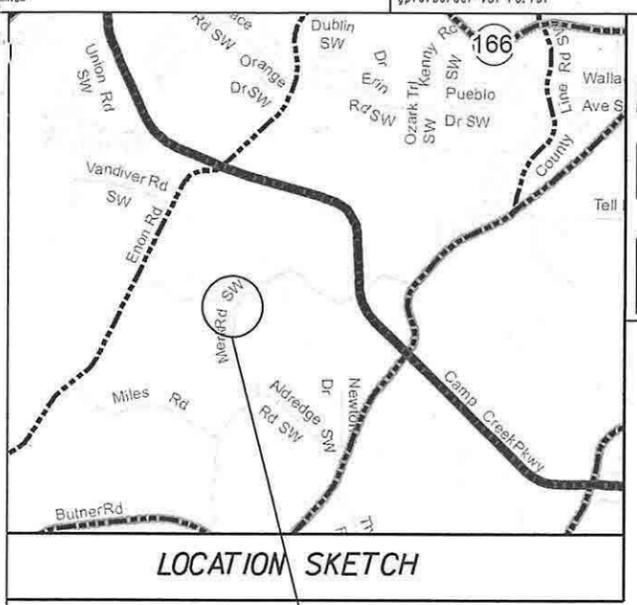


# FULTON COUNTY FACILITIES & TRANSPORTATION SERVICES DEPARTMENT

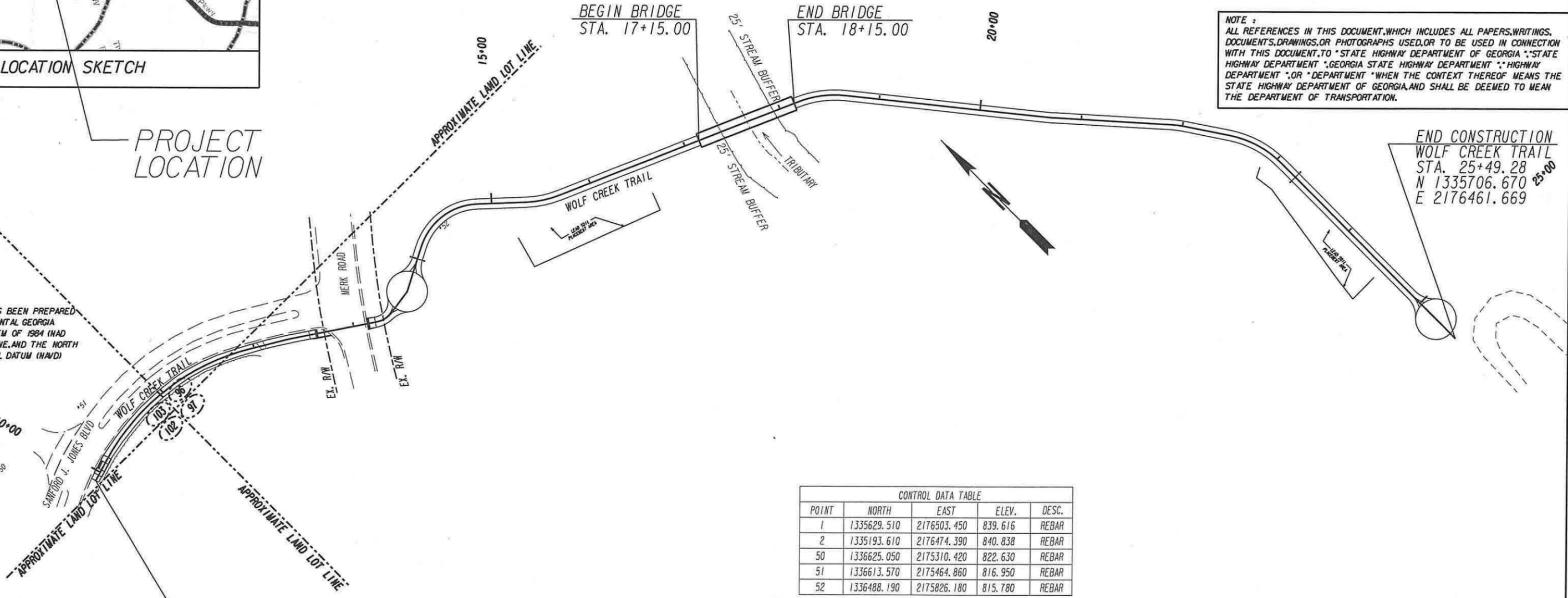
## WOLF CREEK MULTI-USE TRAIL/PEDESTRIAN BRIDGE PROJECT



LOCATION SKETCH

PROJECT LOCATION

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

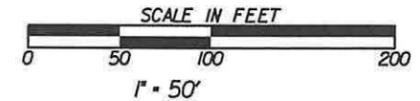


BEGIN CONSTRUCTION  
WOLF CREEK TRAIL  
STA. 9+90.63  
N 1336549.993  
E 2175415.543

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, AND SHALL BE DEEMED TO MEAN THE DEPARTMENT OF TRANSPORTATION.

END CONSTRUCTION  
WOLF CREEK TRAIL  
STA. 25+49.28  
N 1335706.670  
E 2176461.669

POINT	NORTH	EAST	ELEV.	DESC.
1	1335629.510	2176503.450	839.616	REBAR
2	1335193.610	2176474.390	840.838	REBAR
50	1336625.050	2175310.420	822.630	REBAR
51	1336613.570	2175464.860	816.950	REBAR
52	1336488.190	2175826.180	815.780	REBAR



LENGTH OF PROJECT	FULTON COUNTY
	MILES
NET LENGTH OF TRAIL	0.269
NET LENGTH OF BRIDGES	0.019
NET LENGTH OF PROJECT	0.288
NET LENGTH OF EXCEPTIONS	0.007
GROSS LENGTH OF PROJECT	0.295

PLANS PREPARED AND SUBMITTED BY:  
 AMERICAN ENGINEERS, INC.  
 65 Aberdeen Drive, Glasgow, KY 40241, (502) 245-3803  
 654 White Circle, Suite 10, Marietta, GA 30066, (770) 42-8422  
 2500 Nelson Miller Parkway, Louisville, KY 40223, (502) 245-3803  
 DESIGN CONSULTANT PROFESSIONAL ENGINEERING

PLANS COMPLETED 11-22-2013	
REVISIONS	

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY 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 BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.



**GENERAL NOTES:**

1. THE CONTRACTOR SHALL ADHERE TO THE "CALL BEFORE YOU DIG" LAW BY CALLING THE UNDERGROUND PROTECTION CENTER AT 1-800-282-7411 OR 770-623-4344 BEFORE BEGINNING CONSTRUCTION.



Know what's below.  
Call before you dig.

2. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON HIGHWAY 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 HIGHWAY PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY UNDER THIS REQUIREMENT. "EXISTING UTILITY FACILITIES" MEANS ANY LOCATION THAT EXISTS ON THE HIGHWAY PROJECT IN ITS ORIGINAL, RELOCATED, OR NEWLY INSTALLED POSITION.
3. 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.
4. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD AND SUPPLEMENTAL SPECIFICATIONS, CURRENT EDITION.
5. STRUCTURES, TREES, SHRUBS, AND OTHER PLANT MATERIAL THAT FALL WITHIN THE RIGHT-OF-WAY AND EASEMENT LIMITS, BUT OUTSIDE THE LIMITS OF CONSTRUCTION, SHALL NOT BE DISTURBED.
6. AT LOCATIONS WHERE NEW PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING PAVEMENT WITHOUT AN OVERLAY OR WHERE CURBING IS TO BE PLACED, A JOINT SHALL BE SAWED ON A LINE ESTABLISHED IN THE FIELD TO ENSURE PAVEMENT REMOVAL TO A NEAT LINE.
7. ALL CUT AND FILL SLOPES SHALL BE GRASSED IMMEDIATELY AFTER THE SLOPES AND ESTABLISHED IN ORDER TO REDUCE EROSION. ON CUT AND FILL SLOPES STEEPER THAN 3:1 AND GREATER THAN 5 FEET IN HEIGHT SHALL REQUIRE EROSION CONTROL MATTING. IF THE SEASON DOES NOT PERMIT GRASSING, THE STRAW MULCH STABILIZATION SHALL BE USED AS DIRECTED BY THE ENGINEER. REFER TO SECTION 161 OF THE STANDARD SPECIFICATIONS.
8. THE CONTRACTOR SHALL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS INCLUDES, BUT IS NOT LIMITED TO CLEAN OUT, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED, REMOVED OR REGARDED AS REQUIRED BY THE ENGINEER. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
9. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO OR CONCURRENT WITH LAND DISTURBANCE ACTIVITIES AND SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.

**GENERAL NOTES (CONTINUED):**

10. THE CONTRACTOR SHALL STRICTLY ADHERE TO DUST CONTROL REGULATIONS. ALL AREAS SUBJECTED TO DUST FORMATION MUST BE PERIODICALLY WATERED, SUFFICIENTLY TO RETARD DUST. ALL COSTS FOR DUST CONTROL SHALL BE INCLUDED IN PRICE BID FOR GRADING COMPLETE, LUMP SUM.
11. INGRESS AND EGRESS SHALL BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES. REFER TO SUB-SECTION 107.07 OF THE STANDARD SPECIFICATIONS.
12. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH SUITABLE BORROW MATERIAL FOR THE PROJECT AND DISPOSE OF ANY UNSUITABLE OR WASTE MATERIAL.
13. THE CONTRACTOR WILL BE RESPONSIBLE FOR SAFE AND EFFECTIVE VEHICULAR AND PEDESTRIAN TRAFFIC CONTROL.
14. LEAD HANDLING - CONTRACTOR SHALL REMOVE LEAD AS OUTLINED IN SPECIAL PROVISION. PAYMENT IS INCLUDED IN GRADING COMPLETE.
15. UTILITIES:

PLANS PREPARED AND SUBMITTED BY:

<b>AEI</b>	
65 Aberdeen Drive Glasgow, KY 40241 (270) 651-7220	1634 White Circle, Suite 101 Norcross, GA 30092 (770) 421-8422
2500 Nelson Miller Parkway Louisville, KY 40223 (502) 245-3813	
<b>AMERICAN ENGINEERS, INC.</b> www.aei.cc      PROFESSIONAL ENGINEERS	
DESIGN CONSULTANT	

REVISION DATES

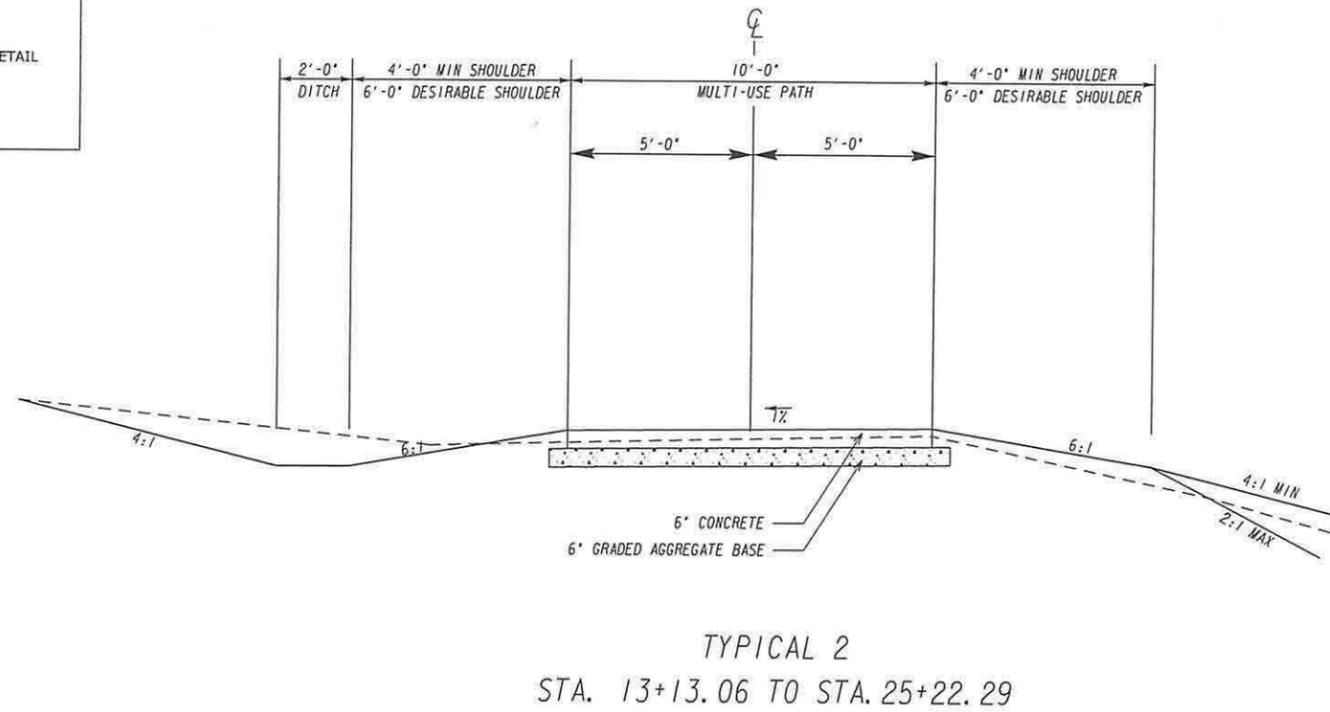
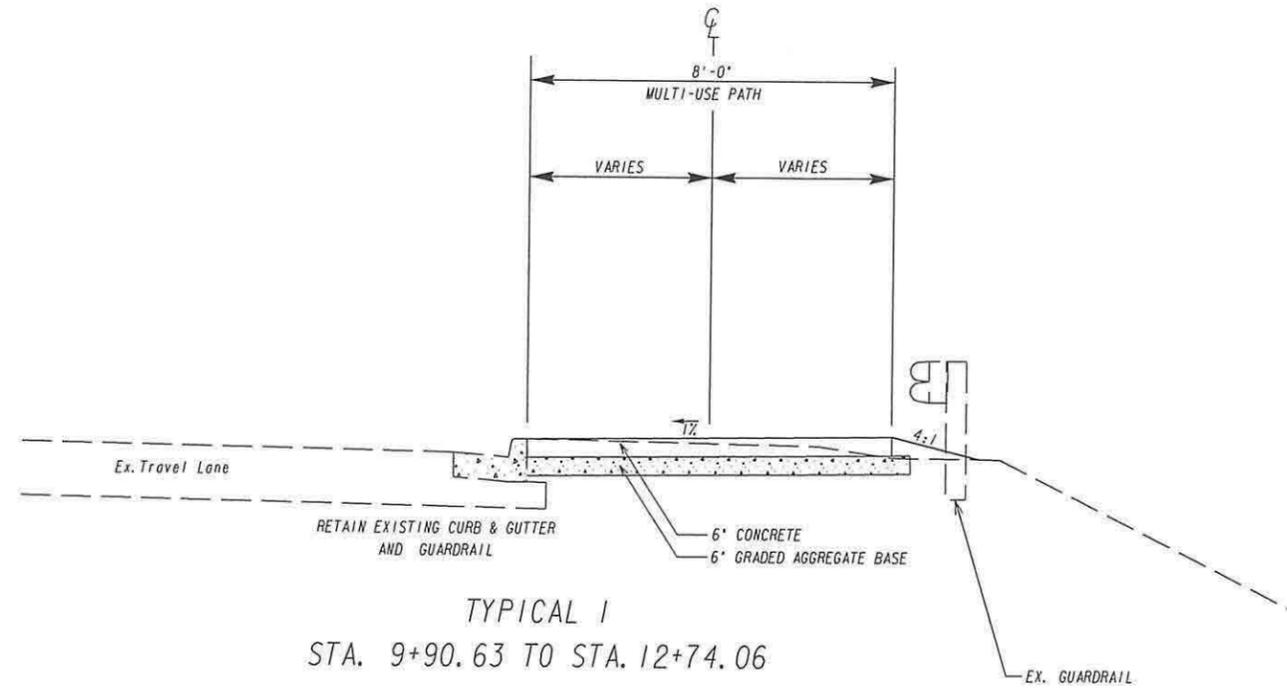
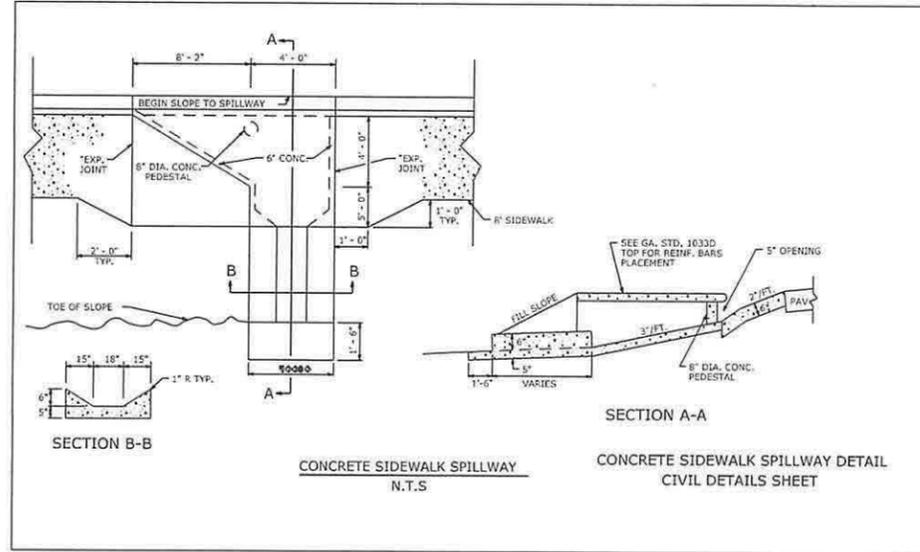

FULTON COUNTY

OFFICE: FACILITIES & TRANSPORTATION SERVICES

**GENERAL NOTES**

WOLF CREEK MULTI-USE TRAIL

DRAWING NO.  
**04-01**



PLANS PREPARED AND SUBMITTED BY:

**AEI**

AMERICAN ENGINEERS, INC.

DESIGN CONSULTANT

PROFESSIONAL ENGINEERING

© 65 Aberdeen Drive  
 Glasgow, KY 42048  
 (270) 651-7200

© 654 White Circle, Suite 101  
 Morletta, CA 95066  
 (770) 421-5422

© 2500 Nelson Minter Parkway  
 Louisville, KY 40223  
 (502) 245-3813

www.aei.com

NOT TO SCALE

REVISION DATES		

FULTON COUNTY

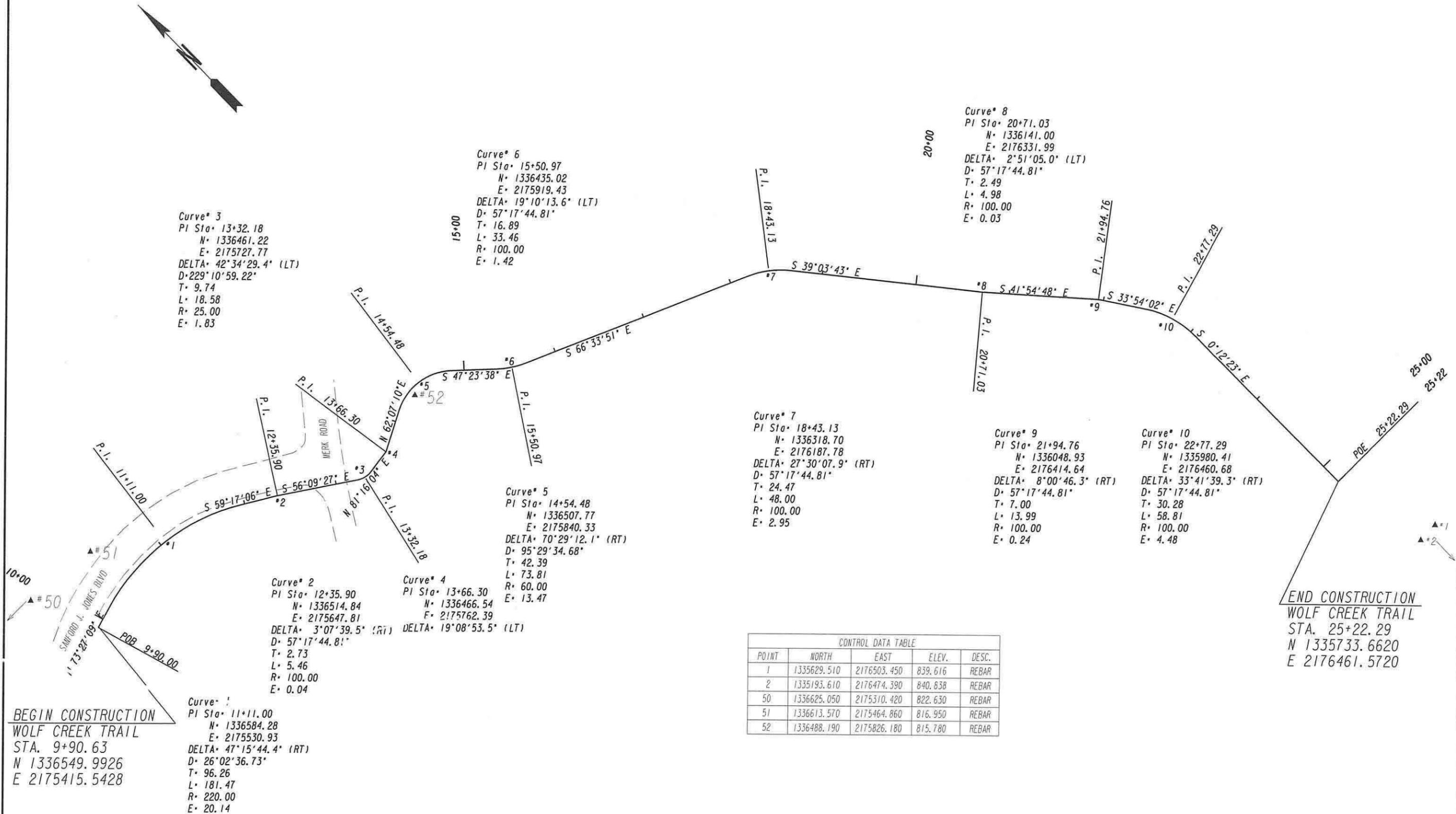
OFFICE: FACILITIES & TRANSPORTATION SERVICES

**TYPICAL SECTIONS**

WOLF CREEK MULTI-USE TRAIL

DRAWING No.  
**05-01**





CONTROL DATA TABLE

POINT	NORTH	EAST	ELEV.	DESC.
1	1335629.510	2176503.450	839.616	REBAR
2	1335193.610	2176474.390	840.638	REBAR
50	1336625.050	2175310.420	822.630	REBAR
51	1336613.570	2175464.860	816.950	REBAR
52	1336488.190	2175826.180	815.780	REBAR

BEGIN CONSTRUCTION  
WOLF CREEK TRAIL  
STA. 9+90.63  
N 1336549.9926  
E 2175415.5428

END CONSTRUCTION  
WOLF CREEK TRAIL  
STA. 25+22.29  
N 1335733.6620  
E 2176461.5720

PLANS PREPARED AND SUBMITTED BY:

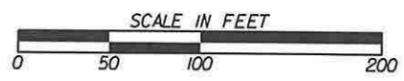
**AEI**  
AMERICAN ENGINEERS, INC.  
DESIGN CONSULTANT

© ES Aberdeen Drive  
Gospow, KY 42044  
(270) 651-7220

© 2500 Watson Miller Parkway  
Louisville, KY 40223  
(502) 245-3883  
www.aei.com

© 634 White Circle, Suite 101  
Marietta, GA 30066  
(770) 421-8422

PROFESSIONAL ENGINEERING



REVISION DATES


FULTON COUNTY

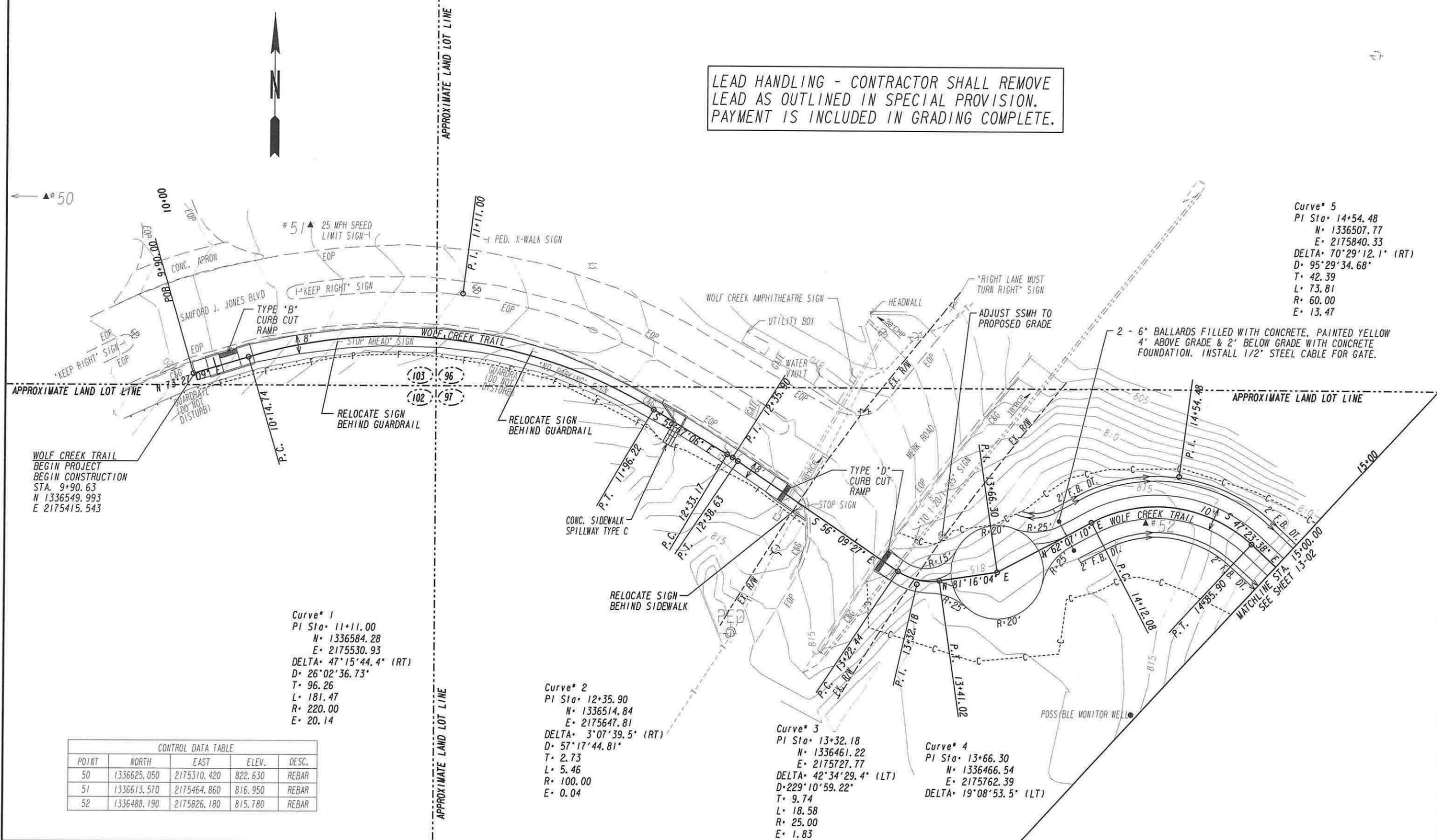
OFFICE: FACILITIES & TRANSPORTATION SERVICES

**CONSTRUCTION LAYOUT**

WOLF CREEK MULTI-USE TRAIL

DRAWING No. 11-01

LEAD HANDLING - CONTRACTOR SHALL REMOVE LEAD AS OUTLINED IN SPECIAL PROVISION. PAYMENT IS INCLUDED IN GRADING COMPLETE.



Curve\* 5  
 PI Sta\* 14+54.48  
 N\* 1336507.77  
 E\* 2175840.33  
 DELTA\* 70°29'12.1" (RT)  
 D\* 95°29'34.68"  
 T\* 42.39  
 L\* 73.81  
 R\* 60.00  
 E\* 13.47

2 - 6" BALLARDS FILLED WITH CONCRETE, PAINTED YELLOW 4' ABOVE GRADE & 2' BELOW GRADE WITH CONCRETE FOUNDATION. INSTALL 1/2" STEEL CABLE FOR GATE.

WOLF CREEK TRAIL  
 BEGIN PROJECT  
 BEGIN CONSTRUCTION  
 STA. 9+90.63  
 N 1336549.993  
 E 2175415.543

Curve\* 1  
 PI Sta\* 11+11.00  
 N\* 1336584.28  
 E\* 2175530.93  
 DELTA\* 47°15'44.4" (RT)  
 D\* 26°02'36.73"  
 T\* 96.26  
 L\* 181.47  
 R\* 220.00  
 E\* 20.14

Curve\* 2  
 PI Sta\* 12+35.90  
 N\* 1336514.84  
 E\* 2175647.81  
 DELTA\* 3°07'39.5" (RT)  
 D\* 57°17'44.81"  
 T\* 2.73  
 L\* 5.46  
 R\* 100.00  
 E\* 0.04

Curve\* 3  
 PI Sta\* 13+32.18  
 N\* 1336461.22  
 E\* 2175727.77  
 DELTA\* 42°34'29.4" (LT)  
 D\* 229°10'59.22"  
 T\* 9.74  
 L\* 18.58  
 R\* 25.00  
 E\* 1.83

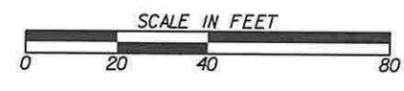
Curve\* 4  
 PI Sta\* 13+66.30  
 N\* 1336466.54  
 E\* 2175762.39  
 DELTA\* 19°08'53.5" (LT)

POINT	NORTH	EAST	ELEV.	DESC.
50	1336625.050	2175310.420	822.630	REBAR
51	1336613.570	2175464.860	816.950	REBAR
52	1336488.190	2175826.180	815.780	REBAR

PROPERTY AND EXISTING R/W LINE  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR  
 & MAINTENANCE OF SLOPES  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES

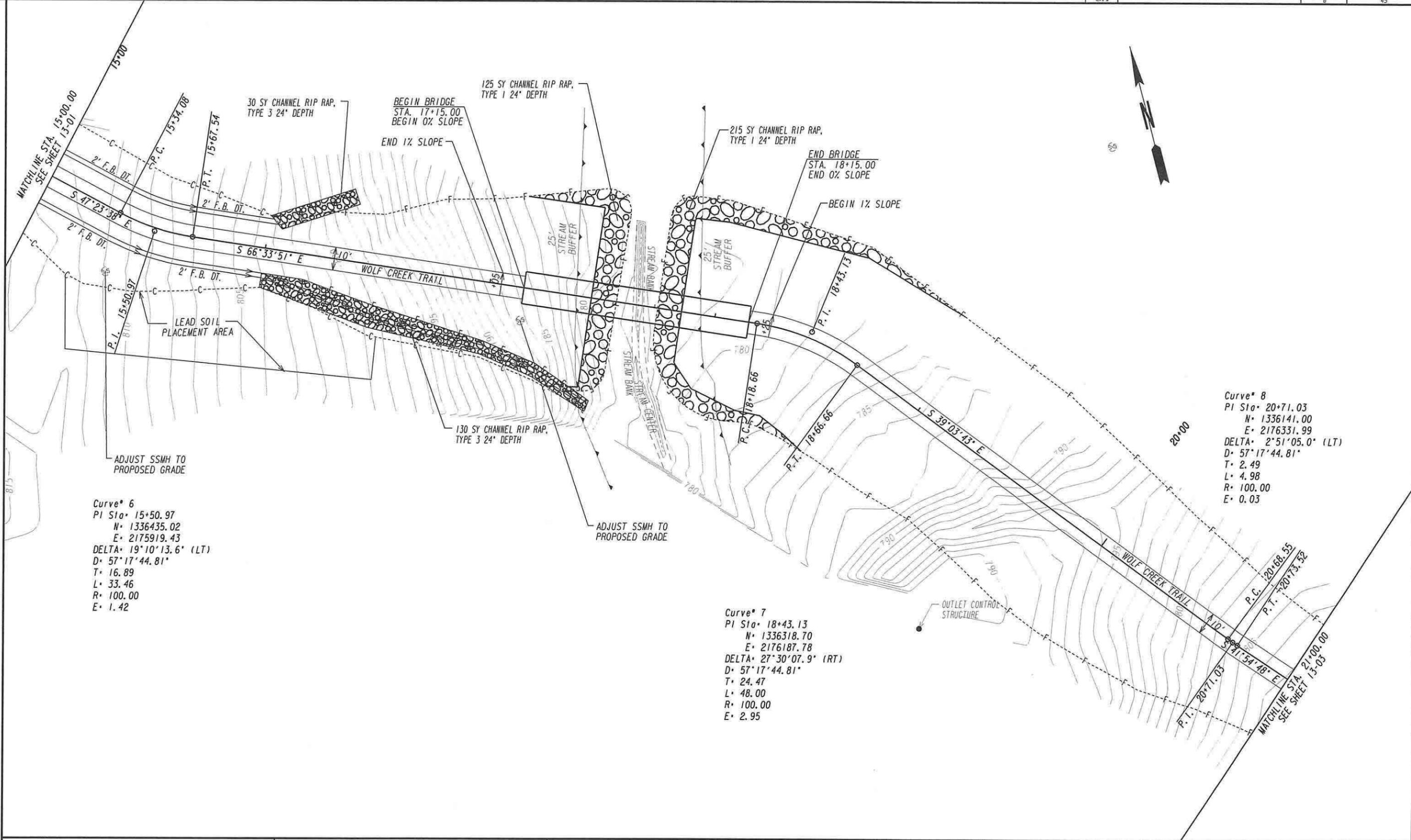
BEGIN LIMIT OF ACCESS.....BLA  
 END LIMIT OF ACCESS.....ELA  
 LIMIT OF ACCESS  
 REQ'D R/W & LIMIT OF ACCESS

PLANS PREPARED AND SUBMITTED BY:  
 American Engineers, Inc.  
 PROFESSIONAL ENGINEERING  
 DESIGN CONSULTANT



NO.	DATE	DESCRIPTION

FULTON COUNTY  
 OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**MAINLINE PLAN**  
 WOLF CREEK MULTI-USE TRAIL  
 DRAWING No. 13-01



Curve\* 6  
 PI Sta\* 15+50.97  
 N\* 1336435.02  
 E\* 2175919.43  
 DELTA\* 19°10'13.6" (LT)  
 D\* 57°17'44.81"  
 T\* 16.89  
 L\* 33.46  
 R\* 100.00  
 E\* 1.42

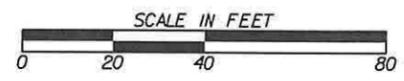
Curve\* 8  
 PI Sta\* 20+71.03  
 N\* 1336141.00  
 E\* 2176331.99  
 DELTA\* 2°51'05.0" (LT)  
 D\* 57°17'44.81"  
 T\* 2.49  
 L\* 4.98  
 R\* 100.00  
 E\* 0.03

Curve\* 7  
 PI Sta\* 18+43.13  
 N\* 1336318.70  
 E\* 2176187.78  
 DELTA\* 27°30'07.9" (RT)  
 D\* 57°17'44.81"  
 T\* 24.47  
 L\* 48.00  
 R\* 100.00  
 E\* 2.95

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	---/---
EASEMENT FOR CONSTR OF SLOPES	---/---
EASEMENT FOR CONSTR OF DRIVES	---/---

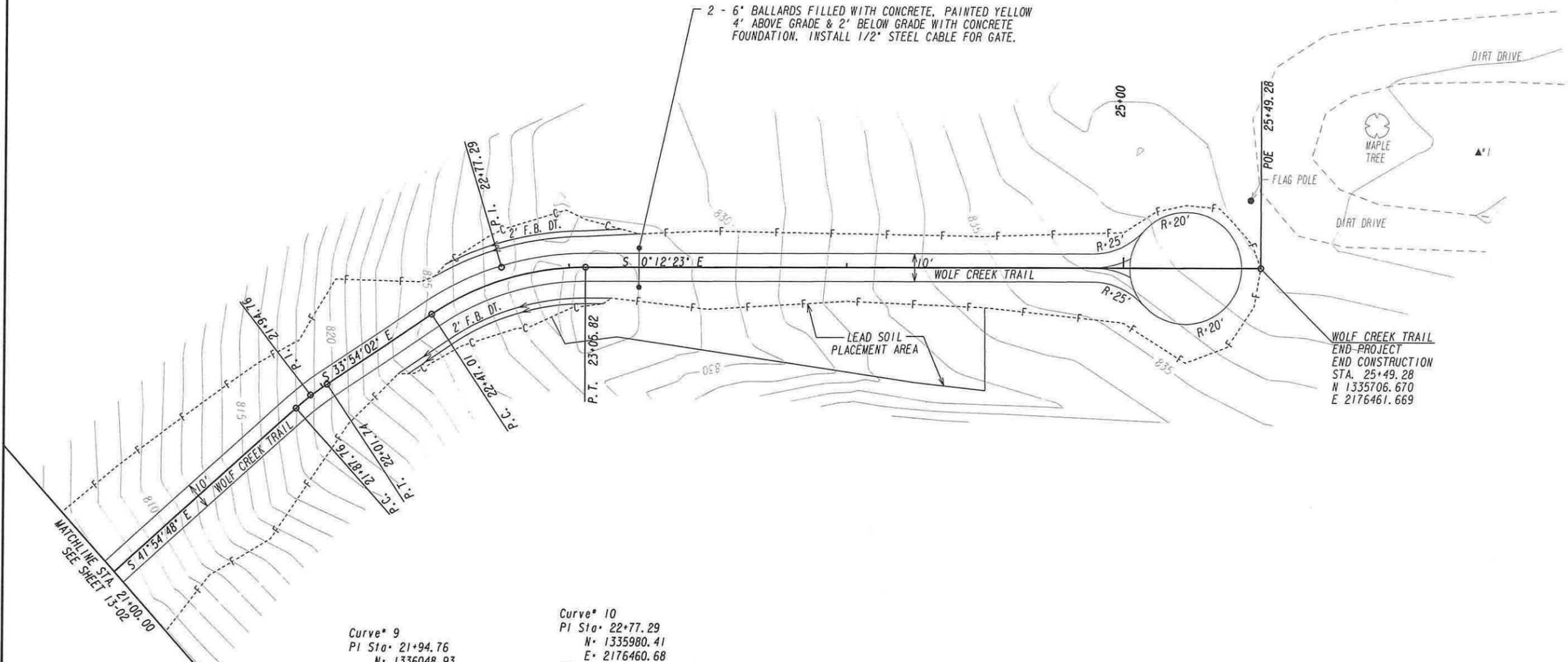
BEGIN LIMIT OF ACCESS.....BLA  
 END LIMIT OF ACCESS.....ELA  
 LIMIT OF ACCESS  
 REQ'D R/W & LIMIT OF ACCESS

PLANS PREPARED AND SUBMITTED BY:  
 American Engineers, Inc.  
 65 Aberdeen Drive Glasgow, KY 42046 (502) 651-7220  
 634 White Circle, Suite 101 Marietta, GA 30066 (770) 421-8422  
 2500 Nelson Miller Parkway Louisville, KY 40223 (502) 245-3813  
 AMERICAN ENGINEERS, INC.  
 DESIGN CONSULTANT PROFESSIONAL ENGINEERING



REVISION DATES

FULTON COUNTY  
 OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**MAINLINE PLAN**  
 WOLF CREEK MULTI-USE TRAIL  
 DRAWING No. 13-02

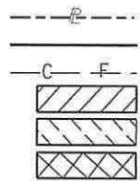


Curve\* 9  
 PI Sta\* 21+94.76  
 N\* 1336048.93  
 E\* 2176414.64  
 DELTA\* 8°00'46.3" (RT)  
 D\* 57°17'44.81"  
 T\* 7.00  
 L\* 13.99  
 R\* 100.00  
 E\* 0.24

Curve\* 10  
 PI Sta\* 22+77.29  
 N\* 1335980.41  
 E\* 2176460.68  
 DELTA\* 33°41'39.3" (RT)  
 D\* 57°17'44.81"  
 T\* 30.28  
 L\* 58.81  
 R\* 100.00  
 E\* 4.48

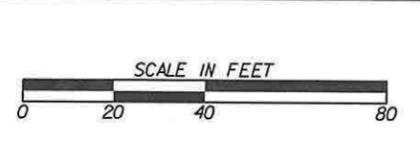
POINT	NORTH	EAST	ELEV.	DESC.
1	1335629.510	2176503.450	839.616	REBAR
2	1335193.610	2176474.390	840.838	REBAR

PROPERTY AND EXISTING R/W LINE  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR  
 & MAINTENANCE OF SLOPES  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES



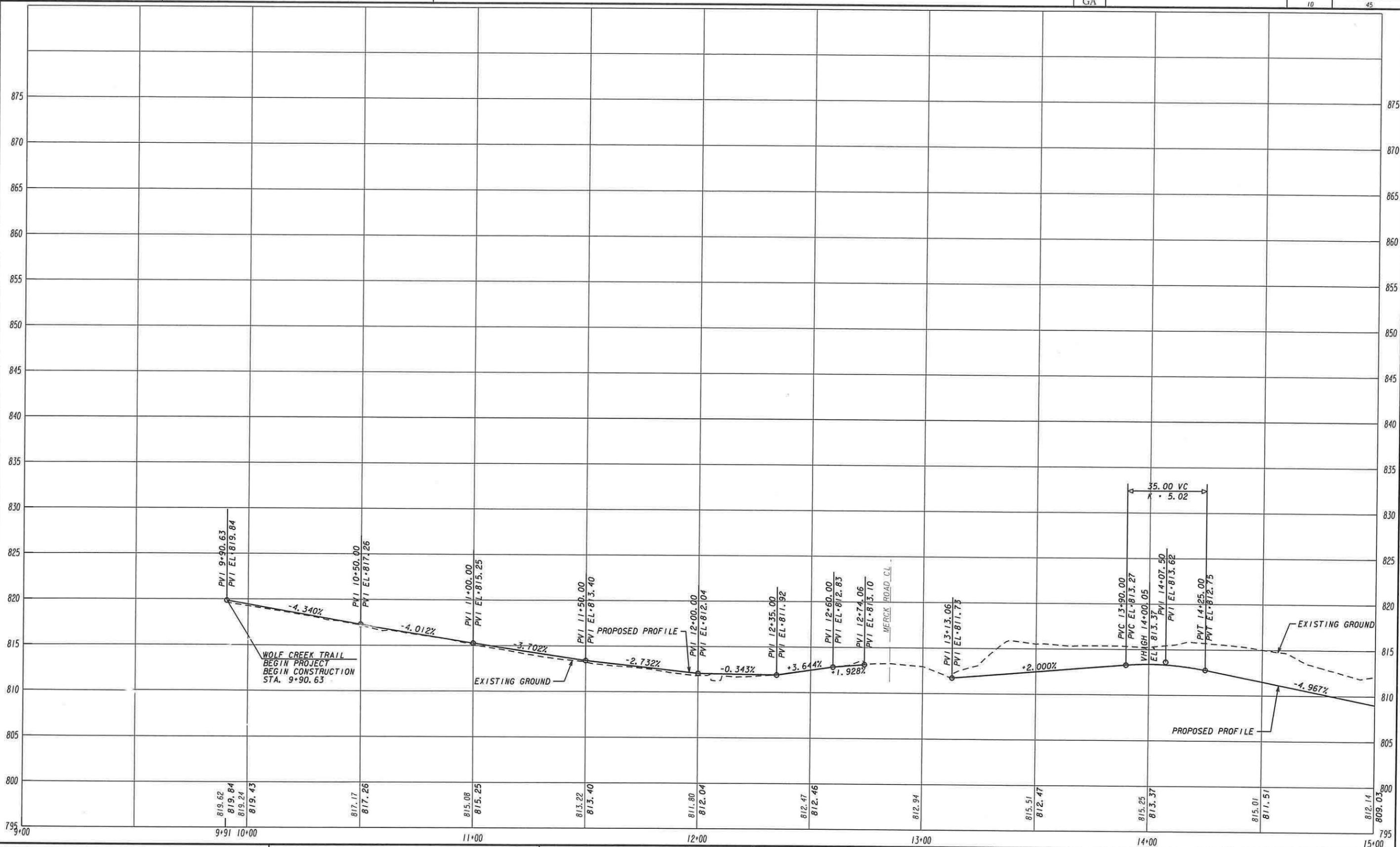
BEGIN LIMIT OF ACCESS.....BLA  
 END LIMIT OF ACCESS.....ELA  
 LIMIT OF ACCESS  
 REQ'D R/W & LIMIT OF ACCESS

PLANS PREPARED AND SUBMITTED BY:  
  
 AMERICAN ENGINEERS, INC.  
 DESIGN CONSULTANT  
 PROFESSIONAL ENGINEERING



NO.	DATE	DESCRIPTION

FULTON COUNTY  
 OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**MAINLINE PLAN**  
 WOLF CREEK MULTI-USE TRAIL  
 DRAWING No. 13-03



PLANS PREPARED AND SUBMITTED BY:

**AEI**  
AMERICAN ENGINEERS, INC.  
DESIGN CONSULTANT

© 65 Aberdeen Drive  
Glasgow, KY 42041  
(270) 651-7220

© 2500 Nelson Miter Parkway  
Louisville, KY 40223  
(502) 245-3813

© 1634 White Circle, Suite 101  
Marietta, GA 30066  
(770) 421-8422

PROFESSIONAL ENGINEERING

1" = 20' HORIZONTAL  
1" = 5' VERTICAL

REVISION DATES	

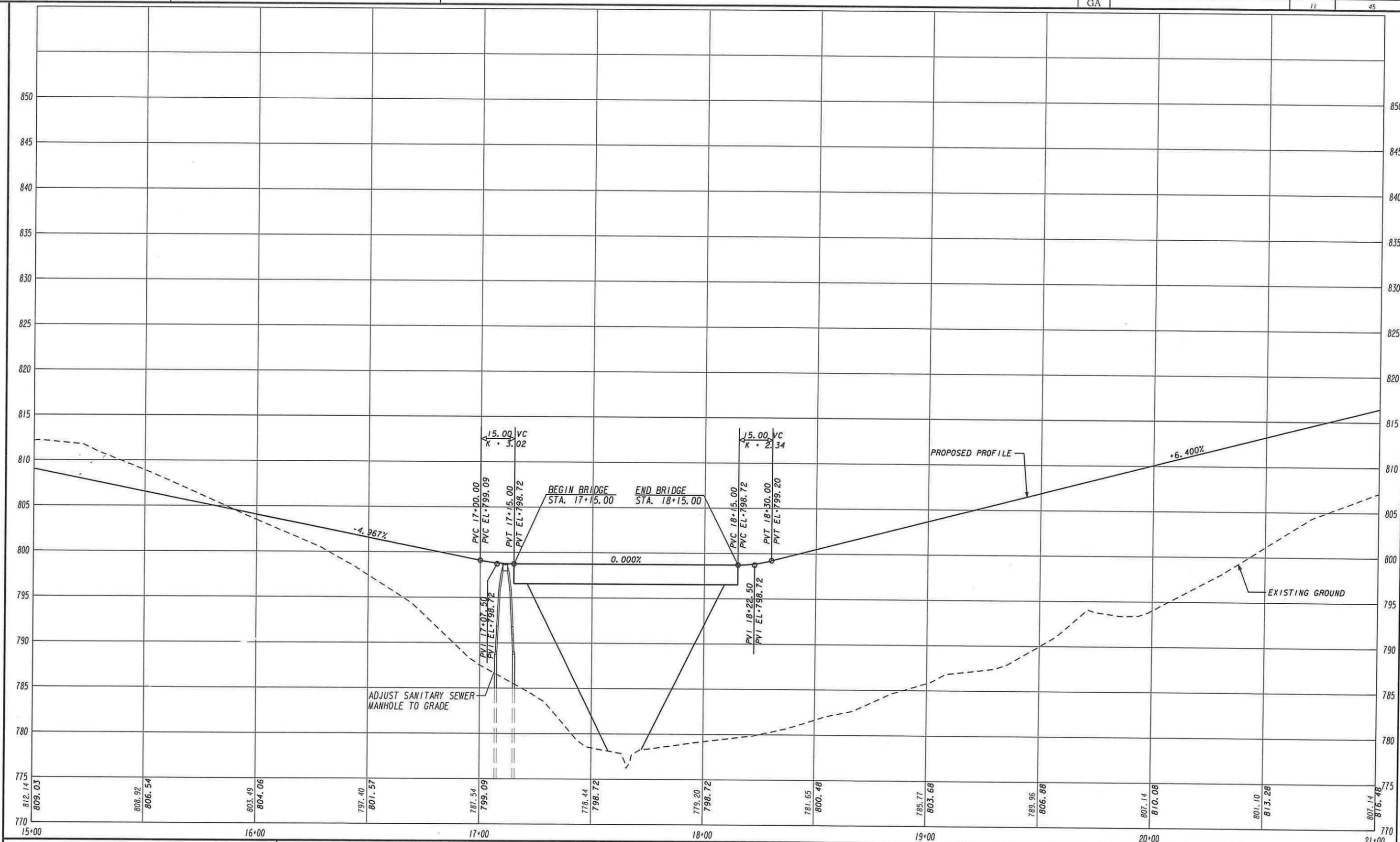
FULTON COUNTY

OFFICE: FACILITIES & TRANSPORTATION SERVICES

**MAINLINE PROFILE**

WOLF CREEK MULTI-USE TRAIL

DRAWING No.  
**15-01**



812.14 809.03	808.92 806.54	803.49 804.06	797.40 801.57	787.54 799.09	778.44 798.72	779.20 798.72	781.65 800.48	785.77 803.68	789.96 806.88	807.14 810.08	801.10 813.28	807.14 815.48
------------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------

PLANS PREPARED AND SUBMITTED BY:

**AEI**  
AMERICAN ENGINEERS, INC.

65 Aberdeen Drive  
Glasgow, KY 42041  
(270) 651-7220

2500 Nelson Miter Parkway  
Louisville, KY 40223  
(502) 245-3813

634 White Circle, Suite 101  
Norfolk, VA 23066  
(757) 421-8422

DESIGN CONSULTANT

1" = 20' HORIZONTAL  
1" = 5' VERTICAL

REVISION	DATE	DESCRIPTION

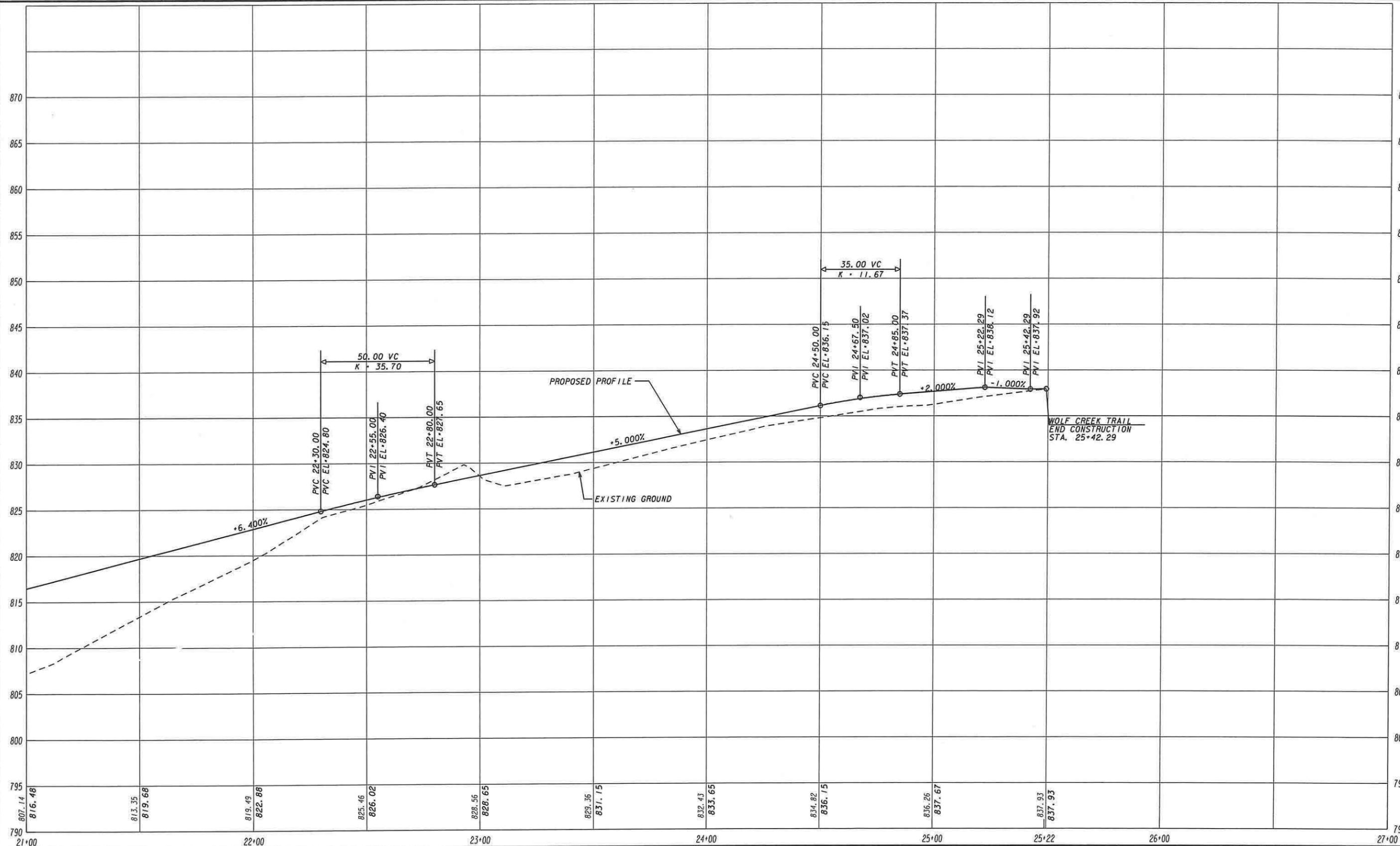
FULTON COUNTY

OFFICE: FACILITIES & TRANSPORTATION SERVICES

**MAINLINE PROFILE**

WOLF CREEK MULTI-USE TRAIL

DRAWING NO. 15-02



PLANS PREPARED AND SUBMITTED BY:

**AEI**  
AMERICAN ENGINEERS, INC.

65 Aberdeen Drive  
Cassopolis, KY 40241  
606-551-1220

1534 White Circle, Suite 101  
Marietta, GA 30066  
770-421-8422

2500 Nelson Miller Parkway  
Louisville, KY 40223  
502-245-3813

DESIGN CONSULTANT PROFESSIONAL ENGINEERING

1" = 20' HORIZONTAL  
1" = 5' VERTICAL

REVISION DATES	

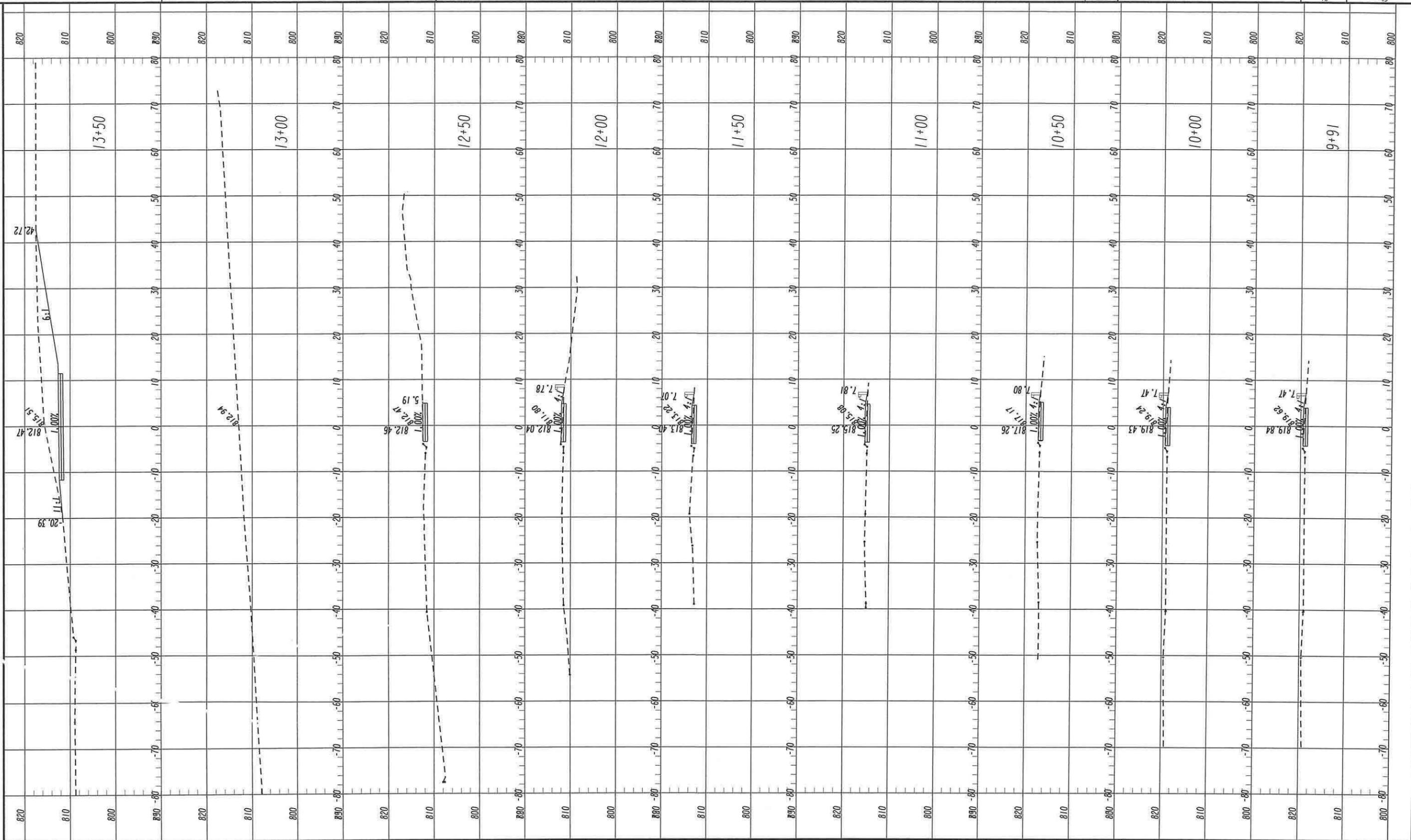
FULTON COUNTY

OFFICE: FACILITIES & TRANSPORTATION SERVICES

**MAINLINE PROFILE**

WOLF CREEK MULTI-USE TRAIL

DRAWING No. 15-03



PLANS PREPARED AND SUBMITTED BY:

**AEI**  
AMERICAN ENGINEERS, INC.  
www.aei.com

DESIGN CONSULTANT

PROFESSIONAL ENGINEERING

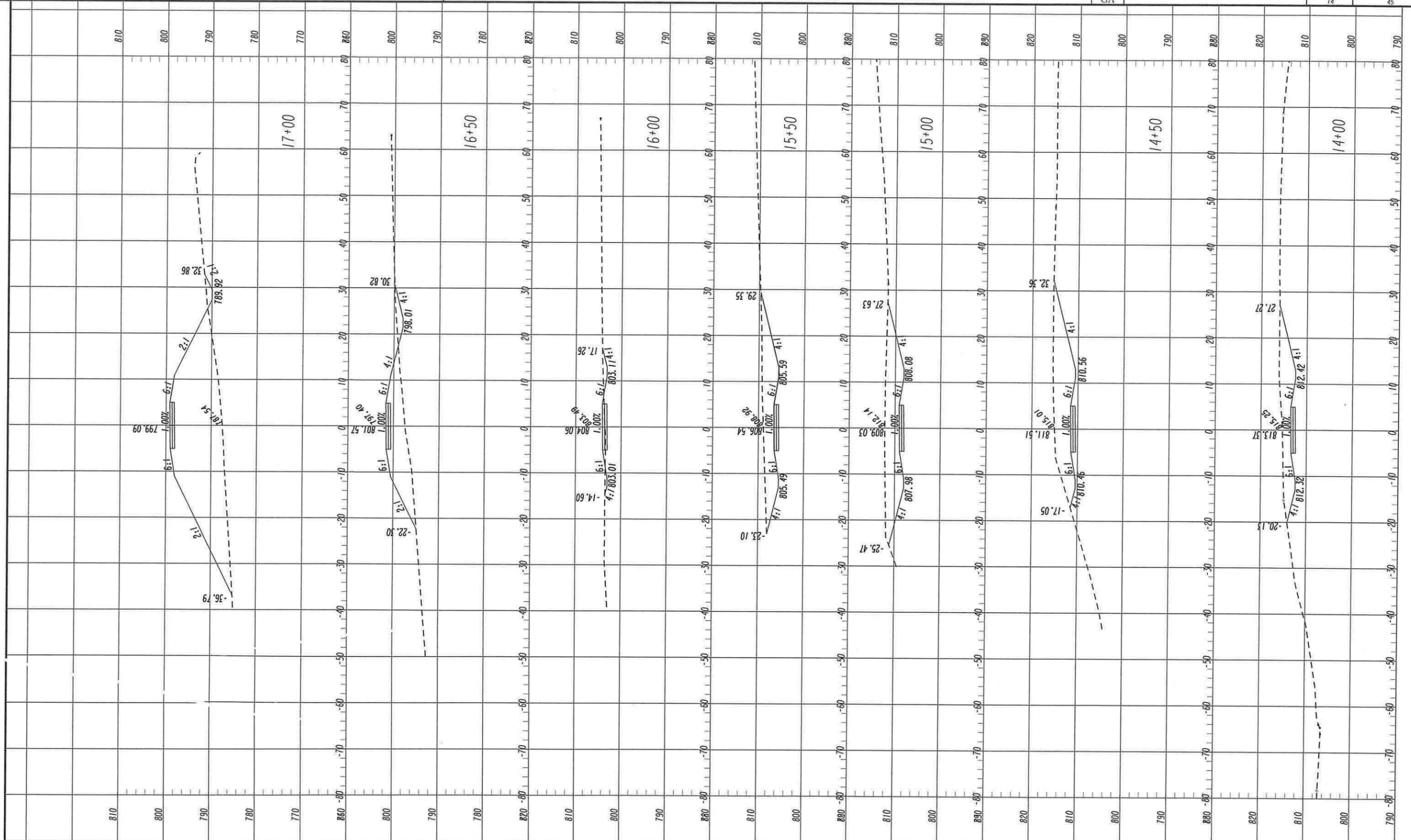
Offices:  
 ● 65 Aberdeen Drive  
Gadsden, KY 42414  
(270) 651-7220  
 ● 634 White Circle, Suite 101  
Warrenton, OR 97146  
(503) 862-8422  
 ● 2500 Nelson Miller Parkway  
Louisville, KY 40223  
(502) 245-5013

1" = 10' HORIZ.  
1" = 10' VERT.

REVISION DATES


FULTON COUNTY  
OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**CROSS SECTIONS**  
WOLF CREEL MULTI-USE TRAIL

DRAWING No.  
**23-01**



PLANS PREPARED AND SUBMITTED BY:

**VEI**  
AMERICAN ENGINEERS, INC.  
www.aei.com

DESIGN CONSULTANT PROFESSIONAL ENGINEERING

65 Aberdeen Drive  
Canaan, VT 02916  
(270) 651-7220

634 White Circle, Suite 101  
Norletta, GA 30554  
(770) 421-8422

2500 Nelson Miller Parkway  
Louisville, KY 40223  
(502) 245-1813

1" = 10' HORIZ.  
1" = 10' VERT.

REVISION DATES

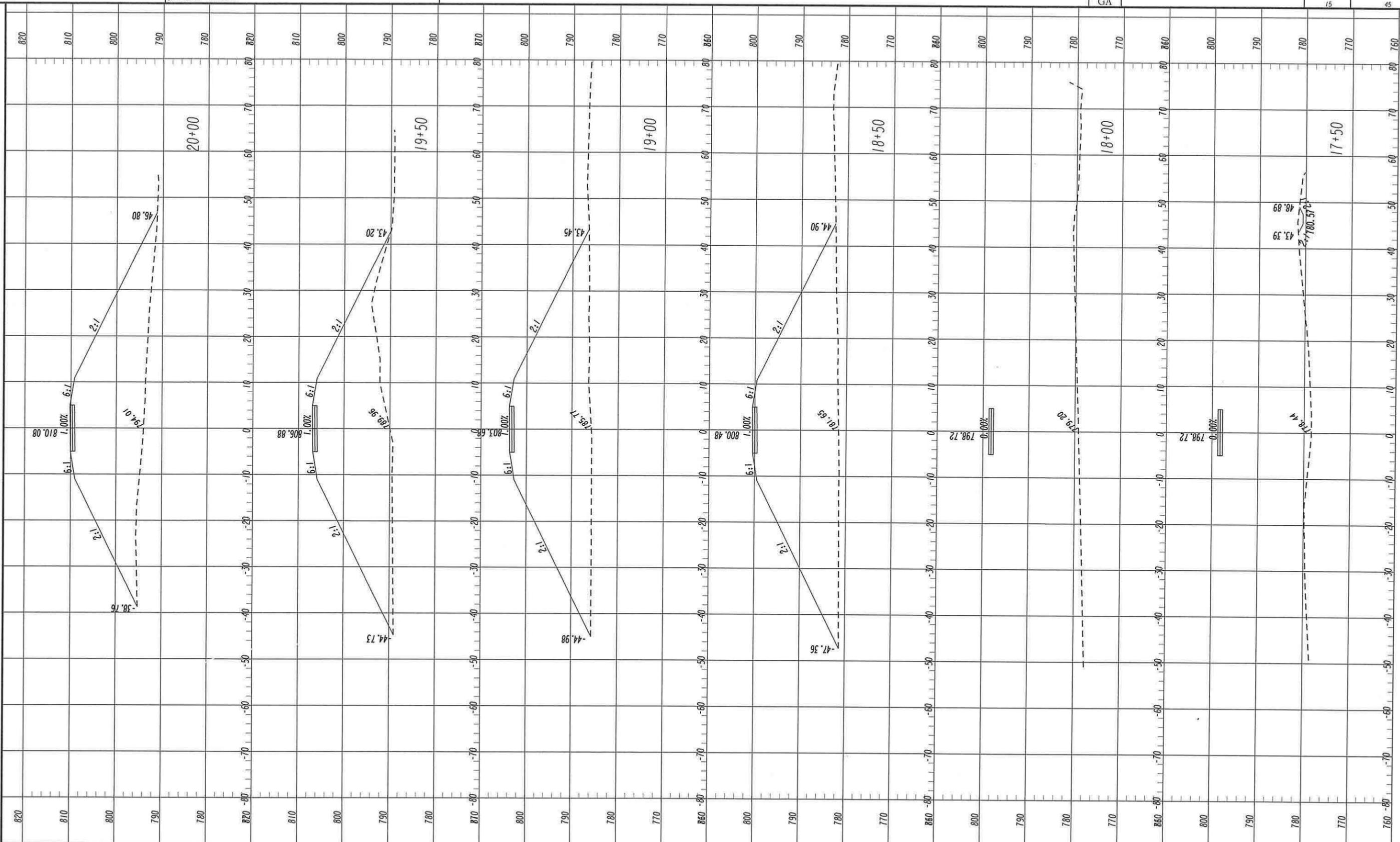
No.	Date	Description

FULTON COUNTY

OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**CROSS SECTIONS**

WOLF CREEK MULTI-USE TRAIL

DRAWING No.  
**23-02**



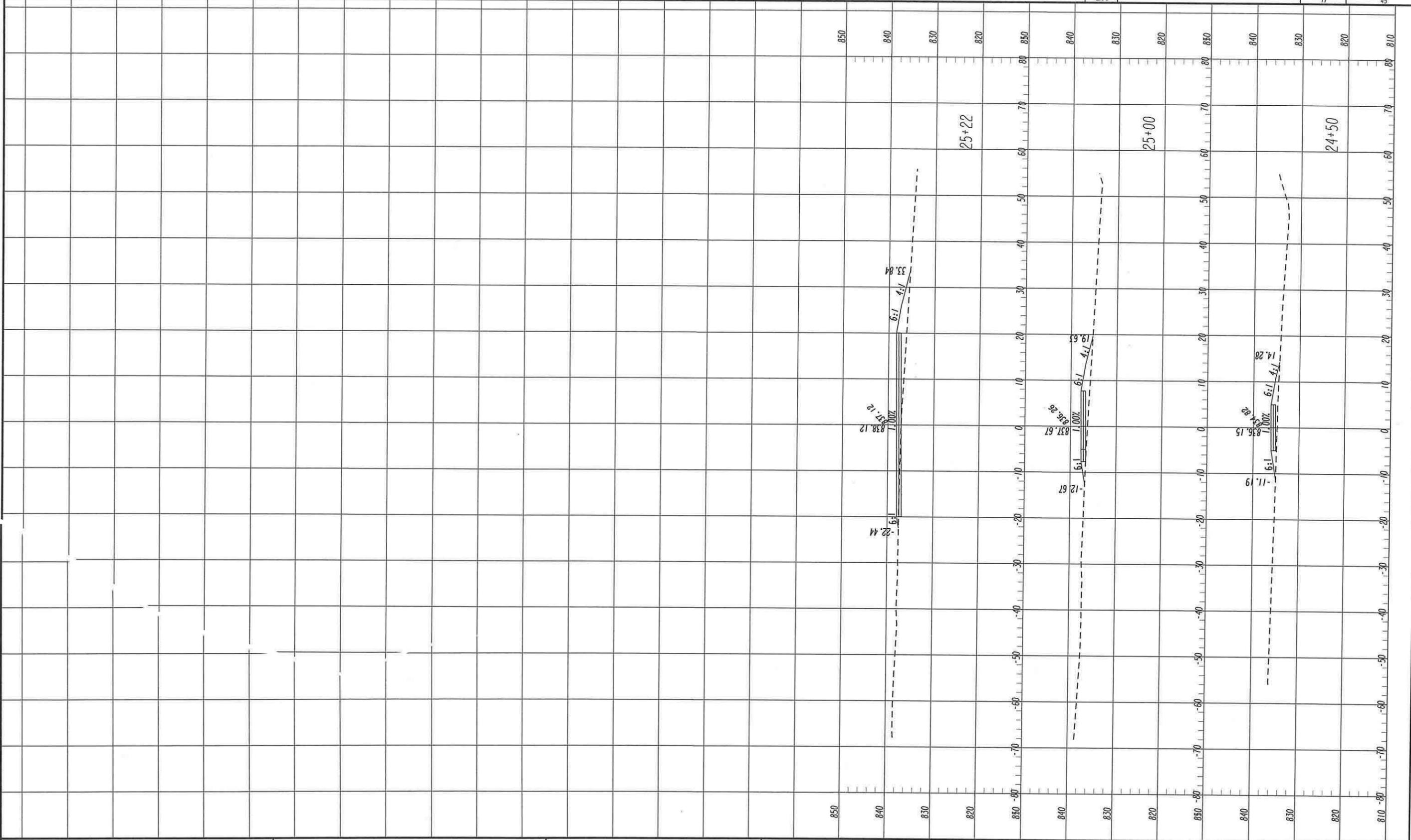
PLANS PREPARED AND SUBMITTED BY:  
*David Orsini*  
 O 65 Aberdeen Drive  
 Glasgow, KY 40304  
 (502) 651-7220  
 O 2500 Nelson Miller Parkway  
 Louisville, KY 40223  
 (502) 243-3833  
**VEI**  
**AMERICAN ENGINEERS, INC.**  
 www.aeicc.com  
 DESIGN CONSULTANT  
 PROFESSIONAL ENGINEERING

1" = 10' HORIZ.  
 1" = 10' VERT.

REVISION DATES

FULTON COUNTY  
 OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**CROSS SECTIONS**  
 WOLF CREEK MULTI-USE TRAIL  
 DRAWING No. 23-03





PLANS PREPARED AND SUBMITTED BY:

**AEI**  
AMERICAN ENGINEERS, INC.  
www.aei.com

Branch Offices:  
 © 65 Aberdeen Drive  
 Georgia, KY 4024  
 (270) 651-7220  
 © 2500 Nelson Miter Parkway  
 Louisville, KY 40223  
 (502) 245-3815  
 © 634 White Circle, Suite 101  
 Naperville, IL 60566  
 (170) 421-8422

DESIGN CONSULTANT      PROFESSIONAL ENGINEERING

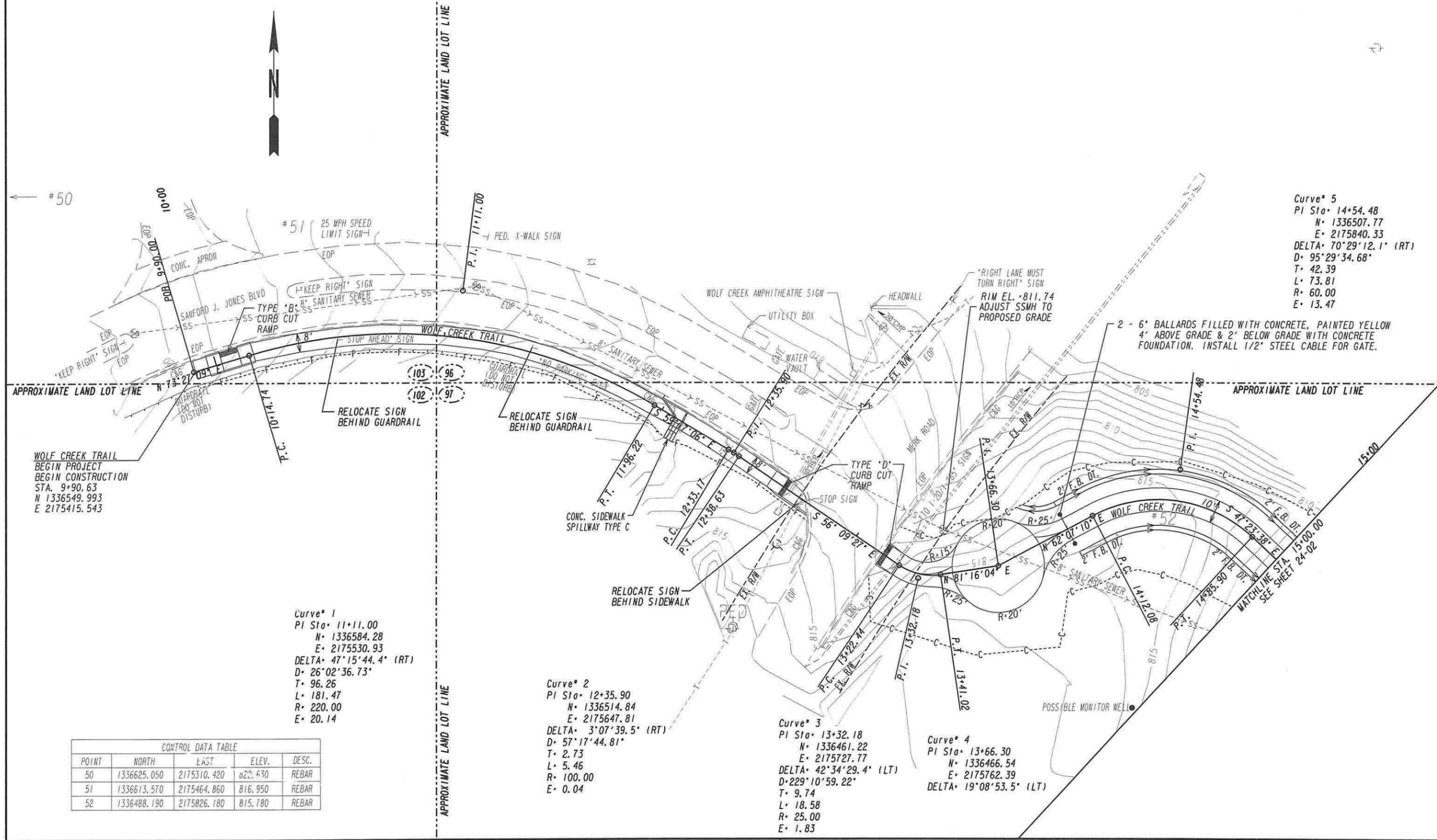
1" = 10' HORIZ.  
1" = 10' VERT.

REVISION DATES

FULTON COUNTY  
OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**CROSS SECTIONS**  
WOLF CREEK MULTI-USE TRAIL

DRAWING No.  
**23-05**





Curve\* 5  
 PI Sta\* 14+54.48  
 N\* 1336507.77  
 E\* 2175840.33  
 DELTA\* 70°29'12.1" (RT)  
 D\* 95°29'34.68"  
 T\* 42.39  
 L\* 73.81  
 R\* 60.00  
 E\* 13.47

Curve\* 1  
 PI Sta\* 11+11.00  
 N\* 1336584.28  
 E\* 2175530.93  
 DELTA\* 47°15'44.4" (RT)  
 D\* 26°02'36.73"  
 T\* 96.26  
 L\* 181.47  
 R\* 220.00  
 E\* 20.14

Curve\* 2  
 PI Sta\* 12+35.90  
 N\* 1336514.84  
 E\* 2175647.81  
 DELTA\* 3°07'39.5" (RT)  
 D\* 57°17'44.81"  
 T\* 2.73  
 L\* 5.46  
 R\* 100.00  
 E\* 0.04

Curve\* 3  
 PI Sta\* 13+32.18  
 N\* 1336461.22  
 E\* 2175727.77  
 DELTA\* 42°34'29.4" (LT)  
 D\* 229°10'59.22"  
 T\* 9.74  
 L\* 18.58  
 R\* 25.00  
 E\* 1.83

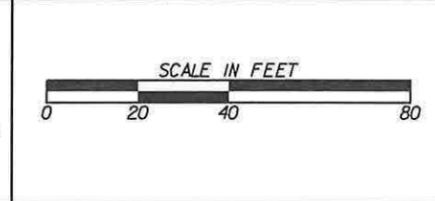
Curve\* 4  
 PI Sta\* 13+66.30  
 N\* 1336466.54  
 E\* 2175762.39  
 DELTA\* 19°08'53.5" (LT)

POINT	NORTH	EAST	ELEV.	DESC.
50	1336625.050	2175310.420	822.630	REBAR
51	1336613.570	2175464.860	816.950	REBAR
52	1336488.190	2175826.180	815.780	REBAR

PROPERTY AND EXISTING R/W LINE  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR  
 & MAINTENANCE OF SLOPES  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES

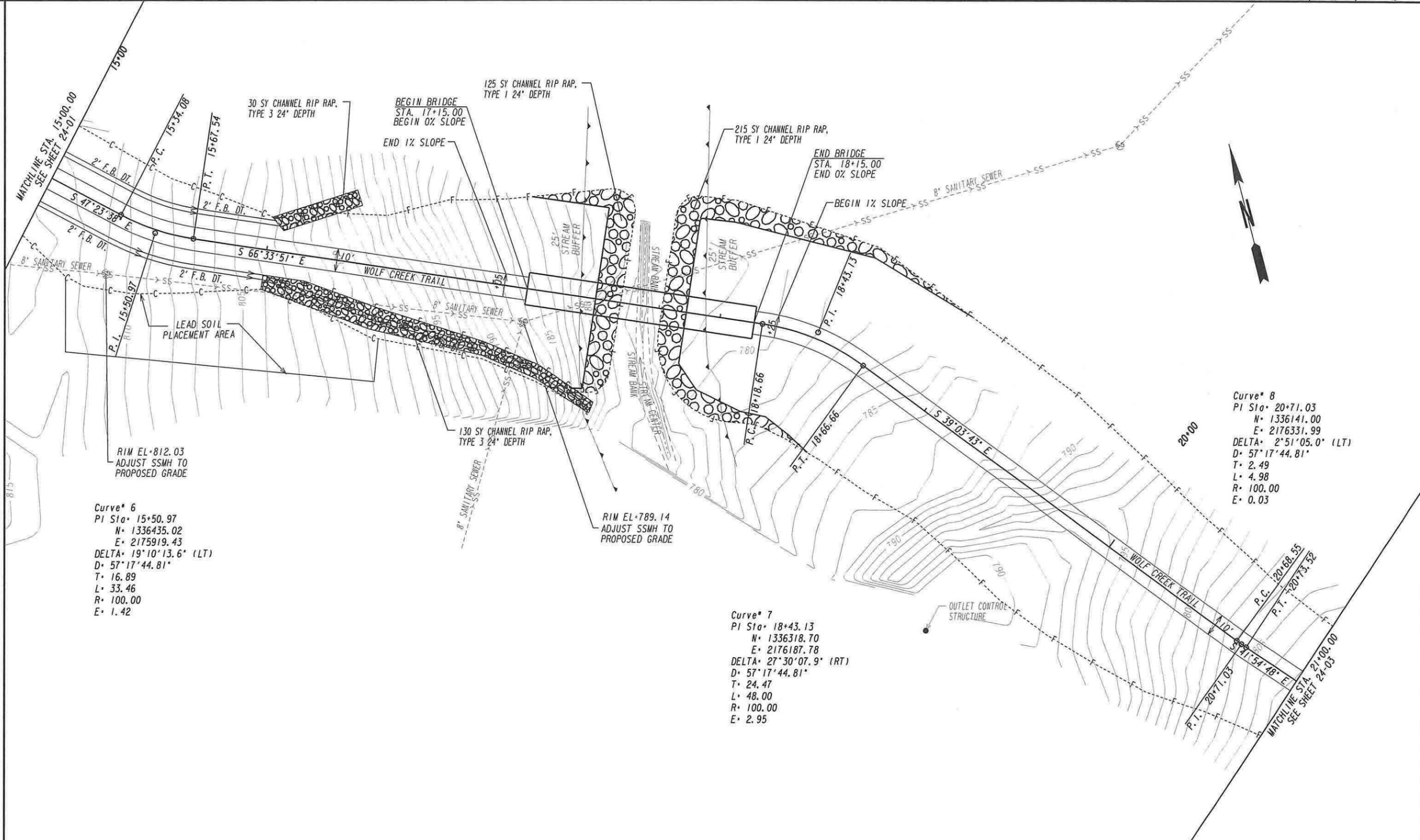
BEGIN LIMIT OF ACCESS.....BLA  
 END LIMIT OF ACCESS.....ELA  
 LIMIT OF ACCESS  
 REQ'D R/W & LIMIT OF ACCESS

PLANS PREPARED AND SUBMITTED BY:  
**AEI**  
 AMERICAN ENGINEERS, INC.  
 PROFESSIONAL ENGINEERING  
 DESIGN CONSULTANT



NO.	DATE	DESCRIPTION

FULTON COUNTY  
 OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**UTILITY PLANS**  
 WOLF CREEK MULTI-USE TRAIL  
 DRAWING NO. 24-01



PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
EASEMENT FOR CONSTR	---
& MAINTENANCE OF SLOPES	---
EASEMENT FOR CONSTR OF SLOPES	---
EASEMENT FOR CONSTR OF DRIVES	---

BEGIN LIMIT OF ACCESS.....BLA	---
END LIMIT OF ACCESS.....ELA	---
LIMIT OF ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---

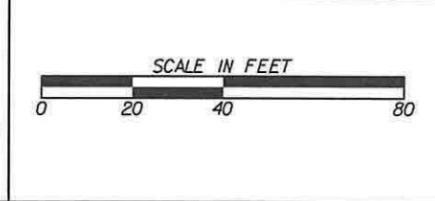
PLANS PREPARED AND SUBMITTED BY:

**AEI**  
 AMERICAN ENGINEERS, INC.  
 PROFESSIONAL ENGINEERING  
 DESIGN CONSULTANT

65 Aberdeen Drive  
 Douglas, KY 42041  
 (502) 651-7200

654 White Circle, Suite 101  
 Marietta, GA 30066  
 (770) 421-8422

2500 Nelson Milar Parkway  
 Louisville, KY 40223  
 (502) 245-3913



REVISION DATES

FULTON COUNTY

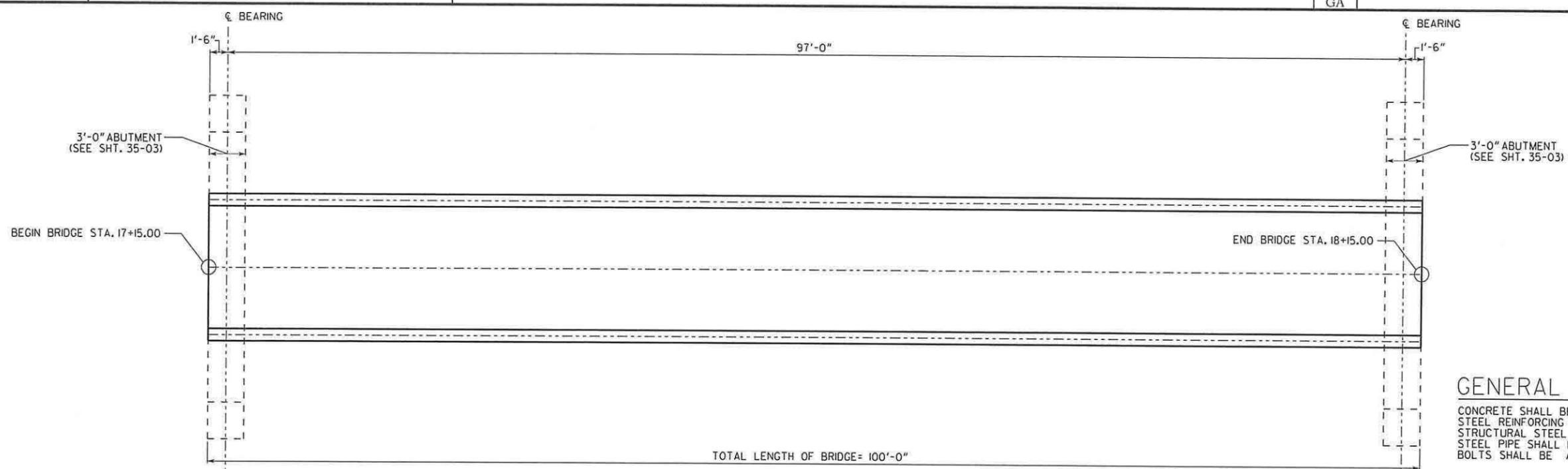
OFFICE: FACILITIES & TRANSPORTATION SERVICES

**UTILITY PLANS**

WOLF CREEK MULTI-USE TRAIL

DRAWING NO. 24-02

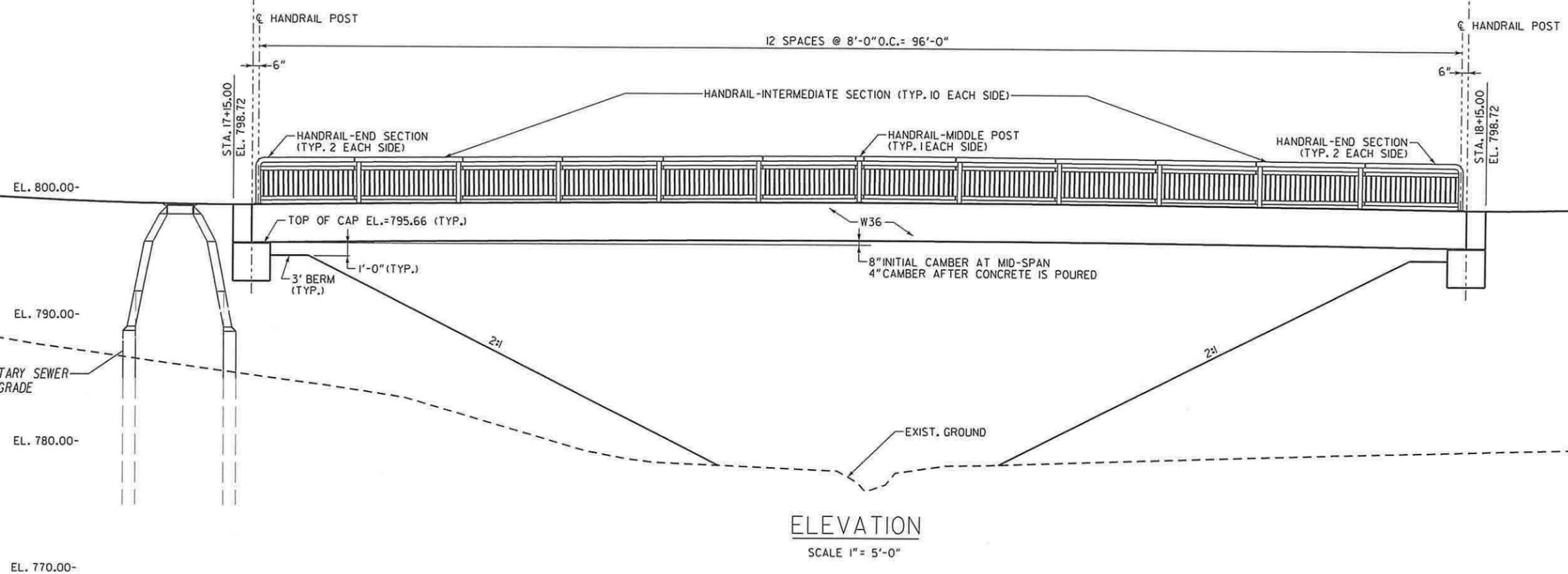




**PLAN**  
SCALE 1" = 5'-0"

**GENERAL NOTES:**  
 CONCRETE SHALL BE 4000PSI MINIMUM  
 STEEL REINFORCING SHALL BE ASTM A615 GR 60  
 STRUCTURAL STEEL SHALL BE ASTM A588 GR 50  
 STEEL PIPE SHALL BE ASTM A847  
 BOLTS SHALL BE ASTM A325 TYPE 3

**DESIGN LIVE LOAD LOADS:**  
 90 PSF OR 20,000 LB TRUCK



**ELEVATION**  
SCALE 1" = 5'-0"

*Kenneth Ott*  
11/21/2013

PLANS PREPARED AND SUBMITTED BY:  
 Branch Office  
 65 Aberdeen Drive  
 Glasgow, KY 42041  
 (270) 651-7220  
 2500 Nelson Miter Parkway  
 Louisville, KY 40223  
 (502) 245-3893  
**AMERICAN ENGINEERS, INC.**  
 www.aei.cc

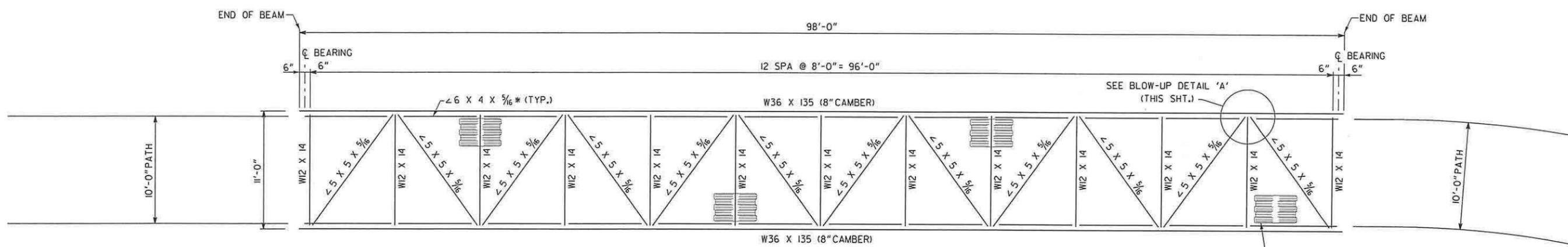
634 White Circle, Suite 101  
 Marietta, GA 30066  
 (770) 421-8422

DESIGN CONSULTANT      PROFESSIONAL ENGINEERING

SCALE: 1" = 5'-0"

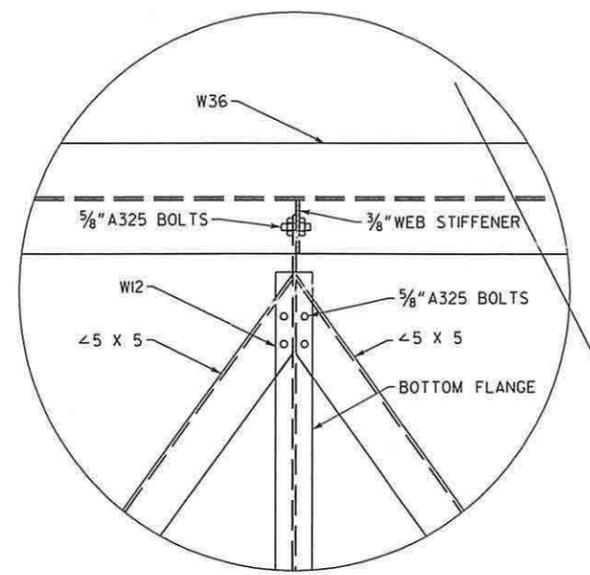
REVISION DATES	

FULTON COUNTY  
 OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**BRIDGE LAYOUT**  
 WOLF CREEK MULTI-USE TRAIL



**FRAMING PLAN**

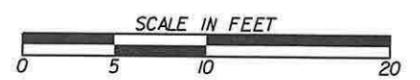
\* CONTRACTOR HAS OPTION TO FABRICATE  
 <math>\angle 6 \times 4</math> IN LONGER LENGTHS OF 8'-0" INCREMENTS



**BLOW-UP DETAIL 'A'**

**METAL DECK FASTENING**

1. SCREWS USED FOR FASTENING DECKING TO W12 BEAMS OR 6X4 ANGLES SHALL BE "TEKS/5 12-24x7/8" HEX. WASHER HEAD SELF-DRILLING FASTENERS OR EQUIVALENT (INCREASE LENGTH AS REQUIRED).
2. SCREWS FOR SIDE LAPS SHALL BE "TEKS/1 12-12x3/4" HEX. WASHER HEAD FASTENERS OR EQUIVALENT.
3. SCREWS FOR END LAPS AND CONNECTION TO W12 BEAMS MAY REQUIRE ADDITIONAL LENGTH. REFER TO MANUFACTURER'S REQUIREMENTS FOR THIS CONDITION. SUBMIT PRODUCT DATA OR SCREWS TO BE USED FOR ENGINEER APPROVAL.
4. SPACING OF SCREWS ALONG SUPPORT MEMBERS SHALL NOT EXCEED 12".
5. SPACING OF SCREWS ALONG SIDE LAPS SHALL NOT EXCEED 24".



PLANS PREPARED AND SUBMITTED BY:

**AEI**  
 AMERICAN ENGINEERS, INC.  
 DESIGN CONSULTANT

Branch Office:  
 65 Aberdeen Drive, Glasgow, KY 40241 (270) 651-7220  
 1634 White Circle, Suite 101, Marietta, GA 30066 (770) 421-8422  
 2500 Nelson Miller Parkway, Louisville, KY 40223 (502) 245-3883

PROFESSIONAL ENGINEERING

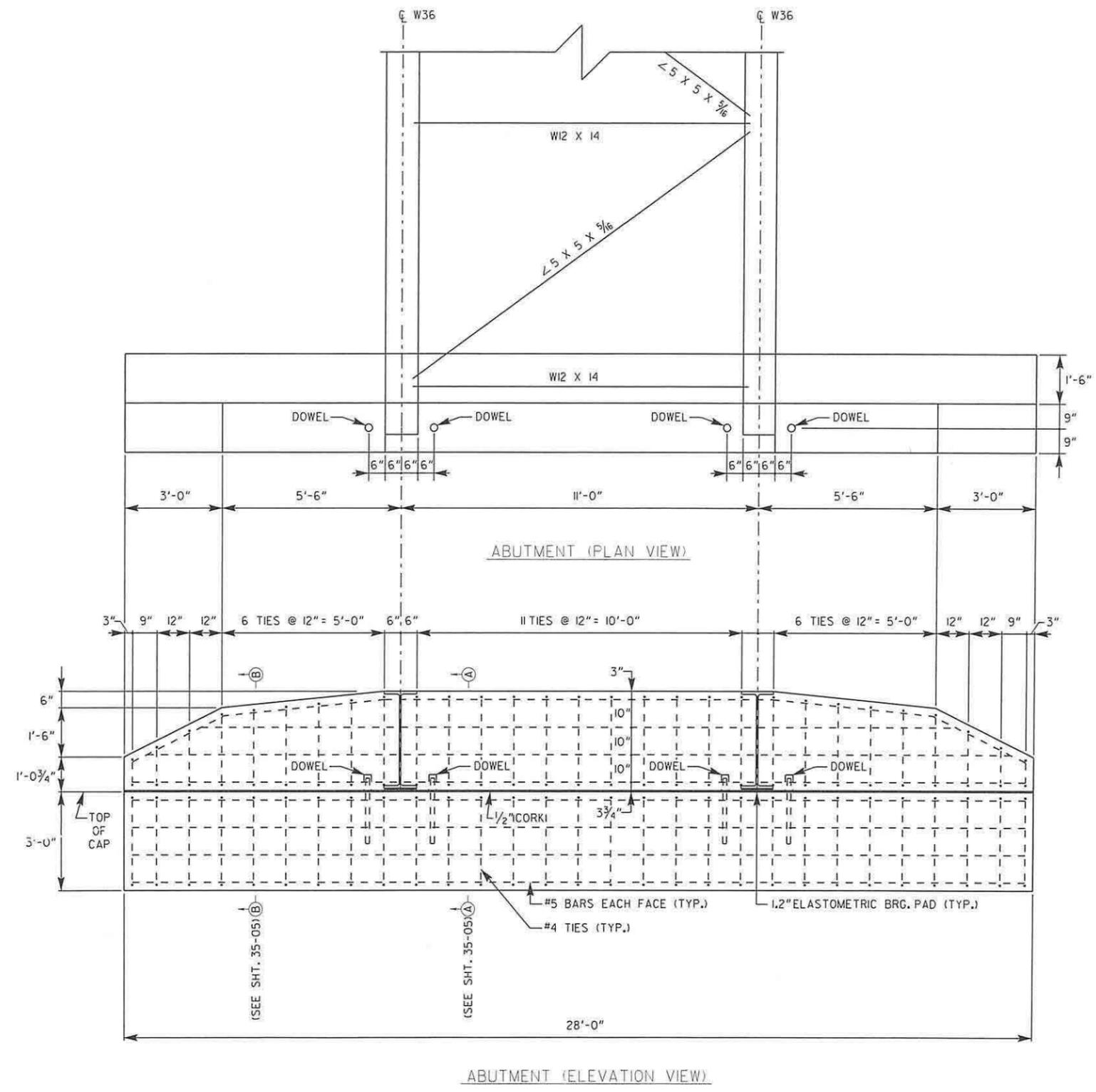
SCALE: 1" = 5'-0"

REVISION DATES	

FULTON COUNTY  
 OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**BRIDGE FRAMING**

WOLF CREEK MULTI-USE TRAIL

DRAWING No. **35-02**



*Kenneth Ott*  
11/21/2013

PLANS PREPARED AND SUBMITTED BY:

**AEI**  
AMERICAN ENGINEERS, INC.

65 Aberdeen Drive  
Dagwood, KY 40241  
(270) 551-7220

534 White Circle, Suite 101  
Marietta, GA 30066  
(770) 421-9422

2500 Nelson Miller Parkway  
Louisville, KY 40223  
(502) 245-3813

DESIGN CONSULTANT

SCALE: 1" = 2'-0"

REVISION DATES

FULTON COUNTY

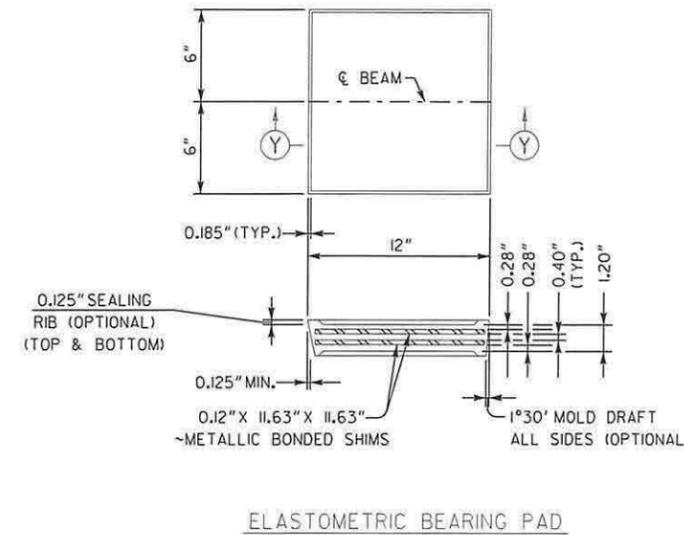
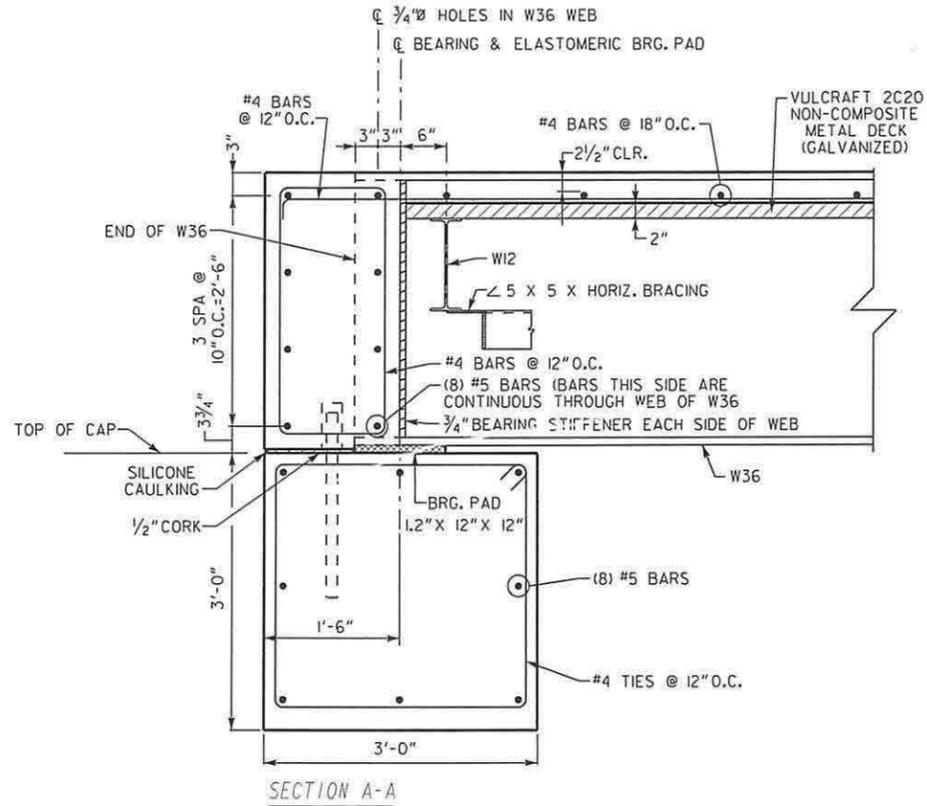
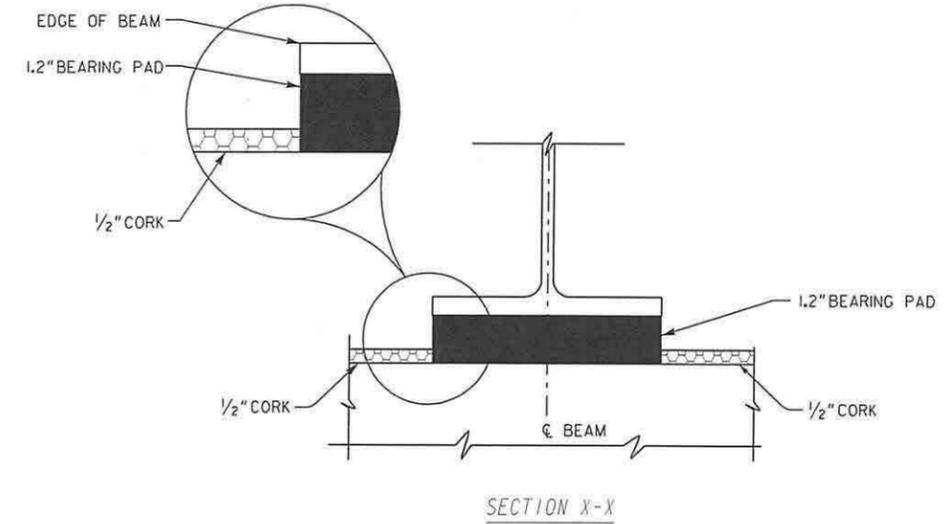
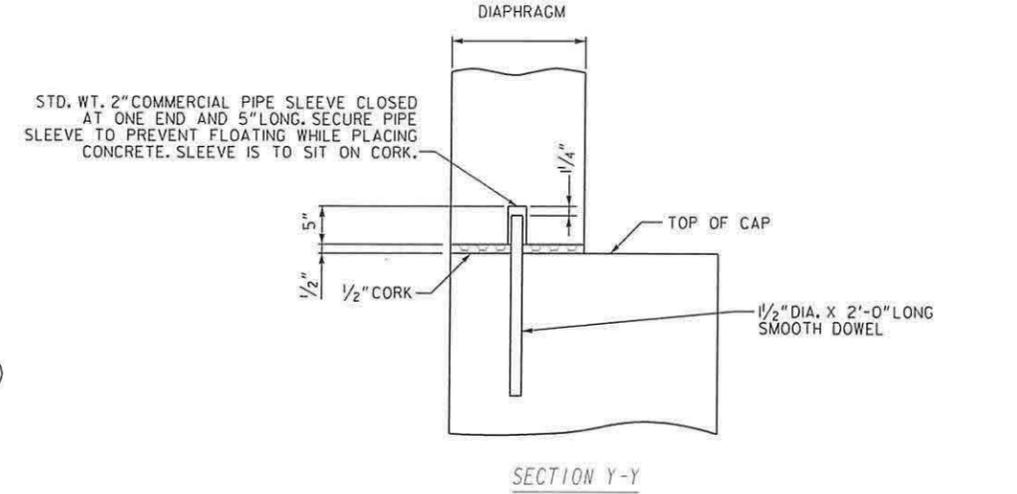
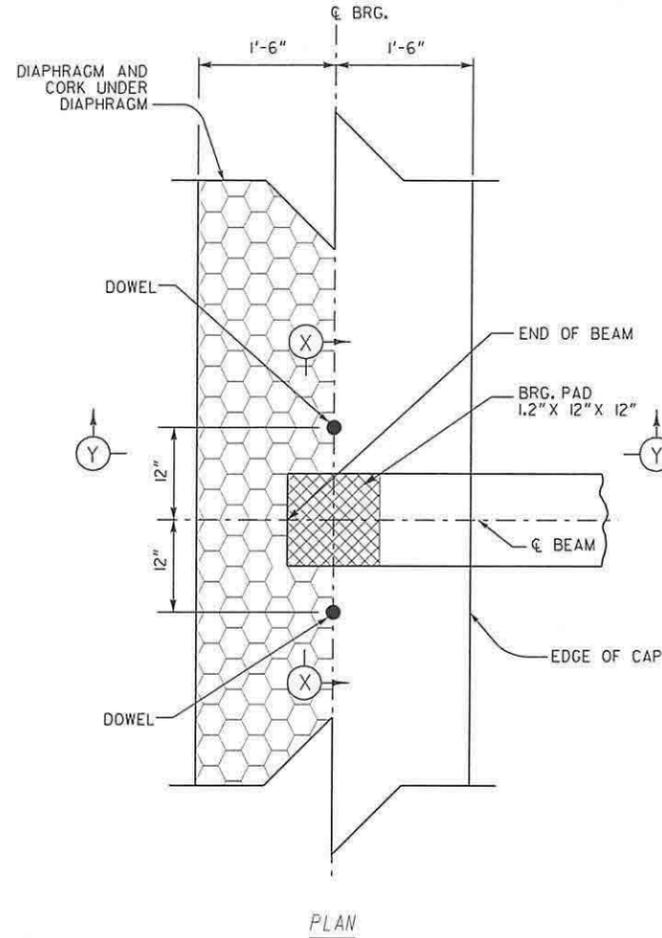
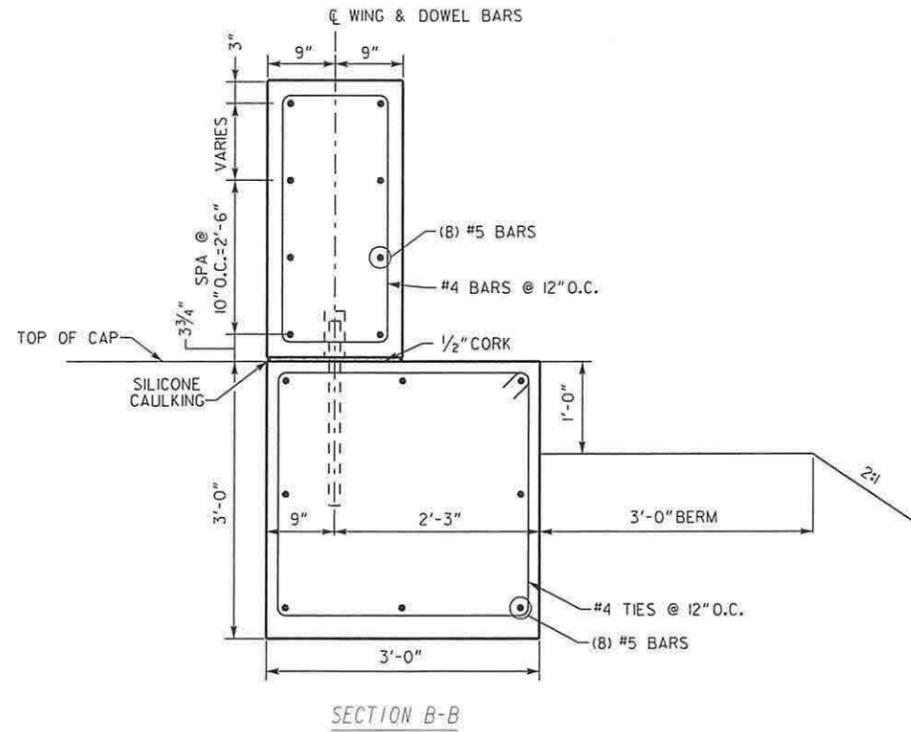
OFFICE: FACILITIES & TRANSPORTATION SERVICES

**BRIDGE ABUTMENT**

WOLF CREEK MULTI-USE TRAIL

DRAWING NO. 35-03





**GENERAL NOTES**

SPECIFICATIONS: FABRICATE THE ELASTOMERIC BEARING PADS TO THE DESIGN AND DIMENSIONS AS SHOWN ON THESE DRAWINGS AND TO AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS, SECTION 18.

ENSURE BEARINGS ARE LOW TEMPERATURE GRADE 3 WITH DUROMETER HARDNESS OF 50 AND SUBJECTED TO THE LOAD TESTING REQUIREMENTS CORRESPONDING TO DESIGN METHOD A.

*Kenneth Ott*  
11/21/2013

PLANS PREPARED AND SUBMITTED BY:

**AET**  
AMERICAN ENGINEERS, INC.  
DESIGN CONSULTANT

PROFESSIONAL ENGINEERING

SCALE: NTS

REVISION DATES

FULTON COUNTY

OFFICE: FACILITIES & TRANSPORTATION SERVICES

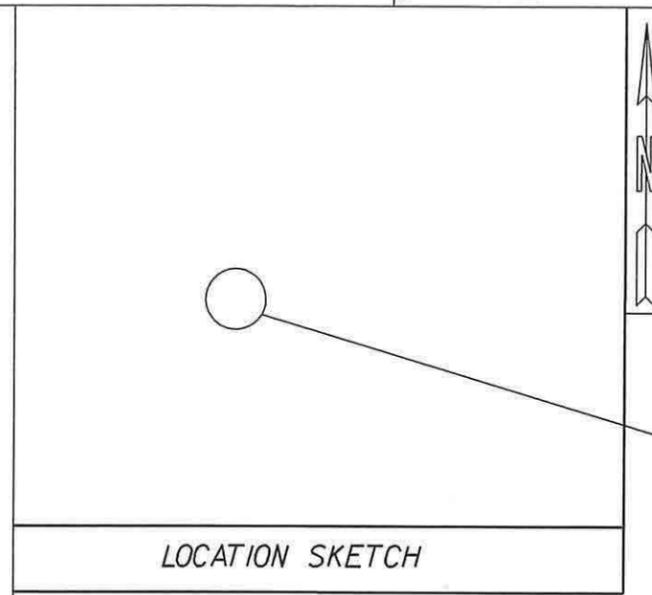
**BRIDGE DETAILS**

WOLF CREEK MULTI-USE TRAIL

DRAWING No. **35-05**

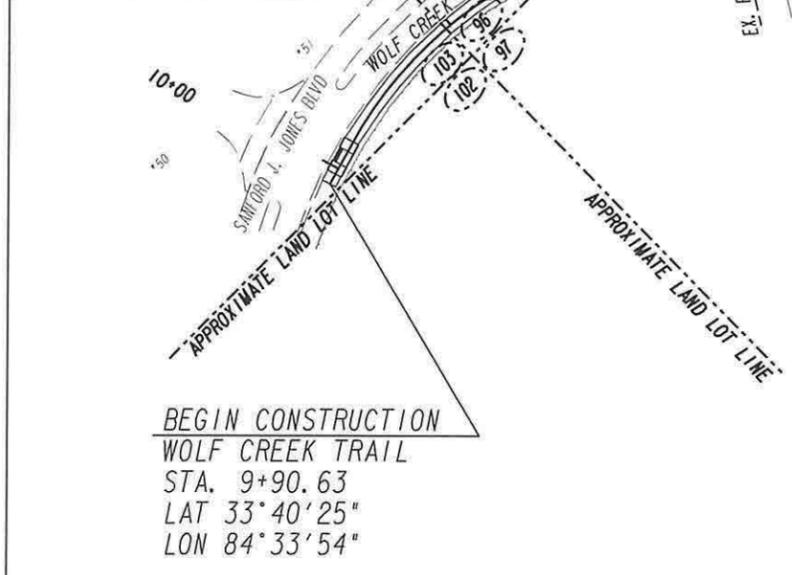
# FULTON COUNTY FACILITIES & TRANSPORTATION SERVICES DEPARTMENT

## EROSION, SEDIMENT, & POLLUTION CONTROL PLAN WOLF CREEK MULTI-USE TRAIL - PEDESTRIAN BRIDGE PROJECT

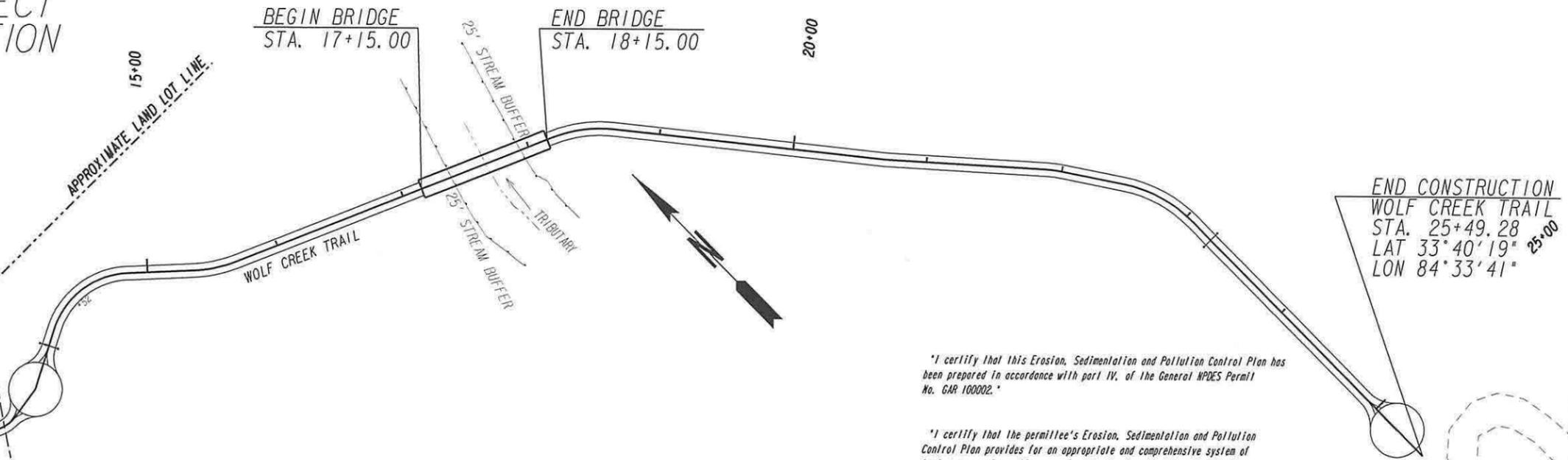


**MID-POINT COORDINATES**  
STA 17+69.96  
Latitude 33°40'23"  
Longitude 84°33'44"

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983/94 WEST ZONE, AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.



THE DATA TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY 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 BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.



**END CONSTRUCTION WOLF CREEK TRAIL**  
STA. 25+49.28  
LAT 33°40'19"  
LON 84°33'41"

"I certify that this Erosion, Sedimentation and Pollution Control Plan has been prepared in accordance with part IV. of the General NPDES Permit No. GAR 100002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia 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 water(s) 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."

I certify under penalty of law that this plan was prepared after a site visit to the location described herein by myself or my authorized agent, under my supervision.

24 Hour Contact:

Name \_\_\_\_\_

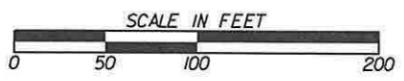
Phone Number \_\_\_\_\_

Contractor shall complete the information in this box.

Thomas S. Fravel, P.E., GSWCC LEVEL II Certification \*0000018849

PLANS COMPLETED 11-22-2013  
REVISIONS

DATE	PAGE NUMBER	SIGNATURE	GSWCC LEVEL II *	REVISION-REQUESTED-BY



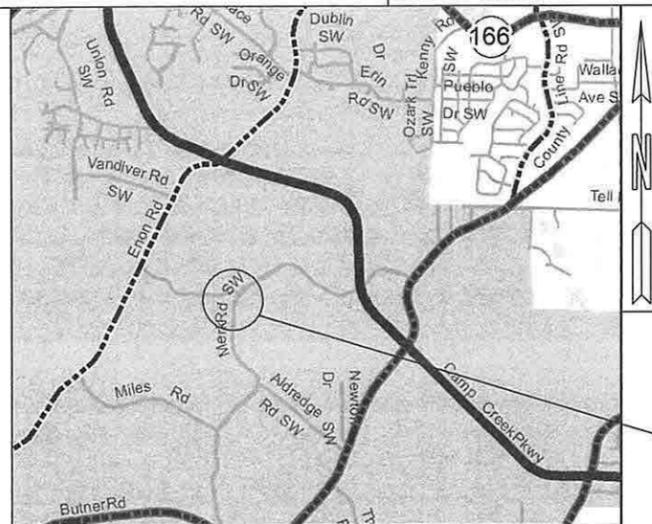
PLANS PREPARED AND SUBMITTED BY:

**AEI**  
AMERICAN ENGINEERS, INC.  
www.aei.cc

DESIGN CONSULTANT      PROFESSIONAL ENGINEERING

# FULTON COUNTY FACILITIES & TRANSPORTATION SERVICES DEPARTMENT

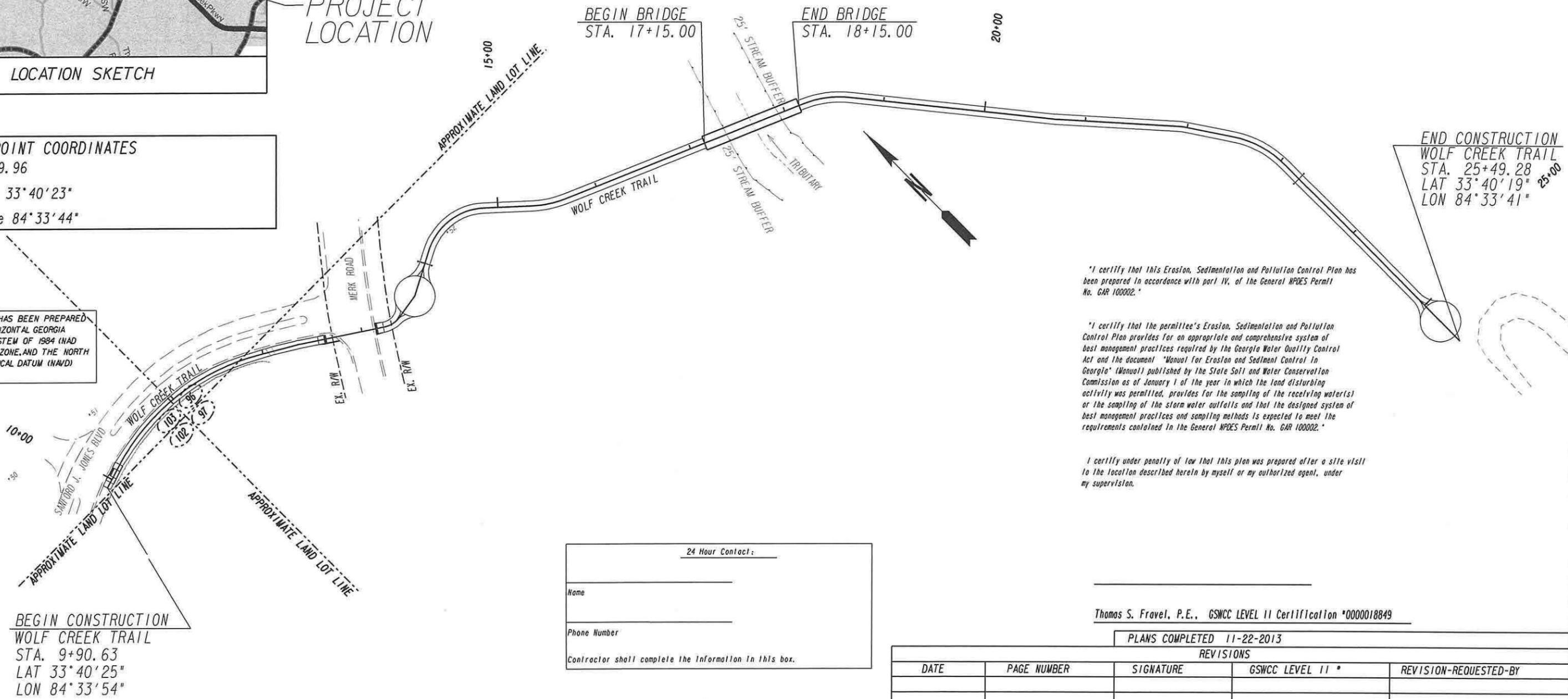
## EROSION, SEDIMENT, & POLLUTION CONTROL PLAN WOLF CREEK MULTI-USE TRAIL - PEDESTRIAN BRIDGE PROJECT



LOCATION SKETCH

**MID-POINT COORDINATES**  
 STA 17+69.96  
 Latitude 33°40'23"  
 Longitude 84°33'44"

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983/94 WEST ZONE) AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.



"I certify that this Erosion, Sedimentation and Pollution Control Plan has been prepared in accordance with part IV, of the General NPDES Permit No. GAR 100002."

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia 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 water(s) 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."

"I certify under penalty of law that this plan was prepared after a site visit to the location described herein by myself or my authorized agent, under my supervision."

**BEGIN CONSTRUCTION  
WOLF CREEK TRAIL**  
 STA. 9+90.63  
 LAT 33°40'25"  
 LON 84°33'54"

24 Hour Contact:

Name \_\_\_\_\_

Phone Number \_\_\_\_\_

Contractor shall complete the information in this box.

Thomas S. Fravel, P.E., GSWCC LEVEL II Certification #0000018849

PLANS COMPLETED 11-22-2013  
 REVISIONS

DATE	PAGE NUMBER	SIGNATURE	GSWCC LEVEL II *	REVISION-REQUESTED-BY

THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY 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 BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04, 102.05, AND 104.03 OF THE SPECIFICATIONS.



PLANS PREPARED AND SUBMITTED BY:

**AEI**  
 AMERICAN ENGINEERS, INC.  
 www.aei.com

2500 Nelson Miller Parkway  
 Louisville, KY 40223  
 (502) 245-3813

65 Aberdeen Drive  
 Glasgow, KY 42401  
 (502) 651-7220

1534 White Circle, Suite 10  
 Marietta, GA 30066  
 (770) 421-4422

DESIGN CONSULTANT PROFESSIONAL ENGINEERING

UPDATED: OCTOBER 18, 2013

ESPCP GENERAL NOTES:

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.

Erosion and sedimentation control measures will be maintained at all times. If full implementation of the approved plan does not provide for effective erosion and sediment control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source.

PLAN ALTERATIONS

The Department will maintain records in accordance with Part IV.F of the General Permit GAR 100002

PLAN ALTERATIONS

The Erosion Sedimentation and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project based on common construction methods and techniques. If the Contractor elects to alter the stage construction from that shown in the plans or utilize construction techniques that render this plan ineffective, the Contractor shall revise the plans in accordance to Special Provision 161 of the contract.

The Contractor, the Certified Design Professional and the WECS shall carefully evaluate this plan prior to commencing land disturbing activities. A major modification or deletion of structural BMP's with a hydraulic component requires a formal revision of the the ESPCP and the signature of a GSWCC level-II-certified design professional. Additional BMP's may be added per Special Provision 161 - Control of Soil Erosion and Sedimentation.

TEMPORARY MULCHING

EPD General Permit GAR 100002 states that any disturbed area where construction activities have temporarily or permanently ceased shall be stabilized within 14 days of such cessation as soon as practicable with a suitable material listed in Standard Specification (or Special Provision) Sections 163, 700, or 711. However in special cases, the Project Engineer may require the contractor to perform stabilization more often than 14 days.

VEGETATION AND PLANTING SCHEDULE

All temporary and permanent vegetative practices including plant species, planting dates, seeding fertilizer, liming, and mulching for this project can be found in section 700 of the current edition of the Department's Standard Specifications (or special provisions) and other applicable contract documents, or landscaping plans.

SEQUENCE OF MAJOR ACTIVITIES

The Contractor is responsible for developing the construction schedule for the project. The construction schedule for this project shall be submitted with the NOI. A copy of the construction schedule shall be maintained at the project site.

The project budget includes sufficient funds for the payment of construction exits. The Contractor is responsible for establishing at least one (1) construction exit per the specifications of the construction exit detail included in the ESPCP. To facilitate project logistics, the Contractor is also responsible for selecting the location(s) of the construction exit(s).

The existing site is an ex-Olympic Archery Range. Construction activity consists of constructing an 8 to 10 foot wide multi-use trail with a 100 foot long pedestrian bridge over a Tributary to Camp Creek.

Stage 1A is to take place before any existing ground is disturbed and is to consist of the placement of perimeter silt fencing, and inlet sediment traps around existing drop inlets. Stage 1 is to consist of the placement of the construction exit, silt fence, ditch check dams, slope matting as soon as grading is complete, and rip rap in place as soon as drainage ditches are graded. All temporary BMP's are to be removed upon completion of construction and final stabilization.

PETROLEUM STORAGE, SPILLS AND LEAKS

These plans expressly delegate the responsibility of proper on-site hazardous material management to the Contractor. The contractor shall at a minimum provide an action plan and keep the necessary materials on site for the capture, clean up, and disposal of any petroleum product, or other hazardous material, leaks or spills associated with the servicing, refueling or operation of any equipment utilized at the site. A copy of the action plan shall be submitted to the Project Engineer and maintained on the project site. All personnel operating or servicing equipment shall be familiar with the action plan. The Contractor shall not park, refuel, or maintain equipment within stream buffers.

If the Contractor elects to store petroleum products on site, the Contractor shall prepare an ESPCP addendum that addresses the additional BMP's needed for on site storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GAR100002 for inclusion with these plans. The Contractor's attention is specifically directed to Standard Specification 107-Legal Regulations and Responsibility to the public for additional requirements.

SOIL SERIES INFORMATION

The following is a summary of the soils that are expected to be found on the project site:

Table with 2 columns: SYMBOL and NAME. Lists soil types like AaB, AgC, ArE, CaA, CeC2, GaF, PaC2, Pi, ReD, ReE, RoE, Ua, Ub, W.

POST-CONSTRUCTION BMP'S FOR STORMWATER MANAGEMENT

All permanent, post-construction BMP's are shown in the construction plans and in the ESPCP plan. The post-construction BMP's for this project may consist of permanent vegetation, permanent slope drains and/or flumes, rip-rap at pipe outlets for velocity dissipation and outlet stabilization, vegetated swales/ditches where practical, channel/ditch stabilization with Turf Reinforcing Mats, rip-rap, and concrete ditch lining where necessary. The post-construction BMP's will provide permanent stabilization of the site and prevent accelerated transportation of sediment and pollutants into receiving waters.

SILT FENCE INSTALLATIONS WITH J HOOKS AND SPURS

Silt fence should never be run continuously. The silt fence should turn into the fill or slope to create small pockets that trap silt and force stormwater to flow through the silt fence. This technique is called using J hooks (or spurs). The J hooks shall be utilized on all silt fences that are located around the perimeter of the project and along the toe of embankment or slopes. The J hooks shall be spaced in accordance with GDOT Construction Detail D-24C. The maximum J hook spacing is reached when the top of the J hook is at the same elevation as the bottom of the immediately upgradient J hook. J hooks shall be paid for as silt fence items per linear foot. All costs and other incidental items are included in cost of installing and maintaining the silt fence.

SITE STABILIZATION AND BMP MAINTENANCE MEASURES

See the Department's Standard Specifications (or Special Provisions) 161, 163, 165, 700, 711, and other contract documents for stabilization and maintenance measures.

WASTE DISPOSAL

Where attainable, locate waste collection areas, dumpsters, trash cans and portable toilets at least 50 feet away from streets, gutters, watercourses and storm drains. Secondary containment shall be provided around liquid waste collection areas to minimize the likelihood of contaminated discharges. The Contractor shall comply with applicable state and local waste storage and disposal regulations and obtain all necessary permits. Solid materials, including building materials, shall not be discharged to Waters of the State, unless authorized by a Section 404 Permit.

INSPECTIONS

The primary permittee must retain the design professional who prepared the ESPCP, or an alternative design professional approved by EPD in writing, to inspect the installation of the initial sediment storage requirements and perimeter control BMP's within seven (7) days of installation over the entire infrastructure project. Alternatively, for linear infrastructure projects, the permittee must retain either of these personnel to inspect the initial sediment storage requirements and perimeter control BMP's for the initial segment, as defined by Part IV.A.5, of the current GAR100002 Permit, within seven (7) days of installation and all sediment basins within the entire linear infrastructure project seven (7) days of installation. The inspecting design professional shall report the results to the primary permittee within seven (7) days, and the permittee must correct all deficiencies within two (2) business days of receipt of the inspection report, unless on-site weather conditions are such that more time is required. Additionally, the Department's Construction Project Engineer will be responsible for all subsequent seven-day inspections for all new BMP installations.

All other inspections shall be documented on the appropriate Department Inspection forms. See Standard Specification (or Special Provision) 167 and other contract documents for inspection requirements. These inspections shall continue until the Notice of Termination (NOT) is submitted.

Failure to perform inspections as required by the contract documents and the NPDES permit shall result in the cessation of all construction activities with the exception of Traffic Control and Erosion Control. Continued failure to perform inspections shall result in non-refundable deductions as specified in the contract documents.

NON-STORM WATER DISCHARGES

Non-storm water discharges. Except for flows from fire fighting activities, sources of non-storm water listed Part III.A.2 of this permit that are combined with the storm water discharges associated with construction activity must be identified in the Plan. The Plan shall identify and insure the implementation of appropriated pollution prevention measures for non-storm water component(s) of the discharge.

DE-WATERING ACTIVITIES AND USE OF PUMPS

Any pumped discharge from an excavation or disturbed area shall be routed through an appropriately sized sediment basin, silt filter bag or shall be treated equivalently with suitable BMP's. The contractor shall ensure the post BMP treated discharge is sheet flowing. Failure to create sheet flow will obligate the contractor to perform water quality sampling of their pumped discharges. The contractor shall prepare sampling plans in accordance with the current GAR100002 NPDES permit utilizing by a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

OTHER CONTROLS

The contractor shall follow this ESPCP and ensure and demonstrate compliance with applicable State and/or local regulations for waste disposal, sanitary sewer and septic systems, and petroleum storage.

The contractor shall control dust from the site in accordance with Section 161 of the current edition of the Department's Specifications.

SEDIMENT STORAGE

The site has a total disturbed area of 1.59 acres. The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMP's specified in this table. Sediment storage maintenance indicators must be installed in sediment storage structures, indicating the 1/3 full volume.

Table with columns: Location, Total Drainage Area, Disturbed Area, Required Sediment Storage, Total Storage, Sediment Basins, Check Dam, Inlet sediment, Silt Fence. Includes a row for Station 17+65 LT and a Total Sheet Flow row.

In order to prevent runoff from bypassing inlet sediment traps, a temporary berm shall be installed on the downstream side of all inlet sediment traps that are not located in a low point or an excavated sump. Temporary berms, when necessary, shall be a minimum of 18" high and constructed in a manner that ensures stormwater does not bypass the inlet. The contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

SEDIMENT BASINS

Sediment basins will not be utilized at any outfall locations for reasons noted below:

Station 17+65 LT: A Sediment Basin is not used at this location. The disturbed acreage within the drainage area is 1.59 acres. The construction of a sediment basin will have adverse impacts from the additional disturbance.

PLANS PREPARED AND SUBMITTED BY: American Engineers, Inc. Professional Engineering. Includes address and contact information for the firm.

NTS

REVISION DATES table, FULTON COUNTY OFFICE: FACILITIES & TRANSPORTATION SERVICES, ESPCP GENERAL NOTES, WOLF CREEK MULTI-USE TRAIL, DRAWING No. 51-01

### STREAM BUFFER ENCROACHMENT

Stream Buffers, as defined by O.C.G.A. 12-7-1, are not impacted by this project.

### SAMPLING GENERAL NOTES:

Representative sampling may be utilized on this project as explained here. The individual outfall drainage basins along the project corridor have been carefully evaluated and compared on the basis of four characteristics: the type of construction activity, the disturbed acreage, the average slope about the outfall, and the soil erosion index. The soil erosion index is low if it is less than or equal to 5 and high if it is greater than 5. After evaluation of these characteristics as presented in the project's drainage area map, hydrology and hydraulic studies, construction plans, geotechnical soil survey, and erosion sedimentation and pollution control plans, the Department has determined that the representative sampling scheme shown below is valid for the duration of the project. The table shows the groups of similar outfall drainage basins.

The increase in turbidity at the specified locations in the table below will be representative of the alternate outfall drainage basins when similar outfall drainage basins exist. Approved primary and alternate representative sampled features are identified in the table below.

SAMPLING INFORMATION										OUTFALL CHARACTERISTICS					
Primary Monitored Feature	Location (Station and Offset)	Name of Receiving Water	Applicable Construction Stage for Monitoring	Sampling Type (Outfall or Receiving water)	Drainage Area for receiving water (mi <sup>2</sup> )	Upstream Disturbed Area (acres)	Warm or Cold Water Stream	Appendix B NTU Value (Outfall monitoring only)	Allowable NTU Increase (Receiving water monitoring only)	Location Description	Construction Activity	Disturbed Area (acres)	Average Outfall Slope (Rise/Run)	Soil Erosion Index	Alternate Outfall Drainage Basins
1	17+65, 100 ft L	Tributary	All	Outfall	0.28	N/A	Warm	50	N/A	Bridge	Trail Construction	1.59	0.017	N/A	N/A

### INSPECTING AND SAMPLING PROCEDURES

#### Sampling Frequency

(1) The primary permittee must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall location within 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 permittee's control, the permittee 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 permittee 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 representative 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 representative 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 permittee, in accordance with Part IV.D.4.a.16, must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee 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 Permittee 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 III.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 permittee 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 and 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 analysis;
- f. References and written procedures, when available, for the analytical techniques or method used;
- g. The results of such analysis, 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 permittee 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.

### RETENTION OF RECORDS

1. The primary permittee 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 monitoring 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.11(c) 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 permittee 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 permittee's primary place of business or at a designated alternate 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 permittee.

### READY MIX CHUTE WASH-DOWN

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of portland cement concrete is prohibited on this site. In accordance with standard Specification 107 - Legal Regulations and Responsibility to the Public, only the discharge "chute" utilized in portland cement concrete delivery may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the travel way, including shoulders, for a wash/pit area. The pit shall be large enough to store all wash-down water without overtopping the pit. Immediately after the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above shall be graded to match the elevation of the surrounding areas smoothed out. Alternate wash down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down water pit location that includes the following: (1) the pit is located away from a storm drain, stream or river, (2) the pit is accessible to the vehicle being used for wash-down, (3) the pit has enough volume for wash-down water, and (4) make sure you have permission to use the area for wash-down. On some sites, you may not have permission or access to a location which allows for a wash-down pit. In those cases, the Contractor may have to wash-down into a wheelbarrow or other container and carry the container for transport to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down".

### ALTERNATIVE BMPs

Alternative BMPs are not used on this project.

#### PLANS PREPARED AND SUBMITTED BY:


 65 Aberdeen Drive  
 Gosport, NY 4204  
 42101-6512-2200  
 2500 Nelson Water Parkway  
 Louisville, KY 40223  
 5021-245-3813  
 AMERICAN ENGINEERS, INC.  
 www.aet.com  
 DESIGN CONSULTANT

654 White Circle, Suite 101  
 Marietta, GA 30066  
 7701-421-8422

PROFESSIONAL ENGINEERING

# NTS

#### REVISION DATES


#### FULTON COUNTY

OFFICE: FACILITIES & TRANSPORTATION SERVICES

### ESPCP GENERAL NOTES

WOLF CREEK MULTI-USE TRAIL

DRAWING NO. 51-02

Sampling Requirements. This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. The following procedures constitute EPD's guidelines for sampling turbidity.

a. 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 infrastructure 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 for each representative stormwater outfall. When the permittee 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 and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;
- (3) When the permittee 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 permittee 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 permittee 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 permittee must sample all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies, or all outfalls into such streams and other water bodies, or a combination thereof. However, provided for in and in accordance with Part IV.D.6.c.(2) of this permit, primary permittees on an infrastructure construction project may sample the representative perennial and intermittent streams, other water bodies or outfalls, or a combination thereof. 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 of 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) Permittees 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, 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). For infrastructure construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use.
  - (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 III.D.3, or III.D.4, whichever is applicable.
- (2) For infrastructure construction projects, the permittee is not required to sample a perennial or intermittent stream or other water bodies (or the associated outfall, if applicable) if the design professional preparing the Plan certifies that an increase in the turbidity of a specific identified receiving water to be sampled will be representative of the increase in the turbidity of a specific identified un-sampled receiving water. A written rationale and detailed analysis shall be prepared by the design professional justifying such proposed sampling. A summary chart of the justification and analysis for the representative sampling must be included on the Plan. The justification and analysis shall include the location and description of the specified sampled and un-sampled receiving water and shall contain a detailed comparison and discussion of each such receiving water in the following areas:
  - (a) site land disturbances and characteristics;
  - (b) receiving water watershed sizes and characteristics; and
  - (c) site and watershed runoff characteristics utilizing the methods in Appendix A-1 (United States Department of Agriculture Soil Conservation Service's TR-55, Urban Hydrology for Small Watersheds) of the most recent version of the "Manual for Erosion and Sedimentation Control in Georgia" for the various precipitation events and any other such considerations necessary to show that the increase in the turbidity of a specific identified sampled receiving water will be representative of the increases in the turbidity of a specific identified un-sampled receiving waters.
- (3) For infrastructure construction projects, when the permittee determines that some receiving water(s) will not be sampled due to representative sampling, the design professional making this determination and preparing the Plan must include and sign the following certification in the Plan:
 

"I certify that the permittee'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 topographic 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 the turbidity of each specific identified sampled receiving water will be representative of the increase in the turbidity of a specific identified un-sampled receiving water."
- (4) For infrastructure construction projects, if at any time during the life of the project a selected receiving water no longer represents another receiving water, then the permittee shall sample the latter receiving water until selection of an alternative representative receiving water.
- (5) For infrastructure construction projects, if at any time during the life of the project a receiving water is determined not to be represented as certified in the Plan, the permittee shall sample that receiving water until a Notice of Termination is submitted or until the applicable phase is stabilized in accordance with this permit.
- (6) For infrastructure construction projects, monitoring obligations shall cease for any phase of the project that has been stabilized in accordance with Part IV.D.6.c.(1)(g).

ANTICIPATED ACTIVITY SCHEDULE

ACTIVITY / MONTH	1	2	3	4	5	6
INITIAL EROSION AND SEDIMENT CONTROL	■					
INTERMEDIATE EROSION AND SEDIMENT CONTROL		■	■	■	■	■
CLEARING AND GRUBBING	■					
GRADING				■	■	■
UTILITY RELOCATION				■	■	■
PAVING		■	■	■	■	■
MAINTAIN EROSION CONTROL		■	■	■	■	■
FINAL STABILIZATION						■
CLEAN UP						■

ANTICIPATED START DATE: JANUARY 2014

EXISTING IMPERVIOUS AREA:	0.00 ACRES
NET GAINED IMPERVIOUS AREA:	0.31 ACRES
NET GAINED IMPERVIOUS AREA BY PERCENTAGE OF TOTAL:	19.50%

**Primary Permittee**  
**Fulton County**  
**Facilities & Transportation Services Department**  
**141 Pryor Street, SW, Suite G119**  
**Atlanta, GA 30303**  
**404-612-8325**

PLANS PREPARED AND SUBMITTED BY:



AMERICAN ENGINEERS, INC.  
www.aeinc.com

DESIGN CONSULTANT

1634 White Circle, Suite 104  
Marietta, GA 30066  
770-421-8522

NTS

REVISION DATES

FULTON COUNTY

OFFICE: FACILITIES & TRANSPORTATION SERVICES

**ESPCP GENERAL NOTES**

WOLF CREEK MULTI-USE TRAIL

DRAWING No. 51-03



**Georgia Soil and Water Conservation Commission**  
**EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST**  
**INFRASTRUCTURE CONSTRUCTION PROJECTS**

SWCD: Fulton County SWCD  
 Project Name: Wolf Creek Multi-Use Trail Address: Overflow Lot of Wolf Creek Amphitheater  
 City/County: Fulton Date on Plans: 11/22/2013

Plan Page #	Included Y/N	TO BESHOWN ON ES&PC PLAN
51-03	Y	1. 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. <b>(The completed Checklist must be submitted with the ES&amp;PC Plan or the Plan will not be reviewed)</b>
50-01	Y	2. Level II certification number issued by the Commission, signature and seal of the certified design professional. <b>(Signature, seal and Level II number must be on each sheet pertaining to ES&amp;PC plan or the Plan will not be reviewed)</b>
50-01	Y	3. The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
51-03	Y	4. Provide name, address and phone number of primary permittee.
53-01	Y	5. Note total and disturbed acreage of the project or phase under construction.
50-01	Y	6. Provide land lot and district numbers for site location. Describe critical areas and any additional measures that will be utilized for these areas.
50-01	Y	7. Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
50-01	Y	8. Graphic scale and north arrow.
53-01	Y	9. Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following: Existing Contours: <u>USGS 1":2000' Topographical Sheets</u> Proposed Contours: <u>1" : 400' Centerline Profile</u>
53-01	Y	10. Delineation and acreage of contributing drainage basins on the project site.
N/A	N/A	11. Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
N/A	N/A	12. 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.
55-01	Y	13. Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.*
53-01	Y	14. Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
53-01	Y	15. Soil series for the project site and their delineation.
53-01	Y	16. Identify the project receiving waters and describe all adjacent areas including streams, lakes, residential areas, wetlands, etc. which may be affected.
N/A	N/A	17. 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 Biotically Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix I listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.*
N/A	N/A	18. If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 18 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.*
53-01	Y	19. Delineate on-site drainage and off-site watersheds using USGS 1" : 2000' topographical sheets.
50-01	Y	20. Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
54-01	Y	21. The limits of disturbance for each phase of construction.
51-01	Y	22. 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 rationale 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. 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.
51-01	N	23. 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 <a href="http://www.gswcc.org">www.gswcc.org</a> .
54-01	Y	24. Best Management Practices to minimize off-site vehicle tracking of sediments and the generation of dust.
51-02	Y	25. 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.*
51-01	Y	26. Provide BMPs for the remediation of all petroleum spills and leaks.*

Plan Page #	Included Y/N	TO BESHOWN ON ES&PC PLAN
52-01	Y	27. 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.
51-01	Y	28. Description of the nature of construction activity.
51-01	Y	29. 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.*
51-03	Y	30. 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).
51-01	Y	31. Description of the practices that will be used to reduce the pollutants in storm water discharges.*
51-01	Y	32. 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.*
50-01	Y	33. 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.
50-01	Y	34. 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 14 of the permit.*
N/A	N/A	35. Certification statement and signature of the permittee or the duly authorized representative as stated in section V.G.2.d. of the state general permit.*
53-01	Y	36. An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
51-02	Y	37. Indication 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 without first acquiring the necessary variances and permits.
51-01	Y	38. Indication that the design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation.*
51-01	Y	39. Indication 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.*
51-02	Y	40. Indication that waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit.*
51-01	Y	41. Documentation that the ES&PC Plan is in compliance with waste disposal, sanitary sewer, or septic tank regulations during and after construction activities have been completed.*
51-02	Y	42. Provide complete requirements of inspections and record keeping by the primary permittee.*
51-02	Y	43. Provide complete requirements of sampling frequency and reporting of sampling results.*
51-02	Y	44. Provide complete details for retention of records as per Part IV.F. of the permit.*
51-03	Y	45. Description of analytical methods to be used to collect and analyze the samples from each location.*
51-02	Y	46. Appendix B rationale for outfall sampling points where applicable.*
51-01	Y	47. Clearly note statement in bold letters - "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."
51-01	Y	48. Clearly note maintenance statement in bold letters - "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."
51-01	Y	49. Clearly note the statement in bold letters - "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
52-01	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.
51-01	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.

Effective January 1, 2013

PLANS PREPARED AND SUBMITTED BY:

**VEI**  
 63 Aberdeen Drive, Douglas, KY 42023  
 634 White Plains, Suite 100, Marietta, GA 30066  
 2500 Nelson Motor Parkway, Louisville, KY 40223

**AMERICAN ENGINEERS, INC.**  
 DESIGN CONSULTANT

NTS

REVISION DATES	

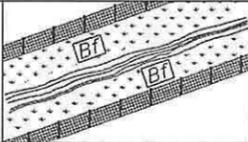
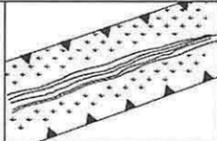
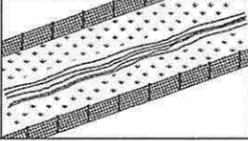
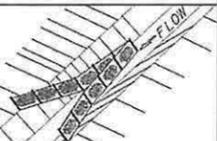
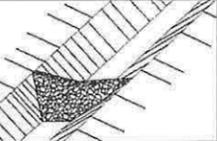
**FULTON COUNTY**

OFFICE: **FACILITIES & TRANSPORTATION SERVICES**

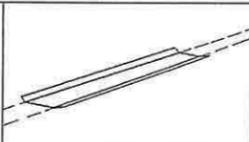
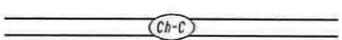
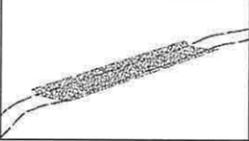
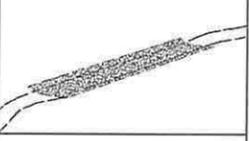
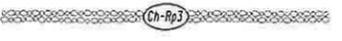
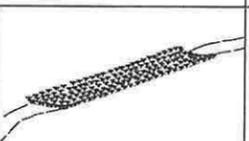
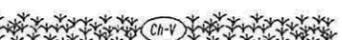
**ESPCP GENERAL NOTES**

WOLF CREEK MULTI-USE TRAIL

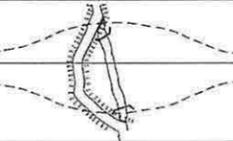
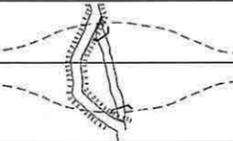
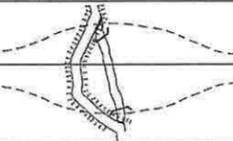
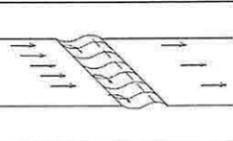
DRAWING No. **51-04**

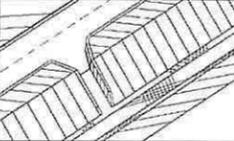
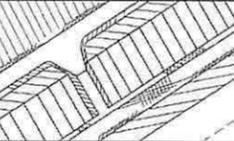
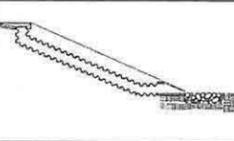
CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
Bf		 <p>BUFFER ZONE</p> <p>SYMBOL</p> 	A STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION, OR THE RE-ESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERING STREAMS, PONDS, WETLANDS, LAKES, AND COASTAL WATERS. THE BOUNDARIES OF THESE AREAS ARE BE DELINEATED BY ORANGE BARRIER FENCE.
ESA		 <p>ENVIRONMENTALLY SENSITIVE AREA</p> <p>LINE CODE</p>  <p>ESA-25' (OR 50') STREAM BUFFER, ETC.</p>	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.
		 <p>ORANGE BARRIER FENCE</p> <p>LINE CODE</p>  <p>ORANGE BARRIER FENCE</p>	ORANGE BARRIER FENCE DELINEATES ESA AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
Cd-F		 <p>FABRIC CHECK DAM</p> <p>CONSTRUCTION DETAIL SECTION 171</p> <p>LINE CODE</p> 	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		 <p>STONE OR SANDBAG CHECK DAM</p> <p>SECTION 163, 603</p> <p>LINE CODE</p> 	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		 <p>CHANNEL CONCRETE</p> <p>SECTION 161, 441</p> 	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		 <p>CHANNEL RIP RAP TYPE 1</p> <p>SECTION 161, 603</p> <p>LINE CODE</p> 	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		 <p>CHANNEL RIP RAP TYPE 3</p> <p>SECTION 161, 603</p> <p>LINE CODE</p> 	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		 <p>CHANNEL GRASS</p> <p>SECTION 161, 700</p> <p>LINE CODE</p> 	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

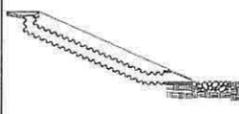
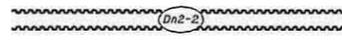
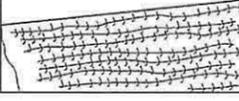
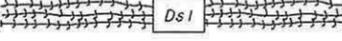
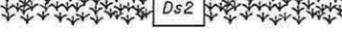
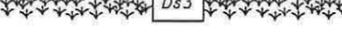
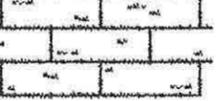
CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL		A STONE STABILIZED PAD LOCATED AT ANY POINT WHERE TRAFFIC WILL BE EXITING A CONSTRUCTION SITE TO A PUBLIC ROAD. BEST USED AT ACCESS POINTS, I. e. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MIN. 20' WIDE AND 50' LONG, AND 6" THICK. REQUIRES A GEOTEXTILE UNDERLINER, INCLUDED IN THE PRICE FOR THE CONSTRUCTION EXIT.
		LINE CODE 	
Dc-A	DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163		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.
		LINE CODE 	
Dc-B	DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163		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.
		LINE CODE 	
Dc-C	DIVERSION CHANNEL RIPRAP AND GEOTEXTILE SECTION 163		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.
		LINE CODE 	
Di	DIVERSION BERM CONSTRUCTION DETAIL SECTION 161, 205		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.
		LINE CODE 	SEE CHAPTER 6 OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA FOR DESIGN CRITERIA AND DETAILS.

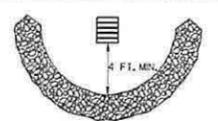
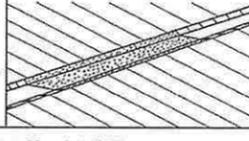
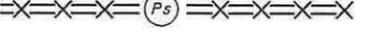
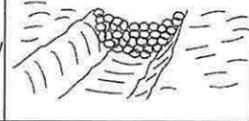
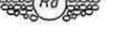
CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
Dn1	DOWN DRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL SECTION 163		A TEMPORARY PIPE SLOPE DRAIN IS A PLASTIC FLEXIBLE PIPE TO CARRY WATER FROM THE WORK AREA TO A LOWER ELEVATION. TEMPORARY SLOPE DRAINS SHOULD BE PLACED AT INTERVALS OF 500 FEET ON 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'.
		LINE CODE 	
Dn2-A	PERMANENT DOWN DRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL SECTION 441		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).
		LINE CODE 	
Dn2-B	PERMANENT DOWN DRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL SECTION 441		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).
		LINE CODE 	
Dn2-I	PERMANENT DOWNDRAIN STRUCTURE GA. STD. 9017J TPI, D-26 TPI SECTION 576, 577.		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).
		LINE CODE 	

- NOTE:
- DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
  - 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".

UPDATED DRAWING NO.		1-24-13	DEPARTMENT OF TRANSPORTATION	
REV. DI LABEL DESCRIPTION, 10-1-12			STATE OF GEORGIA	
RELOCATED Dn2-A, Dn2-B, AND Dn2-I CODES FROM ECL&UC SHEET 3 OF 6.			EROSION CONTROL LEGEND AND UNIFORM CODE SHEET	
ECL&UC SHEET 3 OF 6.			SHEET 2 OF 6	
REVISED ORDER		P-13-07		
REVISED TITLE BLOCK		1-13-07		
BY		REVISION		
NO SCALE		JANUARY 2007		
NUMBER EC-L2		DRAWING NO. 52-002		

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		34	45

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		

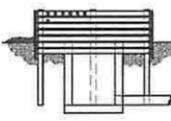
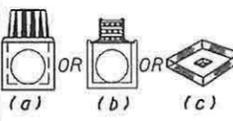
NOTE:  
 1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.  
 2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION CONTROL MEASURES, SEE THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

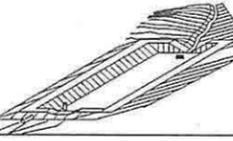
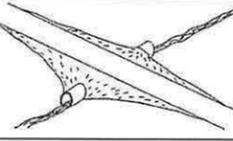
DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
EROSION CONTROL LEGEND AND UNIFORM CODE SHEET SHEET 3 OF 6	
NO SCALE	JANUARY 2007
NUMBER EC-L3	DRAWING No. 52-003

TC	UPDATED DRAWING NO. ADDED 1-24-13
TC	Ds3 & Ds4 CODES, RELOC. Rp & Rt-P CODES TO DRAWING NO. 52-004.
GLO	RELOCATED Rd, Ps & Rt-B 10-2-12
GLO	CODES FROM ECL&IC SHEET 4 OF 6.
GLO	DELETED Fc, REVISED ORDER 11-13-07
BY	REVISED TITLE BLOCK 1-19-07
	REVISION DATE



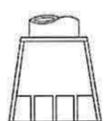
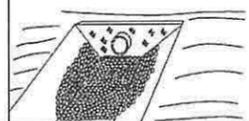
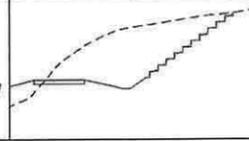
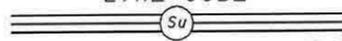
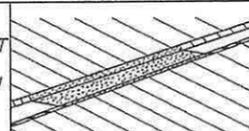
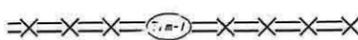
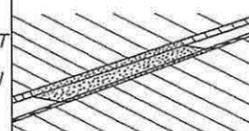
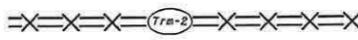
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		36	45

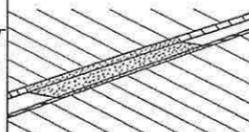
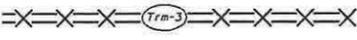
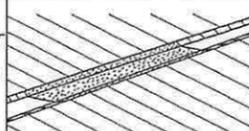
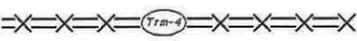
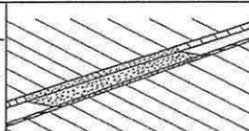
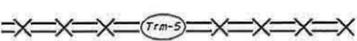
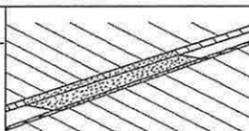
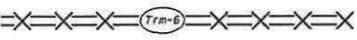
CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
Sd1-Bb	BRUSH BARRIER CONSTRUCTION DETAIL		THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES DURING THE CLEARING AND GRUBBING OPERATION. THE BARRIER SHOULD BE USED AT THE TOE OF FILL SLOPES ON GRADING PROJECTS IN RURAL AREAS WHERE SUFFICIENT RIGHT OF WAY OR EASEMENT IS AVAILABLE (10 FEET OR MORE). THE BARRIER SHOULD RUN ROUGHLY PERPENDICULAR TO THE FLOW OF WATER WHERE THIS DOES NOT CONFLICT WITH RIGHT OF WAY OR EASEMENT LIMITS. THEY WILL NOT BE PLACED IN WETLANDS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPERATE PAYMENT SHALL BE MADE.
		LINE CODE * * * Sd1-Bb * * *	
Sd1-Hb	SEDIMENT BARRIER CONSTRUCTION DETAIL SECTION 163		A BARRIER OF BALED STRAW IS USED TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. IT IS USED IN DITCHES AS DITCH CHECKS OR ALONG THE TOE OF SLOPE OR RIGHT OF WAY IN FILLS LESS THAN 10 FEET HIGH. THE BALES SHOULD RUN PARALLEL TO THE SILT YIELDING AREA UNTIL THE TOP OF THE BALE IS 6 INCHES LOWER THAN THE GROUND ELEVATION OF THE BEGINNING BALE. THEY SHOULD THEN TURN INTO THE FILL WITH A LOW POINT FOR THE WATER TO DRAIN OVER THE BALE. IN DITCHES, BALED STRAW SHOULD BE PERPENDICULAR TO THE FLOW. USED FOR SLOPES LESS THAN 1%, USE 100' SPACING. BALED STRAW SHALL BE STAKED SECURELY TO THE GROUND.
		LINE CODE -s-s-s Sd1-Hb s-s-s-	
Sd2-B	BAFFLE BOX INLET SEDIMENT TRAP CONSTRUCTION DETAIL D42 SPECIFICATIONS SECTION 163		USED FOR INLETS RECEIVING RUNOFF WITH A HIGHER VOLUME OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING A Q=7 cfs.
		LINE CODE Sd2-B	
Sd2-Bg	BLOCK & GRAVEL DROP INLET PROTECTION CONSTRUCTION DETAIL D42 SPECIFICATIONS SECTION 163		USED FOR INLET PROTECTION WHERE HEAVY FLOWS ARE EXPECTED AND WHERE OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE. CAN BE USED AT CULVERT INLETS. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING A Q=5-7 cfs.
		LINE CODE Sd2-Bg	
Sd2-F	INLET SEDIMENT TRAP CONSTRUCTION DETAILS SECTION 163		(a) A SEDIMENT BARRIER CONSISTING OF A PREFABRICATED FRAME WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN (b) A SEDIMENT BARRIER CONSISTING OF A PERFORATED METAL STAND PIPE WITH FILTER FABRIC USED AROUND A DROP INLET OR CATCH BASIN (c) TYPE C SILT FENCE WITH SUPPORTING FRAME CAN BE USED AS AN ALTERNATE TO INLET SEDIMENT TRAP FOR AREAS WITH SLOPES < 5%  THIS ITEM IS USED TO PREVENT SILT FROM ENTERING THE PIPE SYSTEM. SHALL NOT APPLY TO INLETS RECIEVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOWS THAT RANGE FROM Q=0-4 cfs.
		LINE CODE Sd2-F	

CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
Sd2-G	GRAVEL DROP INLET PROTECTION CONSTRUCTION DETAIL D42 SPECIFICATIONS SECTION 163		USED FOR INLET PROTECTION WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED. STONE AND GRAVEL ARE USED TO TRAP SEDIMENT. THE SLOPE TOWARD THE INLET SHALL BE NO MORE THAN 3:1. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING A 0-3-5 cfs.
		LINE CODE Sd2-G	
Sd3	SEDIMENT BASIN CONSTRUCTION DETAIL SECTION 163		A BASIN EXCAVATED OR AN AREA THAT IS DAMMED. THE BASIN IS DESIGNED TO HOLD A SEDIMENT LOAD OF 67 CUBIC YARDS OF VOLUME PER ACRE OF DRAINAGE AREA. IT IS USED FOR DRAINAGE AREAS OF 3 TO 5 ACRES OR WHERE A ROADWAY CUTS OR FILLS EXCEEDS 1,000 FEET IN LENGTH. IF A SEDIMENT BASIN IS USED ON AN AREA LARGER THAN 5 ACRES SPECIAL CONSIDERATION FOR CLEAN OUT IS REQUIRED. SUFFICIENT RIGHT OF WAY OR PERMANENT EASEMENT NEEDED FOR THE BASIN AND ACCESS FOR CLEAN OUT VIA A ROUTE WITH 3:1 SLOPES OR LESS. SEDIMENT BASINS SHOULD ALSO BE CONSIDERED WHERE HIGH FILLS OVER 30 FEET DRAIN TO ONE LOCATION.
		LINE CODE Sd3	
Sr	STREAM CROSSING SECTION 161		A TEMPORARY BRIDGE OR PIPE STRUCTURE PROTECTING A STREAM OR WATER COURSE FROM DAMAGE BY CONSTRUCTION EQUIPMENT. THIS AREA MUST BE COMPLETELY STABILIZED. THIS ITEM MUST BE DESIGNED ACCORDING TO CHAPTER 6 OF THE MANUAL FOR EROSION CONTROL IN GEORGIA
		LINE CODE Sr	FOR CONTRACTOR'S USE ONLY

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".

I-24-13		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
TC	UPDATED DRAWING NO. & RELOCATED ST & ST-RP CODES TO DRAWING NO. 52-006.	EROSION CONTROL LEGEND AND UNIFORM CODE SHEET SHEET 5 OF 6	
TC	DEL. SPT-1, SPT-2, SPT-3 CODES, 10-2-12 RELOCATED ST & ST-RP, CODES FROM ECL & UC SHT. 6 OF 6.	NO SCALE	
GLO	REV. SPT-1, SPT-2 AND SPT-3	JANUARY 2007	
GLO	REVISED TITLE BLOCK	NUMBER EC-L5	
BY	REVISION	DRAWING No. 52-005	

CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332	 LINE CODE SI	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.
St-Rp	STORM DRAIN OUTLET PROTECTION SECTION 603	 PATTERN 	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.
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL SECTION 205	 LINE CODE  (LINE CODE Su IS SHOWN ON THE PLANS FOR SERRATED SLOPES WHERE SPECIFIED IN THE SOIL SURVEY.)	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.
Trm-1	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711	 LINE CODE 	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.)
Trm-2	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711	 LINE CODE 	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.)

CODE	PRACTICE STD : SPC'S : SECTION	DETAIL	DESCRIPTION
Trm-3	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711	 LINE CODE 	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.)
Trm-4	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711	 LINE CODE 	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.)
Trm-5	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711	 LINE CODE 	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.)
Trm-6	TURF REINFORCEMENT MAT CONSTRUCTION DETAIL SECTION 711	 LINE CODE 	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.)

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".

1-24-13		DATE		DEPARTMENT OF TRANSPORTATION	
10-2-12		REVISION		STATE OF GEORGIA	
TC	UPDATED DRAWING NO.	BY	NO SCALE	EROSION CONTROL LEGEND	
TC	ADDED Trm-1, Trm-2, Trm-3, Trm-4, Trm-5, AND Trm-6, CODES AND DESCRIPTIONS, RELOCATED St, & St-Rp, CODES TO ECL & UC SHT. 5 of 6.			AND UNIFORM CODE SHEET	
				SHEET 6 OF 6	
				NO SCALE	NOV., 2007
				NUMBER	DRAWING No.
				EC-L6	52-006

DRAINAGE AREA DESIGNATION	OUTFALL LOCATION	TOTAL DRNG BASIN AC.	DISTURBED ACREAGE	PRECONSTRUCTION									POSTCONSTRUCTION						OUTFALL TYPE
				Q <sub>10</sub>	Q <sub>100</sub>	V <sub>10</sub>	V <sub>100</sub>	H <sub>10</sub>	H <sub>100</sub>	C	Q <sub>10</sub>	Q <sub>100</sub>	V <sub>10</sub>	V <sub>100</sub>	H <sub>10</sub>	H <sub>100</sub>	C		
A	17+65 LT	181.1 AC	1.59 AC	316.2	376.2	5.10	5.38	4.96	5.17	0.25	316.2	376.2	4.15	4.30	5.34	5.62	0.25	BRIDGE	

NOTE: VALUES FOR Q ARE GIVEN IN CFS. VALUES FOR V ARE GIVEN IN F/S.



TOTAL PROJECT AREA = 2.34 ACRES  
 TOTAL DISTURBED AREA = 1.59 ACRES

SYMBOL	NAME	SYMBOL	NAME
AaB	Alluvial sandy loam, 2 to 6 percent slopes	PI	Pits, quarry
AaC	Appling-Hard Labor complex, 6 to 10 percent slopes	ReD	Rion Sandy Loom, 10 to 15 percent slopes
AaE	Ashlar-Rion complex, 6 to 25 percent slopes, stony	ReE	Rion Sandy Loom, 15 to 25 percent slopes
CaA	Cartecay-Toccoa complex, 0 to 2 percent slopes, occasionally flooded	ReF	Rion-Louis complex, 10 to 20 percent slopes, bouldery
CeC2	Cecil sandy loam, 6 to 10 percent slopes, moderately eroded	Ua	Udaribentis, 0 to 10 percent slopes
GaF	Grover-Mountain Park complex, 20 to 60 percent slopes, stony	Ub	Urban land
PaC2	Pacolet-Saw complex, 6 to 10 percent slopes, moderately eroded, bouldery	W	Water

PLANS PREPARED AND SUBMITTED BY:

**AEI**  
 AMERICAN ENGINEERS, INC.  
 www.aei.com

DESIGN CONSULTANT

PROFESSIONAL ENGINEERING

1:24,000

REVISION DATES

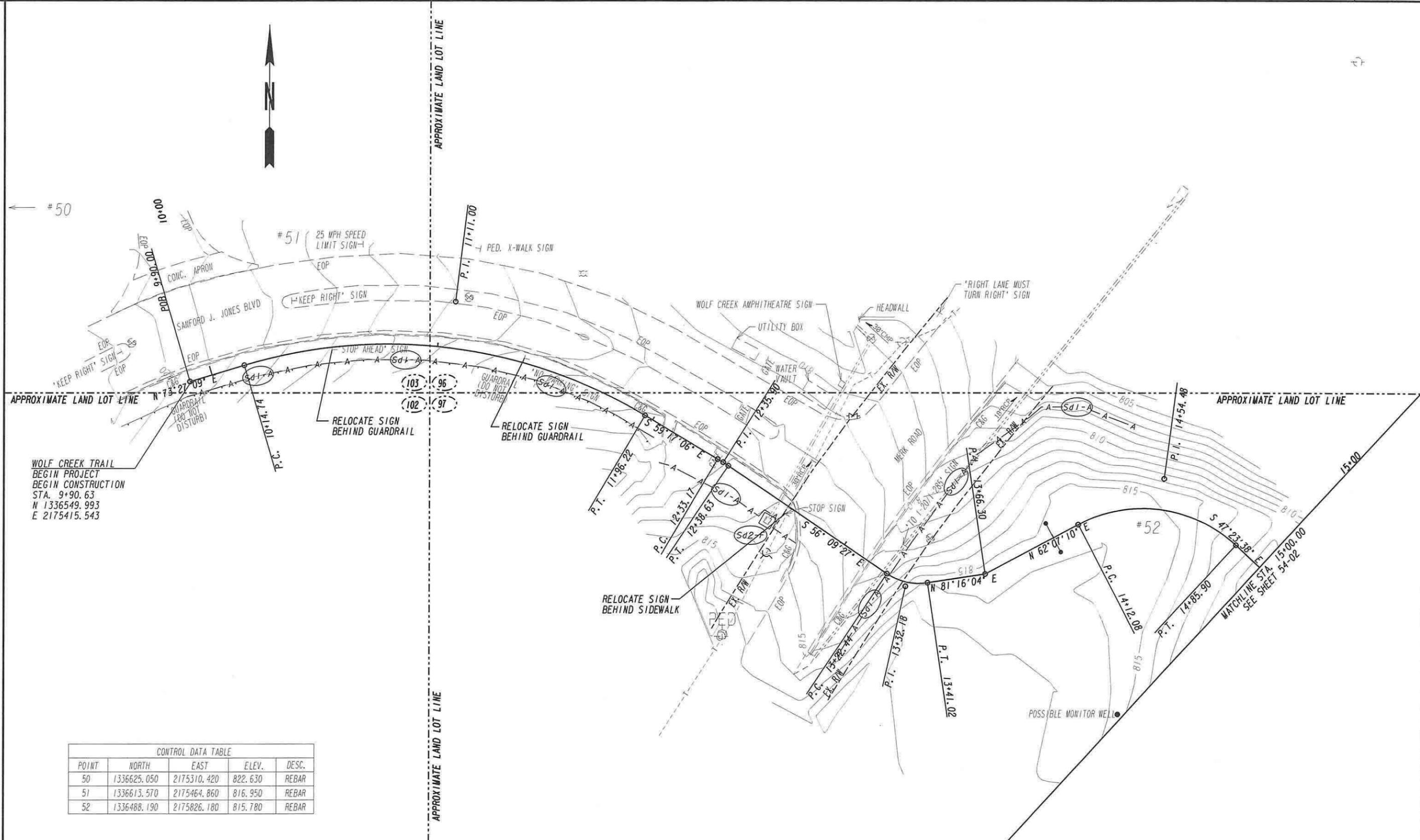
FULTON COUNTY

OFFICE: FACILITIES & TRANSPORTATION SERVICES

**EROSION CONTROL DRAINAGE AREA MAP**

WOLF CREEK MULTI-USE TRAIL

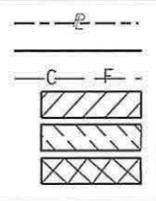
DRAWING No. 53-01



WOLF CREEK TRAIL  
BEGIN PROJECT  
BEGIN CONSTRUCTION  
STA. 9+90.63  
N 1336549.993  
E 2175415.543

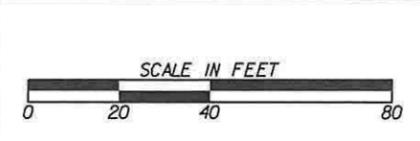
POINT	NORTH	EAST	ELEV.	DESC.
50	1336625.050	2175310.420	822.630	REBAR
51	1336613.570	2175464.860	816.950	REBAR
52	1336488.190	2175826.180	815.780	REBAR

PROPERTY AND EXISTING R/W LINE  
REQUIRED R/W LINE  
CONSTRUCTION LIMITS  
EASEMENT FOR CONSTR  
& MAINTENANCE OF SLOPES  
EASEMENT FOR CONSTR OF SLOPES  
EASEMENT FOR CONSTR OF DRIVES



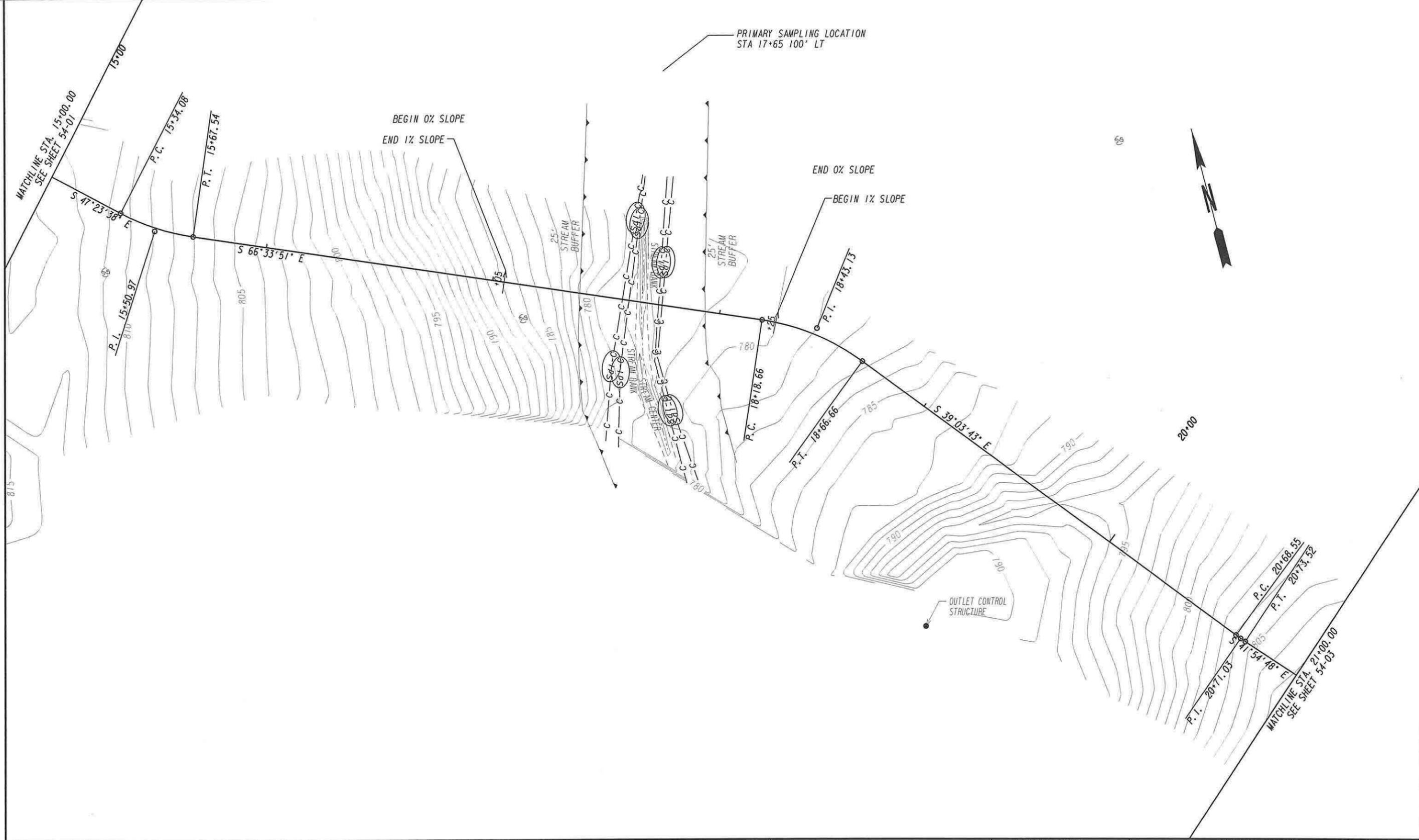
BEGIN LIMIT OF ACCESS.....BLA  
END LIMIT OF ACCESS.....ELA  
LIMIT OF ACCESS  
REQ'D R/W & LIMIT OF ACCESS

PLANS PREPARED AND SUBMITTED BY:  
  
 AMERICAN ENGINEERS, INC.  
 PROFESSIONAL ENGINEERS  
 DESIGN CONSULTANT

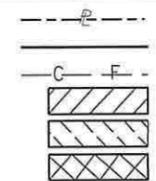


NO.	DATE	DESCRIPTION

FULTON COUNTY  
OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**BMP LOCATION DETAILS**  
**STAGE 1A**  
 WOLF CREEK MULTI-USE TRAIL  
 DRAWING No. 54-01

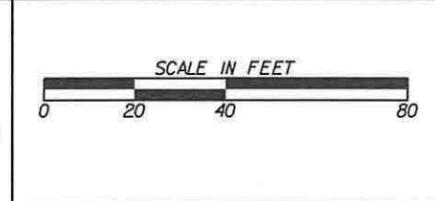


PROPERTY AND EXISTING R/W LINE  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR  
 & MAINTENANCE OF SLOPES  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES



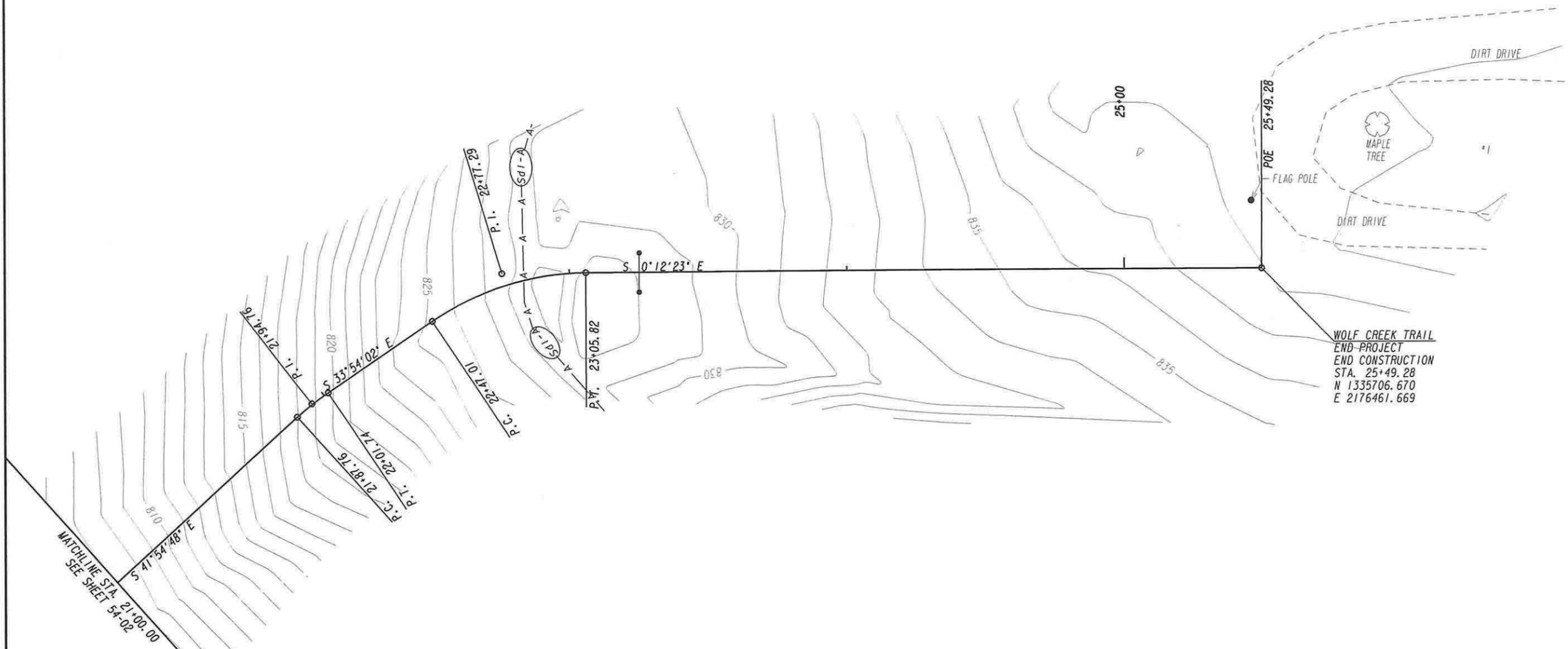
BEGIN LIMIT OF ACCESS.....BLA  
 END LIMIT OF ACCESS.....ELA  
 LIMIT OF ACCESS  
 REQ'D R/W & LIMIT OF ACCESS

PLANS PREPARED AND SUBMITTED BY:  
 American Engineers, Inc.  
 PROFESSIONAL ENGINEERING  
 DESIGN CONSULTANT



REVISION DATES

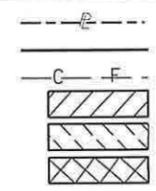
FULTON COUNTY  
 OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**BMP LOCATION DETAILS**  
**STAGE IA**  
 WOLF CREEK MULTI-USE TRAIL  
 DRAWING No. 54-02



WOLF CREEK TRAIL  
END-PROJECT  
END CONSTRUCTION  
STA. 25+49.28  
N 1335706.670  
E 2176461.669

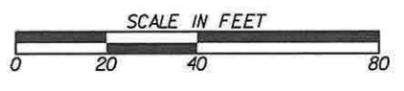
POINT	NORTH	EAST	ELEV.	DESC.
1	1335629.510	2176503.450	839.616	REBAR
2	1335193.610	2176474.390	840.838	REBAR

PROPERTY AND EXISTING R/W LINE  
REQUIRED R/W LINE  
CONSTRUCTION LIMITS  
EASEMENT FOR CONSTR  
& MAINTENANCE OF SLOPES  
EASEMENT FOR CONSTR OF SLOPES  
EASEMENT FOR CONSTR OF DRIVES



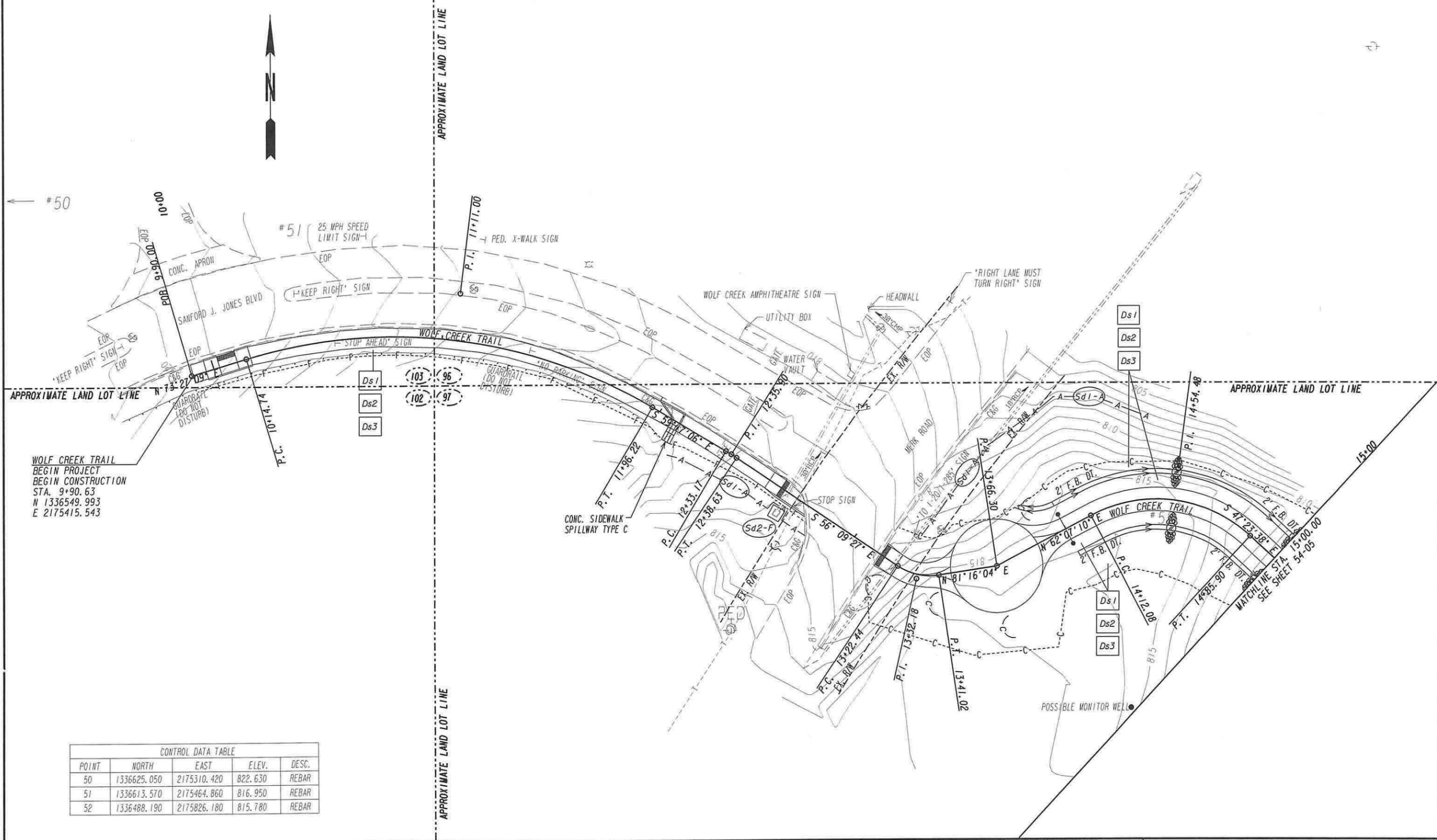
BEGIN LIMIT OF ACCESS.....BLA  
END LIMIT OF ACCESS.....ELA  
LIMIT OF ACCESS  
REQ'D R/W & LIMIT OF ACCESS

PLANS PREPARED AND SUBMITTED BY:  
**AEI**  
AMERICAN ENGINEERS, INC.  
www.aei.cc  
DESIGN CONSULTANT  
PROFESSIONAL ENGINEERING



NO.	DATE	DESCRIPTION

FULTON COUNTY  
OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**BMP LOCATION DETAILS  
STAGE 1A**  
WOLF CREEK MULTI-USE TRAIL  
DRAWING No. 54-03



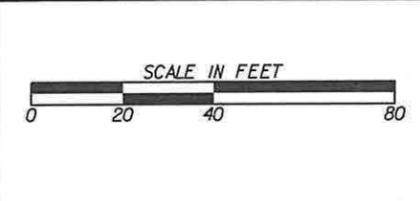
WOLF CREEK TRAIL  
 BEGIN PROJECT  
 BEGIN CONSTRUCTION  
 STA. 9+90.63  
 N 1336549.993  
 E 2175415.543

CONTROL DATA TABLE				
POINT	NORTH	EAST	ELEV.	DESC.
50	1336625.050	2175310.420	822.630	REBAR
51	1336613.570	2175464.860	816.950	REBAR
52	1336488.190	2175826.180	815.780	REBAR

PROPERTY AND EXISTING R/W LINE  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR  
 & MAINTENANCE OF SLOPES  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES

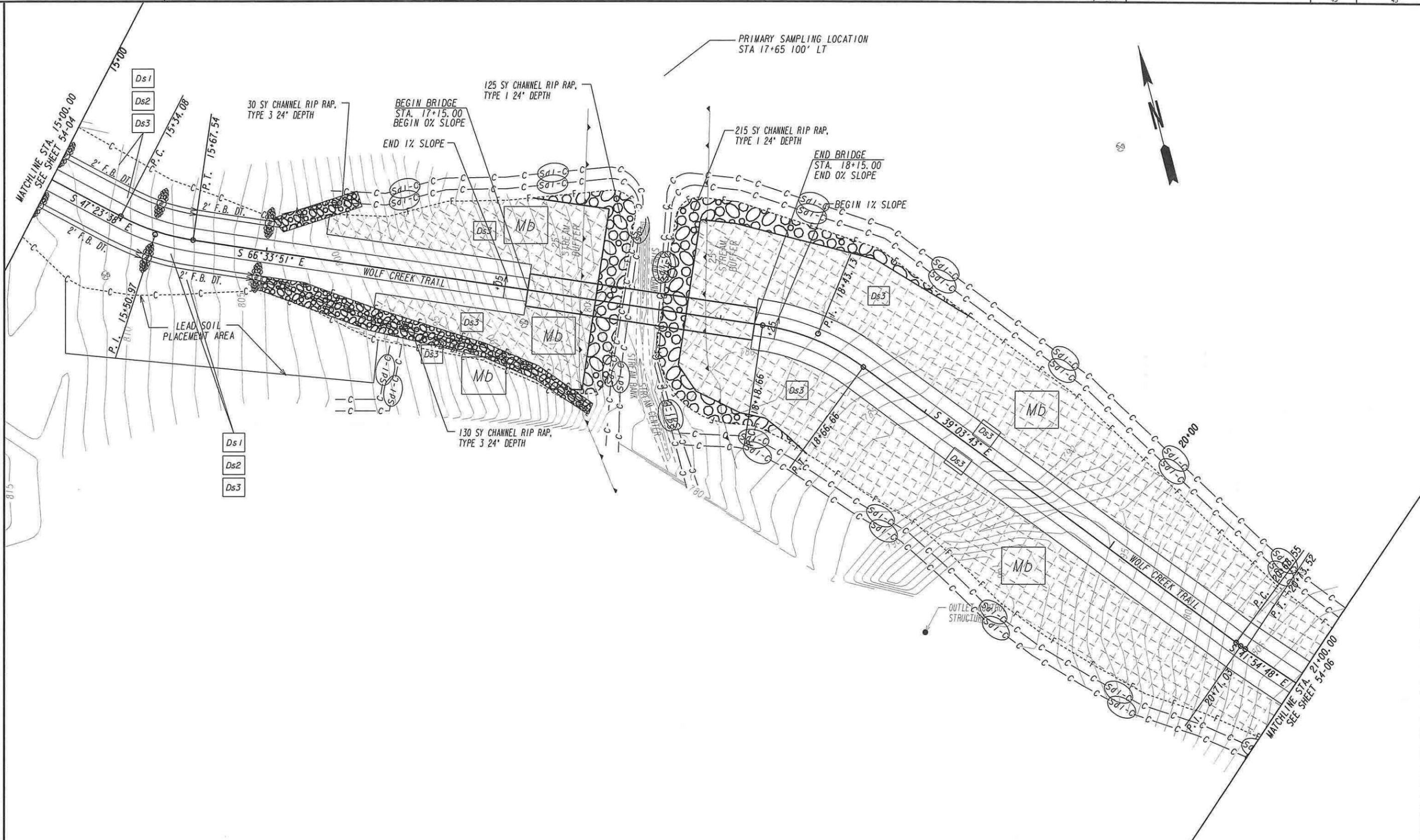
BEGIN LIMIT OF ACCESS.....BLA  
 END LIMIT OF ACCESS.....ELA  
 LIMIT OF ACCESS  
 REQ'D R/W & LIMIT OF ACCESS

PLANS PREPARED AND SUBMITTED BY:  
**AEI**  
 AMERICAN ENGINEERS, INC.  
 PROFESSIONAL ENGINEERING  
 DESIGN CONSULTANT



REVISION DATES	

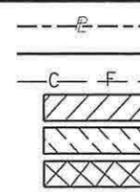
FULTON COUNTY  
 OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**BMP LOCATION DETAILS**  
**STAGE I**  
 WOLF CREEK MULTI-USE TRAIL  
 DRAWING NO. 54-04



PRIMARY SAMPLING LOCATION  
STA 17+65 100' LT

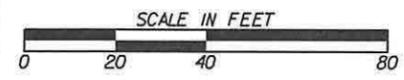


PROPERTY AND EXISTING R/W LINE  
 REQUIRED R/W LINE  
 CONSTRUCTION LIMITS  
 EASEMENT FOR CONSTR  
 & MAINTENANCE OF SLOPES  
 EASEMENT FOR CONSTR OF SLOPES  
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA  
 END LIMIT OF ACCESS.....ELA  
 LIMIT OF ACCESS  
 REQ'D R/W & LIMIT OF ACCESS

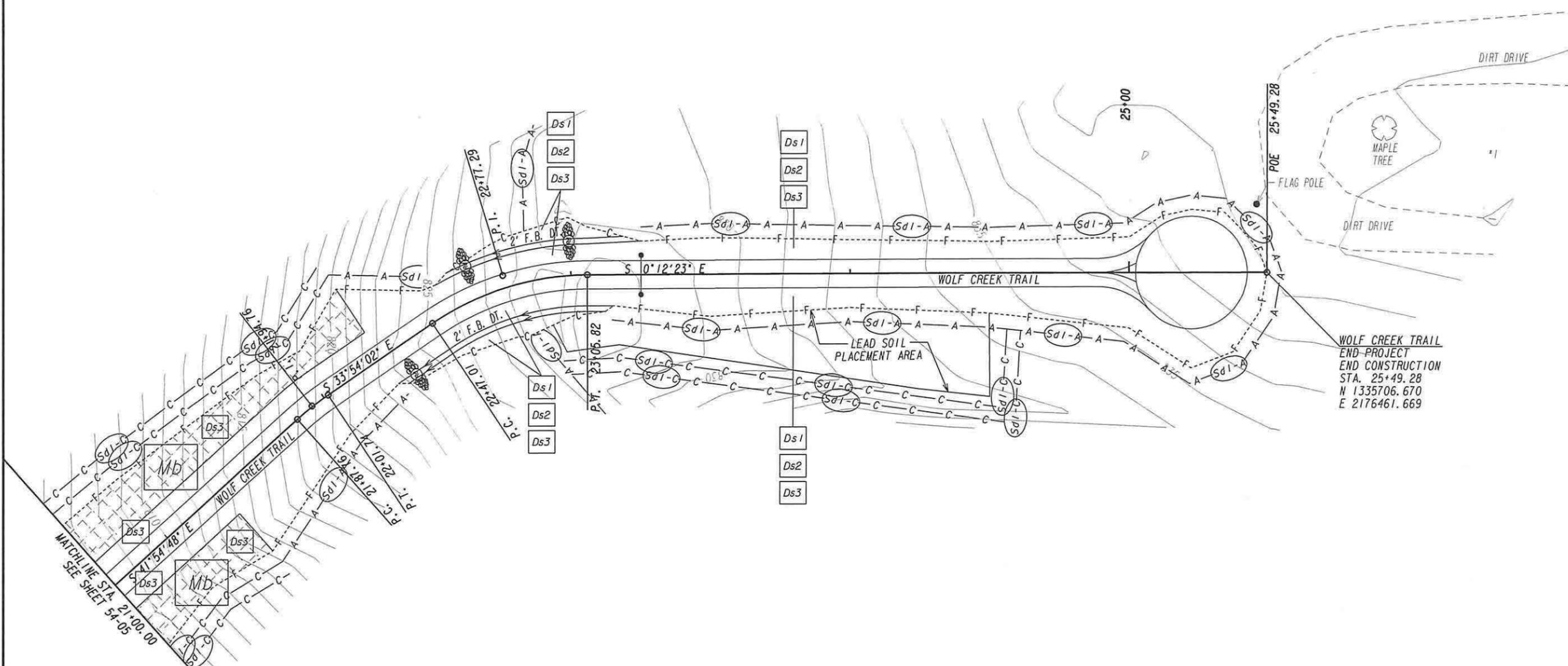
PLANS PREPARED AND SUBMITTED BY:  
**AEI**  
 AMERICAN ENGINEERS, INC.  
 DESIGN CONSULTANT



REVISION DATES

FULTON COUNTY  
 OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**BMP LOCATION DETAILS**  
**STAGE I**  
 WOLF CREEK MULTI-USE TRAIL

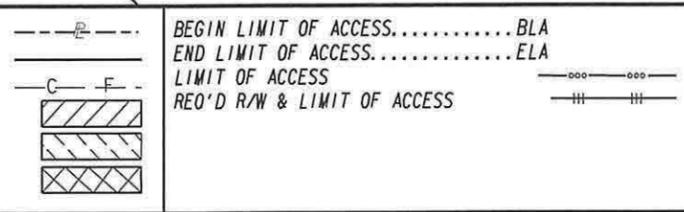
DRAWING No.  
54-05



WOLF CREEK TRAIL  
END-PROJECT  
END CONSTRUCTION  
STA. 25+49.28  
N 1335706.670  
E 2176461.669

POINT	NORTH	EAST	ELEV.	DESC.
1	1335629.510	2176503.450	839.616	REBAR
2	1335193.610	2176474.390	840.838	REBAR

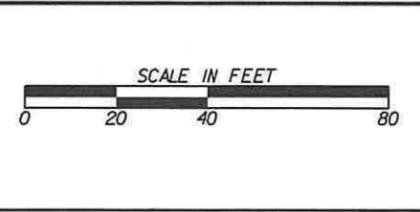
PROPERTY AND EXISTING R/W LINE  
REQUIRED R/W LINE  
CONSTRUCTION LIMITS  
EASEMENT FOR CONSTR  
& MAINTENANCE OF SLOPES  
EASEMENT FOR CONSTR OF SLOPES  
EASEMENT FOR CONSTR OF DRIVES



PLANS PREPARED AND SUBMITTED BY:

**AEI**  
AMERICAN ENGINEERS, INC.  
DESIGN CONSULTANT

PROFESSIONAL ENGINEERING



NO.	DATE	DESCRIPTION

FULTON COUNTY  
OFFICE: FACILITIES & TRANSPORTATION SERVICES  
**BMP LOCATION DETAILS**  
**STAGE I**  
WOLF CREEK MULTI-USE TRAIL

DRAWING No.  
**54-06**



PLANS PREPARED AND SUBMITTED BY:

**AEI**  
 AMERICAN ENGINEERS, INC.  
 DESIGN CONSULTANT

© 65 Aberdeen Drive  
 Glasgow, KY 42041  
 (270) 651-7220

© 2500 Nelson Miler Parkway  
 Louisville, KY 40223  
 (502) 245-3813

© 634 White Circle, Suite 101  
 Morriston, GA 30066  
 (770) 421-8422

PROFESSIONAL ENGINEERING

1:24,000

REVISION DATES	

FULTON COUNTY

OFFICE: FACILITIES & TRANSPORTATION SERVICES

**WATERSHED MAP**  
**SITE MONITORING PLAN**  
 WOLF CREEK MULTI-USE TRAIL

DRAWING No.  
**55-01**