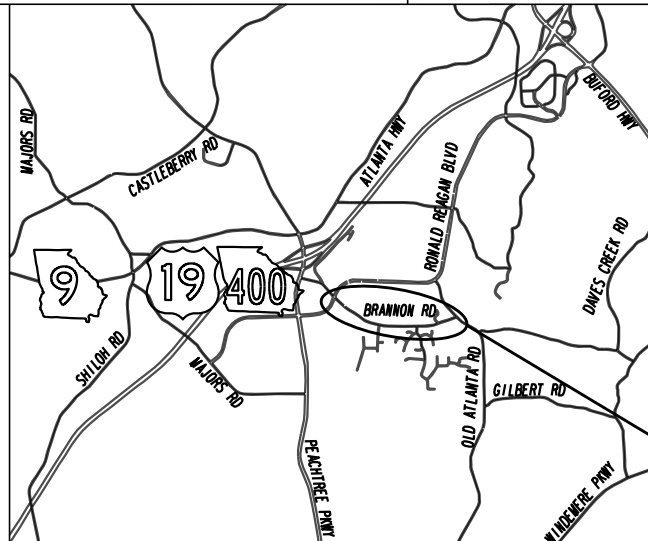


FORSYTH COUNTY TRANSPORTATION & ENGINEERING DEPARTMENT

PLAN AND PROFILE OF PROPOSED BRANNON ROAD SIDEWALK PROJECT RFP #20-95-3150



LOCATION SKETCH

PROJECT LOCATION

LIMIT OF CONSTRUCTION
RONALD REAGAN BOULEVARD
STA. 218+89.99
N: 1511350.3550
E: 2296286.0977

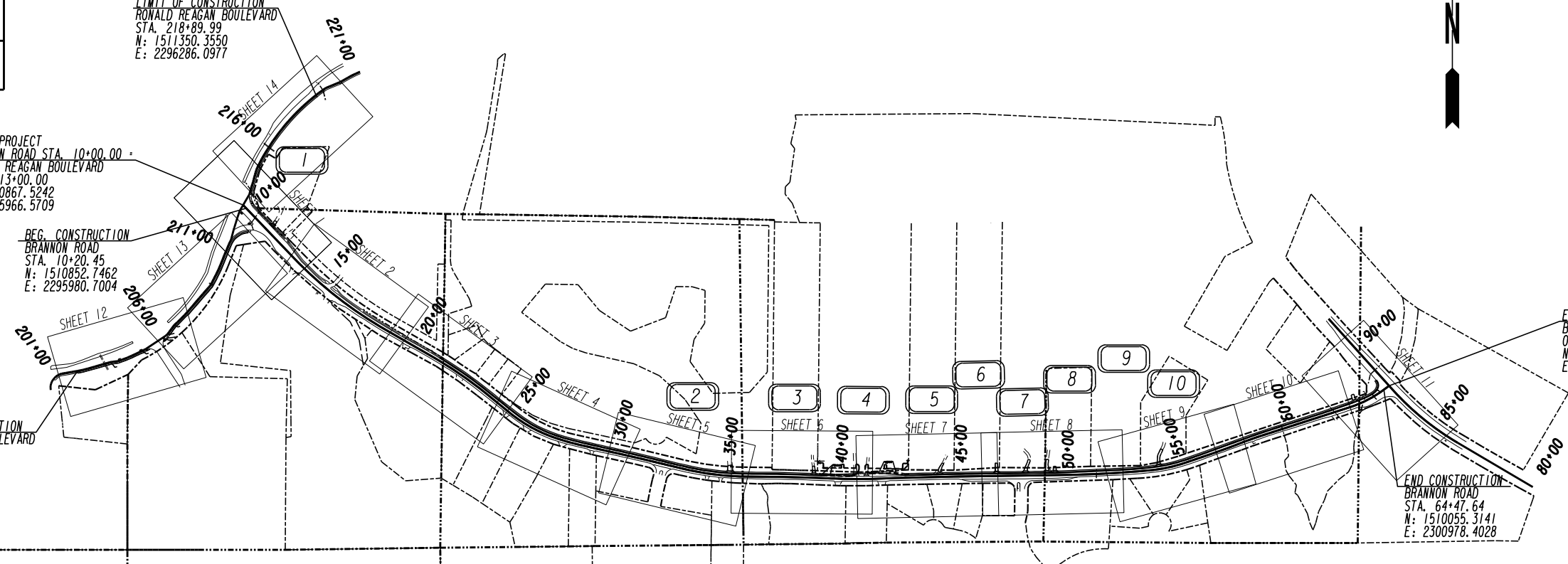
BEGIN PROJECT
BRANNON ROAD STA. 10+00.00 +
RONALD REAGAN BOULEVARD
STA. 213+00.00
N: 1510867.5242
E: 2295966.5709

BEG. CONSTRUCTION
BRANNON ROAD
STA. 10+20.45
N: 1510852.7462
E: 2295980.7004

LIMIT OF CONSTRUCTION
RONALD REAGAN BOULEVARD
STA. 201+99.62
N: 1510138.3253
E: 2295239.0755

END PROJECT
BRANNON ROAD STA. 64+77.08 +
OLD ATLANTA ROAD STA. 87+77.00
N: 1510073.1064
E: 2301001.8592

END CONSTRUCTION
BRANNON ROAD
STA. 64+47.64
N: 1510055.3141
E: 2300978.4028



FUNCTIONAL CLASS:
RURAL COLLECTOR

THIS PROJECT IS 100% IN
FORSYTH COUNTY AND IS
100% IN CONG.DIST.NO.7 .

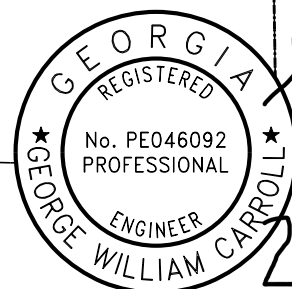
PROJECT DESIGNATION:
DESIGNED IN ENGLISH UNITS.

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.

LENGTH OF PROJECT	COUNTY No.
	Project No.
	MILES
NET LENGTH OF ROADWAY	1.037
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	1.037
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	1.037

PREPARED BY:

DESIGN



George Carroll

2/9/22

PLANS PREPARED AND SUBMITTED BY:



AMERICAN ENGINEERS, INC.

www.aei.cc

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Glasgow, KY 42141
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(502) 245-3813

Branch Offices

5160 Acworth Landing Drive
Acworth, GA 30101
(770) 421-8422

DESIGN CONSULTANT

PROFESSIONAL ENGINEERING

PLANS COMPLETED 2-9-2022

REVISIONS

NO.	DESCRIPTION

SCALE IN FEET



DRAWING No.

01-0001

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

All work shall be done in accordance with the Georgia Department of Transportation Standard and Supplemental Specifications, Current Edition.

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 utility that exists on the highway project in its original, relocated, or newly installed position. All utility facilities which are in conflict with construction and are not covered as specific items in the detailed estimate are to be removed or relocated to clear construction in advance of his work.

Utility work coordination will be required as a part of this contract. The contractor shall be required to use the one-call center telephone number, 1-800-282-7411, for the purpose of coordinating the marking of underground utilities. The contractor's attention is called to Sub-Section 105.06, "Cooperation with Utilities".
The following utilities have facilities in the project area:

Sawnee EMC 404-277-7192 Cumming, GA 30040	Georgia Transmission Corp. 770-270-7743 Tucker, GA 30084	Atlanta Gas Light Resources 404-569-2505 Atlanta, GA 30309
Comcast 770-527-9867 Cumming, GA 30040	AT&T 770-363-7674 Cumming, GA 30040	Forsyth County Water & Sewer Dept 770-781-2160 Cumming, GA 30040

The total acreage shown on the plans for Grading Complete are for information only. Forsyth County Transportation & Engineering assumes no responsibility for its accuracy. The contractor shall bid on Grading Complete lump sum, and it shall be his responsibility to determine the actual acres to be cleared and grubbed. No claims will be considered for extra compensation if the contractor relies on the acres shown on the plans. Costs for items to be removed which do not have a separate pay item shall be included in price bid for Grading Complete - lump sum.

The contractor shall strictly adhere to dust control regulations. All areas subjected to dust formation must be periodically watered, sufficient to retard dust. All costs for dust control shall be included in price bid for clearing and grubbing - lump sum.

The total area shown on the plans for grassing is for information only. Forsyth County Transportation & Engineering assumes no responsibility for its accuracy. The contractor shall bid on grassing complete, lump sum, and it shall be his responsibility to determine the actual area to be grassed. No claims will be considered for extra compensation if the contractor relies on the area shown on the plans.

Ingress and egress shall be maintained at all times to adjacent properties. Refer to Sub-Section 107.07 of the Standard Specifications.

It shall be the contractor's responsibility to furnish suitable borrow material for the project and dispose of any unsuitable or waste material.

Horizontal control is based upon Georgia State Plane Coordinate System. See plans for locations and descriptions of monuments used.

Forsyth County expects to have other contracts under construction during the life of this contract. The contractor's attention is called to Sub-Section 105.07 of the Standard Specifications "Cooperation Between Contractors". The engineer shall be expected to coordinate the interface and cooperation between contractors.

All driveways, where access is allowed, shall be placed as directed by the engineer in accordance with rules and regulations for control and protection of Forsyth County rights-of-way. All driveways that are to be reconstructed shall be replaced, in kind, i.e., asphalt for asphalt, and concrete for concrete, or in the case of earth driveways, asphalt for earth. The driveway locations indicated on the plans are from the best available data. The contractor shall construct new driveways to match the actual field location of existing driveways where they are not in conflict with the rules and regulations. The contractor shall obtain the approval of the engineer prior to making any revisions such as to location, width and/or number of drives to be constructed. Asphaltic and unpaved driveways shall be paved to their construction limits. Where required, the drives shall be paved as follows:

Asphaltic Drives -
Residential -
1-1/2" recycled asphaltic concrete, Super pave GP2
only incl. bituminous material and H. lime
6" graded aggregate base

Commercial -
1-1/2" recycled asphaltic concrete, Super pave GP2
only incl. bituminous material and H. lime
2" asphaltic concrete "B"
8" graded aggregate base

Concrete Drives
Residential -
6" concrete valley gutter
6" concrete driveway

Commercial -
8" concrete valley gutter
8" concrete driveway

This project lies within the limits of an insect infested area. The contractor's attention is called to the following Sub-Sections or Special Provisions to the standard specifications: A) Sub-Section 107.13D 0 Insect Control Regulations; B) Sub-Section 155 - Insect Control; and C) Sub-Section 893 - Miscellaneous Planting.

The contractor shall observe all applicable local, state, and federal safety regulations regarding pipe installation in trenches. No separate payment will be made for any cost incurred to comply with this requirement.

All existing pipe shall be removed unless otherwise noted on plans, or as directed by the engineer. Costs for removal shall be included in the price bid for Grading Complete.

In areas where Type 2 curb is used, drainage structures 1033D and 1034D will be required.

At locations where new pavement is to be placed adjacent to existing pavement without an overlay or where curbing is to be placed across a paved area, a joint shall be sawn on a line established by the engineer to ensure pavement removal to a neat line. Costs for sawn joints, when required, shall be included in price bid for other contract items, except when sawing PCC concrete pavement.

Where existing pavement markings and lines are in conflict with the traffic pattern being used on construction, the contractor shall remove or overlay lines to the satisfaction of the engineer such that the lines do not confuse the traveling public. All remaining lines or markings shall be in accordance with the "Manual on Uniform Traffic Control Devices" or as directed by the engineer. Traffic shall not be allowed on any pavement not properly striped.

The contractor's attention is directed to Articles 104.05 and 107.07 of the standard specifications and the special provisions for traffic control and sequence of operations in regards to maintenance of traffic during construction.

Price bid for traffic control - lump sum shall include, but is not limited to, construction, maintenance, and removal of temporary signing and pavement markings, barricades, channelizing devices, etc. required for maintenance of traffic during construction. All temporary signing and pavement marking shall be in accordance with the "Manual on Uniform Traffic Control Devices", current edition and/or as directed by the engineer.

Handicap ramps shall be constructed at all points where sidewalk terminates at curb or is bisected by driveways. If necessary, the exact type of ramp, (terminal or on curb radius) may be modified as directed by the engineer.

All cut and fill slopes shall be stabilized to comply with section 161.3.05.B of the specifications in order to reduce the potential for erosion. If the season does not permit permanent grassing, temporary straw, mulch and/or temporary vegetation shall be used as per the erosion and sedimentation pollution control plan (ESPCP) or as directed by the engineer.

The contractor shall ensure that positive and adequate drainage is maintained at all times within the project limits. This may include, but not be limited to, replacement or reconstruction of existing drainage structures that have been damaged or removed or re grading as required by the engineer, except for those drainage items shown at specific locations in the plans and having specific pay items in the detailed estimate. No separate payment will be made for any costs incurred to comply with this requirement.

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 or as directed by the engineer. All silt fences must be placed as access is obtained during clearing. No grading shall be done until silt fence installation is complete. It is the contractor's responsibility to maintain all silt fences and to repair or replace any silt fence that is not satisfactory. All erosion control devices shall be placed according to the plans, and as directed by the engineer. See Georgia Standard Specifications, current edition regarding erosion control. The contractor shall be responsible to keep wetland areas free from siltation. The contractor shall obtain and abide by all Corps of Engineers rules and regulations concerning construction adjacent to waterways and maintain water quality.

This project has a total area of 5.28 acres, and the expected disturbed area is 2.43 acres.

The contractor will be responsible for pre-marking all signing, striping, guardrail and handicap ramps. After pre-marking is complete and 72 hrs. in advance of installation, the contractor shall notify the Forsyth Department of Transportation's Operations and Maintenance Division for approval. This shall be coordinated with the project engineer.

Any fence and/or gate within the construction limits shall be replaced in like kind and reset to its original location. All other related costs for its construction, are to be included in the total cost for grading complete.

Soil test shall be conducted to identify and to implement site-specific fertilizer needs.



Know what's below.
Call before you dig.

PLANS PREPARED AND SUBMITTED BY:

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AMERICAN ENGINEERS, INC.
www.aei.cc

DESIGN CONSULTANT

Branch Office:
 O 65 Aberdeen Drive
 Glasgow, KY 40324
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 O 2500 Nelson Miller Parkway
 Louisville, KY 40223
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 O 5160 Acworth Landing Drive
 Acworth, GA 30092
 (770) 421-8422

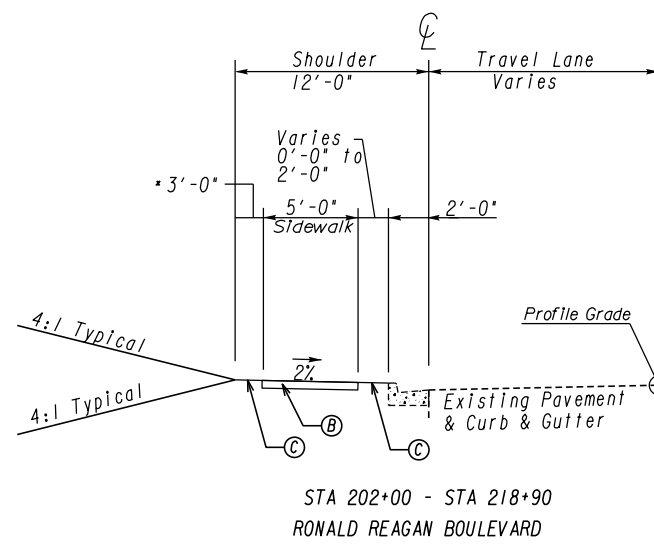
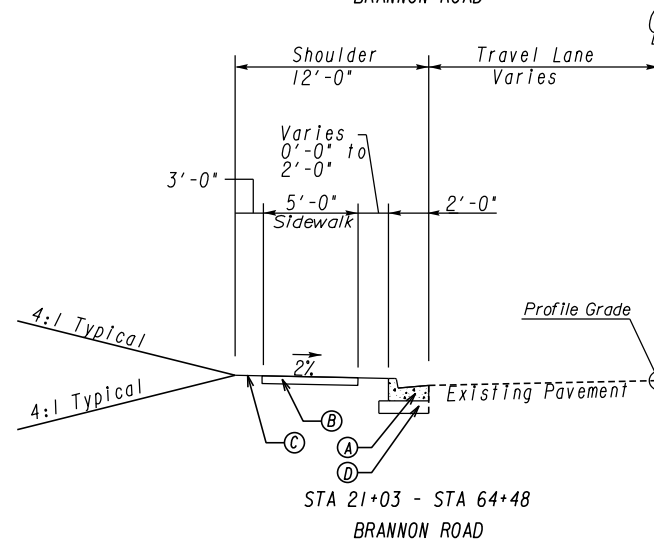
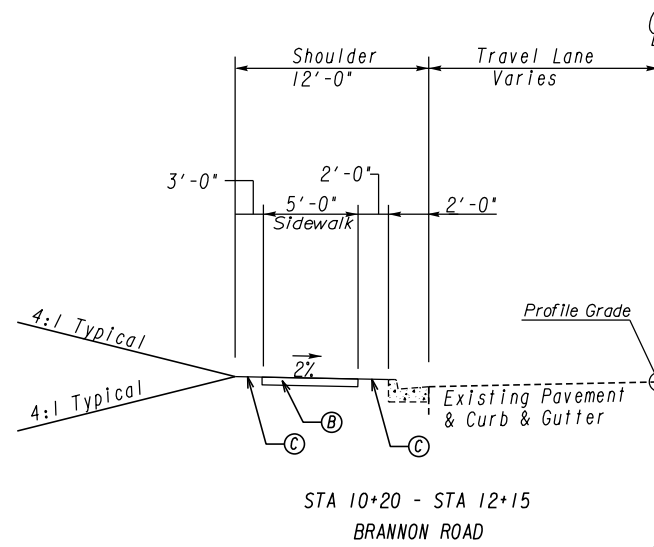
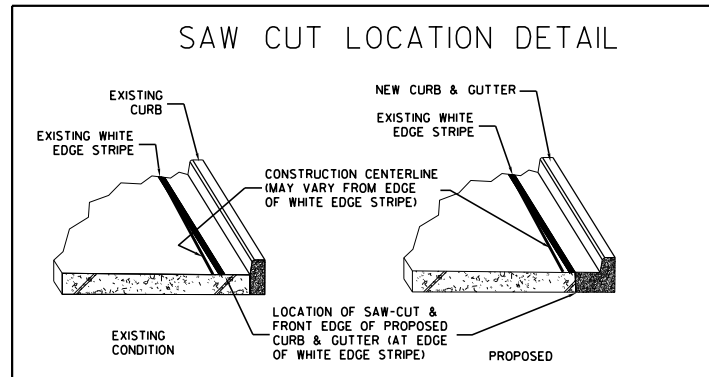
PROFESSIONAL ENGINEERING

REVISION DATES

GENERAL NOTES

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	04-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



- (A) CONC CURB & GUTTER, 8 IN X 24 IN, TP 2
- (B) CONC SIDEWALK, 4 IN
- (C) SODDING
- (D) GRADED AGGREGATE BASE, 6 IN

* SHORTEN TO 1'0" WHERE EXISTING GUARDRAIL IS PRESENT

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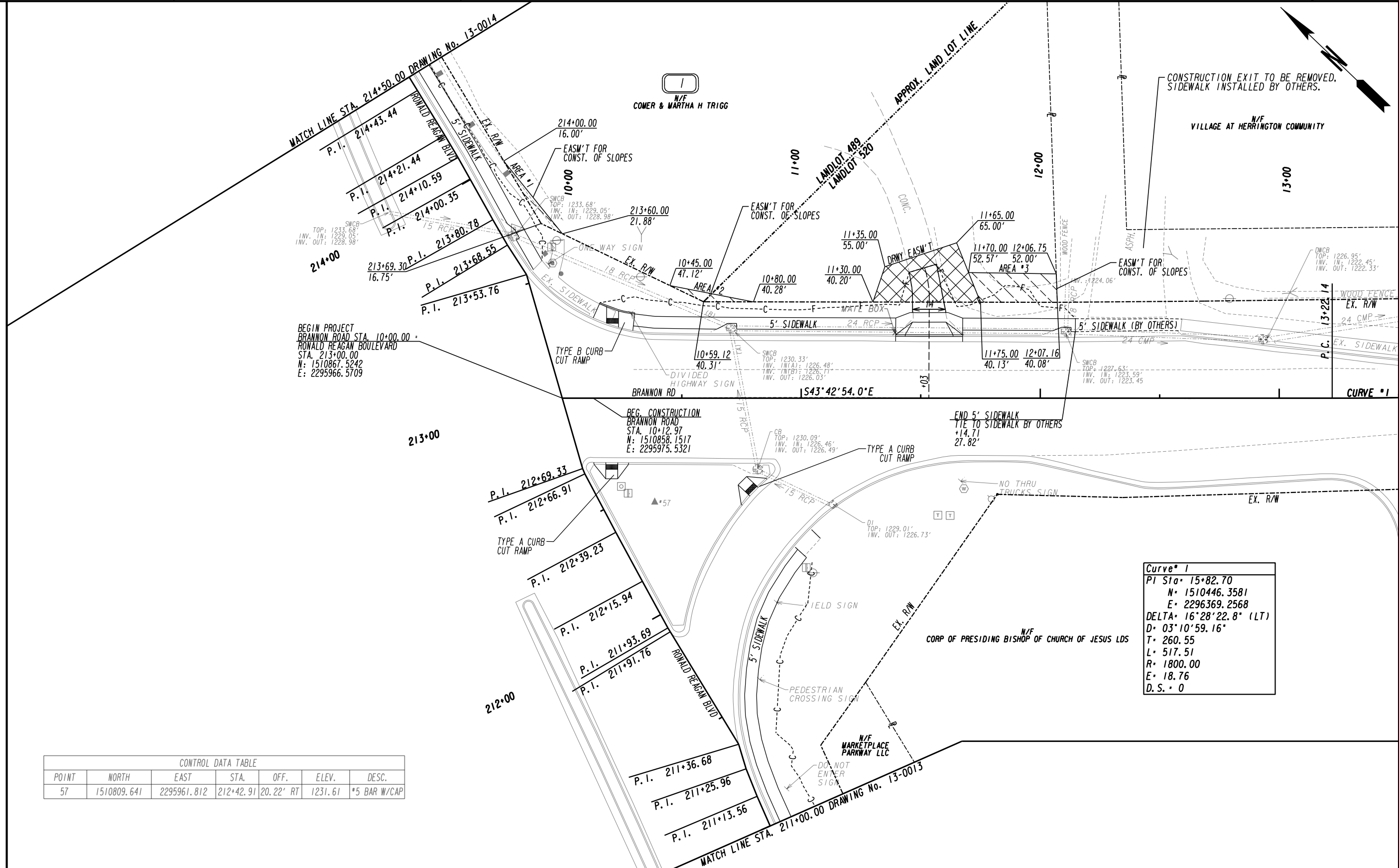
Branch Office
 5150 Acworth Landing Drive
 Acworth, GA 30092
 (770) 421-8422

65 Aberdeen Drive
 Glasgow, KY 40304
 (270) 651-7220

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

PROFESSIONAL ENGINEERING

REVISION DATES		TYPICAL SECTIONS	
		BRANNON ROAD	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	05-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



BEGIN PROJECT
BRANNON ROAD STA. 10+00.00
RONALD REAGAN BOULEVARD
STA. 213+00.00
N: 1510867.5242
E: 2295966.5709

BEG. CONSTRUCTION
BRANNON ROAD
STA. 10+12.97
N: 1510858.1517
E: 2295975.5321

Curve # 1	
PI Sta	15+82.70
N	1510446.3581
E	2296369.2568
DELTA	16°28'22.8" (LT)
D	03°10'59.16"
T	260.55
L	517.51
R	1800.00
E	18.76
D.S.	0

CONTROL DATA TABLE						
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57	1510809.641	2295961.812	212+42.91	20.22' RT	1231.61	*5 BAR W/CAP

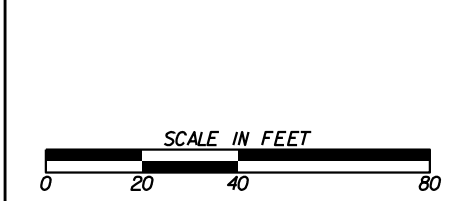
PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

-----e-----
-C-F-
[Hatched Box]
[Hatched Box]
[Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

PLANS PREPARED AND SUBMITTED BY:
[Logo]
O 65 Aberdeen Drive
Dunwoody, KY 40424
(270) 651-7220
O 2500 Nelson Miller Parkway
Louisville, KY 40223
(502) 245-3883
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

O 560 Acworth Landing Drive
Acworth, GA 30096
(770) 421-8422
PROFESSIONAL ENGINEERING



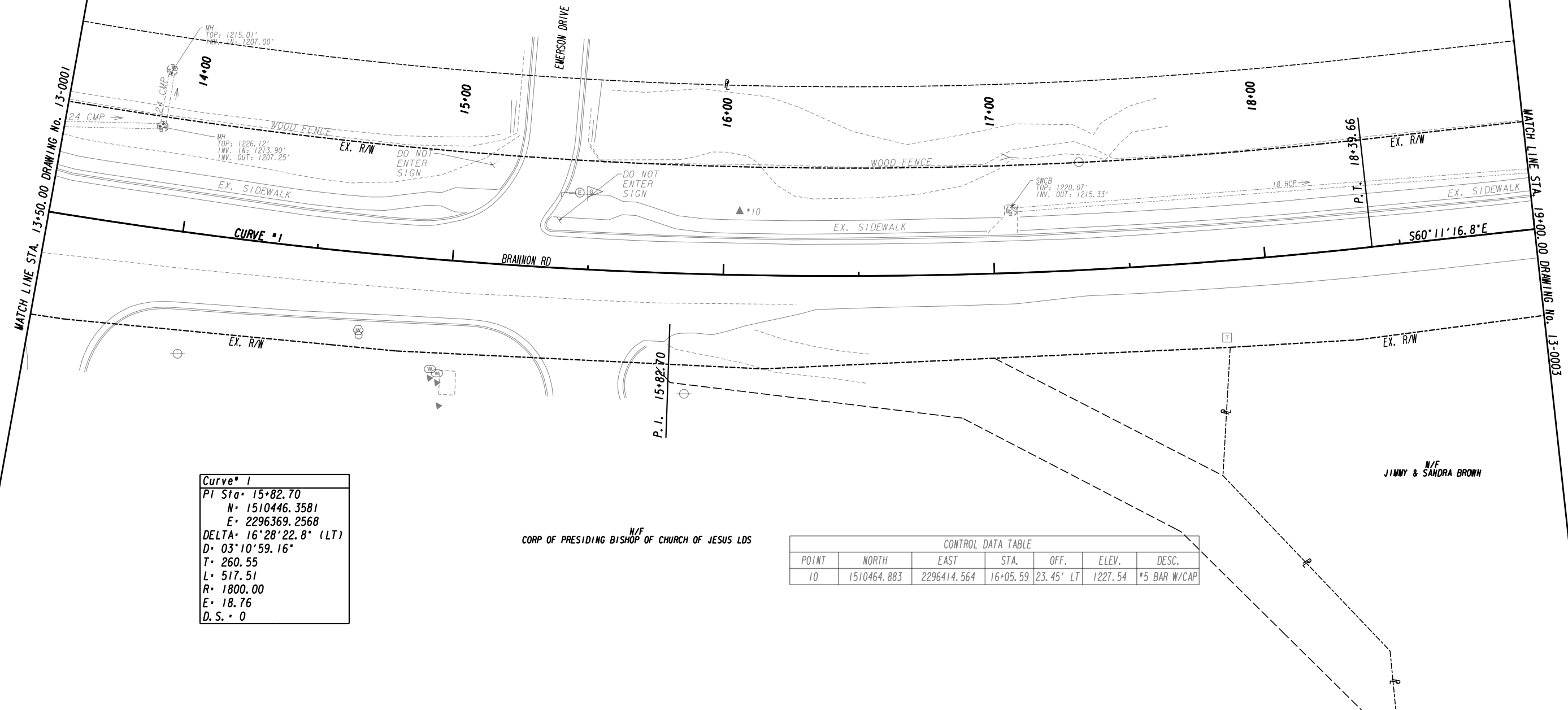
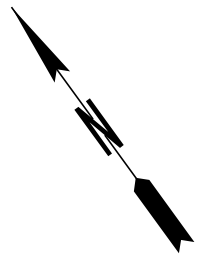
REVISION DATES	

CONSTRUCTION PLAN
BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

MATCH LINE STA. 13+50.00 DRAWING No. 13-0002

N/F
VILLAGE AT HERRINGTON COMMUNITY
NO WORK TO BE DONE FROM STA. 12+15 TO STA. 21+03.



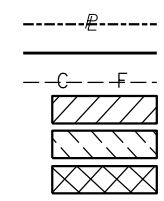
Curve # 1	
PI Sta	15+82.70
N	1510446.3581
E	2296369.2568
DELTA	16°28'22.8" (LT)
D	03°10'59.16"
T	260.55
L	517.51
R	1800.00
E	18.76
D.S.	0

N/F
CORP OF PRESIDING BISHOP OF CHURCH OF JESUS LDS

N/F
JIMMY & SANDRA BROWN

CONTROL DATA TABLE						
POINT	NORTH	EAST	STA.	OFF.	ELEV.	DESC.
10	1510464.883	2296414.564	16+05.59	23.45' LT	1227.54	*5 BAR W/CAP

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
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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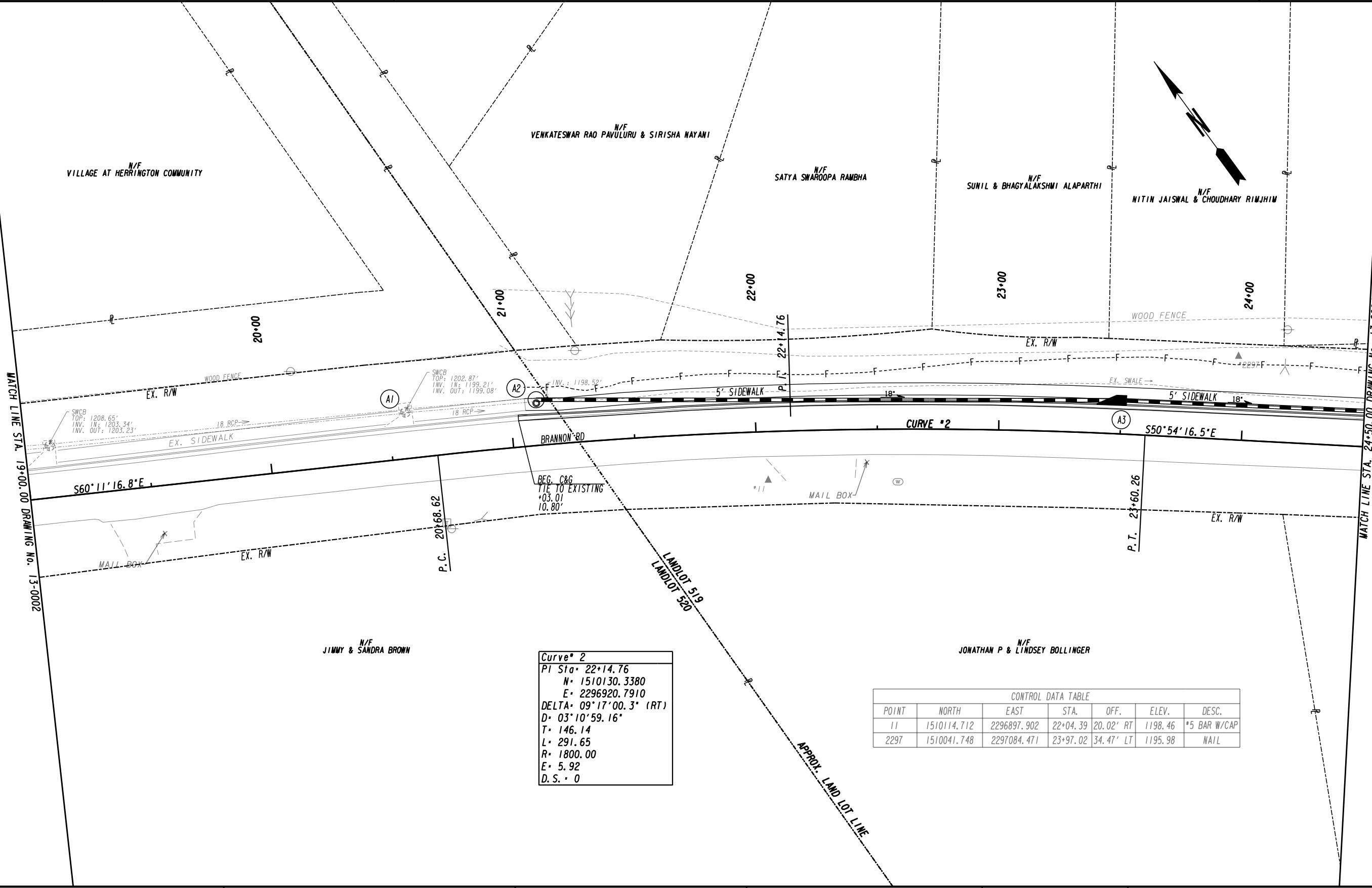


REVISION DATES	

CONSTRUCTION PLAN

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



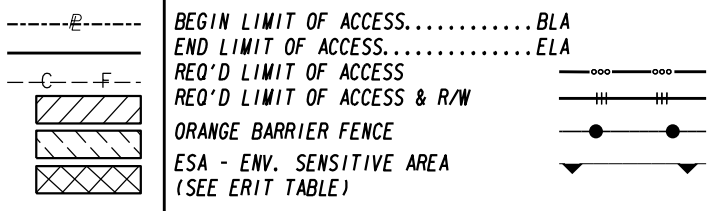
Curve # 2

PI Sta	22+14.76
N	1510130.3380
E	2296920.7910
DELTA	09° 17' 00.3" (RT)
D	03° 10' 59.16"
T	146.14
L	291.65
R	1800.00
E	5.92
D. S.	0

CONTROL DATA TABLE

POINT	NORTH	EAST	STA.	OFF.	ELEV.	DESC.
11	1510114.712	2296897.902	22+04.39	20.02' RT	1198.46	*5 BAR W/CAP
2297	1510041.748	2297084.471	23+97.02	34.47' LT	1195.98	NAIL

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



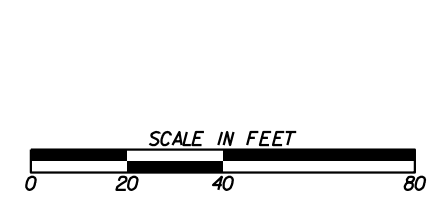
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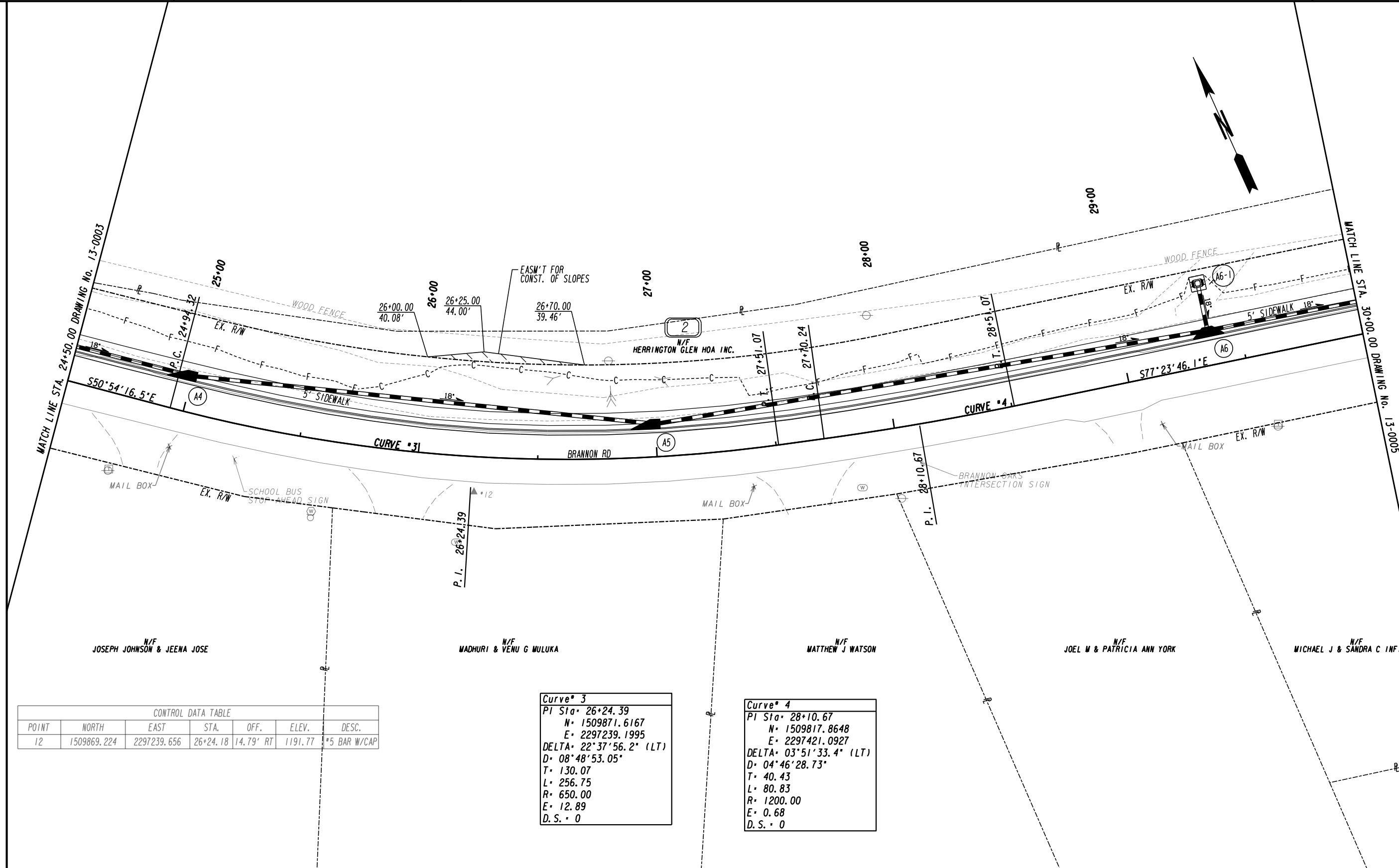


REVISION DATES

CONSTRUCTION PLAN

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	



CONTROL DATA TABLE

POINT	NORTH	EAST	STA.	OFF.	ELEV.	DESC.
12	1509869.224	2297239.656	26+24.18	14.79' RT	1191.77	*5 BAR W/CAP

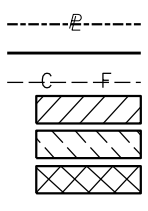
Curve # 3

PI Sta	26+24.39
N	1509871.6167
E	2297239.1995
DELTA	22°37'56.2" (LT)
D	08°48'53.05"
T	130.07
L	256.75
R	650.00
E	12.89
D.S.	0

Curve # 4

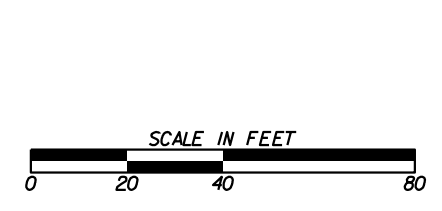
PI Sta	28+10.67
N	1509817.8648
E	2297421.0927
DELTA	03°51'33.4" (LT)
D	04°46'28.73"
T	40.43
L	80.83
R	1200.00
E	0.68
D.S.	0

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
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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

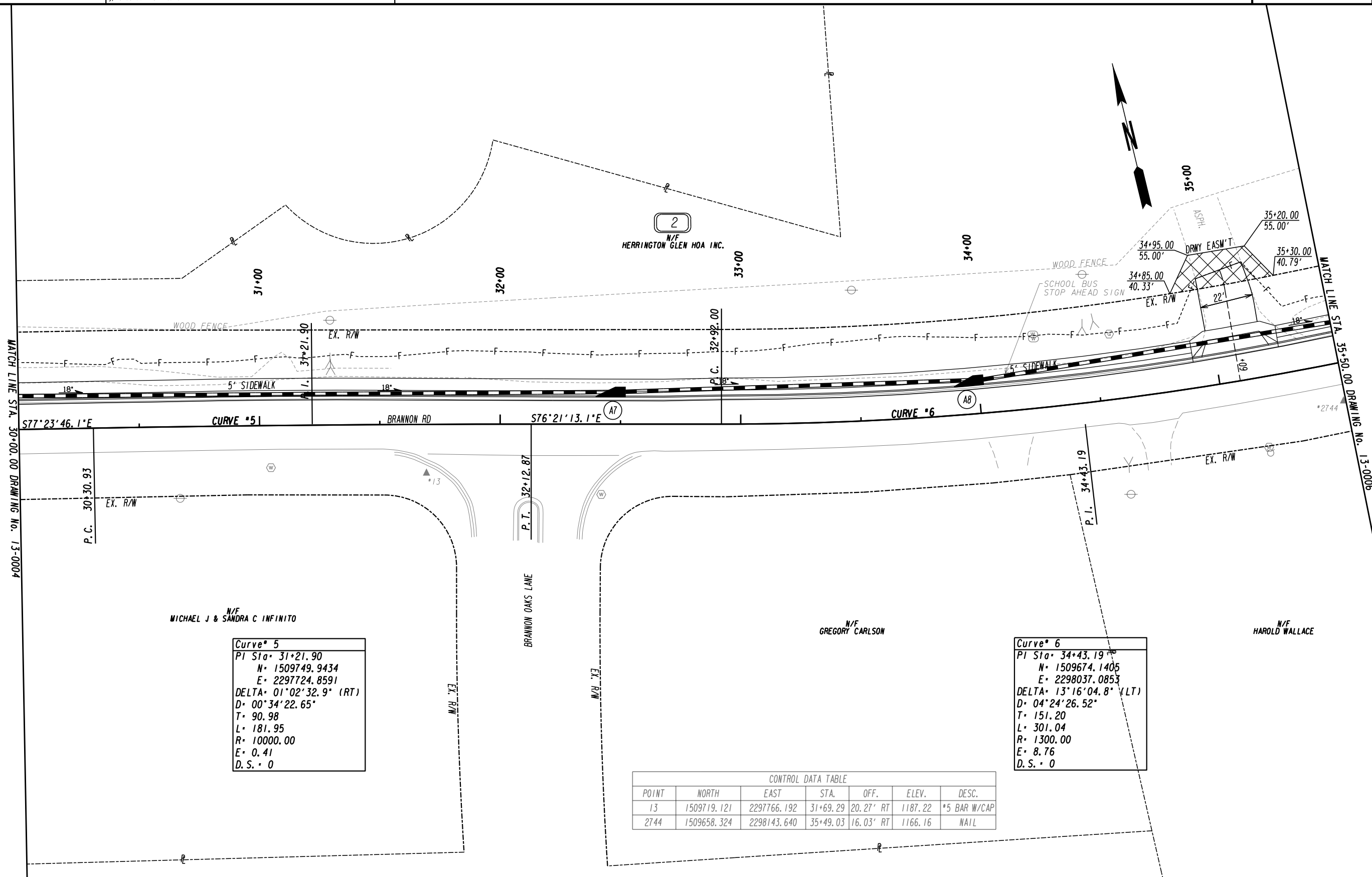


REVISION DATES

NO.	DATE	DESCRIPTION

CONSTRUCTION PLAN
 BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Curve # 5

PI Sta	31+21.90
N	1509749.9434
E	2297724.8591
DELTA	01°02'32.9" (RT)
D	00°34'22.65"
T	90.98
L	181.95
R	10000.00
E	0.41
D.S.	0

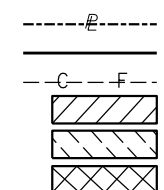
Curve # 6

PI Sta	34+43.19
N	1509674.1405
E	2298037.0853
DELTA	13°16'04.8" (LT)
D	04°24'26.52"
T	151.20
L	301.04
R	1300.00
E	8.76
D.S.	0

CONTROL DATA TABLE

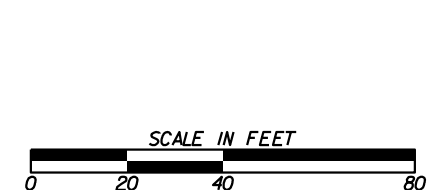
POINT	NORTH	EAST	STA.	OFF.	ELEV.	DESC.
13	1509719.121	2297766.192	31+69.29	20.27' RT	1187.22	*5 BAR W/CAP
2744	1509658.324	2298143.640	35+49.03	16.03' RT	1166.16	NAIL

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
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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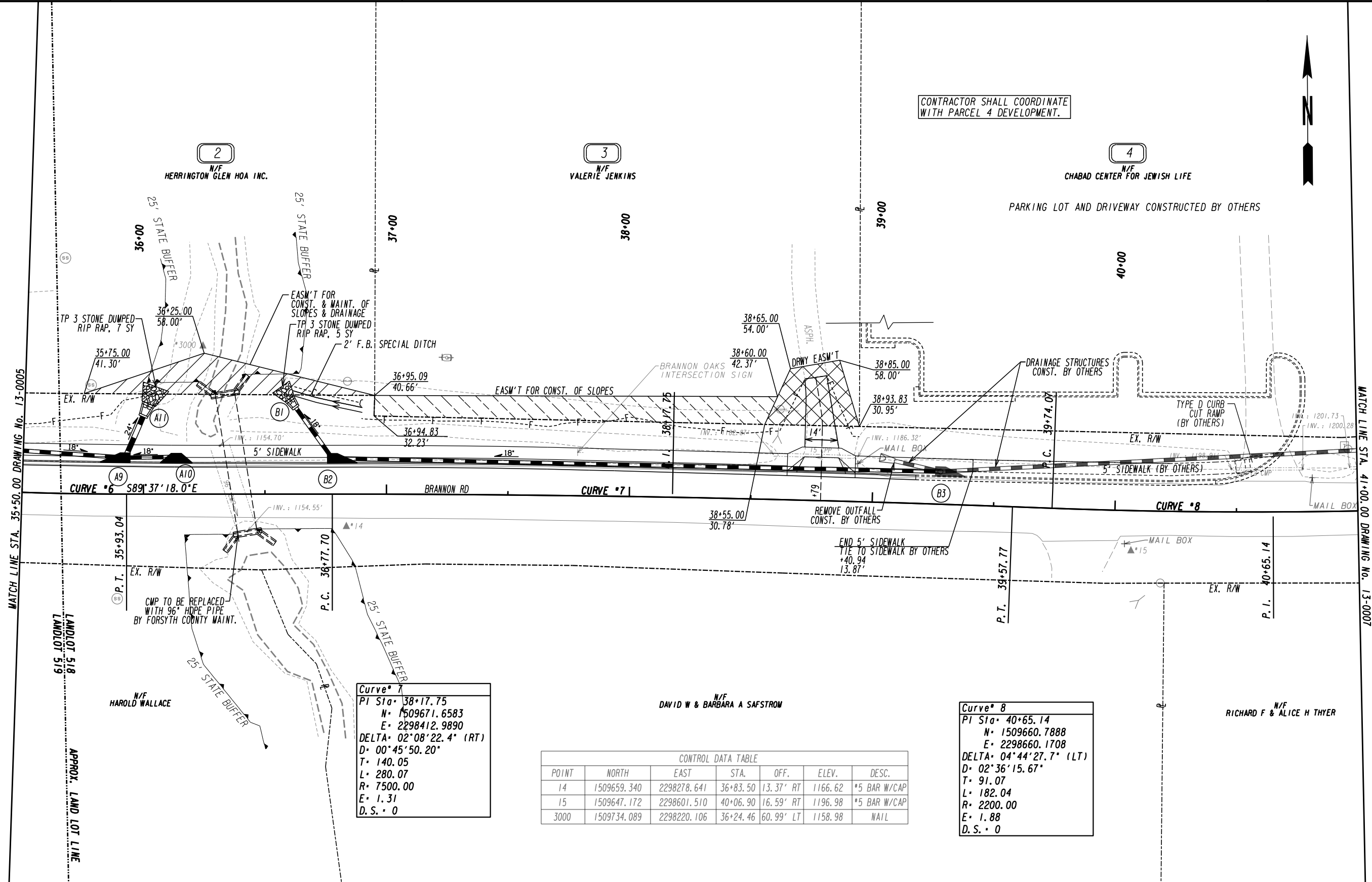


REVISION DATES

NO.	DATE	DESCRIPTION

CONSTRUCTION PLAN
 BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	



CONTRACTOR SHALL COORDINATE WITH PARCEL 4 DEVELOPMENT.



MATCH LINE STA. 35+50.00 DRAWING No. 13-0005

MATCH LINE STA. 41+00.00 DRAWING No. 13-0007

Curve # 7
 PI Sta. 38+17.75
 N = 1509671.6583
 E = 2298412.9890
 DELTA = 02°08'22.4" (RT)
 D = 00°45'50.20"
 T = 140.05
 L = 280.07
 R = 7500.00
 E = 1.31
 D.S. = 0

CONTROL DATA TABLE						
POINT	NORTH	EAST	STA.	OFF.	ELEV.	DESC.
14	1509659.340	2298278.641	36+83.50	13.37' RT	1166.62	*5 BAR W/CAP
15	1509647.172	2298601.510	40+06.90	16.59' RT	1196.98	*5 BAR W/CAP
3000	1509734.089	2298220.106	36+24.46	60.99' LT	1158.98	NAIL

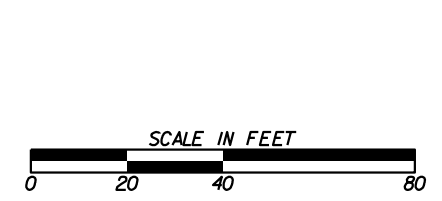
Curve # 8
 PI Sta. 40+65.14
 N = 1509660.7888
 E = 2298660.1708
 DELTA = 04°44'27.7" (LT)
 D = 02°36'15.67"
 T = 91.07
 L = 182.04
 R = 2200.00
 E = 1.88
 D.S. = 0

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
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

PLANS PREPARED AND SUBMITTED BY:

 AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT
 PROFESSIONAL ENGINEERING



REVISION DATES	

CONSTRUCTION PLAN
 BRANNON ROAD
 CHECKED: _____ DATE: _____
 BACKCHECKED: _____ DATE: _____
 CORRECTED: _____ DATE: _____
 VERIFIED: _____ DATE: _____
 DRAWING No. 13-0006

CONTRACTOR SHALL COORDINATE
WITH PARCEL 4 DEVELOPMENT.

4

N/F
CHABAD CENTER FOR JEWISH LIFE

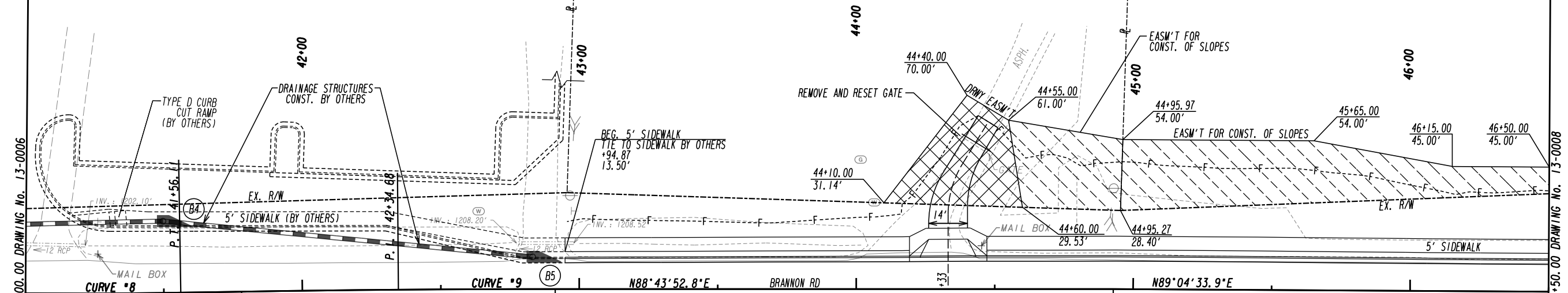
PARKING LOT AND DRIVEWAY CONSTRUCTED BY OTHERS

5

N/F
PXBE LLC

6

N/F
DANIEL B & CAROL W THALIMER



MATCH LINE STA. 41+00.00 DRAWING No. 13-0006

MATCH LINE STA. 46+50.00 DRAWING No. 13-0008

Curve # 9

PI Sta	42+34.68
N	1509667.3695
E	2298829.6877
DELTA	00°57'16.1" (RT)
D	00°50'33.31"
T	56.64
L	113.28
R	6800.00
E	0.24
D.S.	0

CONTROL DATA TABLE

POINT	NORTH	EAST	STA.	OFF.	ELEV.	DESC.
16	1509658.532	2299006.822	44+11.58	12.92' RT	1213.08	*5 BAR W/CAP

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
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

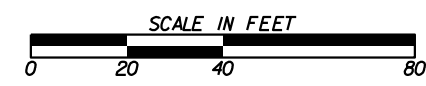
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 Louisville, KY 40223
 (502) 245-3853

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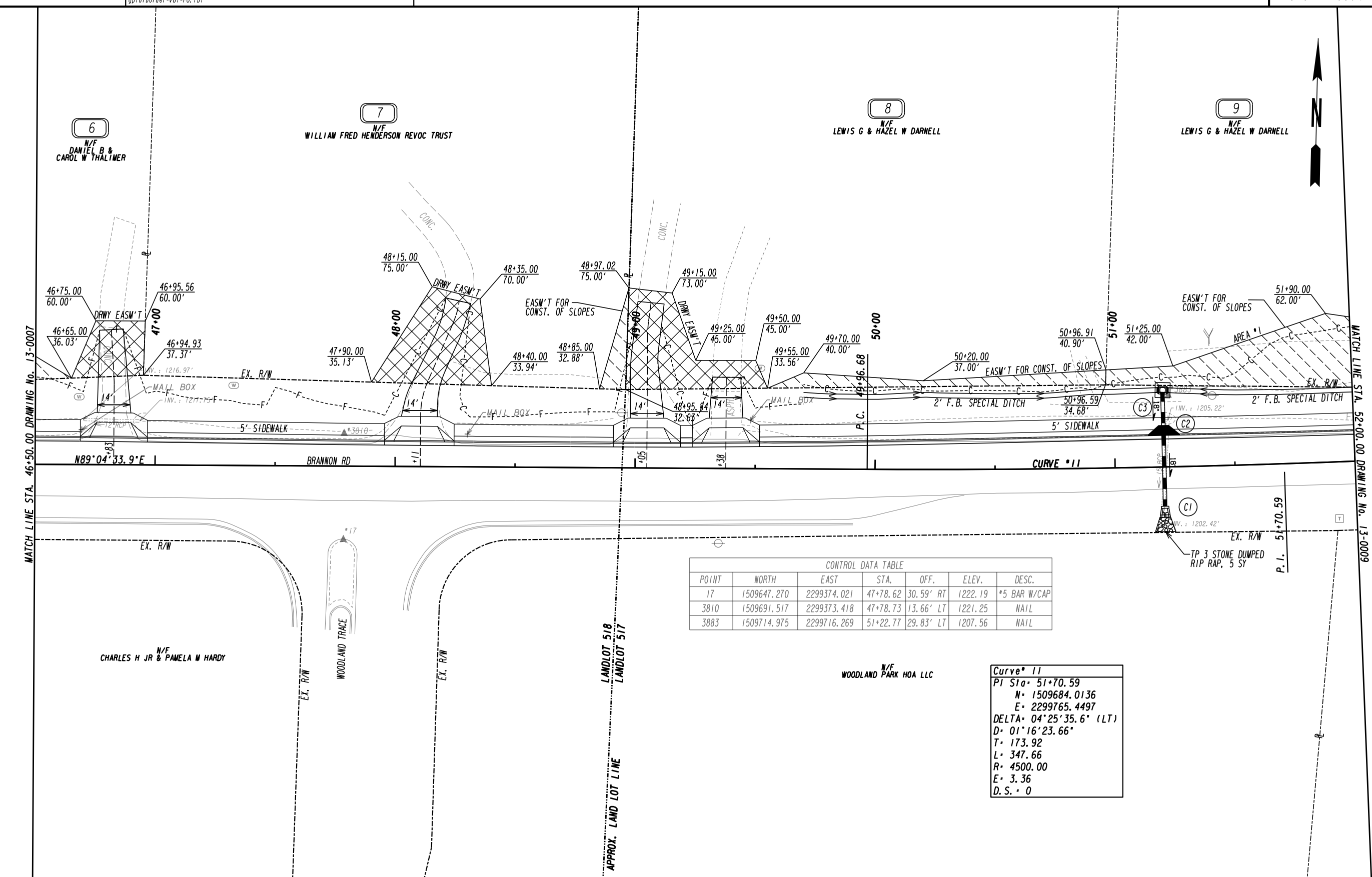
REVISION DATES

NO.	DATE	DESCRIPTION

CONSTRUCTION PLAN

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0007
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 46+50.00 DRAWING NO. 13-0007

MATCH LINE STA. 52+00.00 DRAWING NO. 13-0009

CONTROL DATA TABLE

POINT	NORTH	EAST	STA.	OFF.	ELEV.	DESC.
17	1509647.270	2299374.021	47+78.62	30.59' RT	1222.19	*5 BAR W/CAP
3810	1509691.517	2299373.418	47+78.73	13.66' LT	1221.25	NAIL
3883	1509714.975	2299716.269	51+22.77	29.83' LT	1207.56	NAIL

Curve # 11

PT Sta	51+70.59
N	1509684.0136
E	2299765.4497
DELTA	04°25'35.6" (LT)
D	01°16'23.66"
T	173.92
L	347.66
R	4500.00
E	3.36
D.S.	0

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
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

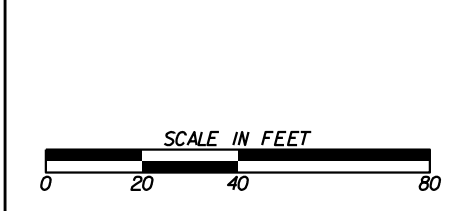
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 Glasgow, KY 40324
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 Louisville, KY 40223
 (502) 245-3853



REVISION DATES

NO.	DATE	DESCRIPTION

CONSTRUCTION PLAN

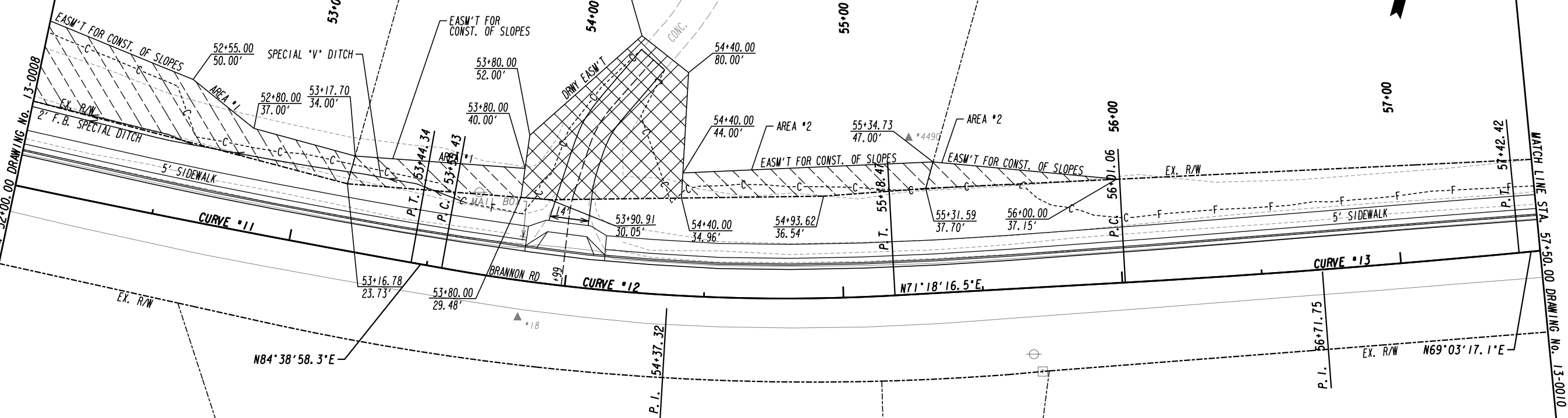
BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0008
CORRECTED:	DATE:	
VERIFIED:	DATE:	

9
N/F
LEWIS G & HAZEL W DARNELL

10
N/F
BRADLEY NICHOLAS DARNELL

9
N/F
LEWIS G & HAZEL W DARNELL



N/F
JEFFREY A & JESSICA LEIGH

N/F
VERA FRAZIER

N/F
SEAN & SYLVIE MCPARTLIN

N/F
LEWIS G & HAZEL W DARNELL

Curve # 11

PI Sta	51+70.59
N	1509684.0136
E	2299765.4497
DELTA	04°25'35.6" (LT)
D	01°16'23.66"
T	173.92
L	347.66
R	4500.00
E	3.36
D.S.	0

Curve # 12

PI Sta	54+37.32
N	1509708.9017
E	2300031.1896
DELTA	13°20'41.8" (LT)
D	08°11'06.40"
T	81.89
L	163.04
R	700.00
E	4.77
D.S.	0

Curve # 13

PI Sta	56+71.75
N	1509784.2830
E	2300253.9526
DELTA	02°14'59.4" (LT)
D	01°35'29.58"
T	70.69
L	141.36
R	3600.00
E	0.69
D.S.	0

CONTROL DATA TABLE

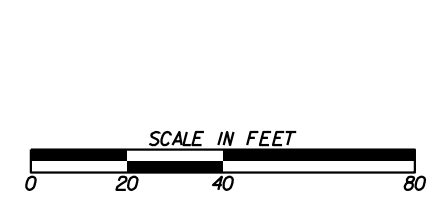
POINT	NORTH	EAST	STA.	OFF.	ELEV.	DESC.
18	1509691.599	2299980.615	53+84.79	13.30' RT	1213.74	*5 BAR W/CAP
4490	1509790.976	2300098.388	55+26.49	56.05' LT	1221.89	NAIL

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
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

PLANS PREPARED AND SUBMITTED BY:

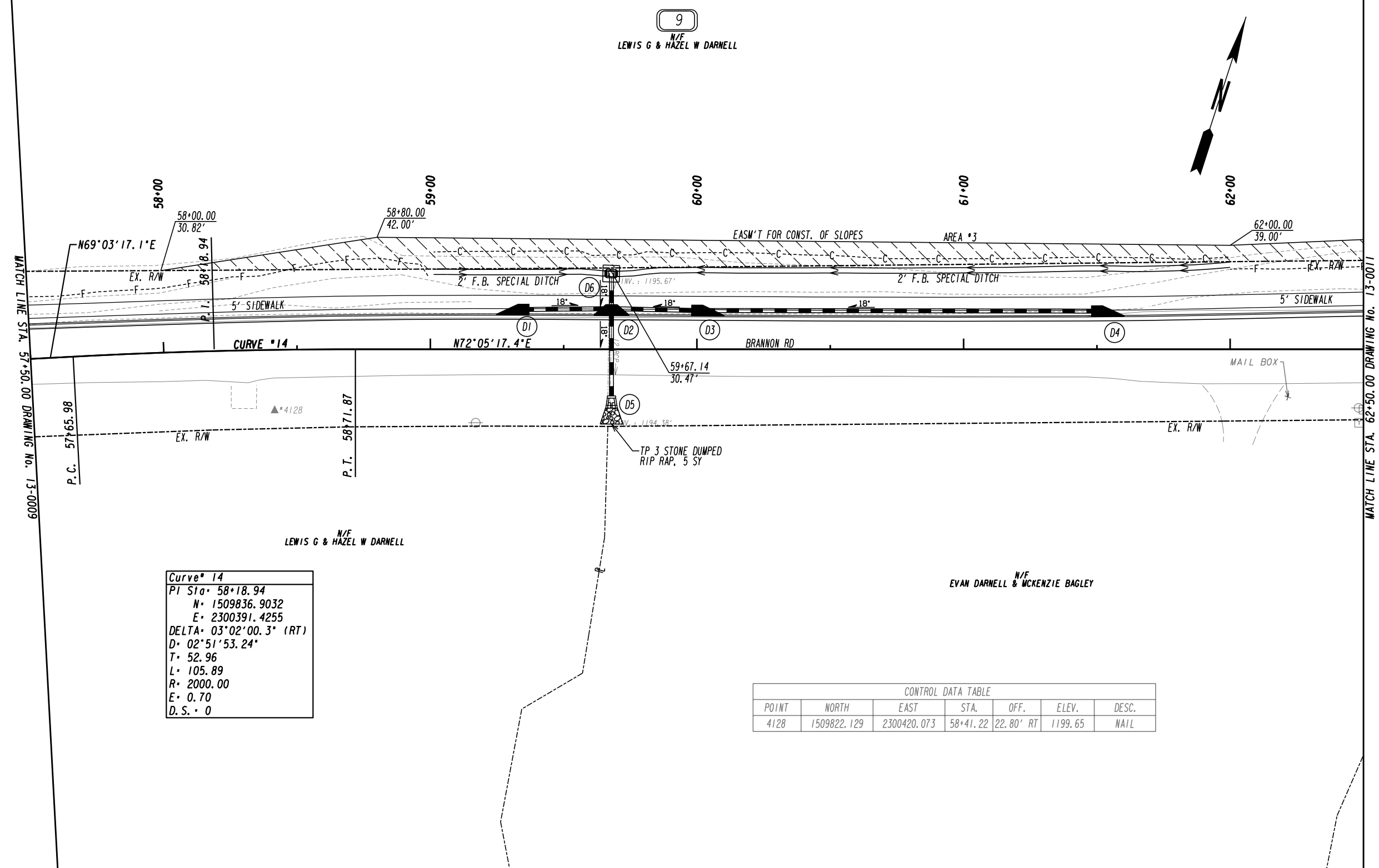
 AMERICAN ENGINEERS, INC.
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REVISION DATES

CONSTRUCTION PLAN
 BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0009
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Curve # 14

PI Sta	58+18.94
N	1509836.9032
E	2300391.4255
DELTA	03°02'00.3" (RT)
D	02°51'53.24"
T	52.96
L	105.89
R	2000.00
E	0.70
D.S.	0

CONTROL DATA TABLE

POINT	NORTH	EAST	STA.	OFF.	ELEV.	DESC.
4128	1509822.129	2300420.073	58+41.22	22.80' RT	1199.65	NAIL

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

-----e-----
 ---C---F---
 [Hatched Box]
 [Hatched Box]
 [Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

PLANS PREPARED AND SUBMITTED BY:

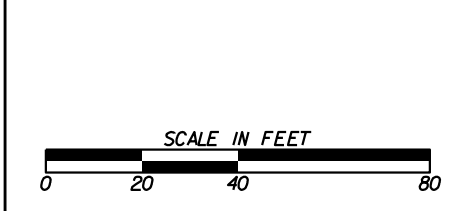
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 65 Aberdeen Drive
 Glasgow, KY 42044
 (270) 651-7220

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 Acworth, GA 30001
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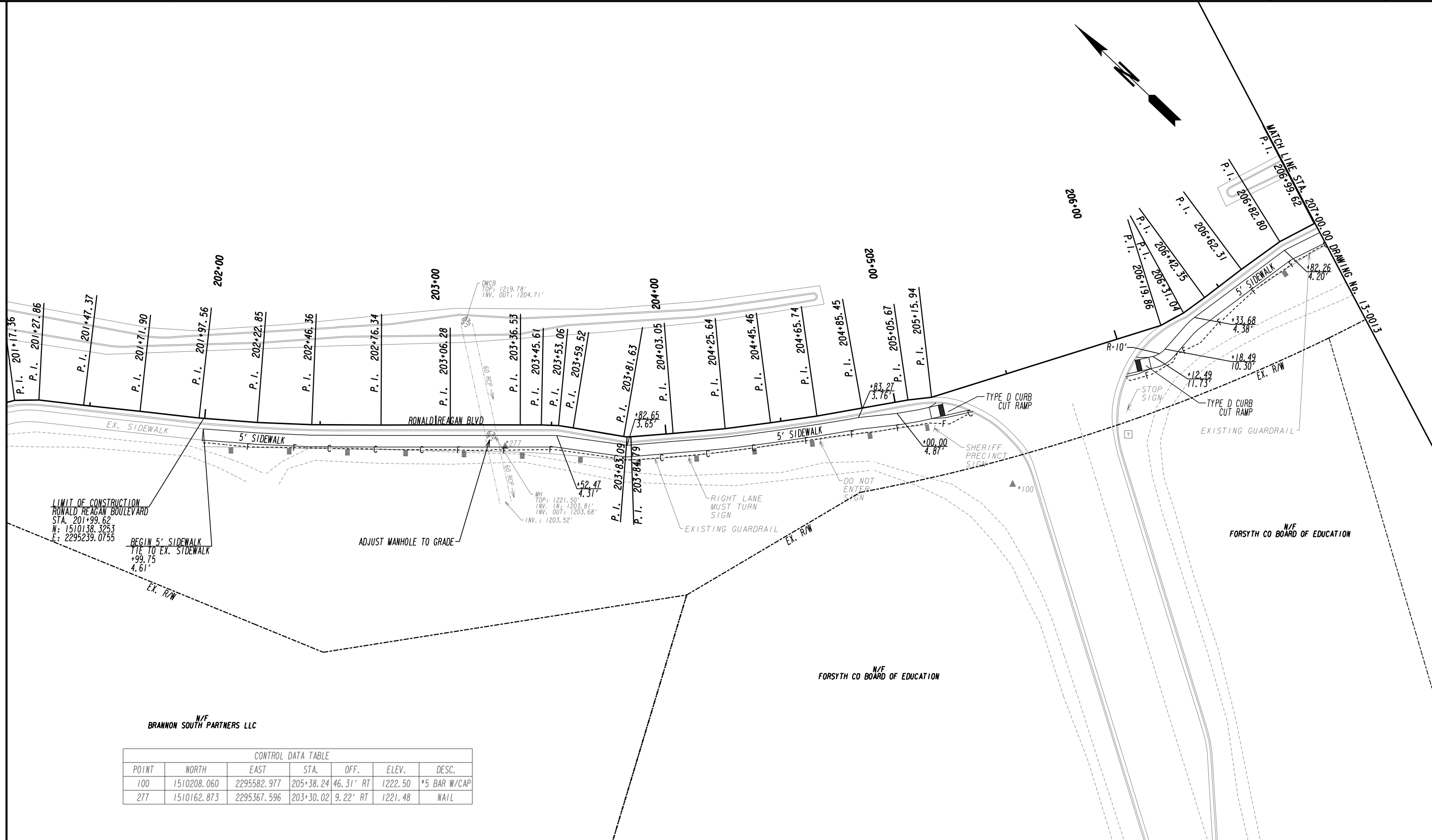
REVISION DATES

NO.	DATE	DESCRIPTION

CONSTRUCTION PLAN

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0010
CORRECTED:	DATE:	
VERIFIED:	DATE:	

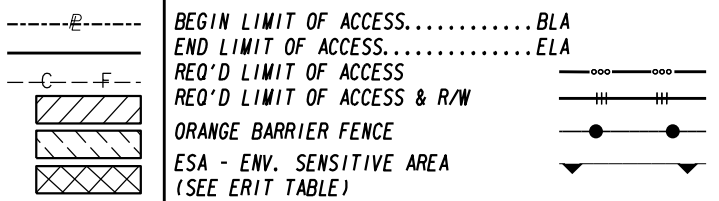


LIMIT OF CONSTRUCTION
RONALD REAGAN BOULEVARD
STA. 201+99.62
N: 1510138.3253
E: 2295239.0755
BEGIN 5' SIDEWALK
TIE TO EX. SIDEWALK
+99.75
4.61'

N/F
BRANNON SOUTH PARTNERS LLC

CONTROL DATA TABLE						
POINT	NORTH	EAST	STA.	OFF.	ELEV.	DESC.
100	1510208.060	2295582.977	205+38.24	46.31' RT	1222.50	*5 BAR W/CAP
277	1510162.873	2295367.596	203+30.02	9.22' RT	1221.48	NAIL

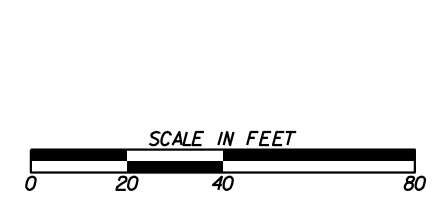
PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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REVISION DATES	

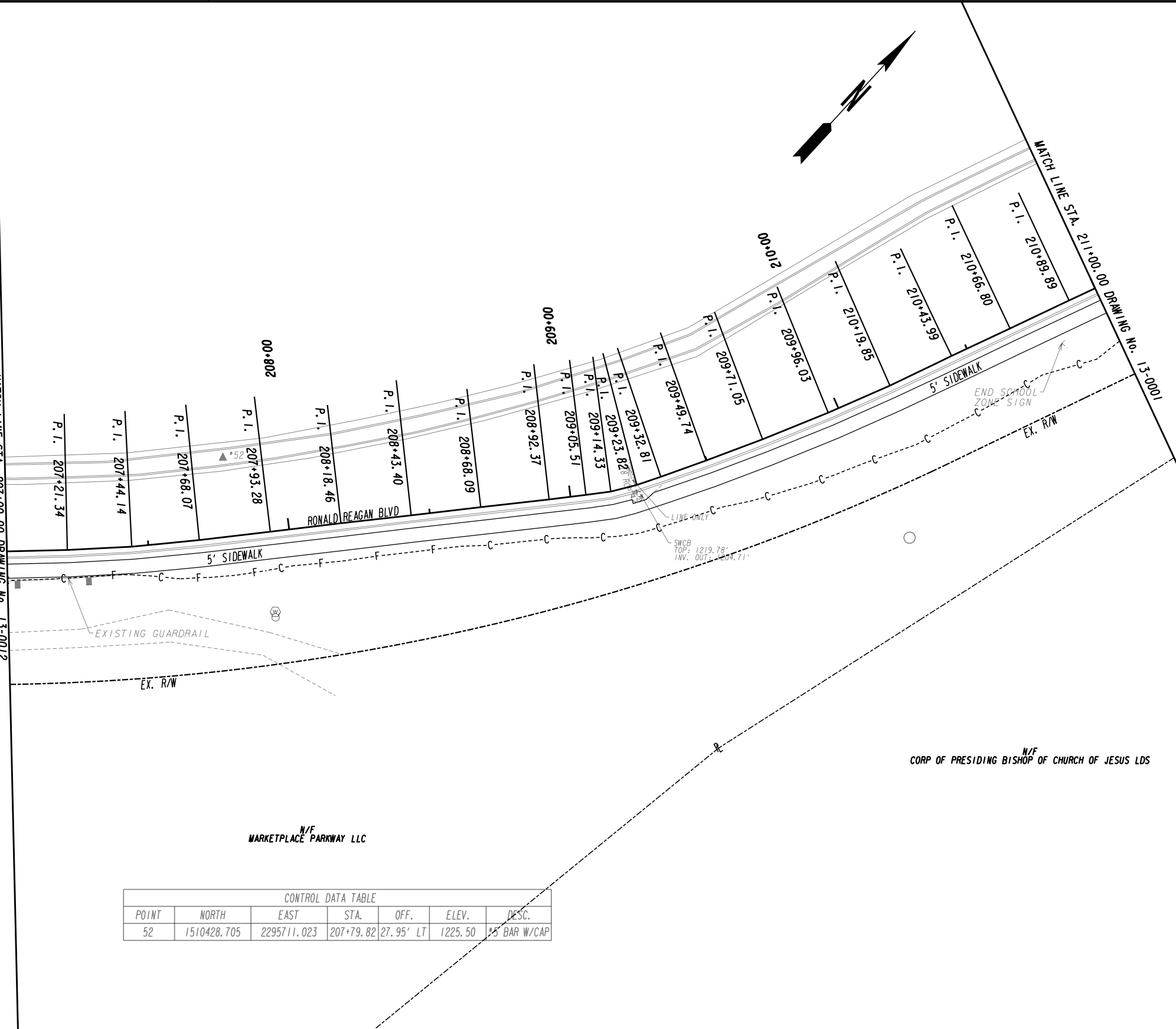
CONSTRUCTION PLAN

RONALD REAGAN BOULEVARD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0012
CORRECTED:	DATE:	
VERIFIED:	DATE:	

MATCH LINE STA. 207+00.00 DRAWING No. 13-0012

MATCH LINE STA. 211+00.00 DRAWING No. 13-0001

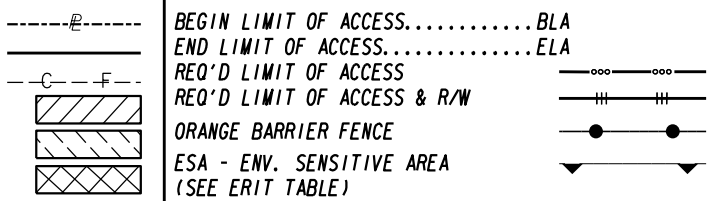


N/F MARKETPLACE PARKWAY LLC

N/F CORP OF PRESIDING BISHOP OF CHURCH OF JESUS LDS

CONTROL DATA TABLE						
POINT	NORTH	EAST	STA.	OFF.	ELEV.	DESC.
52	1510428.705	2295711.023	207+79.82	27.95' LT	1225.50	*5 BAR W/CAP

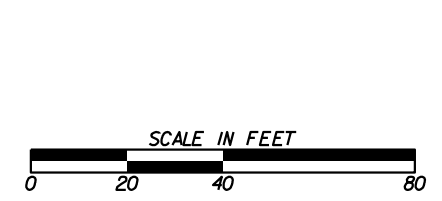
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



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Professional Engineering

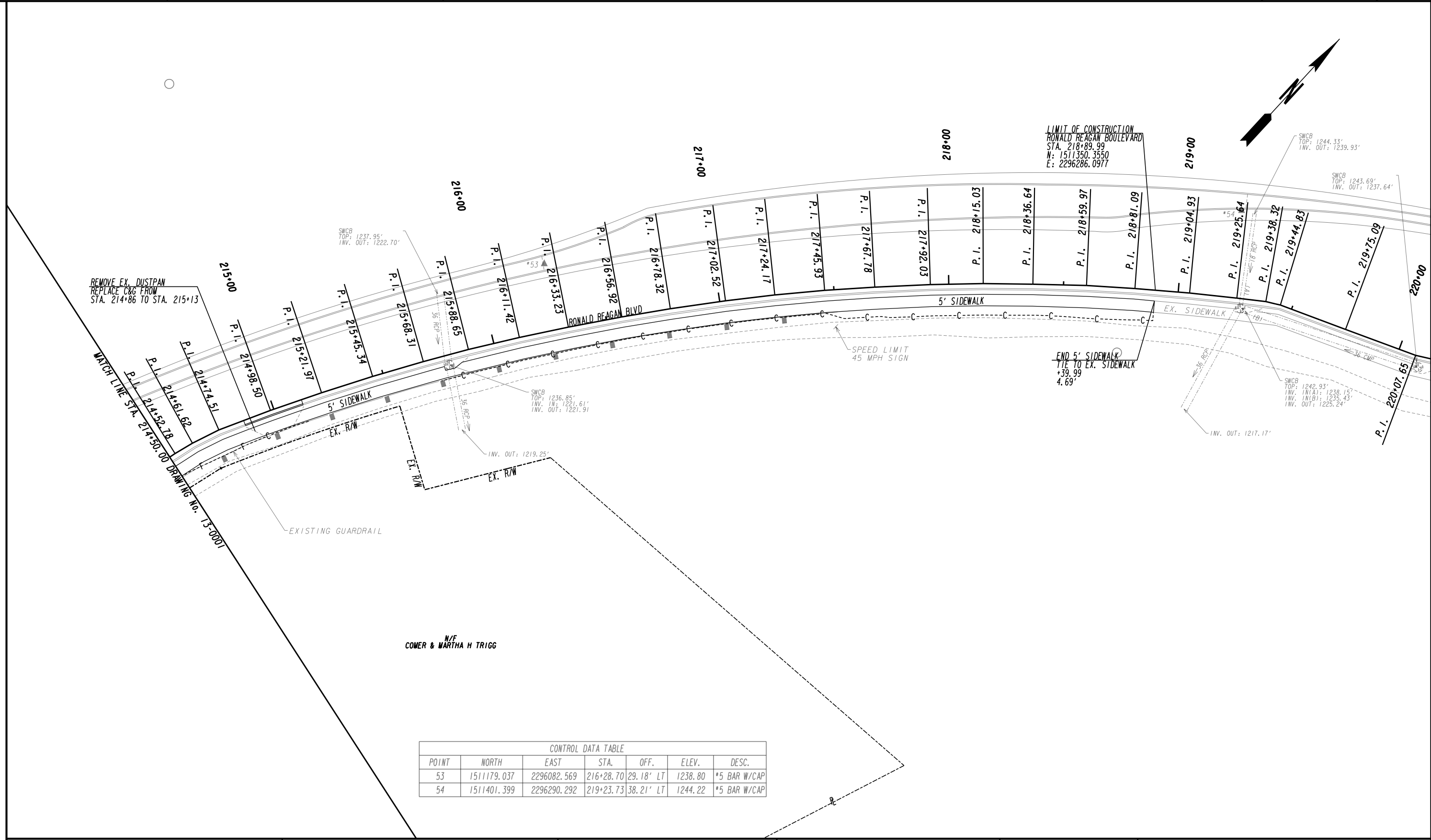


REVISION DATES	

CONSTRUCTION PLAN

RONALD REAGAN BOULEVARD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0013
CORRECTED:	DATE:	
VERIFIED:	DATE:	



REMOVE EX. DUSTPAN
REPLACE C&G FROM
STA. 214+86 TO STA. 215+13

MATCH LINE STA. 214+50.00 DRAWING NO. 13-001

LIMIT OF CONSTRUCTION
RONALD REAGAN BOULEVARD
STA. 218+89.99
N: 1511350.3550
E: 2296286.0977

SPEED LIMIT
45 MPH SIGN

END 5' SIDEWALK
TIE TO EX. SIDEWALK
+39.99
4.69'

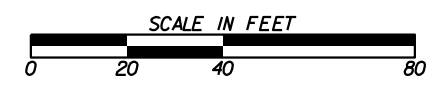
N/F
COMER & MARTHA H TRIGG

CONTROL DATA TABLE						
POINT	NORTH	EAST	STA.	OFF.	ELEV.	DESC.
53	1511179.037	2296082.569	216+28.70	29.18' LT	1238.80	*5 BAR W/CAP
54	1511401.399	2296290.292	219+23.73	38.21' LT	1244.22	*5 BAR W/CAP

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

-----e-----
BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
-C-F-
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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

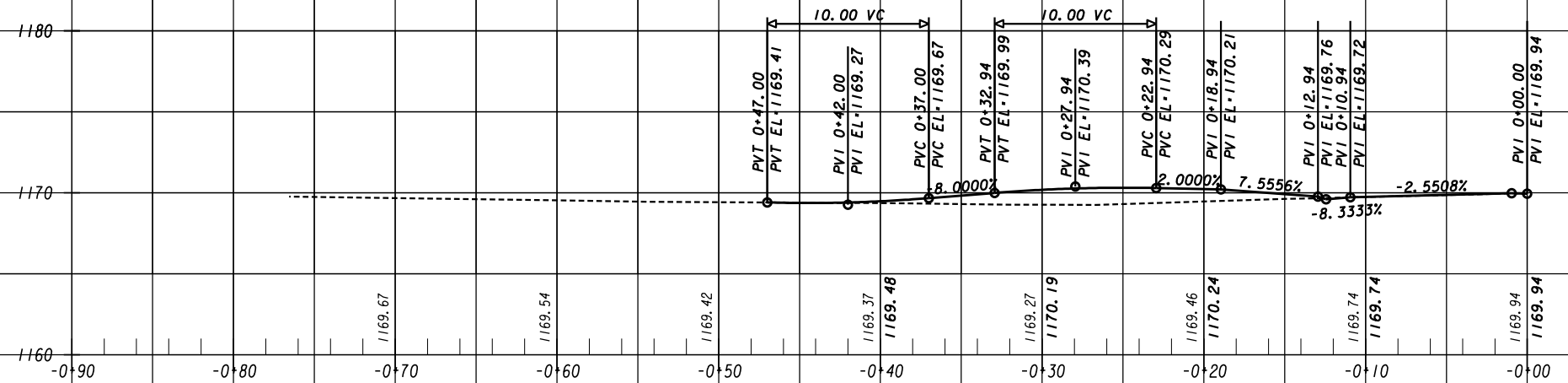


REVISION DATES	

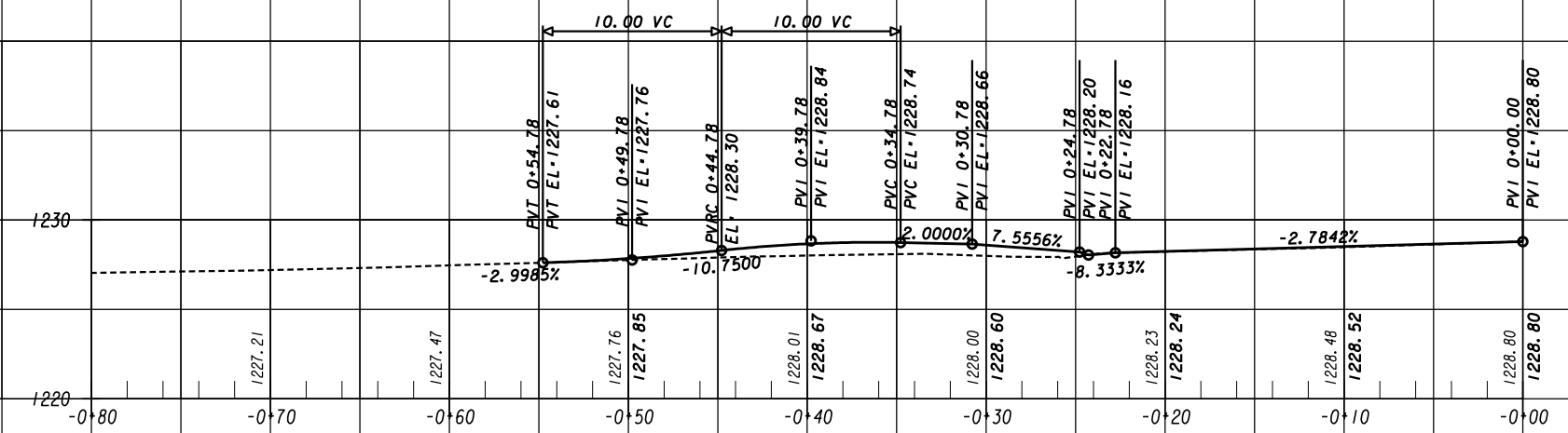
CONSTRUCTION PLAN

RONALD REAGAN BOULEVARD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0014
CORRECTED:	DATE:	
VERIFIED:	DATE:	



DW 35+09 LT
RESIDENTIAL
BRANNON ROAD



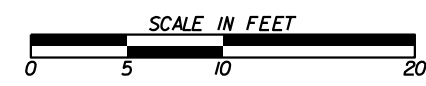
DW 11+03 LT
RESIDENTIAL
BRANNON ROAD

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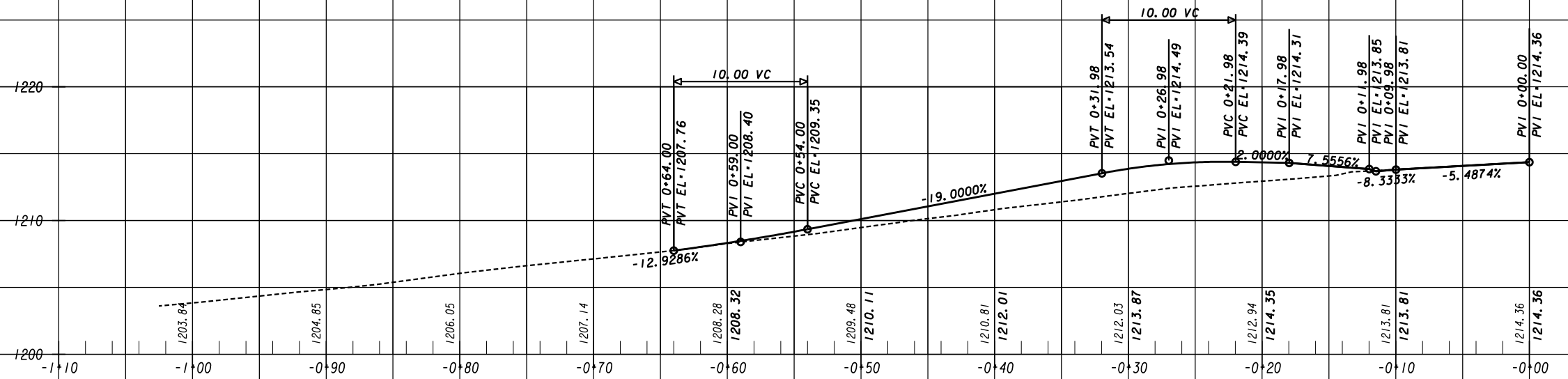
REVISION DATES

NO.	DATE	DESCRIPTION

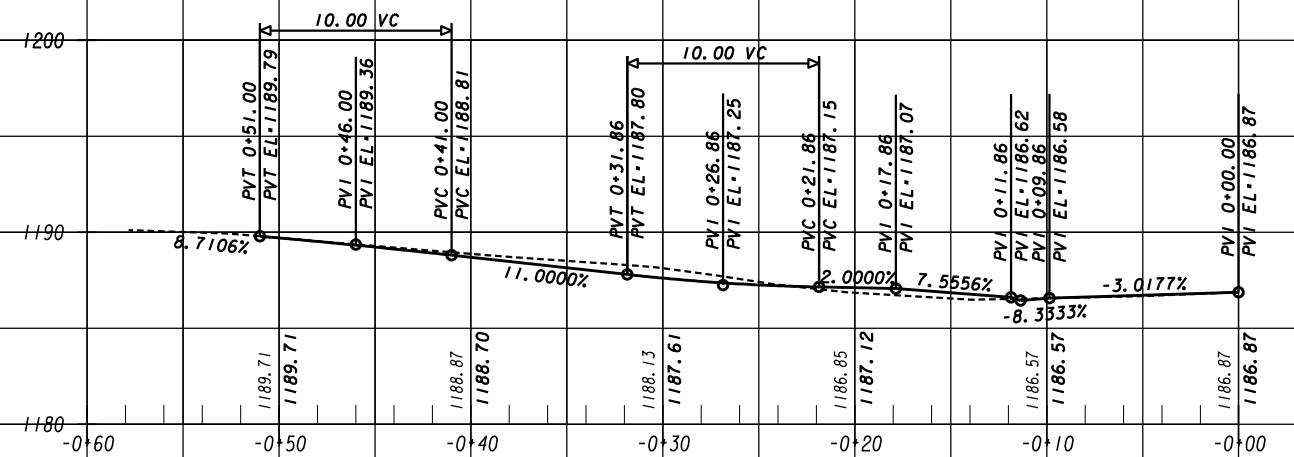
DRIVEWAY PROFILES

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	17-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



DW 44+33 LT
RESIDENTIAL
BRANNON ROAD



DW 38+79 LT
RESIDENTIAL
BRANNON ROAD

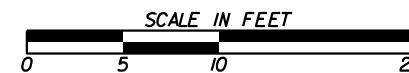
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(770) 421-8422

2500 Nelson Miller Parkway
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(502) 245-3883

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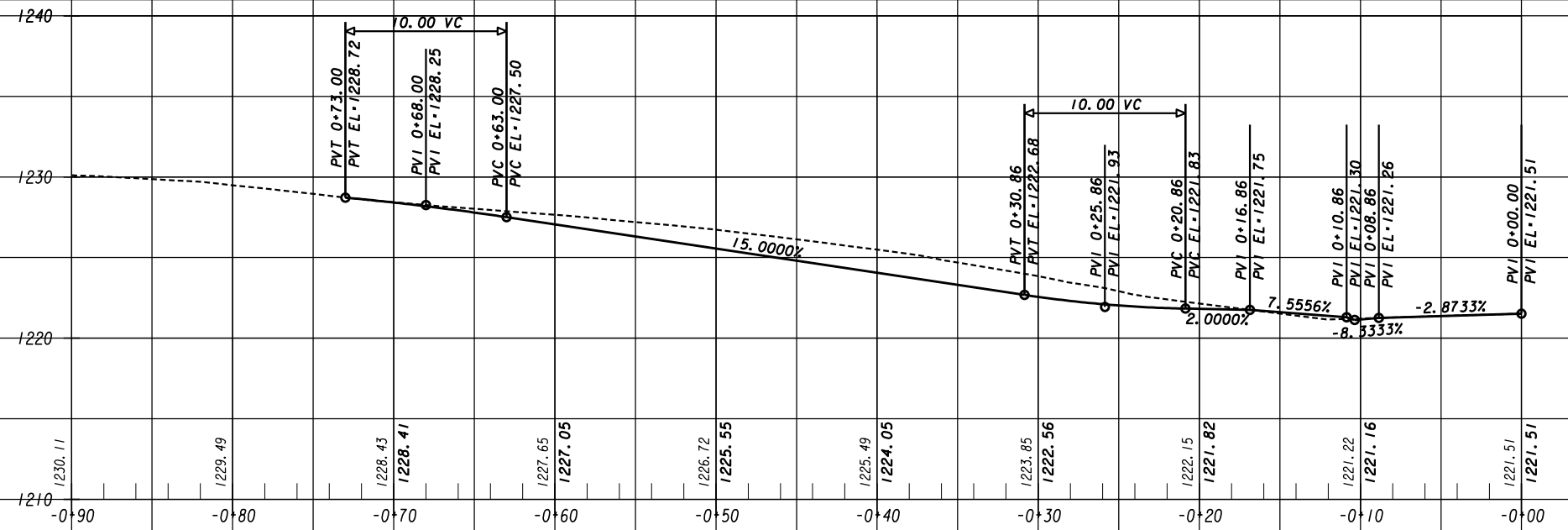
REVISION DATES

NO.	DATE	DESCRIPTION

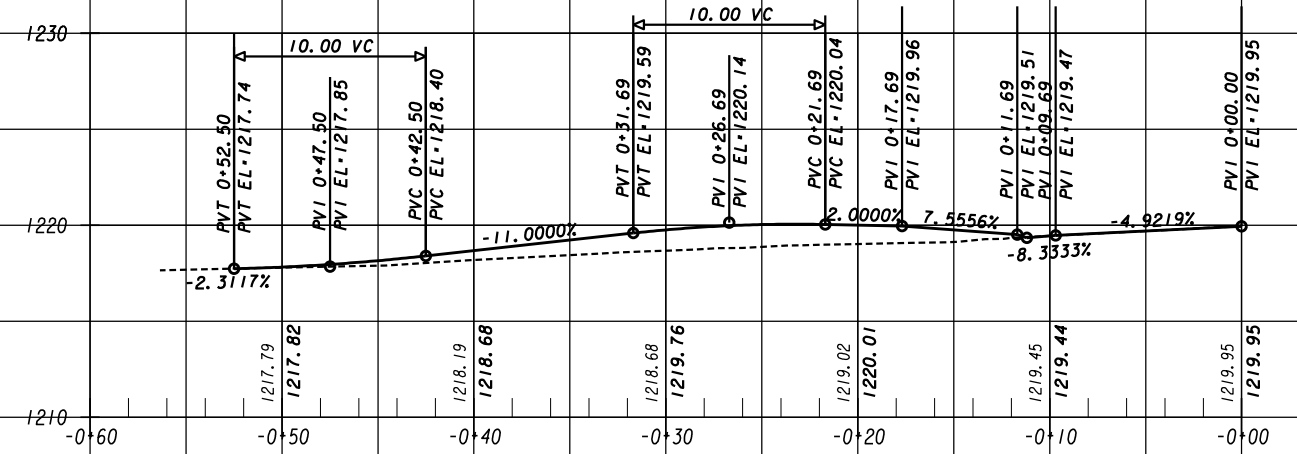
DRIVEWAY PROFILES

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	17-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



DW 48+11 LT
RESIDENTIAL
BRANNON ROAD



DW 46+83 LT
RESIDENTIAL
BRANNON ROAD

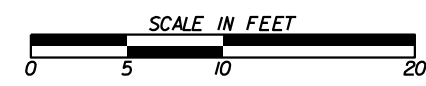
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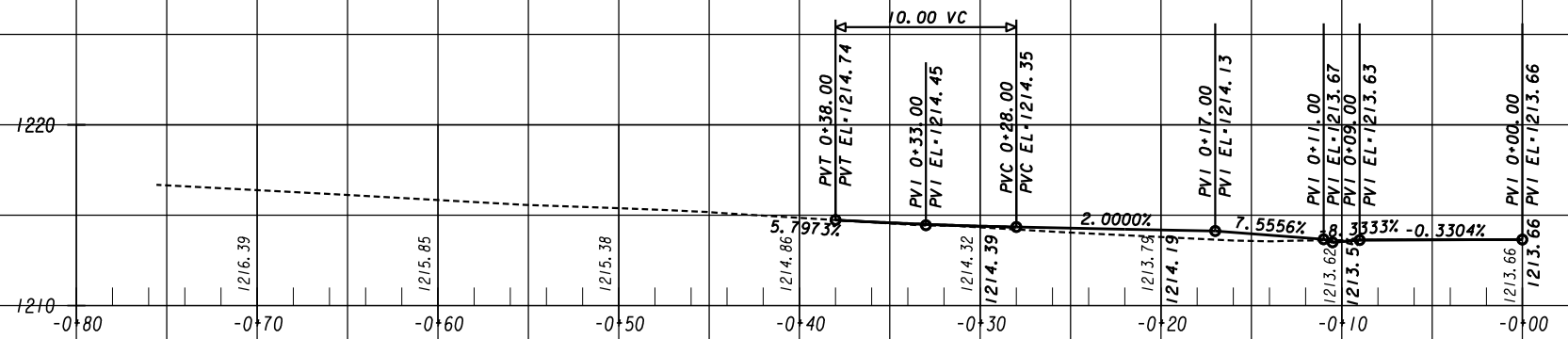
REVISION DATES

NO.	DATE	DESCRIPTION

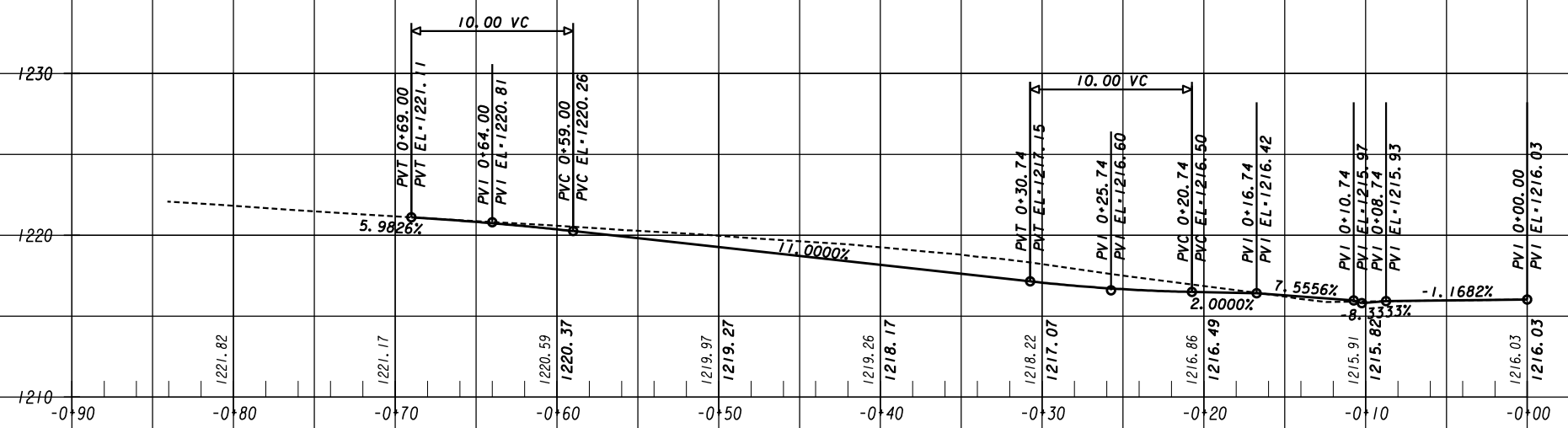
DRIVEWAY PROFILES

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	17-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	



DW 49+38 LT
RESIDENTIAL
BRANNON ROAD



DW 49+05 LT
RESIDENTIAL
BRANNON ROAD

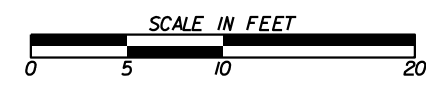
PLANS PREPARED AND SUBMITTED BY:

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Acworth, GA 30009
(770) 421-8422

2500 Nelson Miller Parkway
Louisville, KY 40223
(502) 245-3883

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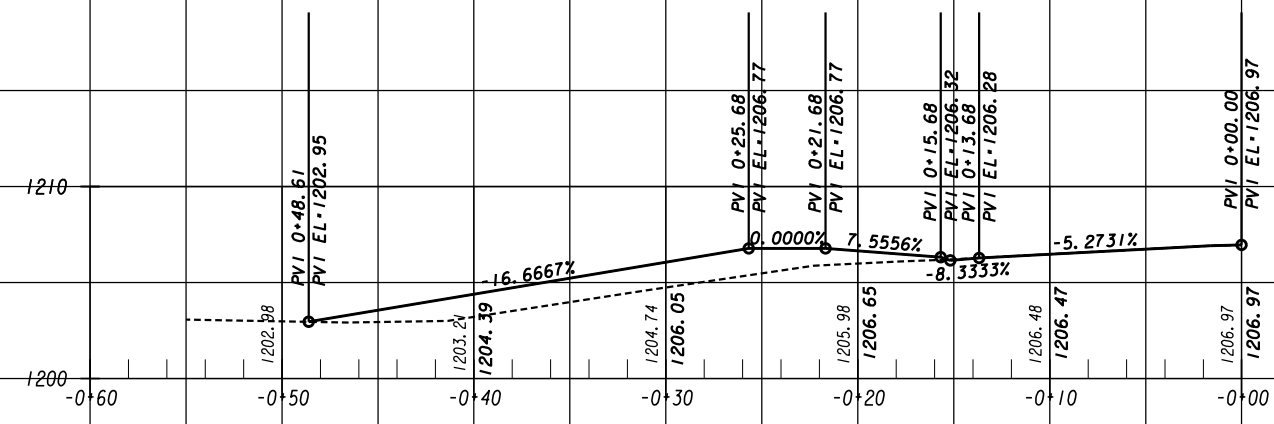
REVISION DATES

NO.	DATE	DESCRIPTION

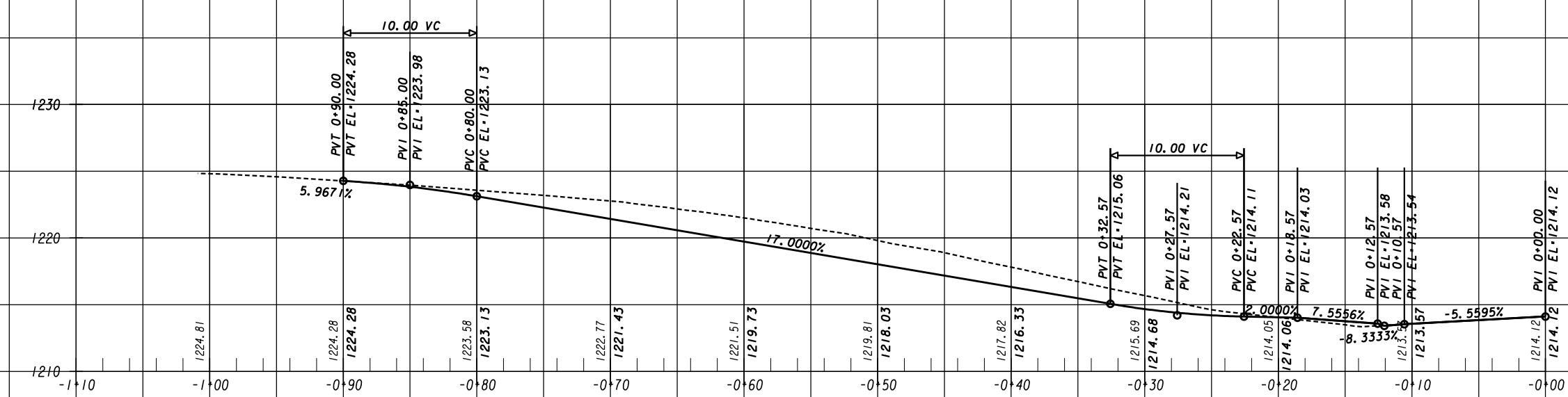
DRIVEWAY PROFILES

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	17-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	



DW 63+09 LT
UTILITY
BRANNON ROAD



DW 53+99 LT
RESIDENTIAL
BRANNON ROAD

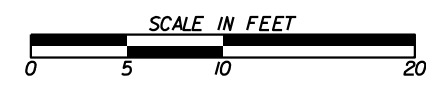
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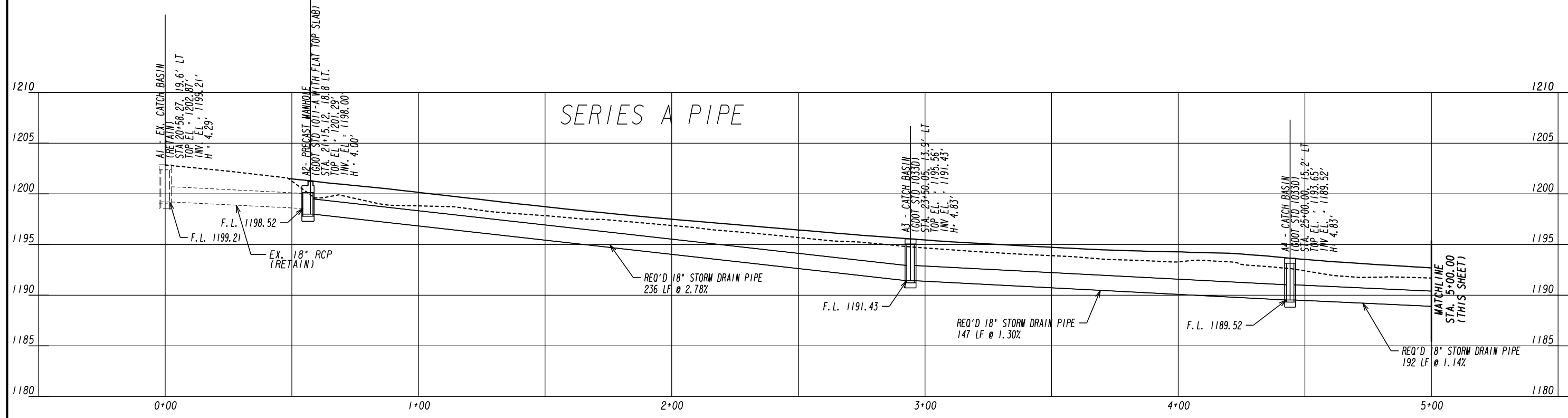
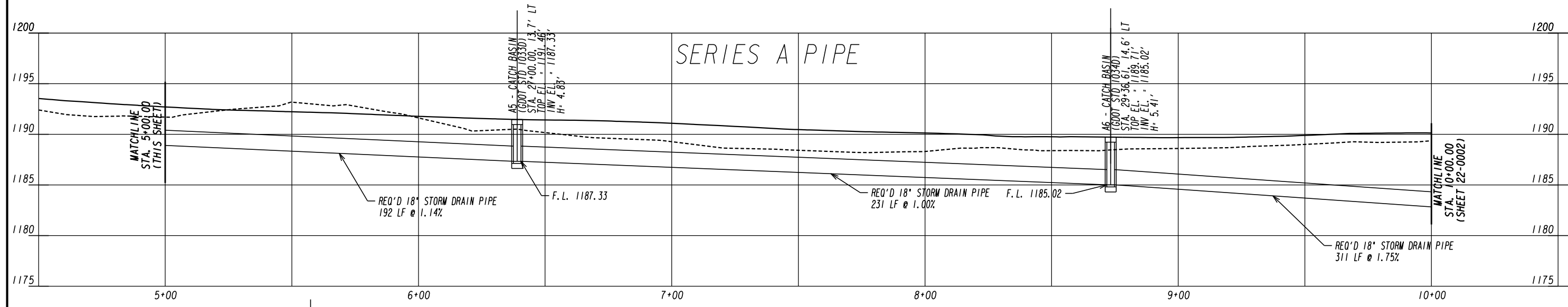
REVISION DATES

NO.	DATE	DESCRIPTION

DRIVEWAY PROFILES

BRANNON ROAD

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BACKCHECKED:	DATE:	17-0005
CORRECTED:	DATE:	
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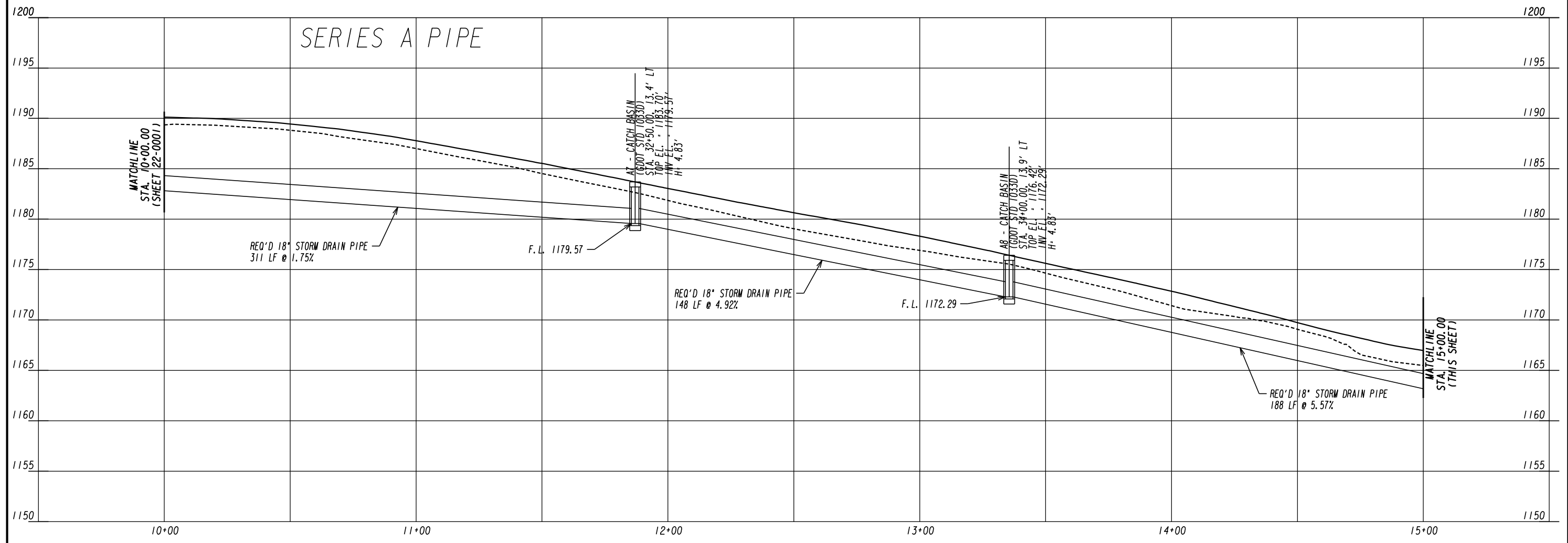
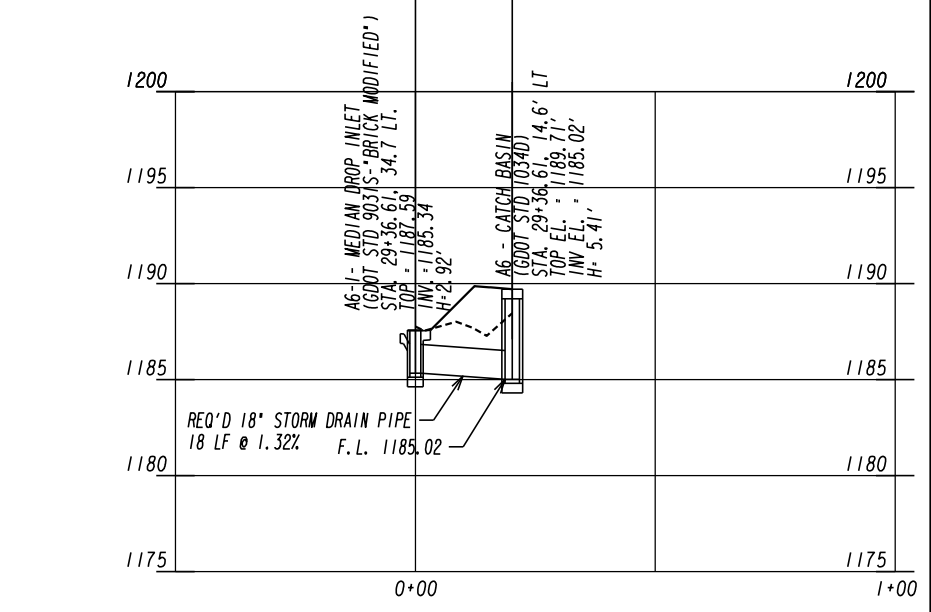
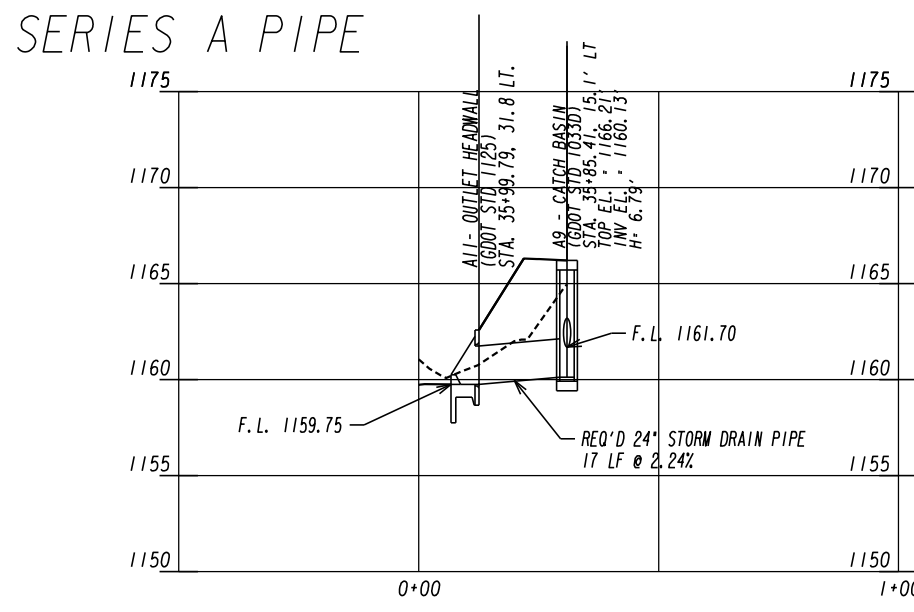
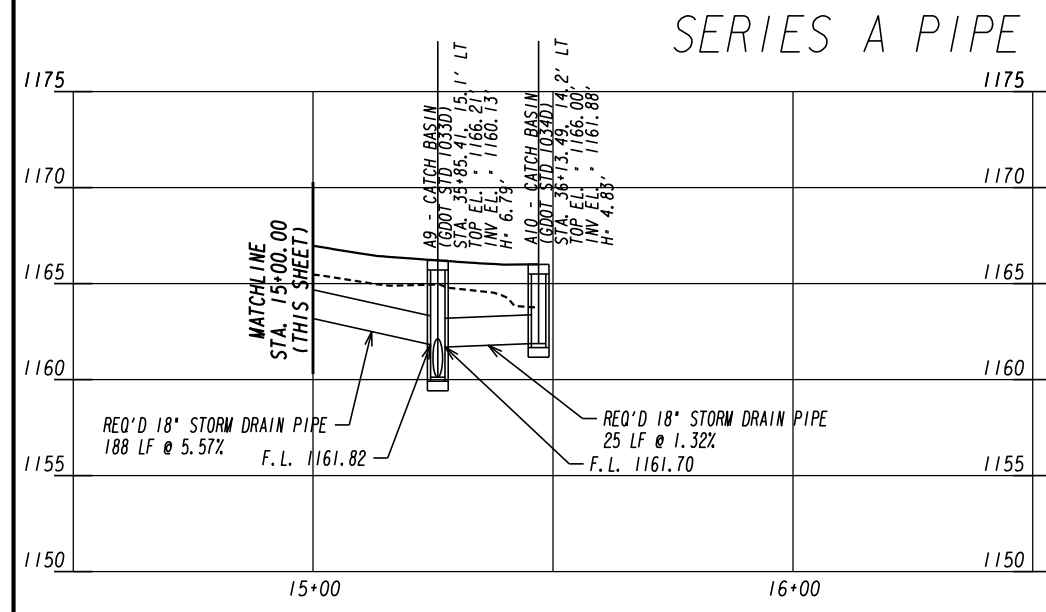
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1" = 20' HORIZONTAL
1" = 5' VERTICAL

REVISION DATES		DRAINAGE PROFILES	
		BRANNON ROAD	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	22-0001	
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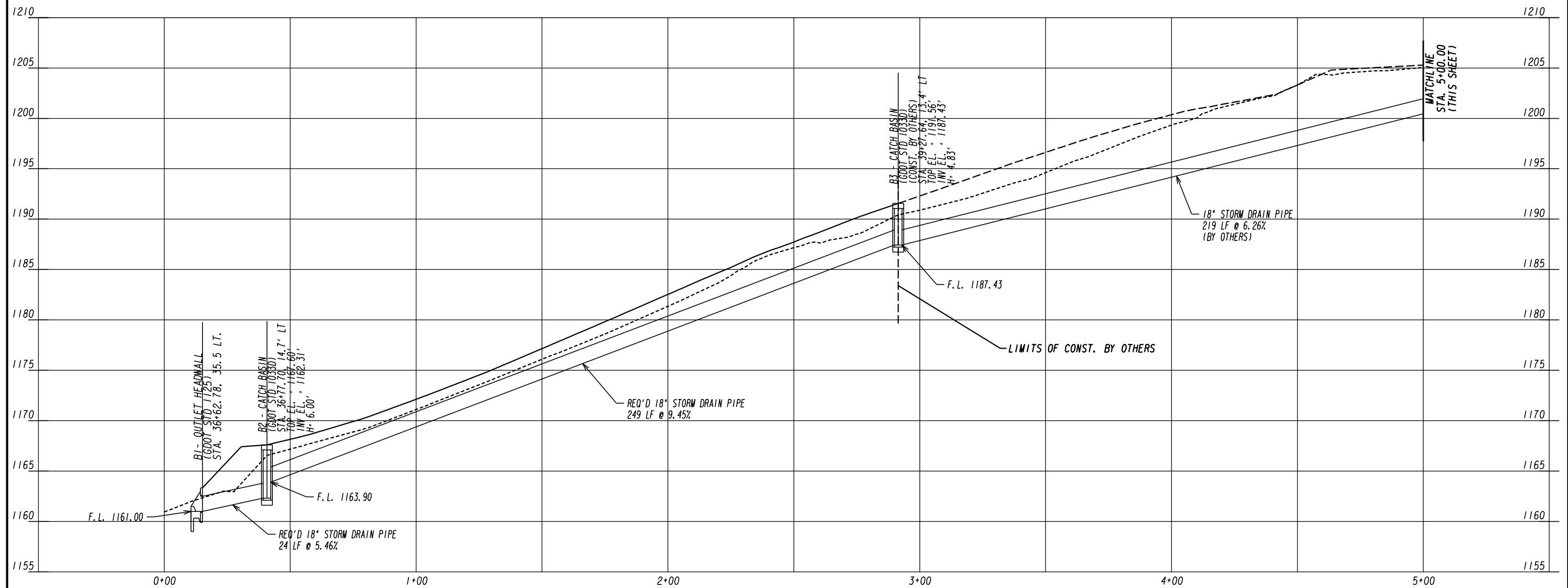
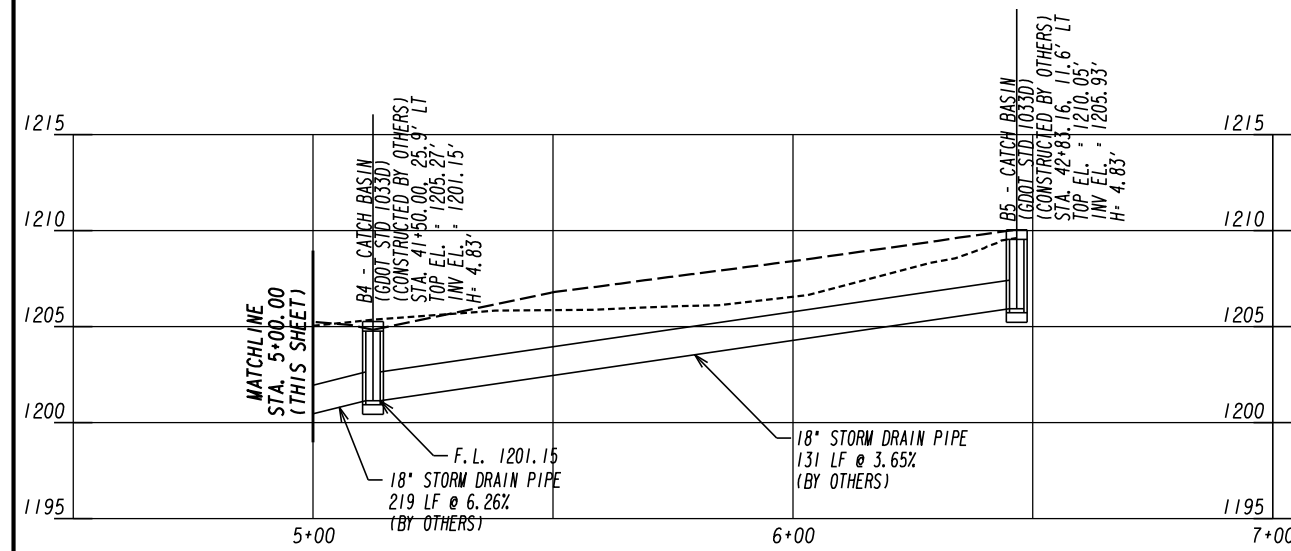
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1" = 20' HORIZONTAL
1" = 5' VERTICAL

REVISION DATES	

DRAINAGE PROFILES			
BRANNON ROAD			
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VERIFIED:		DATE:	
DRAWING No.			22-0002



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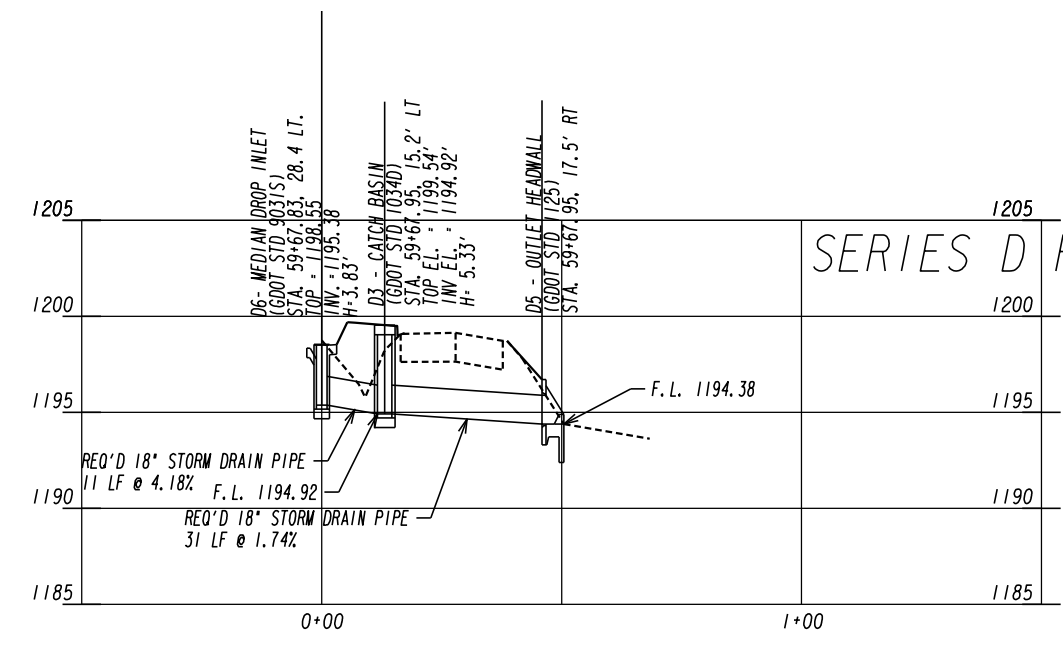
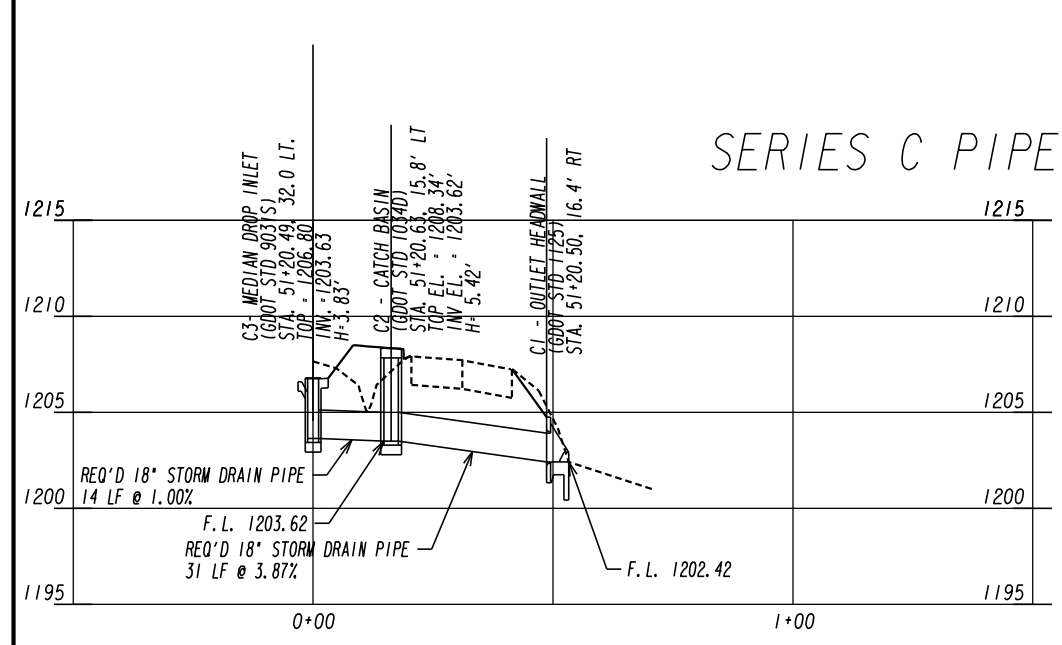
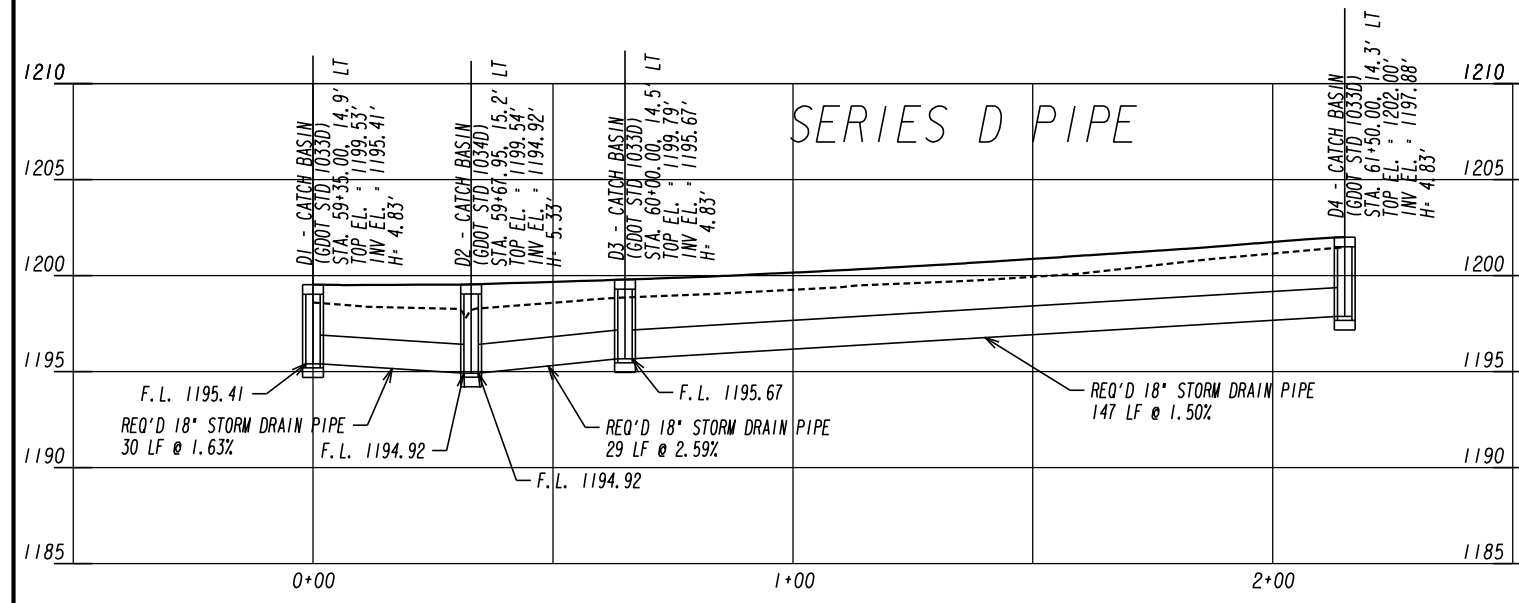
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1" = 20' HORIZONTAL
1" = 5' VERTICAL

REVISION DATES		DRAINAGE PROFILES	
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CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	22-0003	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



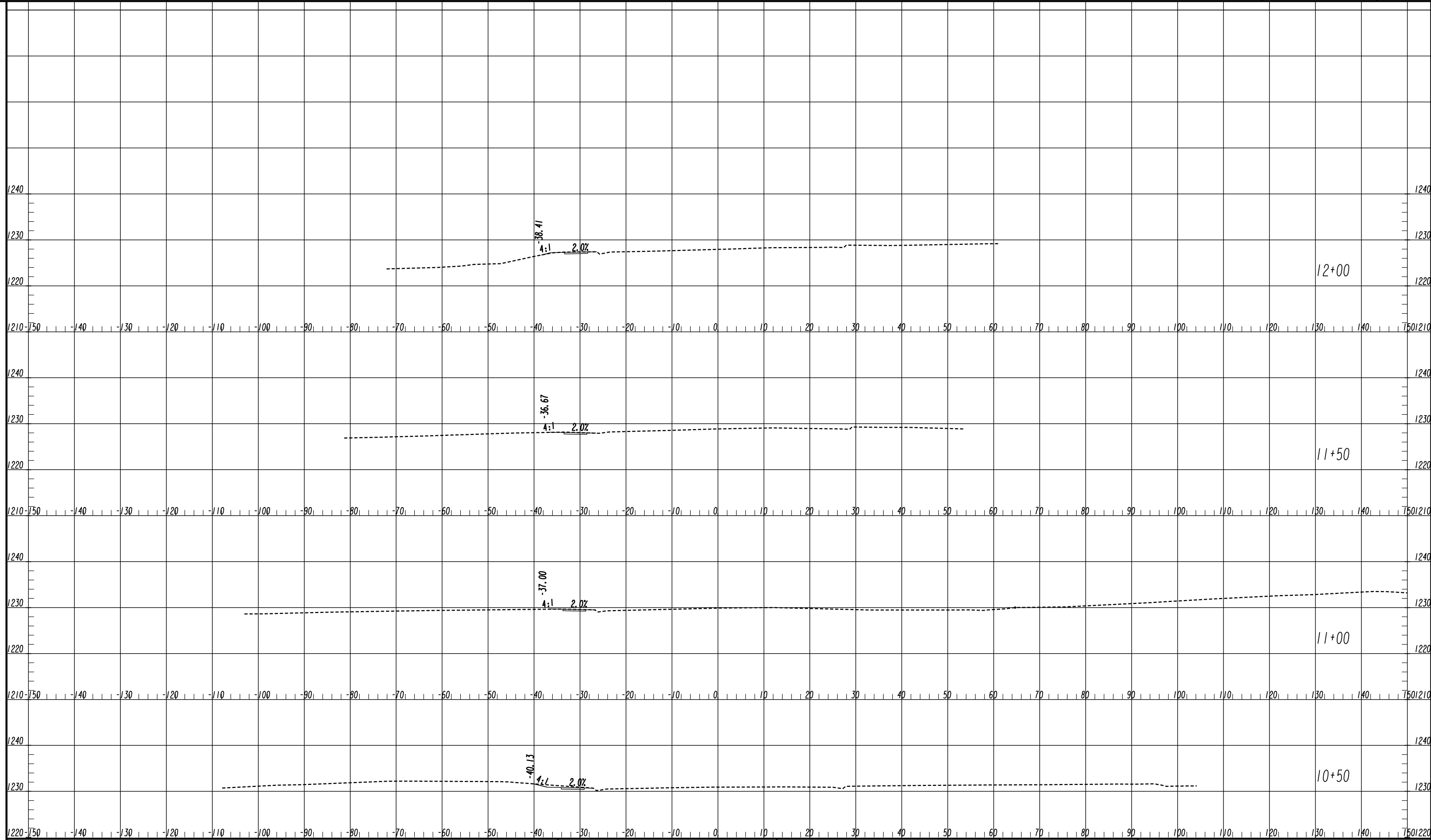
1" = 20' HORIZONTAL
1" = 5' VERTICAL

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REVISION DATES	

DRAINAGE PROFILES
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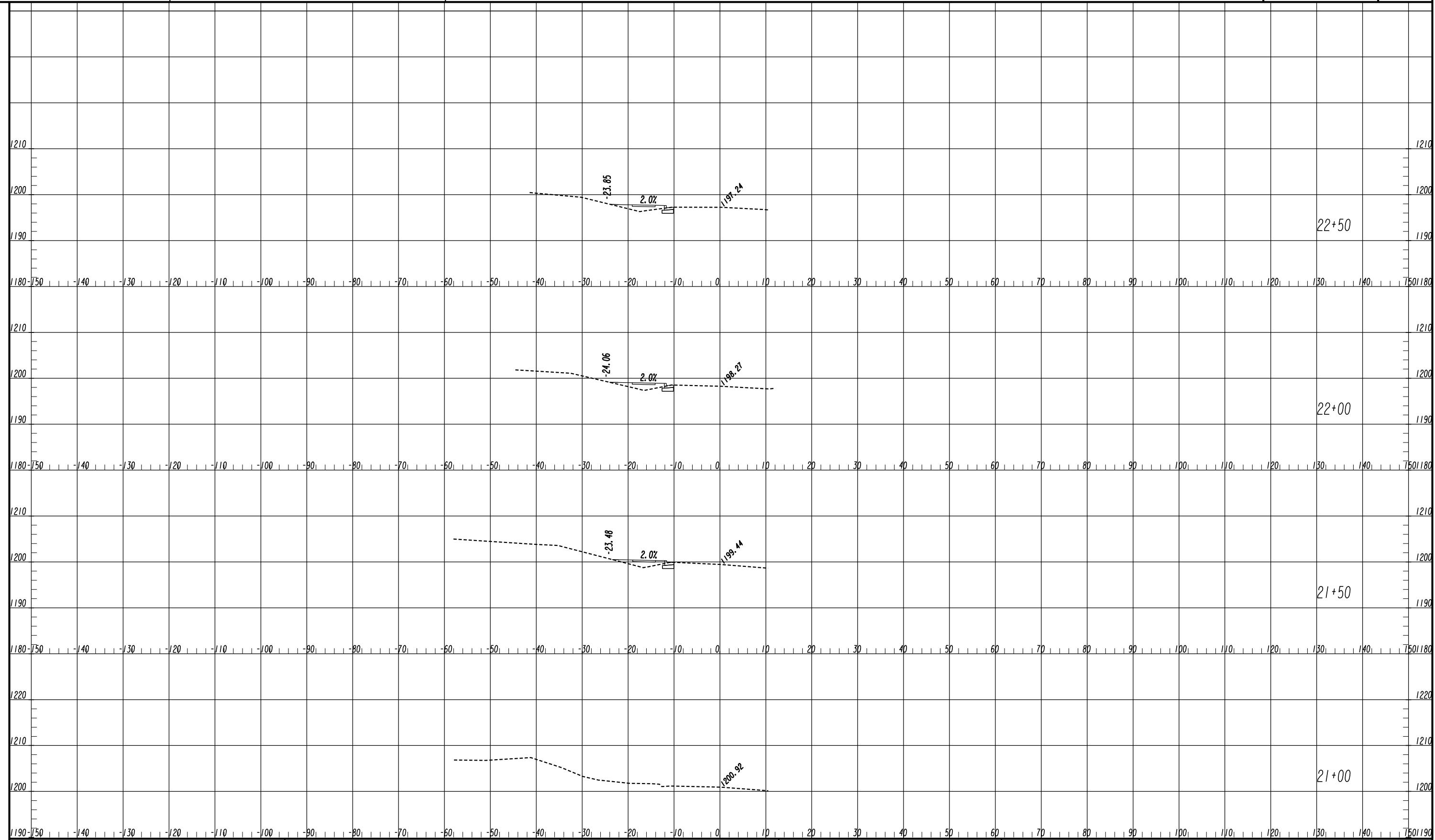
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REVISION DATES	

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BRANNON ROAD			
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DRAWING No.			23-0001



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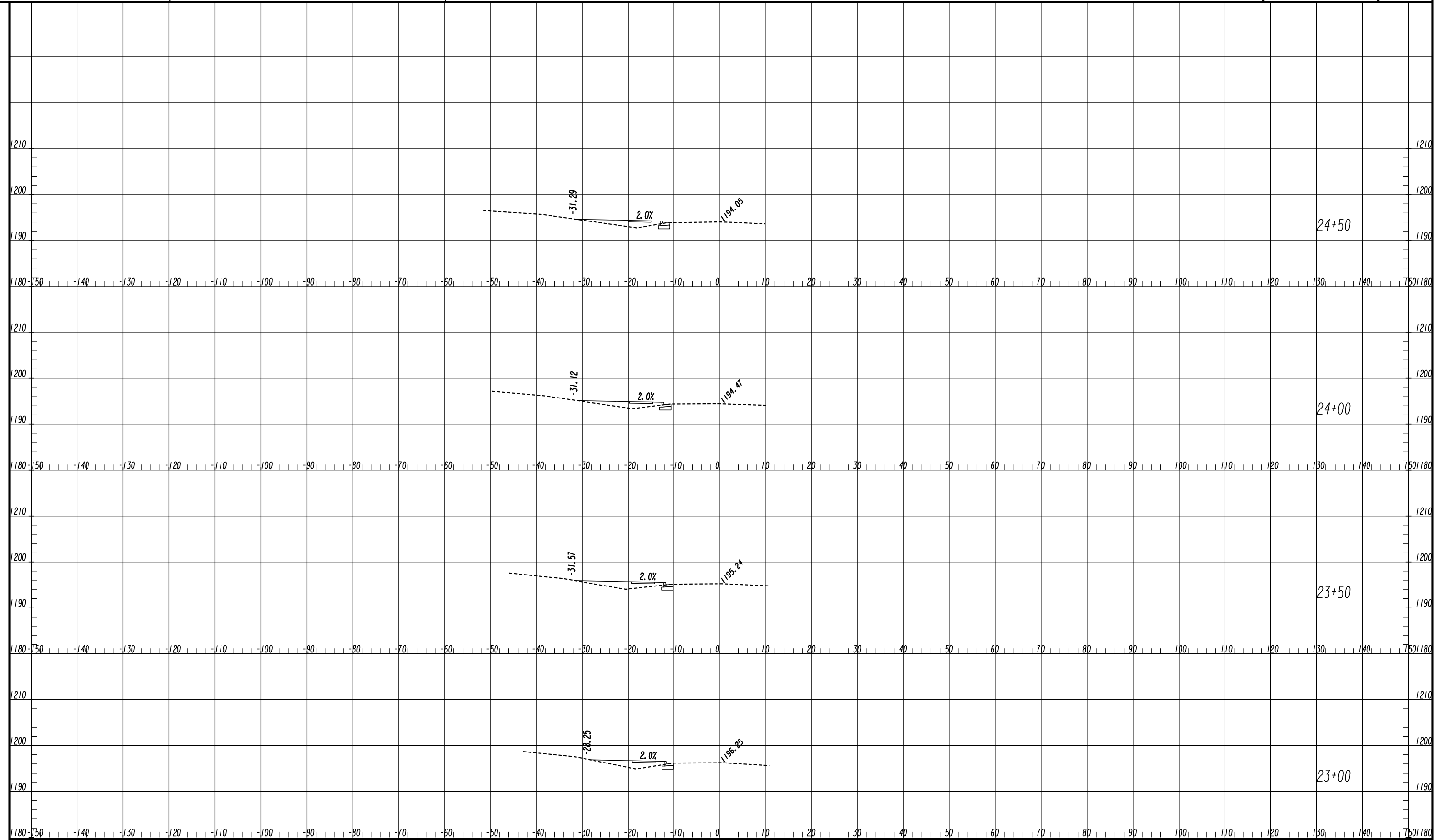
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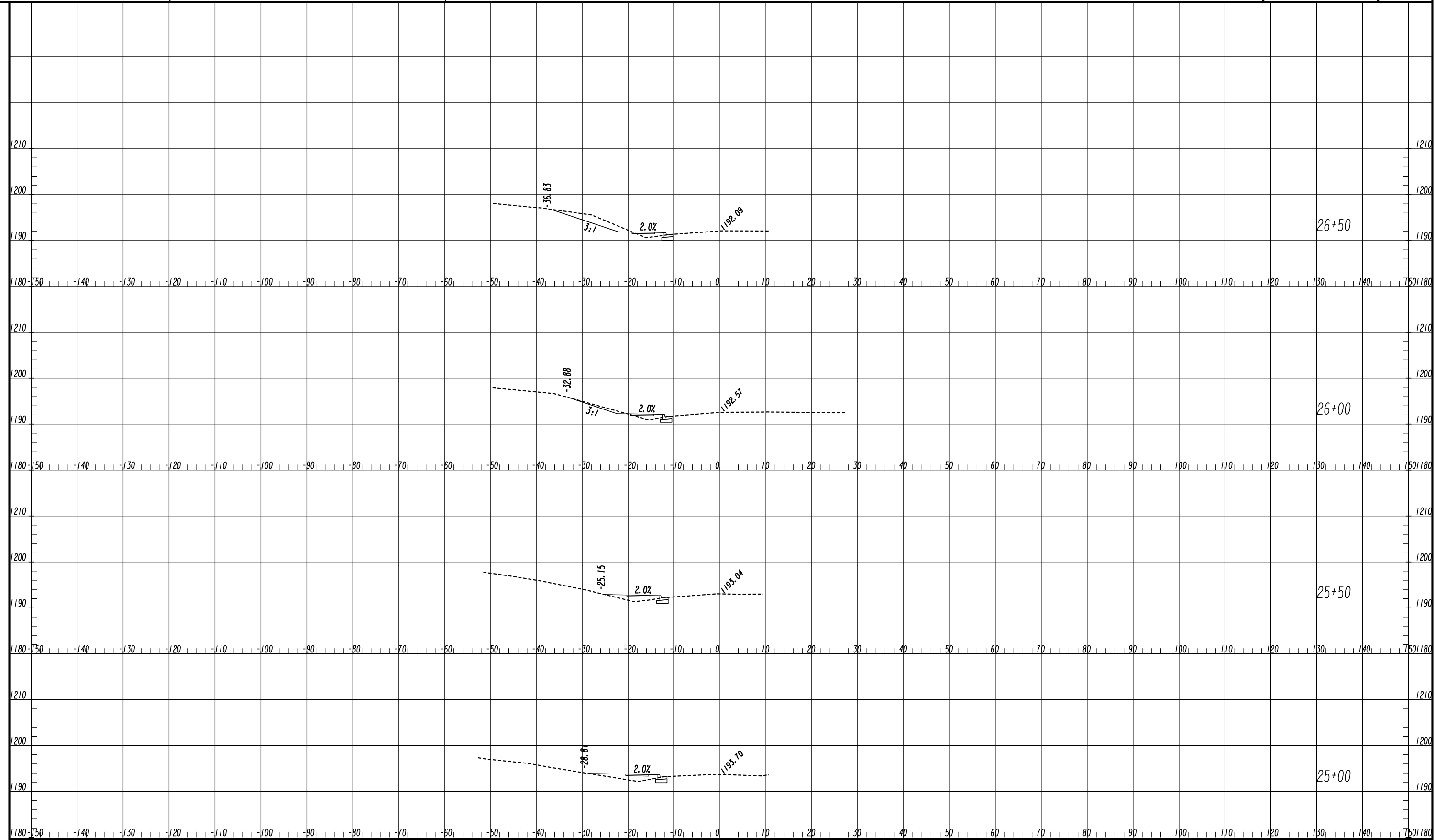
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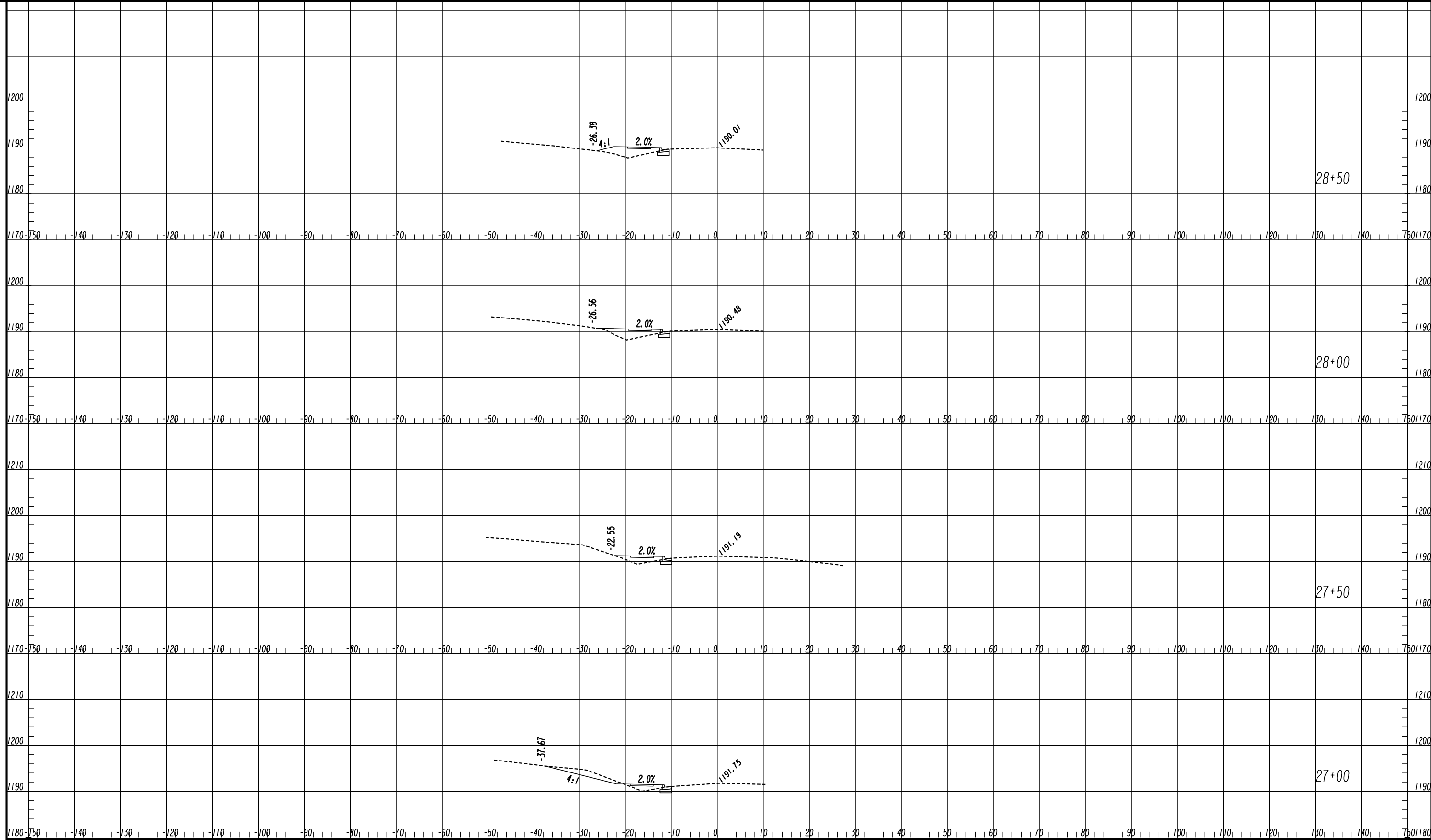
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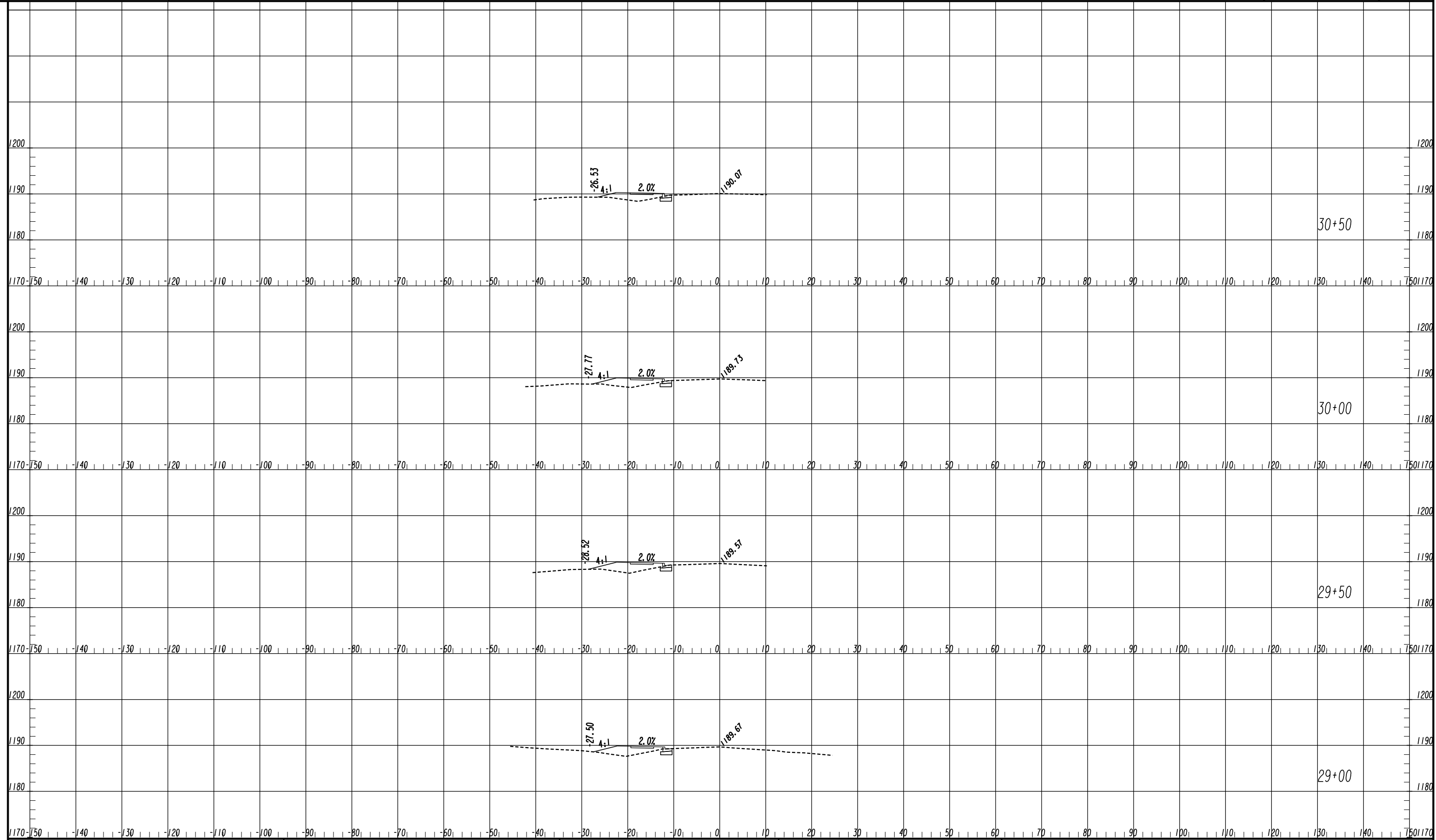
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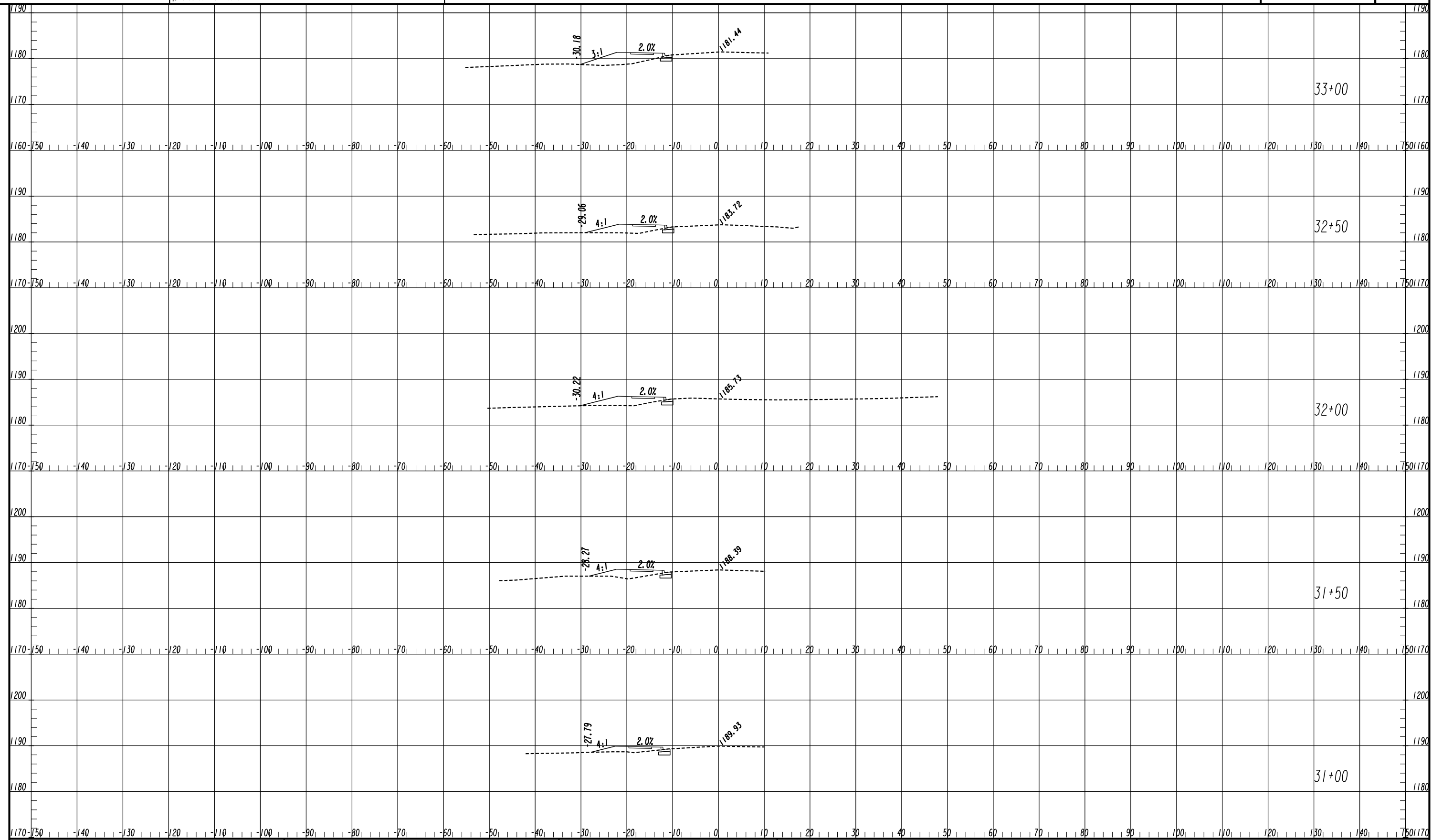
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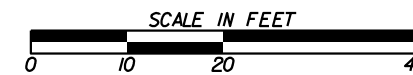
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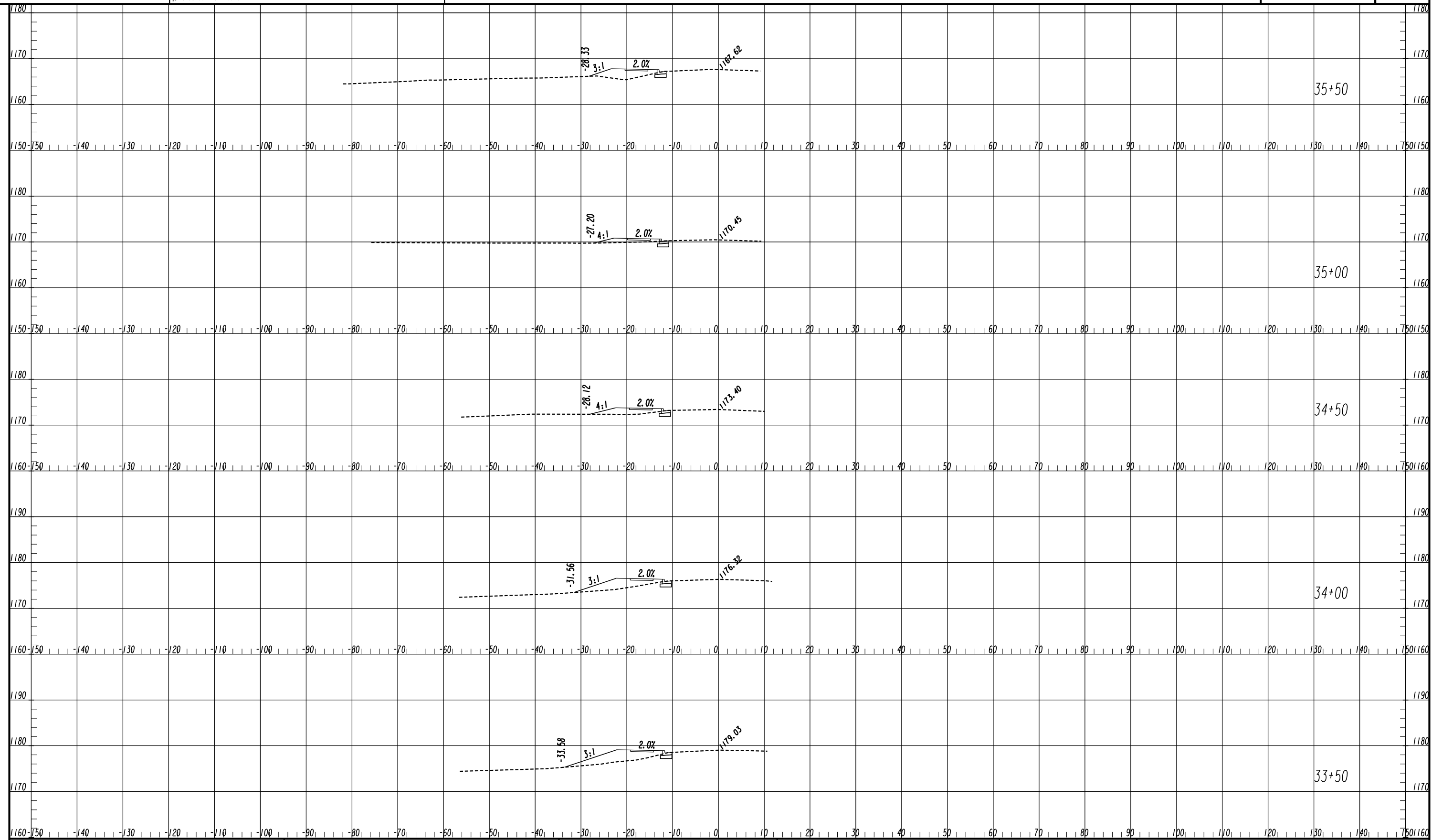
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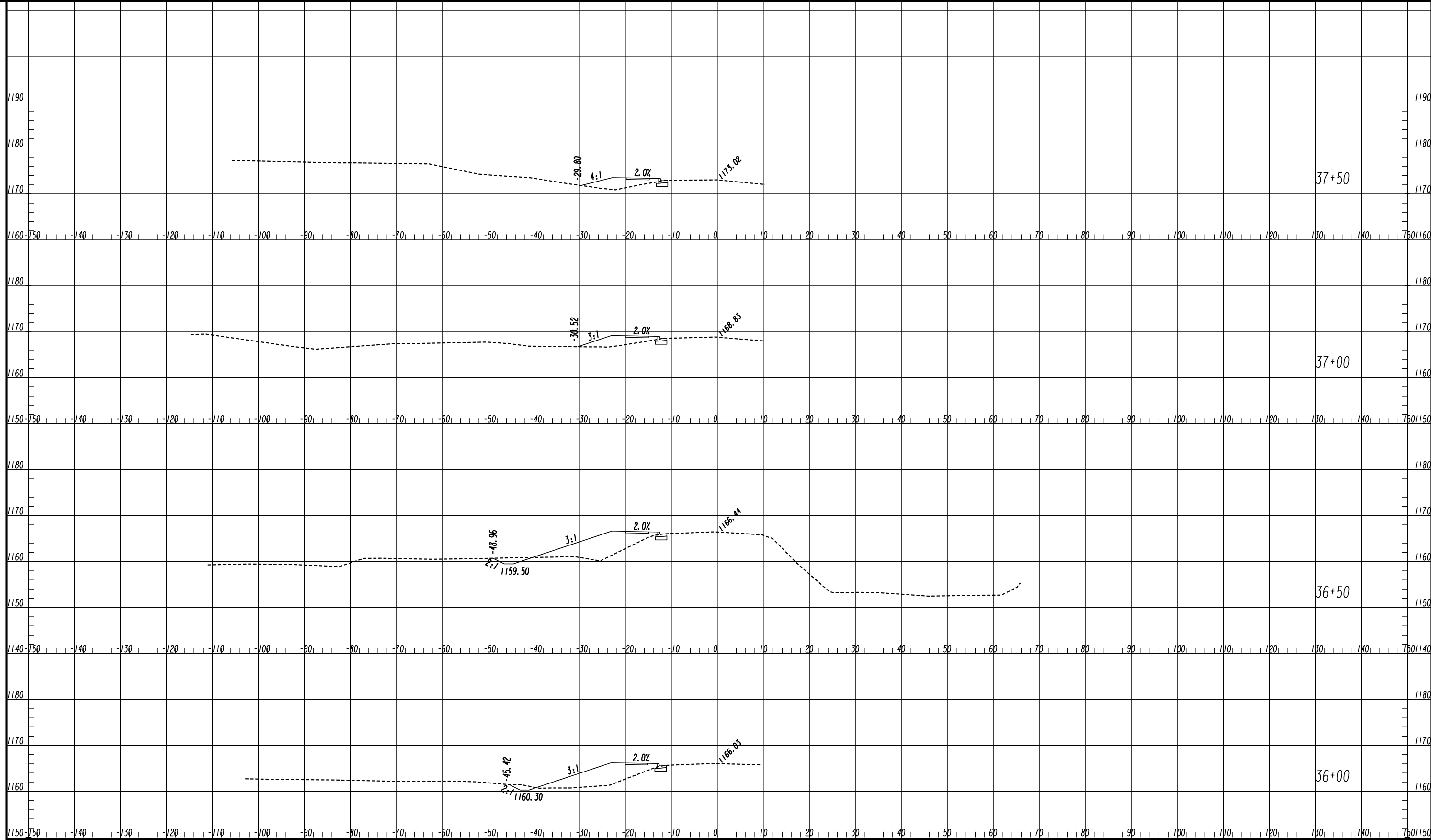
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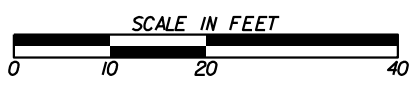
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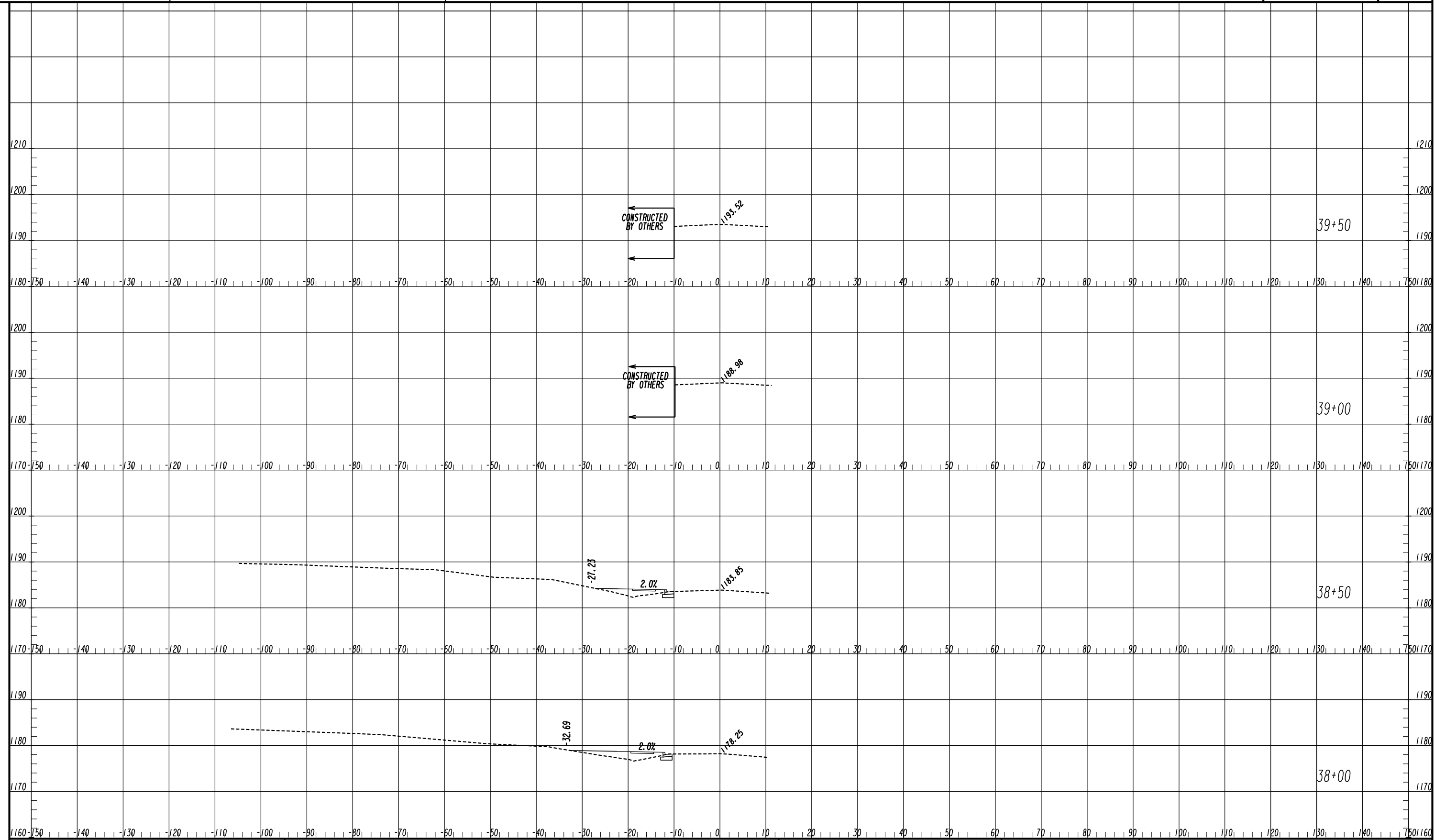
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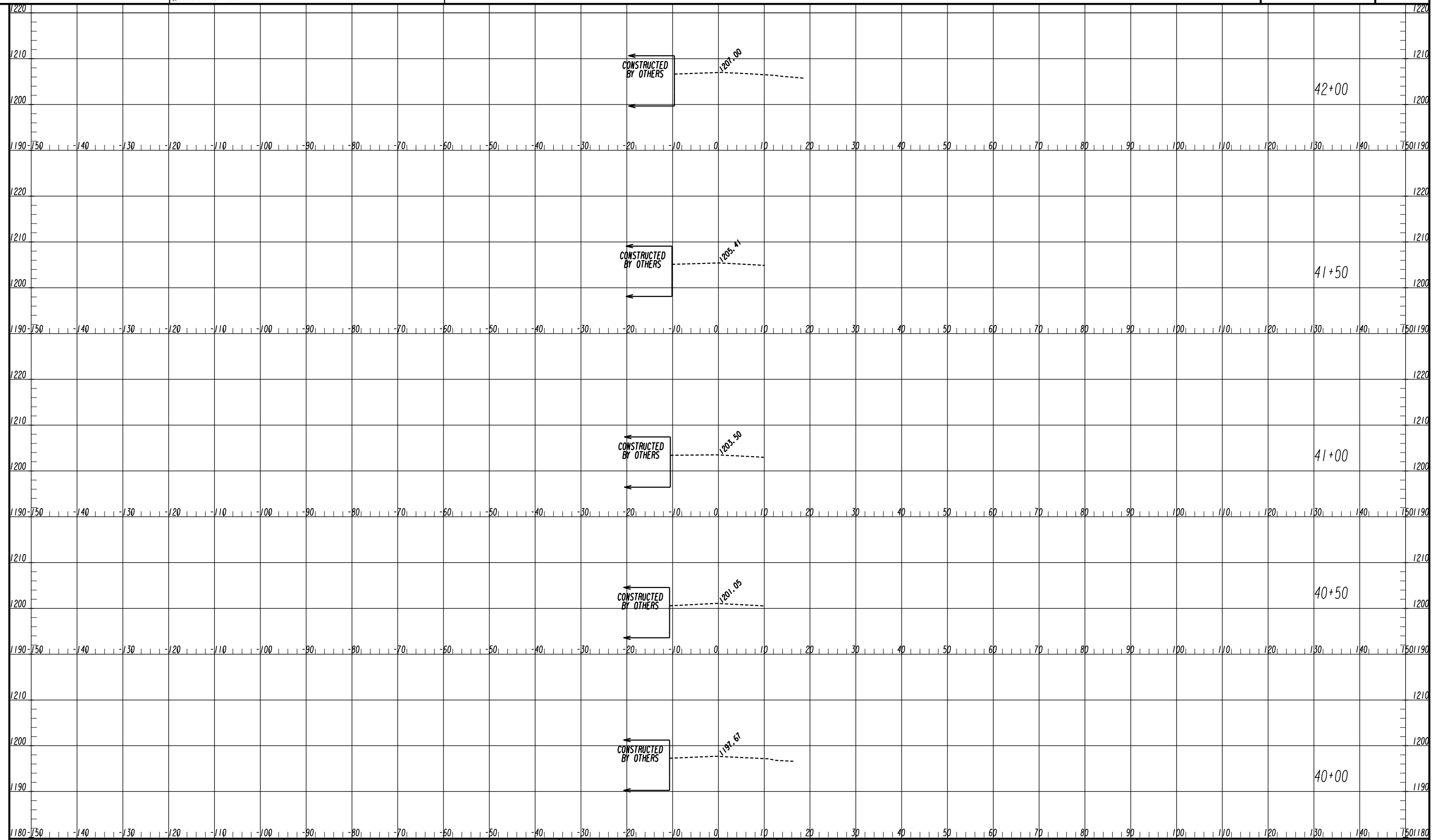
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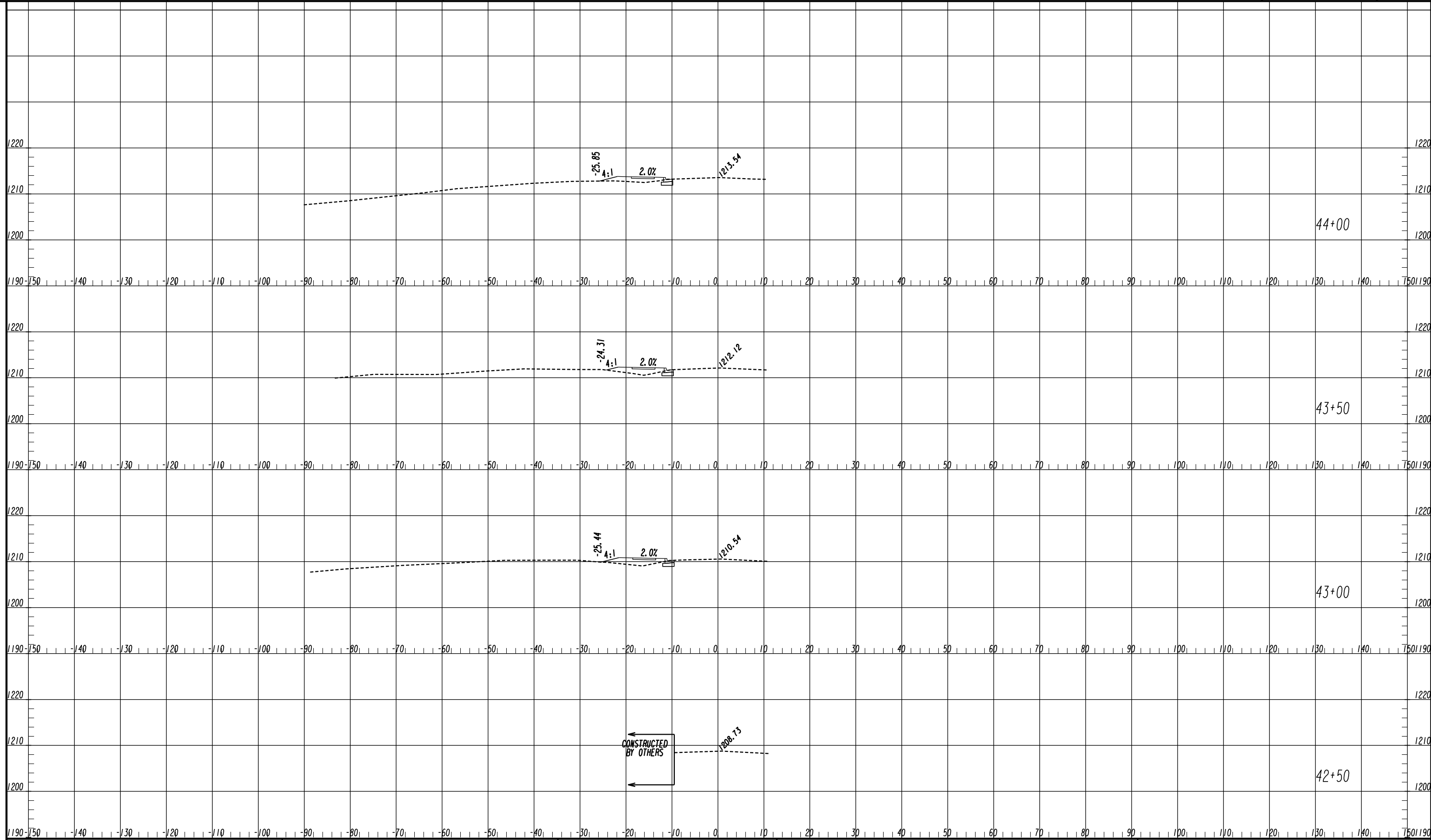
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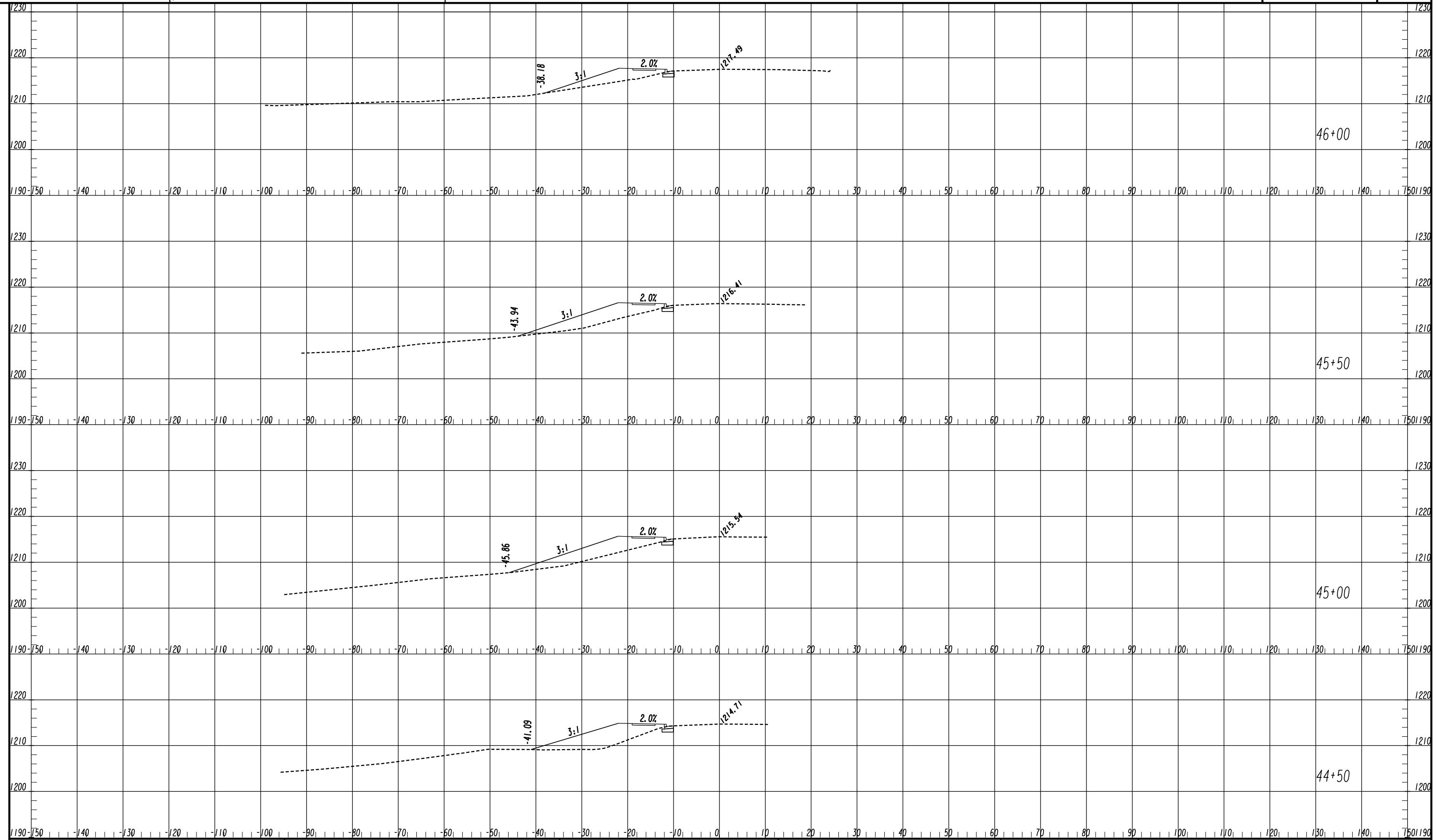
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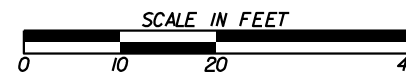
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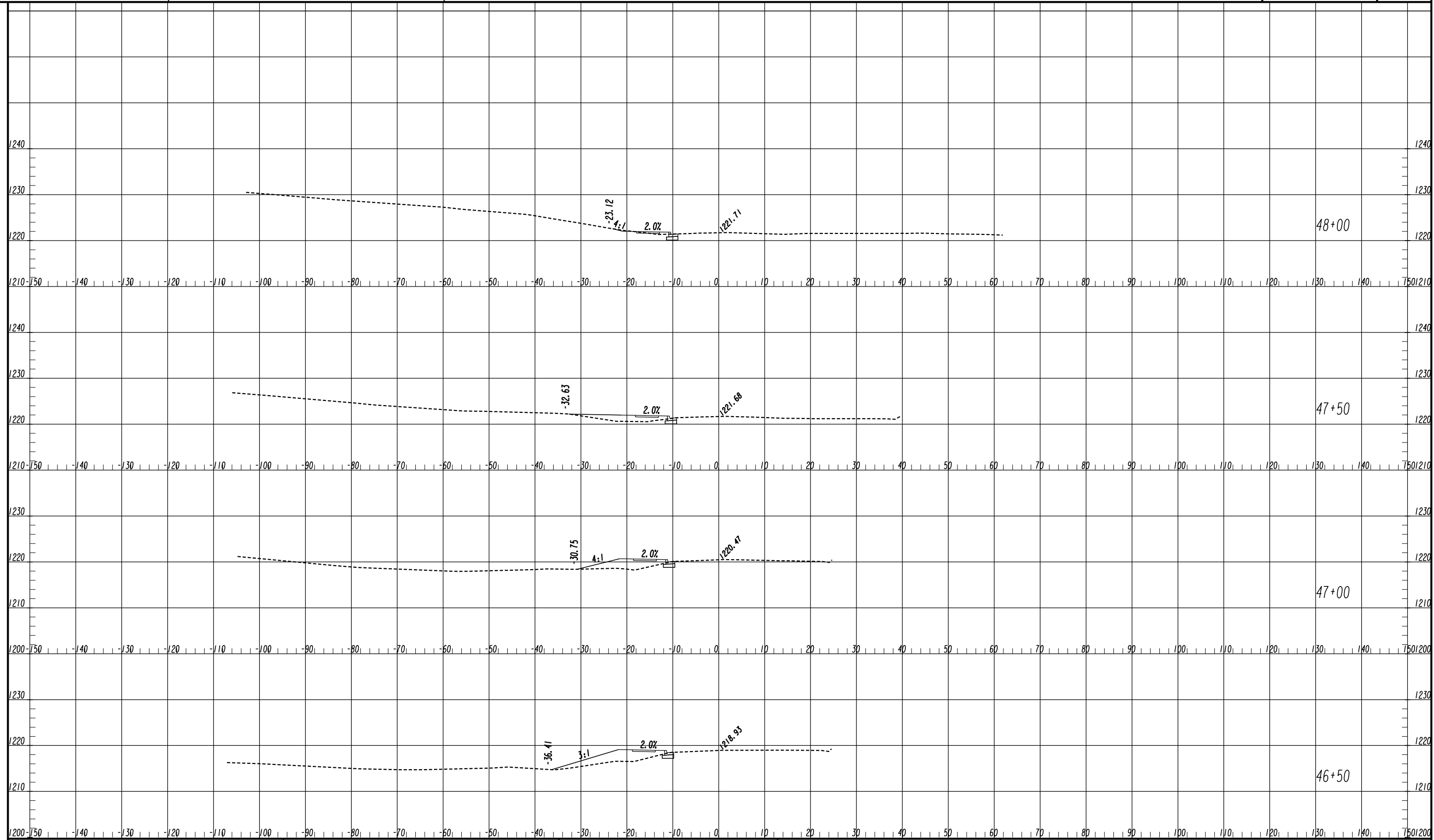
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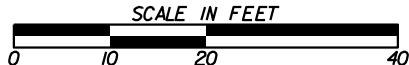
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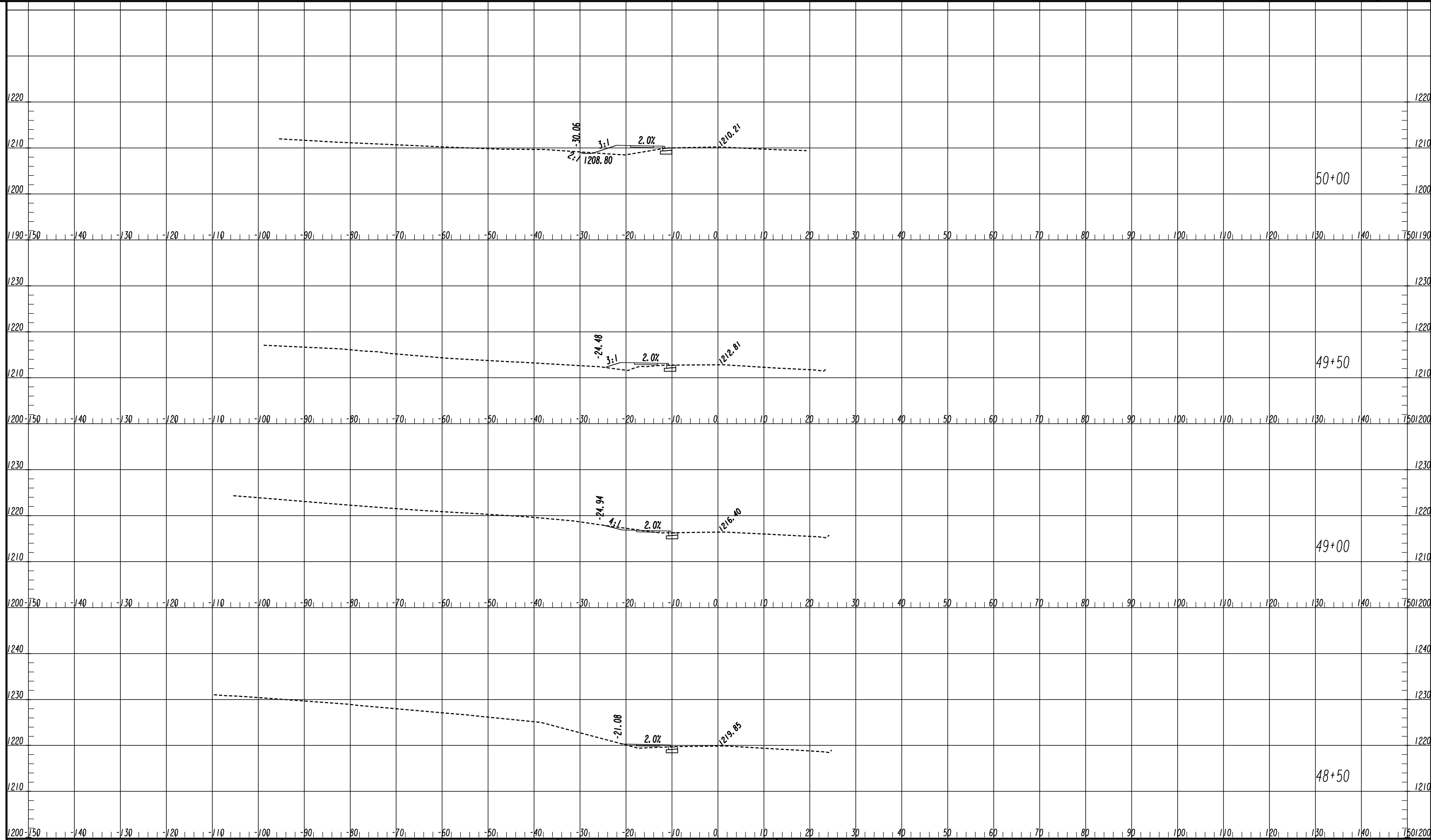
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CROSS SECTIONS

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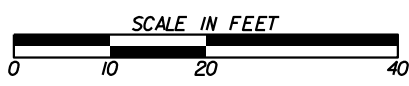
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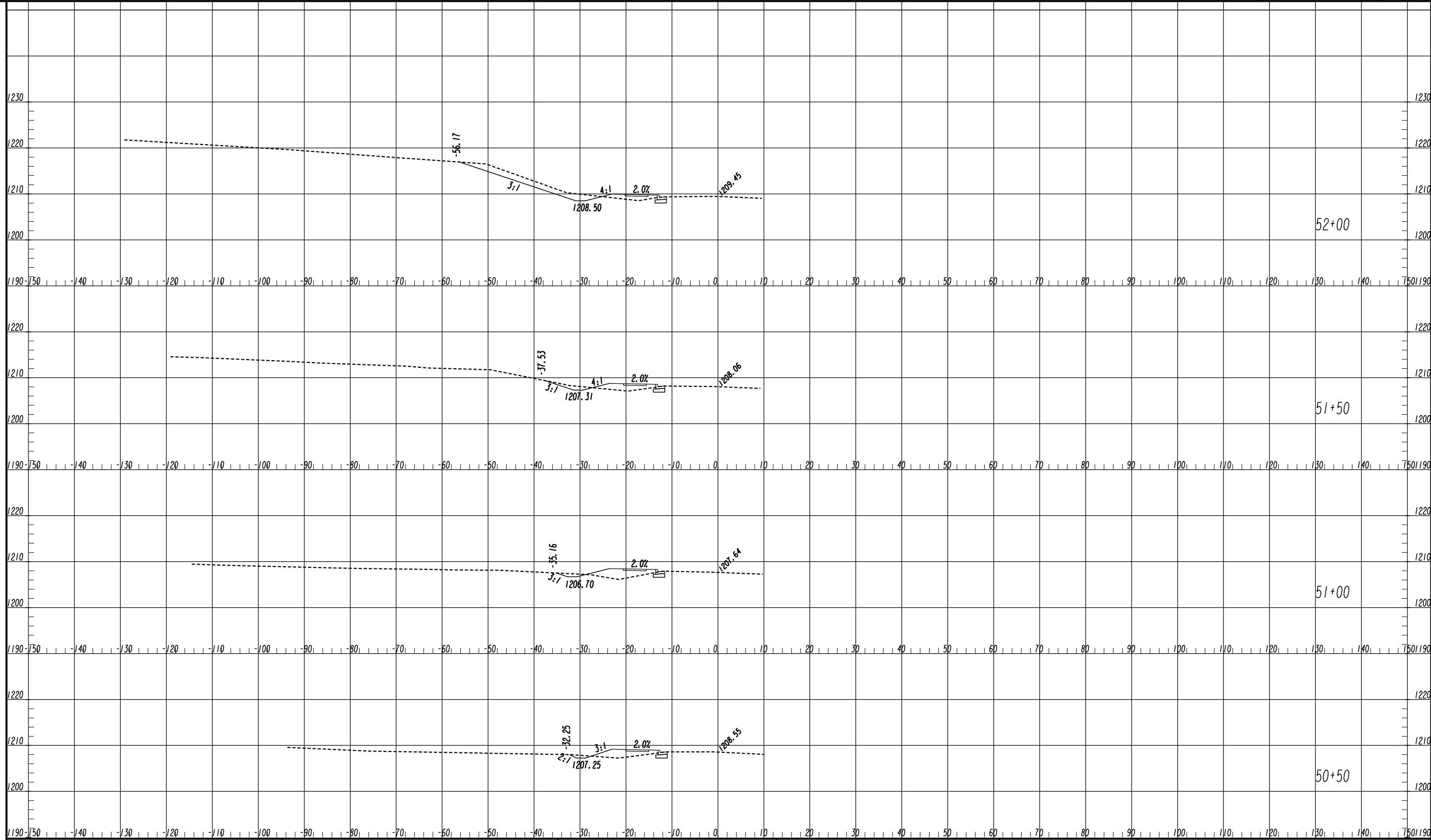
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REVISION DATES	

CROSS SECTIONS		
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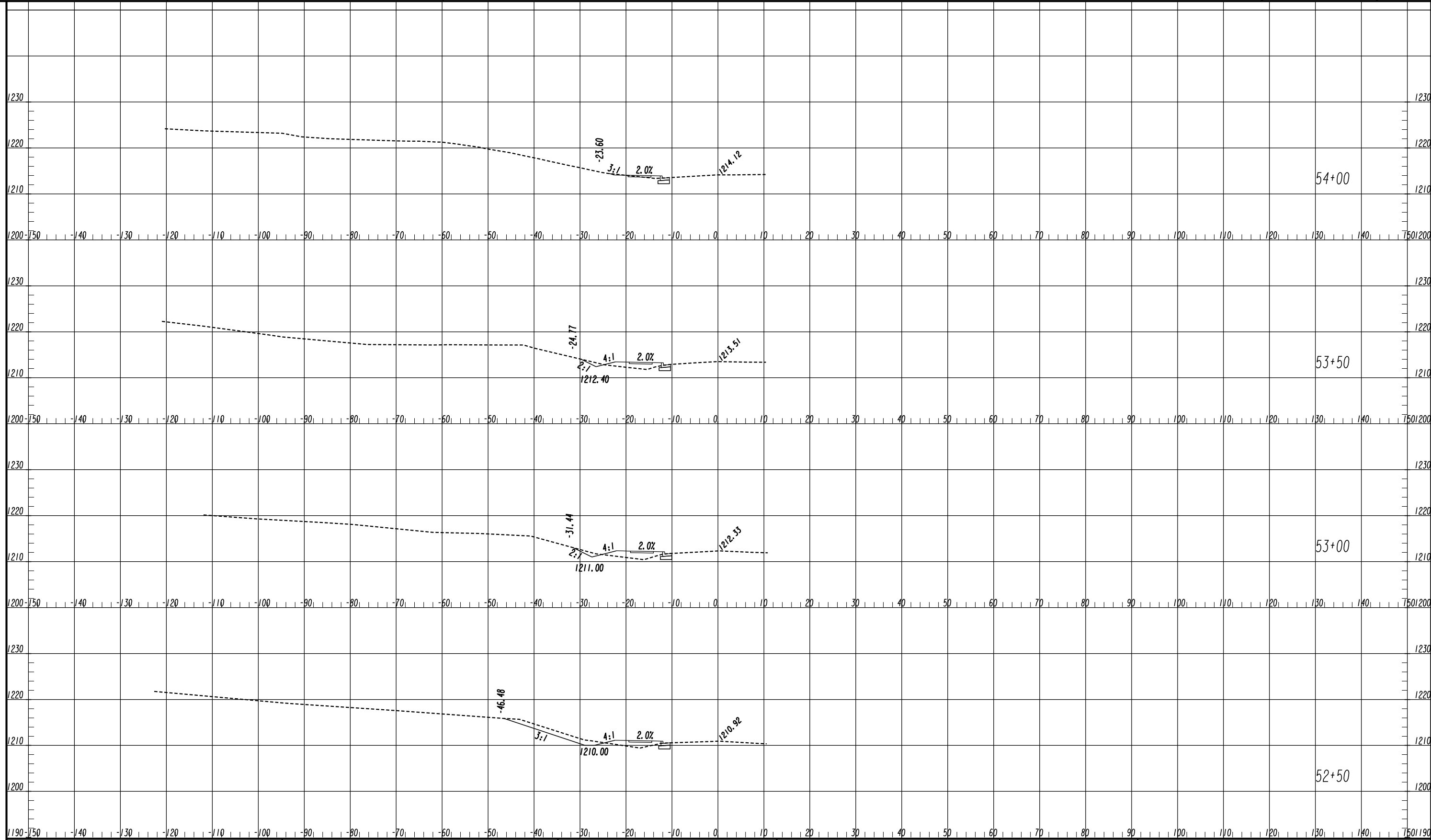
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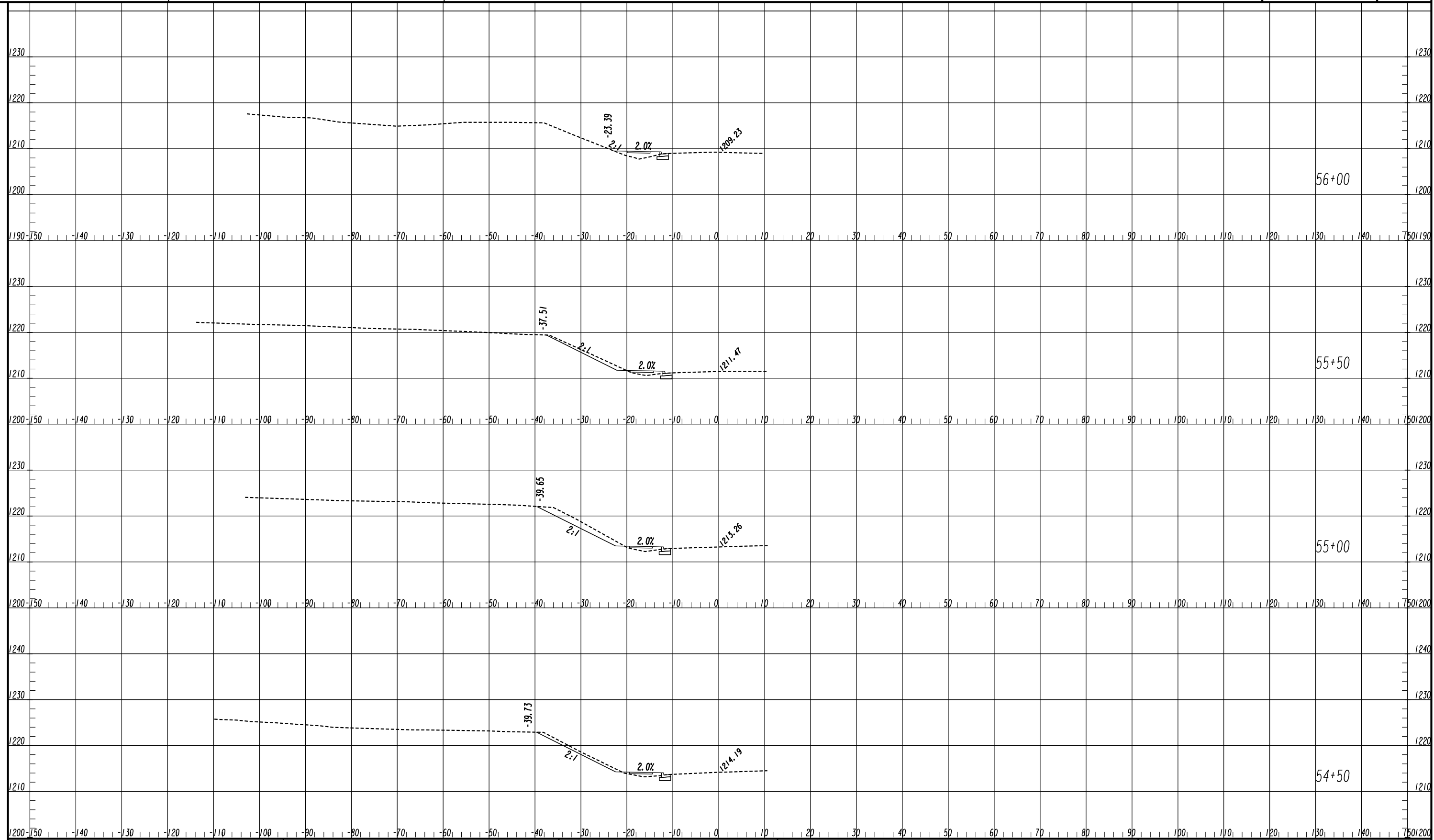
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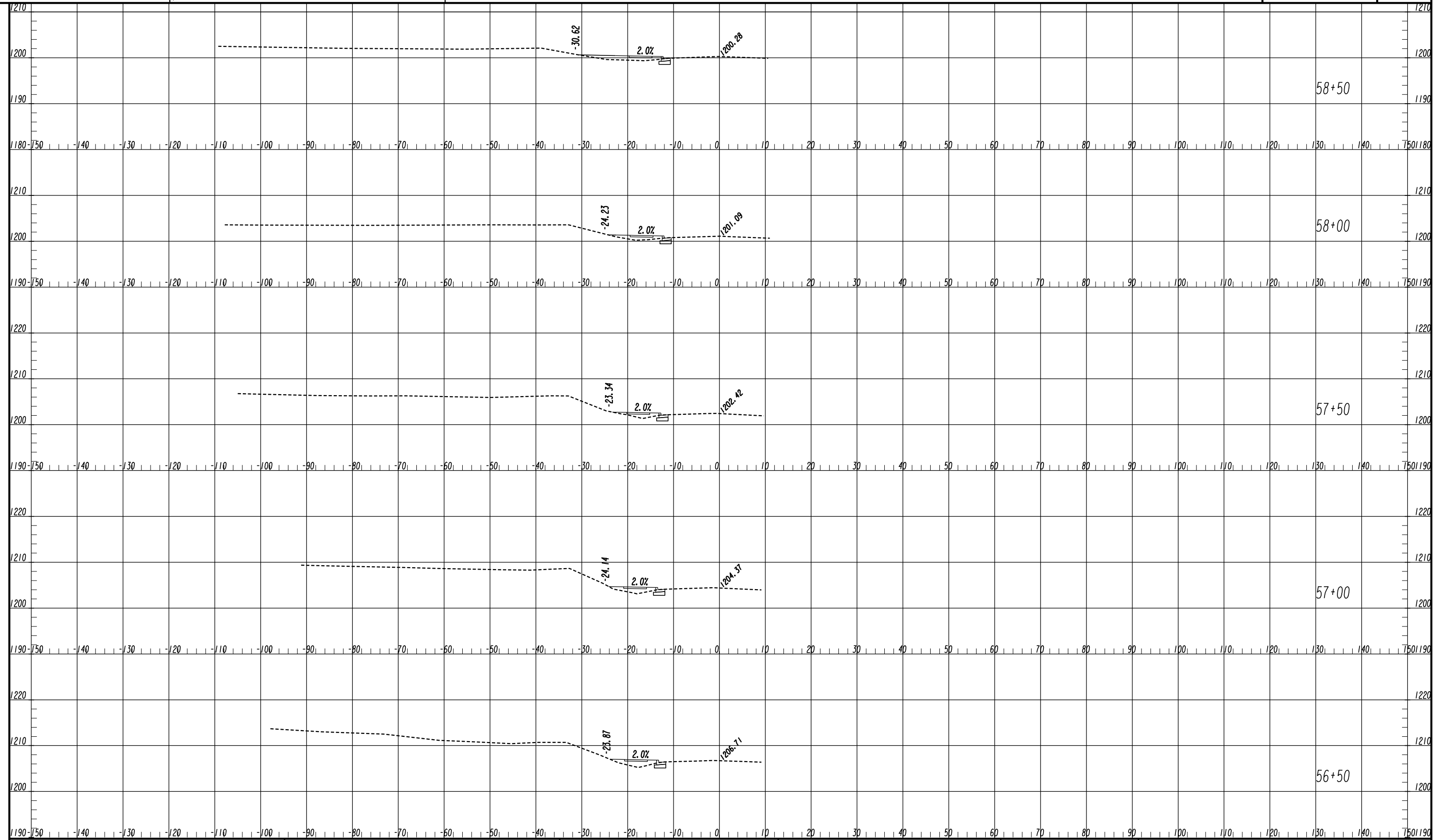
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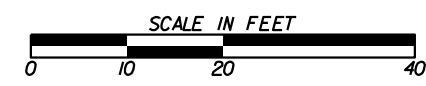


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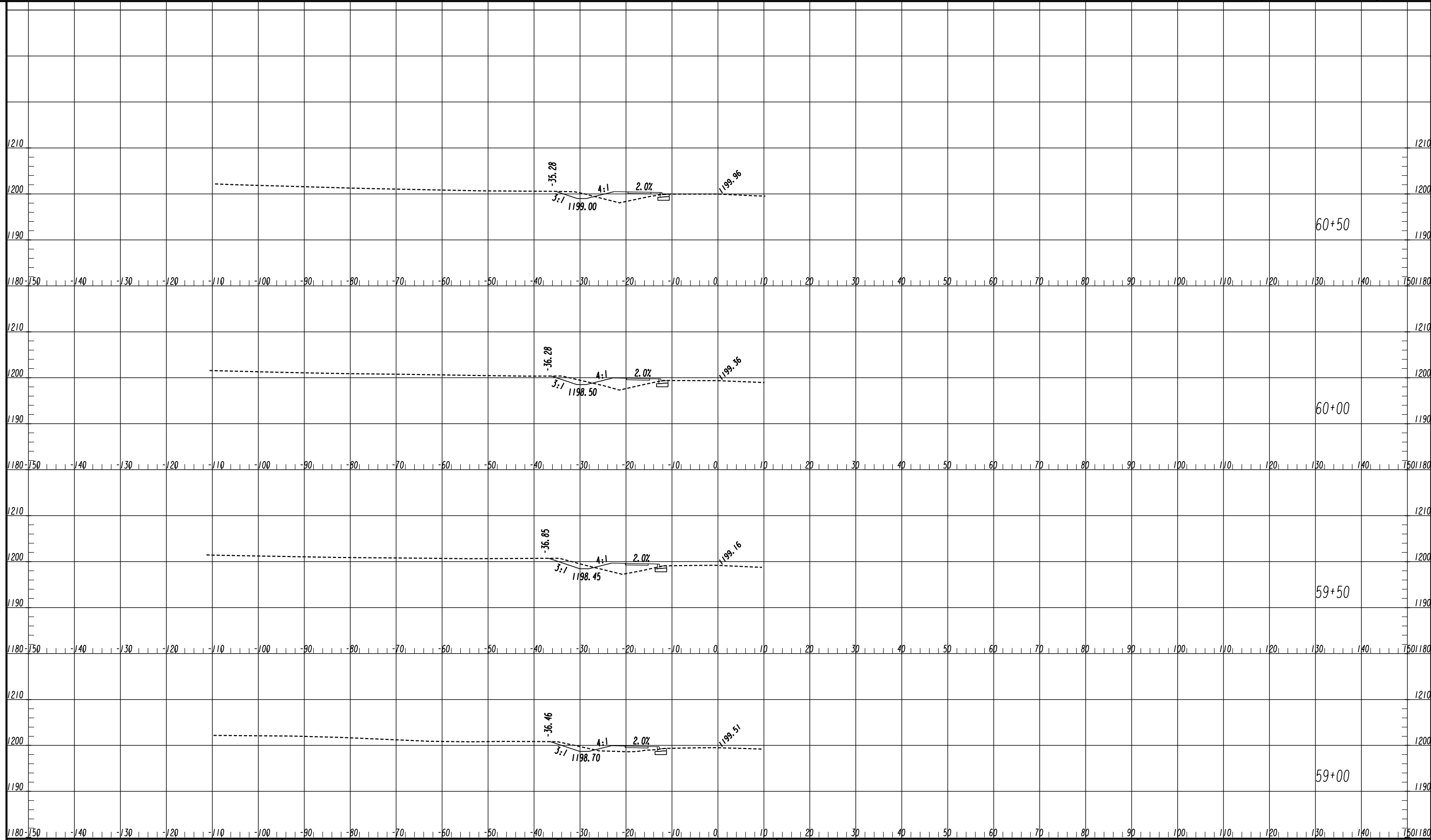
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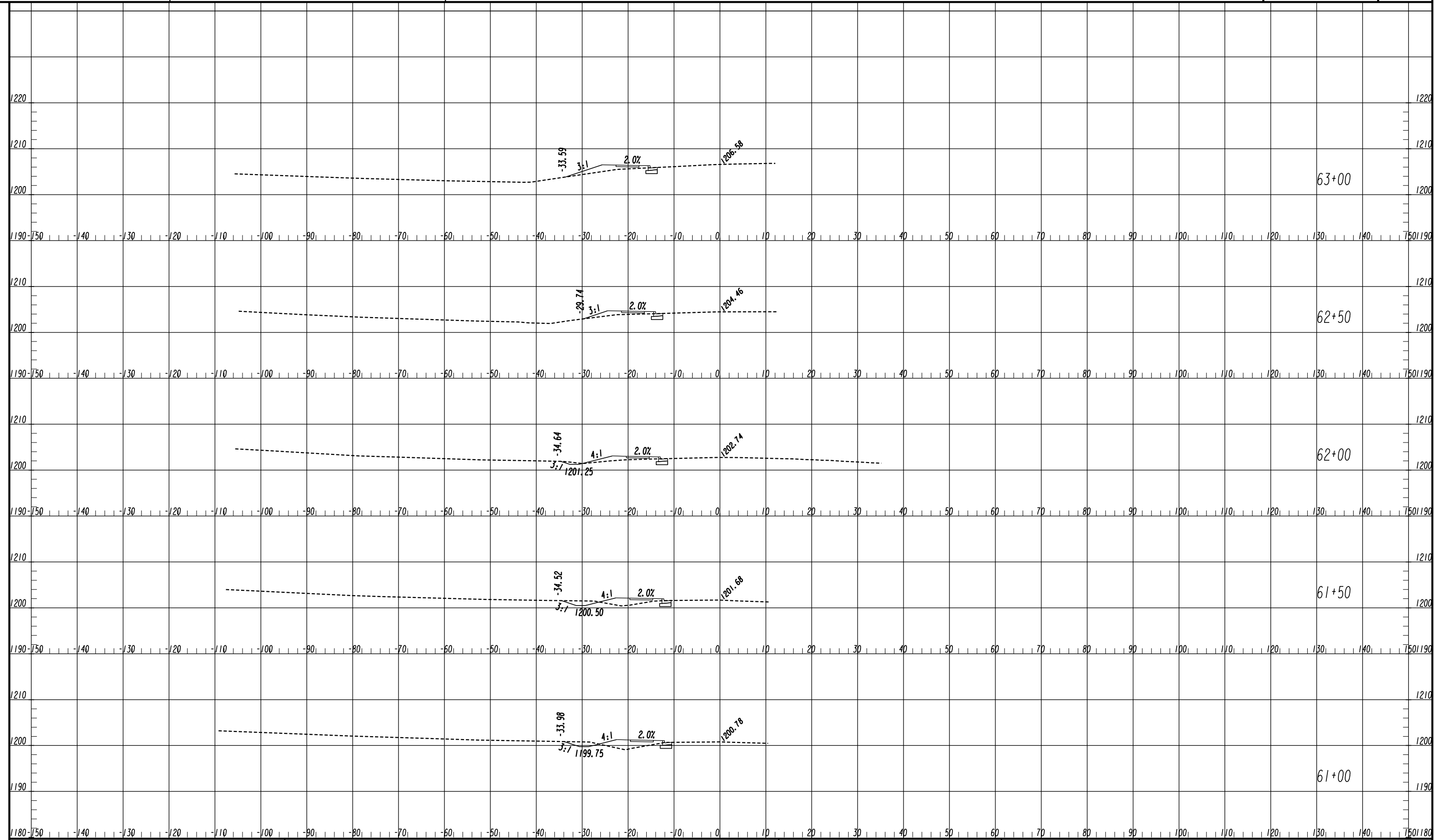
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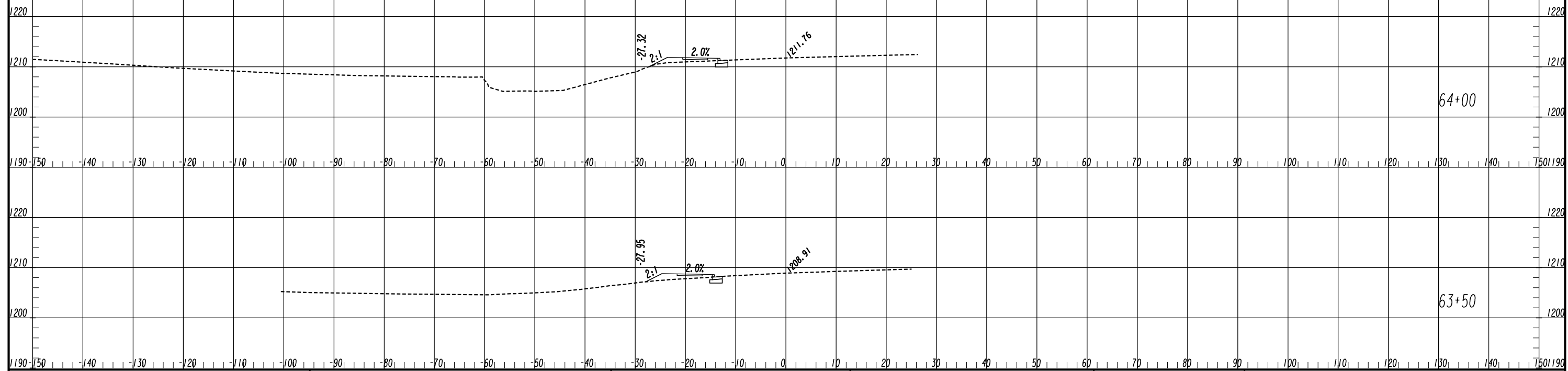
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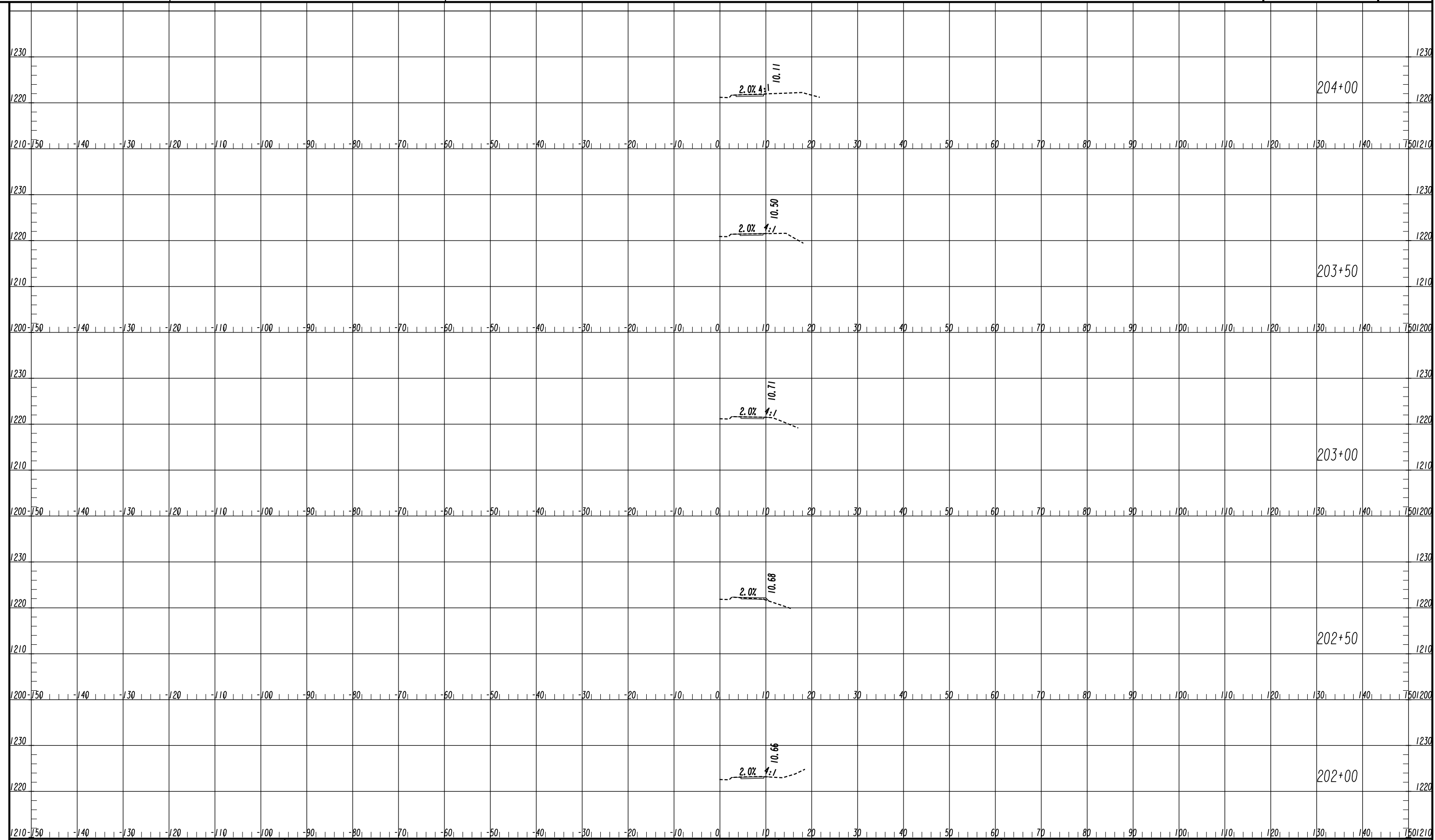
PROFESSIONAL ENGINEERING

Branch Office:
 65 Aberdeen Drive
 Glasgow, KY 42048
 (270) 651-7220
 2500 Nelson Miller Parkway
 Louisville, KY 40223
 (502) 245-3883
 5160 Acworth Landing Drive
 Acworth, GA 30093
 (770) 421-8422



REVISION DATES	

CROSS SECTIONS		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0022
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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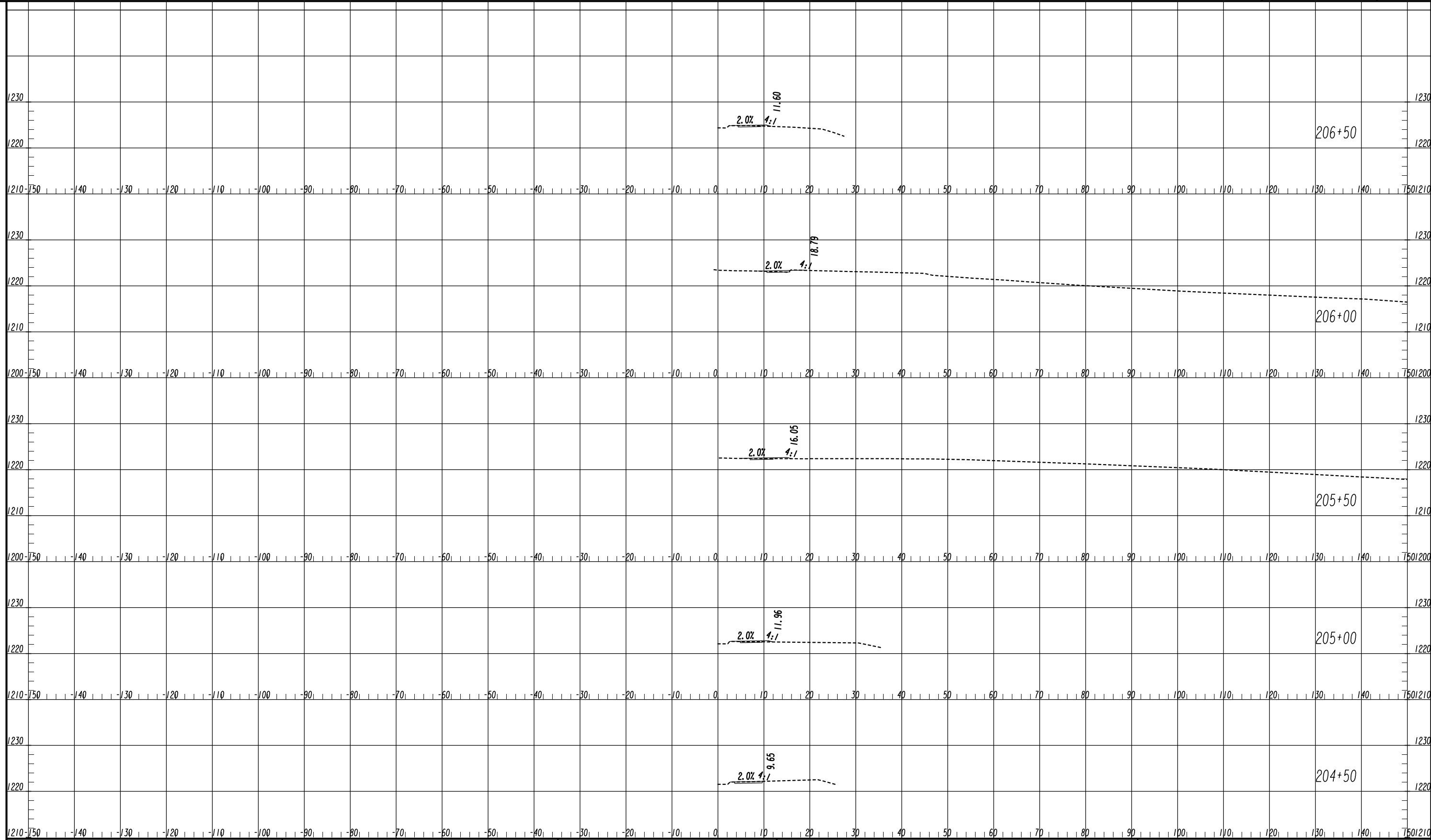
2500 Nelson Miller Parkway
Louisville, KY 40223
502-245-3853

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Acworth, GA 30092
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REVISION DATES		CROSS SECTIONS	
		RONALD REAGAN BOULEVARD	
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BACKCHECKED:	DATE:	23-0023	
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Brush Office
65 Aberdeen Drive
Dodgeville, KY 42041
(270) 651-7220

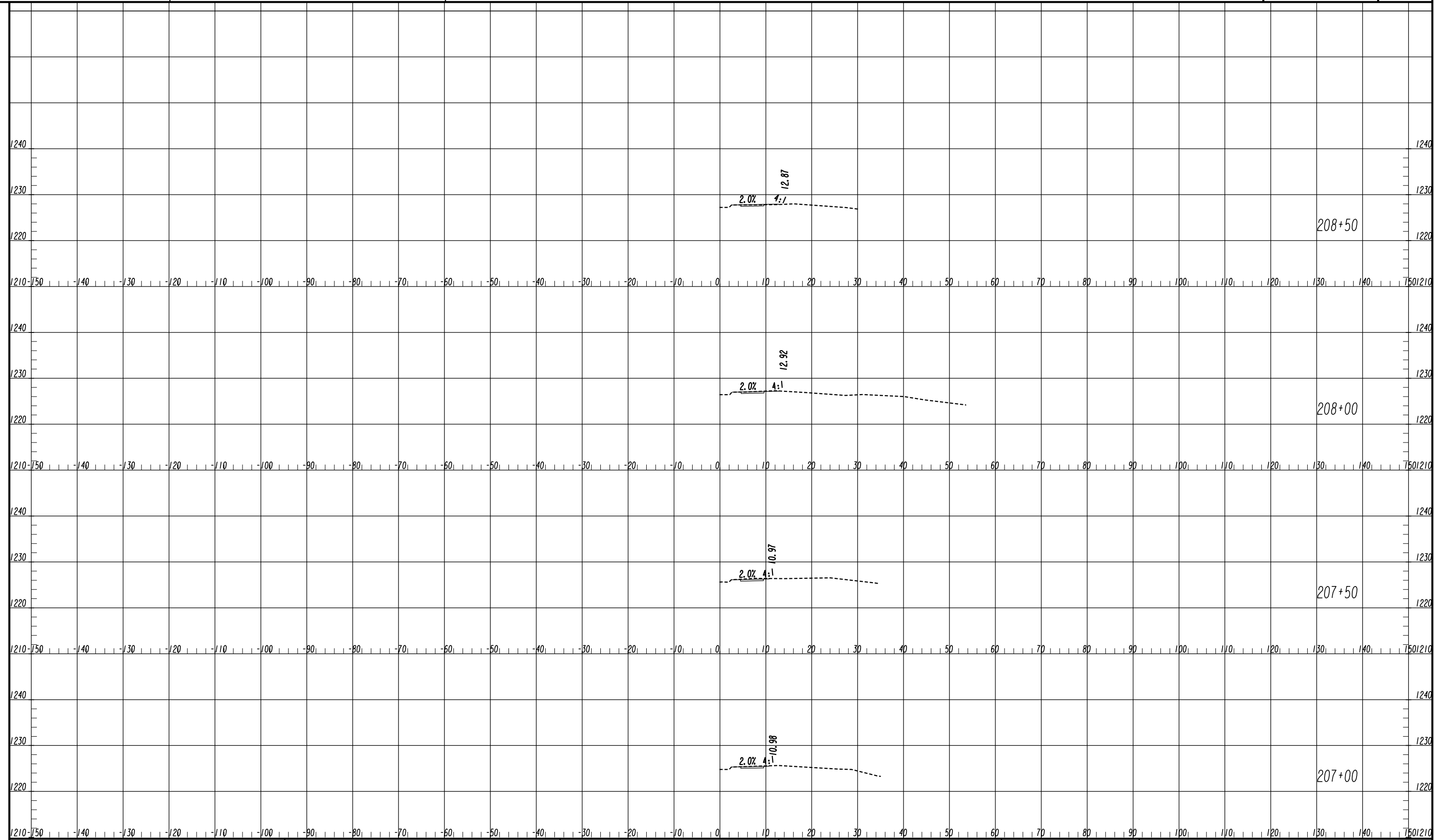
2500 Nelson Miller Parkway
Louisville, KY 40223
(502) 245-3883

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Acworth, GA 30091
(770) 421-8422

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REVISION DATES		CROSS SECTIONS	
		RONALD REAGAN BOULEVARD CHECKED: _____ DATE: _____ BACKCHECKED: _____ DATE: _____ CORRECTED: _____ DATE: _____ VERIFIED: _____ DATE: _____ DRAWING No. 23-0024	



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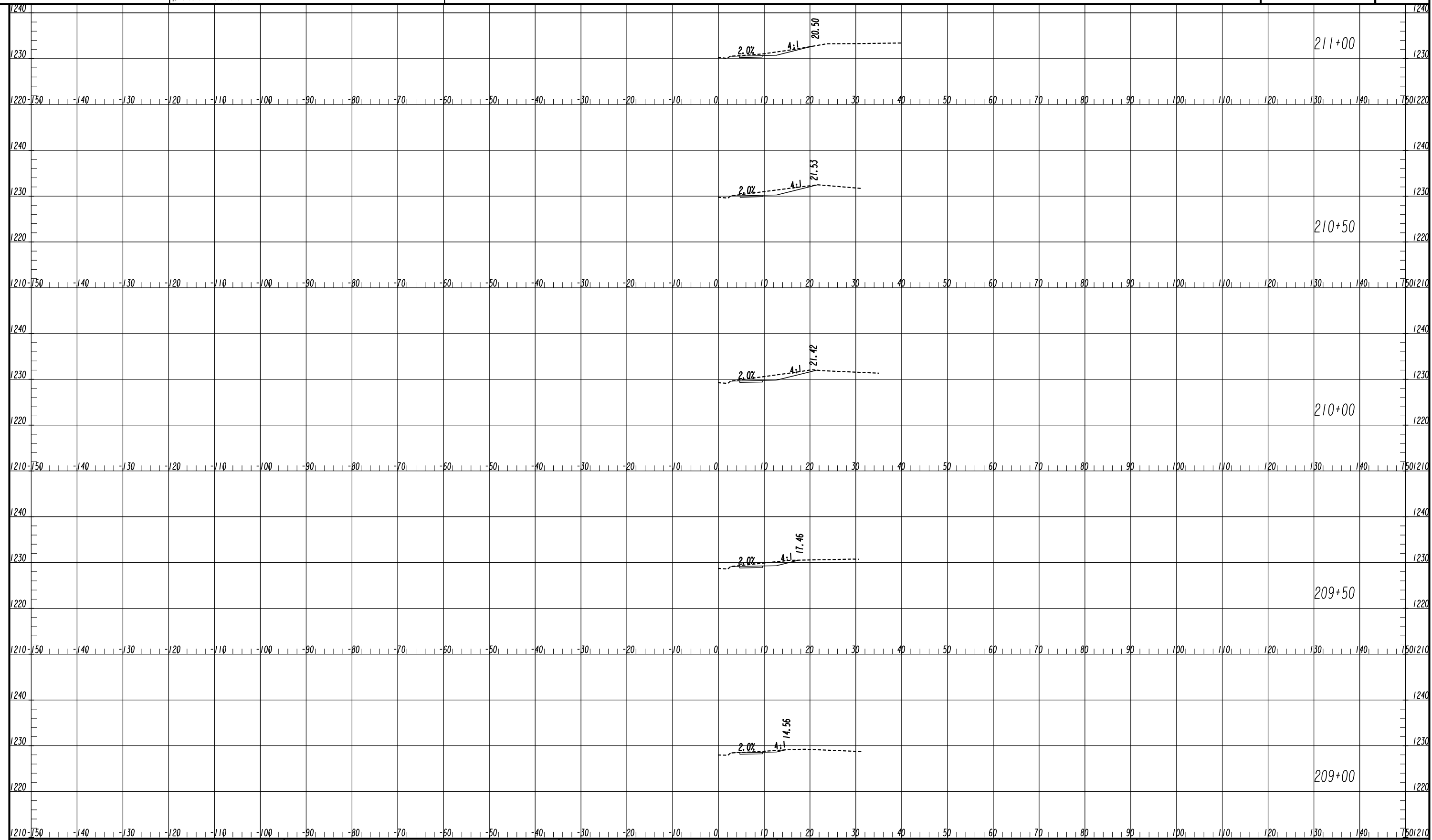
Branch Office:
 65 Aberdeen Drive
 Glasgow, KY 42044
 (270) 651-7220
 2500 Nelson Miller Parkway
 Louisville, KY 40223
 (502) 245-3883

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 Acworth, GA 30091
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REVISION DATES		CROSS SECTIONS	
		RONALD REAGAN BOULEVARD	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	23-0025	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

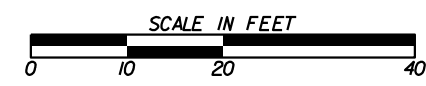


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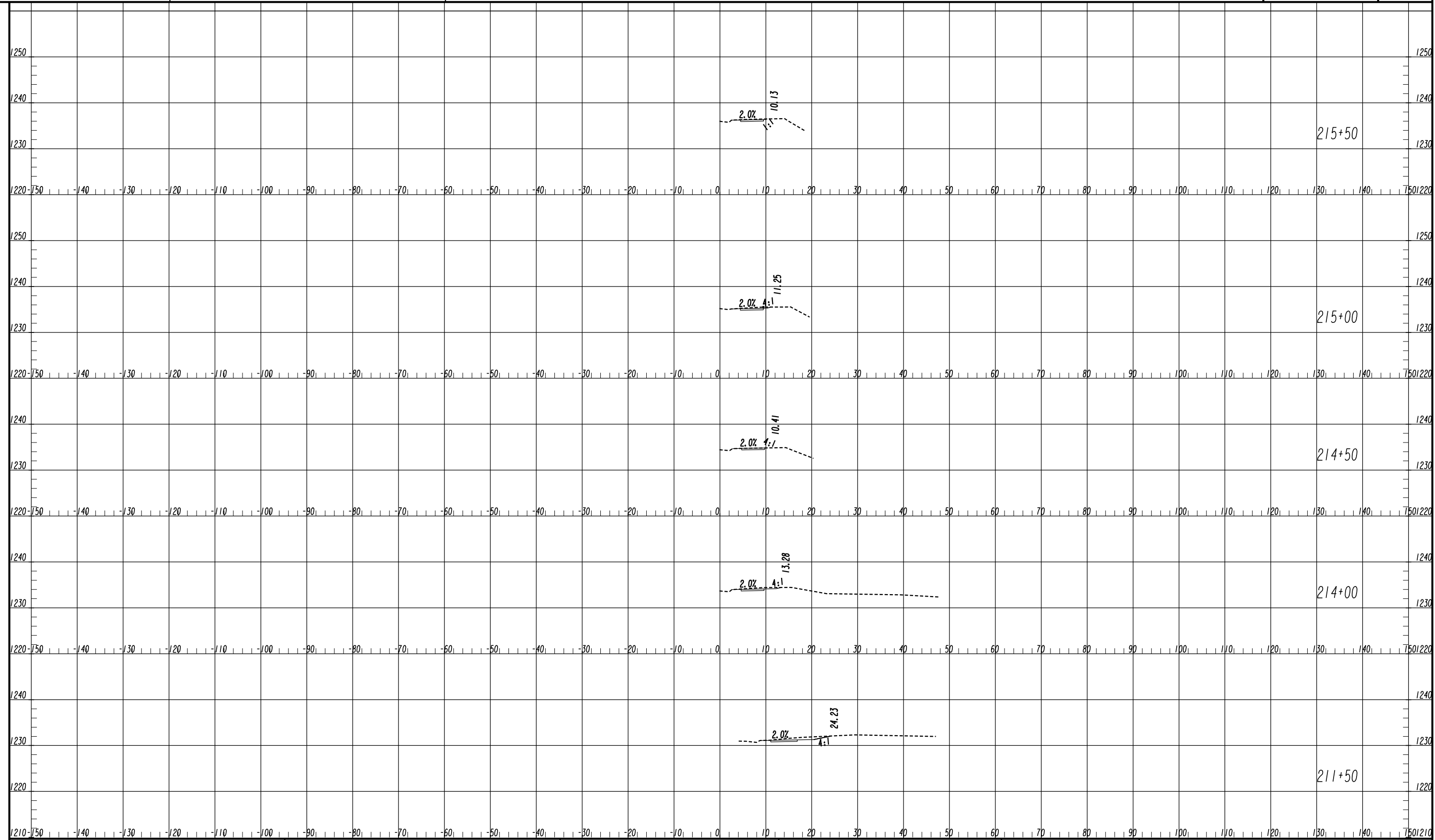
REVISION DATES

NO.	DATE	DESCRIPTION

CROSS SECTIONS

RONALD REAGAN BOULEVARD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0026
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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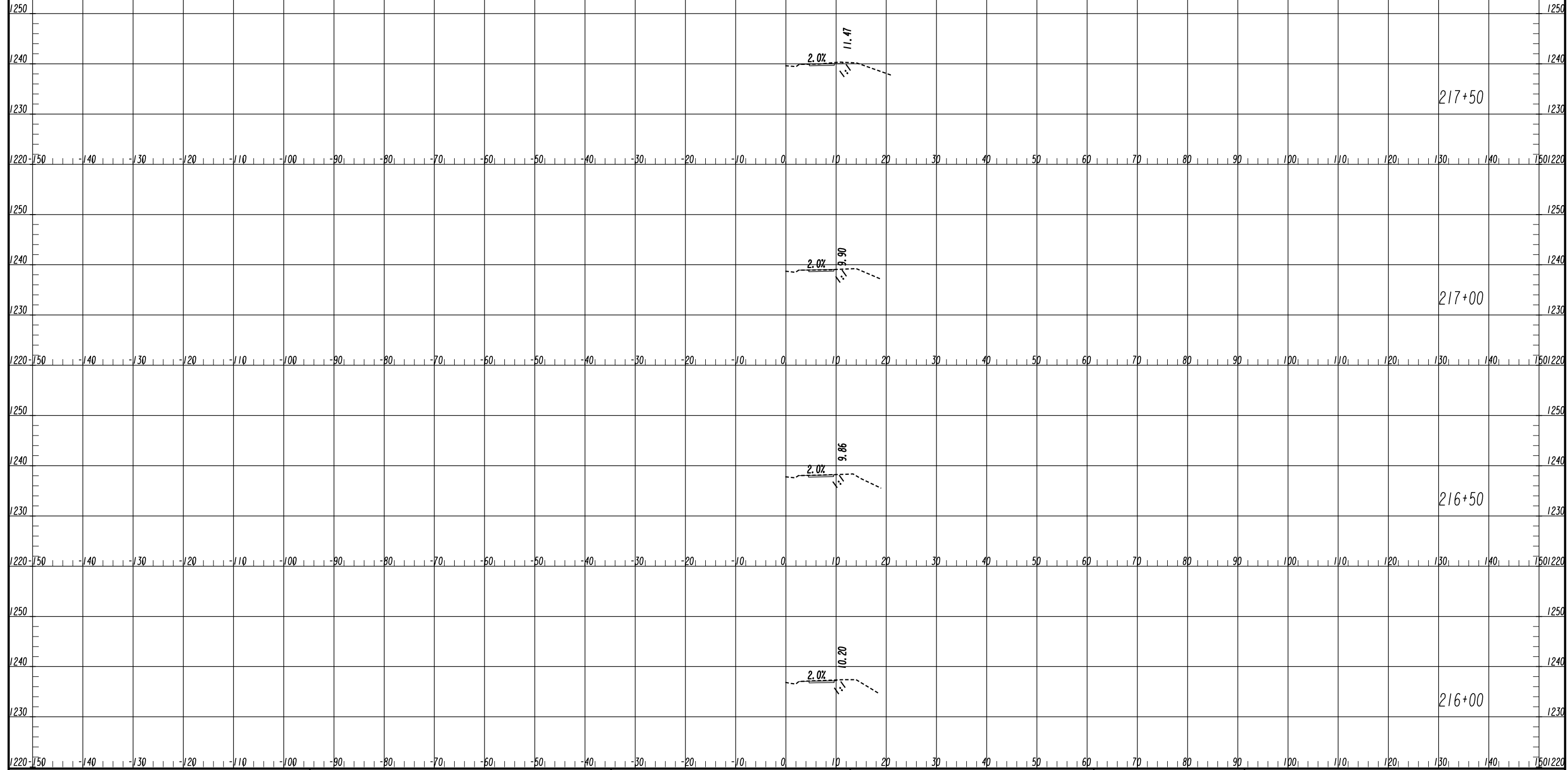
65 Aberdeen Drive
 Glasgow, KY 42044
 (270) 651-7220
 2500 Nelson Miller Parkway
 Louisville, KY 40223
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REVISION DATES		CROSS SECTIONS	
		RONALD REAGAN BOULEVARD	
CHECKED:	DATE:	DRAWING No.	
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CORRECTED:	DATE:		
VERIFIED:	DATE:		



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Branch Office
 65 Aberdeen Drive
 Douglas, KY 40244
 (270) 651-7220
 2500 Nelson Miller Parkway
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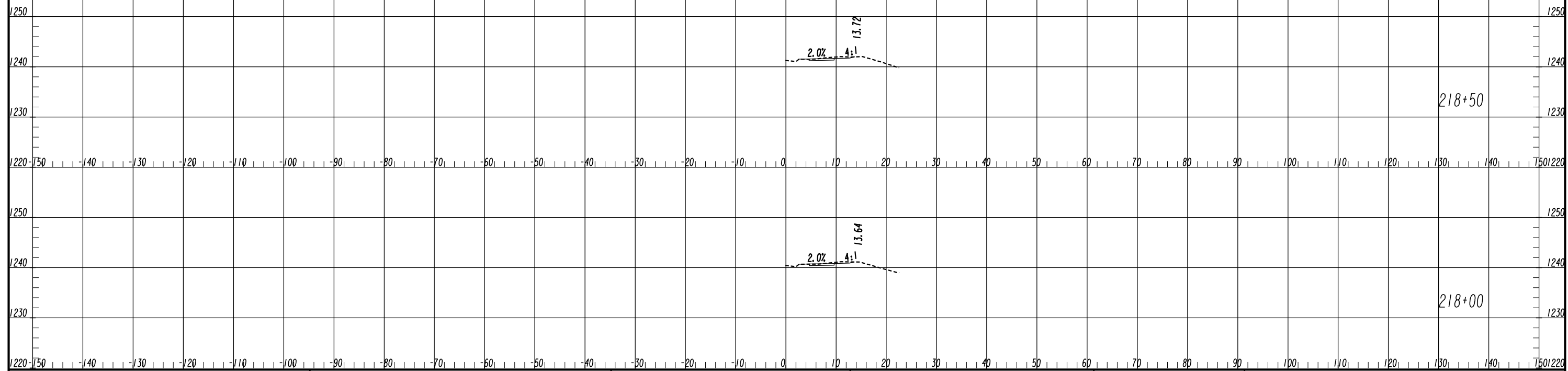
REVISION DATES

NO.	DATE	DESCRIPTION

CROSS SECTIONS

RONALD REAGAN BOULEVARD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0028
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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65 Aberdeen Drive
 Glasgow, KY 40246
 (270) 651-7220
 2500 Nelson Miller Parkway
 Louisville, KY 40223
 (502) 245-3813

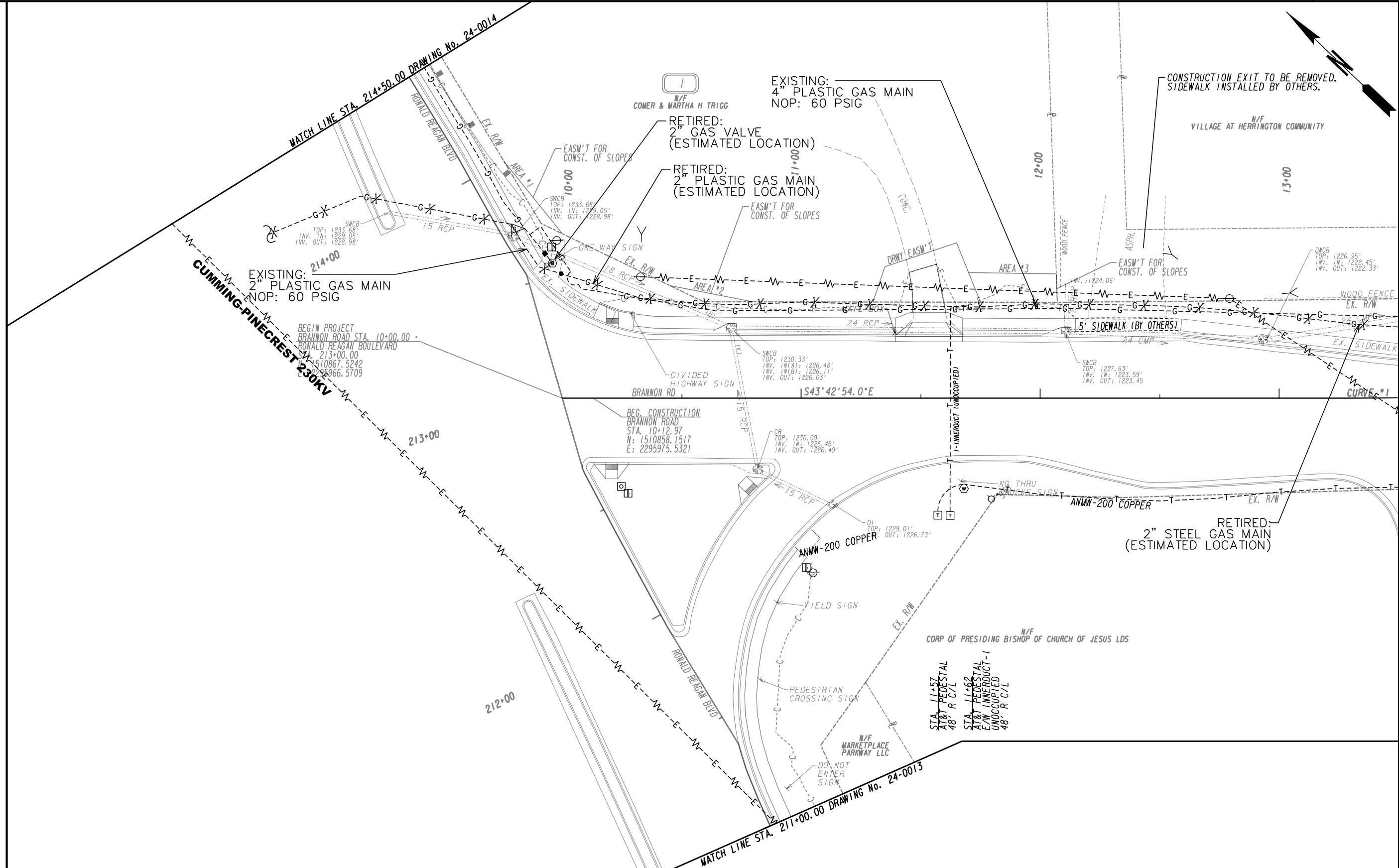
Brush Office
 5160 Acworth Landing Drive
 Acworth, GA 30093
 (770) 421-8422

PROFESSIONAL ENGINEERING



REVISION DATES	

CROSS SECTIONS		
RONALD REAGAN BOULEVARD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0029
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE	-----E-----
REQUIRED R/W LINE	-----F-----
CONSTRUCTION LIMITS	-----G-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----H-----
EASEMENT FOR CONSTR OF SLOPES	-----I-----
EASEMENT FOR CONSTR OF DRIVES	-----J-----

BEGIN LIMIT OF ACCESS.....BLA	-----K-----
END LIMIT OF ACCESS.....ELA	-----L-----
REQ'D LIMIT OF ACCESS	-----M-----
REQ'D LIMIT OF ACCESS & R/W	-----N-----
ORANGE BARRIER FENCE	-----O-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----P-----

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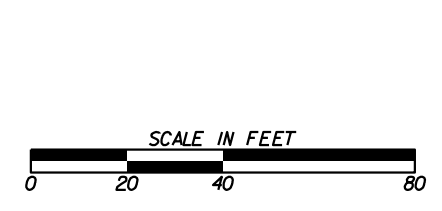
0 65 Aberdeen Drive
Gadsden, AL 36040
(270) 651-7220

0 2500 Nelson Miller Parkway
Louisville, KY 40223
(502) 245-3852

0 560 Acworth Landing Drive
Acworth, GA 30006
(770) 421-8422

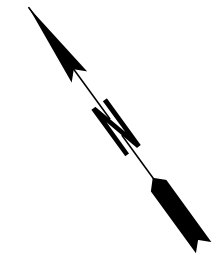
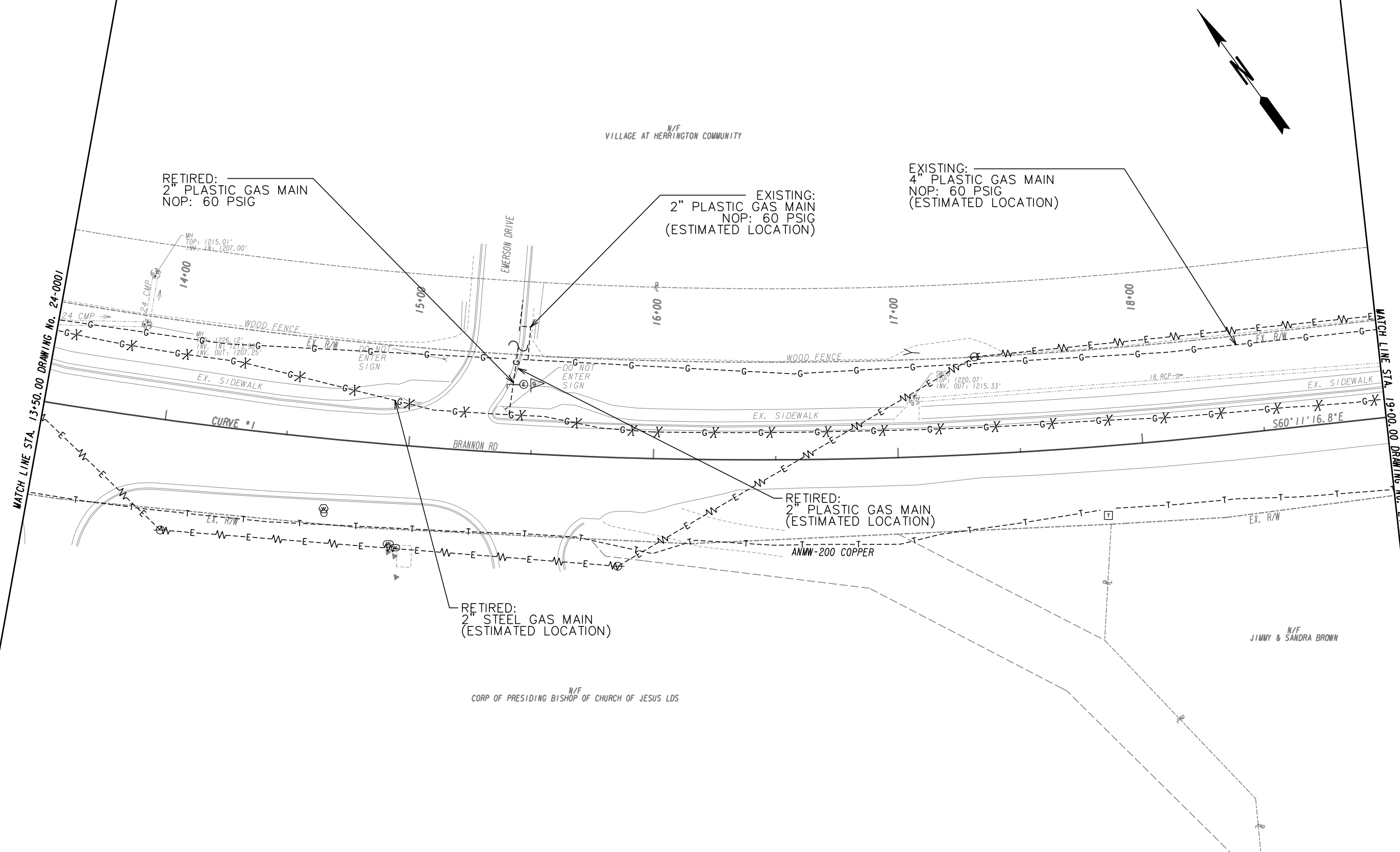
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REVISION DATES	

UTILITY PLANS			
BRANNON ROAD			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			24-0001



PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	-----g-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----h-----
EASEMENT FOR CONSTR OF SLOPES	-----i-----
EASEMENT FOR CONSTR OF DRIVES	-----j-----

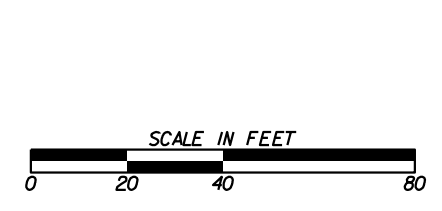
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END LIMIT OF ACCESS.....ELA	-----l-----
REQ'D LIMIT OF ACCESS	-----m-----
REQ'D LIMIT OF ACCESS & R/W	-----n-----
ORANGE BARRIER FENCE	-----o-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----p-----

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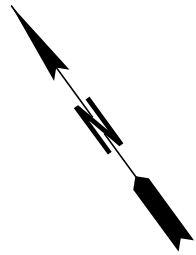
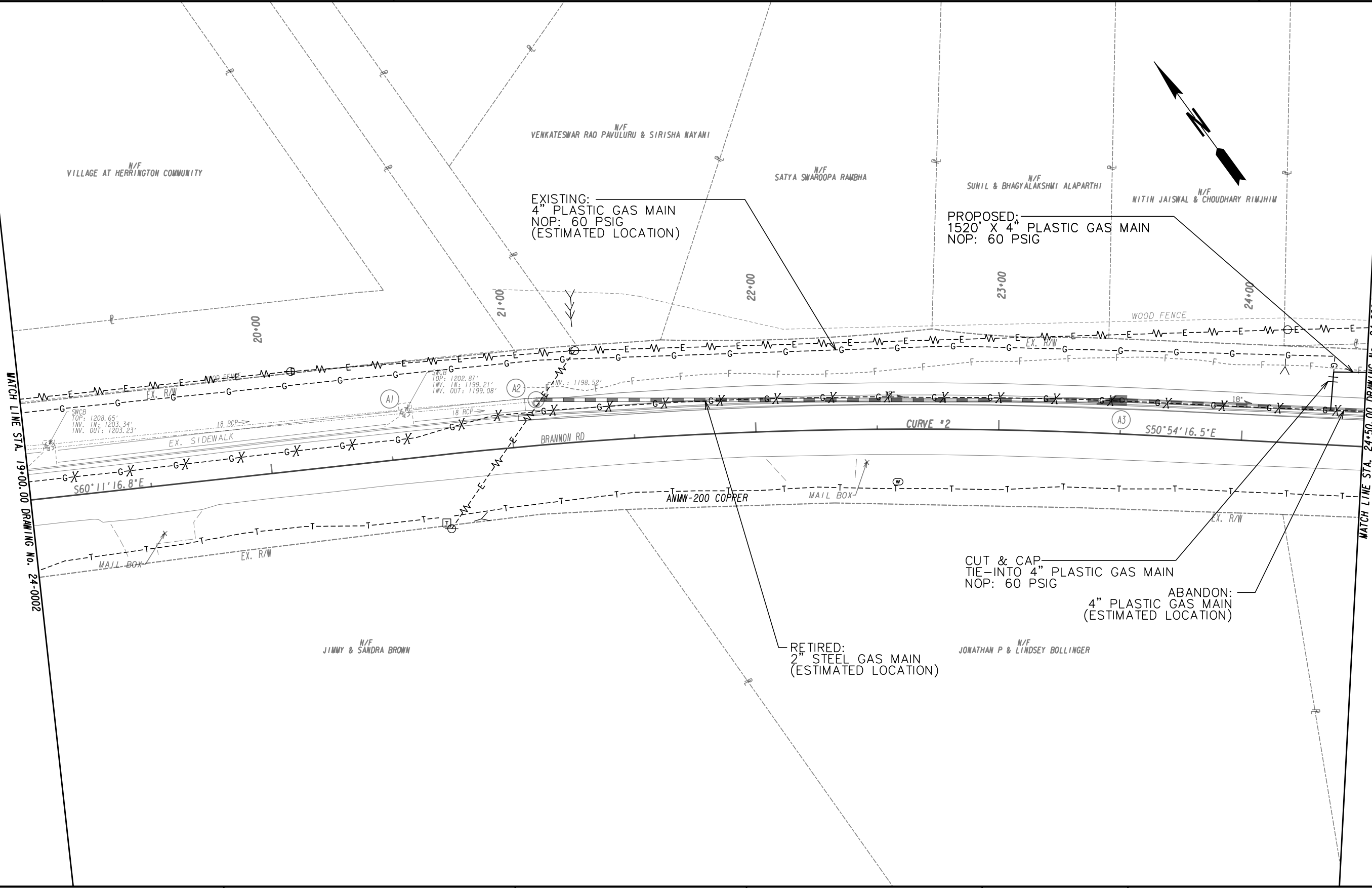


REVISION DATES	

UTILITY PLANS

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	-----g-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----h-----
EASEMENT FOR CONSTR OF SLOPES	-----i-----
EASEMENT FOR CONSTR OF DRIVES	-----j-----

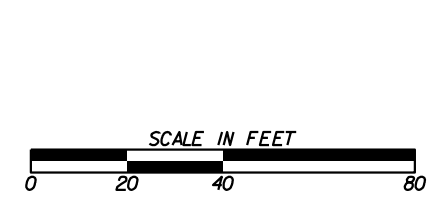
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REQ'D LIMIT OF ACCESS	-----m-----
REQ'D LIMIT OF ACCESS & R/W	-----n-----
ORANGE BARRIER FENCE	-----o-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----p-----

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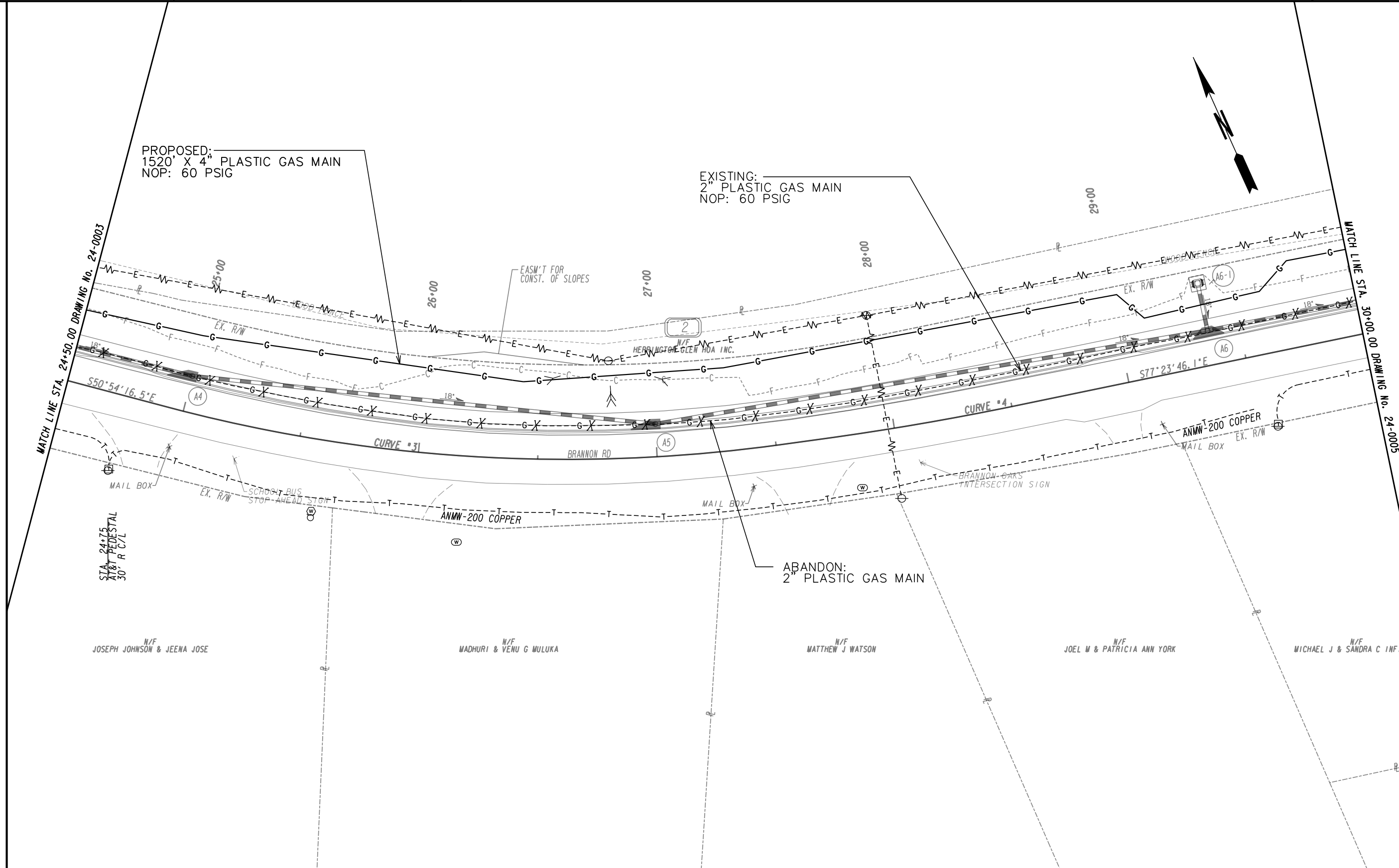
2500 Nelson Miller Parkway
Louisville, KY 40223
502-245-3883

5160 Acworth Landing Drive
Acworth, GA 30092
770-421-8422



REVISION DATES	

UTILITY PLANS		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	-----g-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----h-----
EASEMENT FOR CONSTR OF SLOPES	-----i-----
EASEMENT FOR CONSTR OF DRIVES	-----j-----

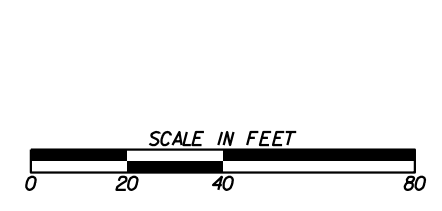
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END LIMIT OF ACCESS.....ELA	-----l-----
REQ'D LIMIT OF ACCESS	-----m-----
REQ'D LIMIT OF ACCESS & R/W	-----n-----
ORANGE BARRIER FENCE	-----o-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----p-----

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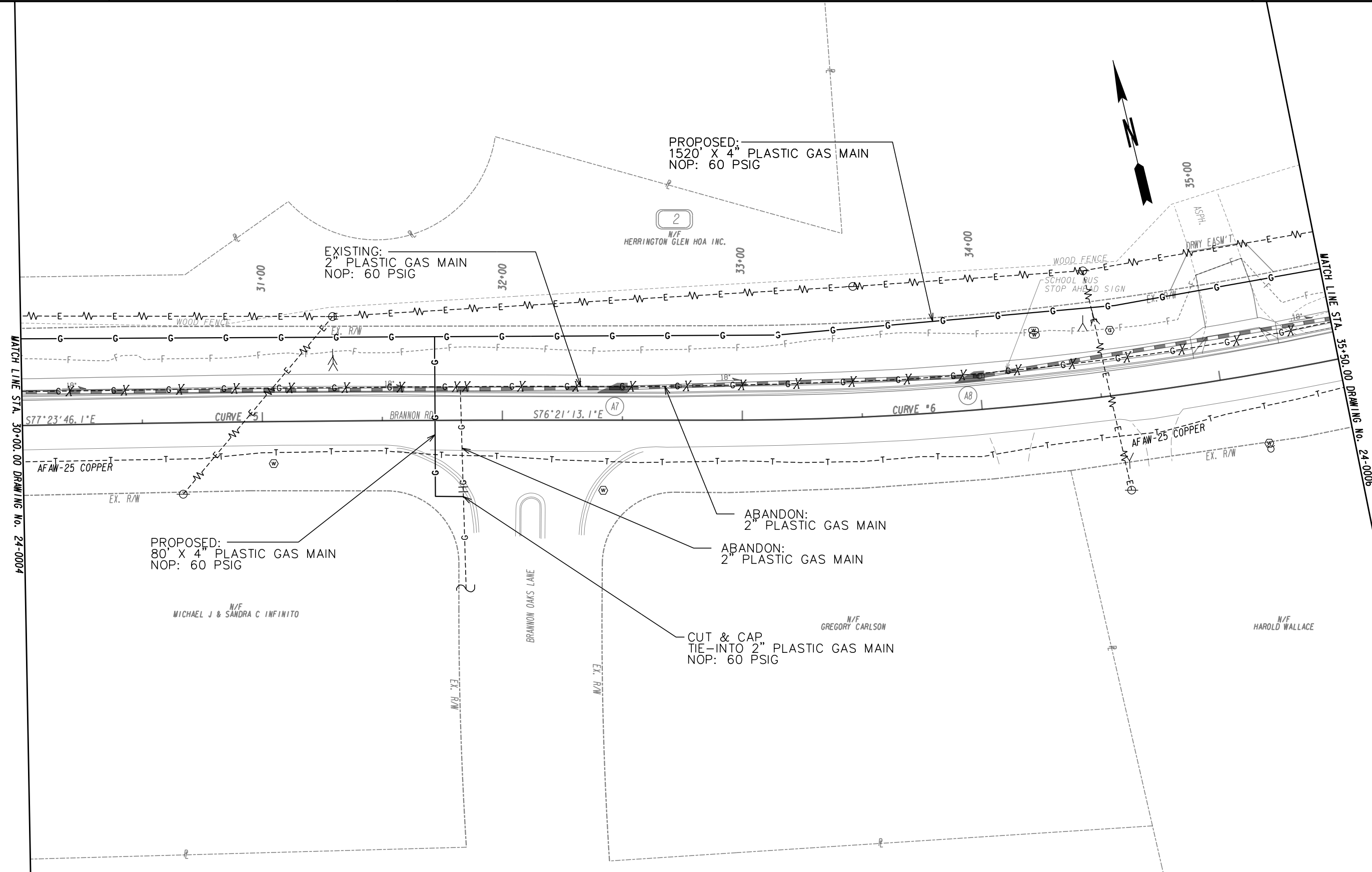
DESIGN CONSULTANT

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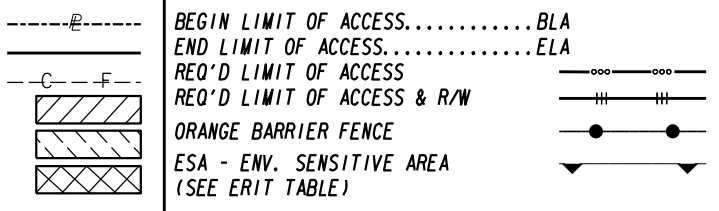


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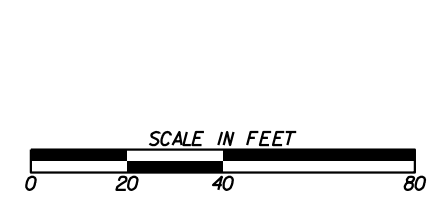
UTILITY PLANS		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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

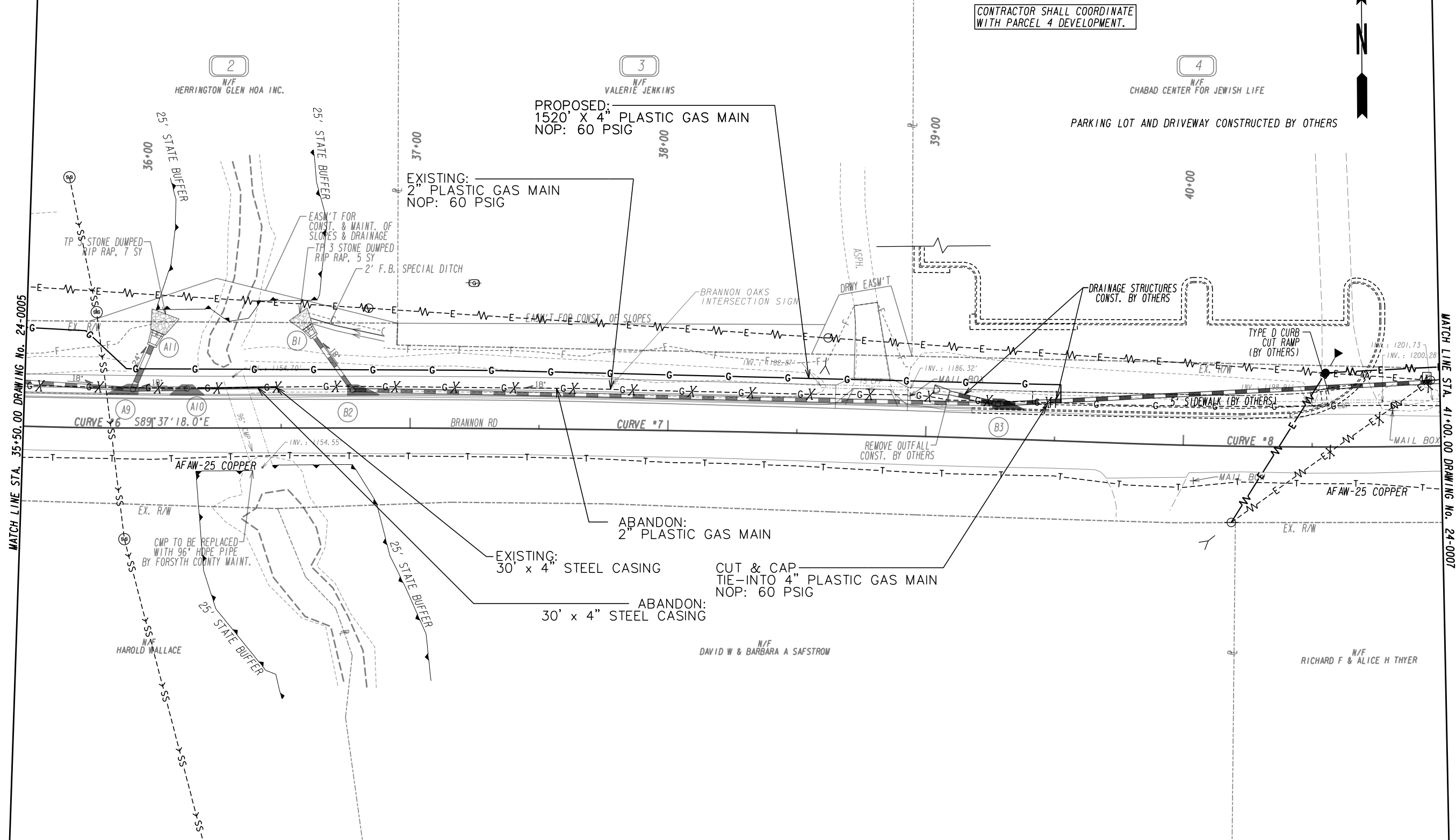


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REVISION DATES	

UTILITY PLANS			
BRANNON ROAD			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			24-0005



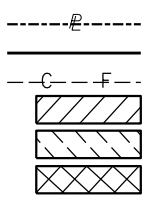
CONTRACTOR SHALL COORDINATE WITH PARCEL 4 DEVELOPMENT.



MATCH LINE STA. 35+50.00 DRAWING No. 24-0005

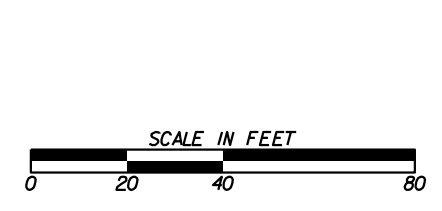
MATCH LINE STA. 41+00.00 DRAWING No. 24-0007

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
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)

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REVISION DATES	

UTILITY PLANS		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0006
CORRECTED:	DATE:	
VERIFIED:	DATE:	

CONTRACTOR SHALL COORDINATE
WITH PARCEL 4 DEVELOPMENT.

4
N/F
CHABAD CENTER FOR JEWISH LIFE

PARKING LOT AND DRIVEWAY CONSTRUCTED BY OTHERS

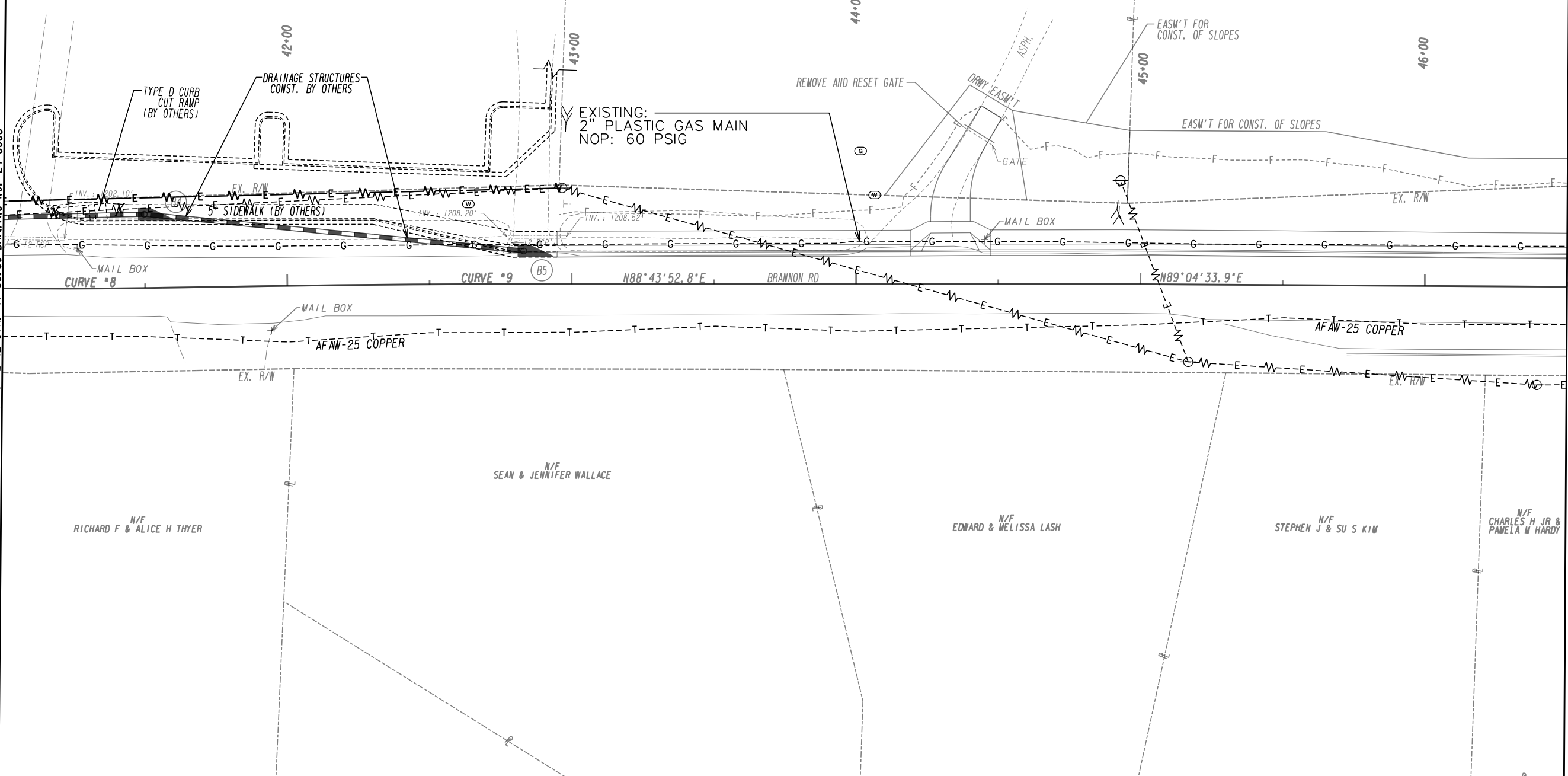
5
N/F
PXBE LLC

6
N/F
DANIEL B & CAROL W THALIMER



MATCH LINE STA. 41+00.00 DRAWING No. 24-0006

MATCH LINE STA. 46+50.00 DRAWING No. 24-0008



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	---/---

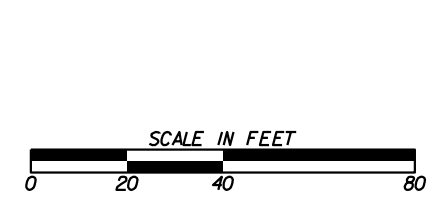
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REQ'D LIMIT OF ACCESS	---o---o---
REQ'D LIMIT OF ACCESS & R/W	---o---o---
ORANGE BARRIER FENCE	---o---o---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---o---o---

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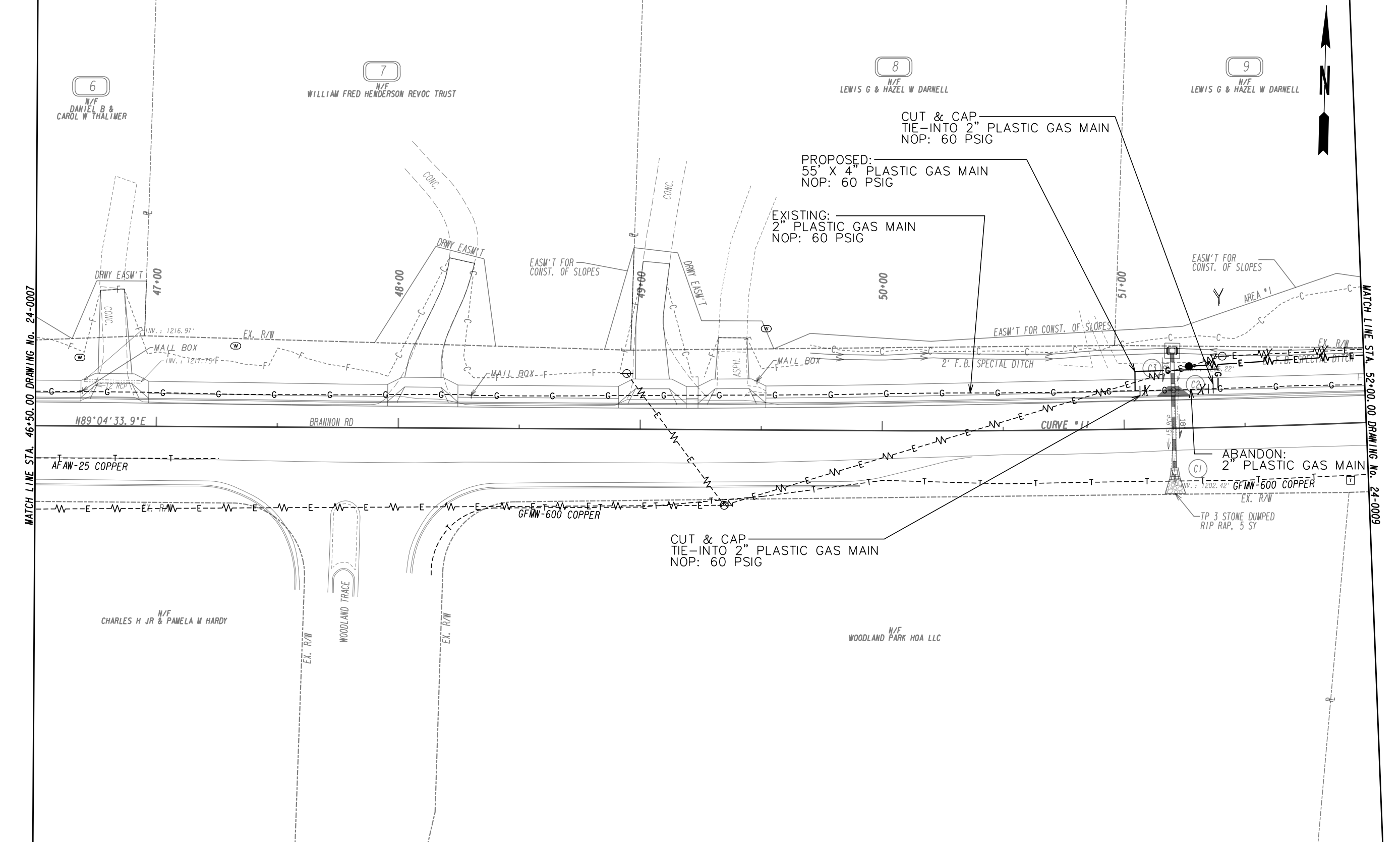


REVISION DATES	

UTILITY PLANS

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0007
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 46+50.00 DRAWING No. 24-0007

MATCH LINE STA. 52+00.00 DRAWING No. 24-0009

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	---/---/---

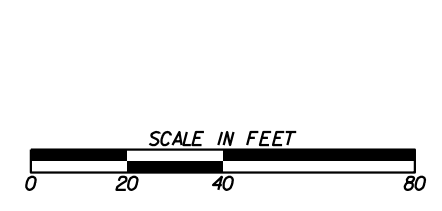
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END LIMIT OF ACCESS.....ELA	---o---o---
REQ'D LIMIT OF ACCESS	---o---o---
REQ'D LIMIT OF ACCESS & R/W	---o---o---
ORANGE BARRIER FENCE	---o---o---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---o---o---

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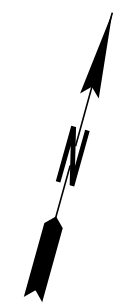
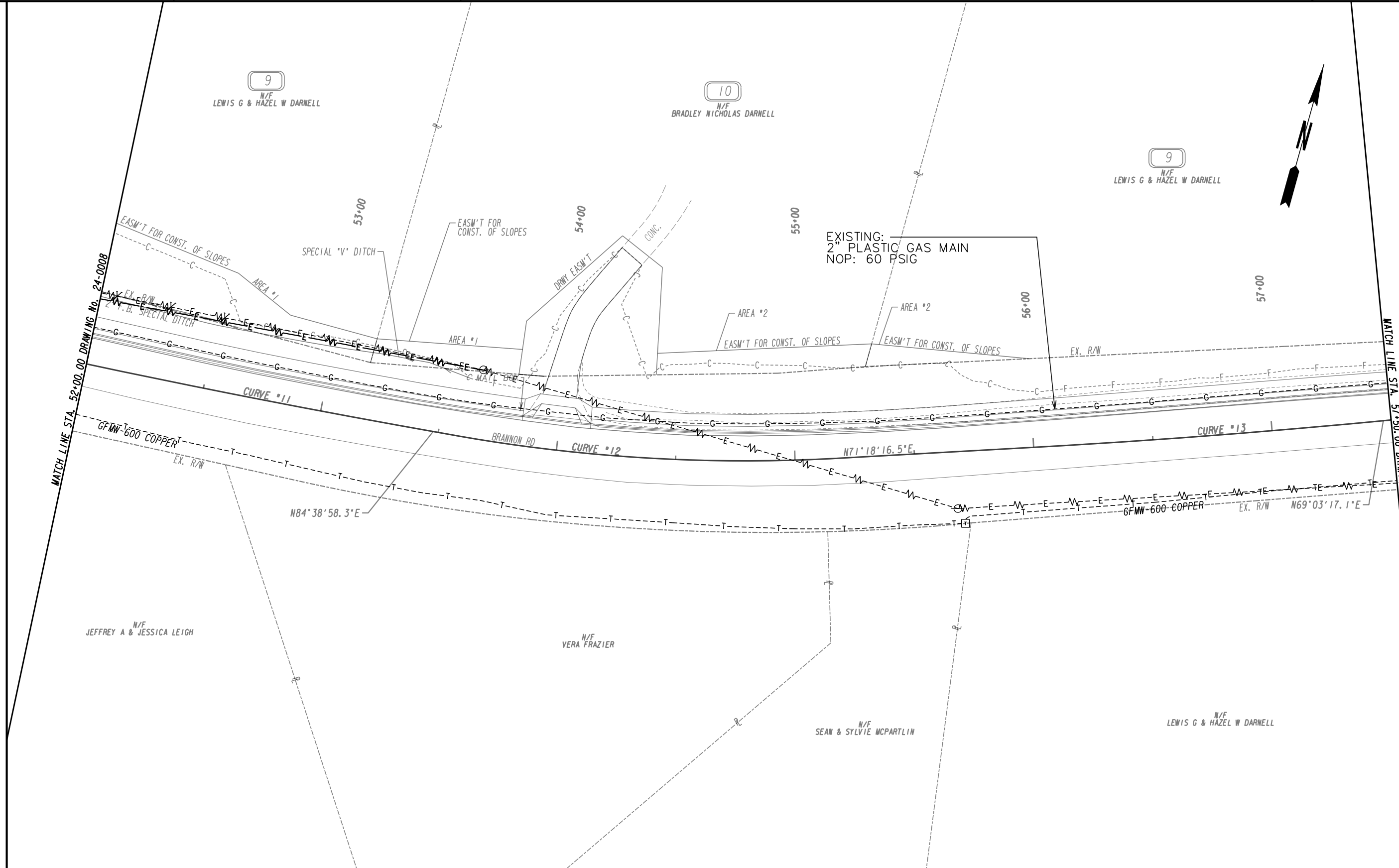
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REVISION DATES	

UTILITY PLANS		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No. 24-0008
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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

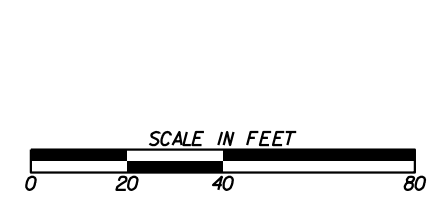
BEGIN LIMIT OF ACCESS.....BLA	---o---o---
END LIMIT OF ACCESS.....ELA	---o---o---
REQ'D LIMIT OF ACCESS	---o---o---
REQ'D LIMIT OF ACCESS & R/W	---o---o---
ORANGE BARRIER FENCE	---o---o---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---o---o---

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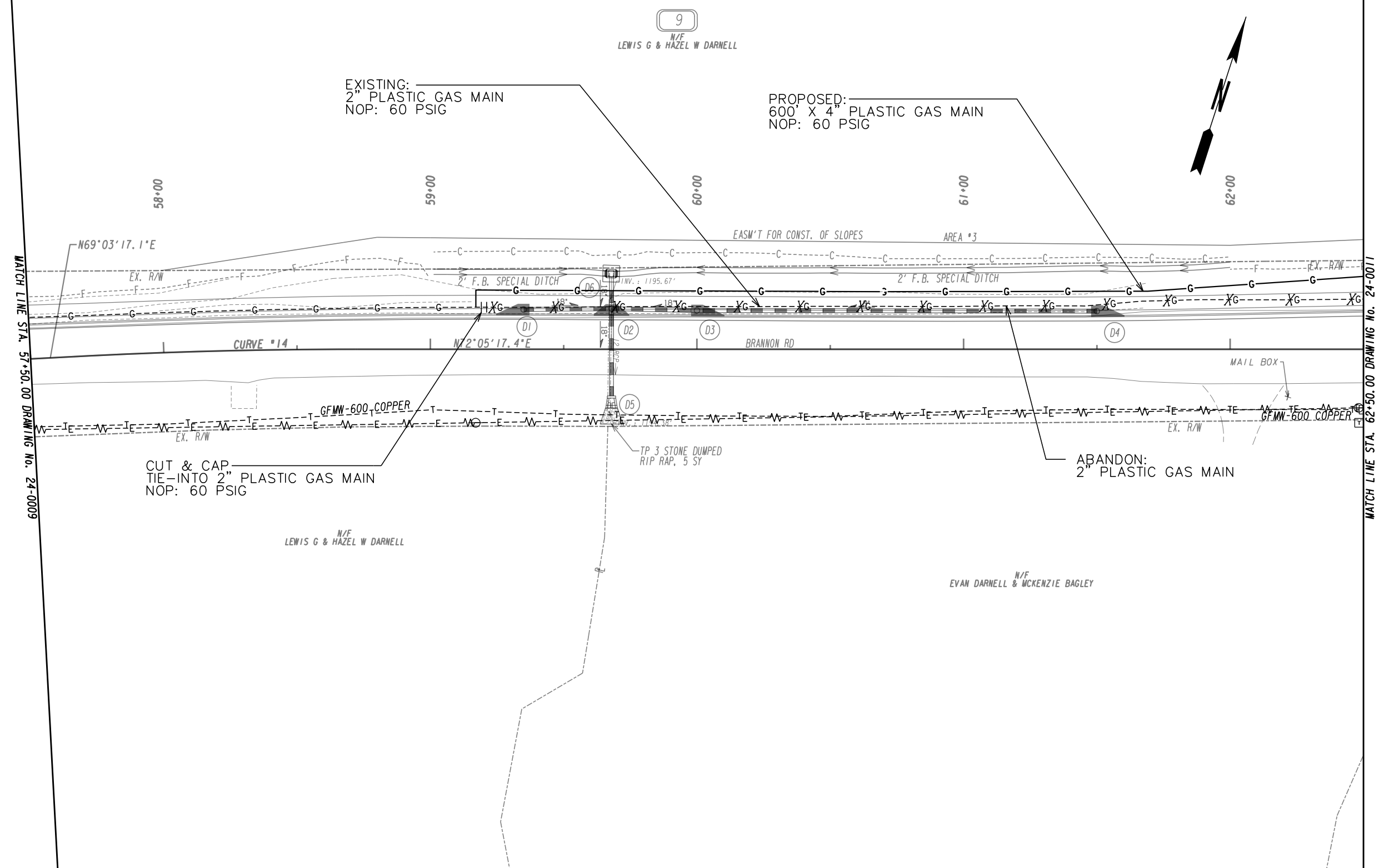
DESIGN CONSULTANT

PROFESSIONAL ENGINEERING

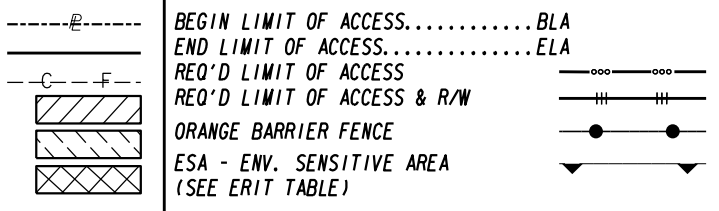


REVISION DATES	

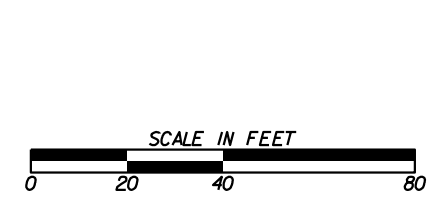
UTILITY PLANS			
BRANNON ROAD			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	24-0009	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



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

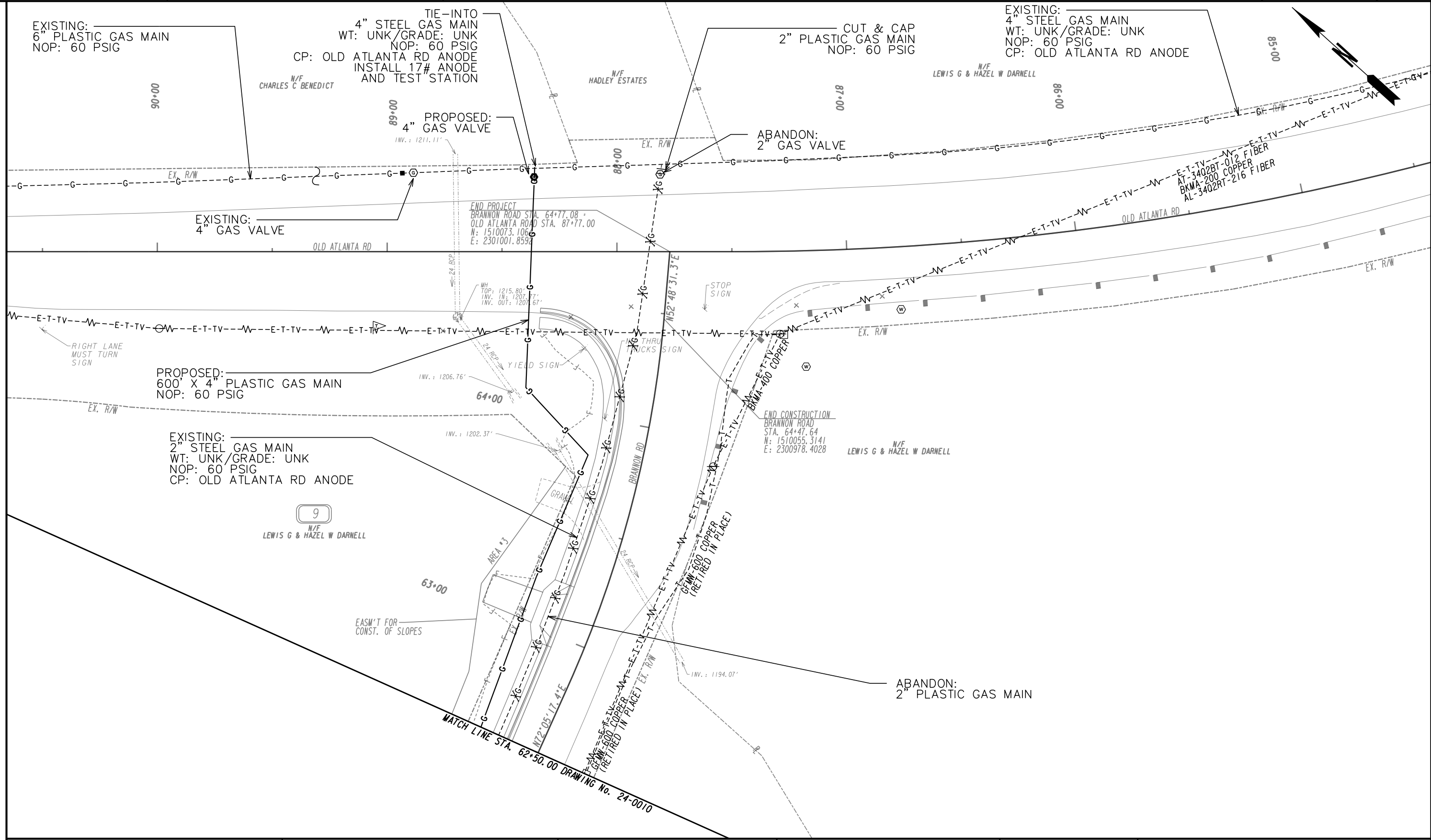


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 American Engineers, Inc.
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REVISION DATES	

UTILITY PLANS		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0010
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PROPERTY AND EXISTING R/W LINE	-----E-----
REQUIRED R/W LINE	-----F-----
CONSTRUCTION LIMITS	-----G-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Diagonal Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Cross-hatched Box]

BEGIN LIMIT OF ACCESS.....BLA	-----
END LIMIT OF ACCESS.....ELA	-----
REQ'D LIMIT OF ACCESS	-----
REQ'D LIMIT OF ACCESS & R/W	-----
ORANGE BARRIER FENCE	-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----

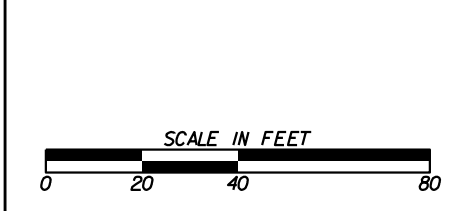
PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

2500 Nelson Miller Parkway
Louisville, KY 40223
502-245-385

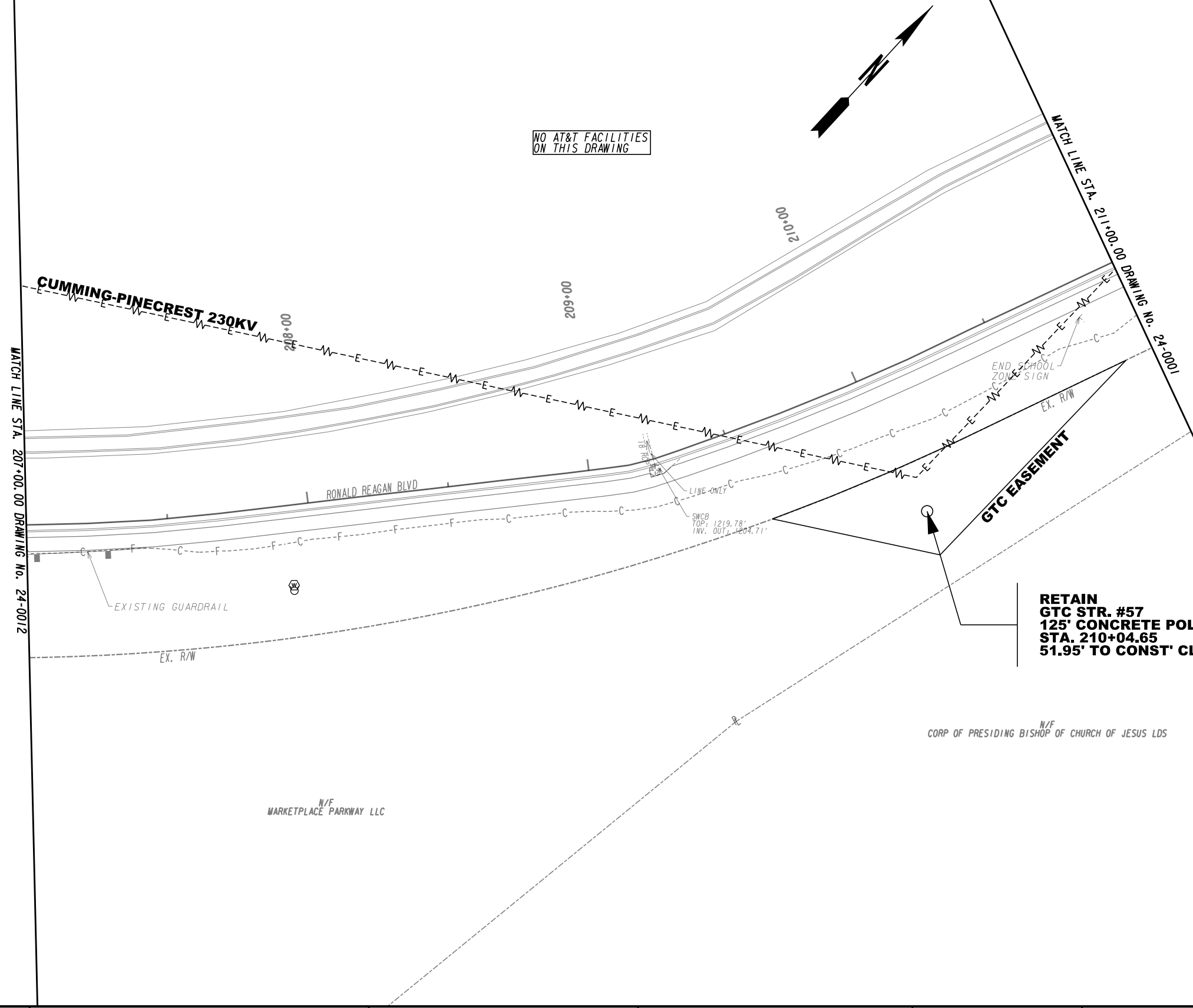
65 Aberdeen Drive
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606-651-7220

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Acworth, GA 30093
770-421-8422

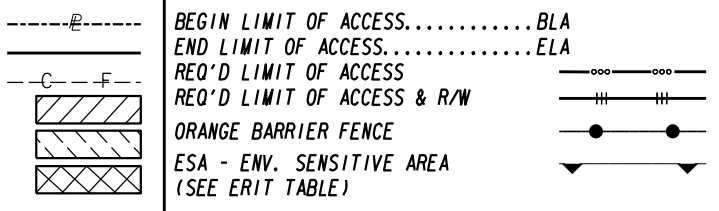


REVISION DATES	

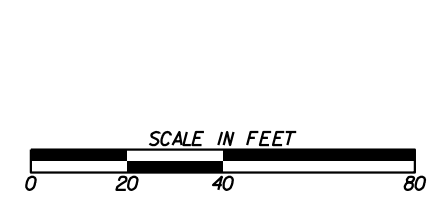
UTILITY PLANS		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0011
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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

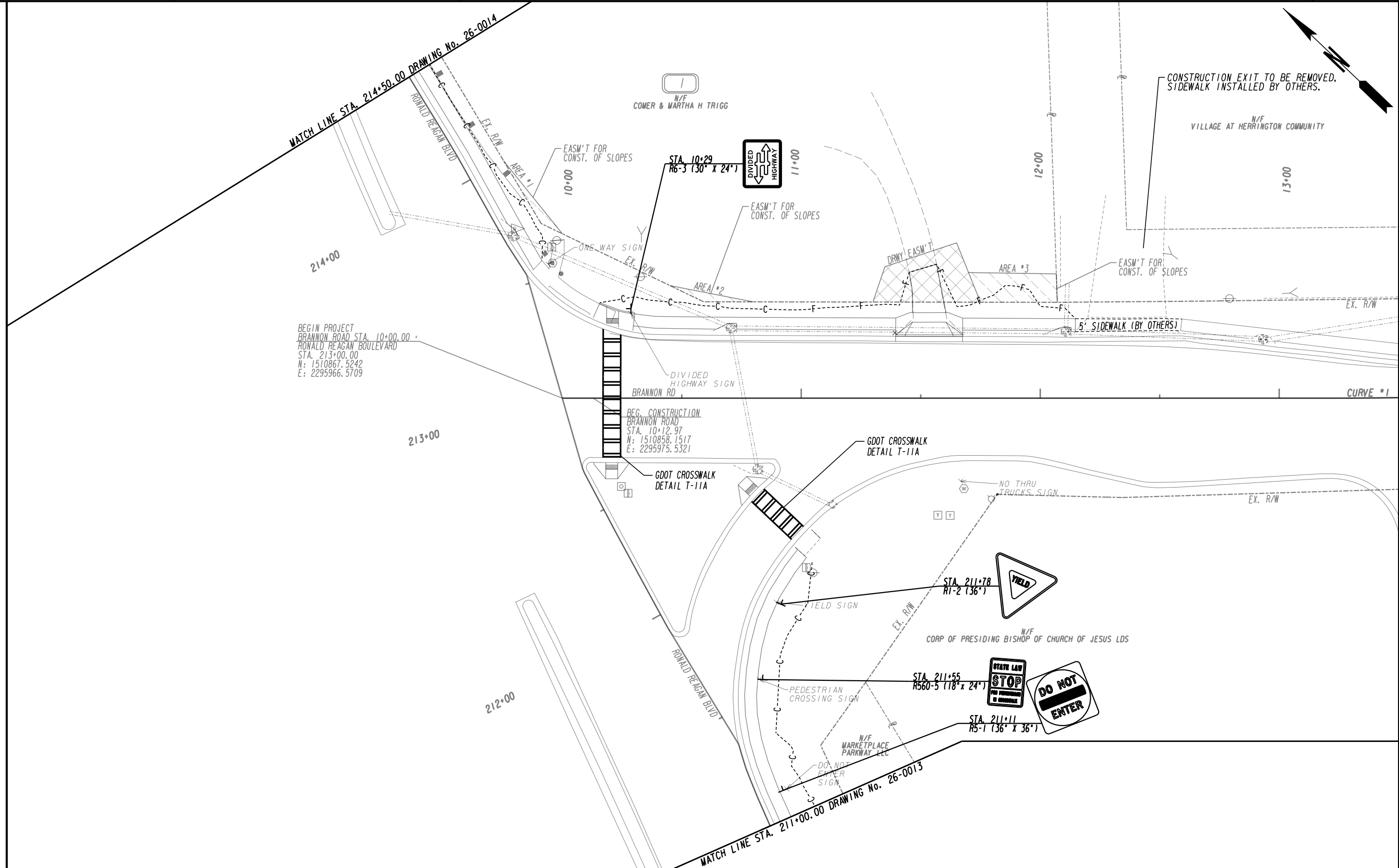


PLANS PREPARED AND SUBMITTED BY:
AEI
 AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT



REVISION DATES	

UTILITY PLANS			
RONALD REAGAN BOULEVARD			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	24-0013	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



BEGIN PROJECT
BRANNON ROAD STA. 10+00.00 =
RONALD REAGAN BOULEVARD
STA. 213+00.00
N: 1510867.5242
E: 2295966.5709

BEG. CONSTRUCTION
BRANNON ROAD
STA. 10+12.97
N: 1510858.1517
E: 2295975.5321

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	-----C-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----F-----
EASEMENT FOR CONSTR OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Cross-hatched Box]

BEGIN LIMIT OF ACCESS.....BLA	-----o-----
END LIMIT OF ACCESS.....ELA	-----o-----
REQ'D LIMIT OF ACCESS	-----o-----
REQ'D LIMIT OF ACCESS & R/W	-----o-----
ORANGE BARRIER FENCE	-----o-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----o-----

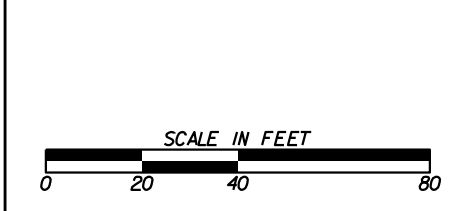
PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.

2500 Nelson Miller Parkway
Louisville, KY 40223
502-245-3853

5160 Acworth Landing Drive
Acworth, GA 30006
770-421-8422

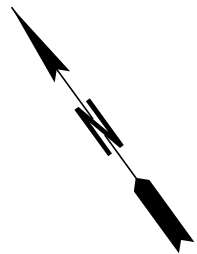
DESIGN CONSULTANT PROFESSIONAL ENGINEERING



REVISION DATES	

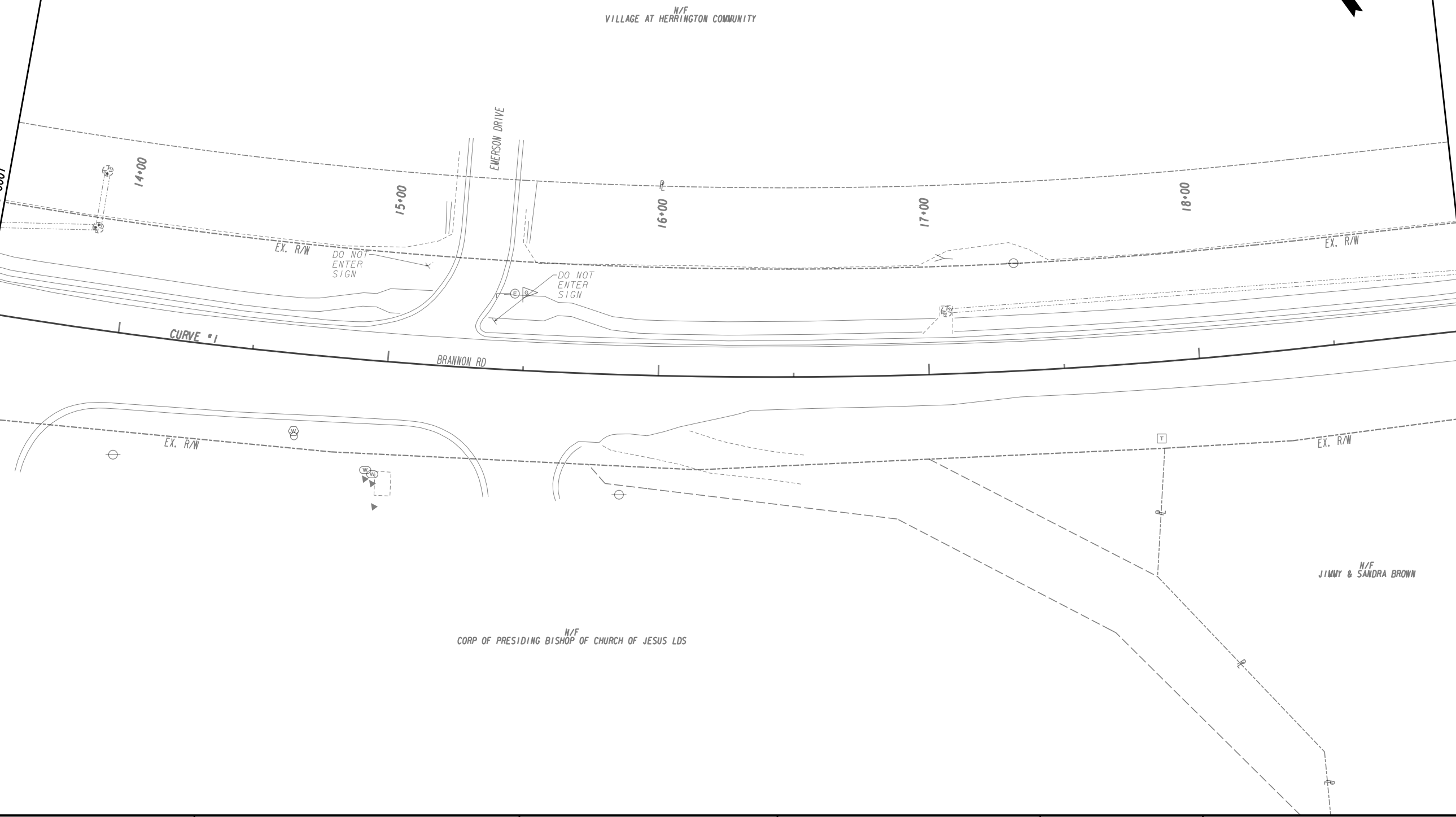
SIGNING AND MARKING PLANS			
BRANNON ROAD			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			26-0001

MATCH LINE STA. 13+50.00 DRAWING No. 26-0002

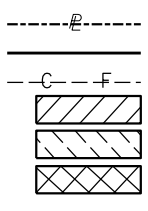


MATCH LINE STA. 13+50.00 DRAWING No. 26-0001

MATCH LINE STA. 19+00.00 DRAWING No. 26-0003

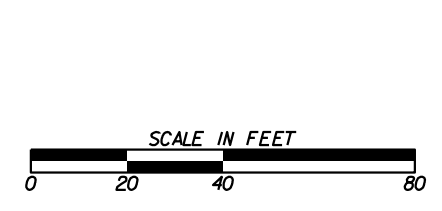


PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

PLANS PREPARED AND SUBMITTED BY:
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REVISION DATES	

SIGNING AND MARKING PLANS			
BRANNON ROAD			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	26-0002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

MATCH LINE STA. 19+00.00 DRAWING No. 26-0002

MATCH LINE STA. 24+50.00 DRAWING No. 26-0004

N/F
VILLAGE AT HERRINGTON COMMUNITY

N/F
VENKATESWAR RAO PAVULURU & SIRISHA NAYANI

N/F
SATYA SWAROOPA RAMBHA

N/F
SUNIL & BHAGYALAKSHMI ALAPARTHI

N/F
NITIN JAISWAL & CHOUDHARY RIMJHIM

20+00

21+00

22+00

23+00

24+00

EX. R/W

EX. R/W

EX. R/W

BRANNON RD

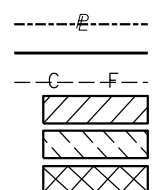
CURVE *2

5' SOLID WHITE

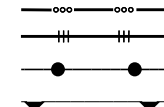
N/F
JIMMY & SANDRA BROWN

N/F
JONATHAN P & LINDSEY BOLLINGER

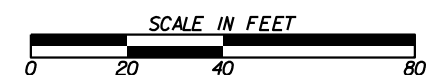
PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)



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DESIGN CONSULTANT
PROFESSIONAL ENGINEERING

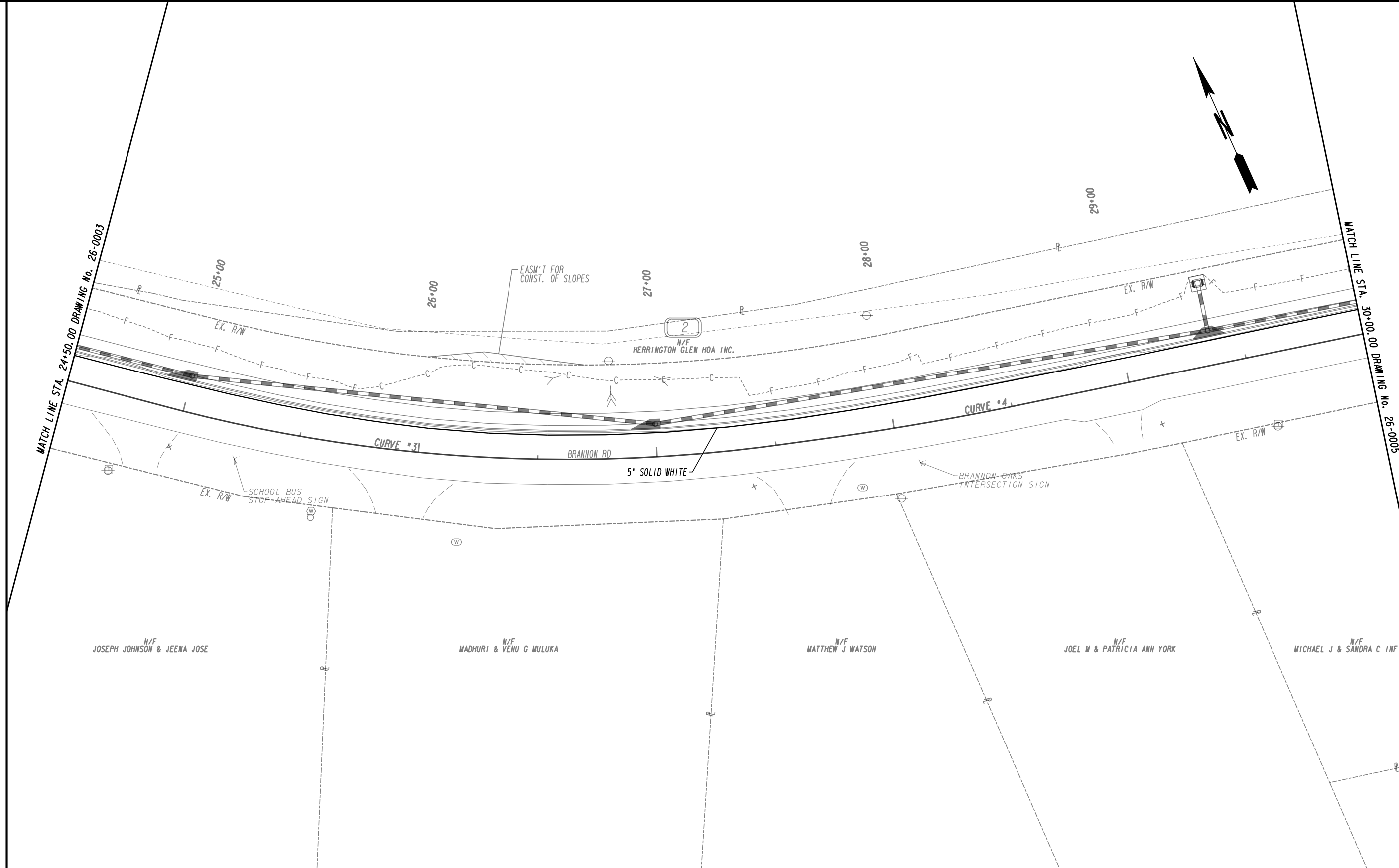


REVISION DATES

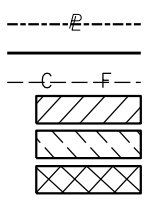
NO.	DATE	DESCRIPTION

SIGNING AND MARKING PLANS
BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
		26-0003
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

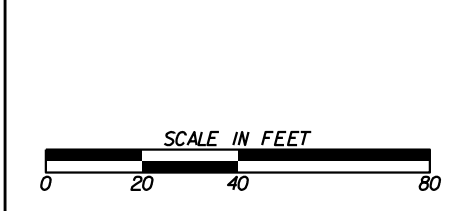


PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

PLANS PREPARED AND SUBMITTED BY:
AEI
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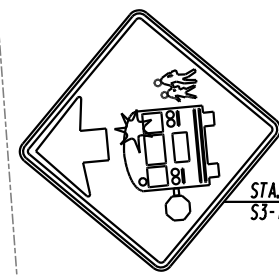
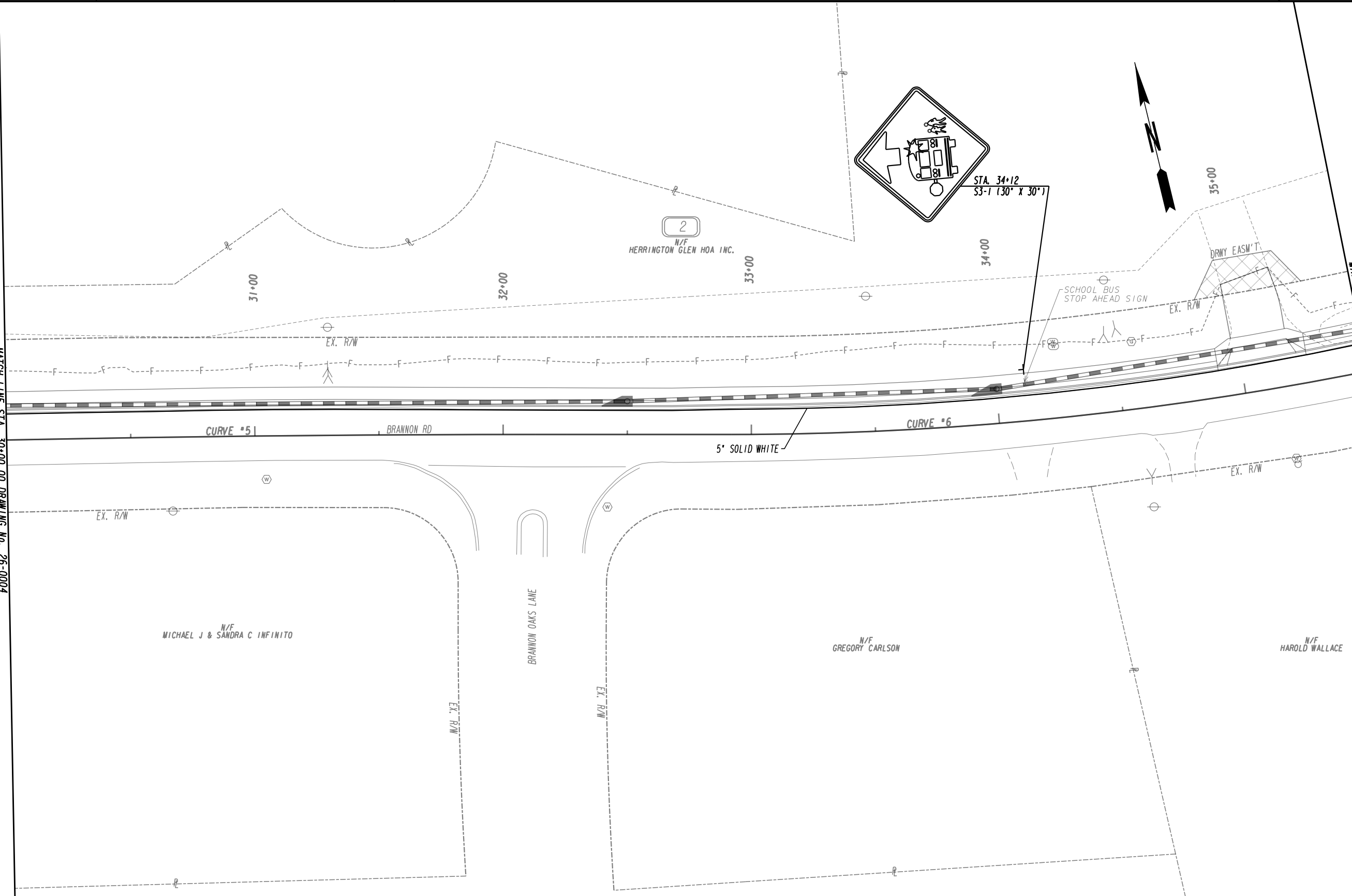


REVISION DATES	

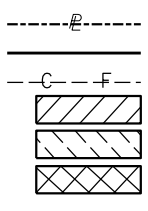
SIGNING AND MARKING PLANS			
BRANNON ROAD			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	26-0004	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

MATCH LINE STA. 30+00.00 DRAWING No. 26-0004

MATCH LINE STA. 35+50.00 DRAWING No. 26-0006

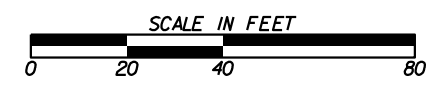


PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



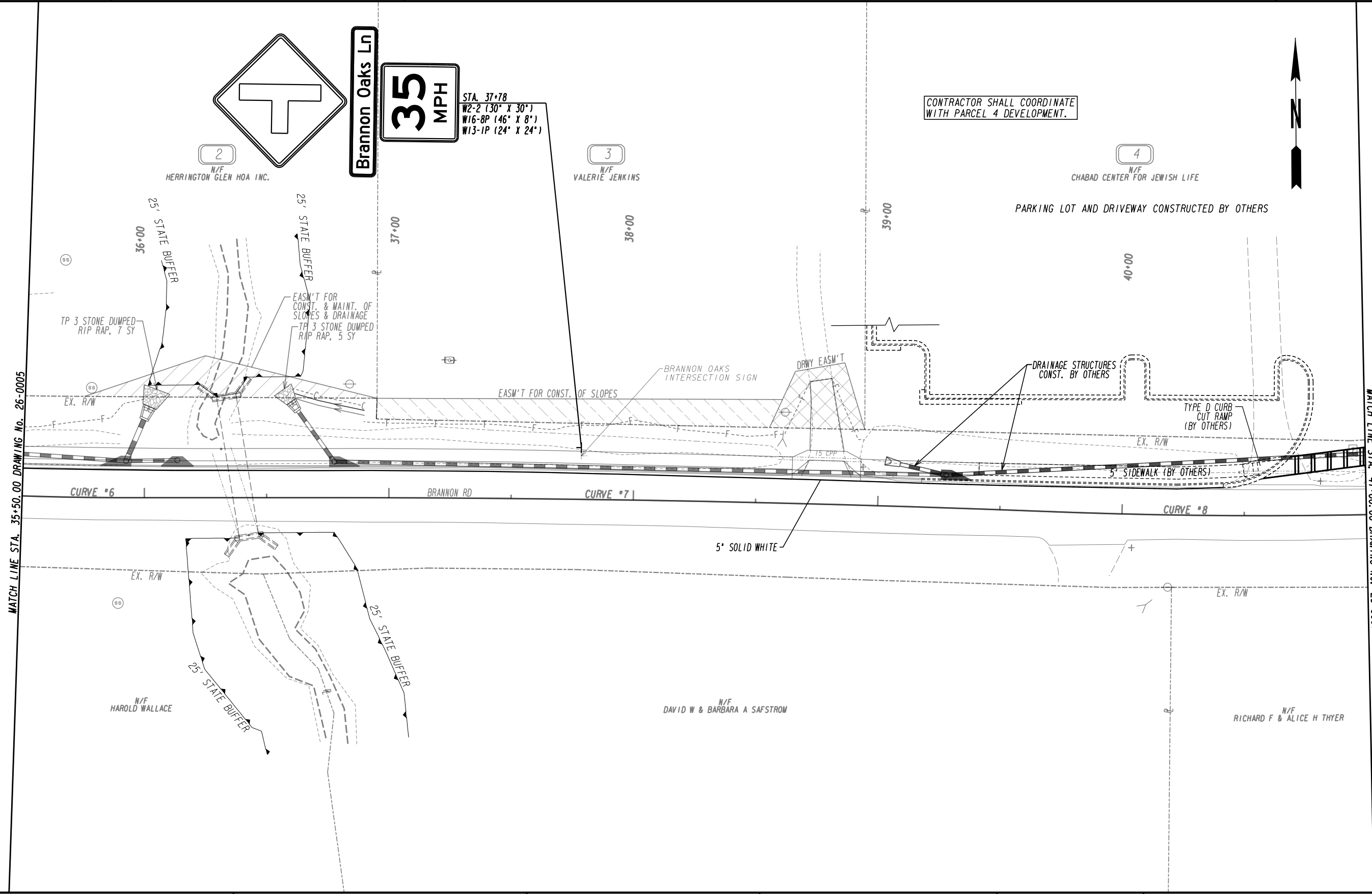
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

PLANS PREPARED AND SUBMITTED BY:
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REVISION DATES	

SIGNING AND MARKING PLANS			
BRANNON ROAD			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	26-0005	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



MATCH LINE STA. 35+50.00 DRAWING No. 26-0005

MATCH LINE STA. 41+00.00 DRAWING No. 26-0007

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

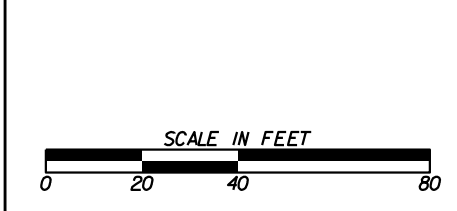
BEGIN LIMIT OF ACCESS.....BLA	-----o-----
END LIMIT OF ACCESS.....ELA	-----o-----
REQ'D LIMIT OF ACCESS	-----h-----
REQ'D LIMIT OF ACCESS & R/W	-----h-----
ORANGE BARRIER FENCE	-----b-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----v-----

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PROFESSIONAL ENGINEERING



REVISION DATES	

SIGNING AND MARKING PLANS

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-0006
CORRECTED:	DATE:	
VERIFIED:	DATE:	

CONTRACTOR SHALL COORDINATE
WITH PARCEL 4 DEVELOPMENT.

4

N/F
CHABAD CENTER FOR JEWISH LIFE

PARKING LOT AND DRIVEWAY CONSTRUCTED BY OTHERS

5

N/F
PXBE LLC

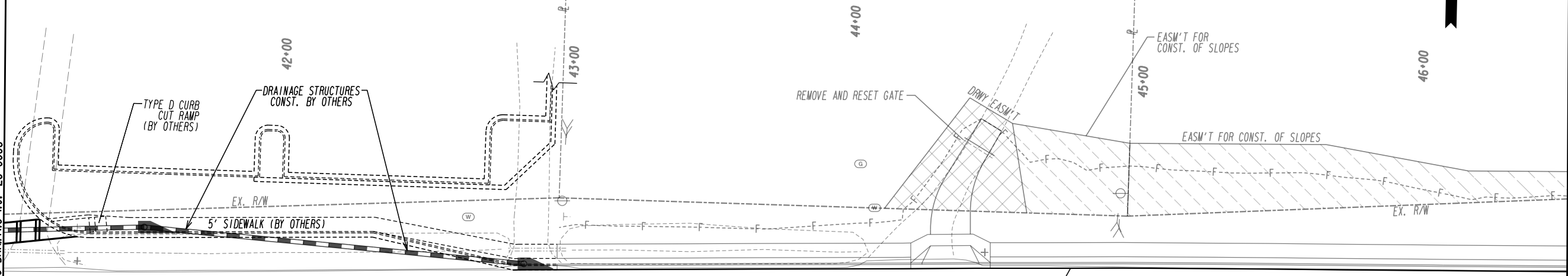
6

N/F
DANIEL B & CAROL W THALIMER



MATCH LINE STA. 41+00.00 DRAWING No. 26-0006

MATCH LINE STA. 46+50.00 DRAWING No. 26-0008



CURVE #8

CURVE #9

BRANNON RD

5' SOLID WHITE

N/F
RICHARD F & ALICE H THYER

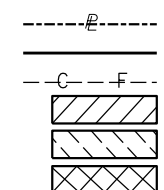
N/F
SEAN & JENNIFER WALLACE

N/F
EDWARD & MELISSA LASH

N/F
STEPHEN J & SU S KIM

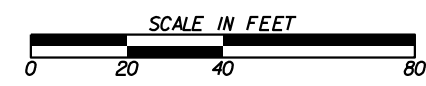
N/F
CHARLES H JR & PAMELA W HARDY

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
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

PLANS PREPARED AND SUBMITTED BY:
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REVISION DATES

NO.	DATE	DESCRIPTION

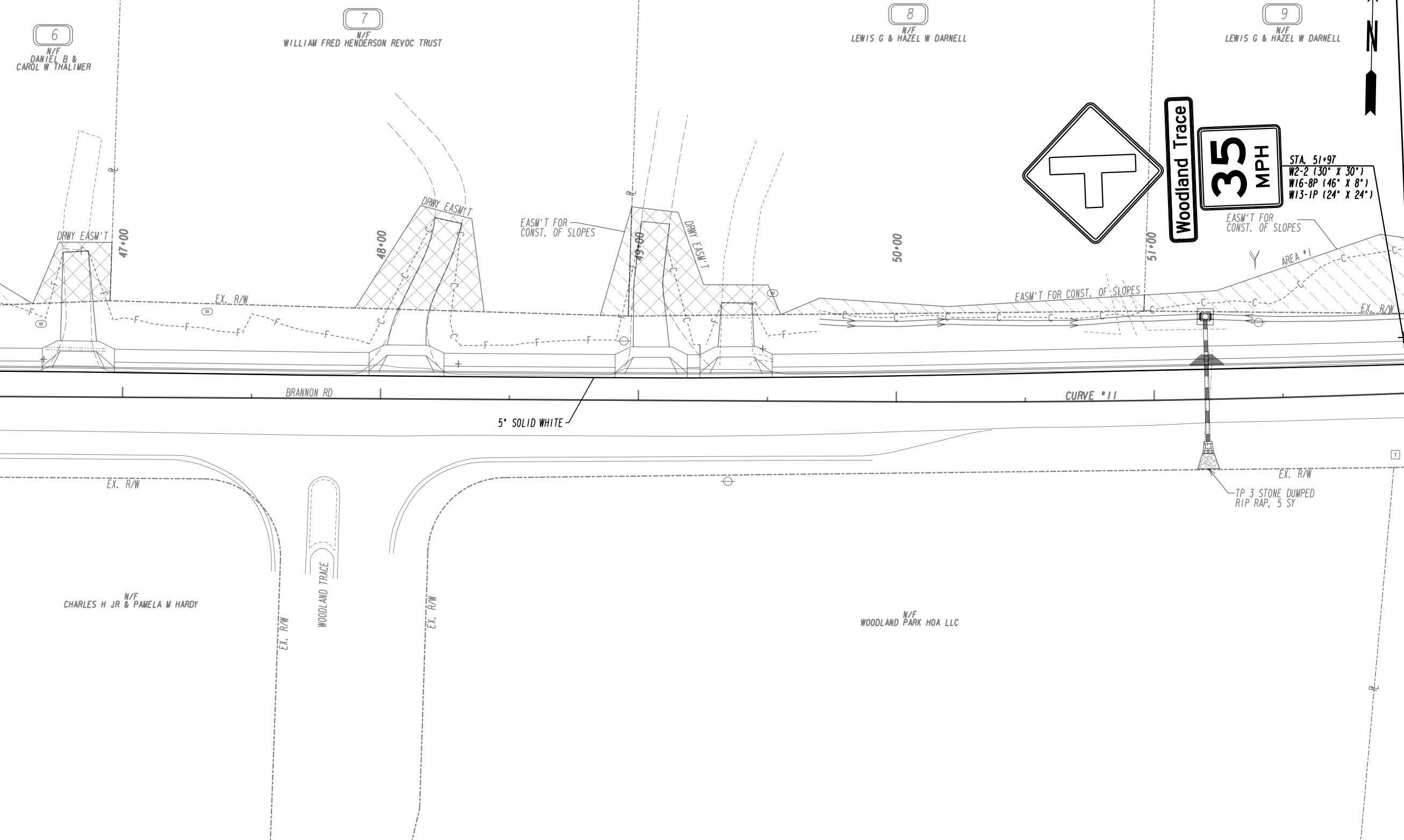
SIGNING AND MARKING PLANS

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
		26-0007
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

MATCH LINE STA. 46+50.00 DRAWING No. 26-0007

MATCH LINE STA. 52+00.00 DRAWING No. 26-0009



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

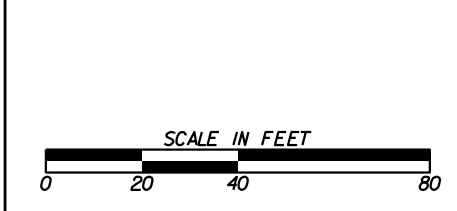
BEGIN LIMIT OF ACCESS.....BLA	-----o-----
END LIMIT OF ACCESS.....ELA	-----o-----
REQ'D LIMIT OF ACCESS	-----h-----
REQ'D LIMIT OF ACCESS & R/W	-----h-----
ORANGE BARRIER FENCE	-----b-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----v-----

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
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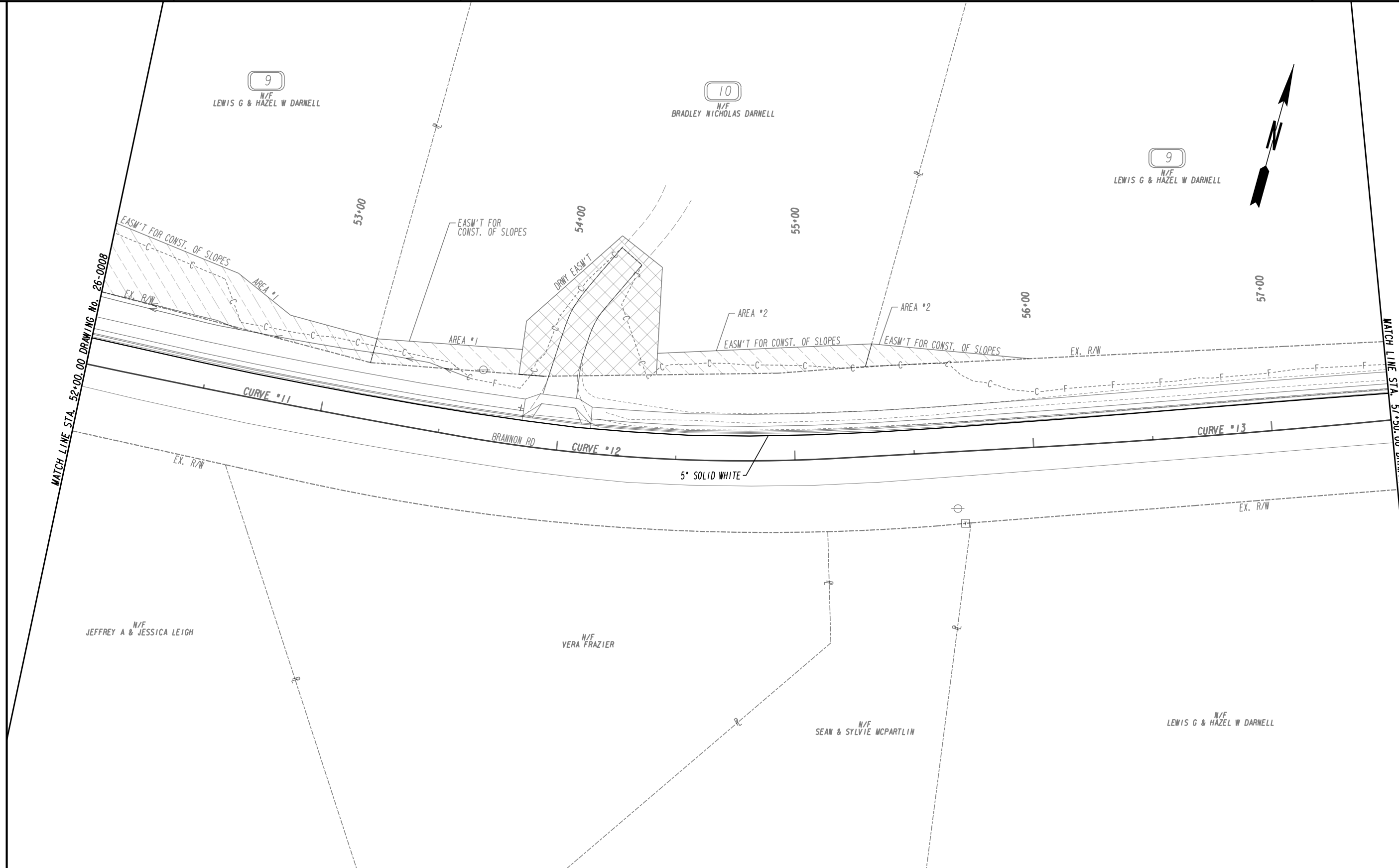
2500 Nelson Miller Parkway
Louisville, KY 40223
502.245.3853

5160 Acworth Landing Drive
Acworth, GA 30092
770.421.8422



REVISION DATES	

SIGNING AND MARKING PLANS			
BRANNON ROAD			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			26-0008



PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	-----C-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----F-----
EASEMENT FOR CONSTR OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Cross-hatched Box]

BEGIN LIMIT OF ACCESS.....BLA	---o---o---
END LIMIT OF ACCESS.....ELA	--- --- ---
REQ'D LIMIT OF ACCESS	---●---●---
REQ'D LIMIT OF ACCESS & R/W	---▲---▲---
ORANGE BARRIER FENCE	---x---x---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---/---/---

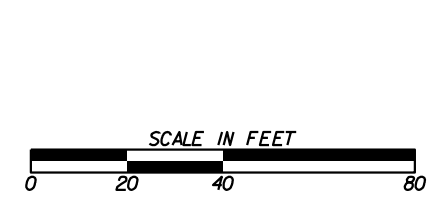
PLANS PREPARED AND SUBMITTED BY:

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AMERICAN ENGINEERS, INC.

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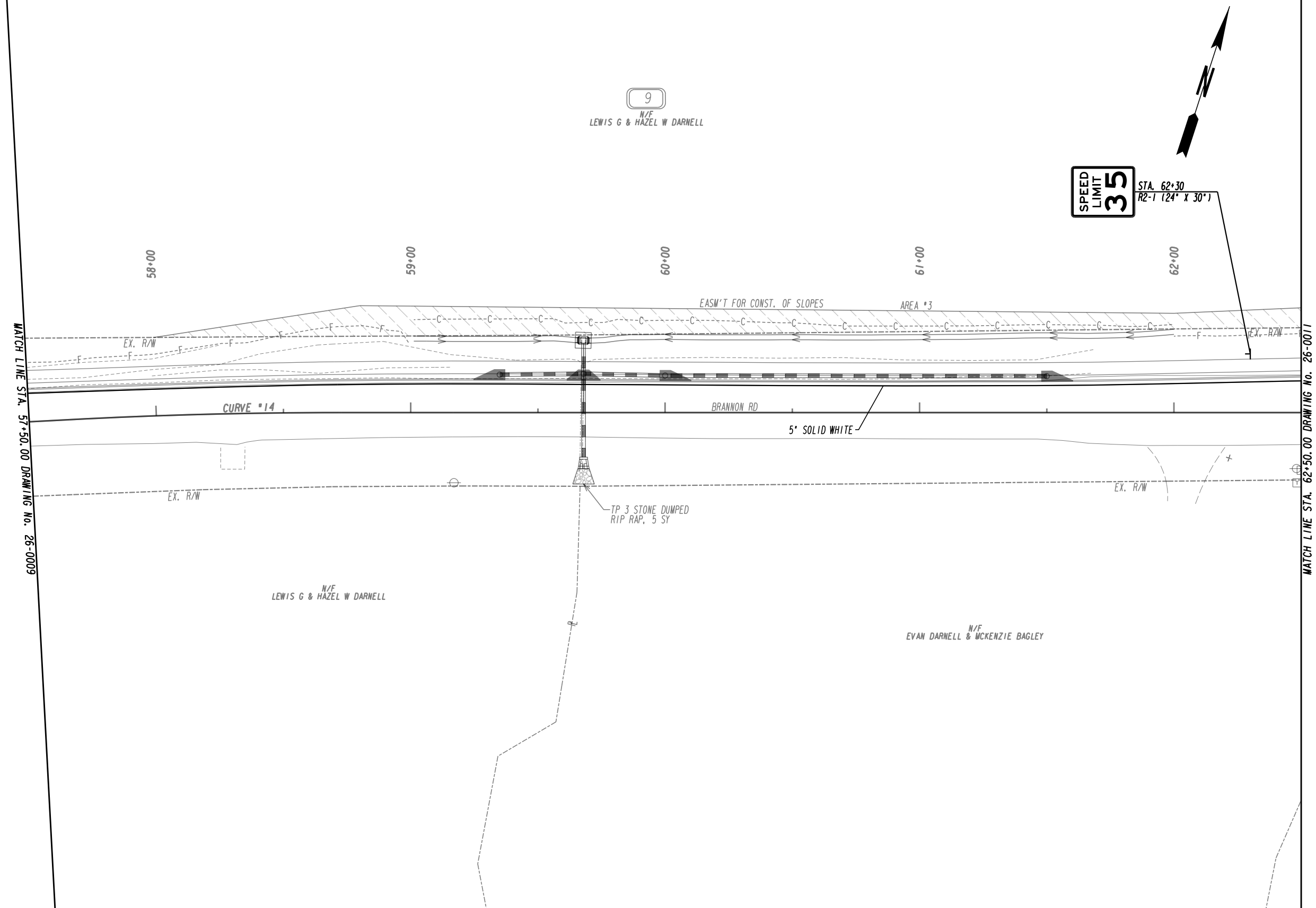
PROFESSIONAL ENGINEERING

Offices:
 65 Aberdeen Drive, Glasgow, KY 42044
 2500 Nelson Miller Parkway, Louisville, KY 40223
 1502 245-3853
 5160 Acworth Landing Drive, Acworth, GA 30092
 (770) 421-8422

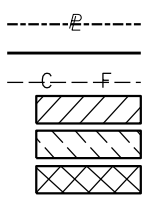


REVISION DATES	

SIGNING AND MARKING PLANS			
BRANNON ROAD			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			26-0009



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



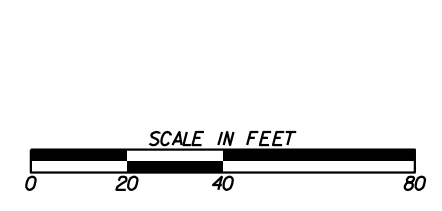
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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Branch Office:
 5160 Acworth Landing Drive
 Acworth, GA 30092
 (770) 421-8422

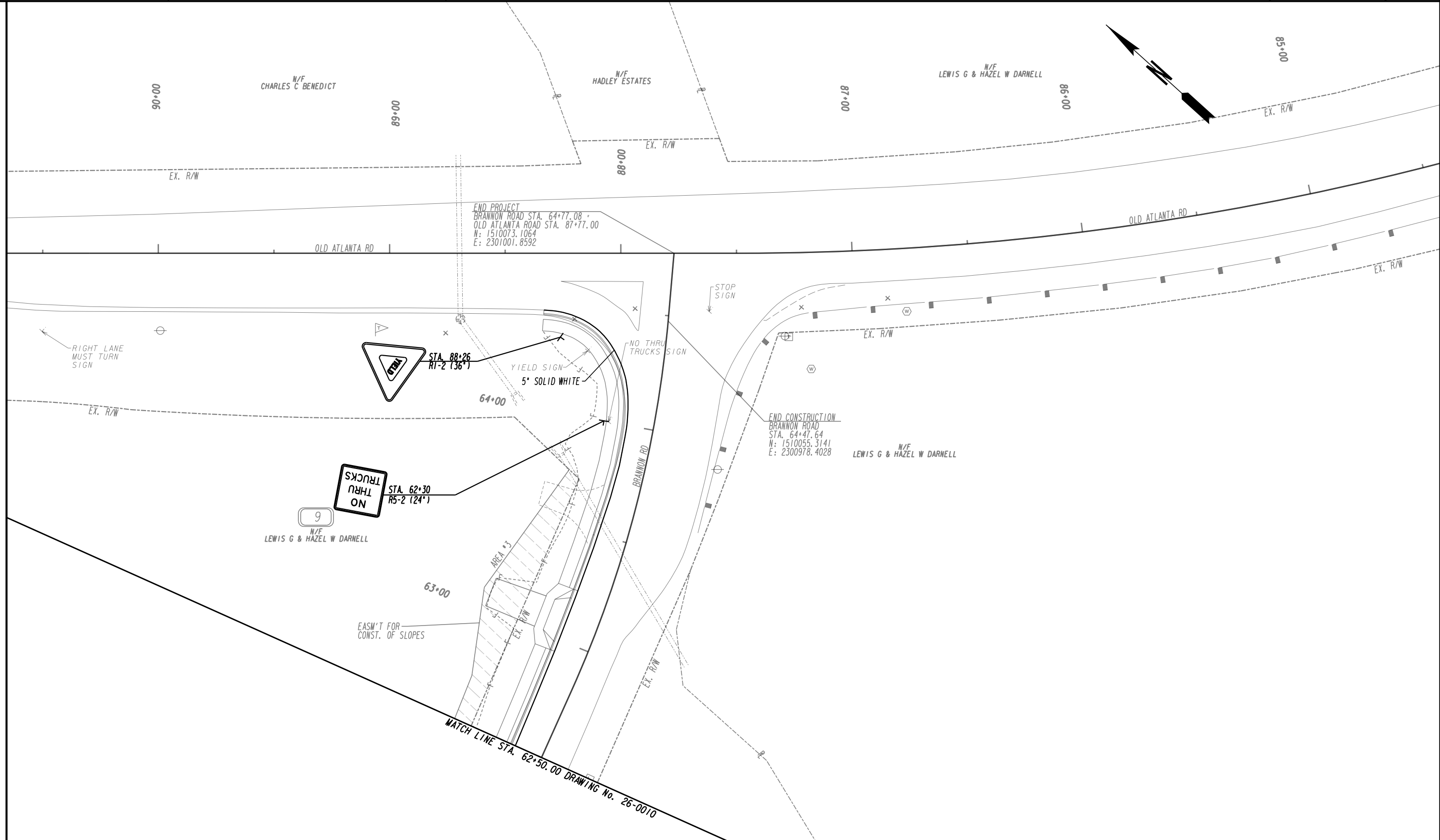
2500 Nelson Miller Parkway
 Louisville, KY 40223
 (502) 245-3883

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REVISION DATES	

SIGNING AND MARKING PLANS			
BRANNON ROAD			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			26-0010



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

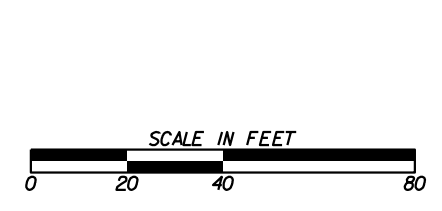
BEGIN LIMIT OF ACCESS.....BLA	-----o-----
END LIMIT OF ACCESS.....ELA	-----o-----
REQ'D LIMIT OF ACCESS	-----h-----
REQ'D LIMIT OF ACCESS & R/W	-----h-----
ORANGE BARRIER FENCE	-----b-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----v-----

PLANS PREPARED AND SUBMITTED BY:

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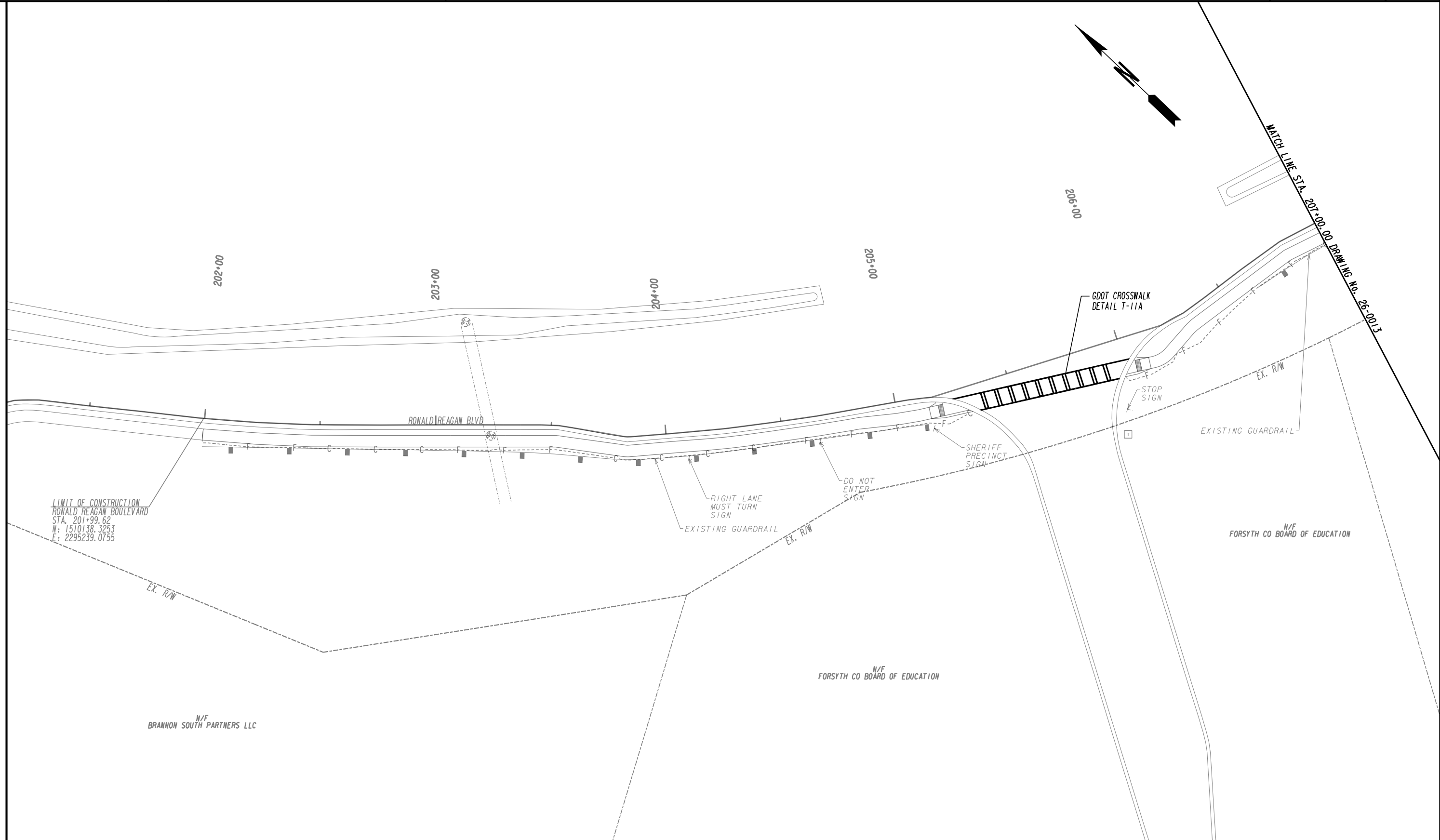
DESIGN CONSULTANT

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REVISION DATES	

SIGNING AND MARKING PLANS			
BRANNON ROAD			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			26-0011



PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	---C---F---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA	---o---o---
END LIMIT OF ACCESS.....ELA	--- --- ---
REQ'D LIMIT OF ACCESS	---o---o---
REQ'D LIMIT OF ACCESS & R/W	--- --- ---
ORANGE BARRIER FENCE	---●---●---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---▲---▲---

PLANS PREPARED AND SUBMITTED BY:

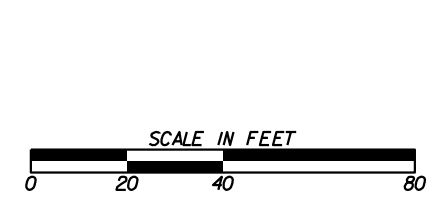
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PROFESSIONAL ENGINEERING

Branch Office:
 65 Aberdeen Drive
 Glasgow, KY 42044
 (270) 651-7220
 2500 Nelson Miller Parkway
 Louisville, KY 40223
 (502) 245-3883
 5160 Acworth Landing Drive
 Acworth, GA 30009
 (770) 421-8422



REVISION DATES	

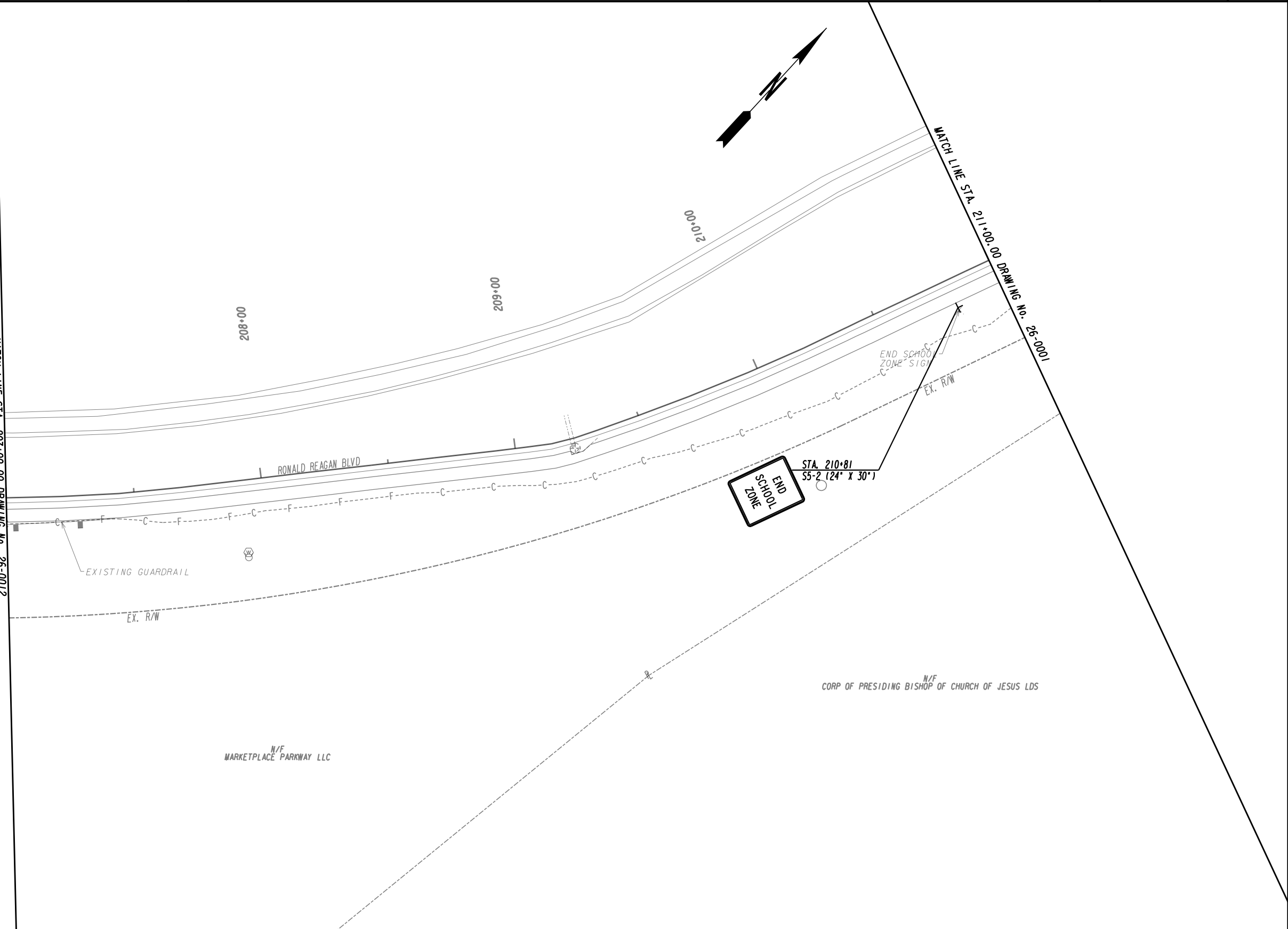
SIGNING AND MARKING PLANS

RONALD REAGAN BOULEVARD

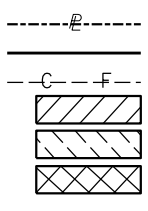
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-0012
CORRECTED:	DATE:	
VERIFIED:	DATE:	

MATCH LINE STA. 207+00.00 DRAWING No. 26-0012

MATCH LINE STA. 211+00.00 DRAWING No. 26-0001



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



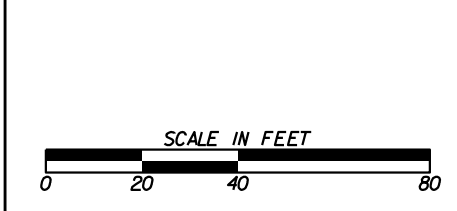
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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

Branch Office:
 65 Aberdeen Drive
 Glasgow, KY 42044
 (270) 651-7220
 2500 Nelson Miller Parkway
 Louisville, KY 40223
 (502) 245-3883

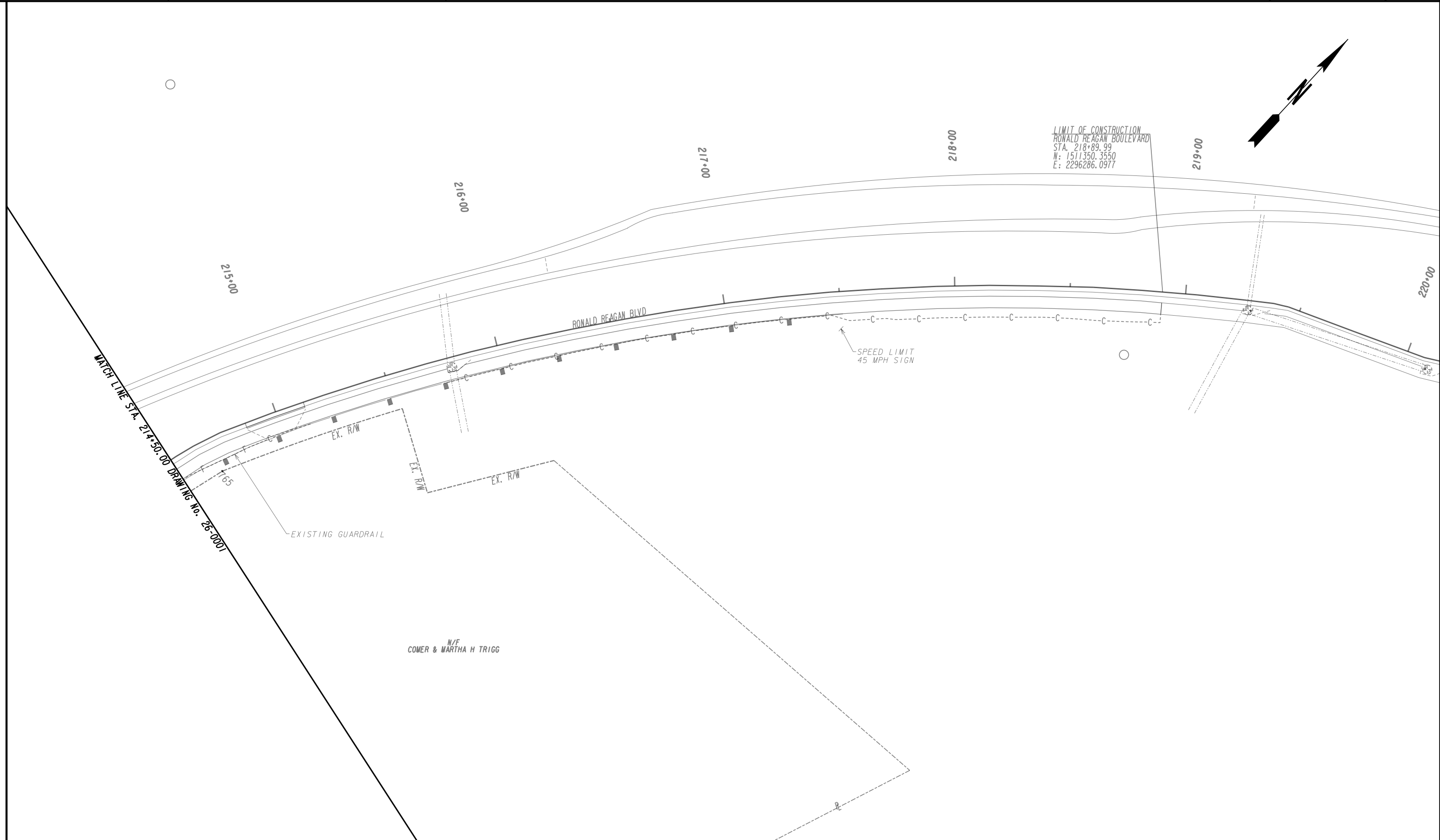
Branch Office:
 5160 Acworth Landing Drive
 Acworth, GA 30093
 (770) 421-8422

PROFESSIONAL ENGINEERING

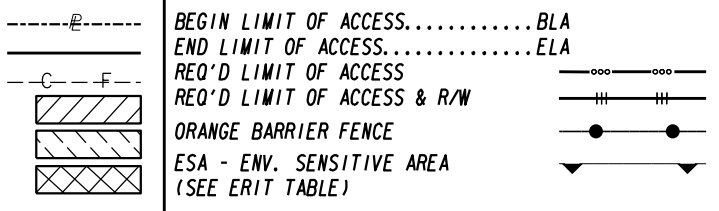


REVISION DATES	

SIGNING AND MARKING PLANS			
RONALD REAGAN BOULEVARD			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	26-0013	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



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:

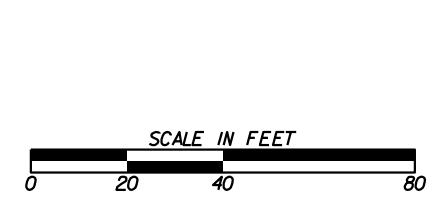
AEI
 AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT

2500 Nelson Miller Parkway
 Louisville, KY 40223
 (502) 245-3883

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 Glasgow, KY 42044
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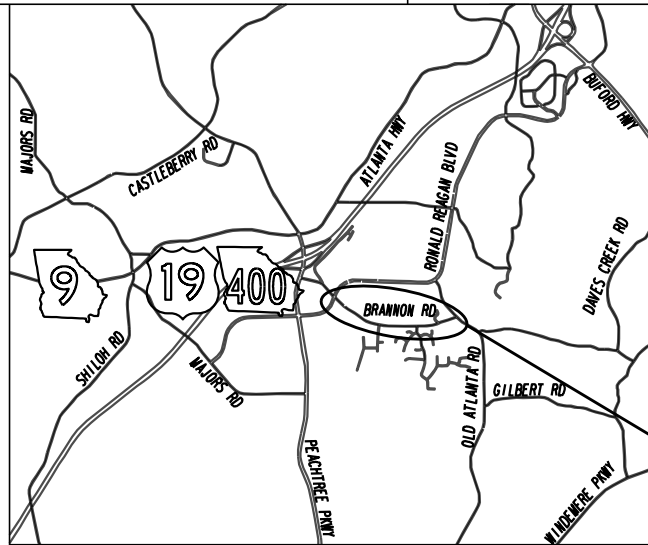
REVISION DATES	

SIGNING AND MARKING PLANS			
RONALD REAGAN BOULEVARD			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	26-0014	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

FORSYTH COUNTY TRANSPORTATION & ENGINEERING DEPARTMENT

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN

BRANNON ROAD SIDEWALK PROJECT RFP #20-95-3150



LOCATION SKETCH

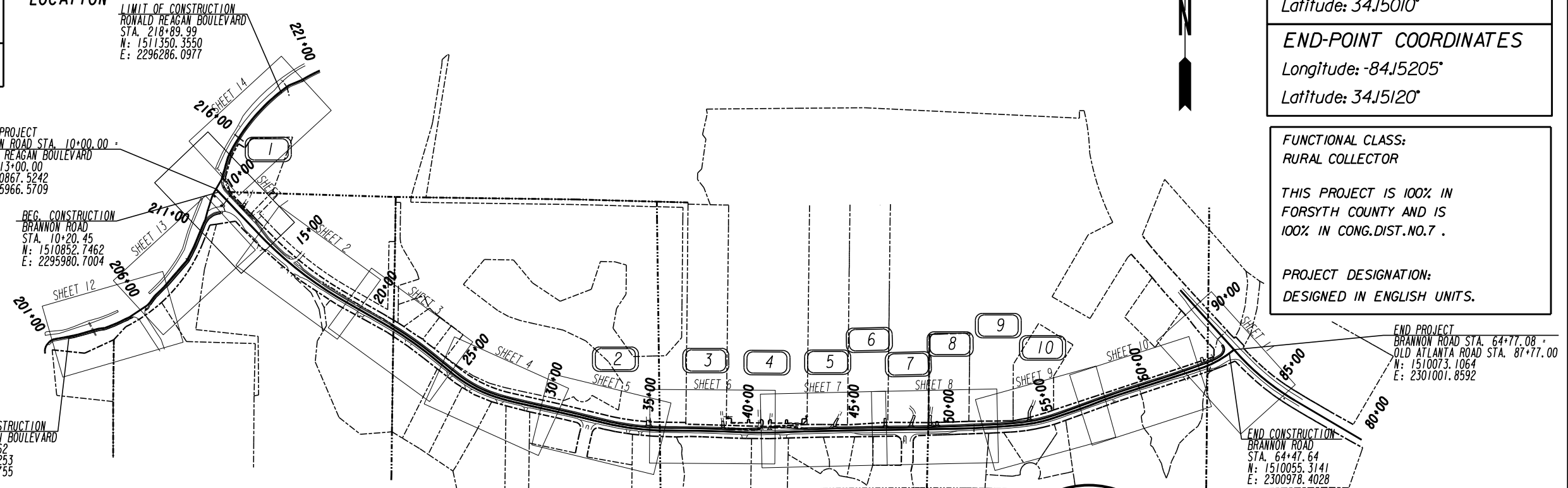
PROJECT LOCATION

LIMIT OF CONSTRUCTION
RONALD REAGAN BOULEVARD
STA. 218+89.99
N: 1511350.3550
E: 2296286.0977

BEGIN PROJECT
BRANNON ROAD STA. 10+00.00
RONALD REAGAN BOULEVARD
STA. 213+00.00
N: 1510867.5242
E: 2295966.5709

BEG. CONSTRUCTION
BRANNON ROAD
STA. 10+20.45
N: 1510852.7462
E: 2295980.7004

LIMIT OF CONSTRUCTION
RONALD REAGAN BOULEVARD
STA. 201+99.62
N: 1510138.3253
E: 2295239.0755



BEGIN-POINT COORDINATES Longitude: -84J6870° Latitude: 34J5335°
MID-POINT COORDINATES Longitude: -84J6095° Latitude: 34J5010°
END-POINT COORDINATES Longitude: -84J5205° Latitude: 34J5120°

FUNCTIONAL CLASS:
RURAL COLLECTOR

THIS PROJECT IS 100% IN FORSYTH COUNTY AND IS 100% IN CONG.DIST.NO.7 .

PROJECT DESIGNATION:
DESIGNED IN ENGLISH UNITS.

END PROJECT
BRANNON ROAD STA. 64+77.08
OLD ATLANTA ROAD STA. 87+77.00
N: 1510073.1064
E: 2301001.8592

END CONSTRUCTION
BRANNON ROAD
STA. 64+47.64
N: 1510055.3141
E: 2300978.4028

"I certify that this Erosion, Sedimentation and Pollution Control Plan has been prepared in accordance with Part IV of the General NPDES Permit No.GARI00002."

GC #0000093599

"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 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.GARI00002."

GC #0000093599

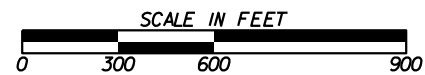
"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for the monitoring of: (a) all perennial and intermittent streams and other water bodies shown on the USGS topographic map and all other field verified perennial and intermittent streams and other water bodies, 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.GARI00002, 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."

GC #0000093599

"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 direct supervision."

GC #0000093599

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.



PLANS PREPARED AND SUBMITTED BY:

Branch Offices

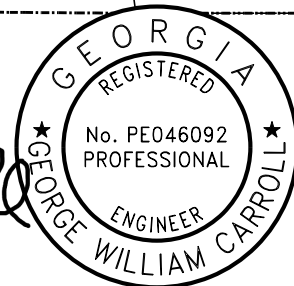
- 65 Aberdeen Drive, Glasgow, KY 42141 (270) 651-7220
- 5160 Acworth Landing Drive, Acworth, GA 30101 (770) 421-8422
- 2500 Nelson Miller Parkway, Louisville, KY 40223 (502) 245-3813



AMERICAN ENGINEERS, INC. PROFESSIONAL ENGINEERING
www.aei.cc DESIGN CONSULTANT

8/19/21

George Carroll



SUBMITTED BY: George W. Carroll, P.E.

PRIMARY PERMITTEE

FORSYTH COUNTY
DEPARTMENT OF TRANSPORTATION
110 East Main Street
Suite 120
Cumming, Georgia 30040
Phone: (770) 781-2165

0000093599
GSWCC LEVEL II Certification Number

24 HOUR CONTACT:

Name _____

Street Address _____

City, State Zip _____

Phone Number _____

Email Address _____

Contractor shall complete the information in this box.

LENGTH OF PROJECT	COUNTY No.117
	MILES
NET LENGTH OF ROADWAY	1.037
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	1.037
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	1.037

PLANS COMPLETED 07-27-2021				
REVISIONS				
DATE	ENTITY REQUESTING REVISION(S)	DRAWING NUMBER(S)	SIGNATURE	GSWCC LEVEL II CERT.#
08-18-2021	GEORGIA EPD	50-0001.51-0003	<i>George Carroll</i>	0000093599
- -	- -	- -	- -	- -
- -	- -	- -	- -	- -
- -	- -	- -	- -	- -
- -	- -	- -	- -	- -

ESPCP GENERAL NOTES

The escape of sediment from the project site shall be prevented by the installation of erosion and sediment control measures and practices prior to 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 control, additional erosion and sedimentation control measures shall be implemented to control or treat the sediment source.

ESPCP ALTERATIONS

This Erosion, Sedimentation, and Pollution Control Plan (ESPCP) is provided by the Department. It addresses the staged construction of the project on the basis of common construction methods and techniques. If the Contractor elects to alter the staged 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-Control of Soil Erosion and Sedimentation of the contract.

The Contractor, the Certified Design Professional, and the WECS shall carefully evaluate this plan prior to commencing land-disturbing activities. Amendments/revisions to the ESPCP which have a significant effect on BMPs with a hydraulic component requires a formal revision of the ESPCP and the signature of a GSWCC Level-II Certified Design Professional. Additional BMPs may be added per Special Provision 161-Control of Soil Erosion and Sedimentation.

CONSTRUCTION SCHEDULE AND 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 after the project is awarded along 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 this ESPCP to minimize or eliminate the vehicle tracking of dirt, soils, and sediments off site. To facilitate project logistics, the Contractor is also responsible for selecting the location(s) of the construction exits(s).

The project consists of the addition of 5-ft sidewalk, drainage improvements, and curb and gutter along Brannon Road. The project also includes the addition of a 5-ft sidewalk along Ronald Reagan Boulevard.

Initial BMP Construction (Stage IA):
Stage IA is to take place before any existing ground is disturbed and is to consist of the placement of perimeter silt fencing, inlet sediment traps, and silt control gates at existing drainage structures as shown on the BMP Location Plans.

Intermediate and Final BMP Construction (Stages 1, 2, & 3):
Stages 1 & 2 are to consist of the placement of construction exits and rip rap check dams as soon as grading is completed while sediment traps are to be in place as soon as drainage structures are installed. Mulch and plant temporary grassing as required by the Standard and Special Provisions. Install inlet sediment traps around structures as shown. Maintain a sump around filter rings shown for Sd2-F until final grade has been established. As soon as final grade has been established, install sod. All temporary BMPs are to be removed upon completion of construction and final stabilization.

SITE STABILIZATION AND VEGETATION PLANTING SCHEDULE

The EPD General NPDES GARI00002 permit states that any disturbed area where construction activities have temporarily or permanently ceased shall be stabilized within 14 days of such cessation or as soon as practicable if precluded by adverse weather conditions. However in special cases, the Project Engineer may require the contractor to perform stabilization more often than 14 days.

Disturbed areas shall be stabilized with suitable material listed in the current edition of the Department's Standard Specifications (or Special Provisions) Sections 161, 163, 700, or 711 on the basis of when construction activities are expected to resume.

All temporary and permanent vegetative practices including plant species, planting dates, seeding, fertilizing, liming, and mulching rates 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.

BMP INSTALLATION AND MAINTENANCE MEASURES

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

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 BMPs needed for onsite storage and spill prevention for petroleum products. This plan shall be prepared by a Certified Design Professional as required by GARI00002 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.

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. Waste materials shall not be discharged to Waters of the State, except as authorized by a Section 404 Permit.

DEWATERING AND PUMPING ACTIVITIES

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 pumped discharges. The contractor shall prepare sampling plans in accordance with the current GARI00002 NPDES permit by utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

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 the delivery of Portland cement concrete 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 travelled way, including shoulders, for a wash-down pit. The pit shall be large enough to store all wash-down water without overtopping. 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 it shall be graded to match the elevation of the surrounding areas. 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 pit that includes the following: (1) a location away from any storm drain, stream, or river, (2) access to the vehicle being used for wash down, (3) sufficient volume for wash-down water, and (4) permission to use the area for wash down.

On sites where permission or access to excavate a wash-down pit is unavailable, the Contractor may have to wash-down into a sealable 55-gallon drum or other suitable container and then transport the container 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".

NONSTORMWATER DISCHARGES

Nonstormwater discharges defined in Part III.A.2 of the NPDES Permit will be identified after construction has commenced. These discharges shall be subject to the same requirements as storm water discharges required by the Georgia Erosion and Sedimentation Control Act, the NPDES Permit, the Clean Water Act, the Manual for Erosion and Sediment Control in Georgia, Department Standards, and other contract documents. The NPDES does not authorize the discharge of soaps or solvents used in vehicle and equipment washing or the discharge of wastewater containing sludge, paint, oils, curing compounds, and other construction materials.

OTHER CONTROLS

If the Contractor elects to store building material, building products, construction waste, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials on the site, the Contractor shall provide an appropriate covering to minimize the exposure of those materials or products to precipitation and stormwater to minimize the discharge of pollutants. Minimization of exposure is not required in cases where exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of the specific material or product poses little risk to stormwater contamination or is intended for outdoor use.

The Contractor shall follow this ESPCP and ensure and demonstrate compliance with all 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 Standard Specifications.

POSTCONSTRUCTION BMPs FOR STORMWATER MANAGEMENT

All permanent postconstruction BMPs are shown in the construction plans and in the ESPCP plan. The postconstruction BMPs for this project consist of detention ponds, bioretention basins, sand filter basins, bioslopes, enhanced dry/wet swales, vegetated swales/ditches, vegetation, permanent slope drains and/or flumes, riprap at pipe outlets for velocity dissipation and outlet stabilization, channel/ditch stabilization with turf reinforcing mats, slope stabilization matting, riprap and concrete ditch lining where necessary. The postconstruction BMPs will provide permanent stabilization of the site and prevent abnormal transportation of sediment and pollutants into receiving waters.

SOIL SERIES INFORMATION

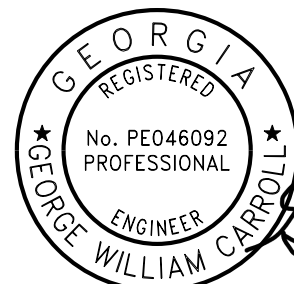
The following is a summary of the soils that are expected to be found on the project site:

Symbol	Name
AdB2	Appling sandy clay loam, eroded very gently sloping phase
CaB3	Cecil clay loam, severely eroded very gently sloping phase
CaC3	Cecil clay loam, severely eroded, gently sloping phase
CaD3	Cecil clay loam, severely eroded sloping phase
CcB2	Cecil sandy loam, 2 to 6 percent slopes, moderately eroded
CcC	Cecil sandy loam, 6 to 10 percent slopes
CcC2	Cecil sandy loam, 6 to 10 percent slopes, moderately eroded
CcD	Cecil sandy loam, 10 to 15 percent slopes
CcD2	Cecil sandy loam, eroded sloping phase
Cd	Chewacla silt loam, 0 to 2 percent slopes, occasionally flooded
Sb	Severely gullied land

Due to the size and scope of this project and the nature of soil series maps, it is not reasonably practical to delineate the precise locations of the above listed soils on the construction plans. The NRCS soil survey and soil series maps for the project site are also available online at <http://websol survey.sc.egov.usda.gov/App/HomePage.htm>.

SILT FENCE INSTALLATION WITH J HOOKS AND SPURS

Silt fence should never be run continuously. The silt fence should turn back 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 embankments 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.



7/27/21

George W. Carroll

SUBMITTED BY:

George W. Carroll, P.E.

0000093599

GSWCC LEVEL II Certification Number

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
www.aei.cc

DESIGN CONSULTANT

Branch Office:
 65 Aberdeen Drive, Glasgow, KY 40304 (770) 651-7220
 516 Acworth Landing Drive, Acworth, GA 30093 (770) 421-8422
 2500 Nelson Miller Parkway, Louisville, KY 40223 (502) 245-3883

NTS

REVISION DATES

ESPCP GENERAL NOTES

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

51-0002

SEDIMENT STORAGE

The site has a total disturbed area of 2.43 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.

Table with 11 columns: Drainage Area Designation, Location, Total Drainage Area, Disturbed Area, Required Sediment Storage Volume, Total Storage Volume Provided, Temporary Sediment Basins, Check Dams, Inlet Sediment Traps, Silt Gates, Silt Fence.

To prevent runoff from bypassing inlet sediment traps, a temporary sump shall be installed around all inlet sediment traps that are not located in a low point or an excavated sump.

Station 51+21 RT: The disturbed area within the drainage area is 0.41 acres. While there are not enough erosion control measures to treat the entire drainage area, there are more than sufficient erosion control measures to adequately treat the sediment disturbed caused by construction.

Station 59+68 RT: The disturbed area within the drainage area is 0.44 acres. While there are not enough erosion control measures to treat the entire drainage area, there are more than sufficient erosion control measures to adequately treat the sediment disturbed caused by construction.

RIPRAP OUTLET PROTECTION

Table with 12 columns: Structure #, Pipe Diameter, Q25, V25, Tailwater Condition, Width at Drainage Structure, Apron Length, Downstream Width, Average Stone Diameter, Apron Thickness, Riprap Type, Quantity.

INSPECTIONS AND REPORTING

As the primary permittee, the Department 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 BMPs within 7 days of installation over the entire infrastructure project.

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 and reporting requirements.

Whenever the Department finds that a BMP has failed or is deficient beyond routine maintenance and has resulted in sediment deposition into waters of the State, the Contractor shall take reasonable steps to address the condition, including cleaning up any contaminated surfaces so the material will not discharge in subsequent storm events.

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.

STATE-WATER BUFFER IMPACTS

State-water buffers, as defined by O.C.G.A. 12-7-1, are not impacted by this project.

Non-exempt activities shall not be conducted within the 25- or 50-foot undisturbed stream buffers as measured from the point wrested vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits.

WATER QUALITY INSPECTING AND SAMPLING PROCEDURES

See other contract documents for the inspecting and sampling Procedures. Sampling locations are provided in the Sampling Location table herein.

USE OF ALTERNATIVE AND/OR ADDITIONAL BWMS:

No alternative or additional BWMS will be used on this project.

DISCHARGES INTO OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an Impaired stream segment that has been listed for criteria violated, "Bio F" (Impaired fish community) and/or "Bio M" (Impaired macro invertebrate community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

ANTICIPATED ACTIVITY SCHEDULE

Activity Schedule table with columns for Activity / Month and months 1 through 9.

ANTICIPATED START DATE: SEPTEMBER 2021

SAMPLING LOCATIONS AND 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 0-10, 10 being the most erodible soil.

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.

Table with 2 main sections: SAMPLING INFORMATION and REPRESENTATIVE SAMPLING SCHEME. Includes columns for Primary Sampled Feature, Location, Name of Receiving Water, Applicable Construction Stage, Sampling Type, etc.

The primary sampled features specified should be used as the initial sampling locations. An alternate sampled feature may be used if additional sampling is required or to replace a primary sampled feature that is no longer located within the active phase of construction.

RETENTION OF RECORDS

The Department will retain all records related to the implementation of this ESPCP in accordance with Part IV.F of the General Permit GARI00002.

SAMPLING FREQUENCY

Sampling shall occur for the following qualifying events: a) First rain event that reaches or exceeds 0.5 inch with a stormwater discharge that occurs during normal business hours after all clearing and grubbing operations have been completed, but prior to completion of mass grading operations;



8/19/21

George Carroll

SUBMITTED BY:

George W. Carroll, P.E.

0000093599

GSWCC LEVEL II Certification Number

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

NTS

REVISION DATES

Table with 2 columns: Date, Description.

ESPCC GENERAL NOTES

BRANNON ROAD

Table with 2 columns: CHECKED/BACKCHECKED/VERIFIED, DATE.

DRAWING No.

51-0003

SAMPLING ANALYTICAL METHODS

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 V.E.

DEFINITION

The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization.

CONDITIONS

Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other denuded areas.

SPECIFICATIONS

Grading and Shaping

Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks shall be sloped to enable plant establishment.

When conventional seeding and fertilizing are to be done, graded and slope where feasible and practical, so that equipment can be used safely and efficiently during seeded preparation, seeding, mulching and maintenance of the vegetation.

Concentrations of water that will cause excessive soil erosion shall be diverted to a safe outlet. Diversions and other treatment practices shall conform with the appropriate standards and specifications.

Seedbed Preparation

Seedbed preparation may not be required where hydraulic seeding and fertilizing equipment is to be used. When conventional seeding is to be used, seedbed preparation will be done as follows:

Broadcast Plantings

1. Tillage at a minimum, shall adequately loosen the soil to a depth of 4 to 6 inches; all loose compacted, incorporate lime and fertilizer, smooth and firm the soil, allow for the proper placement of seed, sprigs, or plants; and allow for the anchoring of straw or hay mulch if a disk is to be used.
2. Tillage may be done with any suitable equipment.
3. Tillage should be done on the contour where feasible.

4. On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pitted or trenched across the slope with appropriate hand tools to provide two places 8 to 8 inches apart in which seed may lodge and germinate. Hydraulic seeding may also be used.

Individual Plants

1. Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or dibble planting.
2. For nursery stock plants, holes shall be large enough to accommodate roots without crowding.
3. Where pine seedlings are to be planted, subsoil under the root 36 inches deep on the contour four to six months prior to planting. Subsoiling should be done when the soil is dry, preferably in August or September.

Planting

Hydraulic Seeding

Mix the seed (non-coated if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.

Conventional Seeding

Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a outpacker or sodder, drill, rotary sodder, other mechanical seeder, or hand seeding to distribute the seed uniformly over the area to be treated. Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a outpacker or other suitable equipment.

No-Till Seeding

No-till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stands a space enough to allow adequate growth of the permanent (perennial) species. No-till seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

Individual Plants

Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the roots. Nursery stock plants shall be planted at the same depth or slightly deeper than they grew at the nursery. The type of vines and sprigs must be set at or slightly above the ground surface. Where individual holes are dug, fertilizer shall be placed in the bottom of the hole, two inches of soil shall be added and the plant shall be set in the hole.

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

DEFINITION

Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

CONDITIONS

Mulch or temporary grazing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored, and have a minimum 80% cover or greater of the soil surface. Maintenance shall be required to maintain appropriate depth and 80% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months. If an area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed.

SPECIFICATIONS

MULCHING WITHOUT SEEDING

This standard applies to graded or cleared areas where seedlings may not have a suitable growing season to produce an erosion retardant cover, but can be stabilized with a mulch cover.

Site Preparation

1. Grade to permit the use of equipment for applying and anchoring mulch.
2. Install silted erosion control measure as required such as dikes, diversions, berms, terraces and sediment barriers.
3. Loosen compact soil to a minimum depth of 3 inches.

Mulching Materials

Select one of the following materials and apply at the depth indicated:

1. Dry straw or hay shall be applied at a depth of 2 to 4 inches providing complete soil coverage. One advantage of this material is easy application.

Mulching

Temporary vegetation can, in most cases, be established without the use of mulch. Mulch without seeding should be considered for short term protection. Refer to Ds1 - Disturbed Area Stabilization (With Mulching Only).

Irrigation

During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed. Subsequent applications should be made when needed.

Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

DEFINITION

Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% soil cover. Select the mulching material from the following and apply as indicated:

Individual Plants

1. Dry straw or dry hay of good quality and free of weed seeds can be used. Dry straw shall be applied at the rate of 2 tons per acre. Dry hay shall be applied at a rate of 2 1/2 tons per acre.
2. Wood cellulose mulch or wood pulp fiber shall be used with hydraulic seeding. It shall be applied at the rate of 500 pounds per acre. Dry straw or dry hay shall be applied at the rate indicated above after hydraulic seeding.
3. One thousand pounds of wood cellulose or wood pulp fiber, which includes a tackifier, shall be used with hydraulic seeding on slopes 8/4:1 or steeper.
4. Severe lespedeza hay containing mature seed shall be applied at a rate of three tons per acre.
5. Pine straw or pine bark shall be applied at a thickness of 3 inches for bedding purposes. Other suitable material in sufficient quantity may be used where circumstances or other ground covers are planted. This is not appropriate for seeded areas.
6. When using temporary erosion control blankets or block sod, mulch is not required.
7. Biomass or treated roving may be applied on planted areas on slopes, in ditches or dry waterways to prevent erosion. Simultaneous treated roving shall be applied within 24 hours after an area has been planted. Application rates and materials must meet Georgia Department of Transportation specifications.

Planting

Wood cellulose and wood pulp fibers shall not contain germination or growth inhibiting factors. They shall be evenly dispersed when agitated in water. The fibers shall contain a dye to allow visual metering and aid in uniform application during seeding.

Applying Mulch

Straw or hay mulch will be spread uniformly within 24 hours after a seeding and/or planting. The mulch may be spread by blower-type spreading equipment, other spreading equipment or by hand. Mulch shall be applied to cover 75% of the soil surface.

Anchoring Mulch

Anchor straw or hay mulch immediately after application by one of the following methods:

1. Emulsified asphalt can be (a) sprayed uniformly onto the mulch as it is seeded from the lower machine or (b) sprayed on the mulch immediately following mulch application when straw or hay is spread by methods other than special blower equipment.

Wood Cellulose or Wood Pulp Fiber

Wood cellulose or wood pulp fiber mulch shall be applied uniformly with hydraulic seeding equipment.

Applying Mulch

Straw or hay mulch will be spread uniformly within 24 hours after a seeding and/or planting. The mulch may be spread by blower-type spreading equipment, other spreading equipment or by hand. Mulch shall be applied to cover 75% of the soil surface.

Anchoring Mulch

Anchor straw or hay mulch immediately after application by one of the following methods:

1. Emulsified asphalt can be (a) sprayed uniformly onto the mulch as it is seeded from the lower machine or (b) sprayed on the mulch immediately following mulch application when straw or hay is spread by methods other than special blower equipment.

DEFINITION

A permanent vegetation using sods on highly erodible or critically eroded lands.

CONDITIONS

This application is appropriate for areas which require immediate vegetative cover, drop inlets, grass swales, and waterways with intermittent flow.

CONSTRUCTION SPECIFICATIONS INSTALLATION

Soil Preparation

Bring soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 4". Apply sod to soil surfaces only and not frozen surfaces, or gravel type soils.

Topsoil properly applied will help guarantee stand. Don't use topsoil recently treated with herbicides or soil sterilants.

Mix fertilizer into soil surface. Fertilizer based on soil tests or Table 6-6.1. For fall planting of warm season species, half the fertilizer should be applied at planting and the other half in the spring.

Table 6-6.1. Fertilizer Requirements for Soil Surface Application

Fertilizer Type (lbs./acre)	Fertilizer Rate (lbs./acre)	Fertilizer Rate	Season
10-10-10	1000	.025	Fall

Table 6-6.2. Fertilizer Requirements for Sod

Types of Species	Planting Year	Fertilizer (N-P-K)	Rate (lbs./acre)	Nitrogen Top Dressing Rate (lbs./acre)
Cool Season Grasses	First	6-12-12	1500	60-100
	Second	6-12-12	1000	-
	Maintenance	10-10-10	400	80
Warm Season Grasses	First	6-12-12	1500	60-100
	Second	6-12-12	800	60-100
	Maintenance	10-10-10	400	80

Installation:
- Lay sod with tight joints and in straight lines. Don't overlap joints. Stagger joints and don't stretch sod.
- On slopes steeper than 3:1, sod should be anchored with wooden or biodegradable pins or other approved methods.
- Installed sod should be rolled or tamped to provide good contact between sod and soil.
- Irrigate sod and soil to a depth of 4" immediately after installation.
- Sod should be cut or spread in extremely wet or dry weather.
- Irrigation should be used to supplement rainfall for a minimum of 2-8 weeks.

Ds4 DISTURBED AREA STABILIZATION (WITH SODDING)

DEFINITION

The establishment of temporary vegetative cover with fast growing seedlings for seasonal protection on disturbed or denuded areas.

CONDITIONS

Temporary grazing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. Temporary vegetative cover should be coordinated with permanent measures to assure economical and effective stabilization. Most types of temporary vegetation are ideal to use as companion crops until the permanent vegetation is established.

SEEDING RATES FOR TEMPORARY SEEDING

SPECIES	RATE Per 1,000 sq.ft.	RATE Per Acre *	PLANTING DATES **
Rye	0.9 pounds	3 bu.	9/1-3/1
Ryegrass	0.8 pound	40 lbs.	9/15-4/1
Annual Lespedeza	0.9 pound	40 lbs.	4/15-9/15
Woolgrass	0.4 pound	4 lbs.	2/15-6/15
Sudangrass	1.4 pounds	60 lbs.	9/1-6/1
Browntop Millet	0.9 pound	40 lbs.	4/1-7/15
Wheat	4.4 pounds	3 bu.	9/15-3/1

* Unusual site conditions may require heavier seeding rates
** Seeding dates may need to be altered to fit temperature variations and conditions.

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)

SPECIFICATIONS

Grading and Shaping

Excessive water run-off shall be reduced by properly designed and installed erosion control practices such as closed drains, ditches, dikes, diversions, sediment barriers and others.

No shaping or grading is required if slopes can be stabilized by hand-seeded vegetation or if hydraulic seeding equipment is to be used.

Seedbed Preparation

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall.

When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

Lime and Fertilizer

Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate of one ton per acre. Graded areas require lime application. Soils can be tested to determine if fertilizer is needed. On reasonably fertile soils or soil material, fertilizer is not required. For soils with very low fertility, 500 to 700 pounds of 10-10-10 fertilizer or the equivalent per acre (2-16 lbs./1,000 sq. ft.) shall be applied. Fertilizer should be applied before land preparation and incorporated with a disk, ripper or chisel.

Seeding

Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, outpacker seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or outpacker seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand.

Mulching

Temporary vegetation can, in most cases, be established without the use of mulch. Mulch without seeding should be considered for short term protection. Refer to Ds1 - Disturbed Area Stabilization (With Mulching Only).

Irrigation

During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed. Subsequent applications should be made when needed.

7/27/21

George Carroll



SUBMITTED BY:

George W. Carroll, P.E.

0000093599

GSWCC LEVEL II Certification Number

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

REVISION DATES

ESPCP GENERAL NOTES

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	51-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
	ORANGE BARRIER FENCE		ORANGE BARRIER FENCE DELINEATES ENVIRONMENTALLY SENSITIVE AREAS WHERE THE CONTRACTOR SHALL NOT CLEAR, GRUB, OR PLACE CONSTRUCTION MATERIALS OR EQUIPMENT WITHIN THIS AREA.
		LINE CODE 	
ESA	ENVIRONMENTALLY SENSITIVE AREA		AN ENVIRONMENTALLY SENSITIVE AREA (ESA) CONTAINS RESOURCES THAT ARE ENVIRONMENTALLY, CULTURALLY, OR HISTORICALLY SENSITIVE. ESAs INCLUDE, BUT ARE NOT LIMITED TO: STATE WATER BUFFERS, HISTORIC SITES, ARCHAEOLOGICAL SITES, AND PROTECTED ANIMAL AND PLANT SPECIES HABITATS. IF WORK IS AUTHORIZED IN THIS AREA, THE WORK MUST BE PERFORMED IN ACCORDANCE WITH SECTION 107 AND ANY OTHER APPLICABLE SPECIAL PROVISIONS AND APPLICABLE PLAN NOTES.
		LINE CODE 	
		ESA-25' (OR 50') STREAM BUFFER, ETC.	
Bf	BUFFER ZONE		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. WHEN NECESSARY, BUFFER ZONES ARE TO BE PROTECTED BY ORANGE BARRIER FENCE.
		SYMBOL Bf	
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. MULCHING REQUIREMENTS ARE ADDRESSED BY STANDARD SPECIFICATIONS AND/OR THE PROJECT ENGINEER.
		SYMBOL Ds1	THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
Ds2	TEMPORARY GRASSING SECTION 163, 700		THE SOWING OF A QUICK GROWING SPECIES OF GRASS SUITABLE TO THE AREA AND SEASON. IT IS TYPICALLY USED TO CONTROL EROSION IN AREAS LONGER THAN MULCHING IS EXPECTED TO LAST. TEMPORARY GRASSING SHOULD BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATIONS.
		SYMBOL Ds2	THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.

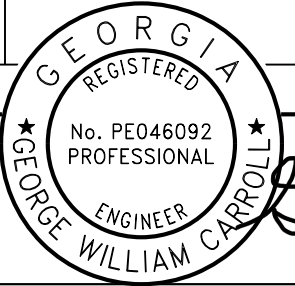
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ds3	PERMANENT GRASSING SECTION 700		THE SOWING OF PERMANENT VEGETATION, SUCH AS GRASS, SUITABLE TO THE AREA AND SEASON. PERMANENT VEGETATION SHALL BE USED ON ALL PROJECTS ACCORDING TO THE STANDARD SPECIFICATION. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
		SYMBOL Ds3	
Ds4	SODDING CONSTRUCTION DETAIL D-54 SECTION 700, 890		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 Ds4	THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
F1-Co	FLOCCULANTS COAGULANTS SECTION 163, 700, 895		FLOCCULANTS AND COAGULANTS ARE USED TO SETTLE SUSPENDED SEDIMENT, HEAVY METALS, AND HYDROCARBONS (TSS) IN SLOW MOVING RUNOFF FROM CONSTRUCTION SITES FOR WATER CLARIFICATION. ANIONIC POLYACRYLAMIDES (PAM) MAY BE USED IN CONJUNCTION WITH BMPs WITHIN CHANNELS UPSTREAM OF A POST-CONSTRUCTION POND, TEMPORARY SEDIMENT BASIN, OR TEMPORARY SEDIMENT TRAP. FLOCCULANTS SHALL NOT BE USED DOWNSTREAM OF AFOREMENTIONED BMPs! FLOCCULANTS/COAGULANTS ARE TO BE SHOWN ON PLANS WITH APPLICABLE BMP IF NEEDED. PAYMENT FOR PAM AS A FLOCCULANT WILL BE INCLUDED IN THE PRICE FOR THE INSTALLATION AND/OR MAINTENANCE OF THE BMP IT IS USED IN CONJUNCTION WITH. NO SEPARATE PAYMENT WILL BE MADE.
		SYMBOL F1-Co POLYACRYLAMIDE	
Sb	STREAMBANK STABILIZATION SECTION 702		STREAMBANK STABILIZATION IS THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT, OR RESTORE AND REPAIR SMALL STREAMBANK EROSION PROBLEMS. STREAMBANK STABILIZATION AREAS SHOULD BE SHOWN ON THE PLANS WHEN APPLICABLE TO THE PROJECT. REFER TO THE PROJECT'S STREAM AND STREAM BUFFER MITIGATION PLANS FOR PLANT SPECIES, LOCATIONS, AND OTHER PLANTING DETAILS.
		PATTERN Sb	

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 AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.

PLANS PREPARED AND SUBMITTED BY:

 AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT



SUBMITTED BY: *George W. Carroll*
 George W. Carroll, P.E. 0000093599
 GSWCC LEVEL II Certification Number

NTS

REVISION DATES	
03/02/2017	

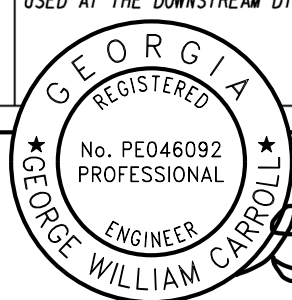
EROSION CONTROL LEGEND		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	52-0001

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716		SLOPE STABILIZATION (EROSION CONTROL MATTING) IS A PROTECTIVE COVERING USED TO PREVENT EROSION AND ESTABLISH TEMPORARY OR PERMANENT VEGETATION ON STEEP SLOPES, SHORE LINES, OR CHANNELS. SLOPE STABILIZATION MAY BE A ROLLED EROSION CONTROL PRODUCT (RECP) OR A HYDRAULIC EROSION CONTROL PRODUCT (HECP). SLOPE STABILIZATION SHALL BE USED ON ALL CUT OR FILL SLOPES OF 2.5:1 OR STEEPER AND WITHIN 50 FEET OF ALL CROSS DRAINS AND CULVERTS. NOTE: ONLY COCONUT FIBER BLANKET OR WOOD FIBER BLANKET SHALL BE USED AS SLOPE STABILIZATION WITHIN BUFFERED AREAS.
		PATTERN 	
Tac	TACKIFIERS SECTION 163, 700, 895		TACKIFIERS HYDRATE IN WATER AND READILY BLEND WITH OTHER SLURRY MATERIALS AND ARE USED TO TIE-DOWN FOR SOIL, COMPOST, SEED, STRAW, HAY OR MULCH. TACKIFIERS REQUIREMENTS, SUCH AS ANIONIC POLYACRYLAMIDES (PAM) ARE ADDRESSED BY STANDARD SPECIFICATIONS AND ARE NOT TYPICALLY SHOWN ON THE PLANS. PAM IS TYPICALLY USED BY THE CONTRACTOR FOR TEMPORARY OR PERMANENT GRASSING. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR CRITERIA.
		SYMBOL 	
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171		A CHECK DAM COMPOSED OF SYNTHETIC FIBER FABRIC, WIRE REINFORCED, POST, OVERFLOW WEIR, AND TURF REINFORCEMENT MATTING (TRM) SPLASHPAD PLACED IN DITCHES IN A SPECIAL CONFIGURATION WHICH CONTROLS ENERGY DISSIPATION AND FILTRATION OF STORM WATER. SEE CONSTRUCTION DETAIL D-24D FOR ADDITIONAL INFORMATION AND SPACING REQUIREMENTS. THIS ITEM IS SUITABLE FOR USE IN ROADSIDE DITCHES THAT ARE PART OF INFRASTRUCTURE CONSTRUCTION PROJECTS AND WITHIN THE CLEAR ZONE. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A COMPOST FILTER SOCK CHECK DAM IS COMPOSED OF A PHOTODEGRADABLE OR BIODEGRADABLE KNITTED MESH MATERIAL CONTAINING A WEED FREE FILLER MATERIAL DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THEY SHALL BE PROPERLY STAKED FOR DITCH APPLICATIONS. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR MATERIAL SPECIFICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163		A BALE STRAW CHECK DAM IS COMPOSED OF BALES PREFERABLY BOUND WITH WIRE OR NYLON INSTEAD OF TWINE. BALES SHOULD BE PLACED IN ROWS WITH BALE ENDS TIGHTLY ABUTTING ADJACENT BALES. THE DOWNSTREAM ROW OF BALES SHALL BE PLACED IN A TRENCH TO ALLOW THE TOP OF THE BALE'S LONG, WIDE SIDE TO BE LEVEL WITH THE GROUND AS A NON-ERODIBLE SPLASHPAD. PROPER STAKING IS ALSO REQUIRED FOR DITCH APPLICATIONS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Cd-S	STONE CHECK DAM OR SANDBAG CHECK DAM CONSTRUCTION DETAIL D-56 SECTION 163, 603		STONE CHECK DAMS ARE CONSTRUCTED OF TYPE-3 RIP-RAP WITH GEOTEXTILE UNDERLINER. STONE CHECK DAMS ARE PREFERRED IN ROADWAY DITCHES OUTSIDE THE CLEAR ZONE. CONSIDERATION SHOULD BE GIVEN TO USING OTHER APPROPRIATE CHECK DAMS AND/OR BMPs WITHIN THE CLEAR ZONE. SANDBAG CHECK DAMS ARE RECOMMENDED IN CONCRETE LINED CHANNELS FOR TEMPORARY VELOCITY CONTROL ONLY. ENSURE DISCHARGE POINT IS PROPERLY STABILIZED AND INCLUDE APPROPRIATE BMPs FOR SEDIMENT STORAGE UPSTREAM AND/OR DOWNSTREAM OF CONCRETE LINED CHANNELS. IF THIS ITEM IS USED IN AN AREA WITH FLOWS GREATER THAN 2.0-CFS OR WITHOUT A SEDIMENT BASIN, A MINIMUM OF ONE ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM DISCHARGE POINT.
		SYMBOL 	
Ch-1	VEGETATED CHANNEL STABILIZATION SECTION 700		A NEW OR EXISTING CHANNEL MAY BE LINED WITH PERMANENT VEGETATION ONLY FOR VELOCITIES UP TO 5.0 fps. THIS MEASURE SHALL BE DESIGNED IN ACCORDANCE WITH THE GDOT CHANNEL LINING DESIGN PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. TYPICALLY NOT SHOWN IN PLANS.
		LINE CODE 	
Ch-2R1	CHANNEL STABILIZATION RIP-RAP, TYPE 1 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 1 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
		LINE CODE 	
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603		THIS ITEM CONSISTS OF LINING A CHANNEL WITH TYPE 3 RIP-RAP 24" THICK (UNLESS SPECIFIED OTHERWISE) PLACED ON TOP OF A GEOTEXTILE UNDERLINER. THE RIP-RAP SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED. "Dp" SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
		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 AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



7/27/21

George Carroll
0000093599

SUBMITTED BY:

George W. Carroll, P.E.

GSWCC LEVEL II Certification Number

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PLANS PREPARED AND SUBMITTED BY:
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 65 Aberdeen Drive, Glasgow, KY 42048
 560 Acworth Landing Drive, Acworth, GA 30003
 2500 Nelson Miller Parkway, Louisville, KY 40223
 AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT

REVISION DATES	
03/02/2017	
11/28/2018	

EROSION CONTROL LEGEND

BRANNON ROAD

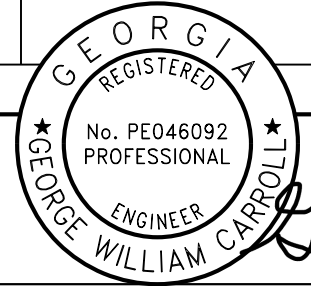
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BACKCHECKED:	DATE:	52-0002
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VERIFIED:	DATE:	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-2 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T2	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-4 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T3	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-6 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T4	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-8 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-2T5	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-10 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711		THIS THREE DIMENSIONAL EROSION CONTROL MAT IS USED IN CONJUNCTION WITH PERMANENT VEGETATION IN CHANNELS TO STABILIZE THE SOIL BY REINFORCING THE GRASS ROOTS TO PROVIDE LONG-TERM PROTECTION FOR SHEAR STRESSES 0-12 psf. THE TRM SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
	LINE CODE		
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441		CHANNELS ARE LINED WITH CONCRETE FOR VELOCITIES >/- 10 fps. THIS ITEM CONSISTS OF CONSTRUCTING A 4" THICK CONCRETE CHANNEL. THE CONCRETE SHALL PROTECT THE CHANNEL FLOWING TO A DEPTH "Dp" RECOMMENDED BY THE GDOT CHANNEL LINING PROGRAM. *Dp* SHALL BE IDENTIFIED IN A TABLE LOCATED ON THE SUMMARY OF QUANTITIES SHEETS AND IN THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN. RIP-RAP SHOULD BE USED TO DISSIPATE ENERGY DOWNSTREAM OF CONCRETE LINED CHANNELS.
	LINE CODE		
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163,800		A CONSTRUCTION EXIT IS A STONE STABILIZED PAD THAT REDUCES OR ELIMINATES THE TRANSPORT OF MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADS BY EQUIPMENT OR RUNOFF. BEST USED AT ACCESS POINTS, I.e. NEW LOCATION PROJECTS, BORROW PITS, WASTE PITS, ACCESS ROADS, ETC. SHOULD BE MINIMUM 20' WIDE, 50' LONG, 6" THICK, AND REQUIRES A GEOTEXTILE UNDERLINER. ON SITES WHERE THE GRADE TOWARD A PAVED AREA IS GREATER THAN 2%, A FULL WIDTH DIVERSION RIDGE 6" TO 8" HIGH WITH 3:1 SLOPES SHALL BE CONSTRUCTED APPROXIMATELY 15' UPSTREAM OF PAVED AREA. A TIRE WASHING AREA TO REMOVE MUD MAY ALSO BE REQUIRED PRIOR TO ENTRANCE ONTO PUBLIC ROADWAYS. ALL CONSTRUCTION EXIT REQUIREMENTS ARE INCLUDED IN THE PRICE OF THE CONSTRUCTION EXIT.
	SYMBOL		
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163		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-S 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 ACCEPTABLE FOR VELOCITIES BETWEEN 0 - 2.5 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE		

NOTE:

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- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



7/27/21
George Carroll
0000093599

SUBMITTED BY: George W. Carroll, P.E. GSWCC LEVEL II Certification Number

PLANS PREPARED AND SUBMITTED BY:
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 Louisville, KY 40223
 (502) 245-3815
 www.aei.cc

REVISION DATES	
03/02/2017	

EROSION CONTROL LEGEND			
BRANNON ROAD			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	52-0003	
CORRECTED:	DATE:		
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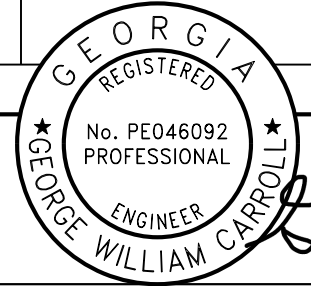
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CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY SECTION 163		A TEMPORARY CHANNEL CONSTRUCTED TO CONVEY FLOW AROUND A CONSTRUCTION SITE WHILE A PERMANENT DRAINAGE STRUCTURE IS BEING CONSTRUCTED 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-S 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 ACCEPTABLE FOR VELOCITIES BETWEEN 2.5 - 9.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE 		
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE SECTION 163		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 RIP-RAP AND GEOTEXTILE. INSTALL TWO ROWS OF Sd1-S 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 ACCEPTABLE FOR VELOCITIES BETWEEN 9.0 - 13.0 fps. THE DRAINAGE AREA SHALL BE NOT GREATER THAN 1 SQUARE MILE. CONSTRUCTION OF THE DIVERSION CHANNEL IS INCLUDED IN THE COST OF THE STRUCTURE.
	LINE CODE 		
DI-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205		A NON-DESIGNED 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 		
DI-2	DIVERSION CHANNEL SECTION 205		A DESIGNED TEMPORARY OR PERMANENT CHANNEL WITH A COMPACTED SUPPORTING RIDGE ON THE LOWER SIDE TO DIVERT OFFSITE RUNOFF AWAY FROM DISTURBED AREAS WITHIN THE PROJECT AREA. CHANNEL FOR OFFSITE RUNOFF SHALL BE STABILIZED WITH APPROPRIATE CHANNEL STABILIZATION. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA. A DIVERSION CHANNEL DETAIL MUST ALSO BE PROVIDED IN THE ESPCP. RUNOFF FROM DISTURBED AREAS WITHIN THE PROJECT AREA SHALL NOT BE ALLOWED TO CONVERGE WITH OFFSITE RUNOFF WITHIN THIS DIVERSION.
	LINE CODE 		
Dn1	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 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 350 FEET ON 0% - 2% GRADES, 200 FEET ON STEEPER GRADES AND MORE FREQUENTLY AS DICTATED BY FIELD CONDITIONS. THE TYPICAL PIPE SIZE IS A CORRUGATED 10". THE PIPE WILL BE ANCHORED WITH STAKES AT INTERVALS NOT TO EXCEED 10". THE OUTLET AREA SHALL BE STABILIZED FOR VELOCITY DISSIPATION AND EROSION CONTROL.
	LINE CODE 		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 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 OTHER CRITERIA).
	LINE CODE 		
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 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 		
Dn2-1	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 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 		
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL 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 		

NOTE:

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- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".



7/27/21
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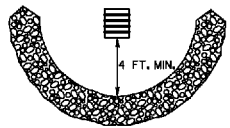

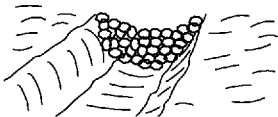





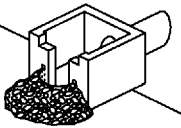

SUBMITTED BY: George W. Carroll, P.E. GSWCC LEVEL II Certification Number

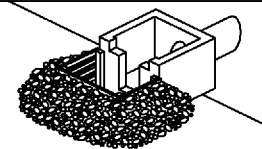

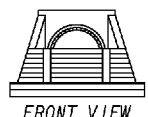

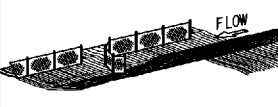

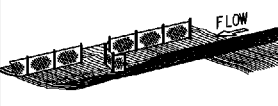

PLANS PREPARED AND SUBMITTED BY:
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

REVISION DATES	
03/02/2017	

EROSION CONTROL LEGEND			
BRANNON ROAD			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	52-0004	
CORRECTED:	DATE:		
VERIFIED:	DATE:		


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CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163		A TEMPORARY STONE BARRIER CONSTRUCTED AT DRAINAGE STRUCTURE INLETS AND POST-CONSTRUCTION POND OUTLETS. IT REDUCES RUNOFF VELOCITY AND HELPS PREVENT SEDIMENT FROM LEAVING SITE PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR ADDITIONAL INFORMATION ON USAGE.
	SYMBOL 		
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603		ROCK FILTER DAMS ARE CONSTRUCTED OF TYPE 3 STONE RIP-RAP FACED WITH *57 STONE ON THE UPSTREAM SIDE. THEY ARE PLACED ACROSS DRAINAGEWAYS WHICH DRAIN 50 ACRES OR LESS. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING ROCK FILTER DAMS. THE DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS. ROCK FILTER DAMS SHOULD BE USED IN DITCHES PRIOR TO DISCHARGING INTO STREAMS, WETLANDS, OPEN-WATERS, OR OTHER ESAs.
	SYMBOL 		
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603		STONE FILTER BERMS ARE CONSTRUCTED SIMILAR TO ROCK FILTER DAMS FOR A LINEAR APPLICATION. THEY ARE CONSTRUCTED OF TYPE-3 STONE RIP-RAP FACED WITH *57 STONE ON THE UPSTREAM SIDE. GEOTEXTILE UNDERLINER SHALL BE USED WHEN PLACING STONE FILTER BERMS. STONE FILTER BERMS ARE IDEAL ALONG THE PERIMETER FOR SHEET FLOW AND/OR SHALLOW CONCENTRATED FLOW TO A COMMON LOW AREA WHERE PERIMETER SILT FENCE ALONE MAY BE INSUFFICIENT, THERE IS NO WELL-DEFINED CHANNEL FOR A STANDARD ROCK FILTER DAM, AND/OR CONSTRUCTING A ROCK OUTLET TEMPORARY SEDIMENT TRAP IS NOT APPLICABLE.
	LINE CODE 		
Rp	RIP-RAP SECTION 603		RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-1 SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
	PATTERN 		
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163		A PERFORATED HALF-ROUND PIPE WITH STONE FILTER PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION POND OUTLET STRUCTURE TO SERVE AS A TEMPORARY SEDIMENT FILTER. SHOULD BE USED ONLY IN DETENTION PONDS WITH LESS THAN 30 ACRES TOTAL DRAINAGE AREA. SHALL ONLY BE USED IN DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR DESIGN CRITERIA.
	SYMBOL 		

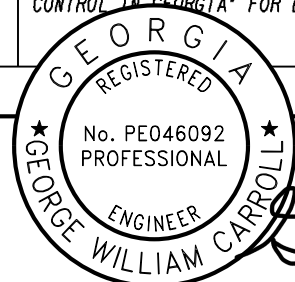
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION		
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163		A SLOTTED BOARD DAM CONSISTS OF STONE AND/OR FILTER FABRIC AND BOARDS WITH 0.5' - 1.0' SPACING TO SERVE AS A TEMPORARY SEDIMENT FILTER. PERMANENT STORMWATER DETENTION POND OUTLET: -DRAINAGE AREA UP TO 100 ACRES -DETENTION BASINS LARGE ENOUGH TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DISTURBED AREA ROADWAY DRAINAGE STRUCTURE: -OPEN END PIPES, WINGED HEADWALLS, OR CONCRETE WEIR OUTLETS WITH DRAINAGE AREA LESS THAN 30 ACRES REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR DESIGN CRITERIA.		
	SYMBOL 				
Rt-Sg1	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163		A SILT CONTROL GATE CONSISTS OF BOARDS WITHOUT SPACING AND FILTER FABRIC TO BE USED FOR TEMPORARY SEDIMENT STORAGE ON ROADWAY PROJECTS AT THE INLET OF STRUCTURES WITH A DRAINAGE AREA UP TO 50 ACRES. THE DISTURBED AREA WITHIN THE DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. SILT CONTROL GATES SHOULD NOT BE USED ALONE, BUT WITH ANOTHER BMP DOWNSTREAM PRIOR TO DISCHARGE LEAVING PROJECT AREA. DO NOT USE SILT GATES IN STATE WATERS. Rt-Sg1-TYPE 1: USED ON BOX CULVERTS Rt-Sg2-TYPE 2: USED ON STRAIGHT HEADWALLS Rt-Sg3-TYPE 3: USED ON FLARED END SECTIONS AND TAPERED HEADWALLS		
				SYMBOL 	
SdI-NS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-A SILT FENCE IS TYPICALLY USED IN NON-ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS LESS THAN 10'. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.		
				LINE CODE 	
SdI-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171		SEDIMENT BARRIERS MINIMIZE AND PREVENT SEDIMENT CARRIED BY SHEET FLOW FROM LEAVING THE PROJECT AREA BY CAUSING DEPOSITION AND/OR FILTRATION OF SEDIMENT. SILT FENCE USED AS PERIMETER CONTROL SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW. TYPE-C SILT FENCE IS TYPICALLY USED IN ENVIRONMENTALLY SENSITIVE AREAS (ESAs) OR IN AREAS WITH FILLS 10' AND GREATER. ALL ENVIRONMENTALLY SENSITIVE AREAS (ESAs) SHALL BE PROTECTED WITH A DOUBLE-ROW OF TYPE-C SILT FENCE REGARDLESS OF FILL HEIGHT. A SINGLE-ROW MAY BE USED FOR OTHER APPLICATIONS. IT SHOULD BE PLACED A MINIMUM OF 10' FROM CONSTRUCTION LIMITS OR ALONG THE RIGHT-OF-WAY LINE.		
				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 AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.

PLANS PREPARED AND SUBMITTED BY:

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 2500 Nelson Miller Parkway, Louisville, KY 40223
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 AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT

SUBMITTED BY:



7/27/21

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0000093599

George W. Carroll, P.E.

GSWCC LEVEL II Certification Number


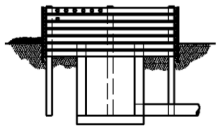

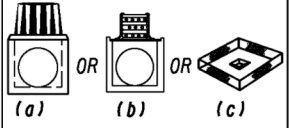

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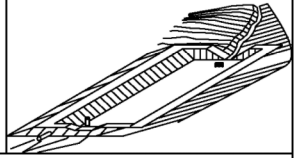
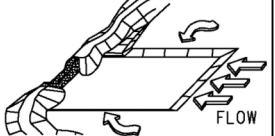
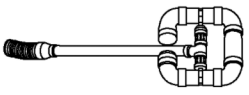
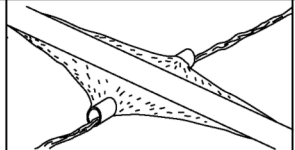
REVISION DATES	
03/02/2017	

EROSION CONTROL LEGEND

BRANNON ROAD


CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	52-0005

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER CONSTRUCTION DETAIL D-24B SECTION 201		THIS ITEM CONSISTS OF INTERMINGLED BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM. CONSTRUCTED AT THE TOE OF FILL SLOPES ONLY 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. TYPICALLY NOT SHOWN ON PLANS. PAYMENT FOR THIS ITEM IS INCLUDED IN THE CLEARING AND GRUBBING COST. NO SEPARATE PAYMENT SHALL BE MADE.
	LINE CODE * * * (Sd1-BB) * * *		
Sd2-B	INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163		BAFFLE BOX INLET SEDIMENT TRAP USED FOR INLETS RECEIVING HIGH FLOW RATE AND/OR VELOCITY. A GUIDE FOR USE WILL BE FOR AN INLET RECEIVING FLOW RATES 7 cfs AND GREATER.
	SYMBOL (Sd2-B)		
Sd2-Bg	INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-42 SECTION 163		BLOCK AND GRAVEL DROP INLET PROTECTION USED FOR 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 FLOW RATES THAT RANGE FROM 5 - 7 cfs.
	SYMBOL (Sd2-Bg)		
Sd2-F	INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-24C 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 RECEIVING CONCENTRATED FLOWS. RECOMMENDED FOR INLET RECEIVING FLOW RATES THAT RANGE FROM 0 - 4 cfs.
	SYMBOL (Sd2-F)		
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163		GRAVEL DROP INLET PROTECTION USED 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 FLOW RATES THAT RANGE FROM 3 - 5 cfs.
	SYMBOL (Sd2-G)		

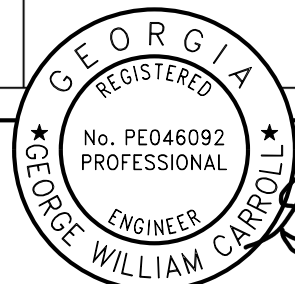
CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BASIN CREATED BY EXCAVATING AN AREA, DAMMING CONCENTRATED FLOW, OR A COMBINATION OF BOTH. THE BASIN IS DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER ACRE OF DRAINAGE AREA. THE DRAINAGE AREA SHOULD NOT EXCEED 150 ACRES. BASINS TYPICALLY CONSISTS OF A DAM, PRINCIPAL SPILLWAY, AND AN EMERGENCY SPILLWAY. A FLOATING SURFACE SKIMMER SHALL BE REQUIRED AS PART OF THE PRINCIPAL SPILLWAY UNLESS INFEASIBLE. SUFFICIENT RIGHT-OF-WAY OR EASEMENT IS NEEDED FOR BASIN CONSTRUCTION AND MAINTENANCE ACCESS. SEDIMENT BASINS SHALL BE CONSIDERED ON ALL PROJECTS, BUT MAY NOT BE PRACTICAL. BASINS SHOULD BE LOCATED TO MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES AND UTILITIES. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL (Sd3)		
Sd4-C	ROCK OUTLET TEMPORARY SEDIMENT TRAP CONSTRUCTION DETAIL D-53 SECTION 163		TEMPORARY POND WITH ROCK OUTLET DESIGNED TO STORE 67 CUBIC YARDS OF SEDIMENT PER DRAINAGE AREA. DRAINAGE AREA SHALL NOT EXCEED 5 ACRES. DISTINGUISHED FROM TEMPORARY SEDIMENT BASIN BY LACK OF PRINCIPAL SPILLWAY. MAXIMUM POND DEPTH FROM BOTTOM OF POND TO EMERGENCY SPILLWAY IS 4 FEET. A TEMPORARY SEDIMENT BASIN SHALL BE EVALUATED PRIOR TO CONSIDERING A TEMPORARY SEDIMENT TRAP. A TEMPORARY SEDIMENT TRAP IS IDEAL FOR SMALL AREAS WITH NO UNUSUAL DRAINAGE FEATURES AND EFFECTIVE AGAINST COARSE SEDIMENT, BUT NOT AGAINST SILT OR CLAY PARTICLES THAT REMAIN SUSPENDED. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR DESIGN CRITERIA.
	SYMBOL (Sd4-C)		
Sk	FLOATING SURFACE SKIMMER CONSTRUCTION DETAIL D-22A, D-22B SECTION 163		A BUOYANT DEVICE THAT DRAINS WATER FROM THE SURFACE OF A TEMPORARY SEDIMENT BASIN AT A CONTROLLED FLOW RATE. THE INLET/ORIFICE SIZE IS DESIGNED TO DRAIN THE BASIN WITHIN 24 - 48 HOURS. THE SKIMMER INFORMATION SHALL BE PROVIDED IN CONJUNCTION WITH THE SEDIMENT BASIN INFORMATION IN PLANS. IF A SKIMMER IS INFEASIBLE, THE DESIGNER SHALL PROVIDE A WRITTEN JUSTIFICATION IN THE PLANS. SKIMMERS ARE ATTACHED TO A RISER WITHOUT PERFORATIONS AND ACTS AS THE PRIMARY SPILLWAY. THE SKIMMER BMP SYMBOL SHALL BE SHOWN IN CONJUNCTION WITH THE TEMPORARY SEDIMENT BASIN BMP SYMBOL WHEN APPLICABLE. REFER TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" FOR ADDITIONAL INFORMATION.
	SYMBOL (Sk)		
Sr	TEMPORARY STREAM CROSSING SECTION 107		A TEMPORARY STRUCTURE INSTALLED ACROSS A FLOWING STREAM OR WATERCOURSE FOR USE BY CONSTRUCTION EQUIPMENT. THIS BMP PROVIDES A MEANS TO CROSS STREAMS OR WATERCOURSES WITHOUT MOVING SEDIMENT INTO STREAMS, DAMAGING THE STREAM BED OR CHANNEL, OR CAUSING FLOODING. THIS BMP SHOULD NOT BE USED ON STREAMS WITH DRAINAGE AREAS GREATER THAN ONE SQUARE MILE, UNLESS SPECIFICALLY DESIGNED TO ACCOMMODATE THE ADDITIONAL DRAINAGE AREA BY THE DESIGN PROFESSIONAL. A CERTIFICATION STATEMENT AND SIGNATURE SHALL ACCOMPANY THE DESIGN. THIS BMP SHALL BE DESIGNED ACCORDING TO THE LATEST EDITION OF THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". FOR CONTRACTOR'S USE ONLY!
	SYMBOL (Sr)		

NOTE:

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- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA".

PLANS PREPARED AND SUBMITTED BY:

 65 Aberdeen Drive, Douglasville, GA 30135 (770) 551-7220
 2500 Nelson Miller Parkway, Louisville, KY 40223 (502) 245-3815
 AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT

SUBMITTED BY:



7/27/21
 George W. Carroll

George W. Carroll, P.E.

0000093599

GSWCC LEVEL II Certification Number

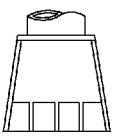

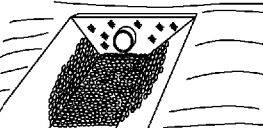


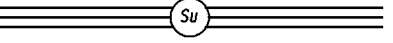
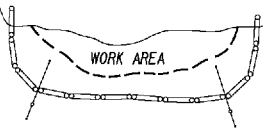
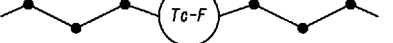
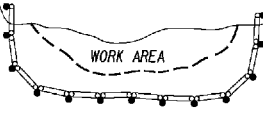
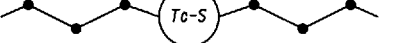
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REVISION DATES	
03/02/2017	
11/28/2018	

EROSION CONTROL LEGEND

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	52-0006

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332		A PIPE OR BOX CULVERT OUTLET HEADWALL WITH AN APRON AND DISSIPATOR BLOCKS IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. 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 OF THE 25-YEAR STORM IS 12 fps AND GREATER.
		SYMBOL 	
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603		RIP-RAP OUTLET PROTECTION IS USED TO REDUCE VELOCITY AT THE OUTLET OF A PIPE, CHANNEL, OR STRUCTURE PRIOR TO ENTERING AN EXISTING STREAM OR PUBLICLY MAINTAINED DRAINAGE SYSTEM. THE MINIMUM DESIGN OF RIP-RAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM PEAK FLOW, BUT LARGER STORMS ARE RECOMMENDED. TYPE-1 RIP-RAP AT A DEPTH OF 36" AND PLACED ON FILTER FABRIC IS PREFERRED FOR ALL d50 </- 1.2 FEET. TYPE-3 RIP-RAP AT A DEPTH OF 18" AND PLACED ON FILTER FABRIC MAY BE USED FOR d50 </- 0.7 FEET. REFER TO THE LATEST EDITION OF THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA' FOR REQUIRED DESIGN DIMENSIONS AND OTHER INFORMATION TO BE INCLUDED IN THE PLANS.
		PATTERN 	
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205		PROVIDING A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS, BY OPERATING A CLEATED DOZER ON THE SLOPE IN A VERTICAL DIRECTION. CREATING SERRATED SLOPES IN THE GRADING PROCESS TO CONSTRUCT BENCHES WILL REDUCE RUNOFF VELOCITY AND INCREASE INFILTRATION OF WATER. IN MOST CASES THIS BMP IS NOT REQUIRED TO BE SHOWN ON THE PLANS, BUT REQUIRED TO BE COMPLETED BY THE CONTRACTOR UNDER ALL PROJECTS. IF SERRATED SLOPES ARE SPECIFIED BY THE SOIL SURVEY, THEN THIS BMP SHALL BE SHOWN ON THE PLANS WHERE SERRATED SLOPES ARE TO BE USED.
		LINE CODE 	
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170		A FLOATING TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED WHERE CONSTRUCTION IS REQUIRED IN A LARGE BODY OF WATER SUCH AS LAKES AND RIVERS. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY ALSO BE REFERRED TO AS A FLOATING BOOM, SILT BARRIER, OR SILT CURTAIN.
		LINE CODE 	
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170		A STAKED TURBIDITY CURTAIN IS USED TO PREVENT SEDIMENT FROM MOVING IN WATER BY ALLOWING IT TO DROP OUT OF SUSPENSION AND REMAIN WITHIN THE CONSTRUCTION AREA. IT IS TYPICALLY USED IN SHALLOW INUNDATED AREAS. IT MAY BE USED TO PROTECT A SMALL STREAM BEING REALIGNED OR RESTORED. IN THIS CASE, CURTAIN SHOULD EXTEND TO BOTTOM OF STREAMBED. THE HEIGHT SHOULD BE LIMITED TO 5 FEET UNLESS DIRECTED AND EXTEND 2 FEET ABOVE NORMAL WATER ELEVATION. IT SHOULD BE USED AS DIRECTED BY THE ENGINEER. THIS BMP IS ONLY TO BE USED WHEN PERMITTED FILL IS BEING PLACED INTO A STATE WATER, OR AS A SUPPLEMENT TO ADEQUATELY PLACED PERIMETER BMPs. IT MAY BE REFERRED TO AS A SILT BARRIER OR SILT CURTAIN.
		LINE CODE 	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION



7/27/21

George Carroll

SUBMITTED BY:

George W. Carroll, P.E.

0000093599

GSWCC LEVEL II Certification Number

NOTE:

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- FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), REFER TO THE LATEST EDITION OF THE GEORGIA SOIL AND WATER CONSERVATION COMMISSION'S, 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'.

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

PROFESSIONAL ENGINEERING

OFFICE:
65 Aberdeen Drive
Columbus, GA 31906
(706) 551-7220

BRANNON ROAD OFFICE:
560 Acworth Landing Drive
Acworth, GA 30002
(770) 421-8422

2500 Nelson Miller Parkway
Louisville, KY 40223
(502) 245-3815

REVISION DATES	
03/02/2017	

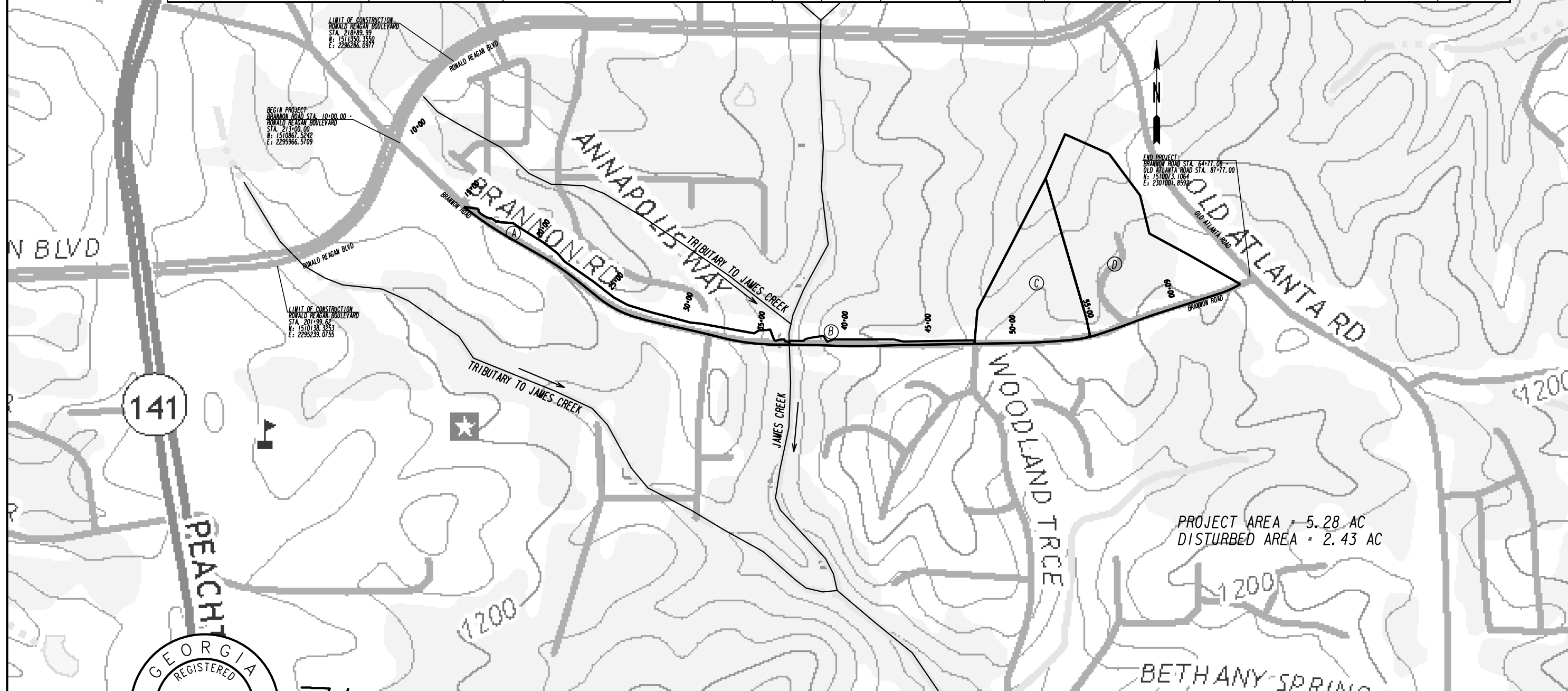
EROSION CONTROL LEGEND

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	52-0007
CORRECTED:	DATE:	
VERIFIED:	DATE:	

NTS

Structure	Outfall Slope (ft/ft)	Receiving Waters	C pre	C post	Q50pre (cfs)	Q50post (cfs)	Q100pre (cfs)	Q100post (cfs)	V50pre (ft/s)	V50post (ft/s)	V100pre (ft/s)	V100post (ft/s)
24" RCP	0.0224	JAMES CREEK	0.45	0.48	6.94	7.43	8.41	8.55	2.25	2.37	2.60	2.72
18" RCP	0.0649	JAMES CREEK	0.61	0.63	2.84	3.03	3.22	3.46	1.64	1.72	1.86	1.96
18" RCP	0.0387	UNNAMED TRIBUTARY OF JAMES CREEK	0.26	0.26	9.10	9.18	10.15	10.22	5.18	5.20	5.77	5.79
18" RCP	0.0174	UNNAMED TRIBUTARY OF JAMES CREEK	0.26	0.26	10.72	10.80	11.96	12.02	6.09	6.11	6.77	6.80
Sheet Flow	N/A	UNNAMED TRIBUTARY OF JAMES CREEK	0.82	0.84	6.64	6.80	7.38	7.56	N/A	N/A	N/A	N/A
Sheet Flow	N/A	UNNAMED TRIBUTARY OF JAMES CREEK	0.74	0.74	0.90	0.90	1.04	1.04	N/A	N/A	N/A	N/A
Sheet Flow	N/A	UNNAMED TRIBUTARY OF JAMES CREEK	0.42	0.42	8.62	8.62	12.62	12.62	N/A	N/A	N/A	N/A
Sheet Flow	N/A	UNNAMED TRIBUTARY OF JAMES CREEK	0.85	0.87	8.19	8.38	9.10	9.31	N/A	N/A	N/A	N/A
Sheet Flow	N/A	UNNAMED TRIBUTARY OF JAMES CREEK	0.80	0.90	4.41	4.96	4.90	5.51	N/A	N/A	N/A	N/A

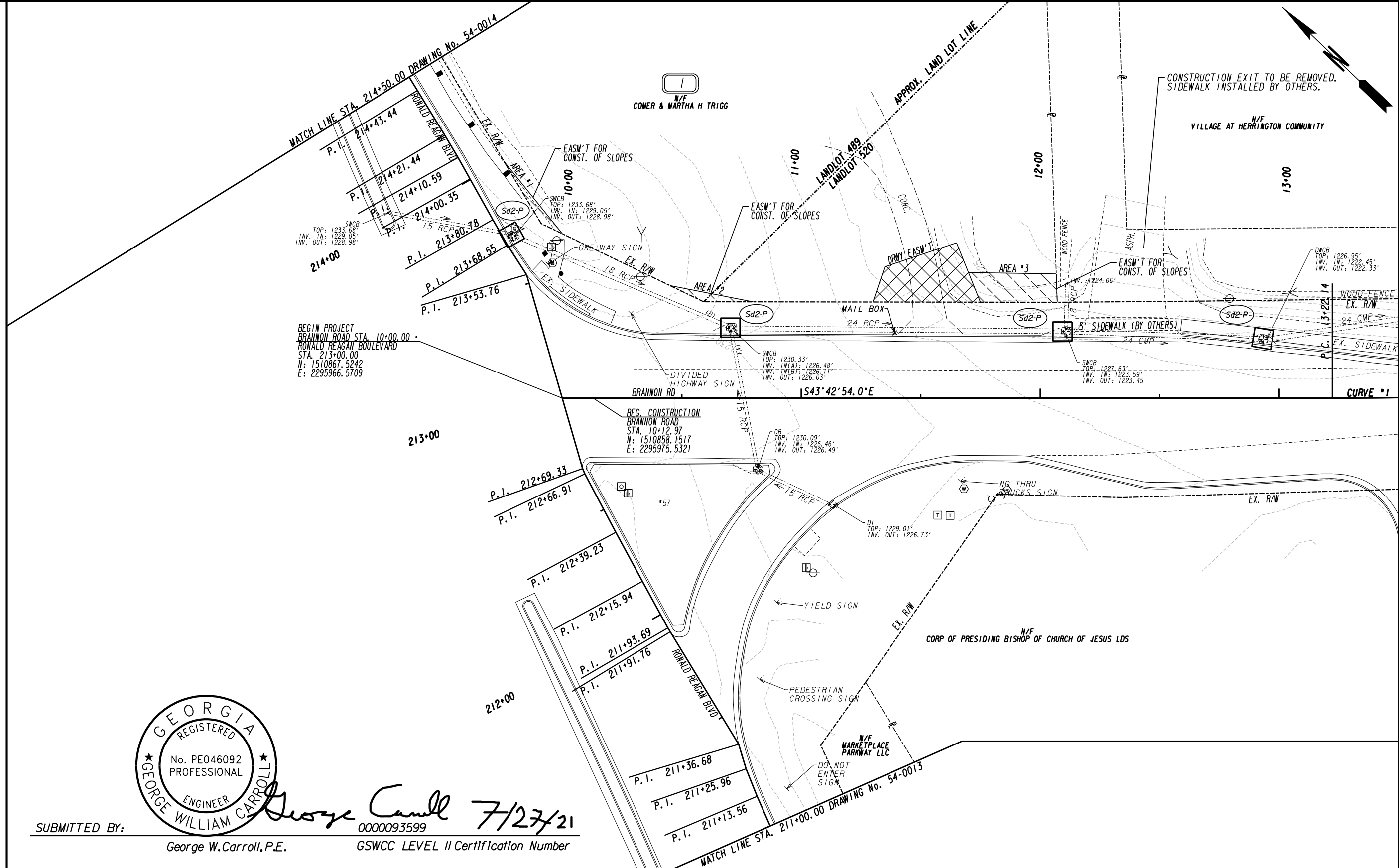


7/27/21
 SUBMITTED BY: *George Carroll*
 George W. Carroll, P.E. 0000093599
 GSWCC LEVEL II Certification Number

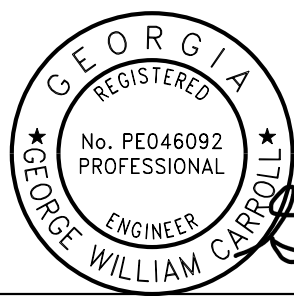
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REVISION DATES		EROSION CONTROL DRAINAGE AREA MAP	
CHECKED:	DATE:	BRANNON ROAD	
BACKCHECKED:	DATE:	DRAWING No.	
CORRECTED:	DATE:	53-0001	
VERIFIED:	DATE:		



MATCH LINE STA. 13+50.00 DRAWING NO. 54-0002



SUBMITTED BY: *George Carroll* 7/27/21
 George W. Carroll, P.E. 0000093599
 GSWCC LEVEL II Certification Number

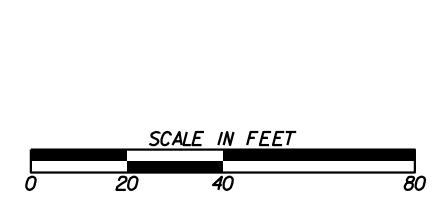
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REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	-----g-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----h-----
EASEMENT FOR CONSTR OF SLOPES	-----i-----
EASEMENT FOR CONSTR OF DRIVES	-----j-----

BEGIN LIMIT OF ACCESS.....BLA	-----k-----
END LIMIT OF ACCESS.....ELA	-----l-----
REQ'D LIMIT OF ACCESS	-----m-----
REQ'D LIMIT OF ACCESS & R/W	-----n-----
ORANGE BARRIER FENCE	-----o-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----p-----

PLANS PREPARED AND SUBMITTED BY:

AEI
 AMERICAN ENGINEERS, INC.
 65 Aberdeen Drive, Glasgow, KY 40246 (270) 651-7220
 5160 Acworth Landing Drive, Acworth, GA 30092 (770) 421-8422
 2500 Nelson Miller Parkway, Louisville, KY 40223 (502) 245-3883

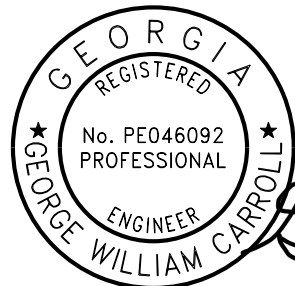
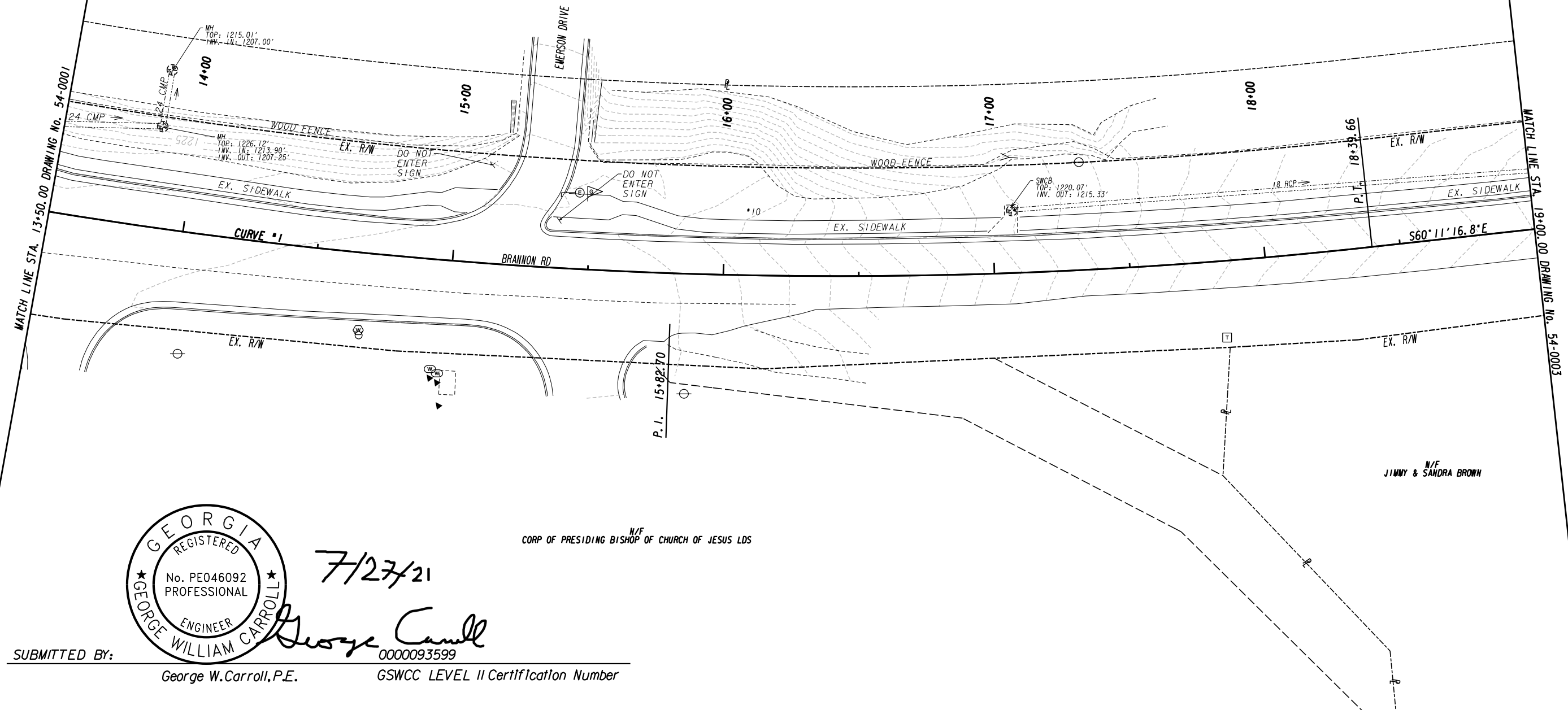
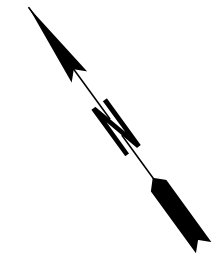
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REVISION DATES	

BMP LOCATION DETAILS STAGE 1A			
BRANNON ROAD			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			54-0001

N/F
VILLAGE AT HERRINGTON COMMUNITY



7/27/21

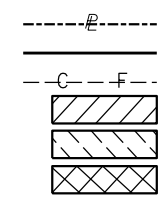
George Carroll
0000093599

SUBMITTED BY: George W. Carroll, P.E. GSWCC LEVEL II Certification Number

N/F
CORP OF PRESIDING BISHOP OF CHURCH OF JESUS LDS

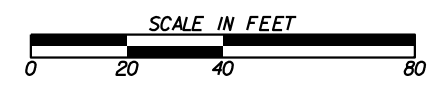
N/F
JIMMY & SANDRA BROWN

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
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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

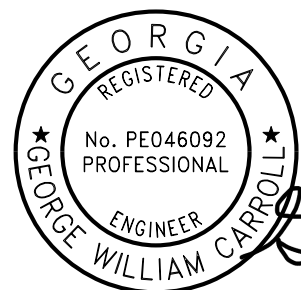
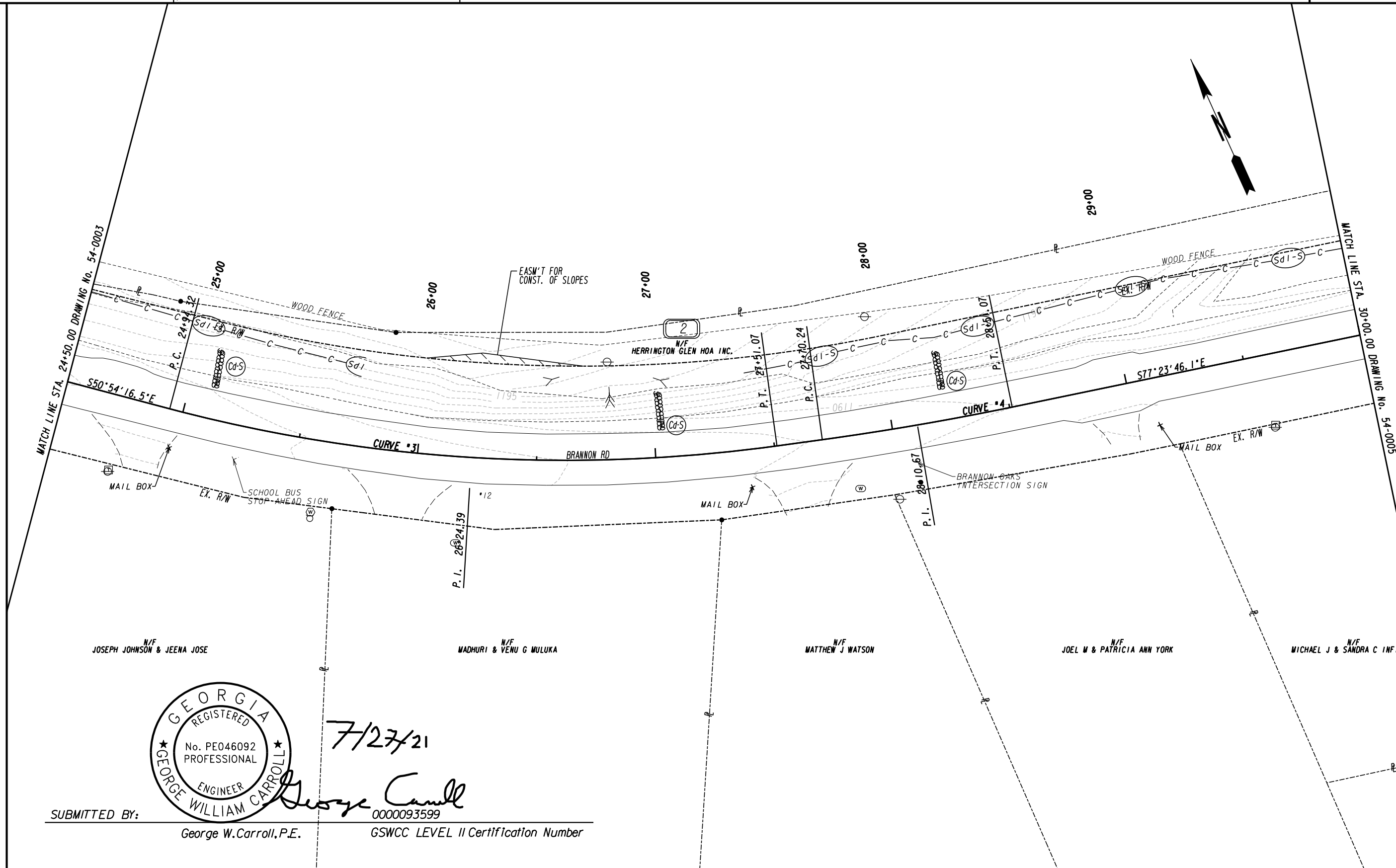


REVISION DATES

NO.	DATE	DESCRIPTION

BMP LOCATION DETAILS
STAGE 1A
BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
		54-0002
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



7/27/21

George Carroll

SUBMITTED BY:

George W. Carroll, P.E.

0000093599

GSWCC LEVEL II Certification Number

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	---o---o---
END LIMIT OF ACCESS.....ELA	---o---o---
REQ'D LIMIT OF ACCESS	---o---o---
REQ'D LIMIT OF ACCESS & R/W	---o---o---
ORANGE BARRIER FENCE	---o---o---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---o---o---

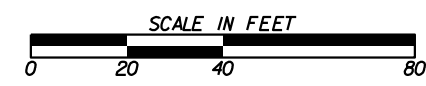
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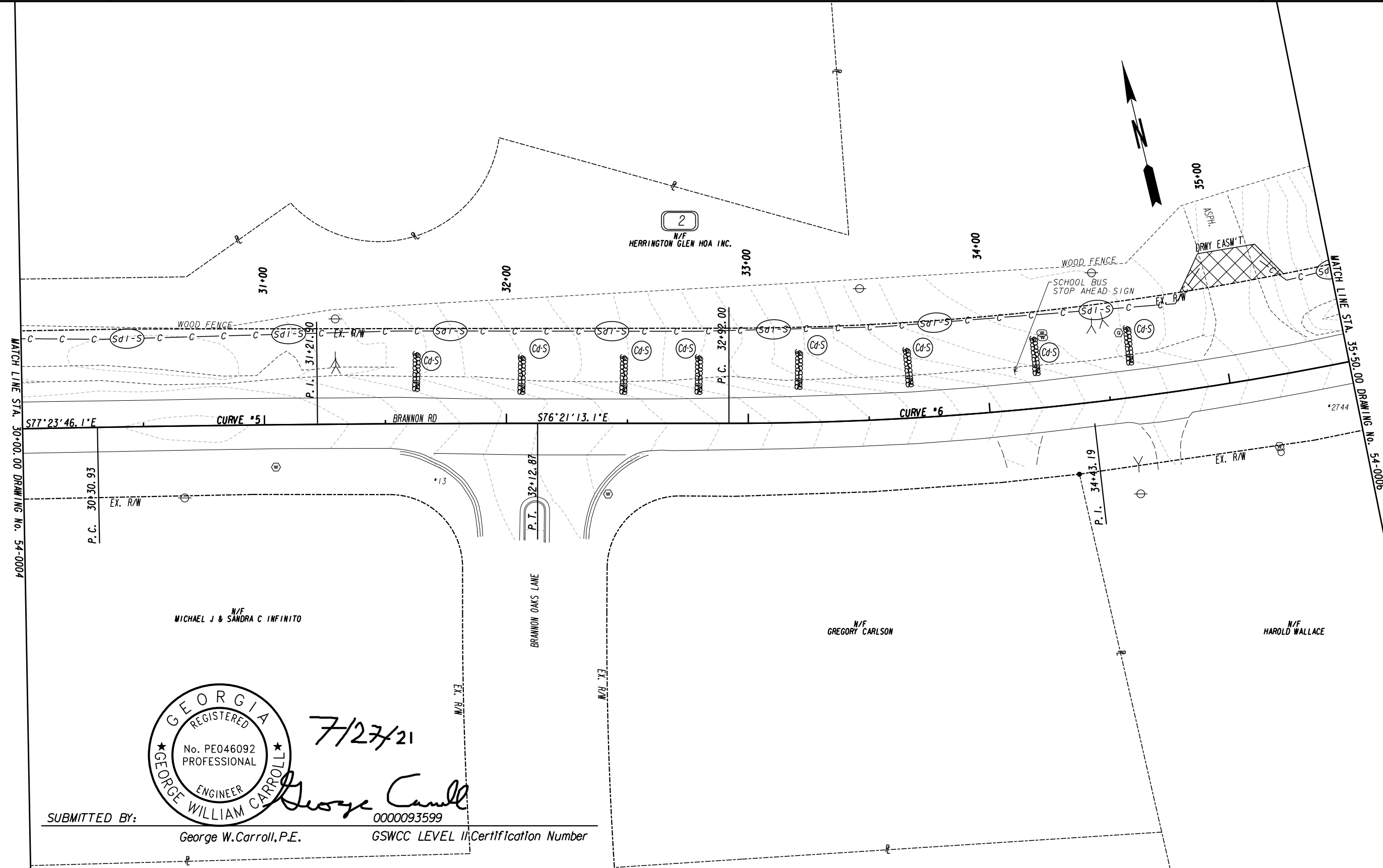
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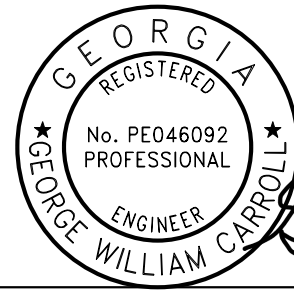


REVISION DATES	

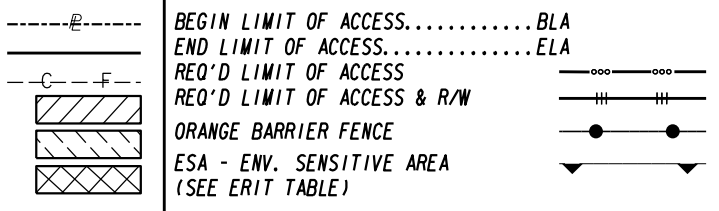
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BRANNON ROAD		
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BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



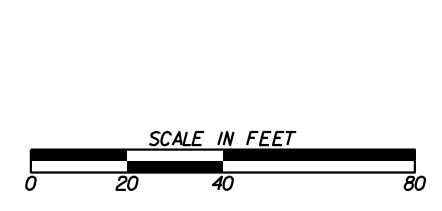
7/27/21
 SUBMITTED BY: **George W. Carroll**
 George W. Carroll, P.E. 0000093599
 GSWCC LEVEL II Certification Number



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

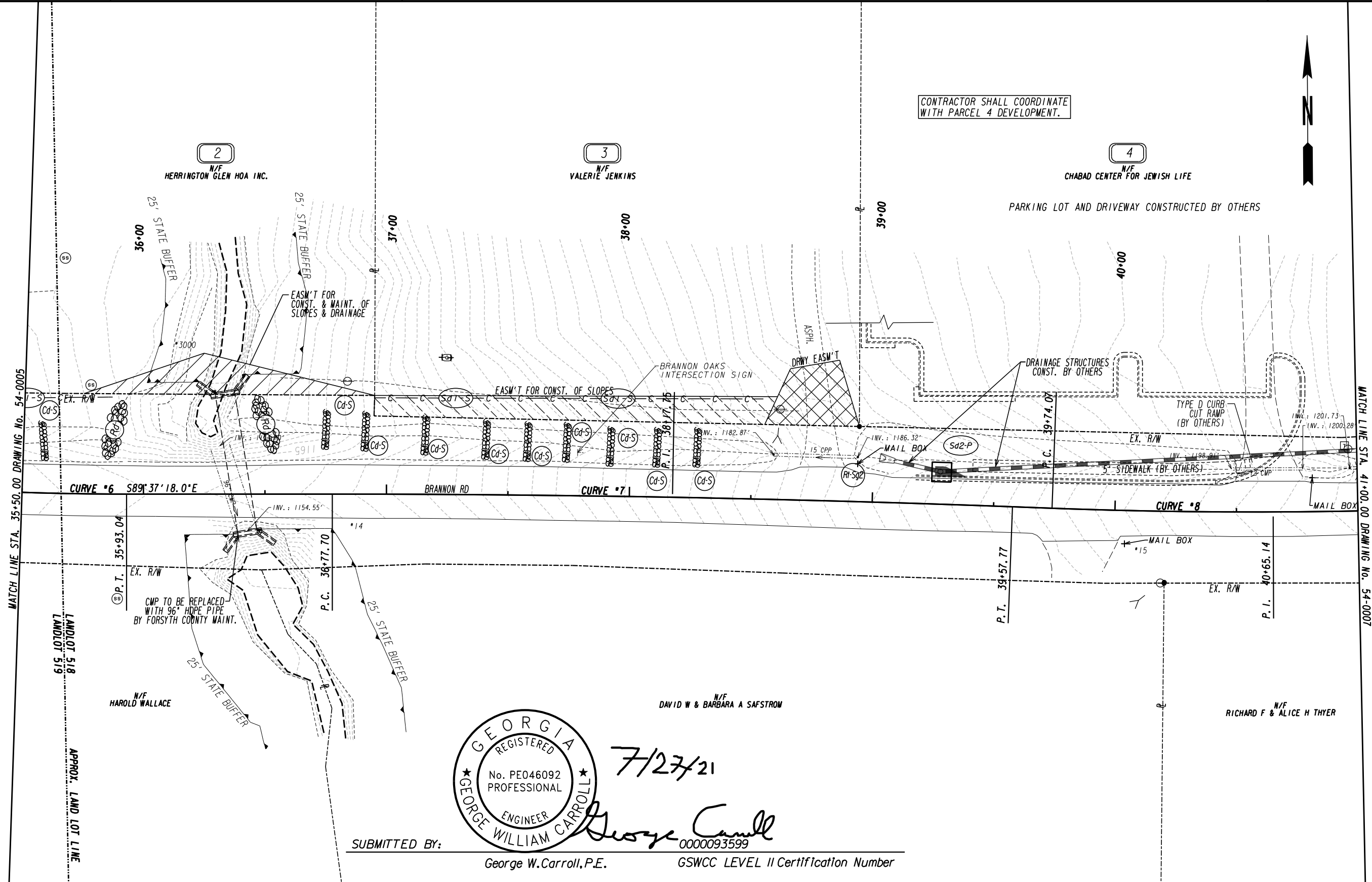


PLANS PREPARED AND SUBMITTED BY:
AEI
 AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT



REVISION DATES	

BMP LOCATION DETAILS STAGE 1A BRANNON ROAD		
CHECKED:	DATE:	DRAWING No. 54-0005
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

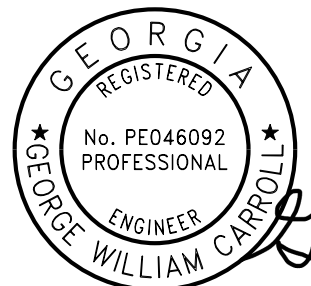


CONTRACTOR SHALL COORDINATE WITH PARCEL 4 DEVELOPMENT.



MATCH LINE STA. 35+50.00 DRAWING No. 54-0005

MATCH LINE STA. 41+00.00 DRAWING No. 54-0007



7/27/21
George W. Carroll
000093599
SUBMITTED BY: George W. Carroll, P.E. GSWCC LEVEL II Certification Number

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	---/---

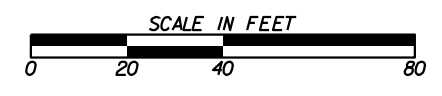
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END LIMIT OF ACCESS.....ELA	---o---o---
REQ'D LIMIT OF ACCESS	---o---o---
REQ'D LIMIT OF ACCESS & R/W	---o---o---
ORANGE BARRIER FENCE	---o---o---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---o---o---

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

2500 Nelson Miller Parkway
Louisville, KY 40223
502-245-3853

5160 Acworth Landing Drive
Acworth, GA 30092
(770) 421-8422



REVISION DATES	

BMP LOCATION DETAILS STAGE 1A		
BRANNON ROAD		
CHECKED: _____	DATE: _____	DRAWING No. 54-0006
BACKCHECKED: _____	DATE: _____	
CORRECTED: _____	DATE: _____	
VERIFIED: _____	DATE: _____	

CONTRACTOR SHALL COORDINATE
WITH PARCEL 4 DEVELOPMENT.

4
N/F
CHABAD CENTER FOR JEWISH LIFE

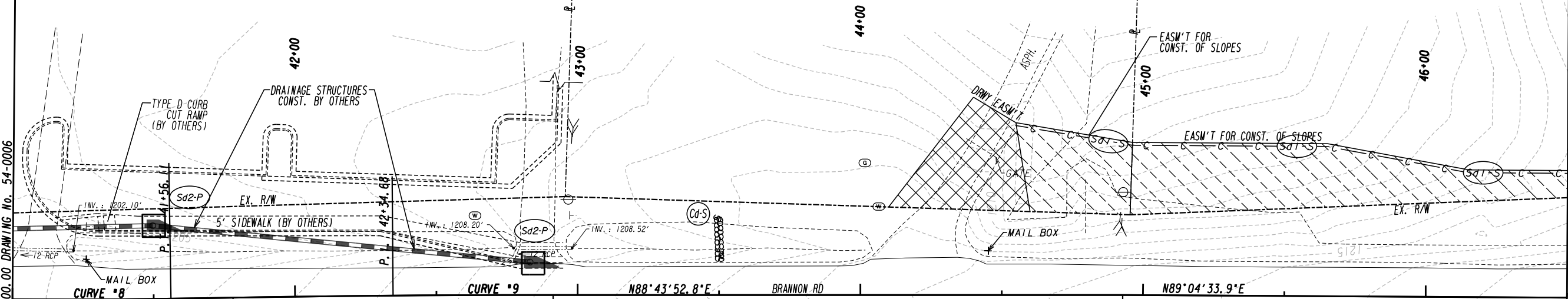
5
N/F
PXBE LLC

6
N/F
DANIEL B & CAROL W THALIMER

PARKING LOT AND DRIVEWAY CONSTRUCTED BY OTHERS

MATCH LINE STA. 41+00.00 DRAWING No. 54-0006

MATCH LINE STA. 46+50.00 DRAWING No. 54-0008



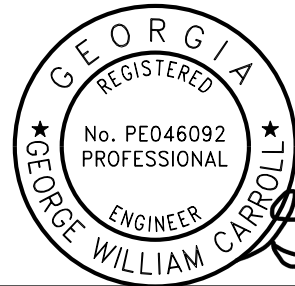
N/F
RICHARD F & ALICE H THYER

N/F
SEAN & JENNIFER WALLACE

N/F
EDWARD & MELISSA LASH

N/F
STEPHEN J & SU S KIM

N/F
CHARLES H JR & PAMELA W HARDY



7/27/21
George W. Carroll
0000093599
GSWCC LEVEL II Certification Number

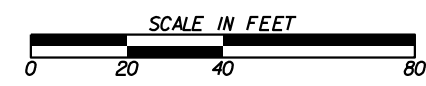
SUBMITTED BY:

George W. Carroll, P.E.

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	▧

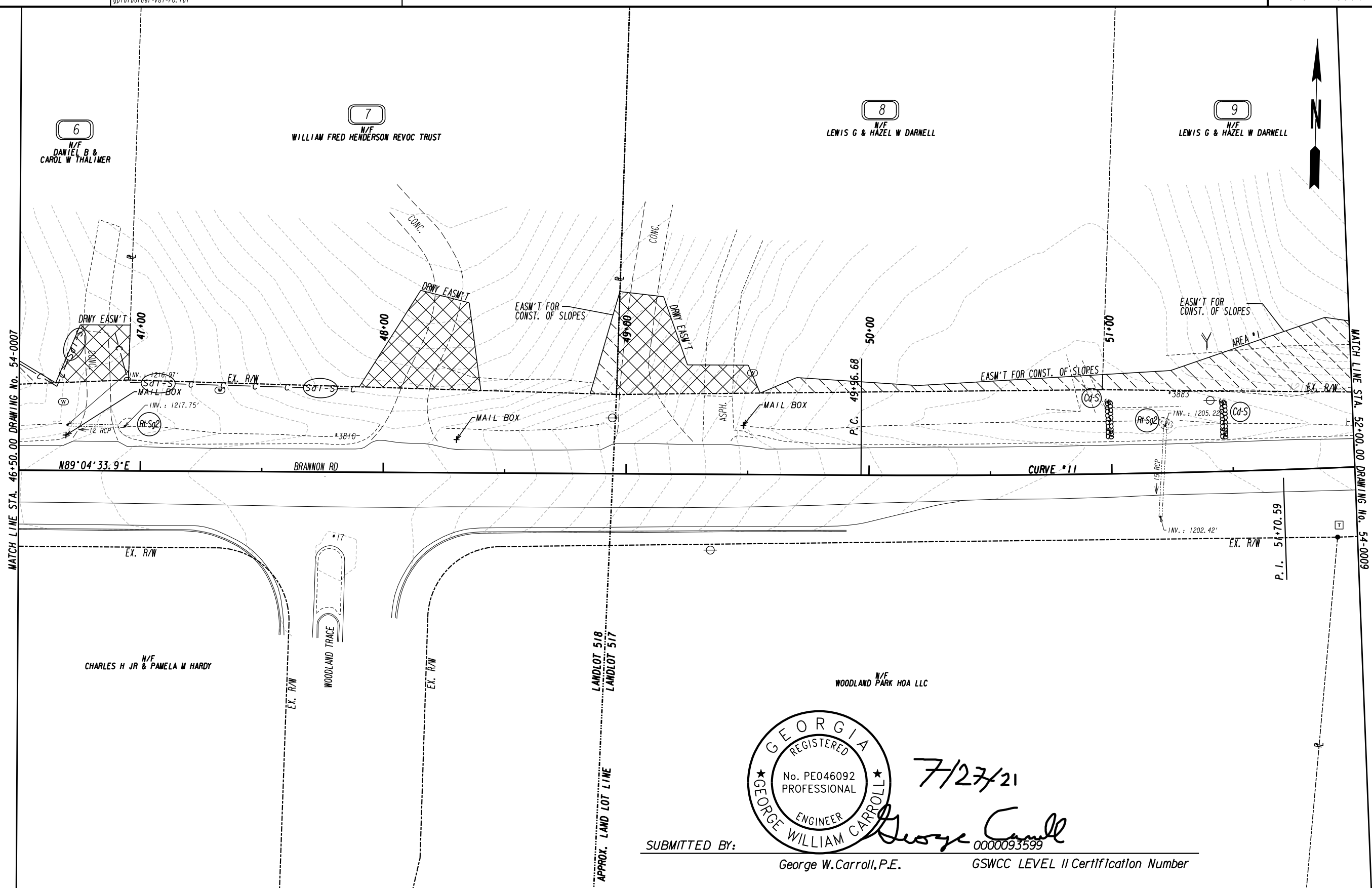
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END LIMIT OF ACCESS.....ELA	—○—
REQ'D LIMIT OF ACCESS	— —
REQ'D LIMIT OF ACCESS & R/W	— —
ORANGE BARRIER FENCE	—●—
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	—▼—

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



REVISION DATES	

BMP LOCATION DETAILS STAGE 1A		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No. 54-0007
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

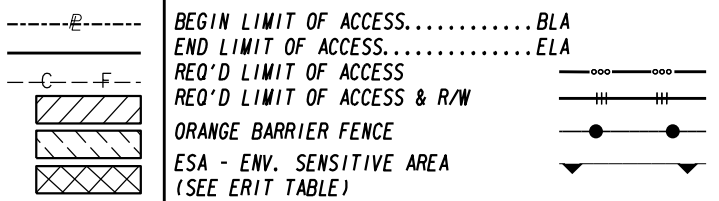


7/27/21

George Carroll
0000093599

SUBMITTED BY: George W. Carroll, P.E. GSWCC LEVEL II Certification Number

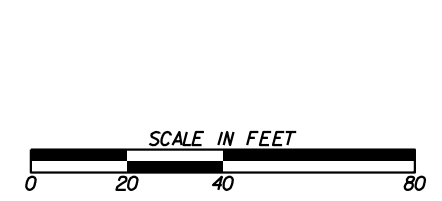
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES



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

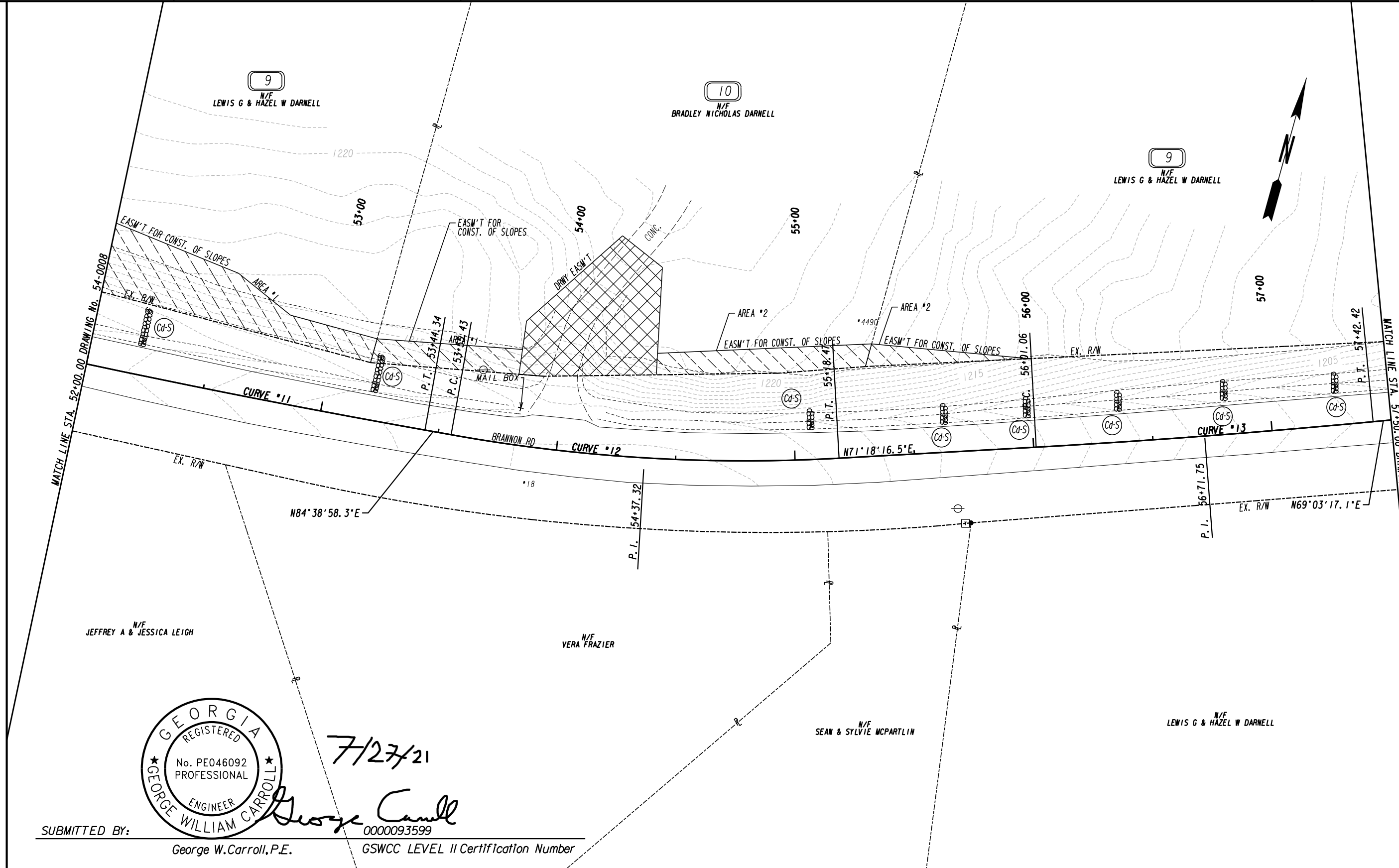
Branch Office:
 5160 Acworth Landing Drive
 Acworth, GA 30092
 (770) 421-8422

2500 Nelson Miller Parkway
 Louisville, KY 40223
 (502) 245-3883



REVISION DATES	

BMP LOCATION DETAILS STAGE 1A		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0008
CORRECTED:	DATE:	
VERIFIED:	DATE:	



7/27/21
George Carroll
0000093599
GSWCC LEVEL II Certification Number

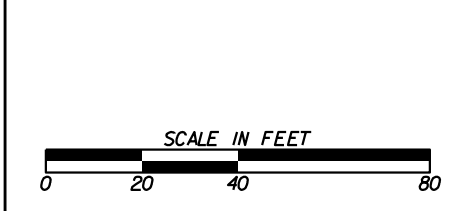
SUBMITTED BY:
George W. Carroll, P.E.

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	---
REQ'D LIMIT OF ACCESS	---
REQ'D LIMIT OF ACCESS & R/W	---
ORANGE BARRIER FENCE	●
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	▼

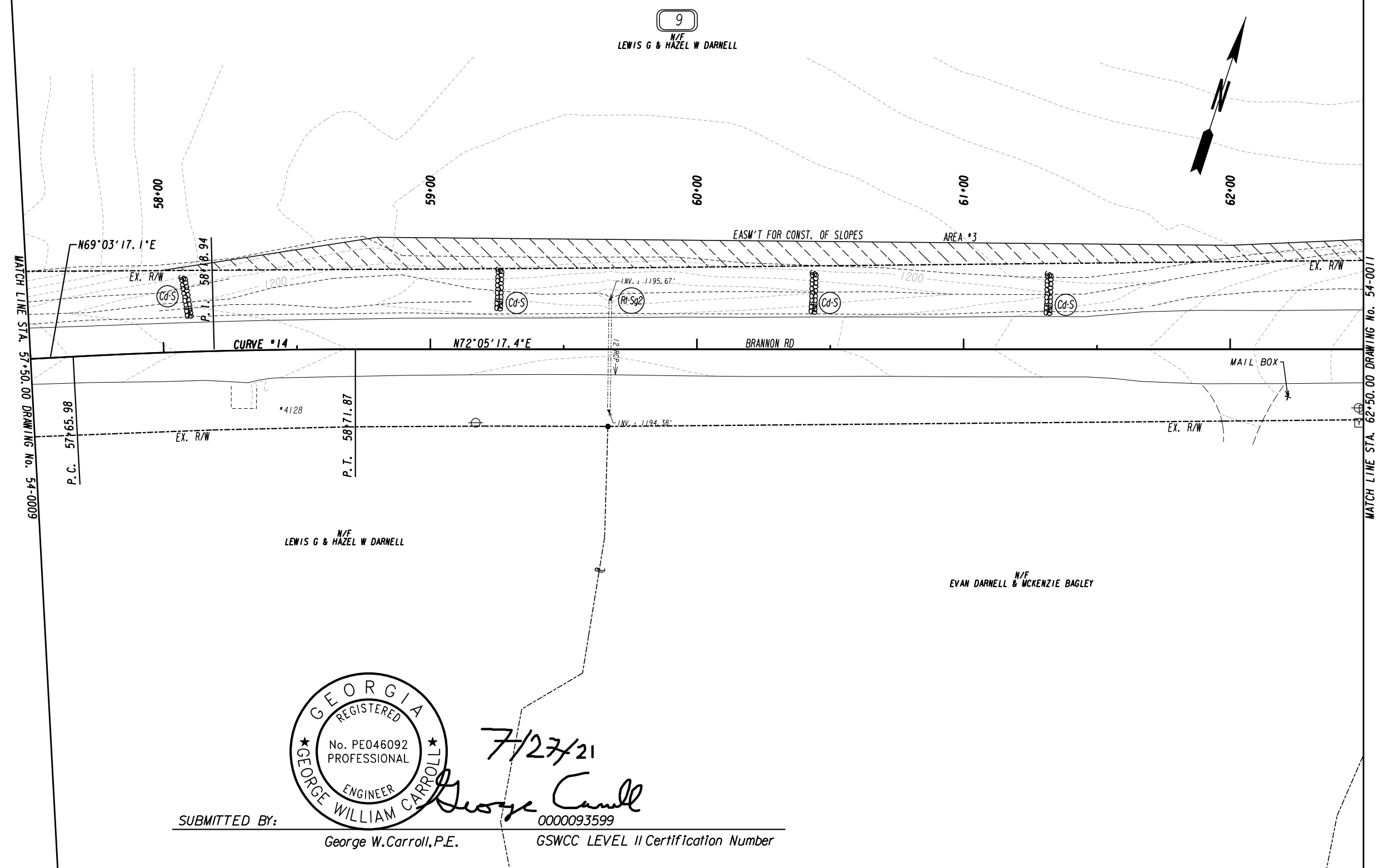
PLANS PREPARED AND SUBMITTED BY:

 AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT
 PROFESSIONAL ENGINEERING



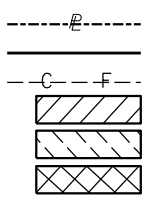
REVISION DATES	

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BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



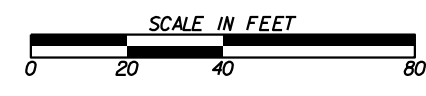
7/27/21
George Carroll
 SUBMITTED BY: George W. Carroll, P.E.
 0000093599
 GSWCC LEVEL II Certification Number

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



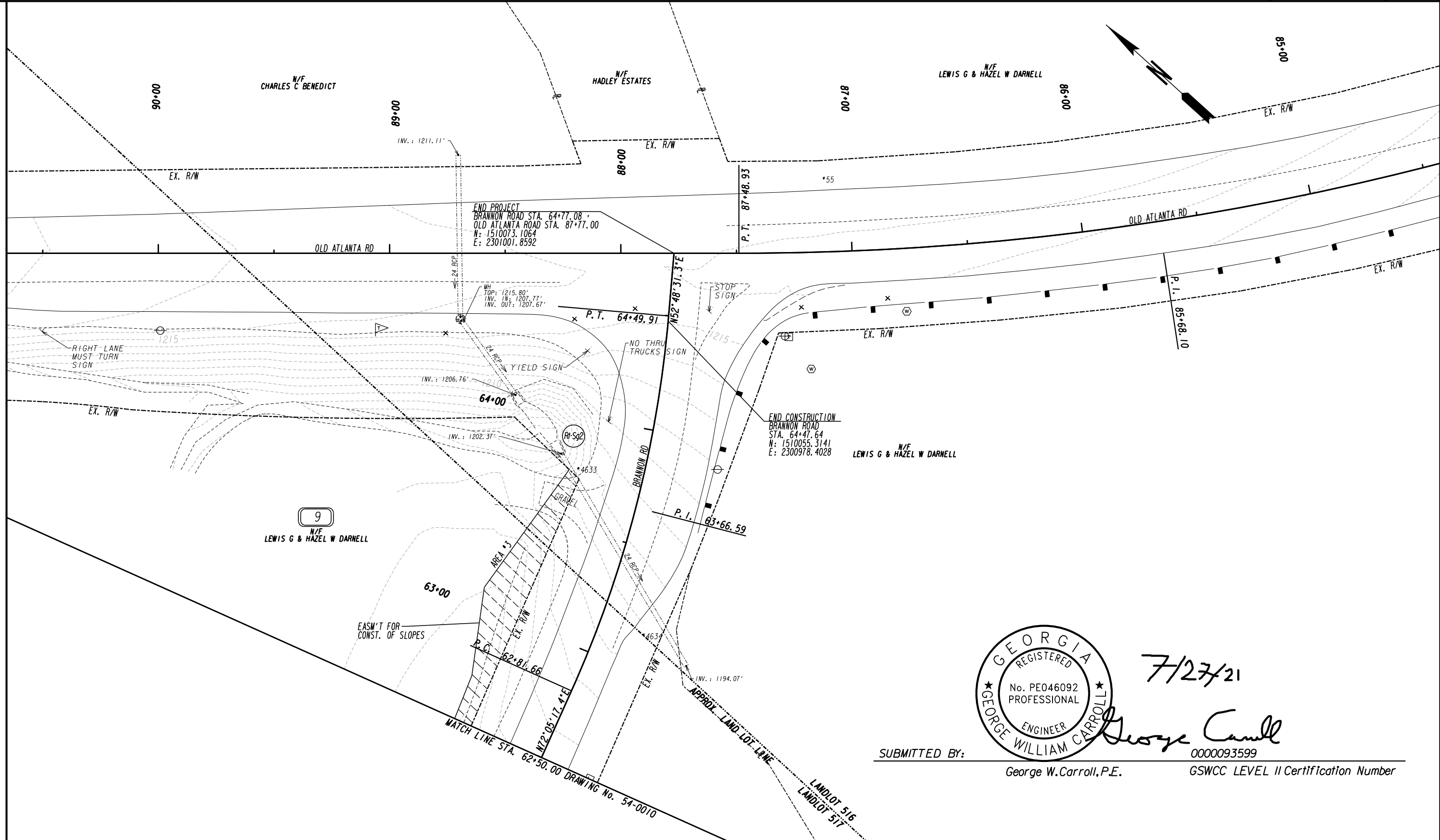
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 END LIMIT OF ACCESS.....ELA
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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



REVISION DATES	

BMP LOCATION DETAILS STAGE 1A		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0010
CORRECTED:	DATE:	
VERIFIED:	DATE:	



7/27/21

George Carroll

SUBMITTED BY: George W. Carroll, P.E.

0000093599
GSWCC LEVEL II Certification Number

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	-----g-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----h-----
EASEMENT FOR CONSTR OF SLOPES	-----i-----
EASEMENT FOR CONSTR OF DRIVES	-----j-----

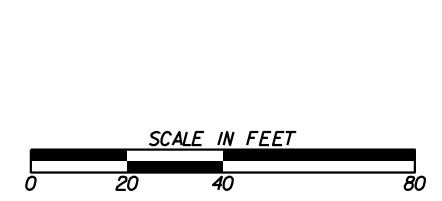
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END LIMIT OF ACCESS.....ELA	-----l-----
REQ'D LIMIT OF ACCESS	-----m-----
REQ'D LIMIT OF ACCESS & R/W	-----n-----
ORANGE BARRIER FENCE	-----o-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----p-----

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

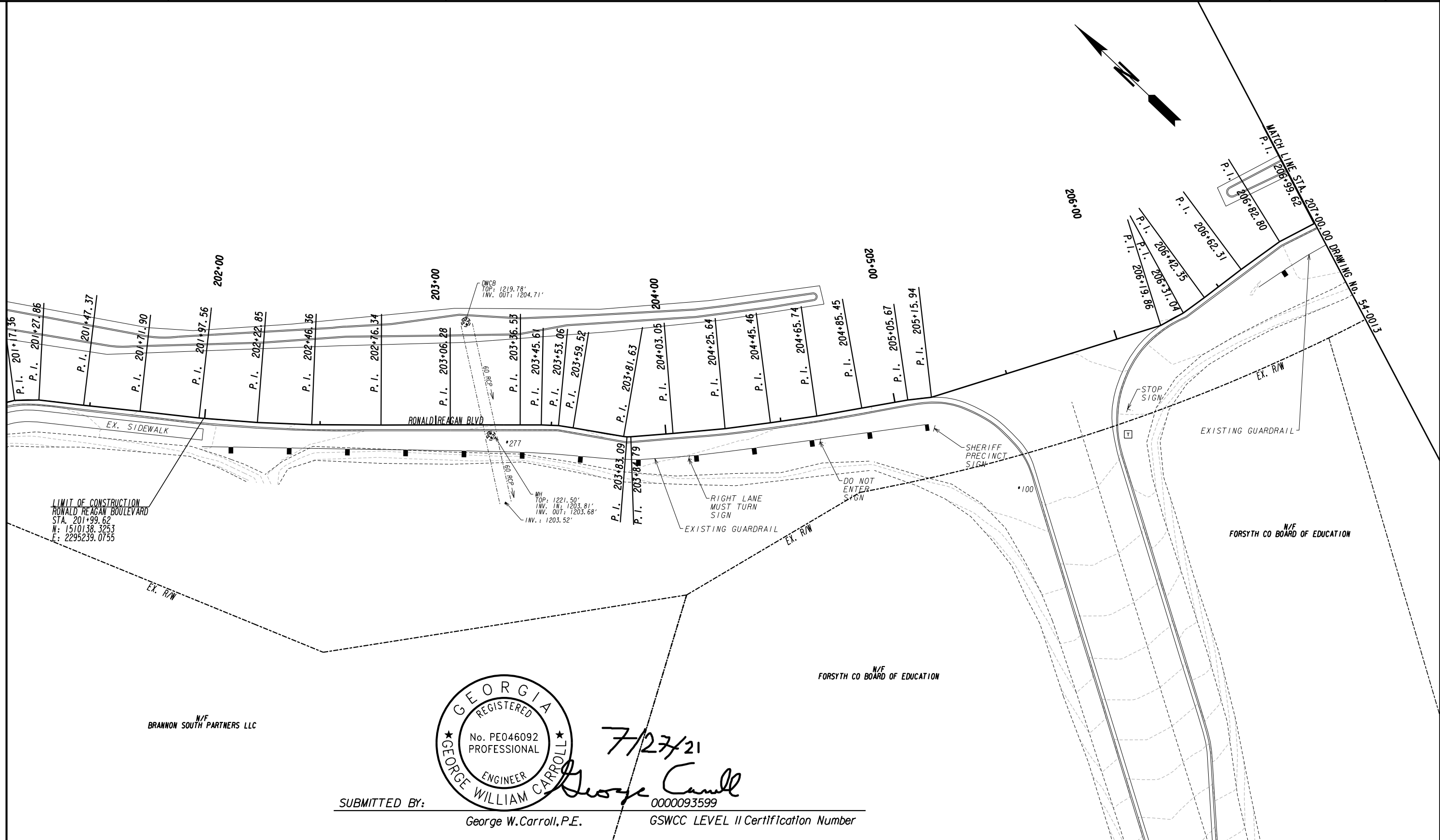
2500 Nelson Miller Parkway
Louisville, KY 40223
502-245-3852

5160 Acworth Landing Drive
Acworth, GA 30006
770-421-8422



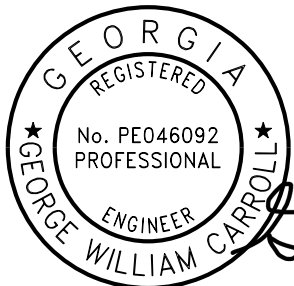
REVISION DATES	

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CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0011
CORRECTED:	DATE:	
VERIFIED:	DATE:	



LIMIT OF CONSTRUCTION
RONALD REAGAN BOULEVARD
STA. 201+99.62
N: 1510138.3253
E: 2295239.0755

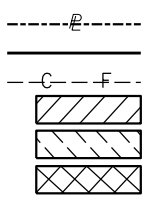
N/F
BRANNON SOUTH PARTNERS LLC



7/27/21
George Carroll
0000093599

SUBMITTED BY: George W. Carroll, P.E. GSWCC LEVEL II Certification Number

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



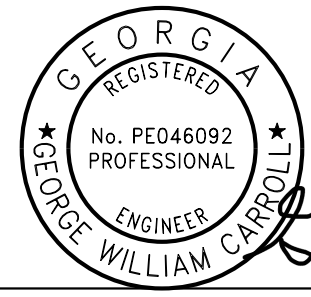
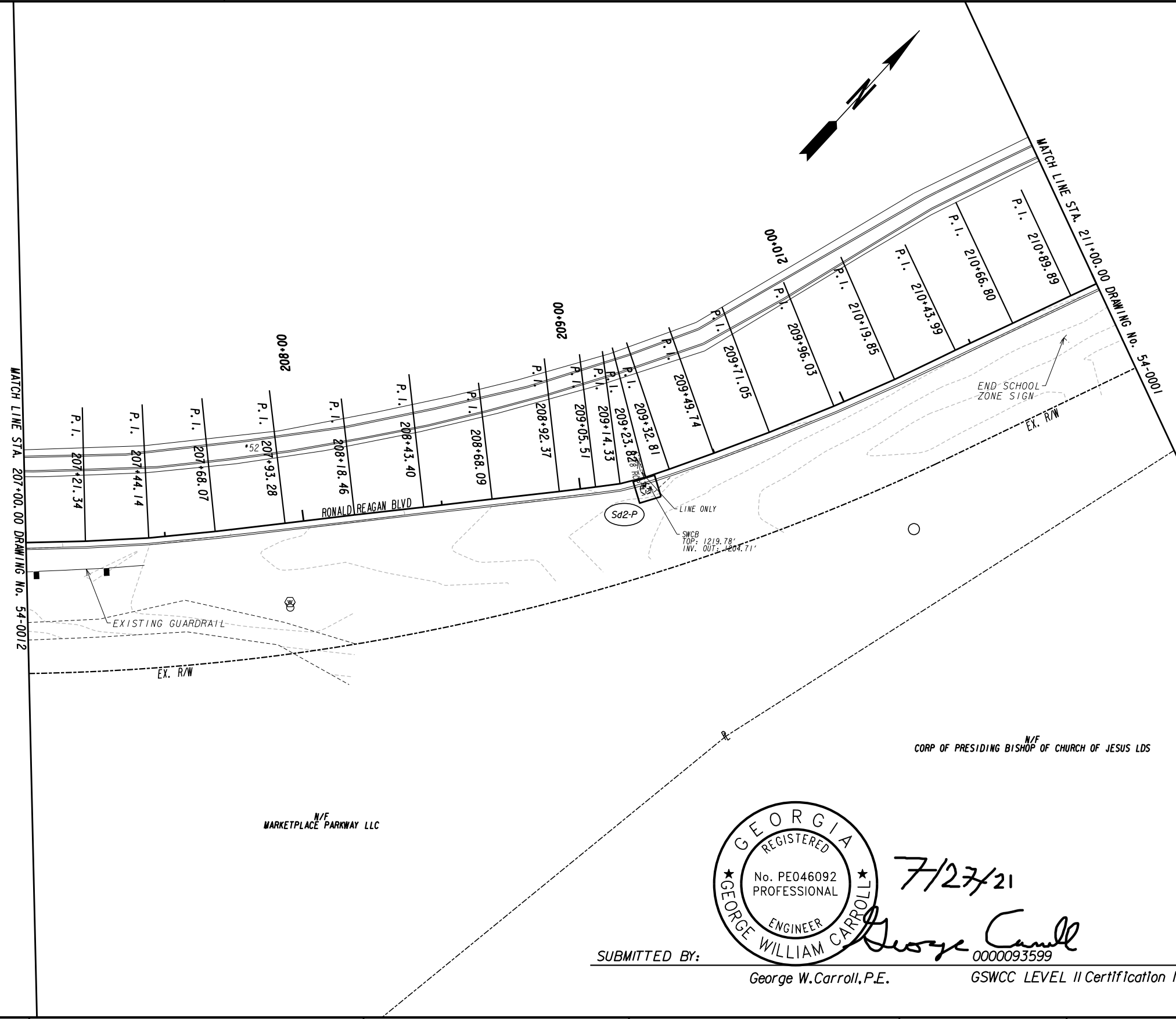
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END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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



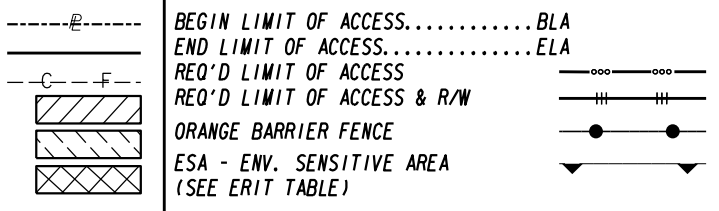
REVISION DATES	

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CORRECTED:	DATE:	
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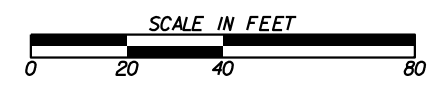


7/27/21
 SUBMITTED BY: *George Carroll*
 George W. Carroll, P.E. 0000093599
 GSWCC LEVEL II Certification Number

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

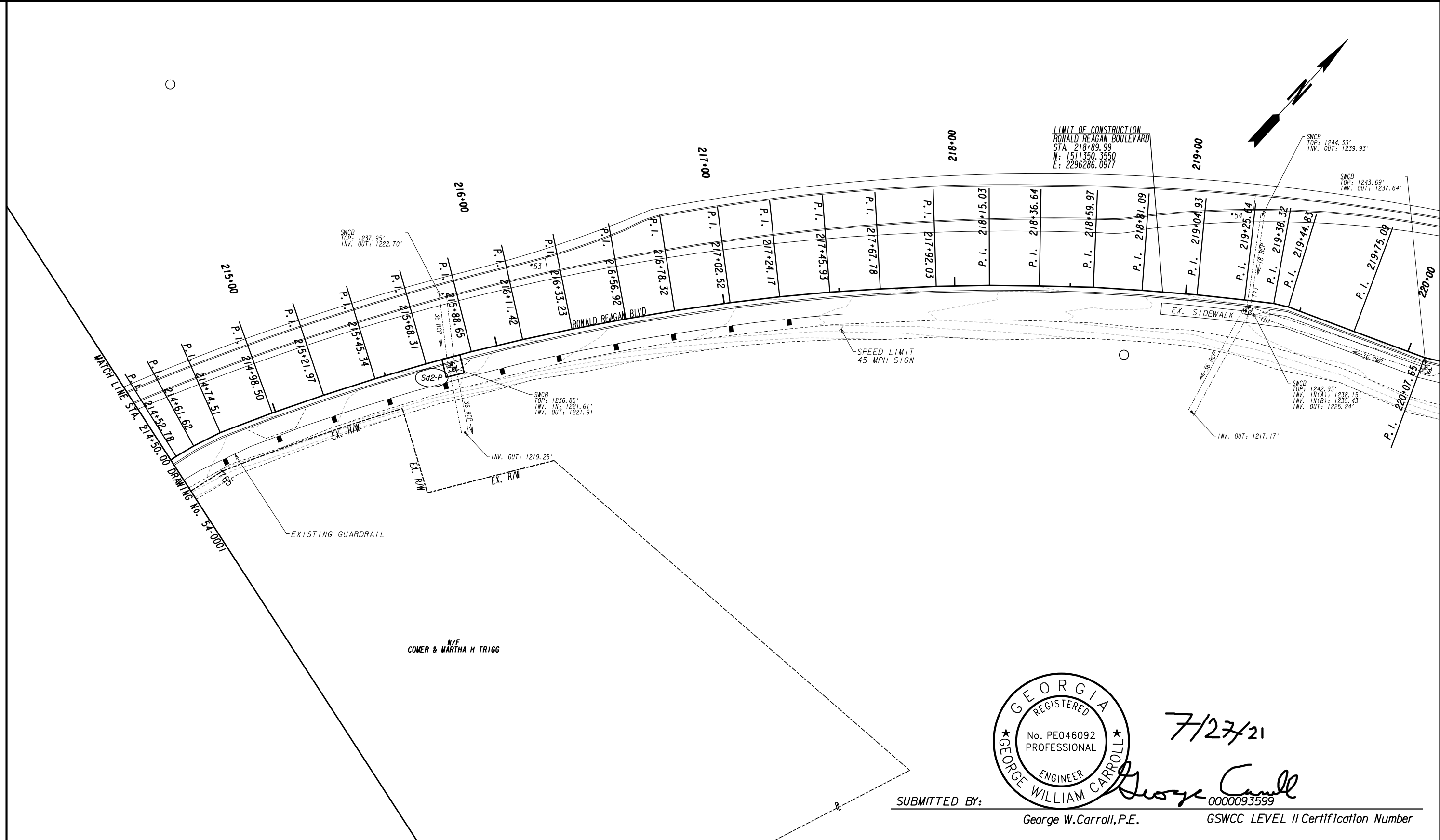


PLANS PREPARED AND SUBMITTED BY:
 AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT
 PROFESSIONAL ENGINEERING



REVISION DATES	

BMP LOCATION DETAILS STAGE 1A		
RONALD REAGAN BOULEVARD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0013
CORRECTED:	DATE:	
VERIFIED:	DATE:	



7/27/21

George Carroll

SUBMITTED BY: George W. Carroll, P.E.

0000093599 GSWCC LEVEL II Certification Number

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	-----g-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----h-----
EASEMENT FOR CONSTR OF SLOPES	-----i-----
EASEMENT FOR CONSTR OF DRIVES	-----j-----

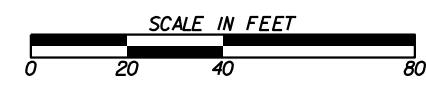
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END LIMIT OF ACCESS.....ELA	-----l-----
REQ'D LIMIT OF ACCESS	-----m-----
REQ'D LIMIT OF ACCESS & R/W	-----n-----
ORANGE BARRIER FENCE	-----o-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----p-----

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

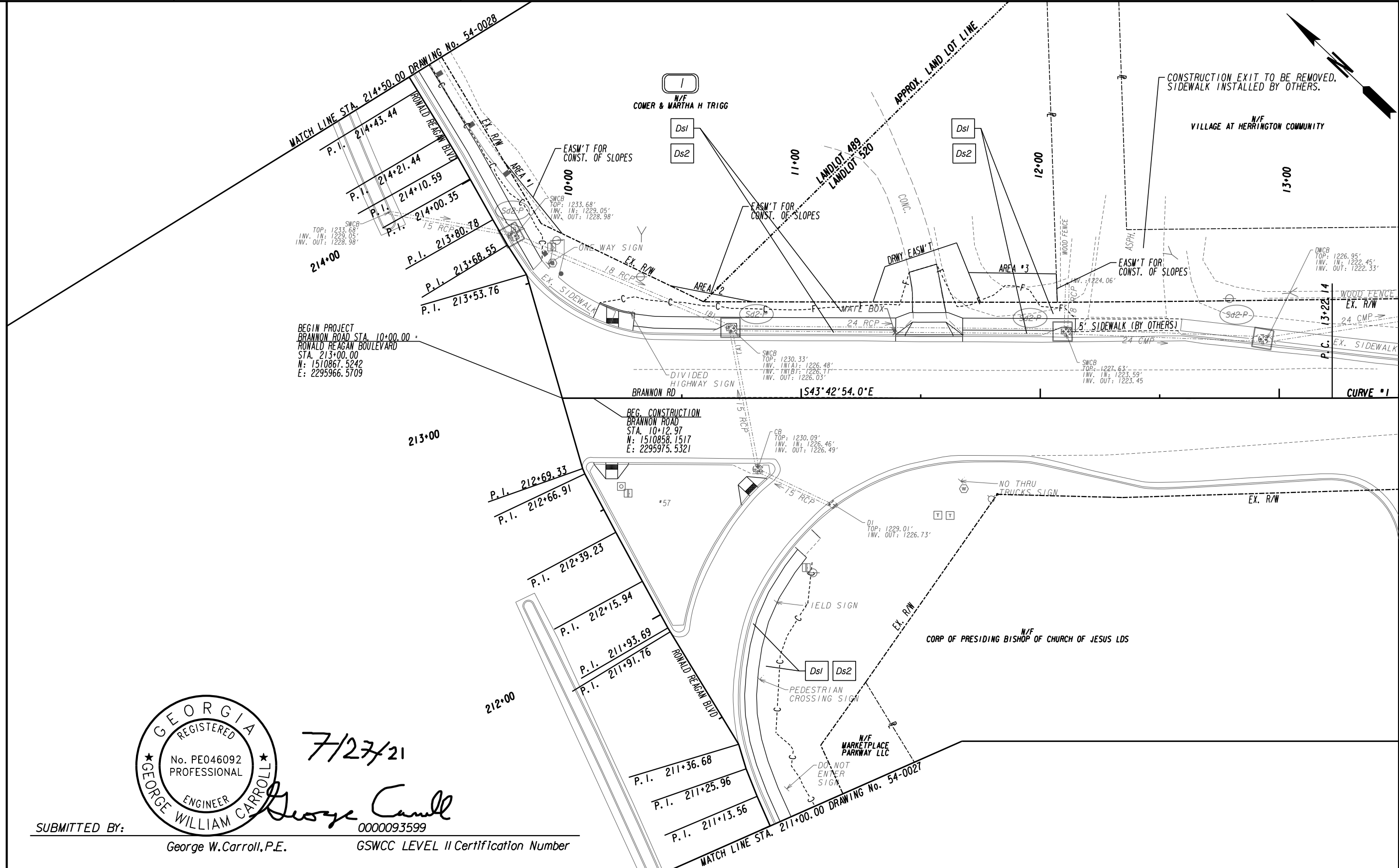
2500 Nelson Miller Parkway
Louisville, KY 40223
502-245-3883

5160 Acworth Landing Drive
Acworth, GA 30006
770-421-8422

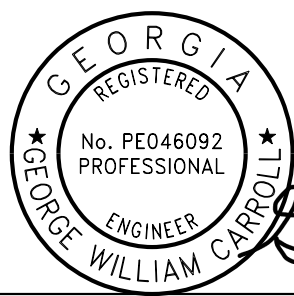


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RONALD REAGAN BOULEVARD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0014
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 13+50.00 DRAWING No. 54-0016



7/27/21

George Carroll
0000093599

SUBMITTED BY: George W. Carroll, P.E. GSWCC LEVEL II Certification Number

PROPERTY AND EXISTING R/W LINE	-----E-----
REQUIRED R/W LINE	-----F-----
CONSTRUCTION LIMITS	-----C-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----S-----
EASEMENT FOR CONSTR OF SLOPES	-----D-----
EASEMENT FOR CONSTR OF DRIVES	-----X-----

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END LIMIT OF ACCESS.....ELA	-----
REQ'D LIMIT OF ACCESS	-----
REQ'D LIMIT OF ACCESS & R/W	-----
ORANGE BARRIER FENCE	-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----

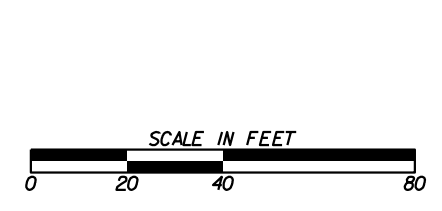
PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

0 65 Aberdeen Drive
Duluth, GA 30096
(770) 651-7220

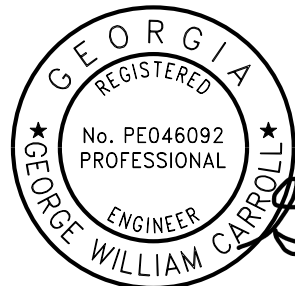
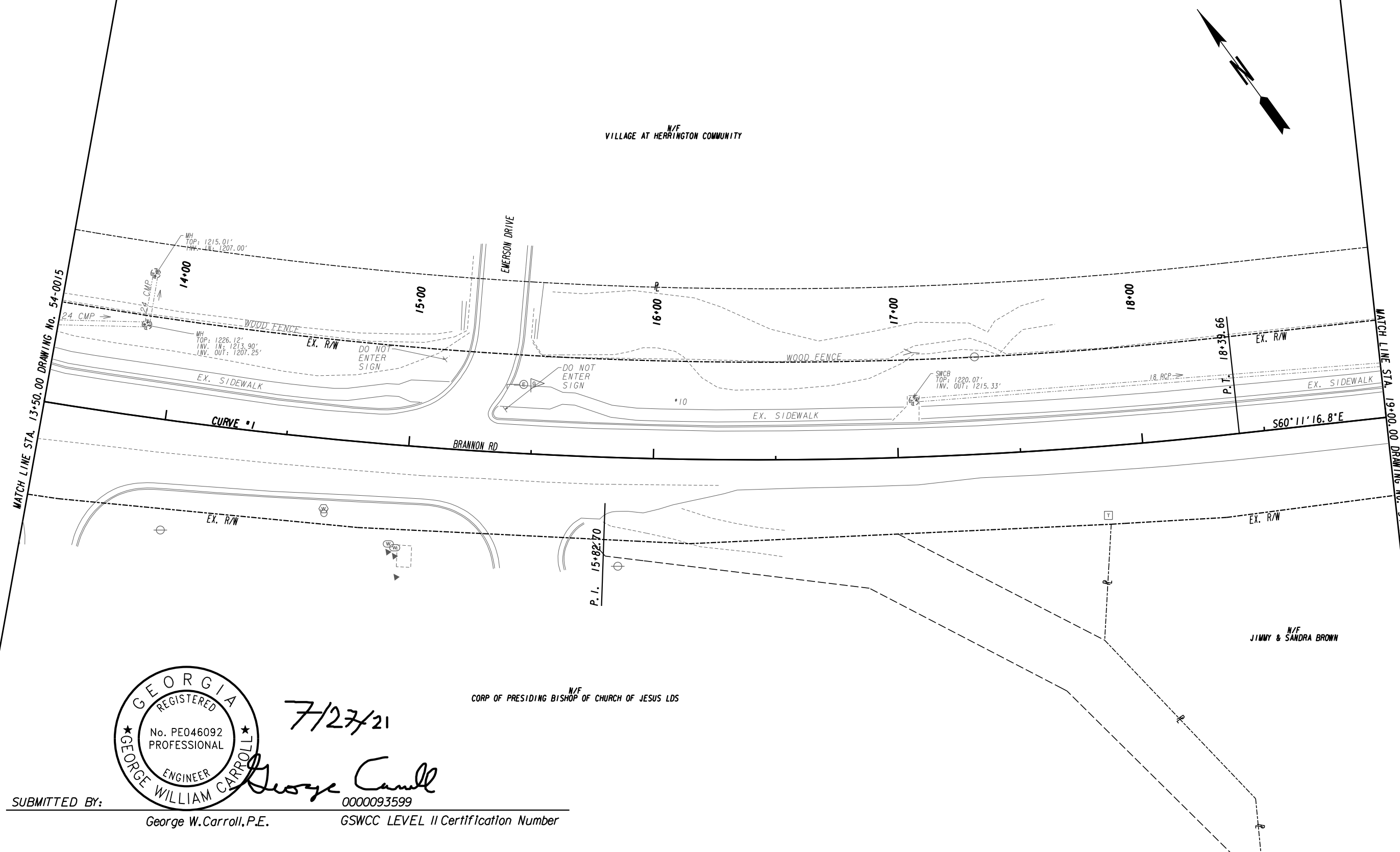
0 2500 Nelson Miller Parkway
Louisville, KY 40223
(502) 245-3853

0 560 Acworth Landing Drive
Acworth, GA 30006
(770) 421-8422



REVISION DATES	

BMP LOCATION DETAILS STAGE I			
BRANNON ROAD			
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	
DRAWING No.			54-0015



7/27/21

George Carroll

SUBMITTED BY:

George W. Carroll, P.E.

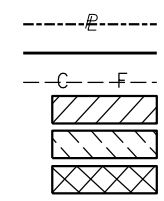
0000093599

GSWCC LEVEL II Certification Number

N/F
CORP OF PRESIDING BISHOP OF CHURCH OF JESUS LDS

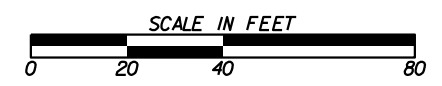
N/F
JIMMY & SANDRA BROWN

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



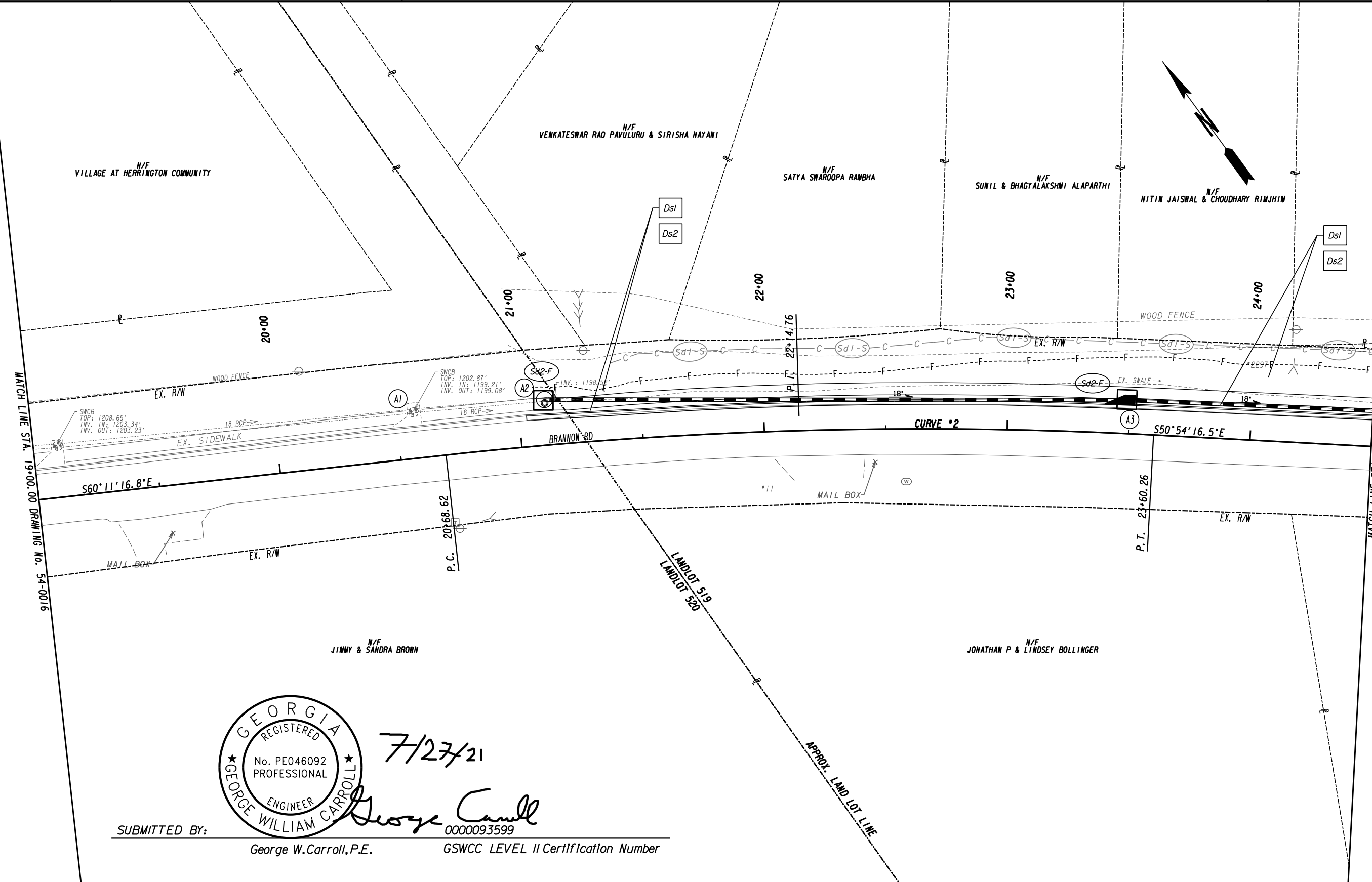
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 END LIMIT OF ACCESS.....ELA
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

PLANS PREPARED AND SUBMITTED BY:
 American Engineers, Inc.
 65 Aberdeen Drive, Glasgow, KY 40244
 2500 Nelson Miller Parkway, Louisville, KY 40223
 5160 Acworth Landing Drive, Acworth, GA 30006
 (770) 421-8422
 (502) 245-3883
 DESIGN CONSULTANT PROFESSIONAL ENGINEERING



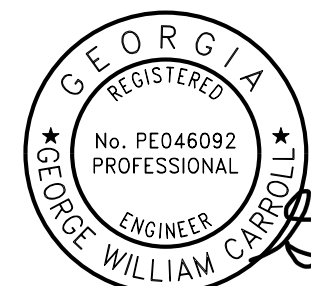
REVISION DATES	

BMP LOCATION DETAILS STAGE I		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0016
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 19+00.00 DRAWING NO. 54-0016

MATCH LINE STA. 24+50.00 DRAWING NO. 54-0018

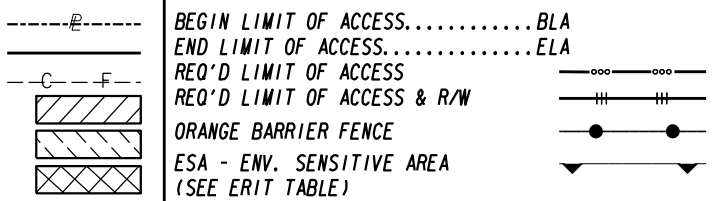


7/27/21

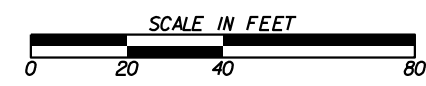
George Carroll

SUBMITTED BY: George W. Carroll, P.E. 0000093599
 GSWCC LEVEL II Certification Number

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

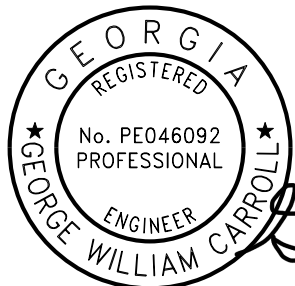
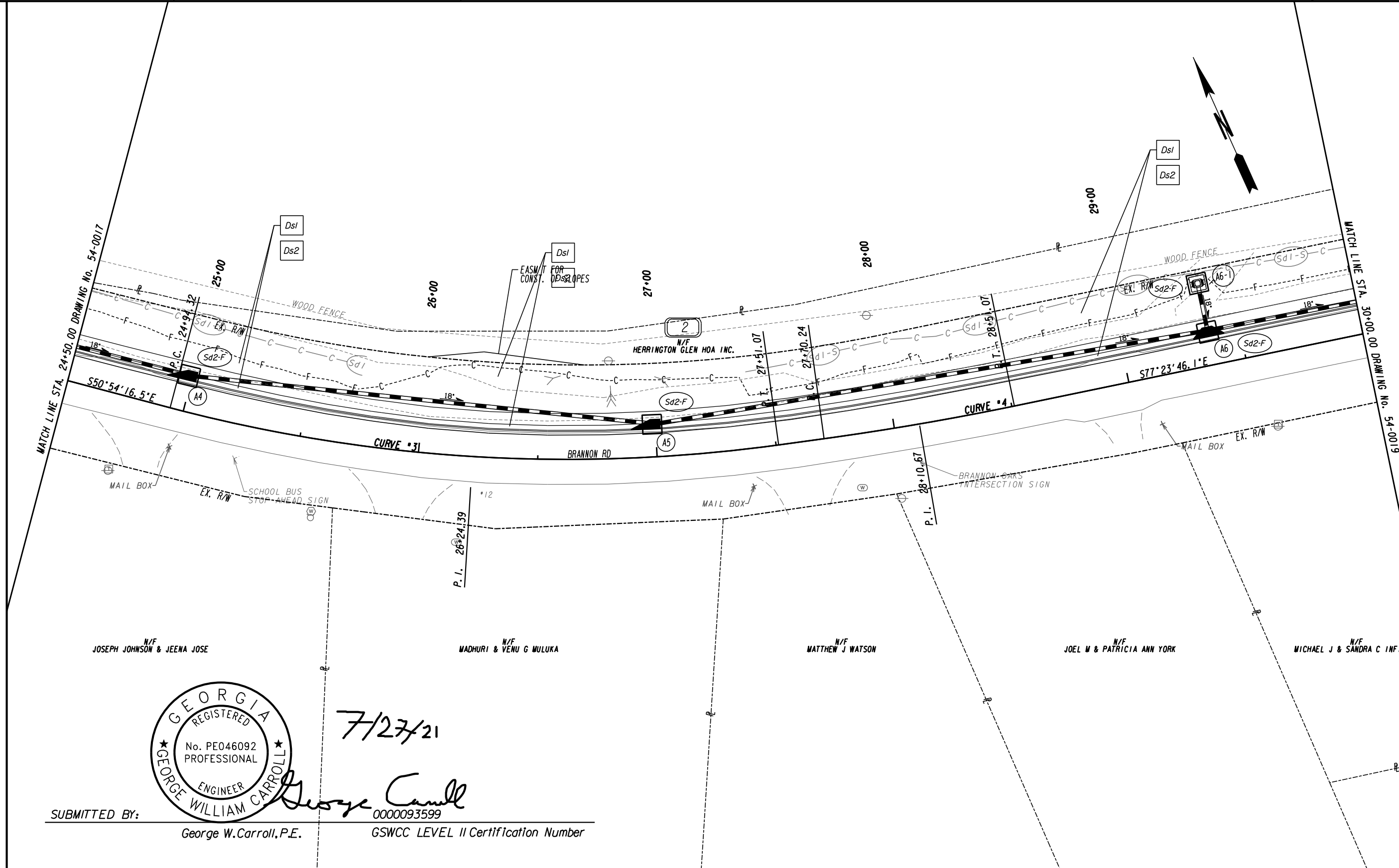


PLANS PREPARED AND SUBMITTED BY:
 American Engineers, Inc.
 65 Aberdeen Drive, Glasgow, KY 40304
 2500 Nelson Miller Parkway, Louisville, KY 40223
 5160 Acworth Landing Drive, Acworth, GA 30092



REVISION DATES	

BMP LOCATION DETAILS STAGE I		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No. 54-0017
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



7/27/21

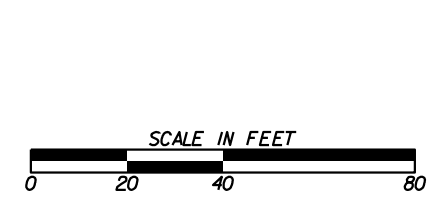
George Carroll

SUBMITTED BY: George W. Carroll, P.E. 0000093599
 GSWCC LEVEL II Certification Number

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	---/---

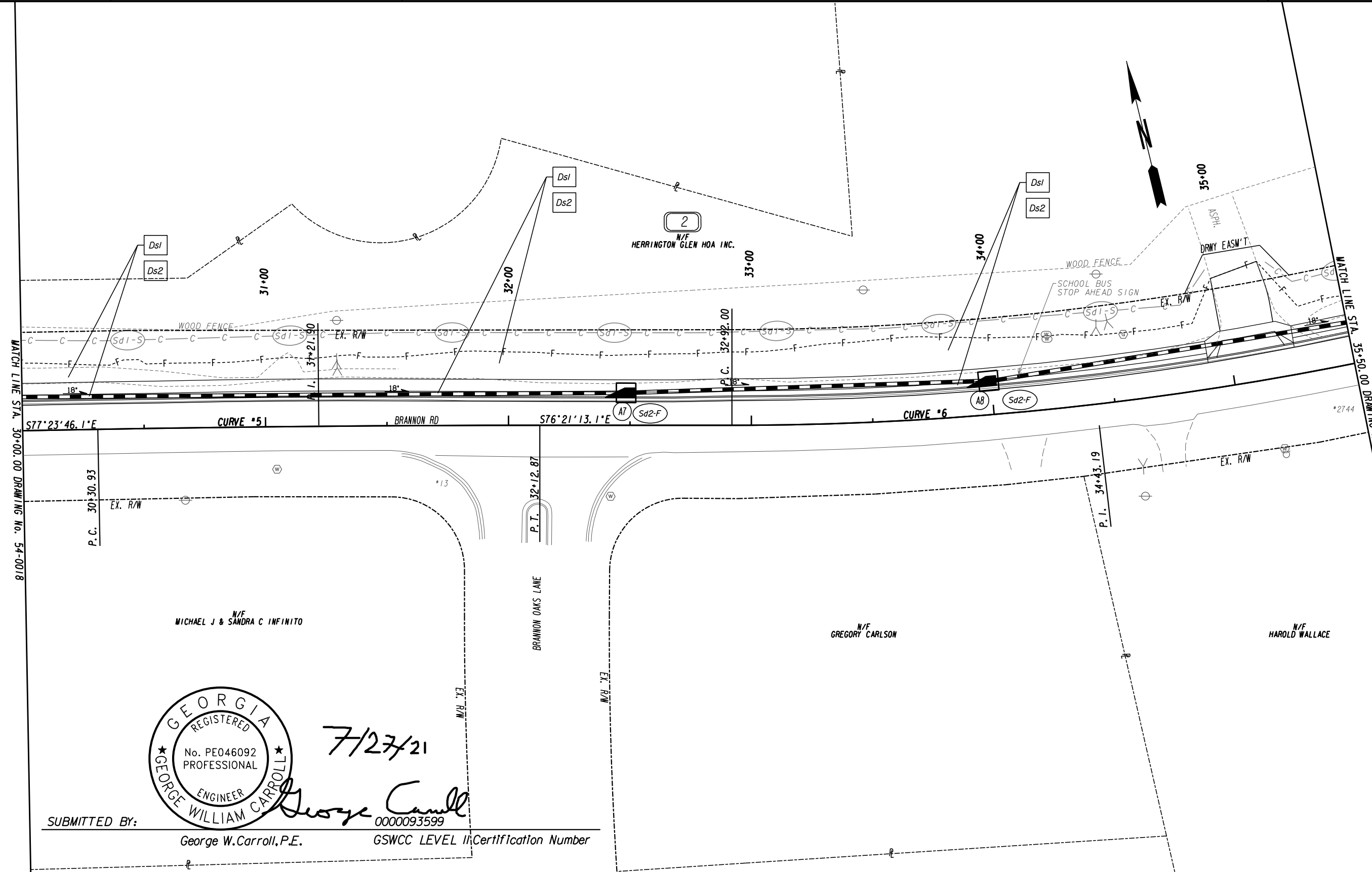
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REQ'D LIMIT OF ACCESS	---
REQ'D LIMIT OF ACCESS & R/W	---
ORANGE BARRIER FENCE	---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---

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



REVISION DATES	

BMP LOCATION DETAILS STAGE I		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0018
CORRECTED:	DATE:	
VERIFIED:	DATE:	



7/27/21

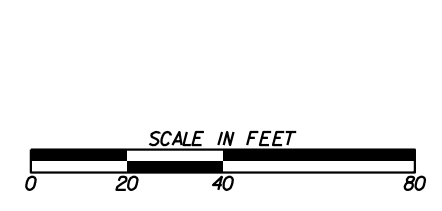
SUBMITTED BY: George W. Carroll 0000093599
 George W. Carroll, P.E. GSWCC LEVEL II Certification Number

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

---e--- BEGIN LIMIT OF ACCESS.....BLA
 ---c--- END LIMIT OF ACCESS.....ELA
 ---f--- REQ'D LIMIT OF ACCESS
 ---h--- REQ'D LIMIT OF ACCESS & R/W
 ---o--- ORANGE BARRIER FENCE
 ---s--- ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

PLANS PREPARED AND SUBMITTED BY:

AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT PROFESSIONAL ENGINEERING



REVISION DATES	

BMP LOCATION DETAILS STAGE I		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0019
CORRECTED:	DATE:	
VERIFIED:	DATE:	

CONTRACTOR SHALL COORDINATE WITH PARCEL 4 DEVELOPMENT.

4

N/F CHABAD CENTER FOR JEWISH LIFE

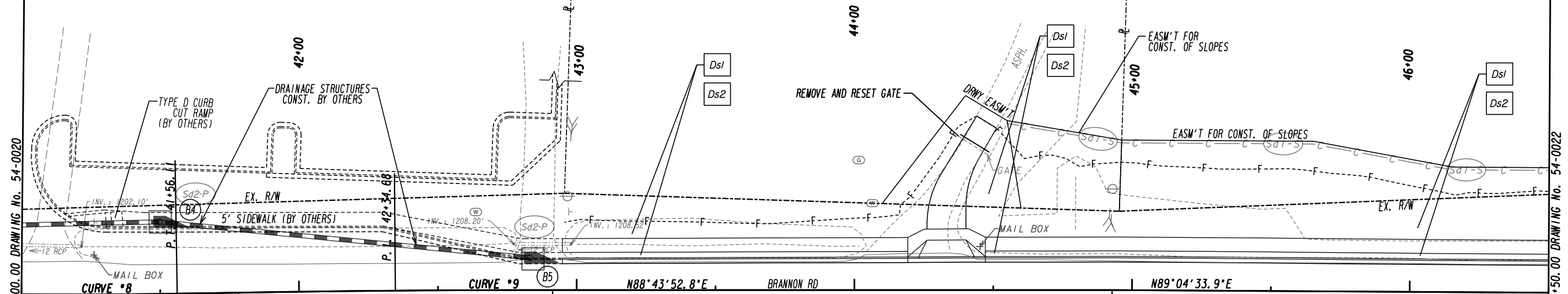
PARKING LOT AND DRIVEWAY CONSTRUCTED BY OTHERS

5

N/F PXBE LLC

6

N/F DANIEL B & CAROL W THALIMER



MATCH LINE STA. 41+00.00 DRAWING No. 54-0020

MATCH LINE STA. 46+50.00 DRAWING No. 54-0022

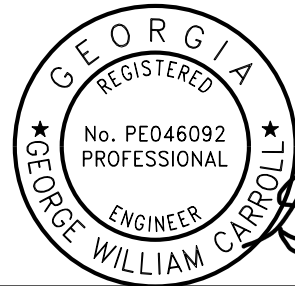
N/F RICHARD F & ALICE H THYER

N/F SEAN & JENNIFER WALLACE

N/F EDWARD & MELISSA LASH

N/F STEPHEN J & SU S KIM

N/F CHARLES H JR & PAMELA W HARDY



7/27/21

George Carroll

SUBMITTED BY:

George W. Carroll, P.E.

0000093599

GSWCC LEVEL II Certification Number

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	-----c-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----s-----
EASEMENT FOR CONSTR OF SLOPES	-----t-----
EASEMENT FOR CONSTR OF DRIVES	-----u-----

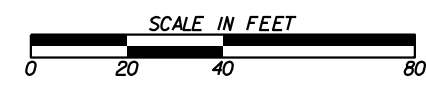
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REQ'D LIMIT OF ACCESS	-----m-----
REQ'D LIMIT OF ACCESS & R/W	-----n-----
ORANGE BARRIER FENCE	-----p-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----q-----

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

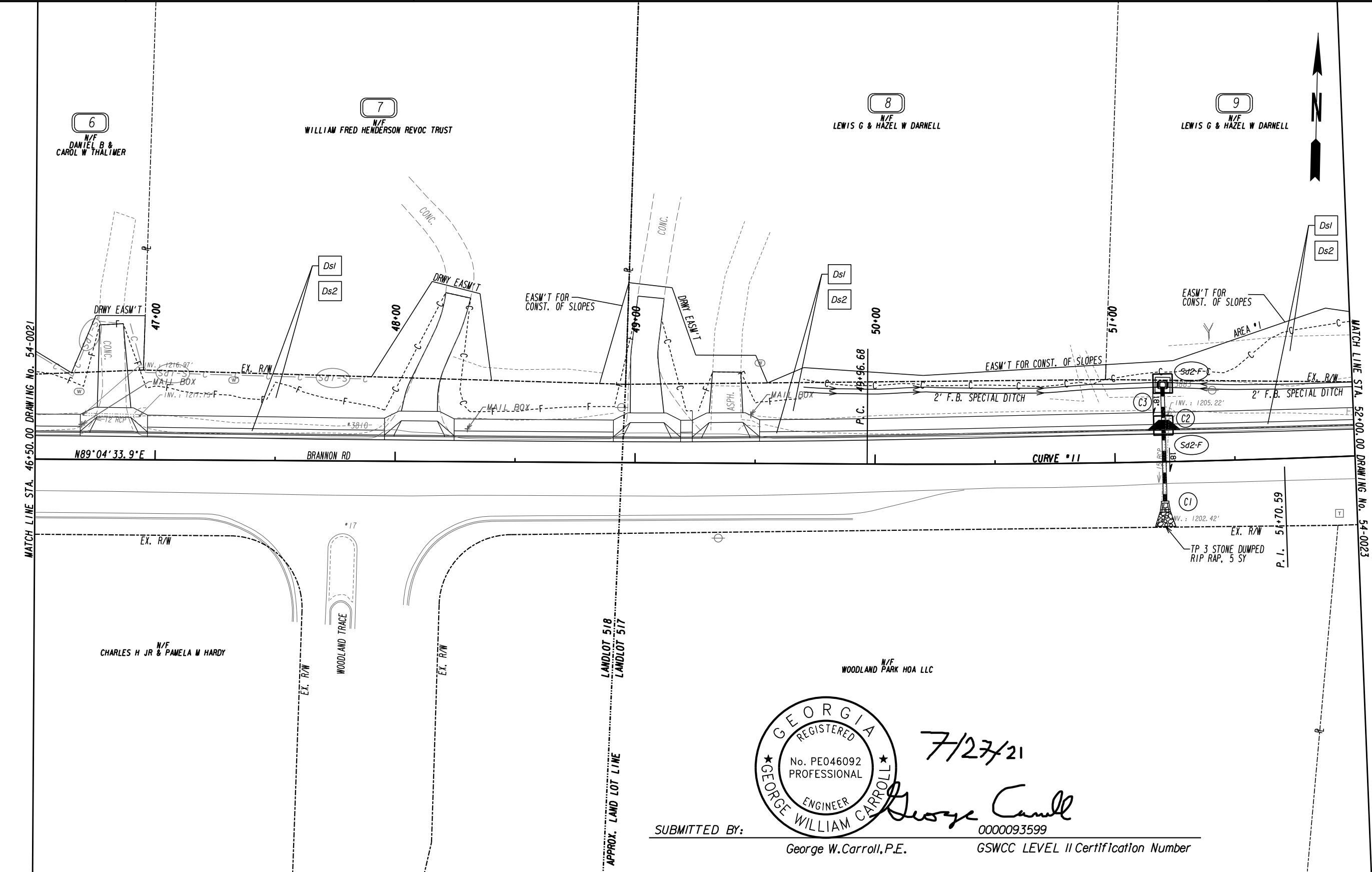
Branch Office:
5150 Acworth Landing Drive
Acworth, GA 30092
(770) 421-8422

2500 Nelson Miller Parkway
Louisville, KY 40223
(502) 245-3883



REVISION DATES	
NO.	DATE

BMP LOCATION DETAILS STAGE I		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0021
CORRECTED:	DATE:	
VERIFIED:	DATE:	



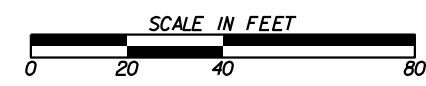
7/27/21
George Carroll

SUBMITTED BY: George W. Carroll, P.E. 0000093599
GSWCC LEVEL II Certification Number

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	---/---

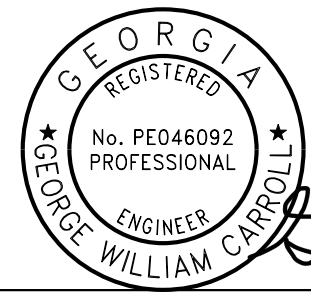
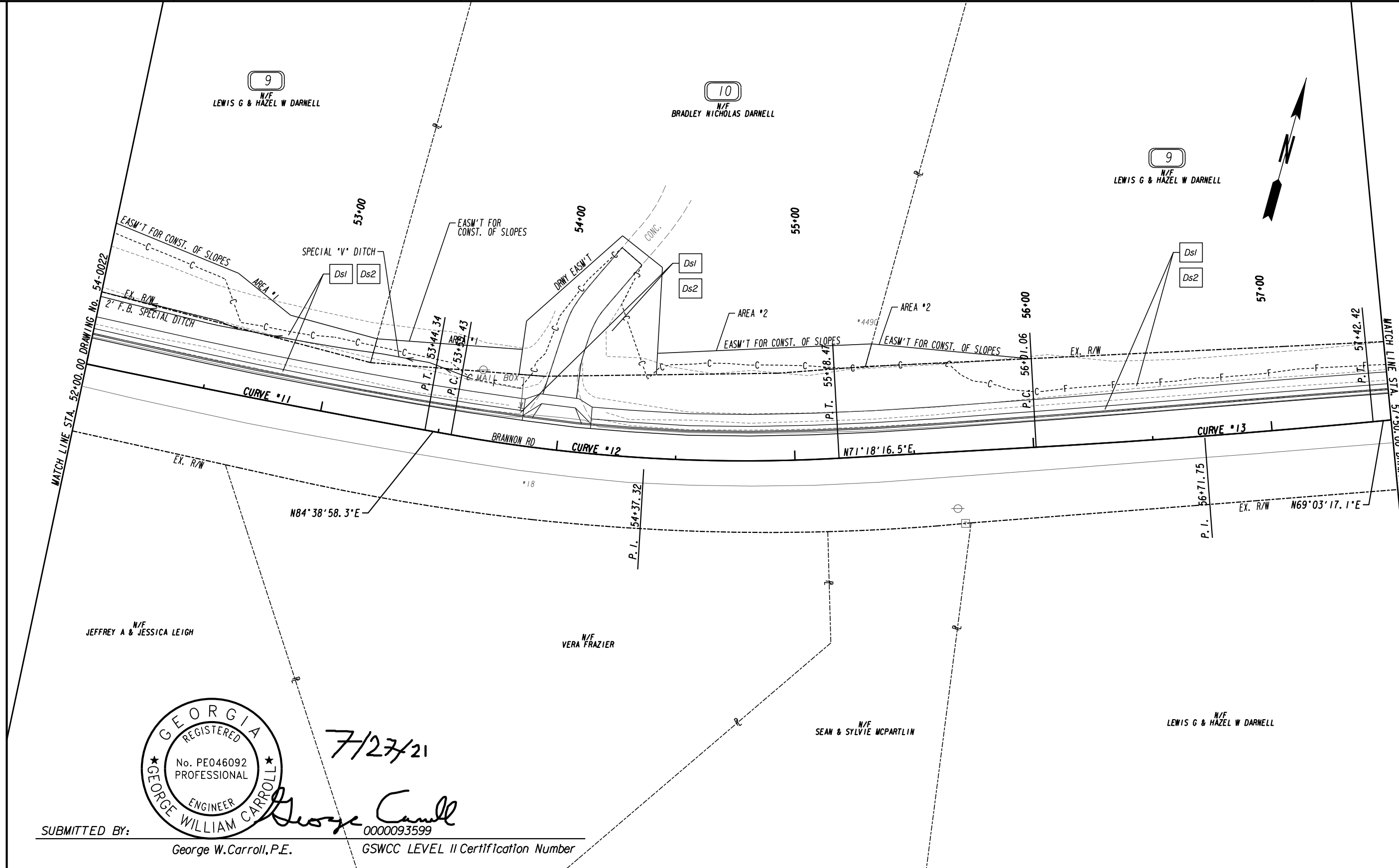
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REQ'D LIMIT OF ACCESS	---
REQ'D LIMIT OF ACCESS & R/W	---
ORANGE BARRIER FENCE	---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---

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



REVISION DATES	

BMP LOCATION DETAILS STAGE I		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No. 54-0022
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



7/27/21
George Carroll
0000093599
GSWCC LEVEL II Certification Number

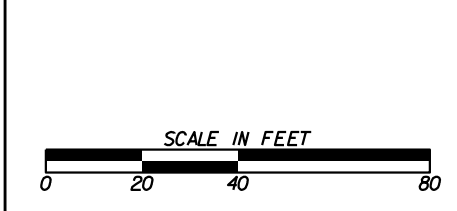
SUBMITTED BY:
George W. Carroll, P.E.

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---C---F---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA	---o---o---
END LIMIT OF ACCESS.....ELA	--- --- ---
REQ'D LIMIT OF ACCESS	---o---o---
REQ'D LIMIT OF ACCESS & R/W	--- --- ---
ORANGE BARRIER FENCE	---●---●---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---▽---▽---

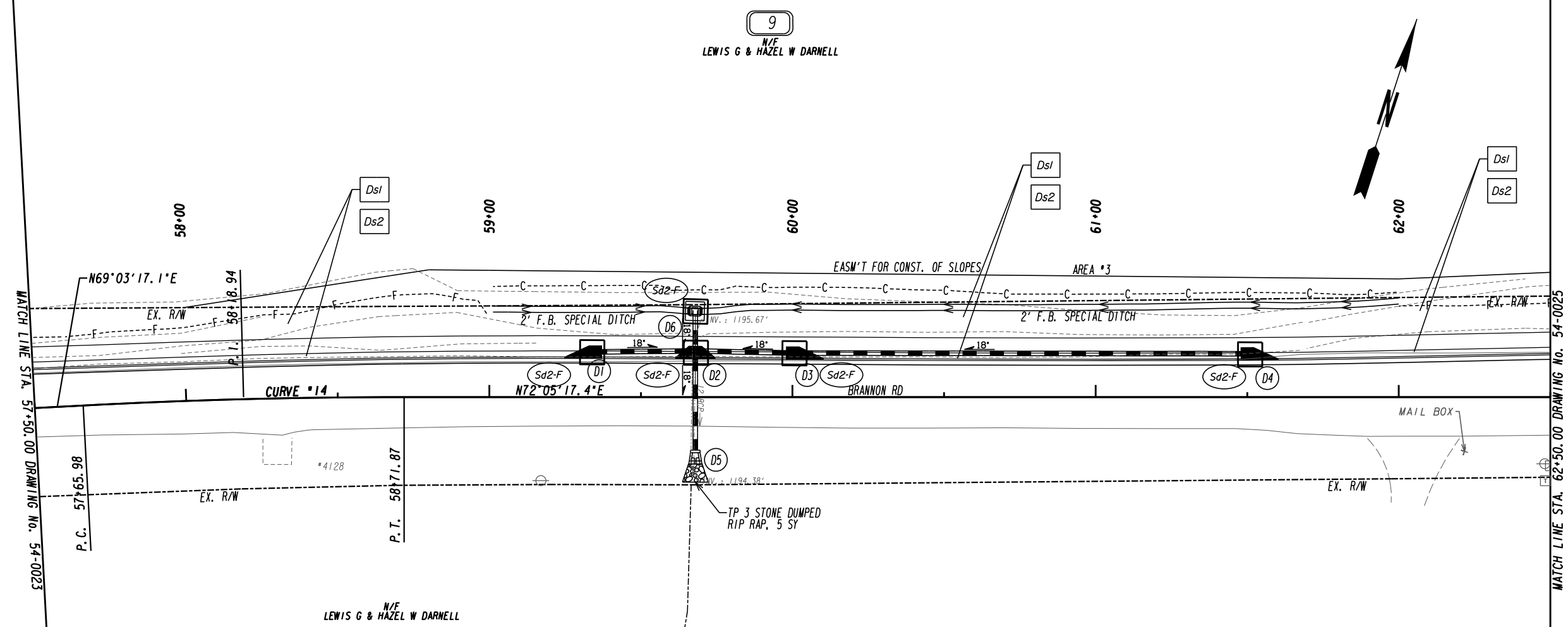
PLANS PREPARED AND SUBMITTED BY:

 AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT
 PROFESSIONAL ENGINEERING



REVISION DATES	

BMP LOCATION DETAILS STAGE I		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No. 54-0023
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



7/27/21

George Carroll

SUBMITTED BY: George W. Carroll, P.E. 0000093599
 GSWCC LEVEL II Certification Number

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

-----e-----
 ---C---F---
 [Hatched Box]
 [Hatched Box]
 [Hatched Box]

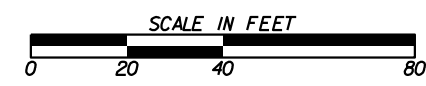
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 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

PLANS PREPARED AND SUBMITTED BY:

AEI
 AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT

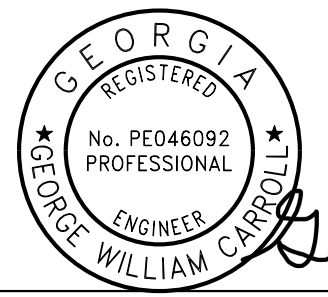
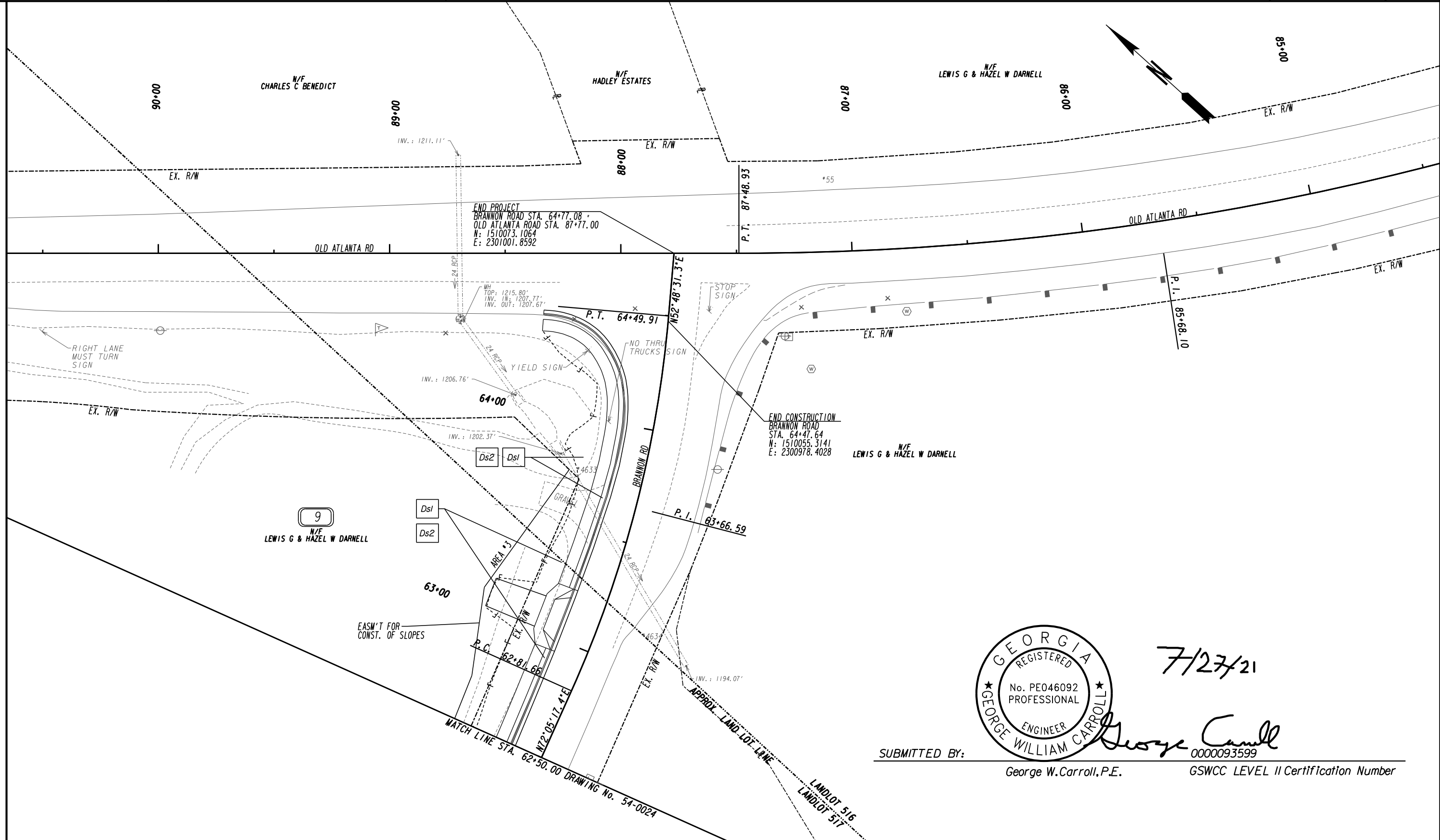
2500 Nelson Miller Parkway
 Louisville, KY 40223
 (502) 245-3883

5160 Acworth Landing Drive
 Acworth, GA 30006
 (770) 421-8422



REVISION DATES	

BMP LOCATION DETAILS STAGE I		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0024
CORRECTED:	DATE:	
VERIFIED:	DATE:	



7/27/21

SUBMITTED BY: George W. Carroll, P.E.

0000093599
GSWCC LEVEL II Certification Number

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	-----g-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----h-----
EASEMENT FOR CONSTR OF SLOPES	-----i-----
EASEMENT FOR CONSTR OF DRIVES	-----j-----

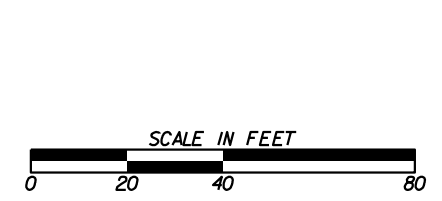
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REQ'D LIMIT OF ACCESS	-----m-----
REQ'D LIMIT OF ACCESS & R/W	-----n-----
ORANGE BARRIER FENCE	-----o-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----p-----

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

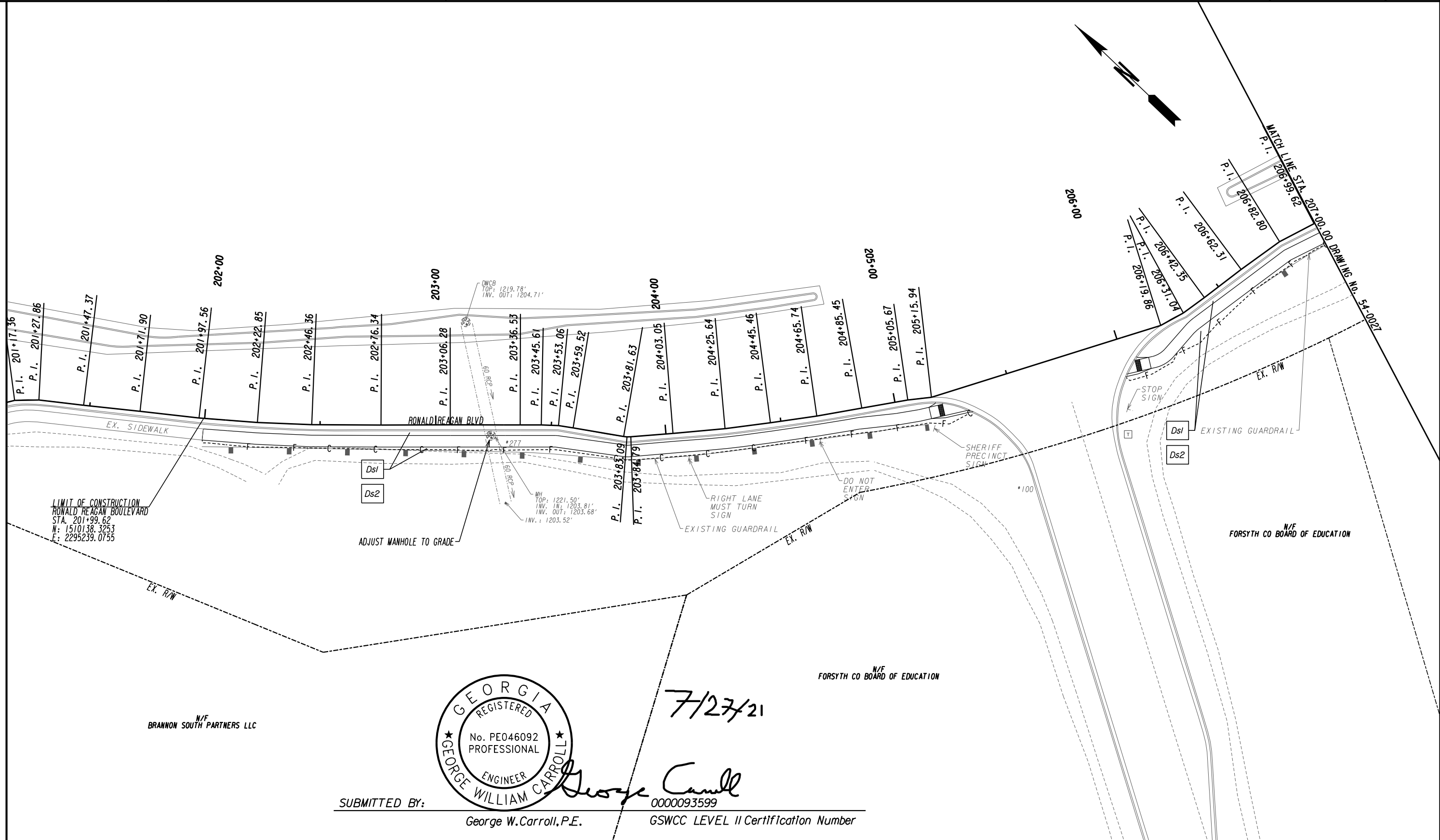
2500 Nelson Miller Parkway
Louisville, KY 40223
502-245-3852

5160 Acworth Landing Drive
Acworth, GA 30092
770-421-8422



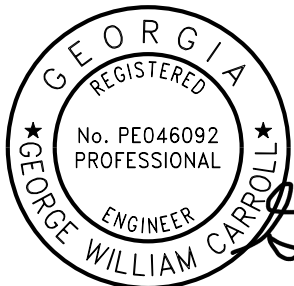
REVISION DATES	

BMP LOCATION DETAILS STAGE I		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0025
CORRECTED:	DATE:	
VERIFIED:	DATE:	



LIMIT OF CONSTRUCTION
RONALD REAGAN BOULEVARD
STA. 201+99.62
N: 1510138.3253
E: 2295239.0755

N/F
BRANNON SOUTH PARTNERS LLC



7/27/21

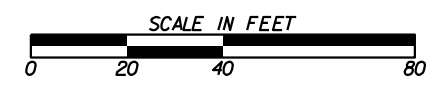
SUBMITTED BY: *George Carroll*
George W. Carroll, P.E. 0000093599
GSWCC LEVEL II Certification Number

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

BEGIN LIMIT OF ACCESS.....BLA	-----o-----
END LIMIT OF ACCESS.....ELA	-----o-----
REQ'D LIMIT OF ACCESS	-----o-----
REQ'D LIMIT OF ACCESS & R/W	-----o-----
ORANGE BARRIER FENCE	-----o-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----o-----

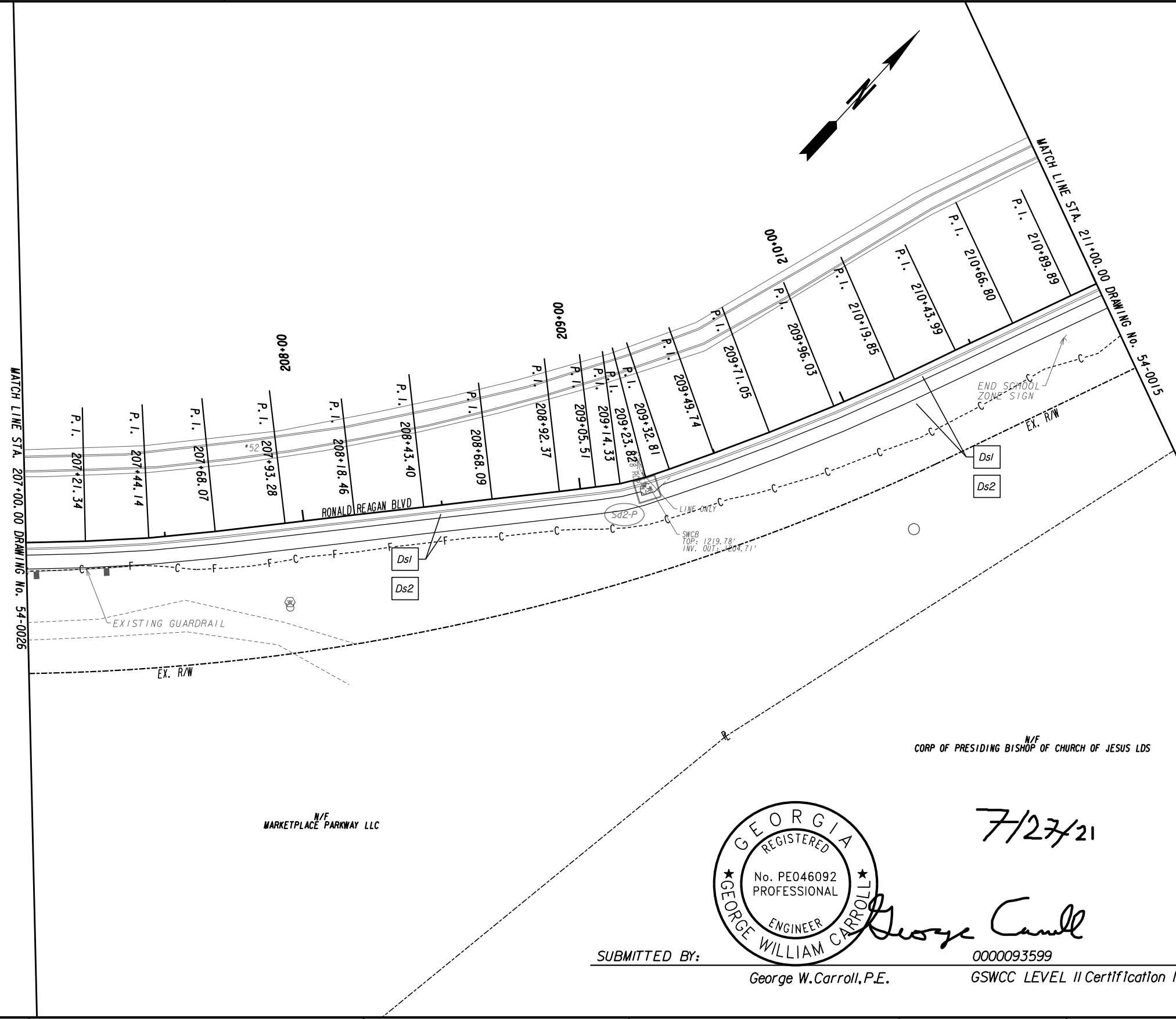
PLANS PREPARED AND SUBMITTED BY:

 AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT
 PROFESSIONAL ENGINEERING



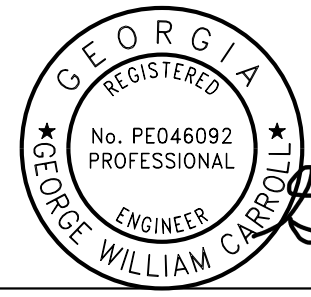
REVISION DATES	

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RONALD REAGAN BOULEVARD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0026
CORRECTED:	DATE:	
VERIFIED:	DATE:	



N/F
CORP OF PRESIDING BISHOP OF CHURCH OF JESUS LDS

N/F
MARKETPLACE PARKWAY LLC



7/27/21

George Carroll

SUBMITTED BY:
George W. Carroll, P.E.

0000093599
GSWCC LEVEL II Certification Number

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----
CONSTRUCTION LIMITS	-----C-----
EASEMENT FOR CONSTR	-----F-----
& MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Hatched Box]

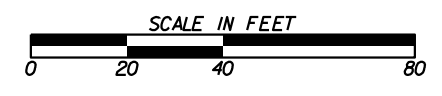
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REQ'D LIMIT OF ACCESS	---o---o---
REQ'D LIMIT OF ACCESS & R/W	---o---o---
ORANGE BARRIER FENCE	---o---o---
ESA - ENV. SENSITIVE AREA	---o---o---
(SEE ERIT TABLE)	---o---o---

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

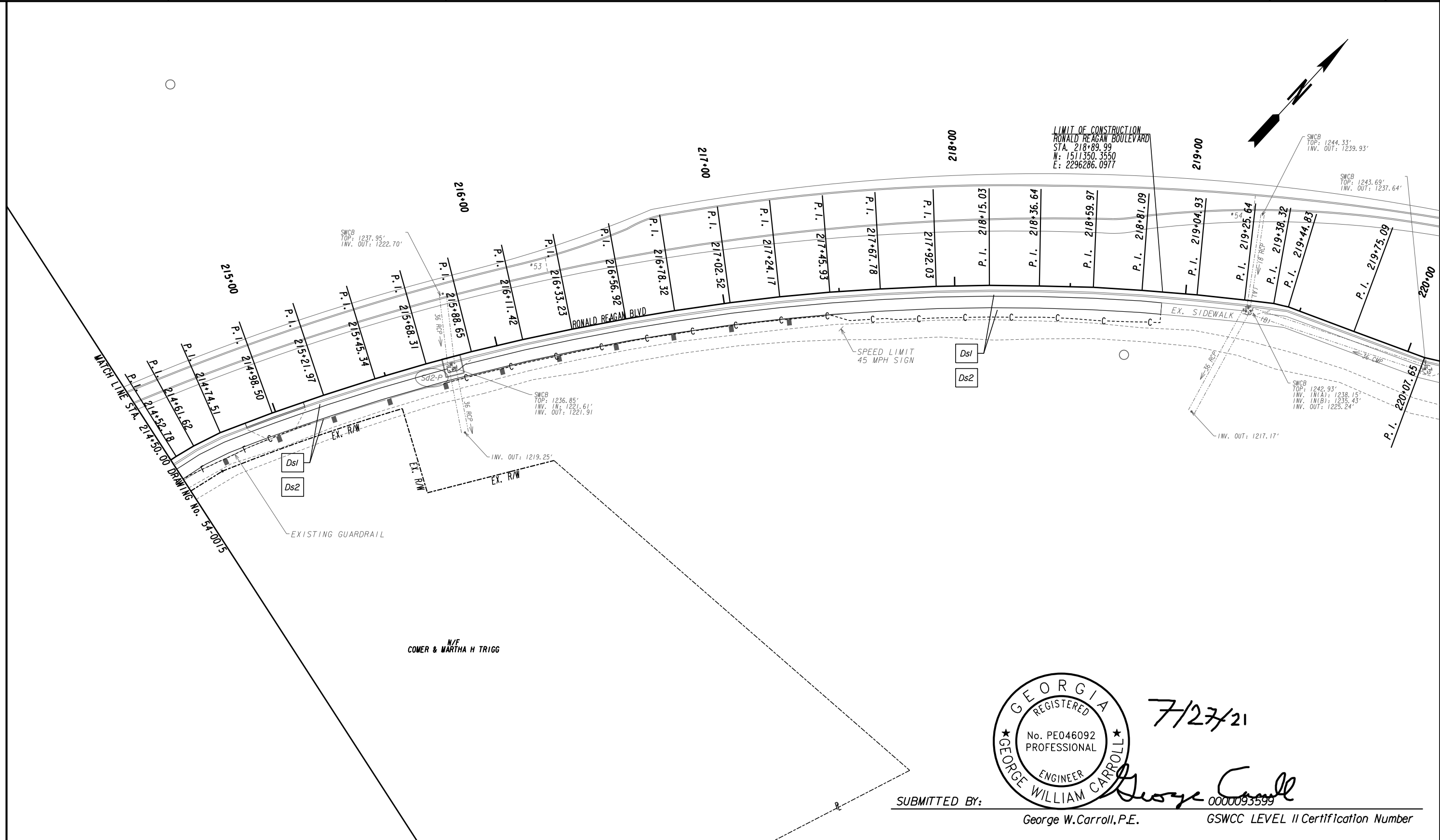
2500 Nelson Miller Parkway
Louisville, KY 40223
502-245-3853

5160 Acworth Landing Drive
Acworth, GA 30092
770-421-8422

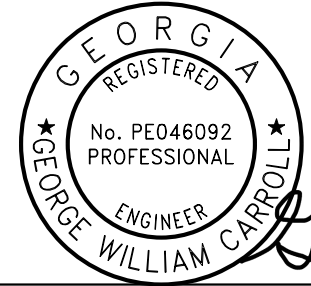


REVISION DATES	

BMP LOCATION DETAILS		
STAGE I		
RONALD REAGAN BOULEVARD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0027
CORRECTED:	DATE:	
VERIFIED:	DATE:	



N/F
COMER & MARTHA H TRIGG



7/27/21

George Carroll

SUBMITTED BY:

George W. Carroll, P.E.

0000093599

GSWCC LEVEL II Certification Number

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	▧

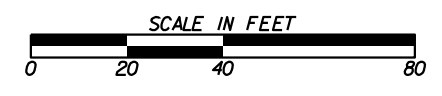
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END LIMIT OF ACCESS.....ELA	---
REQ'D LIMIT OF ACCESS	---
REQ'D LIMIT OF ACCESS & R/W	---
ORANGE BARRIER FENCE	●
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	▼

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

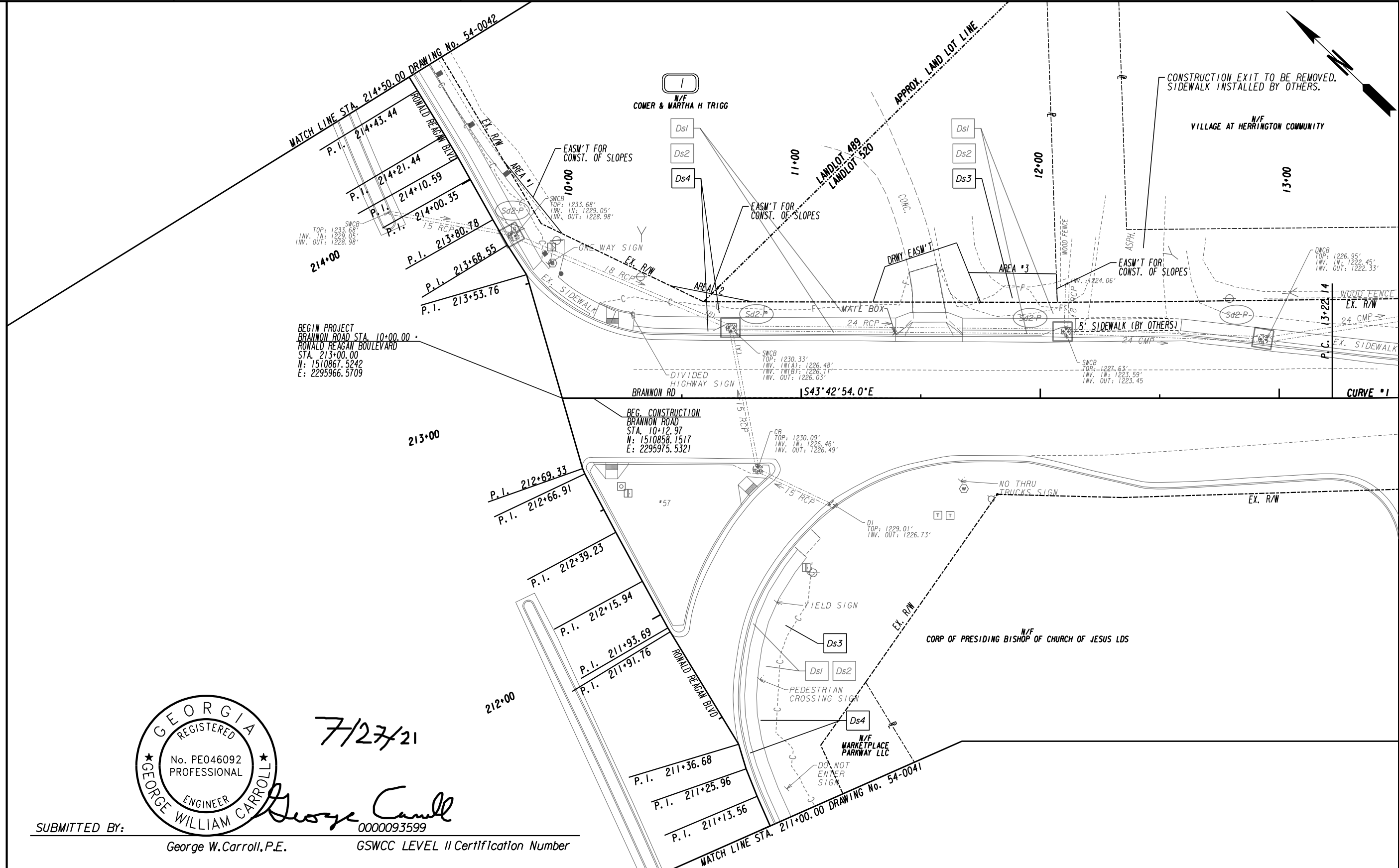
2500 Nelson Miller Parkway
Louisville, KY 40223
502-245-3883

5160 Acworth Landing Drive
Acworth, GA 30006
(770) 421-8422

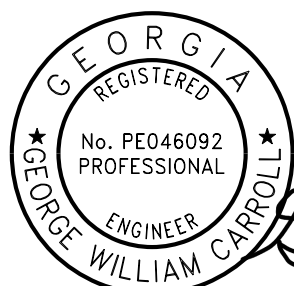


REVISION DATES	

BMP LOCATION DETAILS STAGE I		
RONALD REAGAN BOULEVARD		
CHECKED:	DATE:	DRAWING No. 54-0028
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 13+50.00 DRAWING No. 54-0030



7/27/21

George Carroll
0000093599

SUBMITTED BY: George W. Carroll, P.E. GSWCC LEVEL II Certification Number

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	-----g-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----h-----
EASEMENT FOR CONSTR OF SLOPES	-----i-----
EASEMENT FOR CONSTR OF DRIVES	-----j-----

BEGIN LIMIT OF ACCESS.....BLA	-----k-----
END LIMIT OF ACCESS.....ELA	-----l-----
REQ'D LIMIT OF ACCESS	-----m-----
REQ'D LIMIT OF ACCESS & R/W	-----n-----
ORANGE BARRIER FENCE	-----o-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----p-----

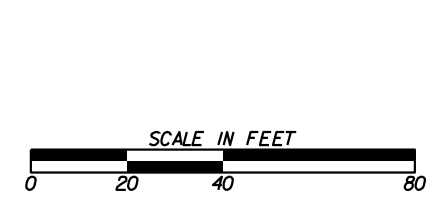
PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

0 65 Aberdeen Drive
Duluth, GA 30096
(770) 651-7220

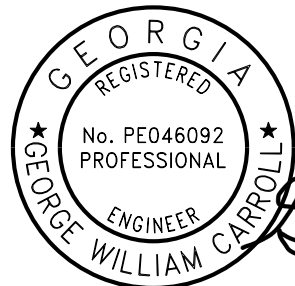
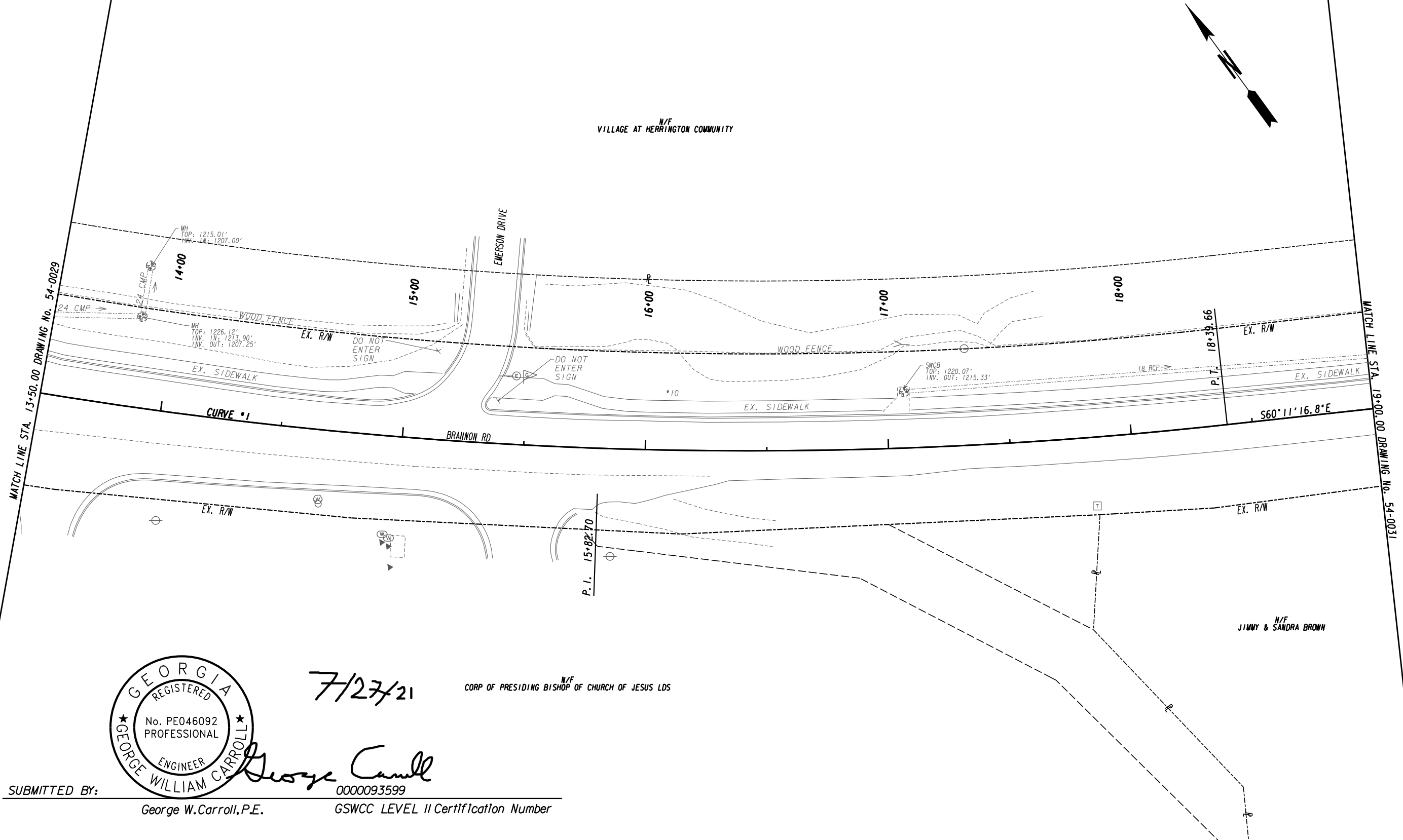
0 2500 Nelson Miller Parkway
Louisville, KY 40223
(502) 245-3883

0 560 Acworth Landing Drive
Acworth, GA 30006
(770) 421-8422



REVISION DATES	

BMP LOCATION DETAILS STAGE 2 BRANNON ROAD			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	54-0029	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



7/27/21

N/F
CORP OF PRESIDING BISHOP OF CHURCH OF JESUS LDS

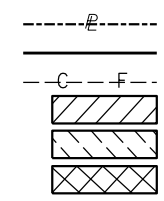
SUBMITTED BY:

George W. Carroll, P.E.

0000093599

GSWCC LEVEL II Certification Number

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



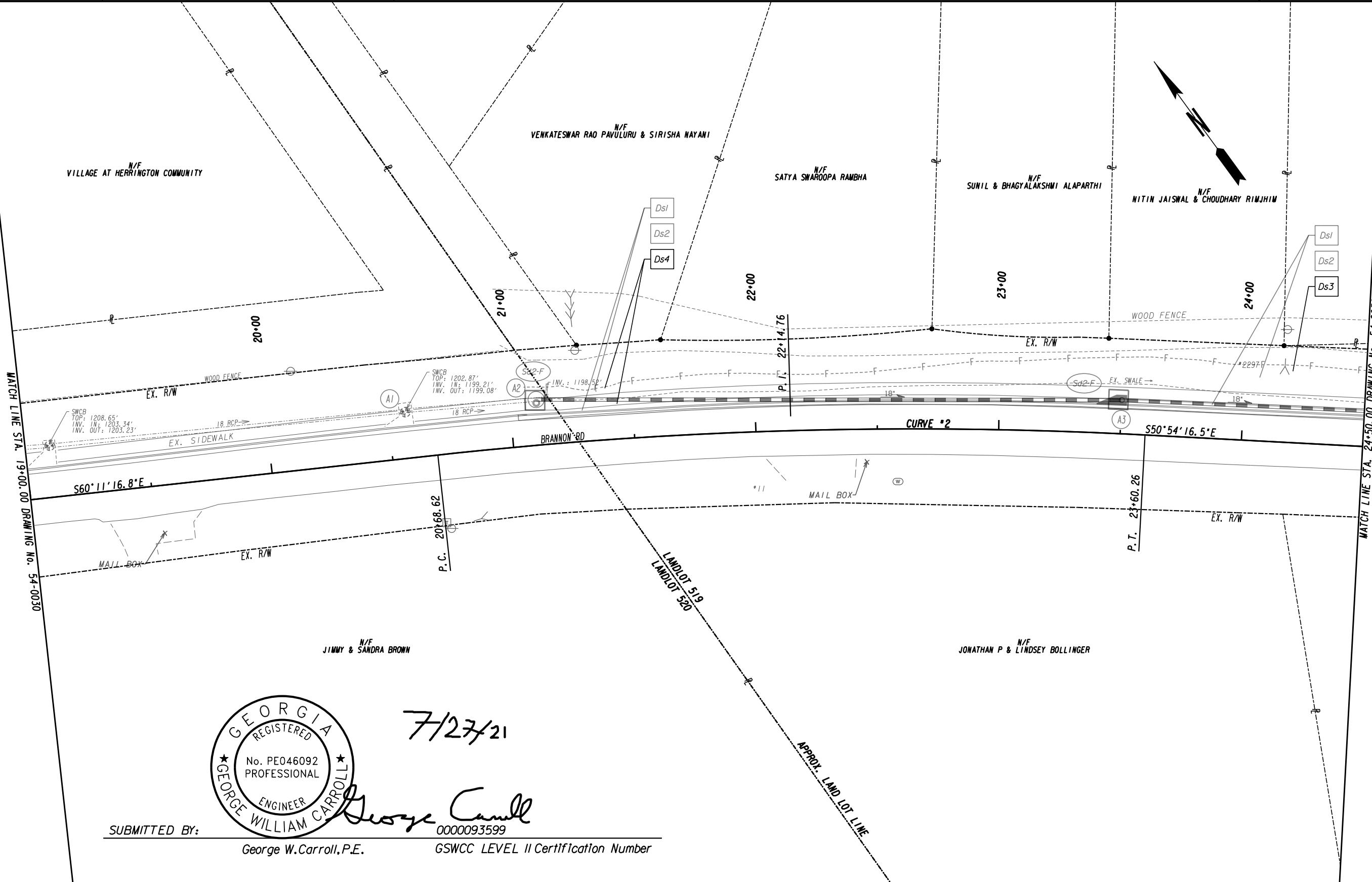
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 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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



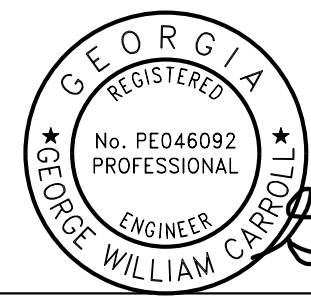
REVISION DATES	

BMP LOCATION DETAILS STAGE 2 BRANNON ROAD		
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BACKCHECKED:	DATE:	54-0030
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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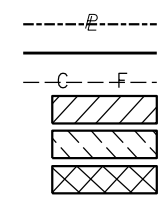
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7/27/21

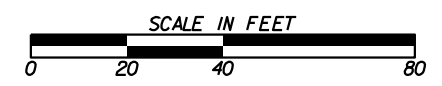
SUBMITTED BY: George W. Carroll, P.E. 0000093599
 GSWCC LEVEL II Certification Number

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



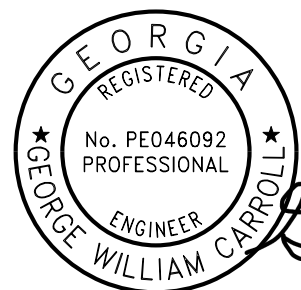
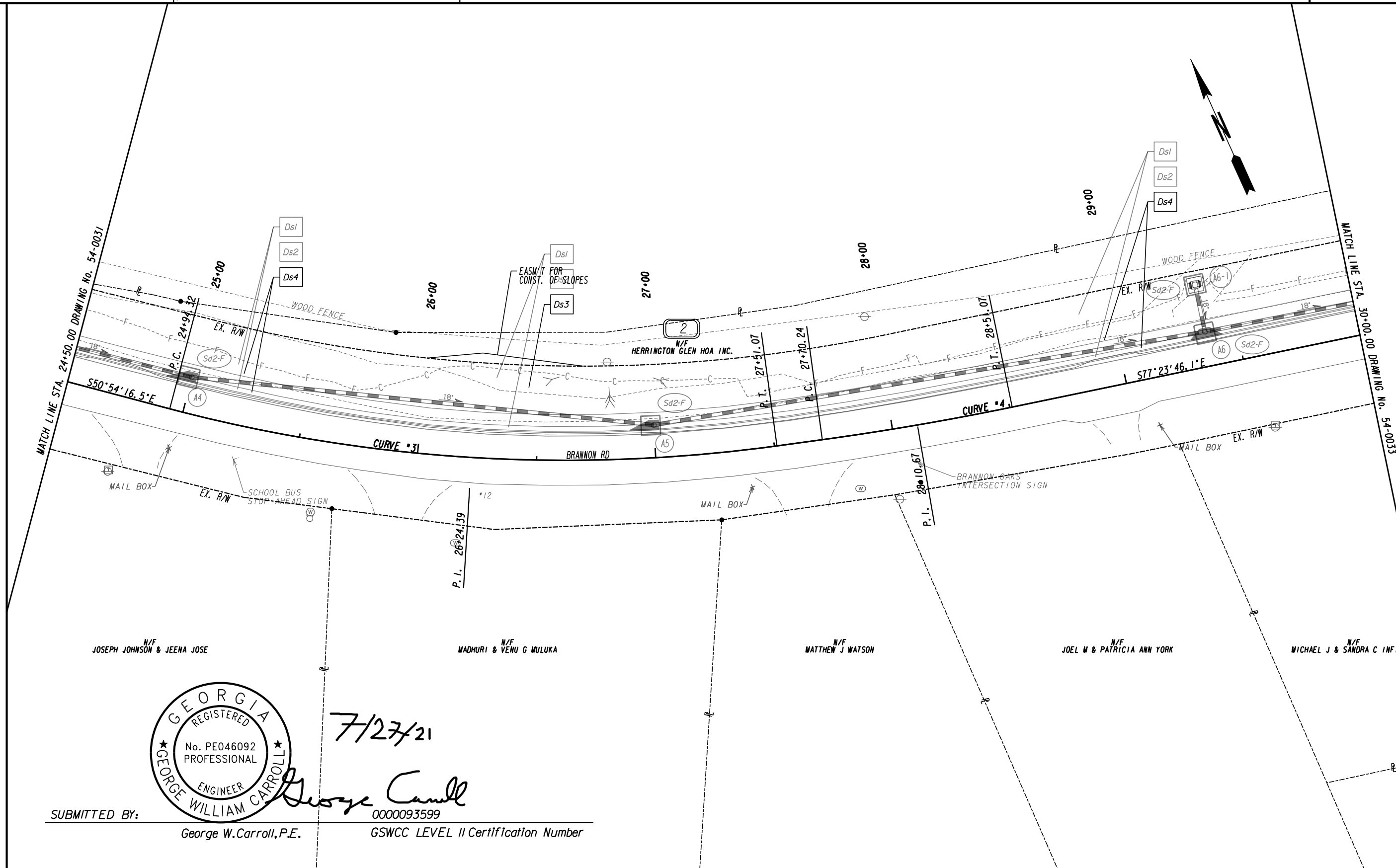
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

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



REVISION DATES	

BMP LOCATION DETAILS STAGE 2 BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0031
CORRECTED:	DATE:	
VERIFIED:	DATE:	



7/27/21

George Carroll

SUBMITTED BY:

George W. Carroll, P.E.

0000093599

GSWCC LEVEL II Certification Number

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	---/---

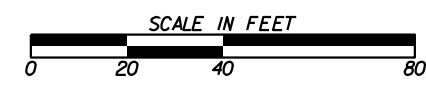
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REQ'D LIMIT OF ACCESS & R/W	---
ORANGE BARRIER FENCE	---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.

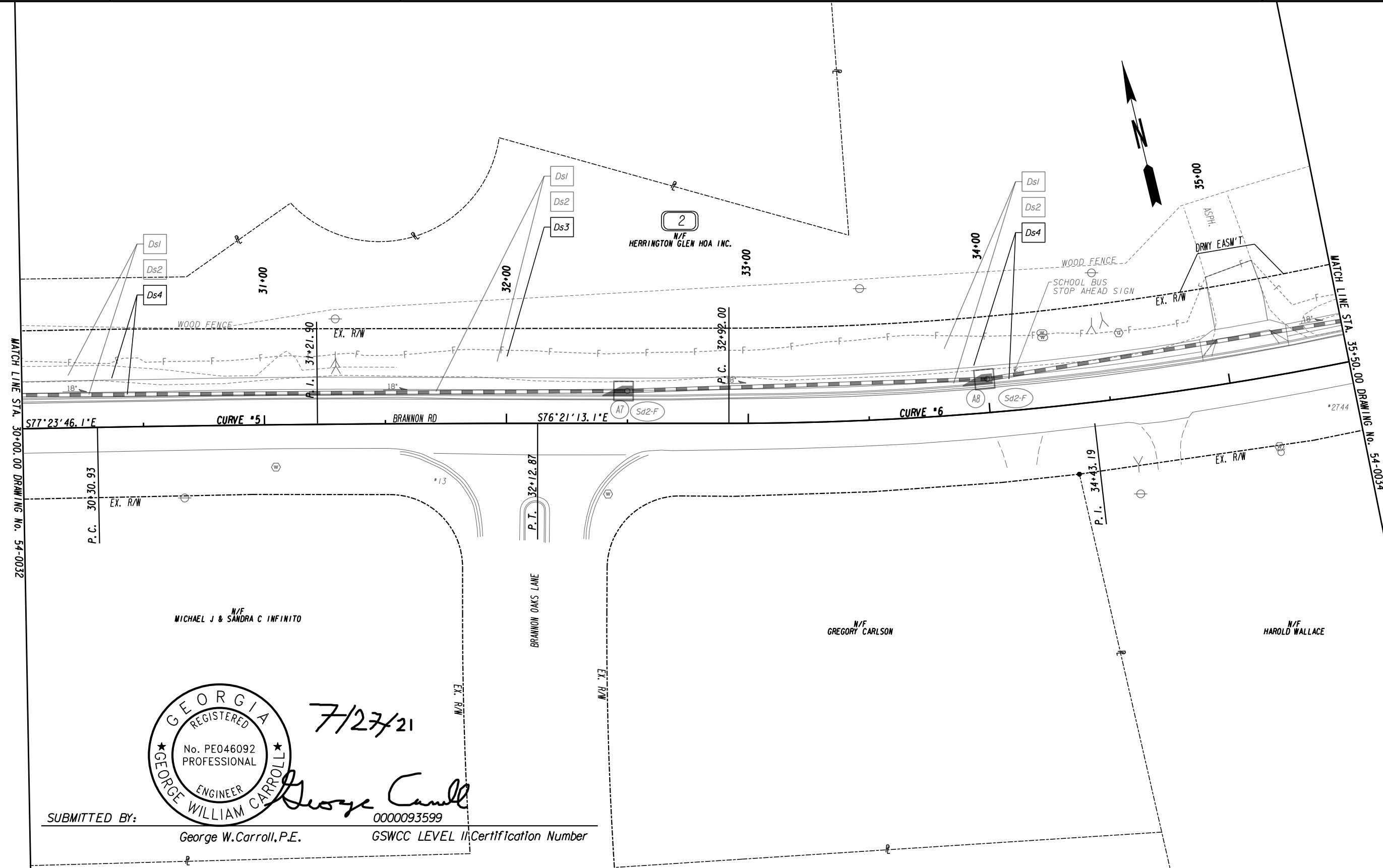
DESIGN CONSULTANT

PROFESSIONAL ENGINEERING



REVISION DATES	

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BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



7/27/21

SUBMITTED BY: *George Carroll* 0000093599
 George W. Carroll, P.E. GSWCC LEVEL II Certification Number

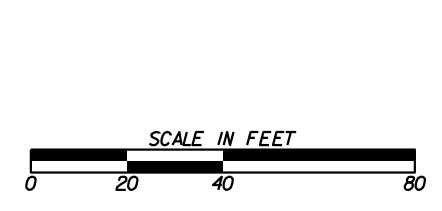
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 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

---e---
 ---C---F---

 BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
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 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)

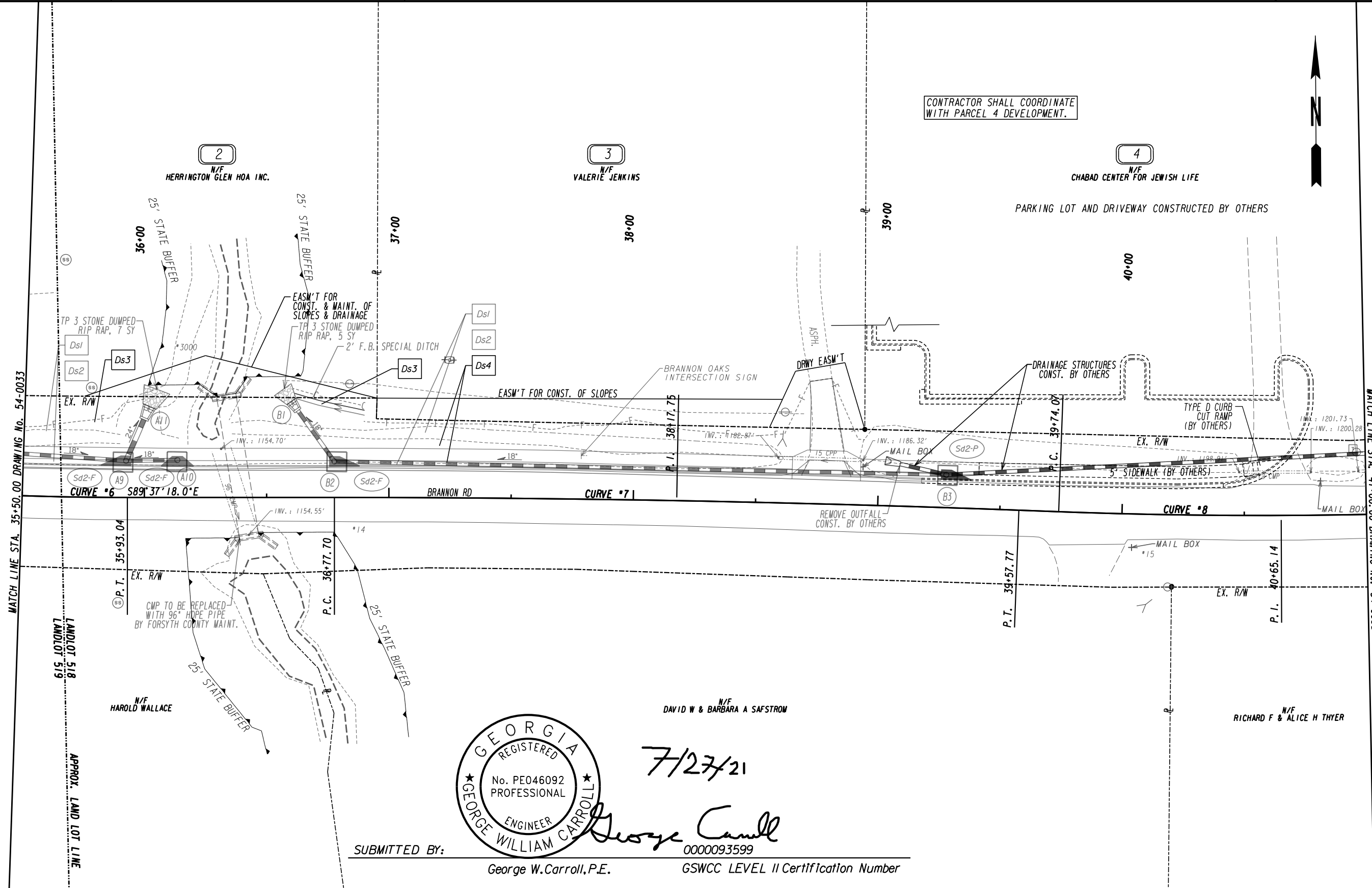
PLANS PREPARED AND SUBMITTED BY:

 AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT PROFESSIONAL ENGINEERING



REVISION DATES	

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CHECKED:	DATE:	DRAWING No. 54-0033
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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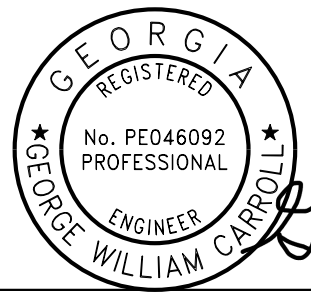
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LANDLOT 518
LANDLOT 519
APPROX. LAND LOT LINE

N/F HAROLD WALLACE

N/F DAVID W & BARBARA A SAFSTROM

N/F RICHARD F & ALICE H THYER

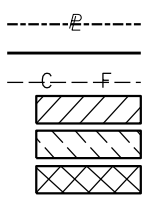


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George Carroll

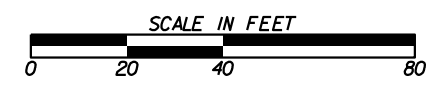
SUBMITTED BY: George W. Carroll, P.E. 0000093599
GSWCC LEVEL II Certification Number

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



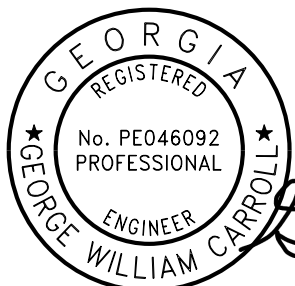
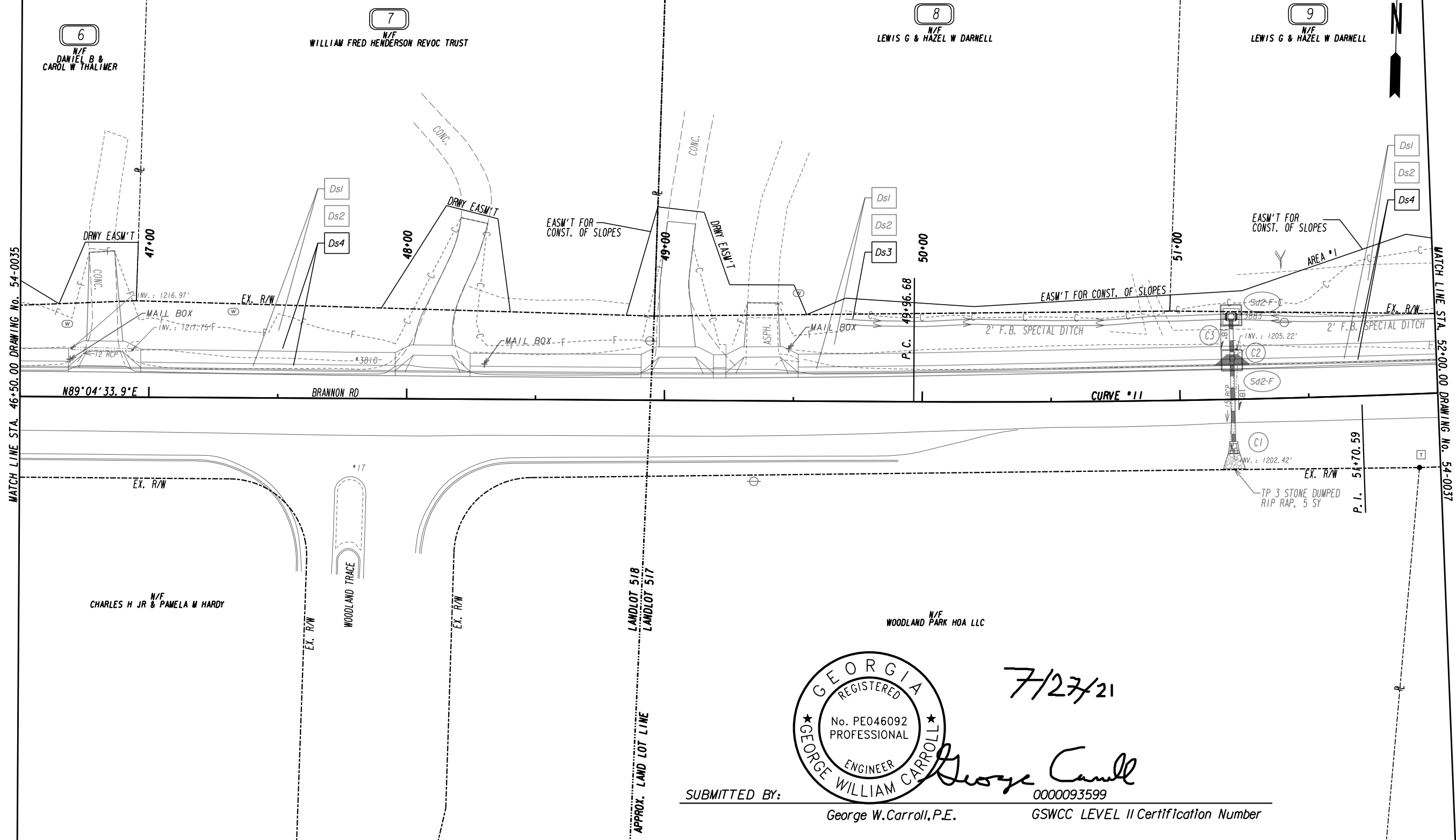
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REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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



REVISION DATES	

BMP LOCATION DETAILS STAGE 2 BRANNON ROAD		
CHECKED:	DATE:	DRAWING No. 54-0034
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



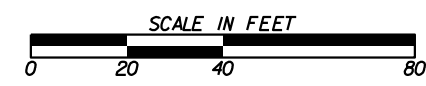
7/27/21

SUBMITTED BY: George W. Carroll, P.E. 0000093599
 GSWCC LEVEL II Certification Number

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	---/---

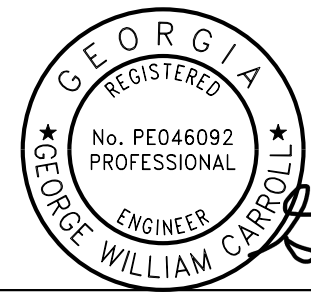
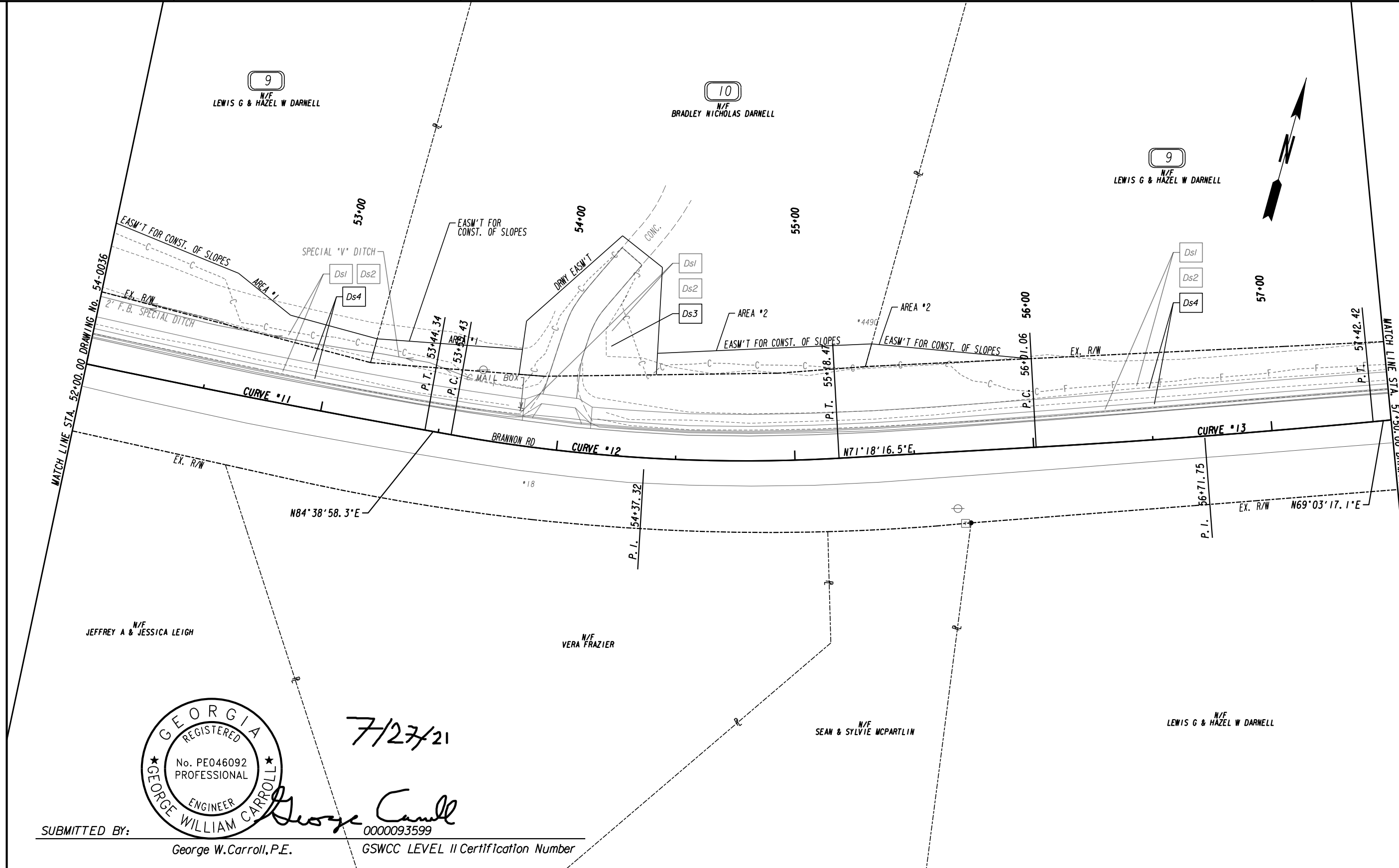
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REQ'D LIMIT OF ACCESS & R/W	--- ---
ORANGE BARRIER FENCE	--- ---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	--- ---

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



REVISION DATES	

BMP LOCATION DETAILS STAGE 2 BRANNON ROAD		
CHECKED:	DATE:	DRAWING No. 54-0036
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



7/27/21

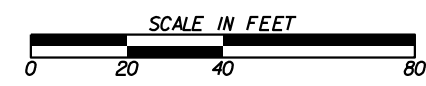
George Carroll
0000093599

SUBMITTED BY: George W. Carroll, P.E. GSWCC LEVEL II Certification Number

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---C---F---
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Hatched Box]

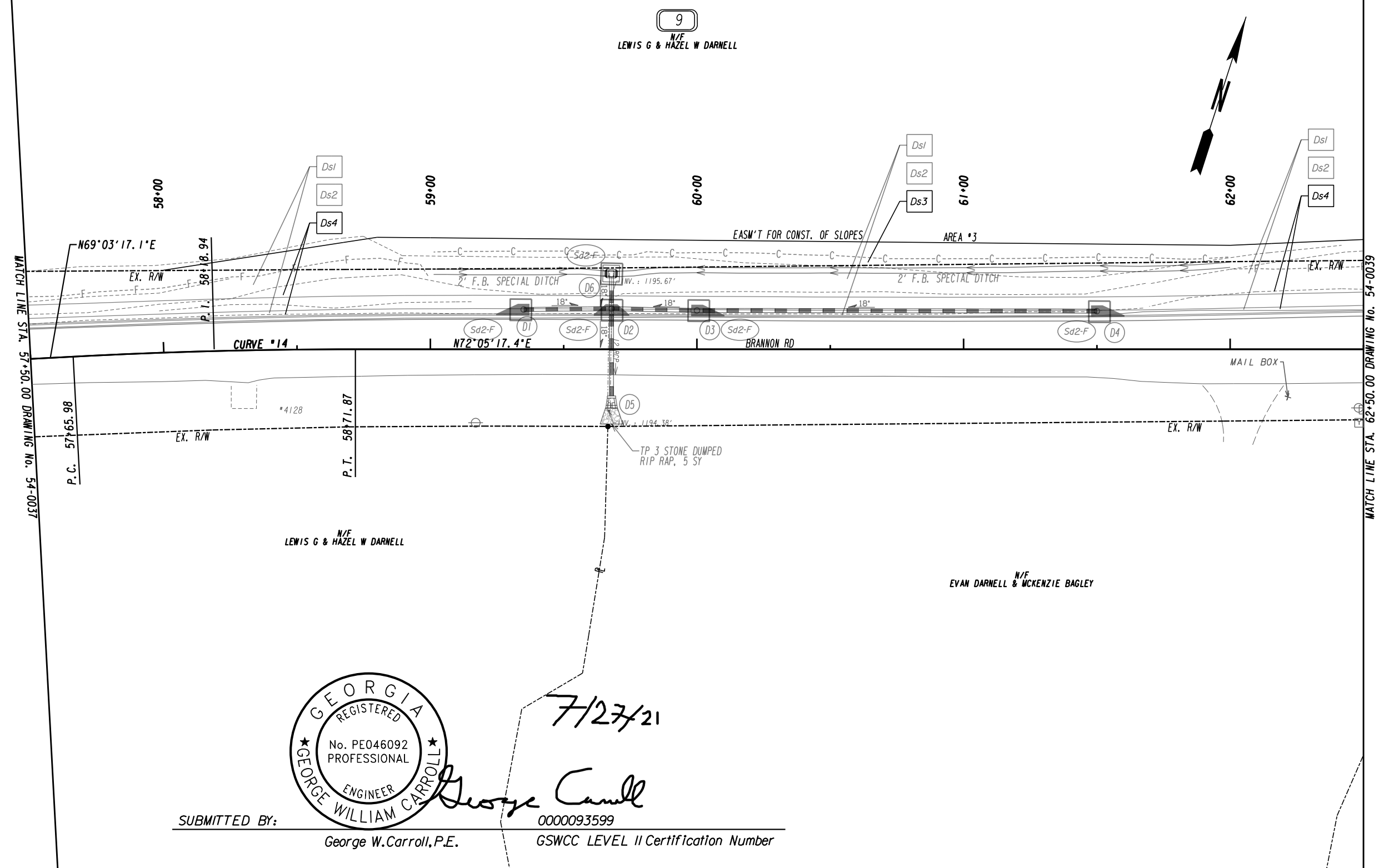
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ORANGE BARRIER FENCE	---●---●---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---▼---▼---

PLANS PREPARED AND SUBMITTED BY:
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 PROFESSIONAL ENGINEERING



REVISION DATES	

BMP LOCATION DETAILS STAGE 2 BRANNON ROAD		
CHECKED:	DATE:	DRAWING No. 54-0037
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE STA. 57+50.00 DRAWING NO. 54-0037

MATCH LINE STA. 62+50.00 DRAWING NO. 54-0039



7/27/21

George Carroll

SUBMITTED BY: George W. Carroll, P.E. 0000093599
 GSWCC LEVEL II Certification Number

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

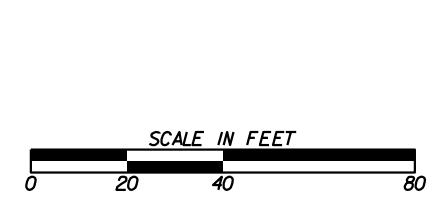
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REQ'D LIMIT OF ACCESS & R/W	---
ORANGE BARRIER FENCE	---
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	---

PLANS PREPARED AND SUBMITTED BY:

AEI
 AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT

2500 Nelson Miller Parkway
 Louisville, KY 40223
 (502) 245-3883

5160 Acworth Landing Drive
 Acworth, GA 30006
 (770) 421-8422

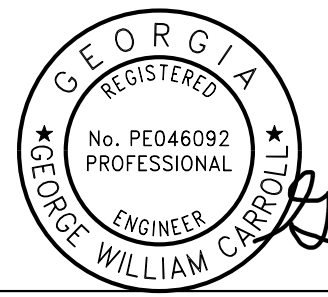
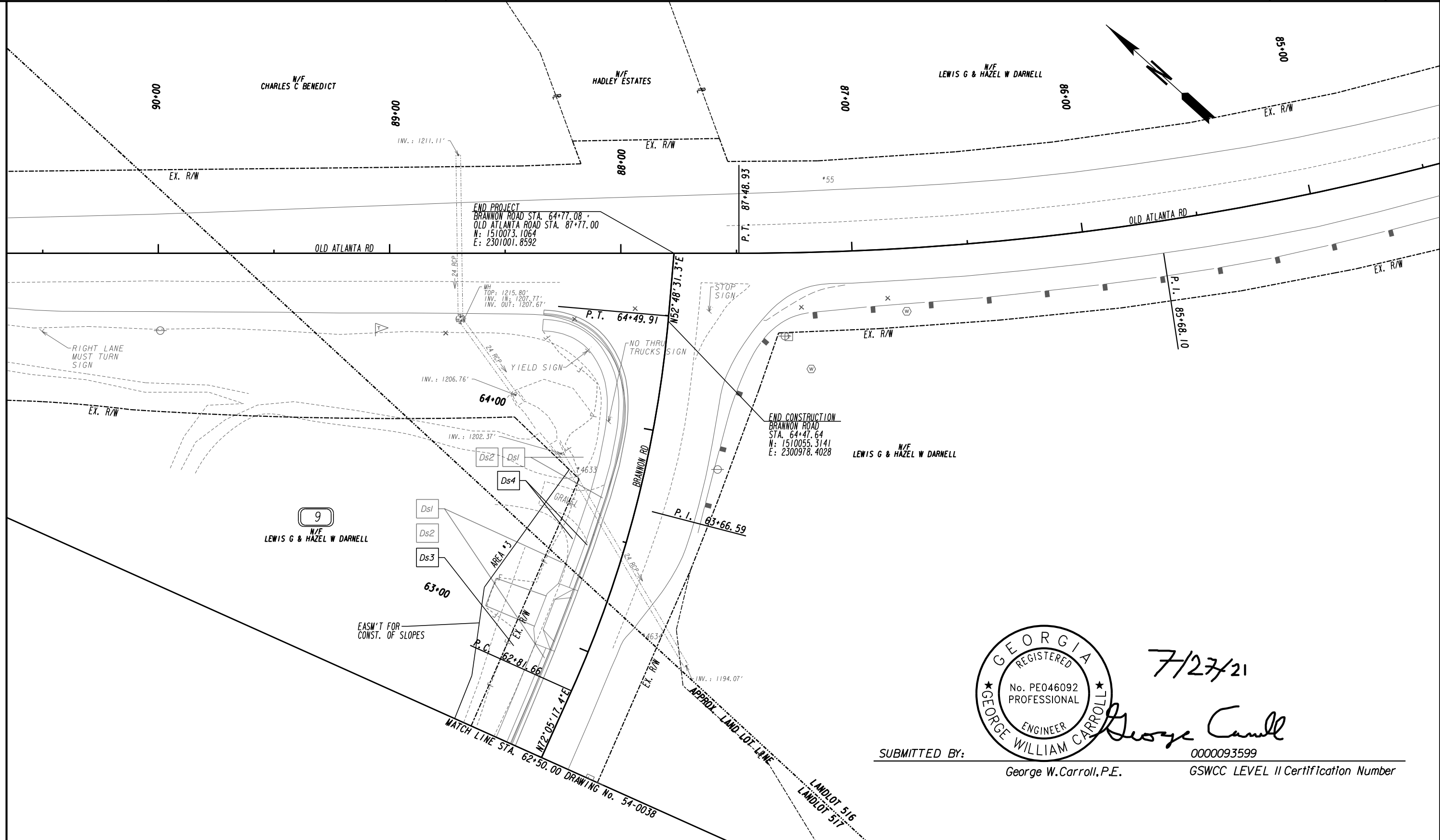


REVISION DATES	

**BMP LOCATION DETAILS
STAGE 2**

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0038
CORRECTED:	DATE:	
VERIFIED:	DATE:	



7/27/21

George Carroll

SUBMITTED BY: George W. Carroll, P.E.

0000093599
GSWCC LEVEL II Certification Number

PROPERTY AND EXISTING R/W LINE	-----e-----
REQUIRED R/W LINE	-----f-----
CONSTRUCTION LIMITS	-----c-----
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EASEMENT FOR CONSTR OF SLOPES	-----f-----
EASEMENT FOR CONSTR OF DRIVES	-----f-----

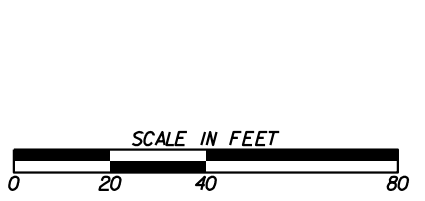
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ORANGE BARRIER FENCE	-----o-----
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----o-----

PLANS PREPARED AND SUBMITTED BY:

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AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

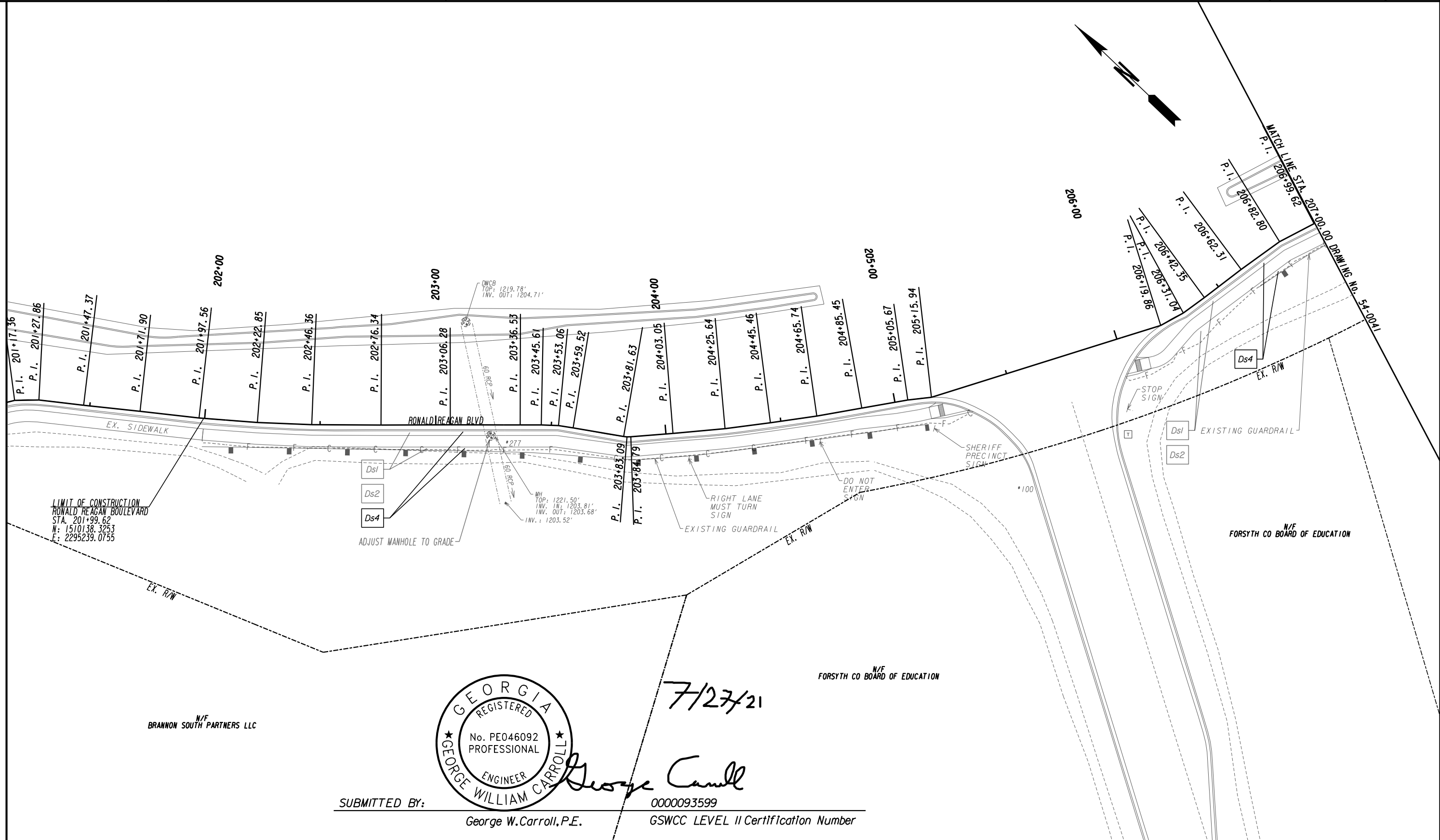
65 Aberdeen Drive
 Douglasville, GA 30095
 (770) 651-7220
 2500 Nelson Miller Parkway
 Louisville, KY 40223
 (502) 245-3853

5160 Acworth Landing Drive
 Acworth, GA 30006
 (770) 421-8422



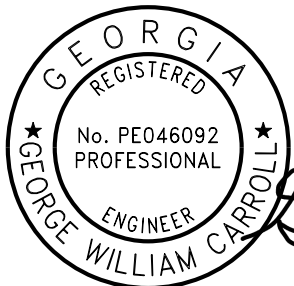
REVISION DATES	

BMP LOCATION DETAILS STAGE 2 BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
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CORRECTED:	DATE:	
VERIFIED:	DATE:	



LIMIT OF CONSTRUCTION
RONALD REAGAN BOULEVARD
STA. 201+99.62
N: 1510138.3253
E: 2295239.0755

N/F
BRANNON SOUTH PARTNERS LLC



7/27/21

George Carroll

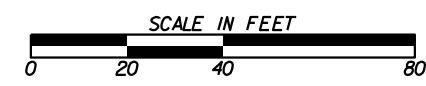
SUBMITTED BY: George W. Carroll, P.E. 0000093599
GSWCC LEVEL II Certification Number

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

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END LIMIT OF ACCESS.....ELA	-----o-----
REQ'D LIMIT OF ACCESS	-----o-----
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ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	-----o-----

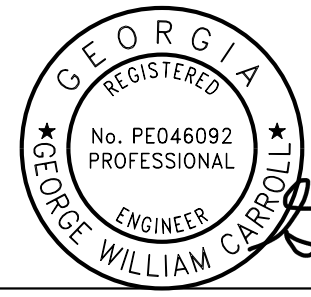
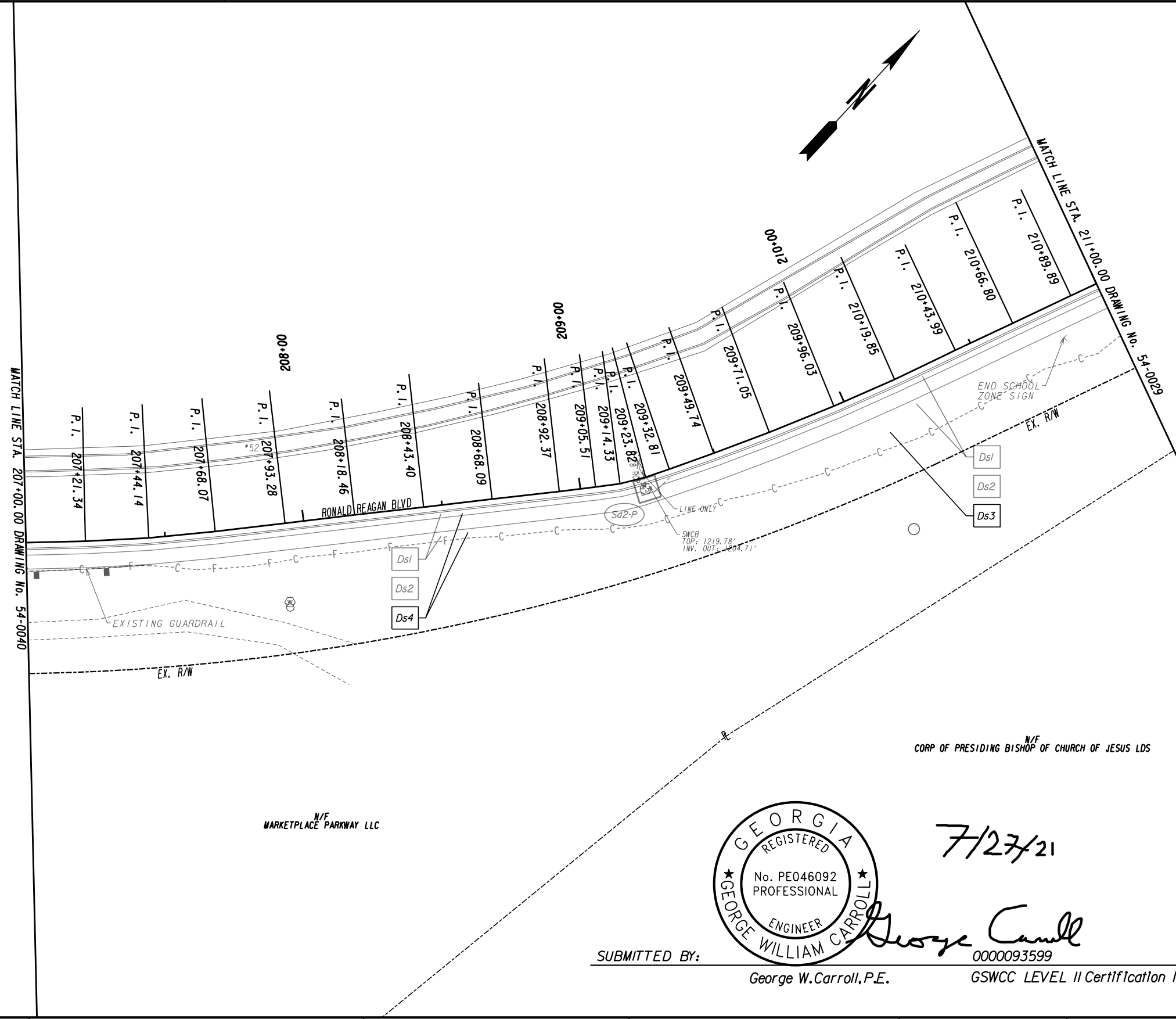
PLANS PREPARED AND SUBMITTED BY:

 AMERICAN ENGINEERS, INC.
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REVISION DATES	

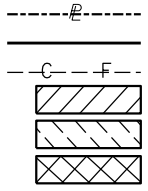
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RONALD REAGAN BOULEVARD		
CHECKED:	DATE:	DRAWING No.
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CORRECTED:	DATE:	
VERIFIED:	DATE:	



7/27/21
George Carroll

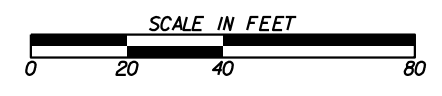
SUBMITTED BY: George W. Carroll, P.E. 0000093599
GSWCC LEVEL II Certification Number

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



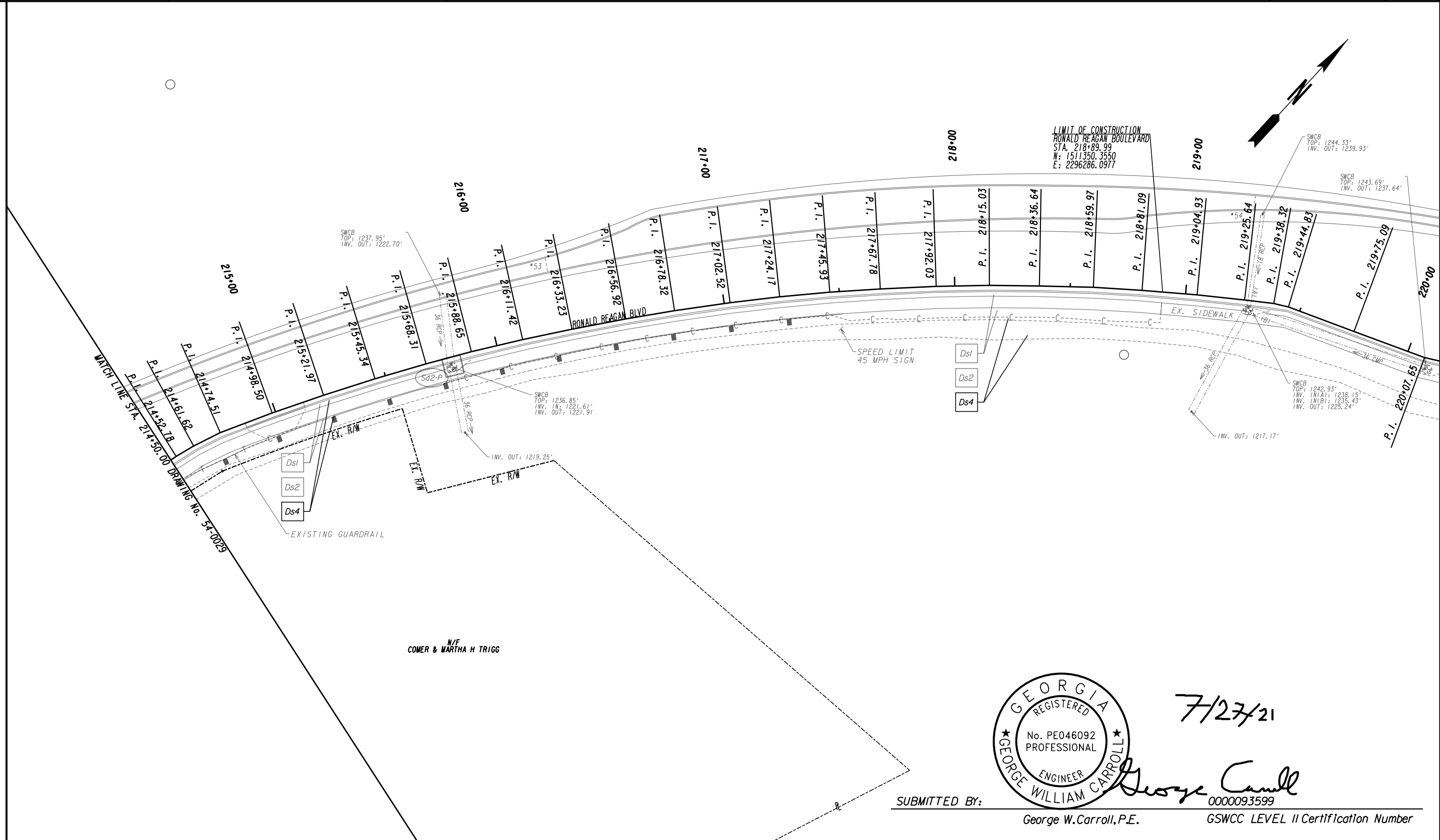
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REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)

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

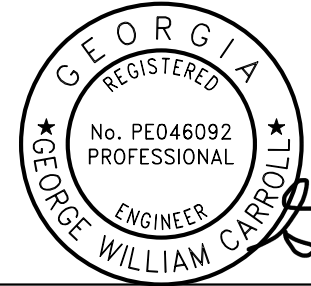


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RONALD REAGAN BOULEVARD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	54-0041
CORRECTED:	DATE:	
VERIFIED:	DATE:	



N/F
COMER & MARTHA H TRIGG



7/27/21

George Carroll

SUBMITTED BY:

George W. Carroll, P.E.

0000093599

GSWCC LEVEL II Certification Number

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	▧

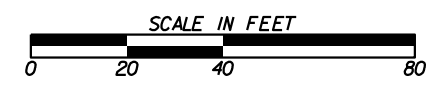
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REQ'D LIMIT OF ACCESS & R/W	---
ORANGE BARRIER FENCE	●
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	▼

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

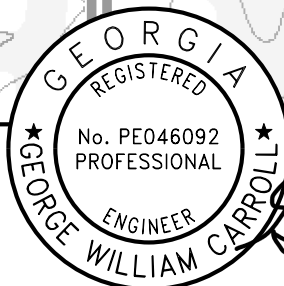
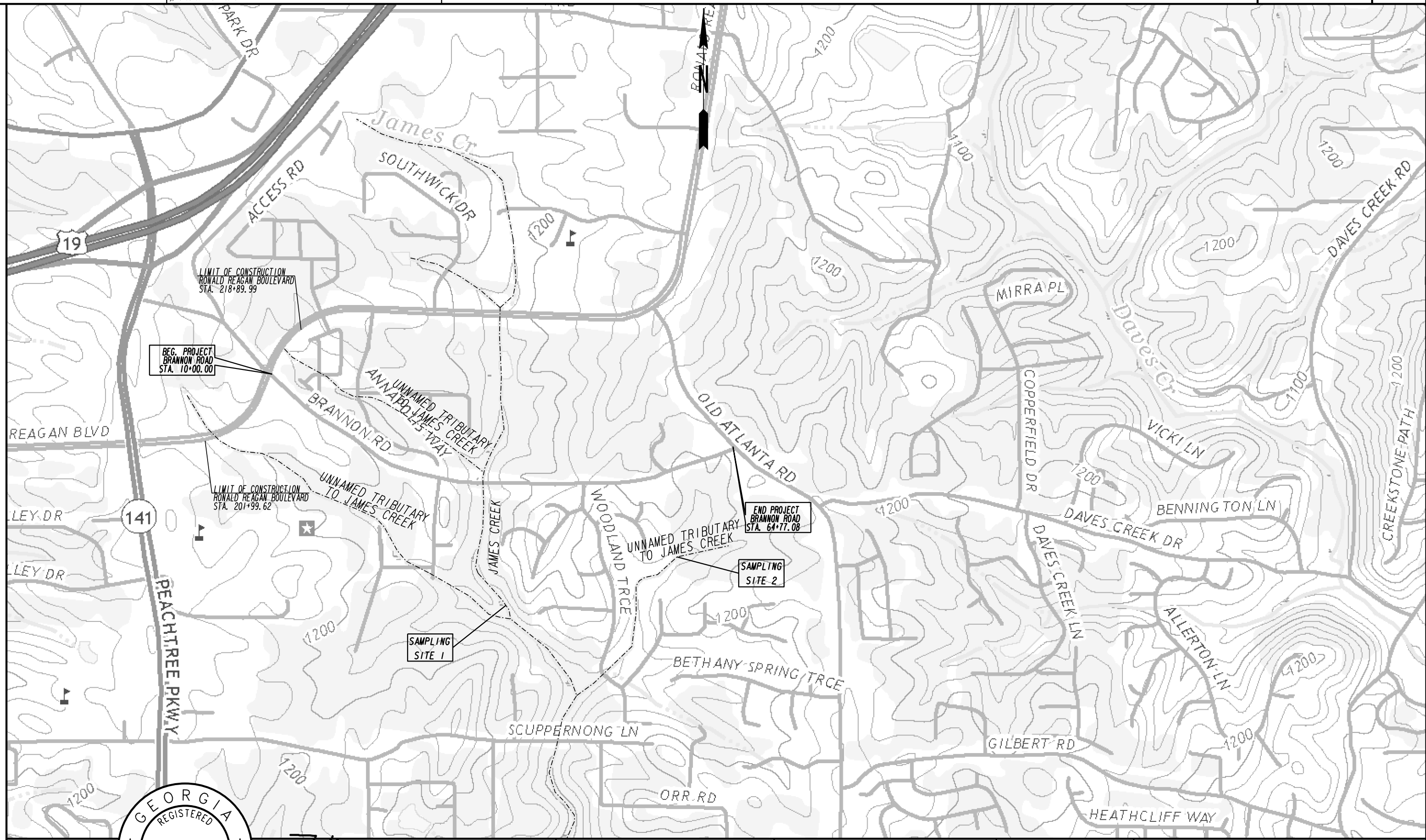
2500 Nelson Miller Parkway
Louisville, KY 40223
502-245-3883

5160 Acworth Landing Drive
Acworth, GA 30006
770-421-8422



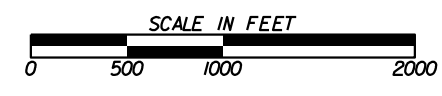
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CHECKED:	DATE:	DRAWING No. 54-0042
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	



SUBMITTED BY: *George Carroll*
 George W. Carroll, P.E.
 0000093599
 GSWCC LEVEL II Certification Number

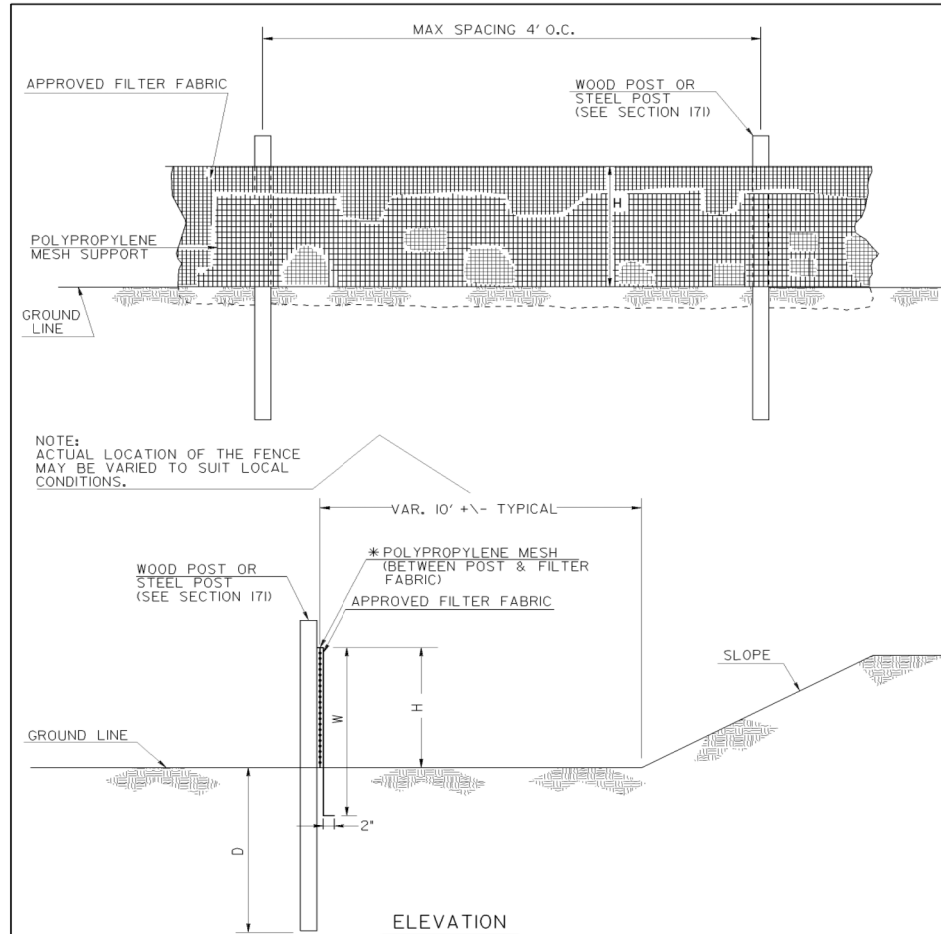
PLANS PREPARED AND SUBMITTED BY:
AEI
 AMERICAN ENGINEERS, INC.
 DESIGN CONSULTANT



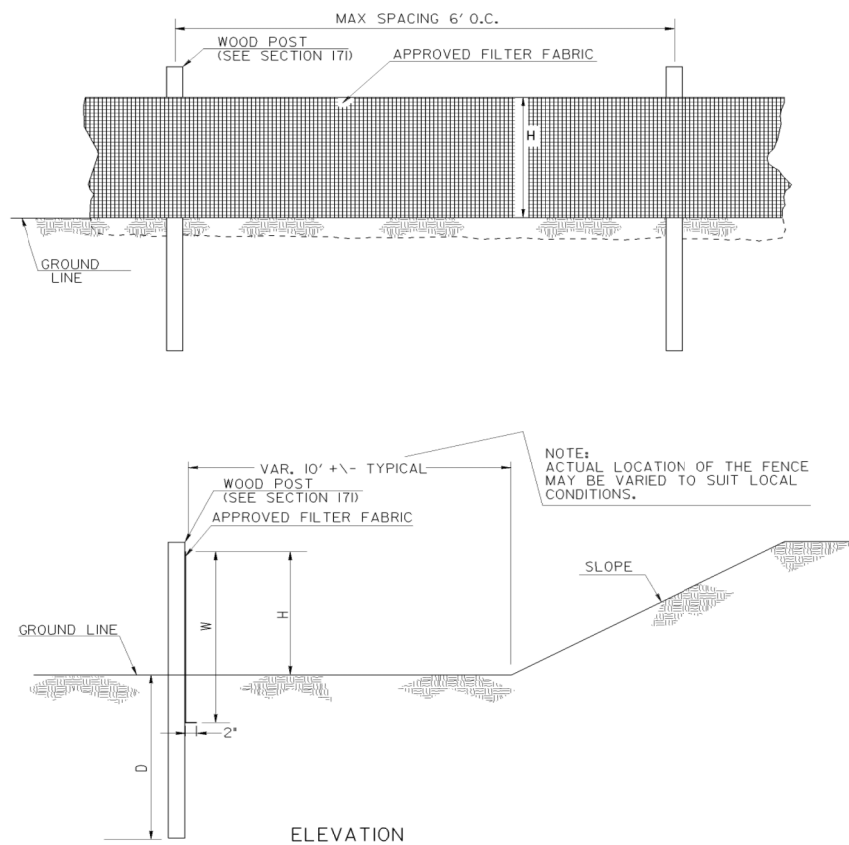
REVISION DATES	

WATERSHED MAP SITE MONITORING PLAN		
BRANNON ROAD		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	55-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

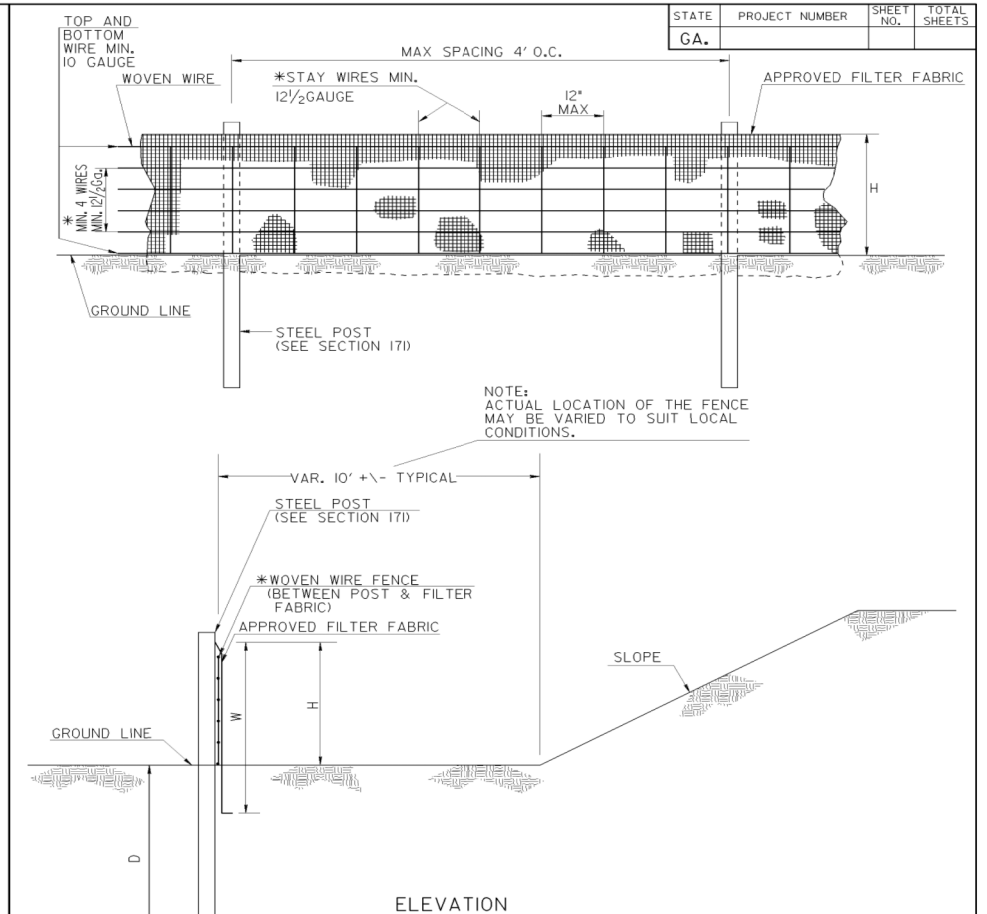
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SINGLE ROW TYPE C SILT FENCE WITH POLYPROPYLENE MESH SUPPORT



SINGLE ROW TYPE A SILT FENCE



SINGLE ROW TYPE C SILT FENCE WITH WOVEN WIRE SUPPORT

FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE 'A'	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE 'C'	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.

NOTES:

- WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST 1/2 INCHES LONG AND A CROWN AT LEAST 3/4 INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1 INCH LONG, WITH BUTTON HEADS AT LEAST 3/4 INCHES WIDE.
- NAILS OR STAPLES SHALL BE EVENLY PLACED WITH AT LEAST 5 PER POST FOR TYPE A FENCE AND 4 PER POST FOR TYPE C FENCE.
- THE VERTICAL WIRES FOR THE WOVEN WIRE SUPPORT FENCE SHALL HAVE A MAXIMUM SPACING OF 12 INCHES. THE TOP AND BOTTOM WIRES SHALL BE AT LEAST 10 GAUGE AND ALL OTHER WIRES SHALL BE AT LEAST 12 1/2 GAUGE.
- TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
- SEE SECTION 17I FOR SILT FENCE SPECIFICATIONS.
- SEE SECTION 894 FOR FENCING SPECIFICATIONS.
- SEE OPL-36 FOR A LIST APPROVED SILT FENCE FABRIC.
- TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS TEMPORARY SILT FENCE	
BY		NO SCALE	REV. AND REDRAWN JAN. 2011
		NUMBER D-24A (SHEET 1 OF 4)	

1/18/2011 1:25:13 PM \\GDOT-DSN1\G0PLOT\OCF\G0_K1p8000.qcf gowens V:\GARY\Rev. Construction Details\D-24A\D-24A.prf

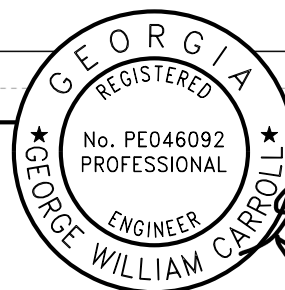
PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

560 Acworth Landing Drive
Knoxville, TN 37909
(615) 421-8422

2500 Nelson Miller Parkway
Louisville, KY 40223
(502) 245-3815

PROFESSIONAL ENGINEERING



SUBMITTED BY:

George W. Carroll, P.E.

7/27/21
George Carroll
0000093599

GSWCC LEVEL II Certification Number

REVISION DATES

NO.	DATE	DESCRIPTION

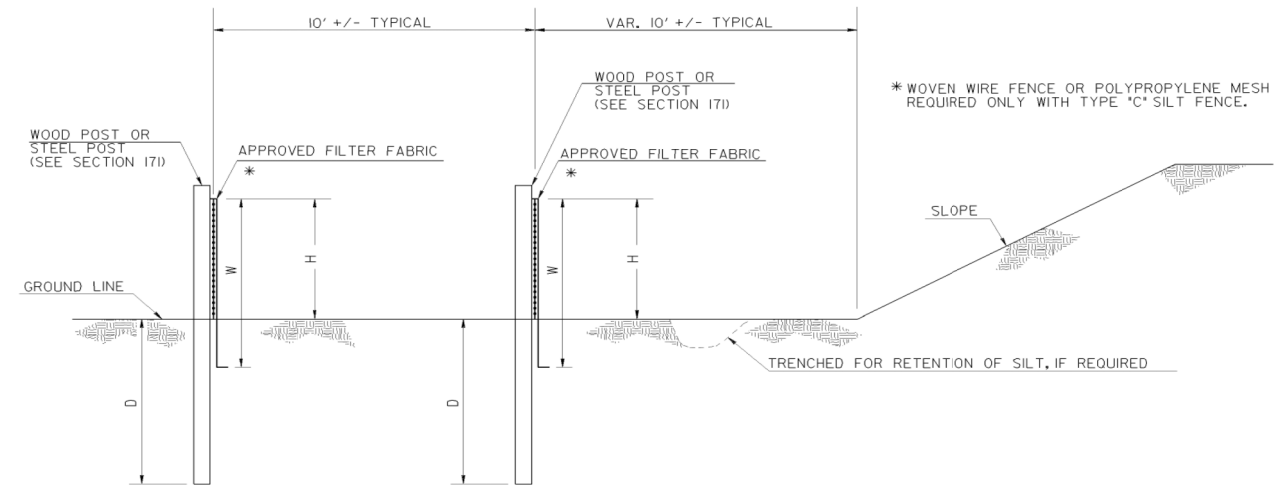
ESPCP DETAILS

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	56-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

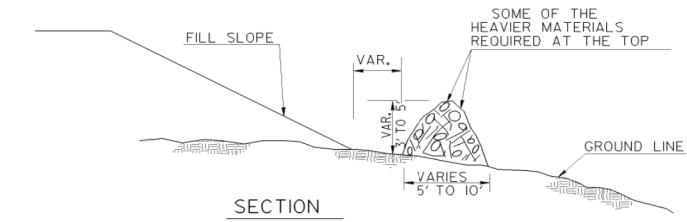
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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



ELEVATION
DOUBLE ROW SILT FENCE

FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE 'A'	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE 'C'	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.



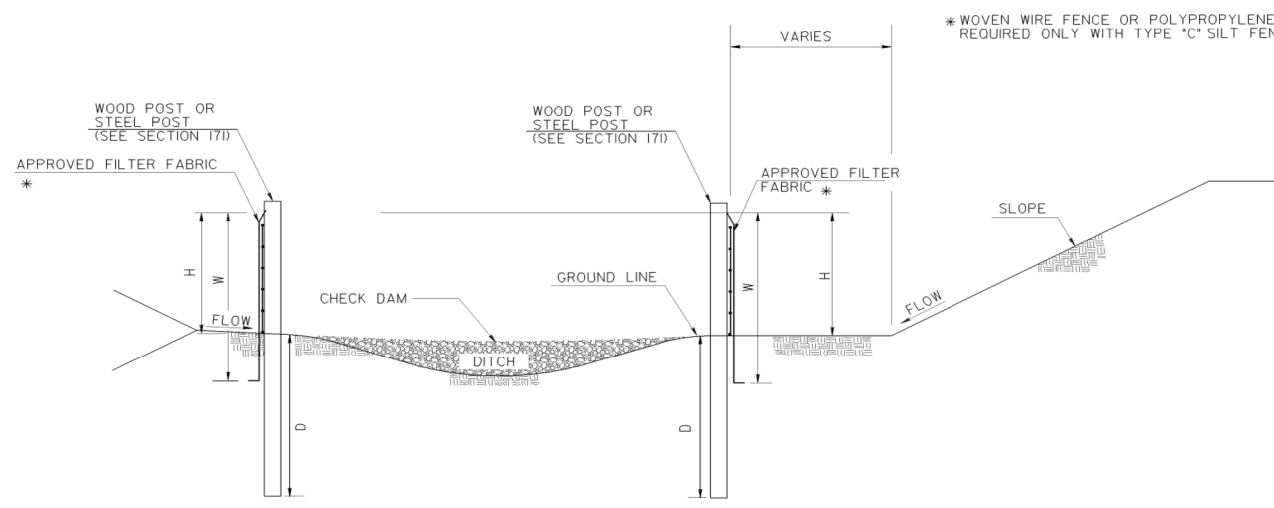
SECTION

NOTE: INTERMINGLE BRUSH, LOGS, ETC. SO AS NOT TO FORM A SOLID DAM.



FRONT VIEW

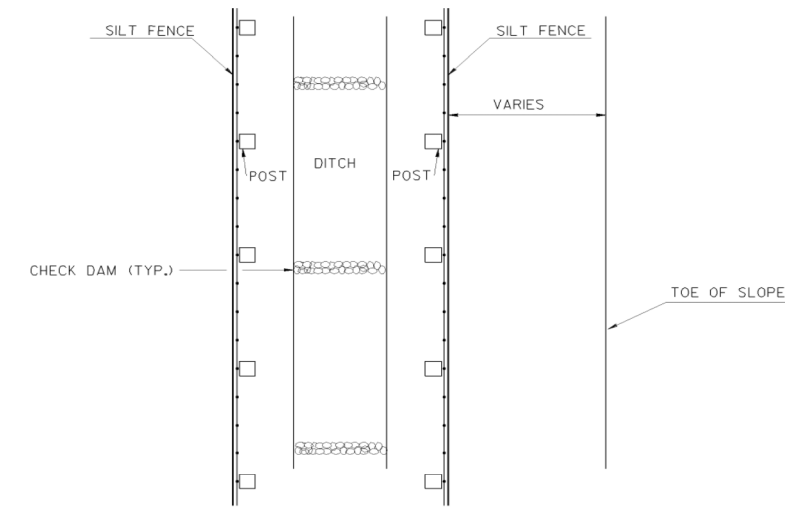
BRUSH BARRIER DETAILS
(FOR USE IN RURAL AREAS)



ELEVATION

SILT FENCE
PERIMETER INSTALLATION ALONG DITCH SECTION

FENCE TYPE	POST LENGTH	H	D	W	TYPICAL USES
TYPE 'A'	4 FT.	2'-4"	1'-6"	3'-0"	
TYPE 'C'	4 FT.	2'-4"	1'-6"	3'-0"	AT BRIDGE END ROLLS, DOUBLE ROW ALONG STREAMS, WETLANDS AND ENVIRONMENTALLY SENSITIVE AREAS FOR USE OF THIS MATERIAL IN FABRIC CHECKDAMS SEE D-24D.



PLAN

NOTE: TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS.

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH BARRIER	
BY		NO SCALE	REV. AND REDRAWN JAN, 2011
		NUMBER D-24B (SHEET 2 OF 4)	

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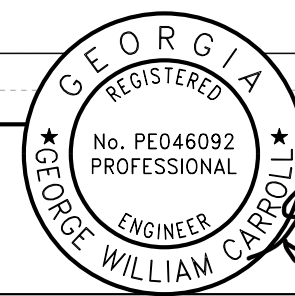
PLANS PREPARED AND SUBMITTED BY:

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George W. Carroll, P.E. 0000093599
GSWCC LEVEL II Certification Number

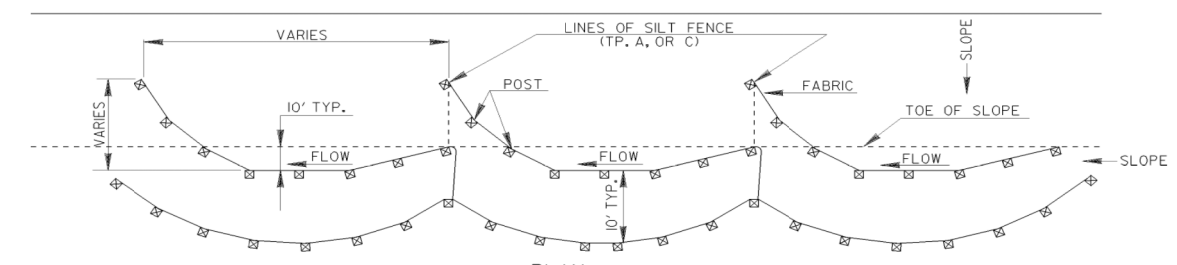
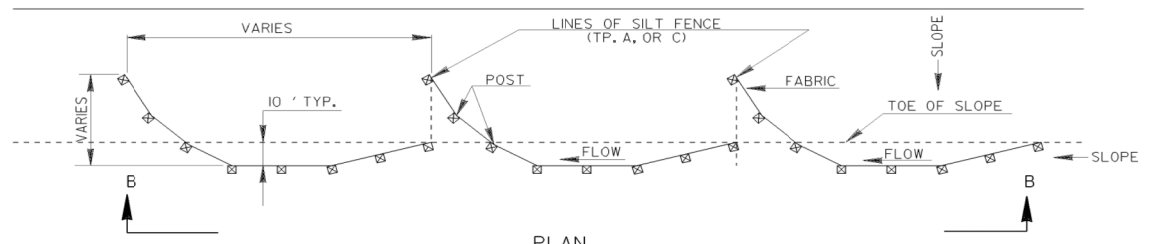
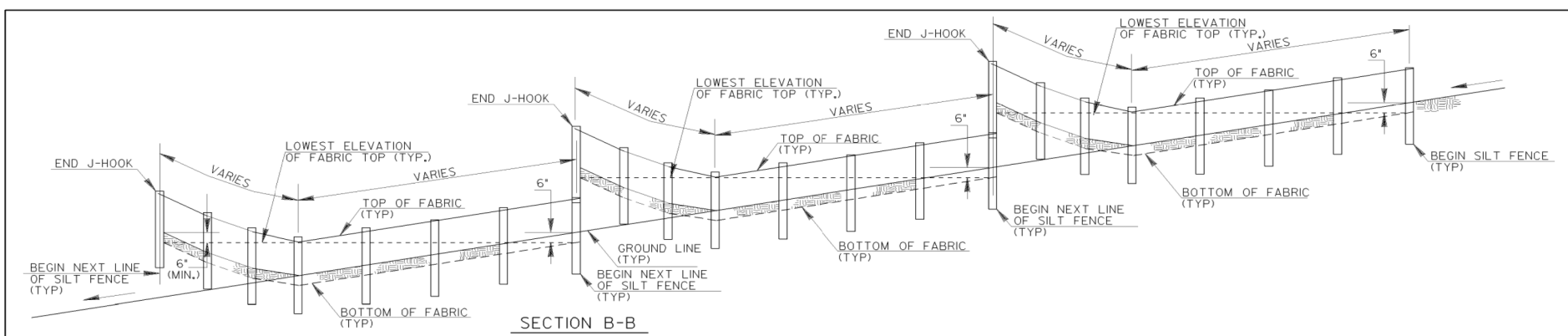
REVISION DATES	

ESPCP DETAILS

BRANNON ROAD

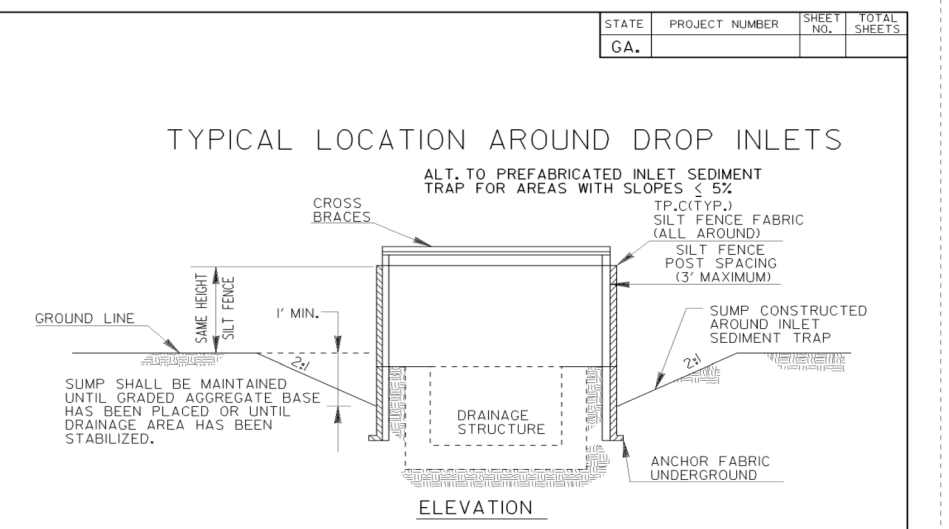
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VERIFIED:	DATE:	

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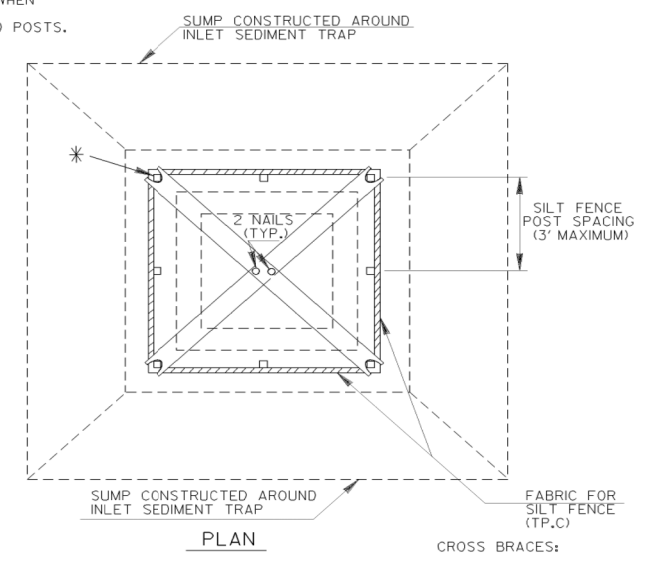


TYPICAL J HOOK SPACING		
SLOPE PERCENT	TYPE OF SILT FENCE	MINIMUM SPACING (FEET)
1% TO 2%	TYPE A	100' ±
2% TO 3%	TYPE A	50' ±
3% TO 4%	TYPE C	50' ±
4% TO 5%	TYPE C	25' ±

- NOTE:
- IF THE GRADE IS BETWEEN 0 TO 1 PERCENT, THE SILT FENCE SHALL BE PLACED ACROSS THE DITCH.
 - TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS.

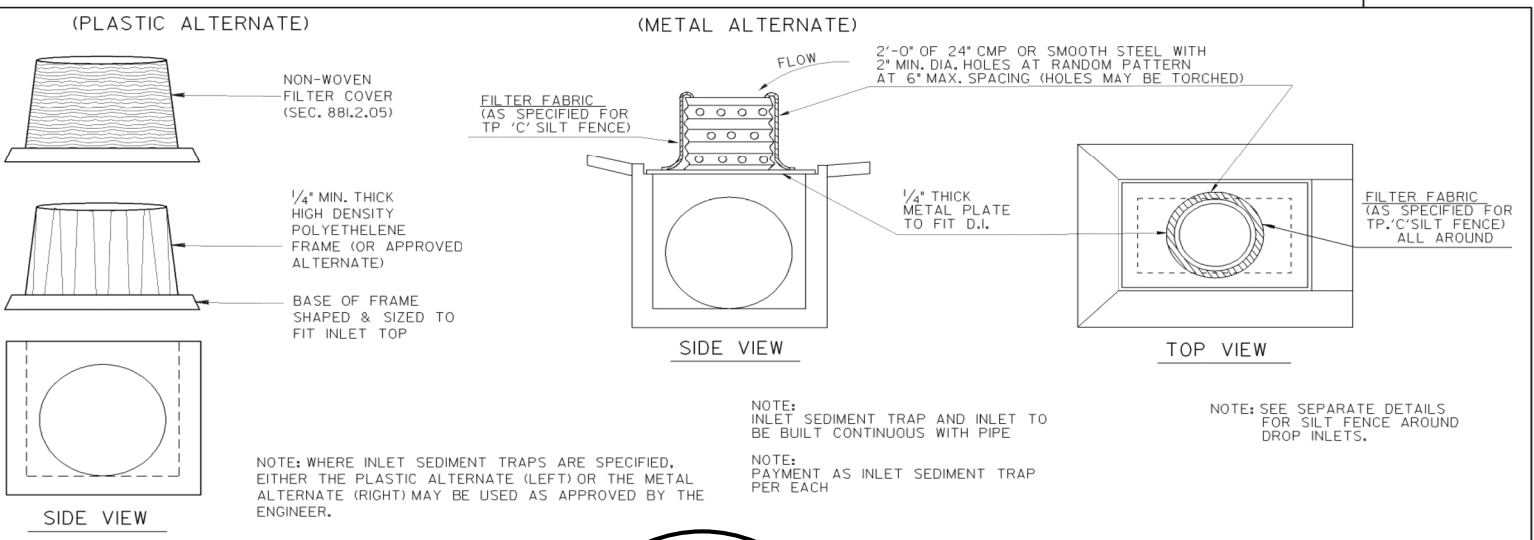


* CROSS BRACING REQUIRED WHEN USING "ALTERNATE" TYPE C PRODUCTS WHICH USE WOOD POSTS.



NOTE: PAYMENT AS INLET SEDIMENT TRAP PER EACH.
NOTE: SEE SEPARATE SHEET ENTITLED "TEMPORARY SILT FENCE DETAILS" FOR SILT FENCE ERECTION DETAILS.

- NOTE: THE DRAINAGE AREA ENTERING THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.
- TYPICAL CONSTRUCTION SEQUENCE FOR INLET SEDIMENT TRAP ALTERNATE
- EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
 - PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
 - SLIDE THE FILTER OVER THE FRAME.
 - FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
 - BACK FILL AROUND THE FRAME AND FILTER ASSEMBLY IS NOT REQUIRED TO COMPLETE INSTALLATION; HOWEVER, BACK FILLING MAY BE NECESSARY TO COMPLETE EXCAVATION REQUIREMENTS FOR THE SITE.
- NOTE: INLET SEDIMENT TRAP ALTERNATE SHALL BE AS APPROVED BY THE GA. D.O.T. OFFICE OF MATERIALS & RESEARCH. DETAILS & SPECIFICATIONS NOT SHOWN ARE PER THE MANUFACTURER'S REQUIREMENTS.



DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS TEMPORARY SILT FENCE J-HOOK, INLET SEDIMENT TRAPS	
BY		NO SCALE	JANUARY 2011
			NUMBER D-24C (SHEET 3 OF 4)

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GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. PE046092
GEORGE WILLIAM CARROLL

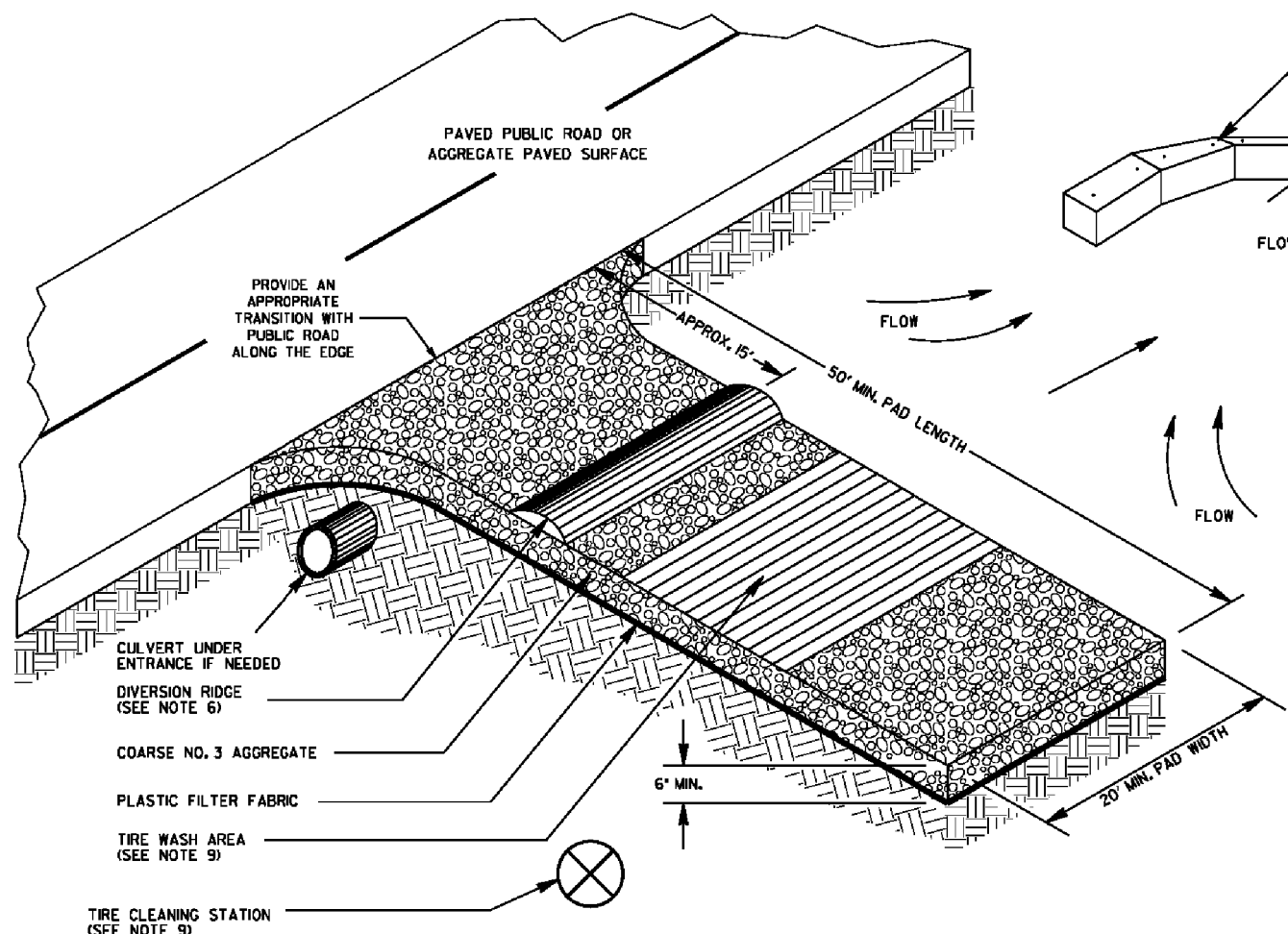
SUBMITTED BY: *George Carroll*
George W. Carroll, P.E.
0000093599
GSWCC LEVEL II Certification Number

REVISION DATES

ESPCP DETAILS
BRANNON ROAD

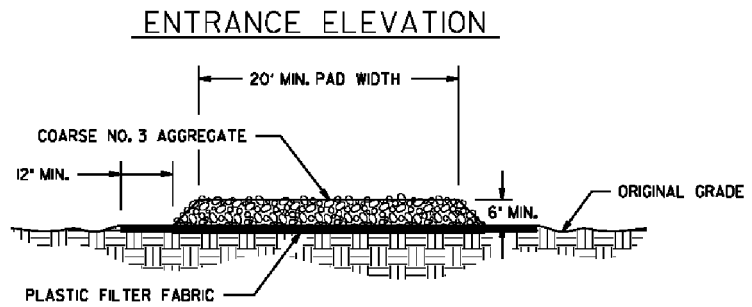
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VERIFIED:	DATE:	

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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- GENERAL NOTES:**
1. AVOID LOCATING CONSTRUCTION EXITS ON STEEP SLOPES OR AT SHARP CURVES ON PUBLIC ROADS. CONSTRUCTION EXITS ARE NOT REQUIRED FOR DIRT PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA AND GRADE FOR POSITIVE DRAINAGE.
 3. AGGREGATE SIZE SHALL BE COARSE NO. 3 AGGREGATE WITH 0.0% PASSING THE 1.06 INCH U.S. STANDARD SIEVE.
 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND PLACED ON APPROVED PLASTIC FILTER FABRIC.
 5. GRAVEL PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 6. PROVIDE A TRAVERSABLE DIVERSION RIDGE CONSTRUCTED OF AGGREGATE 6 INCHES TO 8 INCHES HIGH WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 7. INSTALL CULVERT UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 8. TIRE WASH AREA INCLUDES SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE AND SHALL BE CONSTRUCTED EVEN IF CONSTRUCTION EXIT TIRE CLEANING STATION IS NOT USED.
 9. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD PRIOR TO ENTERING PUBLIC ROADS THUS DICTATING ADDITIONAL TIRE CLEANING MEASURES, THE CONTRACTOR SHALL ADD A CONSTRUCTION EXIT TIRE CLEANING STATION TO AN EXISTING CONSTRUCTION EXIT OR WHEN DIRECTED BY THE ENGINEER, THE CONSTRUCTION EXIT TIRE CLEANING STATION INCLUDES: WATER SOURCE, LABOR AND ALL MATERIALS NECESSARY TO PERFORM TASK. THIS WILL BE PAID FOR AS SHOWN IN SECTION 163.
 10. THE WASHING SHALL BE DONE ON AN AREA STABILIZED WITH AGGREGATE THAT DRAINS INTO A SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE CONSTRUCTION EXIT TO THE SEDIMENT CONTROL DEVICE. ACCEPTABLE SEDIMENT STORAGE DEVICE EXAMPLES INCLUDE TEMPORARY SEDIMENT TRAPS, HAY BALES OR STONE FILTER RING WITH THE SEDIMENT STORAGE SIZED FOR 67 CUBIC YARDS PER ACRE OF DRAINAGE. TIRE WASHING SHALL BE DONE MANUALLY OR BY EQUIPMENT SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.
 11. AGGREGATE SHALL BE KEPT LOOSE OR SCARIFIED WHEN AGGREGATE BECOMES CONSOLIDATED.
 12. CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS, THIS MAY REQUIRE TOP DRESSING, REPAIR, AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. MAINTENANCE OF CONSTRUCTION EXIT MAY BE PAID WITH OR WITHOUT THE MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA, WHEN DIRECTED BY THE ENGINEER. ALL MUD AND DEBRIS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- SEE SECTION 163 FOR THE CONSTRUCTION AND REMOVAL OF CONSTRUCTION EXITS. SEE SECTION 165 FOR THE MAINTENANCE OF CONSTRUCTION EXITS.

PAY ITEM:	CONSTRUCT AND REMOVE CONSTRUCTION EXITS	(EA)
163-0301	MAINTENANCE OF CONSTRUCTION EXIT	(EA)
165-0101	MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH AREA	(EA)
165-0310		
PAY ITEM:	FOR FIELD USE ONLY ACCORDING TO SECTION 163	
163-0310	CONSTRUCTION EXIT TIRE CLEANING STATION	(DAY)



11-04-20				DEPARTMENT OF TRANSPORTATION			
STATE OF GEORGIA				CONSTRUCTION DETAILS			
CONSTRUCTION EXIT				NO SCALE			
FEBRUARY 2001				NUMBER D-41			
HAC	REV. GEN. NOTES	* B-H	DATE	DESIGNED	DRAWN	TRACED	CHECKED
	REV. PAY ITEM	DESCRIBES	DATE				
	REV. TIRE WASH	NOTES	DATE				
	REV. GSWCC	2016 MANUAL	DATE				
	REV. CONSTR. EXIT	LABELS	DATE				
	REV. CONSTR. EXIT	REVISION	DATE				

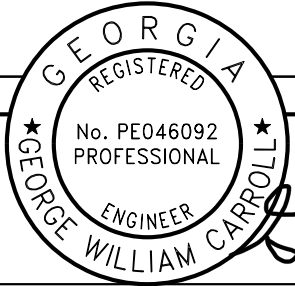
PLANS PREPARED AND SUBMITTED BY:

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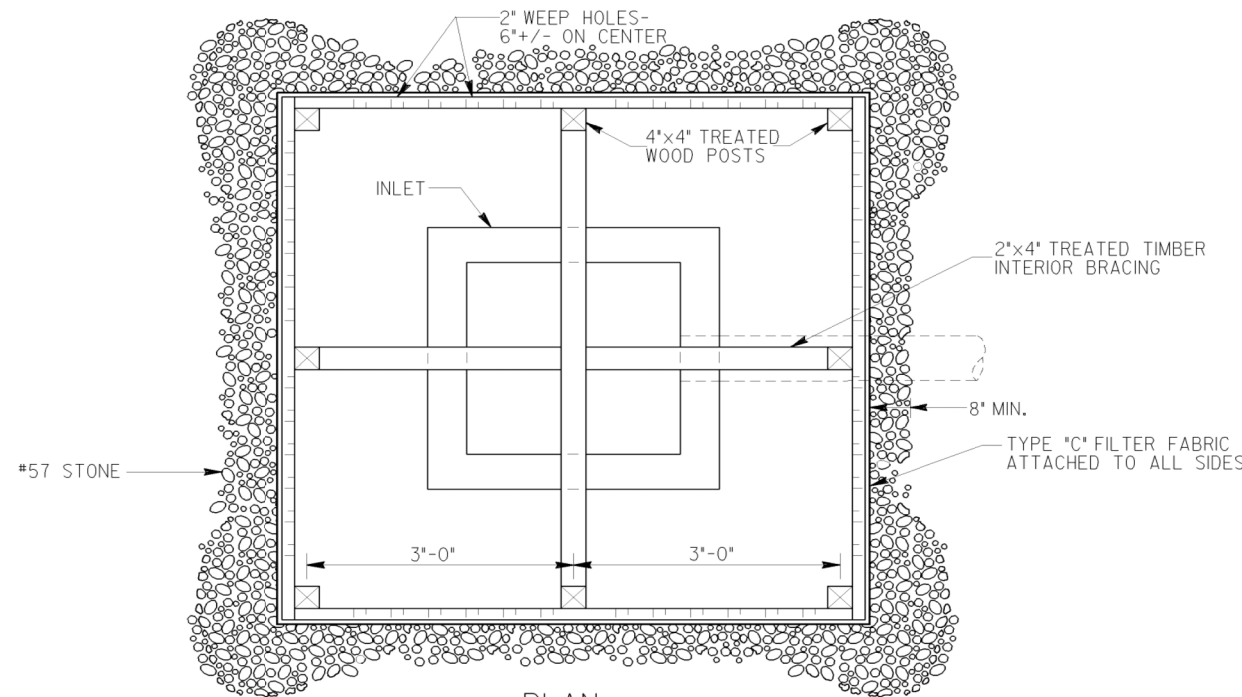
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George W. Carroll, P.E. GSWCC LEVEL II Certification Number 0000093599

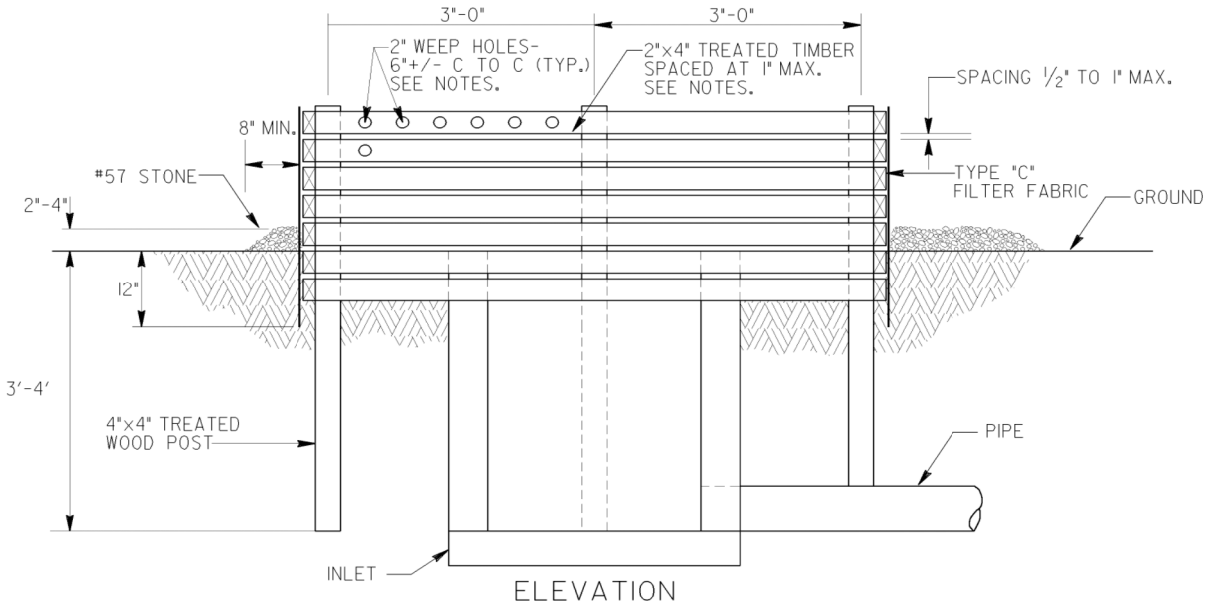
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BRANNON ROAD			
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VERIFIED:	DATE:		

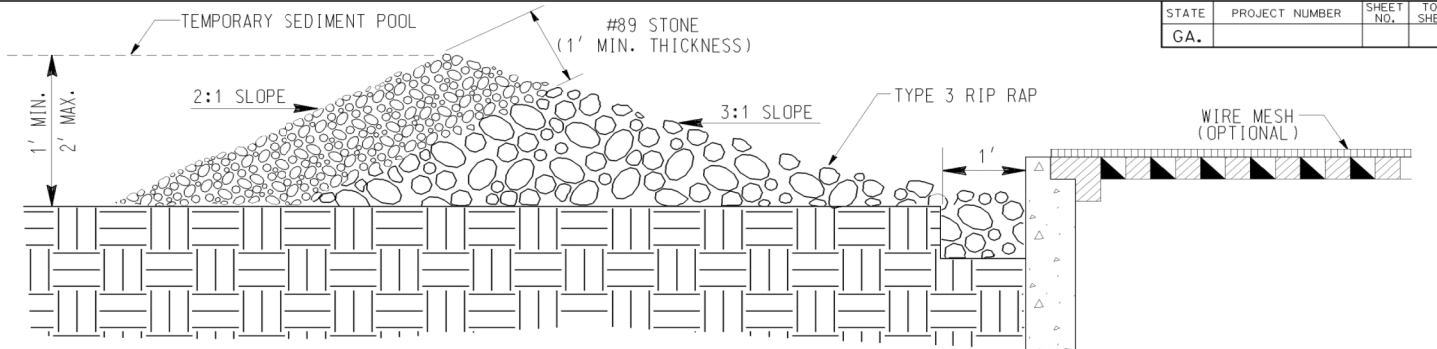


NOTES:
 BAFFLE BOX SHALL BE CONSTRUCTED OF 2"x4" TREATED TIMBER SPACED A MAXIMUM OF 1' APART OR OF PLYWOOD WITH WEEP HOLES 2" IN DIAMETER PLACED APPROXIMATELY 6" ON CENTER VERTICALLY AND HORIZONTALLY.

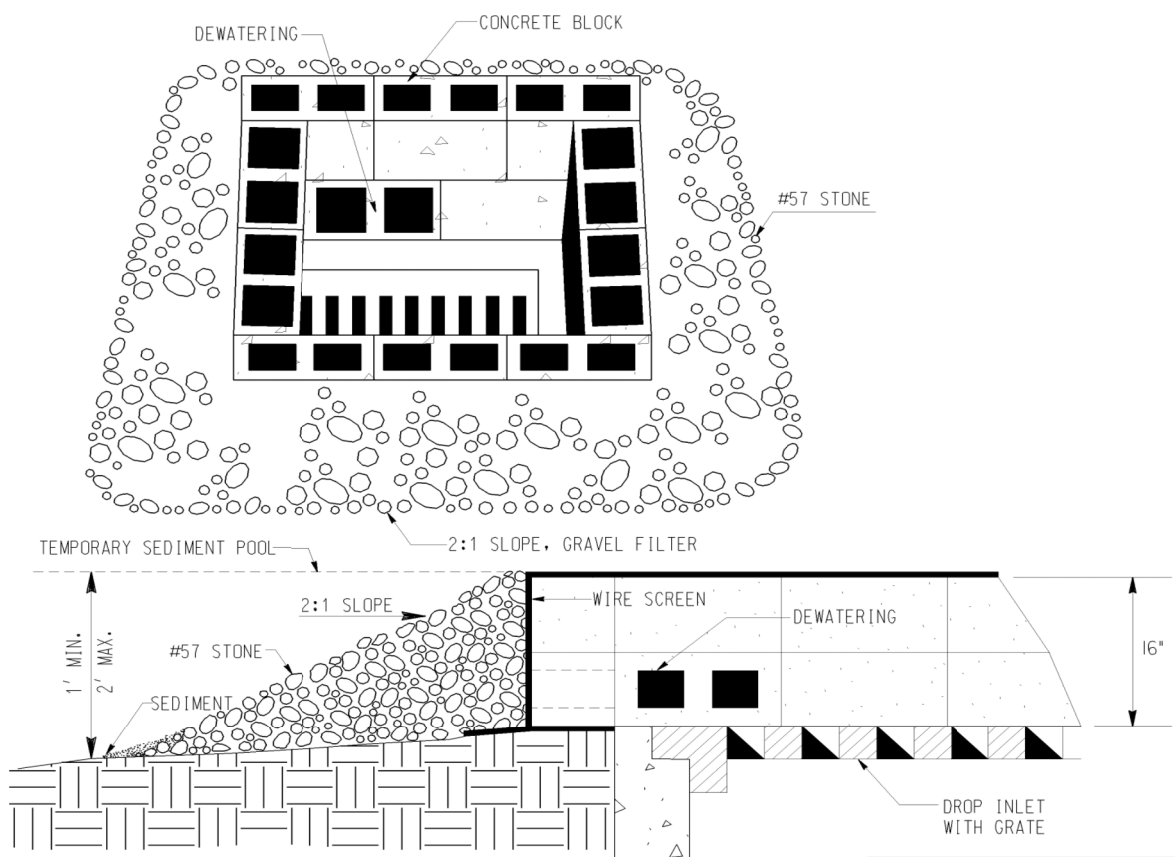
GRAVEL SHALL BE PLACED OUTSIDE THE BOX, ALL AROUND THE INLET, TO A DEPTH OF 2 TO 4 INCHES. THE ENTIRE BOX SHALL BE WRAPPED IN TYPE "C" FILTER FABRIC THAT SHALL BE ENTRENCHED 12 INCHES AND BACKFILLED.



BAFFLE BOX (Sd2-B)



GRAVEL DROP INLET PROTECTION (GRAVEL DONUT) Sd2-G

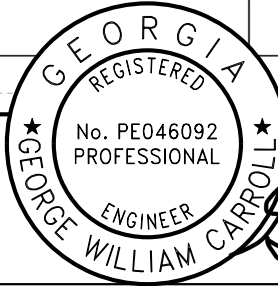


BLOCK & GRAVEL DROP INLET PROTECTION (Sd2-Bg)

BASIS OF PAYMENT:
CONSTRUCT AND REMOVE INLET SEDIMENT TRAP _____ EACH

DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
REVISION	CONSTRUCTION DETAIL INLET SEDIMENT TRAPS BAFFLE BOX Sd2-B BLOCK AND GRAVEL DROP INLET PROTECTION Sd2-Bg GRAVEL DROP INLET PROTECTION Sd2-G NO SCALE MAY 2008
BY	NUMBER D-42

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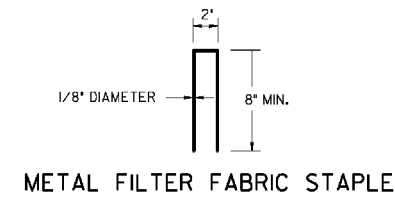
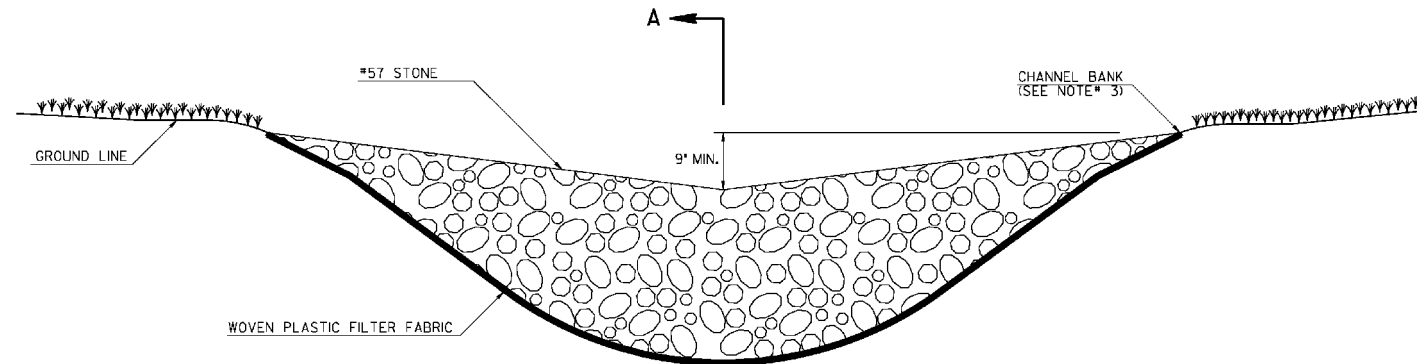
7/27/21
 George Carroll
 0000093599
 GSWCC LEVEL II Certification Number

REVISION DATES	

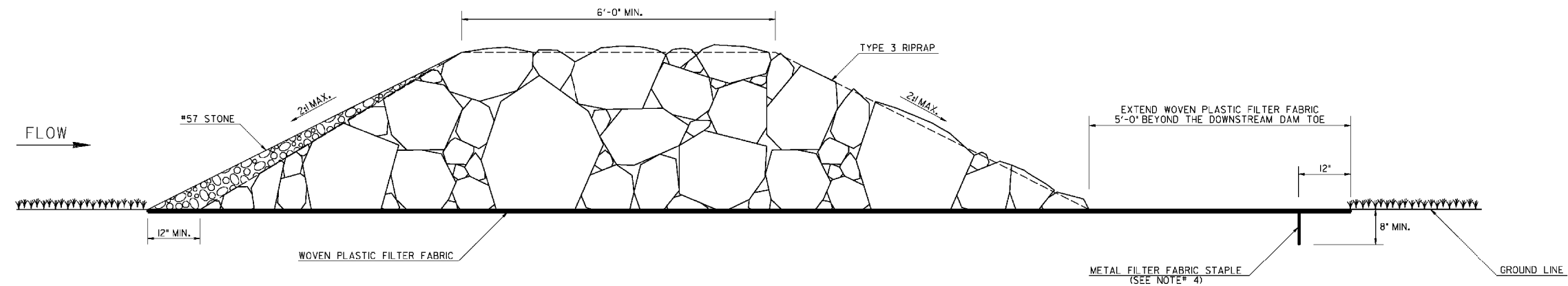
ESPCP DETAILS
 BRANNON ROAD

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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



SECTION A-A



GENERAL NOTES:

1. THE MAXIMUM DRAINAGE AREA TO A ROCK FILTER DAM SHALL BE 50-ACRES.
2. ROCK FILTER DAMS SHALL NOT BE INSTALLED IN STATE WATERS.
3. THE ROCK FILTER DAM SHOULD NOT BE HIGHER THAN THE CHANNEL BANKS OR ADVERSELY IMPACT UPSTREAM PROPERTY OR STATE WATERS WITH BACKWATER. THE CENTER OF THE ROCK FILTER DAM SHOULD BE AT LEAST 9-INCHES LOWER THAN THE OUTER EDGES OF THE ROCK FILTER DAM AT THE CHANNEL BANKS.
4. ANCHOR THE WOVEN PLASTIC FILTER FABRIC TO THE GROUND SURFACE WITH METAL FILTER FABRIC STAPLES 12-INCHES FROM THE EDGE AND NO GREATER THAN 12-INCHES APART.
5. REMOVE SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE ROCK FILTER DAM. WOVEN PLASTIC FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED OR DETERIORATED.

PAY ITEMS:

- 163-0541 CONSTRUCT AND REMOVE ROCK FILTER DAM (EA)
- 165-0110 MAINTENANCE OF ROCK FILTER DAM (EA)

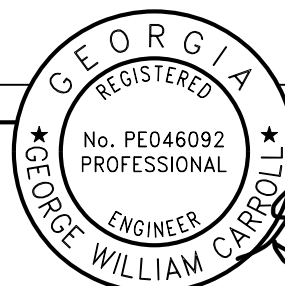
DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
CONSTRUCTION DETAILS ROCK FILTER DAM	
NO SCALE	4-22-2016
BY:	NUMBER D-43

PLANS PREPARED AND SUBMITTED BY:

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George W. Carroll, P.E.

7/27/21
George Carroll
0000093599

GSWCC LEVEL II Certification Number

REVISION DATES

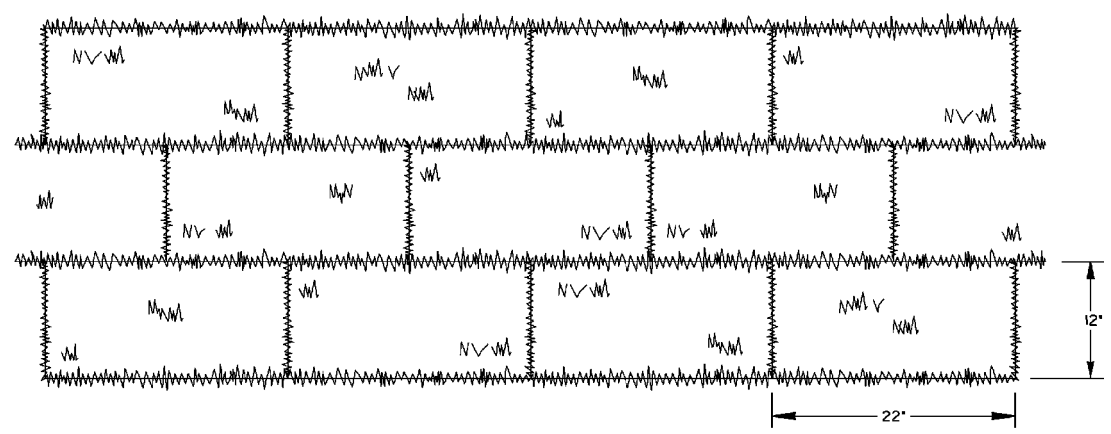
ESPCP DETAILS

BRANNON ROAD

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BACKCHECKED:	DATE:	56-0007
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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

SOD LAYOUT

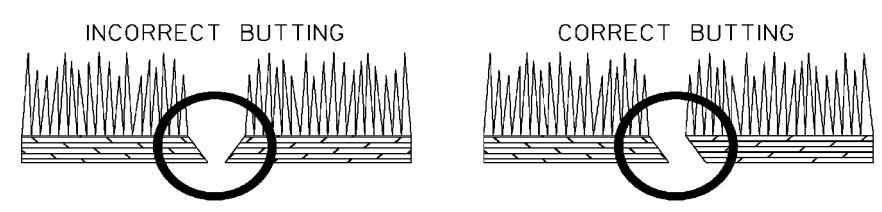


NOTE: SOD MAY BE EITHER 12" WIDE BY 22" LONG BLOCKS OR 21" WIDE BY 52" LONG ROLLS.

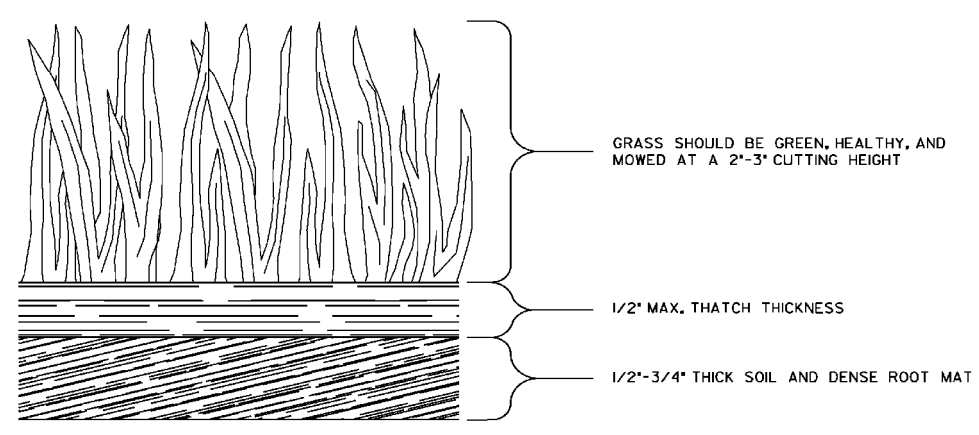
GENERAL NOTES:

- SOD SHALL MEET SECTIONS 700 AND 890 OF THE STANDARD SPECIFICATIONS AND SUPPLEMENTS THERETO. SOD SHALL BE CUT INTO 12"Wx22"L BLOCKS OR 21"Wx52"L ROLLS.
- PLACE SOD IN A STAGGERED PATTERN ENSURING FIRM CONTACT WITH THE SOIL. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER WITH THE AUTOMATIC SOD CUTTER ANGLES CORRECTLY MATCHED WITHOUT SPACES OR OVERLAP.
- PLACE THE LONG SIDE OF SOD PERPENDICULAR TO DRAINAGE FLOW IF INSTALLED IN DITCHES.
- STAKE SOD PLACED IN DITCHES OR SLOPES STEEPER THAN 2:1 OR ANY OTHER AREAS WHERE SOD SLIPPING MAY OCCUR. USE WOOD STAKES THAT ARE A MINIMUM OF 8" LONG AND A MAXIMUM OF 1" WIDE. DRIVE STAKES FLUSH WITH THE TOP OF SOD AND USE A MINIMUM OF 8 STAKES PER SQUARE YARD TO HOLD SOD IN PLACE.
- ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL.
- WATER THE SOD IMMEDIATELY AFTER INSTALLATION AND WATER TO A DEPTH OF 4" AS NEEDED.
- MOW ESTABLISHED SOD TO A HEIGHT NOT LESS THAN 2"-3" AS NECESSARY.

ABUTTING SOD



SOD APPEARANCE



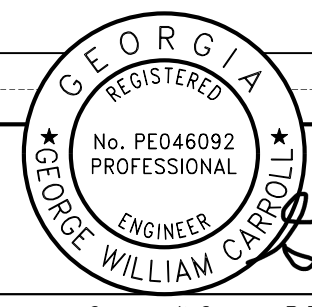
PAY ITEM:
700-9300 SOD (SY)

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS SOD INSTALLATION	
NO SCALE		4-22-2016	
BY	DESIGNED DRAWN TRACED CHECKED	DLE _____ _____ _____	NUMBER D-54

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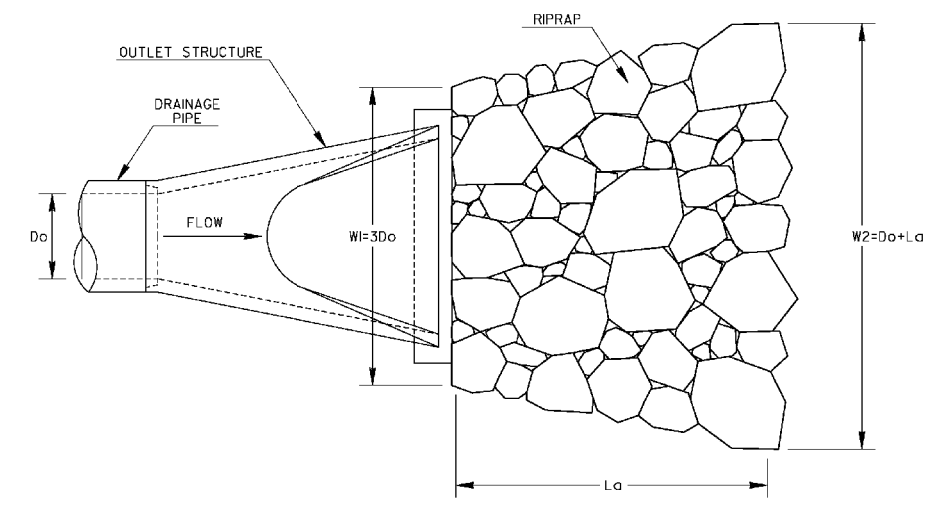


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George W. Carroll, P.E. GSWCC LEVEL II Certification Number 0000093599

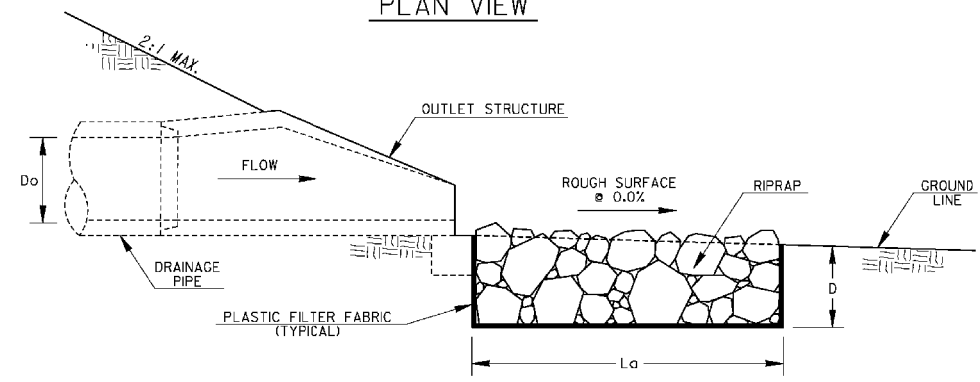
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CORRECTED:	DATE:		
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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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OUTLET TO FLAT AREA

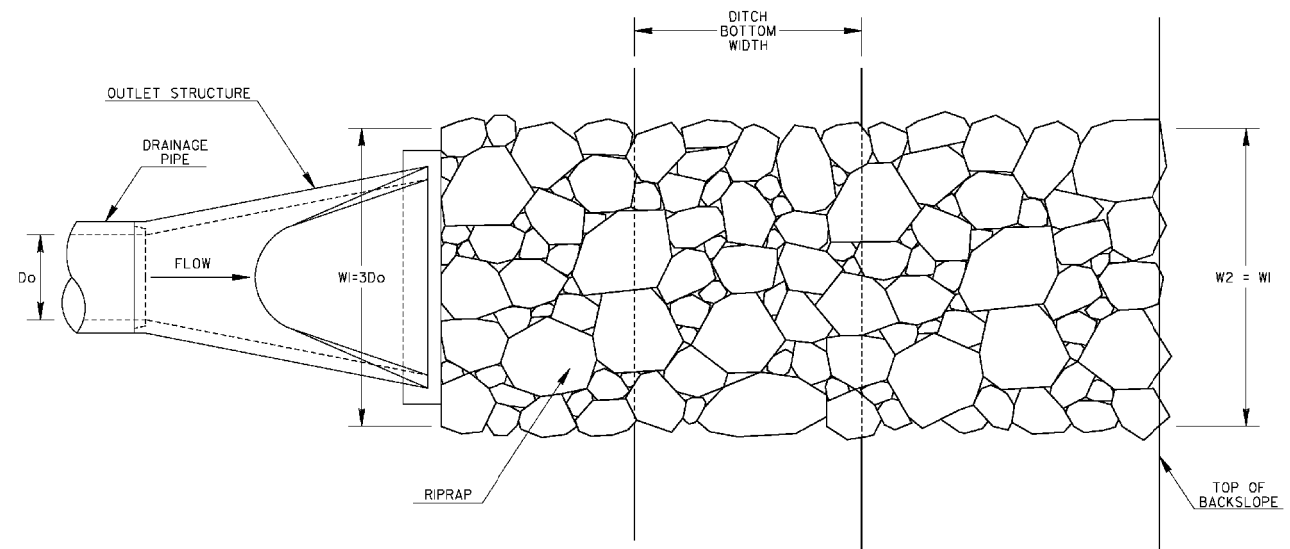


PLAN VIEW

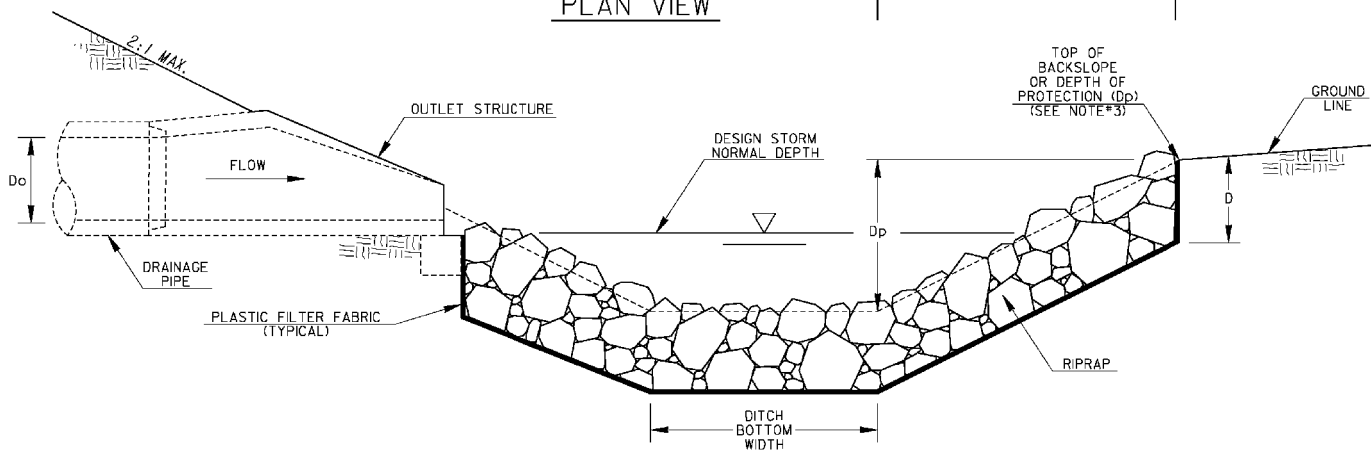


PROFILE VIEW

OUTLET PERPENDICULAR TO WELL-DEFINED CHANNEL



PLAN VIEW



PROFILE VIEW

GENERAL NOTES:

- RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD #20, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES.
- RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA". THE DESIGNER SHALL PROVIDE THE FOLLOWING IN THE PLANS: PIPE DIAMETER (Do), FLOW RATE OF DESIGN STORM (Q), VELOCITY (V), TAILWATER CONDITION (Tw), APRON LENGTH (La), APRON WIDTH AT DRAINAGE STRUCTURE (W1), APRON WIDTH DOWNSTREAM (W2), AVERAGE STONE DIAMETER (d50), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.

THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.
- THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PERPENDICULAR INTO A WELL-DEFINED CHANNEL. THE LENGTH SHALL EXTEND ACROSS THE CHANNEL AND UP TO THE TOP OF THE CHANNEL BACKSLOPE OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Dp) IF THE APRON DOES NOT EXTEND TO THE TOP OF THE BACKSLOPE.
- IF THE OUTLET HYDRAULICS REQUIRE A d50<0.70 FEET, TYPE-3 RIPRAP MAY BE USED.
IF THE OUTLET HYDRAULICS REQUIRE A d50<1.20 FEET, TYPE-1 RIPRAP SHOULD BE USED.
IF THE OUTLET HYDRAULICS REQUIRE A d50>1.20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.
- PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.
- PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

- Do = PIPE DIAMETER
- Q = DESIGN STORM FLOW RATE
- V = DESIGN STORM VELOCITY
- Tw = TAILWATER CONDITION/DESIGN STORM NORMAL DEPTH
- La = APRON LENGTH
- W1 = APRON WIDTH UPSTREAM
- W2 = APRON WIDTH DOWNSTREAM
- d50 = AVERAGE STONE DIAMETER
- D = INSTALLATION DEPTH
- Dp = DEPTH OF PROTECTION

RIPRAP TYPE	REQUIRED d50 (FT)	MIN. DEPTH "D" (IN)
1	≤1.20	36
3	≤0.67	18

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS	
		RIPRAP OUTLET PROTECTION (SHEET 1 OF 2)	
NO SCALE		4-22-2016	
BY	DESIGNED <u>DLE</u>	NUMBER	
	DRAWN <u>DLE</u>	D-55A	
	TRACED		
	CHECKED		

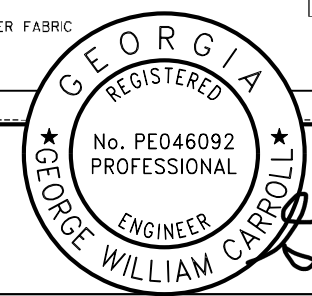
PLANS PREPARED AND SUBMITTED BY:

AEI
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DESIGN CONSULTANT

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Louisville, KY 40223
(502) 245-3815

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(770) 421-8422

PROFESSIONAL ENGINEERING



SUBMITTED BY: *George Carroll*
George W. Carroll, P.E. GSWCC LEVEL II Certification Number 0000093599

REVISION DATES	

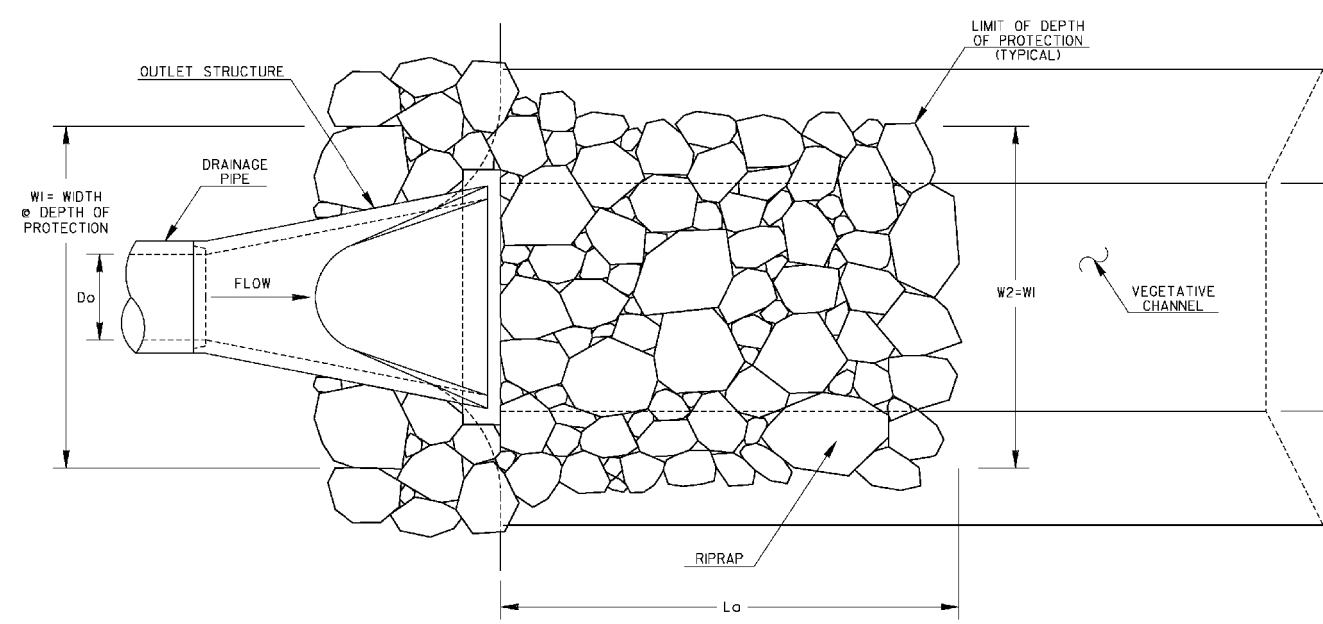
ESPCP DETAILS

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	56-0009

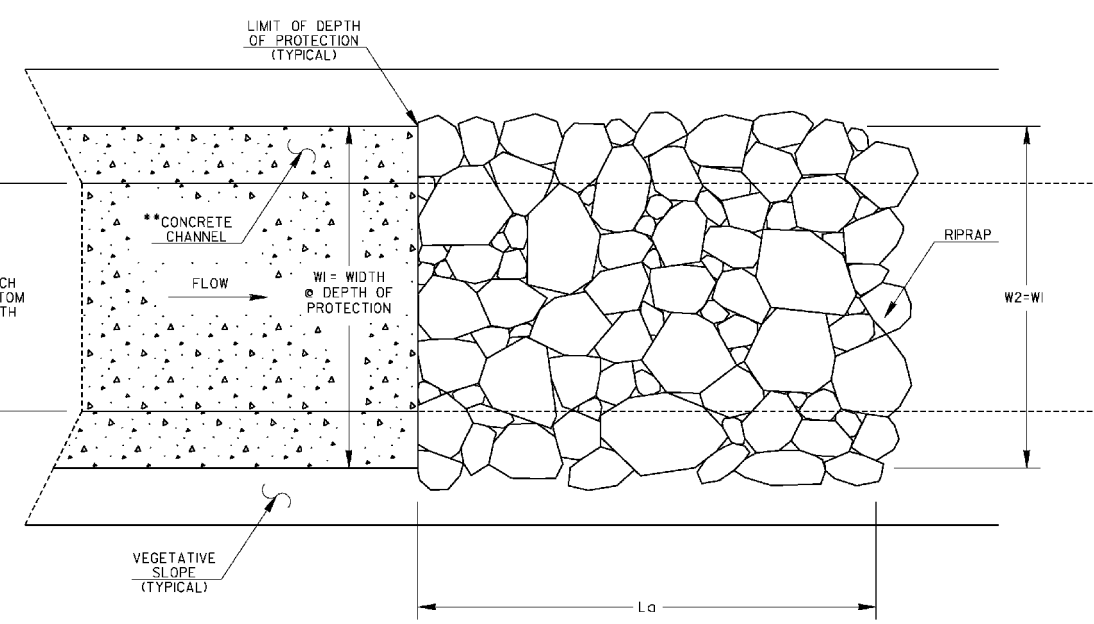
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

OUTLET PARALLEL TO WELL-DEFINED CHANNEL



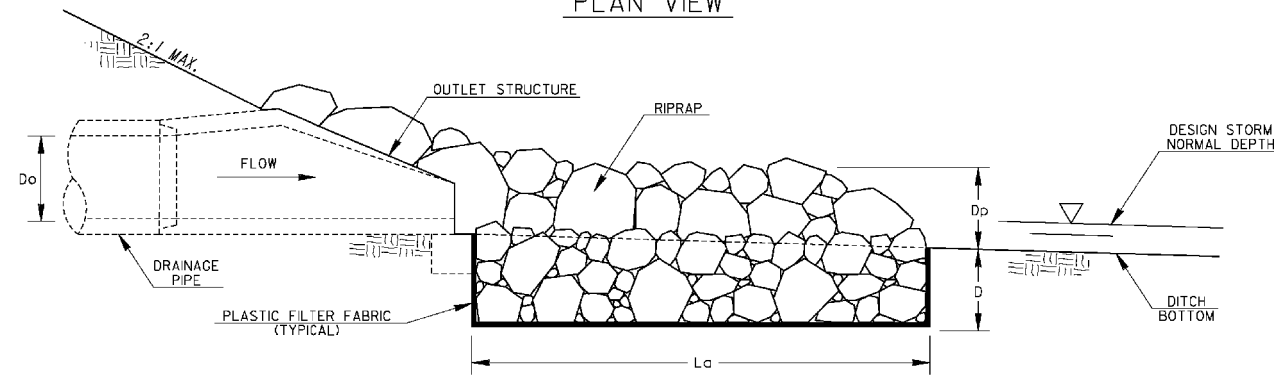
PLAN VIEW

CONCRETE CHANNEL TO RIPRAP TRANSITION

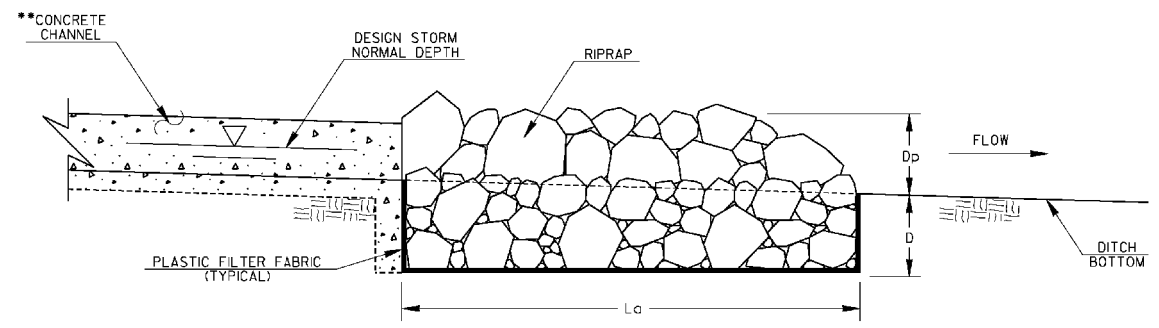


PLAN VIEW

**REFER TO CONSTRUCTION DETAIL D-10 FOR CONCRETE DITCH PAVING INFORMATION



PROFILE VIEW



PROFILE VIEW

GENERAL NOTES:

- RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD #120, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES. RIPRAP OUTLET PROTECTION IS SHOWN FOR A CONCRETE DITCH, BUT IS INSTALLED SIMILARLY TO TRANSITION FROM OTHER CHANNEL LININGS.
- RIPRAP OUTLET PROTECTION SHALL BE DESIGNED IN ACCORDANCE WITH THE 'MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA'. THE DESIGNER SHALL PROVIDE THE FOLLOWING IN THE PLANS: PIPE DIAMETER (Do), FLOW RATE OF DESIGN STORM (Q), VELOCITY (V), TAILWATER CONDITION (Tw), APRON LENGTH (La), APRON WIDTH AT DRAINAGE STRUCTURE (W1), APRON WIDTH DOWNSTREAM (W2), AVERAGE STONE DIAMETER (d50), INSTALLATION DEPTH (D), AND TYPE OF RIPRAP WITH QUANTITY.

THE MINIMUM DESIGN FOR RIPRAP OUTLET PROTECTION SHALL BE THE 25-YEAR STORM EVENT, BUT LARGER STORMS ARE RECOMMENDED.
- THE APRON WIDTHS SHALL BE THE SAME WHEN THE DRAINAGE STRUCTURE DISCHARGES PARALLEL INTO A WELL-DEFINED CHANNEL. THE APRON WIDTHS IN THIS CASE SHALL REPRESENT THE WIDTH AT THE DEPTH OF PROTECTION. THE RIPRAP SHALL BE INSTALLED TO THE TOP OF CHANNEL OR 1-FOOT ABOVE THE NORMAL DEPTH OF THE CHANNEL'S DESIGN STORM (WHICHEVER IS LESS). THE DESIGNER SHALL PROVIDE THE DEPTH OF PROTECTION (Dp) IF THE RIPRAP SHOULD NOT BE INSTALLED TO THE TOP OF THE CHANNEL. RIPRAP SHOULD ALSO BE INSTALLED TO ARMOR CHANNEL CORNER AT THE OUTLET STRUCTURE.
- IF THE OUTLET HYDRAULICS REQUIRE A d50<=0.70 FEET, TYPE-3 RIPRAP MAY BE USED. IF THE OUTLET HYDRAULICS REQUIRE A d50<=1.20 FEET, TYPE-1 RIPRAP SHOULD BE USED. IF THE OUTLET HYDRAULICS REQUIRE A d50>1.20 FEET, THE DESIGNER SHALL DESIGN AND PROVIDE A SPECIAL DETAIL FOR APPROPRIATE OUTLET PROTECTION.
- PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.
- PAYMENT FOR RIPRAP SHALL BE MEASURED IN SQUARE YARDS FOR SPECIFIED INSTALLATION DEPTH. PAYMENT FOR PLASTIC FILTER FABRIC SHALL BE MEASURED IN SQUARE YARDS CONSISTENT WITH RIPRAP QUANTITY AND PAID FOR SEPARATELY.

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- D = INSTALLATION DEPTH
- Dp = DEPTH OF PROTECTION

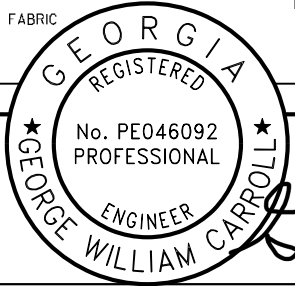
RIPRAP TYPE	REQUIRED d50 (FT)	MIN. DEPTH "D" (IN)
1	≤1.20	36
3	≤0.67	18

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS	
		RIPRAP OUTLET PROTECTION (SHEET 2 OF 2)	
		NO SCALE	4-22-2016
BY		DESIGNED DLE	NUMBER
		DRAWN DLE	D-55B
		TRACED	
		CHECKED	

PLANS PREPARED AND SUBMITTED BY:

AEI
AMERICAN ENGINEERS, INC.
DESIGN CONSULTANT

PROFESSIONAL ENGINEERING



SUBMITTED BY: *George W. Carroll*
George W. Carroll, P.E. 0000093599
GSWCC LEVEL II Certification Number

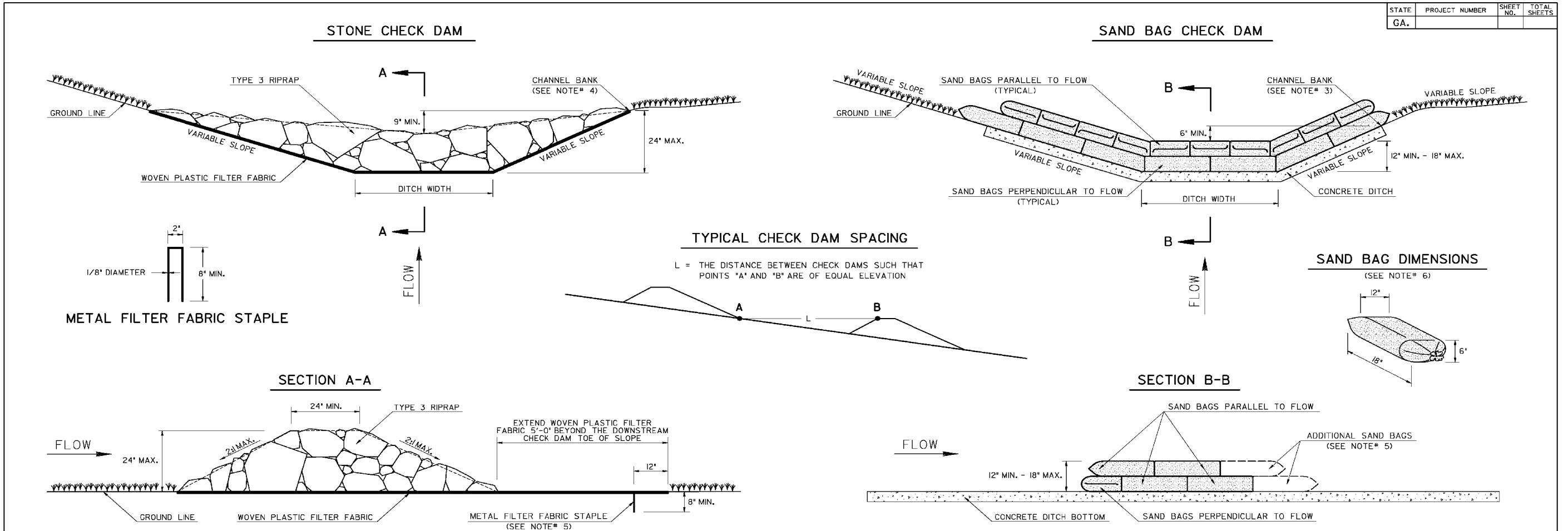
REVISION	DATE

ESPCP DETAILS

BRANNON ROAD

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	56-0010
CORRECTED:	DATE:	
VERIFIED:	DATE:	

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



STONE CHECK DAM GENERAL NOTES:

1. STONE CHECK DAMS SHALL NOT BE INSTALLED IN THE CLEAR ZONE OF UNPROTECTED ACTIVE TRAFFIC.
2. APPROPRIATE CONVENTIONAL OR APPROVED ALTERNATIVE BMPs SHALL BE PROVIDED DOWNSTREAM OF STONE CHECK DAMS AT THE DISCHARGE POINT FOR FLOWS GREATER THAN 2.0-CUBIC FEET PER SECOND.
3. STONE CHECK DAMS SHALL NOT BE PLACED WITHIN FLOWING STATE WATERS.
4. THE CENTER OF THE STONE CHECK DAM SHALL BE AT LEAST 9-INCHES LOWER THAN THE OUTER EDGES OF THE STONE CHECK DAM. THE HEIGHT AT THE CENTER OF THE STONE CHECK DAM MAY BE INCREASED TO A MAXIMUM OF 24-INCHES IF A MINIMUM OF 9-INCHES OF FREEBOARD IS STILL PROVIDED AT THE CHANNEL BANK.
5. ANCHOR THE WOVEN PLASTIC FILTER FABRIC TO THE GROUND SURFACE WITH METAL FILTER FABRIC STAPLES 12-INCHES FROM THE EDGE AND NO GREATER THAN 12-INCHES APART.
6. REMOVE SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE STONE CHECK DAM. WOVEN PLASTIC FILTER FABRIC SHALL BE REPLACED WHEN DAMAGED OR DETERIORATED.
7. PROVIDE PERMANENT CHANNEL PROTECTION AS SHOWN AND/OR NOTED IN THE PLANS AFTER STONE CHECK DAM IS REMOVED.

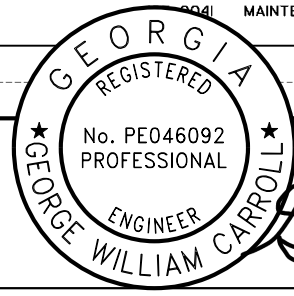
SAND BAG CHECK DAM GENERAL NOTES:

1. SAND BAG CHECK DAMS ARE ONLY USED FOR TEMPORARY VELOCITY CONTROL IN CONCRETE LINED DITCHES AND SHALL NOT BE INSTALLED IN THE CLEAR ZONE OF UNPROTECTED ACTIVE TRAFFIC.
2. APPROPRIATE CONVENTIONAL OR APPROVED ALTERNATIVE BMPs SHALL BE PROVIDED UPSTREAM AND/OR DOWNSTREAM OF CONCRETE DITCHES.
3. THE CENTER OF THE SAND BAG CHECK DAM SHALL BE AT LEAST 6-INCHES LOWER THAN THE OUTER EDGES OF THE SAND BAG CHECK DAM AT THE GROUND LINE. THE HEIGHT AT THE CENTER OF THE SAND BAG CHECK DAM SHALL BE A MINIMUM OF 12-INCHES AND A MAXIMUM OF 18-INCHES.
4. INSTALL SAND BAGS TIGHTLY ABUTTING EACH OTHER AND STACK IN A RUNNING BOND PATTERN. FOLD ANY FLAPS AWAY FROM WATER FLOW.
5. IF ADDITIONAL SAND BAGS ARE WARRANTED FOR STABILITY, INSTALL AS SHOWN AND DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.
6. SAND BAG SIZES MAY VARY. ASSUME A FILLED SAND BAG HAS APPROXIMATE DIMENSIONS OF 12"Wx6"Hx18"L.
7. REMOVE SEDIMENT WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SAND BAG CHECK DAM. SAND BAGS SHALL BE REPLACED WHEN DAMAGED OR DETERIORATED AT NO ADDITIONAL COST TO THE DEPARTMENT.

NOTE:
SEE STANDARD SPECIFICATION 163, AND SUPPLEMENTS THERETO FOR THE CONSTRUCTION AND REMOVAL OF STONE CHECK DAMS AND SAND BAG CHECK DAMS. SEE STANDARD SPECIFICATION 165, AND SUPPLEMENTS THERETO FOR THE MAINTENANCE OF STONE CHECK DAMS AND SAND BAG CHECK DAMS.

PAY ITEMS:
163-0527 CONSTRUCT AND REMOVE RIPRAP CHECK DAMS, STONE PLAIN RIPRAP/SAND BAGS (EA)
165-0001 MAINTENANCE OF CHECK DAMS - ALL TYPES (LF)

DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISION		CONSTRUCTION DETAILS STONE RIPRAP & SAND BAG TEMPORARY CHECK DAMS	
NO SCALE		11-28-2018	
BY	DESIGNED DLE DRAWN DLE TRACED CHECKED	NUMBER D-56	



7/27/21
George Carroll
0000093599
SUBMITTED BY: George W. Carroll, P.E. GSWCC LEVEL II Certification Number

REVISION DATES		ESPCP DETAILS	
		BRANNON ROAD	
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PLANS PREPARED AND SUBMITTED BY:

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