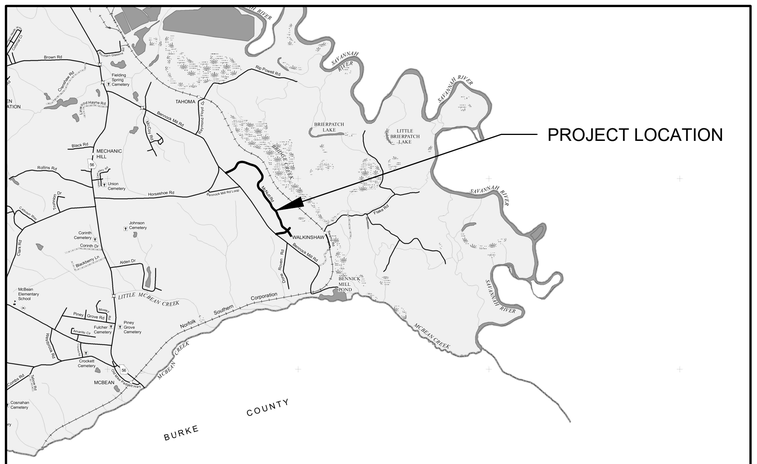
Augusta | PROJECT

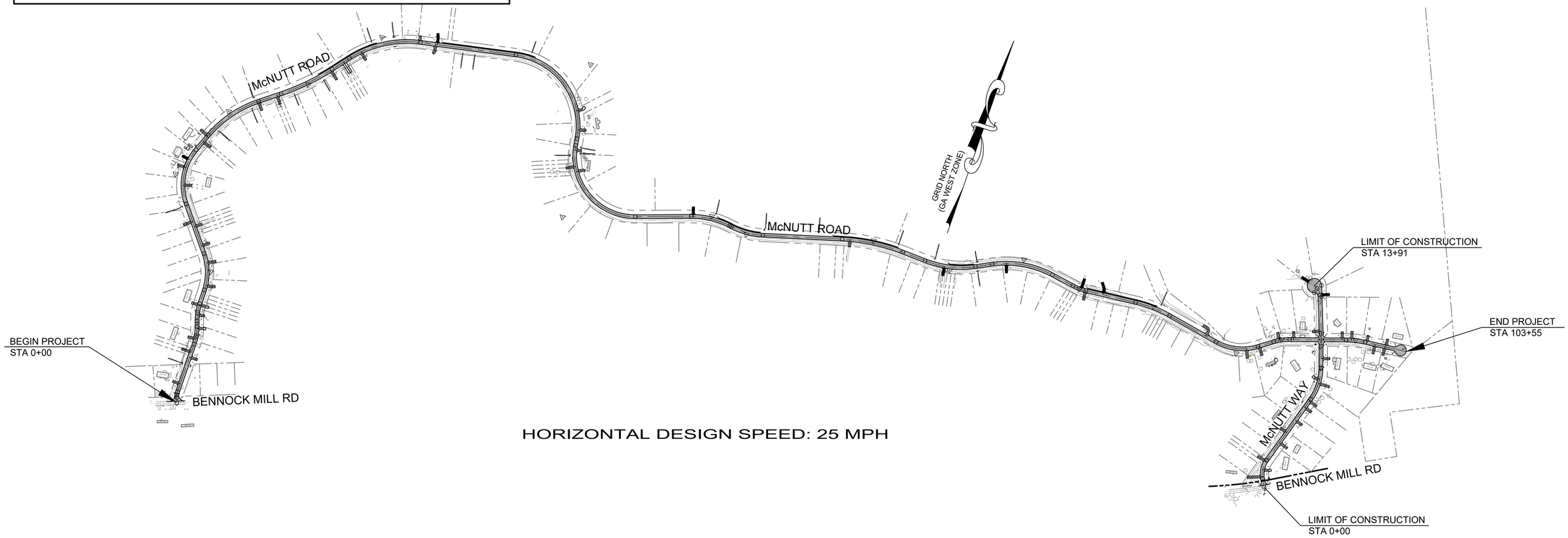
PLAN AND PROFILE OF PROPOSED

GRADING, DRAINAGE AND PAVING OF McNUTT ROAD AND McNUTT WAY

CITY OF AUGUSTA
RICHMOND COUNTY, GEORGIA



LOCATION SKETCH



HORIZONTAL DESIGN SPEED: 25 MPH

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.

GEORGIA 811
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Augusta GEORGIA

LENGTH OF ROAD	1.96
	MILES

MORELAND ALTOBELLI
— AN ATLAS COMPANY —
2450 Commerce Avenue
Suite 100
Duluth, Georgia 30096
Telephone (770) 263-5945

PLANS COMPLETED	- -
REVISIONS	

THIS PROJECT IS 100% WITHIN RICHMOND COUNTY AND IS 100% IN CONG. DIST. 12.

DRAWING NO. 01-0001

PROJECT: ___

DRAWING NO.	DESCRIPTION	LATEST REVISION
01-0001	COVER SHEET	
02-0001	INDEX TO DRAWINGS	
03-0001	REVISION SUMMARY	
04-0001	GENERAL NOTES	
05-0001 TO 05-0002	TYPICAL SECTIONS	
06-0001	SUMMARY OF QUANTITIES	
11-0001	CONSTRUCTION LAYOUT	
13-0001 TO 13-0013	MAINLINE PLAN & PROFILE SHEETS	
17-0001 TO 17-0011	DRIVEWAY PROFILES	
21-0001	DRAINAGE AREA MAP	
22-0001 TO 22-0003	DRAINAGE PROFILES	
23-0001 TO 23-0040	CROSS SECTIONS	
26-0001 TO 26-0007	SIGNING AND MARKING PLANS AND DETAILS	
	CONSTRUCTION DETAILS	
40-0001	A1 DRIVEWAYS WITH TAPERED ENTRANCES CONCRETE VALLEY GUTTERS	
40-0002	F1 WOVEN WIRE FENCE	
40-0003	F2 GATE DETAILS FOR CHAIN LINK & WOVEN WIRE FENCE	
40-0004	G11 GUARDRAIL IMPACT ATTENUATOR UNITS	
40-0005	P-7 PAVEMENT EDGE TREATMENT ASPHALT AND CONCRETE PAVEMENT	
40-0006	S-7 SERRATED SLOPE DETAIL / BENCHING DETAIL	
40-0007	T-1 SIGN PLATES	
40-0008	T-2 DETAILS FOR TYPICAL FRAMING	
	GEORGIA STANDARDS	
41-0001 TO 41-0003	1030 D CONCRETE AND METAL PIPE CULVERTS (3 SHEETS)	
41-0004	1120 FLARED END SECTIONS FOR PIPES	
41-0005 TO 41-0007	1122 SAFETY END SECTIONS (3 SHEETS)	
41-0008	4360 REFLECTORIZED GUARDRAIL WASHERS AND ANCHORAGE NOSE STRIPING	
41-0009	4380 "W" BEAM GUARDRAIL 31 INCH GUARDRAIL HEIGHT	
41-0010	4381 POST AND OFFSET BLOCKS FOR "W"	
41-0011	4383 GUARDRAIL ANCHORAGE TYPE 1 31 INCH GUARDRAIL HEIGHT	
41-0012	4384 TYPE 12 31 INCH GUARDRAIL HEIGHT	
41-0013	4388 GUARDRAIL LOCATION DETAILS FOR UNDIVIDED HIGHWAYS AND ROADS	

DRAWING NO.	DESCRIPTION	LATEST REVISION
	EROSION CONTROL	
50-0001	EROSION CONTROL COVER SHEET	
51-0001	ES&PC GENERAL NOTES	
52-0001	EC-L1 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 1 OF 7)	
52-0002	EC-L2 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 2 OF 7)	
52-0003	EC-L3 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 3 OF 7)	
52-0004	EC-L4 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 4 OF 7)	
52-0005	EC-L5 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 5 OF 7)	
52-0006	EC-L6 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 6 OF 7)	
52-0007	EC-L7 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 7 OF 7)	
53-0001	EROSION CONTROL DRAINAGE AREA MAP	
54-0001 TO 54-0039	BMP LOCATION DETAILS	
55-0001	EROSION CONTROL WATERSHED MAP AND SITE MONITORING LOCATION	
	EROSION CONTROL CONSTRUCTION DETAILS	
56-0002	D-20 SILT CONTROL GATES FOR STRUCTURES TYPE - 1,2, AND 3	
56-0003	D-24A TEMPORARY SILT FENCE (SHEET 1 OF 4)	
56-0004	D-24B TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH BARRIER (SHEET 2 OF 4)	
56-0005	D-24C TEMPORARY SILT FENCE J HOOKS, INLET SEDIMENT TRAPS (SHEET 3 OF 4)	
56-0006	D-24D TEMPORARY SILT FENCE FABRIC CHECK DAM (4 OF 4)	
56-0007	D-41 CONSTRUCTION EXIT	
56-0008	D-55A RIP RAP OUTLET PROTECTION (SHEET 1 OF 2)	
56-0009	D-55B RIP RAP OUTLET PROTECTION (SHEET 2 OF 2)	
56-0010	D-56 STONE RIP RAP AND SAND BAG TEMPORARY CHECK DAMS	
60-0001 TO 60-0013	RIGHT-OF-WAY PLANS	

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MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

INDEX TO DRAWINGS

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER
02-0001

PROJECT:

DATE	SHEET NO.	REVISION

DATE	SHEET NO.	REVISION

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES		

REVISION SUMMARY

McNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER
03-0001

D:\Data\Projects\McNutt Road\Design\McNutt Road Master 8 (10-2-19).dwg, 5/27/2021 10:37:38 AM

PROJECT: —

GENERAL NOTES - STANDARD SIGNS

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

2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE OFFICE OF TRAFFIC OPERATIONS.

3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY,

4a. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON INTERSTATE HIGHWAYS SHALL BE 32 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), UNLESS SPECIFIED OTHERWISE IN THE PLANS. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON RAMPS SHALL BE 2 FEET FROM THE NORMAL EDGE OF PAVED SHOULDER, OR EDGE OF GRADED SHOULDER WHEN PRESENT.

4b. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).

4c. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS MOUNTED BEHIND GUARD RAIL SHALL BE 6 FEET FROM THE FACE OF THE GUARD RAIL TO THE NEARER EDGE OF THE SIGN(S).

5. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH x INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE… INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.

6. EACH 42 OR 48 INCH WIDE x 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH x INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.

7. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS.

8. TYPE 9 (HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.

9. TYPE 11 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3P, R5-1, R5-1A, R5-1B).

10. TYPE 9 (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS, BICYCLE CROSSING (W11-1) SIGNS, AND PEDESTRIAN CROSSING (W11-2 AND W11A-2) SIGNS. SIGNS WITHIN THE SAME ASSEMBLY AS THE SCHOOL ZONE SIGNS SPECIFICALLY LISTED ABOVE AND ALL REGULATORY SIGNS PLACED AS PART OF THE SCHOOL ZONE SIGNING SHALL HAVE TYPE IX (VERY HIGH INTENSITY) REFLECTIVE SHEETING BACKGROUNDS OF THE APPROPRIATE COLOR.

11. TYPE 9 (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.

12. A INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.

13. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL…INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.

14. INTERSTATE SHIELDS SHALL CONTAIN THE WORD GEORGIA. ALL INTERSTATE, U.S., AND GEORGIA SHIELDS REQUIRING ALT, BUS, CONN, LOOP, OR SPUR SHALL USE 4 INCH SERIES "D" LETTERS. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, FOR DETAILS.

15. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.

16. REFER TO PLAN SHEETS FOR LOCATION OF THE DISTRICT ENGINEERS OFFICE TO BE SHOWN ON ALL R552-1 (LIMITED ACCESS) SIGNS IN THIS PROJECT, IF ANY.

17. THE CONTRACTOR WILL, AS REQUESTED BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

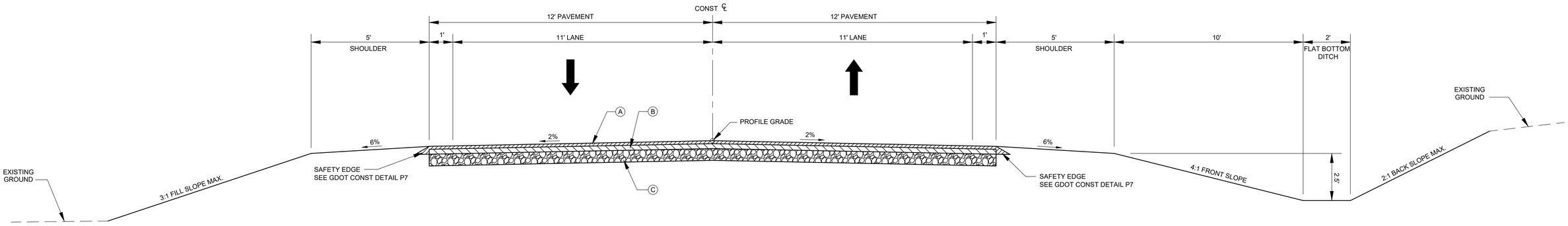
REVISION DATES

GENERAL NOTES

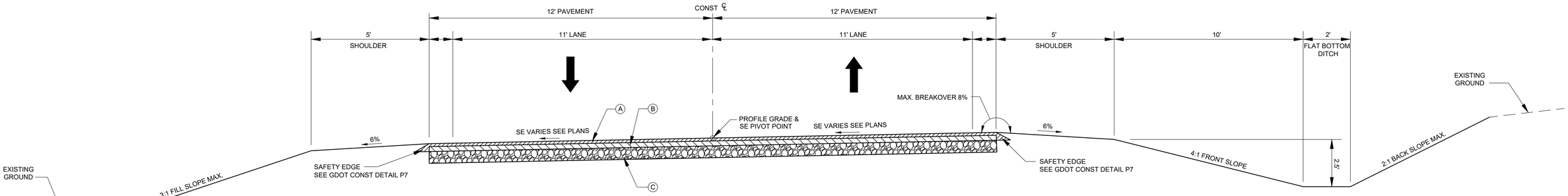
McNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER
04-0001

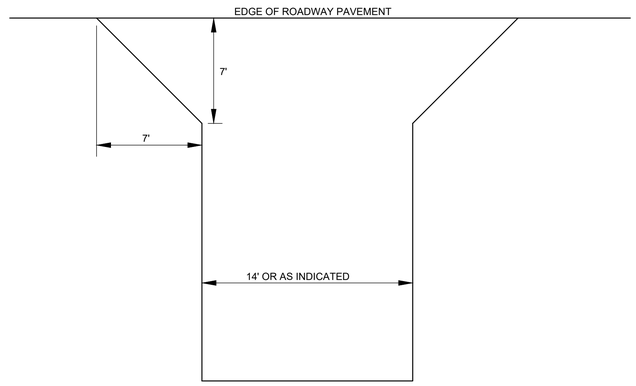
PROJECT: —



TYPICAL SECTION NO. 1
TANGENT SECTION
McNUTT ROAD & McNUTT WAY



TYPICAL SECTION NO. 2
SUPERELEVATED SECTION
McNUTT ROAD & McNUTT WAY
(SEE CONSTRUCTION PLANS FOR S.E.)



TYPICAL DRIVEWAY PLAN

Ⓐ RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2, INCL MITUM MATL & H LIME, 165 lbs / sy

Ⓑ RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR GP 2, INCL MITUM MATL & H LIME, 220 lbs / sy

Ⓒ GRADED AGGREGATE BASE COURSE 6", INCL MATL

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

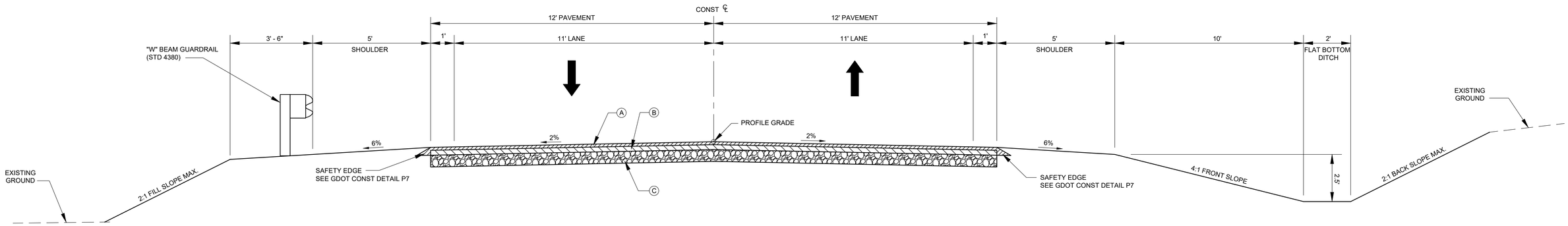
REVISION DATES

TYPICAL SECTIONS

McNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER
05-0001

PROJECT: —



TYPICAL SECTION NO. 3
GUARDRAIL SECTION
McNUTT ROAD
(STA 26+00 TO 29+50)
(STA 34+25 TO 39+50)
(STA 58+50 TO 60+75)
(STA 66+00 TO 69+50)
(STA 73+50 TO 74+50)
(STA 82+60 TO 86+50)

(A) RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2, INCL MITUM MATL & H LIME, 165 lbs / sy

(B) RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 2, INCL MITUM MATL & H LIME, 220 lbs / sy

(C) GRADED AGGREGATE BASE COURSE 6", INCL MATL

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

TYPICAL SECTIONS

McNUTT ROAD

DRAWING NUMBER
05-0002

PROJECT: —

PAVEMENT QUANTITIES

LOCATION	SIDE	310-1101 GRADED AGGR BASE CRS, INCL MATL	402-3129 RECYC ASPH CONC 9.5mm, GP 2 ONLY INCL BM & HL	402-3190 RECYC ASPH CONC 19mm GP 1 OR 2 INCL BM & HL	413-0750 TACK COAT	CONCRETE DRIVEWAY 6" THICK
		TN	TN	TN	GL	SY
McNutt Road						
Paving Items						
Roadway						
0+00 to 103+60		9630	2280	3040	1122	
Driveways						
1+23	LT	16	4		2	
3+02	RT	22	5		3	
3+35	LT	28	7		3	
4+23	LT	21	5		3	
4+90	RT	24	6		3	
5+74	RT	18	5		2	
6+38	LT	21	5		3	
6+41	RT	26	6		3	
7+69	RT	27	6		3	
9+11	RT	26	6		3	
10+23	RT	24	6		3	
11+51	RT	21	5		3	
11+87	LT	21	5		3	
14+24	RT	24	6		3	
15+38	LT	24	6		3	
15+92	LT					65
17+36	RT	26	6		3	
17+82	LT	27	6		3	
21+73	RT	26	6		3	
22+96	RT	26	6		3	
26+70	RT	32	8		4	
27+66	RT	62	15		7	
28+95	RT	26	6		3	
32+72	LT	16	4		2	
33+73	RT	27	7		3	
33+85	LT					96
44+38	LT	26	6		3	
45+58	LT	19	5		2	
46+88	LT	16	4		2	
47+91	RT	26	6		3	
48+25	LT	23	6		3	
56+90	LT					81
66+98	RT	19	5		2	
73+18	RT					80
77+11	RT					80
82+15	LT					94
82+45	RT	26	6		3	
83+56	LT					111
90+60	LT	42	10		5	
93+35	RT	26	6		3	
94+16	RT	26	6		3	
95+47	LT	22	5		3	
96+39	LT	21	5		3	
99+44	LT	21	5		3	
100+03	LT	24	6		3	
101+00	LT	19	5		2	
101+55	RT	26	6		3	
102+18	RT	24	6		3	
102+24	LT	21	5			
SUBTOTALS		10668	2530	3040	1245	607
McNutt Way						
Paving Items						
Roadway						
0+00 to 14+31		1369	332	456	332	
Driveways						
0+67	LT	44	11		5	
1+13	RT	23	6		3	
1+68	LT	26	6		3	
3+13		27	6		3	
3+92	LT	26	6		3	
4+86	RT	21	5		3	
5+86	RT	21	5		3	
7+61	RT	32	8		4	
7+90	LT	21	5		3	
9+20	RT	24	6		3	
10+91	LT	24	6		3	
13+21	RT					80
13+91	LT					88
SUBTOTALS		1658	402	456	368	168
TOTALS		12326	2932	3496	1613	775

DRAINAGE QUANTITIES

DRAINAGE STRUCTURE NUMBER OR STATION	SIDE	550-1180 STORM DRAIN PIPE, 18 IN	550-1240 STORM DRAIN PIPE, 24 IN	STORM DRAIN PIPE, 30 IN	STORM DRAIN PIPE, 36 IN	550-2180 SIDE DRAIN PIPE, 18 IN	550-2240 SIDE DRAIN PIPE, 24 IN	550-3618 SAFETY SLOPE END SECTION, 18 IN ST DR	SAFETY SLOPE END SECTION, 24 IN ST DR	550-4218 FLARED END SECTION, 18 IN STORM DRAIN	550-4224 FLARED END SECTION, 24 IN STORM DRAIN	FLARED END SECTION 30 IN, STORM DRAIN	FLARED END SECTION 36 IN, STORM DRAIN
		LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA
A1 - A2				48								2	
B1 - B2		52								2			
C1 - C2		56								2			
D1 - D2				56								2	
E1 - E2		44								2			
F1 - F2					70								2
G1 - G2		44								2			
McNutt Road													
1+23	LT					36		2					
3+02	RT					36		2					
3+35						36		2					
4+23	LT					36		2					
4+90	RT					36		2					
5+74	RT					36		2					
6+38	LT					36		2					
6+41	RT					36		2					
7+69	RT					36		2					
9+11	RT					36		2					
10+23	RT					36		2					
11+51	RT					36		2					
11+87	LT					36		2					
14+24	RT					36		2					
15+38	LT					36		2					
15+92	LT					36		2					
17+36	RT					36		2					
21+73	RT					36		2					
22+96	RT					36		2					
26+70	RT					36		2					
27+66	RT					44		2					
28+95	RT					36		2					
32+72	LT					36		2					
33+73	RT					36		2					
33+85	LT					36		2					
44+38	LT					36		2					
45+58	LT					36		2					
47+91	RT					36		2					
48+25	LT					36		2					
56+90	LT					36		2					
66+98	RT					36		2					
73+18	RT					36		2					
77+11	RT					36		2					
82+15	LT					36		2					
82+45	RT					36		2					
90+60	LT					36		2					
93+35	RT						36		2				
94+16	RT						36		2				
95+47	LT					36		2					
66+39	LT					36		2					
99+44	LT					36		2					
100+03	LT					36		2					
101+00	LT					36		2					
101+55	RT					36		2					
102+18	RT					36		2					
102+24	LT					36		2					
McNutt Way													
0+67	LT					36		2					
1+13	RT					36		2					
1+68	LT					36		2					
3+13	RT					36		2					
3+92	LT					36		2					
4+86	RT					36		2					
5+86	RT					36		2					
6+36	RT					36		2					
7+61	RT					36		2					
7+90	LT					36		2					
9+20	RT					36		2					
12+21	RT					36		2					
13+91	LT					36		2					
TOTALS		196	0	104	70	2060	72	114	4	8	0	4	2

GUARDRAIL QUANTITIES

LOCATION	SIDE	641-1200 GUARDRAIL TP W, 31 IN HEIGHT	641-5001 GUARDRAIL ANCHOR, TP 1, 31 IN HEIGHT	641-5015 GUARDRAIL ANCHOR, TP 12A, 31 IN HEIGHT	641-5016 GUARDRAIL AT TURNOUT
		LF	EA	EA	EA
STA 26+00 TO 29+50	LT	350	1	1	
STA 34+25 TO 39+50	LT	525	1	1	
STA 58+50 TO 60+75	LT	225	1	1	
STA 66+00 TO 69+50	LT	350	1	1	
STA 73+50 TO 74+50	LT	100	1	1	
STA 82+60 TO 86+50	LT	390	1	1	
STA 83+56	LT				1
TOTALS		1940	6	6	1

EROSION CONTROL QUANTITIES

LOCATION	150-1000 TRAFFIC CONTROL	163-0232 TEMPORARY GRASSING	163-0240 MULCH	163-0300 CONSTRUCTION EXIT	163-0501 SILT CONTROL GATE, TP 1	163-0527 RIP RAP CHECK DAMS	163-0528 FABRIC CHECK DAMS	165-0030 MAINT OF SILT FENCE, TP C	165-0041 MAINT OF CHECK DAMS - ALL TYPES	165-0085 MAINT OF SILT CONTROL GATE, TP 1	603-2181 STN DUMPED RIP RAP TP 3 18 IN	603-7000 PLASTIC FILTER FABRIC	167-1000 WATER QUALITY MONITORING SAMPLING	167-1500 WATER QUALITY INSPECTIONS	171-0030 TEMP SILT FENCE, TP C	700-6910 PERMANENT GRASSING	700-7000 AG LIME	700-8000 FERTILIZER MIXED GRADE	700-8100 FERTILIZER NITROGEN CONTENT	711-0100 TURF REINF MAT, TP 1
	LS	AC	TN	EA	EA	EA	LF	LF	LF	EA	SY	SY	EA	MO	LF	AC	TN	TN	LB	SY
McNutt Road and McNutt Way		23	138	2	5	235	107	26444	342	5	330	330	2	12	26444	23	23	14	0.6	
TOTALS	0	23	138	2	5	235	107	26444	342	5	330	330	2	12	26444	23	23	14	0.6	0

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MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

SUMMARY OF QUANTITIES

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER **06-0001**

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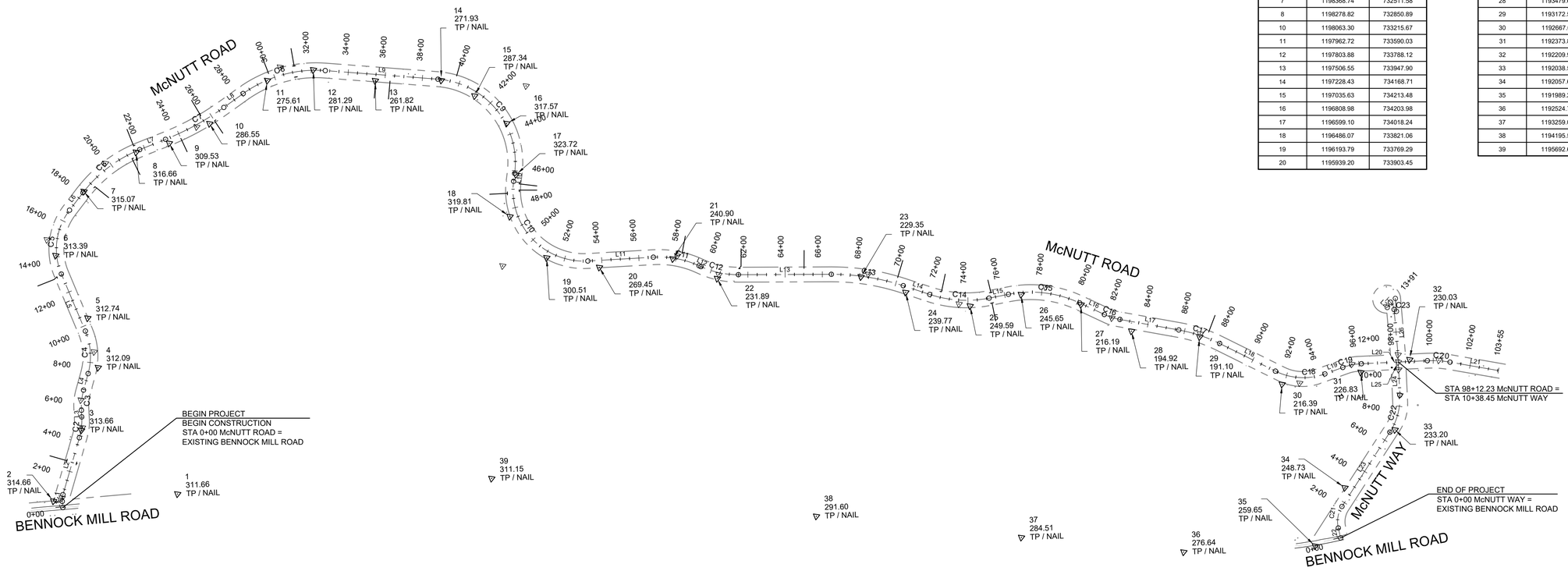
PROJECT: ___



TRAVERSE POINT TABLE

Point #	Northing	Easting
1	1196967.81	731544.59
9	1198168.81	732999.05
2	1197468.29	731102.23
3	1197585.19	731494.00
4	1197723.34	731814.87
5	1197932.08	731989.31
6	1198275.16	732147.02
7	1198368.74	732511.58
8	1198278.82	732850.89
10	1198063.30	733215.67
11	1197962.72	733590.03
12	1197803.88	733788.12
13	1197506.55	733947.90
14	1197228.43	734168.71
15	1197035.63	734213.48
16	1196808.98	734203.98
17	1196599.10	734018.24
18	1196486.07	733821.06
19	1196193.79	733769.29
20	1195939.20	733903.45

TRAVERSE POINT TABLE

Point #	Northing	Easting
21	1195656.96	734183.71
22	1195403.92	734247.92
23	1194802.64	734732.67
24	1194562.44	734815.73
25	1194244.90	734971.99
26	1194067.37	735190.00
27	1193781.05	735347.12
28	1193479.69	735402.08
29	1193172.53	735604.40
30	1192667.01	735678.30
31	1192373.85	735990.29
32	1192209.93	736205.91
33	1192038.53	735860.91
34	1192057.65	735449.53
35	1191989.28	735104.57
36	1192524.74	734642.15
37	1193259.00	734164.59
38	1194195.50	733572.98
39	1195692.64	732653.45

HORIZONTAL DESIGN SPEED: 25 MPH

LINE TABLE: McNUTT ROAD

LINE #	LENGTH	DIRECTION	BEGIN STA	END STA	BEGIN NORTH	BEGIN EAST	END NORTH	END EAST
L1	33.32	N46°45'54"E	0+00.00	0+33.32	1197407.00	731106.09	1197429.83	731130.37
L2	317.92	N67°55'22"E	0+70.25	3+88.17	1197449.64	731161.28	1197569.13	731455.90
L3	35.56	N48°42'18"E	5+01.88	5+37.44	1197628.58	731552.20	1197652.04	731578.92
L4	91.89	N67°12'02"E	6+46.87	7+38.76	1197709.86	731671.27	1197745.47	731755.98
L5	332.55	N29°01'04"E	9+72.37	13+04.92	1197898.58	731926.68	1198189.38	732088.00
L6	118.54	N89°12'54"E	16+67.39	17+85.93	1198367.00	732384.96	1198368.62	732503.49
L7	149.48	S59°57'13"E	21+73.37	23+22.85	1198271.94	732873.86	1198197.09	733003.25
L8	128.16	S73°48'51"E	26+80.87	28+09.04	1198056.88	733331.73	1198021.15	733454.82
L9	607.18	S33°49'35"E	32+76.64	38+83.83	1197750.68	733824.64	1197246.28	734162.64
L10	42.72	S59°13'11"W	46+14.61	46+57.33	1196609.16	734019.10	1196587.30	733982.40
L11	352.67	S41°30'22"E	53+25.37	56+78.04	1196009.00	733892.28	1195744.89	734126.00
L12	11.44	S13°40'12"E	59+30.67	59+42.11	1195523.18	734241.85	1195512.06	734244.55
L13	499.30	S38°24'50"E	61+49.41	66+48.70	1195327.26	734334.86	1194936.04	734645.09
L14	149.67	S19°57'02"E	70+41.85	71+91.52	1194594.28	734835.95	1194453.59	734887.02
L15	105.83	S49°21'49"E	75+14.93	76+20.76	1194190.47	735068.92	1194121.55	735149.24
L16	146.46	S13°08'17"E	80+12.76	81+59.23	1193791.98	735349.23	1193649.35	735382.52
L17	321.33	S28°00'51"E	82+47.24	85+68.58	1193567.18	735413.37	1193283.50	735564.29
L18	334.83	S11°48'58"E	88+00.40	91+35.23	1193066.26	735642.99	1192738.53	735711.56
L19	102.29	S58°06'02"E	94+09.08	95+11.37	1192520.14	735864.24	1192466.09	735951.08
L20	354.87	S40°48'51"E	96+13.65	99+68.52	1192399.86	736028.51	1192131.28	736260.46
L21	264.09	S28°17'32"E	100+90.91	103+55.00	1192030.68	736329.74	1191798.14	736454.91

LINE TABLE: McNUTT WAY

LINE #	LENGTH	DIRECTION	BEGIN STA	END STA	BEGIN NORTH	BEGIN EAST	END NORTH	END EAST
L22	55.17	N38°32'29"E	0+00.00	0+55.17	1191908.48	735223.30	1191951.63	735257.67
L23	475.02	N84°35'54"E	1+75.74	6+50.77	1192007.50	735360.87	1192052.21	735833.79
L27	24.21	N3°31'01"E	13+67.14	13+91.35	1192482.11	736385.03	1192506.28	736386.51

CURVE TABLE: McNUTT ROAD

CURVE #	RADIUS	LENGTH	PI STA	PI NORTH	PI EAST	DELTA	D (ARC)	T
C1	100.00	36.93	N57° 20' 38.36"E	1197442.62	731143.98	158°50'32"	57°17'45"	18.68
C2	339.00	113.71	N58° 18' 50.09"E	1197590.70	731509.08	160°46'56"	16°54'05"	57.39
C3	339.00	109.43	N57° 57' 09.89"E	1197688.47	731620.39	161°30'16"	16°54'05"	55.20
C4	350.54	233.60	N48° 06' 33.12"E	1197792.48	731867.83	141°49'03"	16°20'42"	121.33
C5	345.00	362.47	N59° 06' 59.13"E	1198364.26	732185.00	119°48'11"	16°36'27"	199.98
C6	720.00	387.44	S75° 22' 09.69"E	1198371.34	732702.01	149°10'07"	7°57'28"	198.53
C7	1480.00	358.03	S66° 53' 02.07"E	1198107.02	733158.97	166°08'23"	3°52'17"	179.89
C8	670.00	467.60	S53° 49' 12.88"E	1197953.19	733688.93	140°00'44"	8°33'06"	243.78
C9	450.00	730.78	S12° 41' 47.80"W	1196852.03	734426.83	86°57'14"	12°43'57"	474.58
C10	380.00	668.04	S8° 51' 24.39"W	1196352.54	733588.28	79°16'28"	15°04'40"	458.73
C11	520.00	252.63	S27° 35' 17.10"E	1195648.39	734211.40	152°09'51"	11°01'06"	128.86
C12	480.00	207.29	S26° 02' 31.50"E	1195409.76	734269.44	155°15'22"	11°56'12"	105.29
C13	1220.00	393.14	S29° 10' 56.16"E	1194780.67	734768.29	161°32'11"	4°41'47"	198.29
C14	630.00	323.41	S34° 39' 25.50"E	1194298.16	734943.44	150°35'13"	9°05'40"	165.35
C15	620.00	392.00	S31° 15' 02.84"E	1193989.47	735303.13	143°46'27"	9°14'29"	202.80
C16	339.00	88.02	S20° 34' 33.75"E	1193606.25	735392.58	165°07'26"	16°54'05"	44.26
C17	820.00	231.82	S19° 54' 54.67"E	1193180.48	735619.10	163°48'07"	6°59'14"	116.69
C18	339.00	273.85	S34° 57' 29.97"E	1192596.71	735741.23	133°42'57"	16°54'05"	144.89
C19	339.00	102.28	S49° 27' 26.20"E	1192438.86	735994.83	162°42'49"	16°54'05"	51.53
C20	560.00	122.39	S34° 33' 11.17"E	1192084.78	736300.62	167°28'41"	10°13'53"	61.44

CURVE TABLE: McNUTT WAY

CURVE #	RADIUS	LENGTH	PI STA	PI NORTH	PI EAST	DELTA	D (ARC)	T
C21	150.00	120.58	N61° 34' 11.57"E	1192001.50	735297.40	133°56'34"	38°11'50"	63.76
C22	339.00	209.52	N66° 53' 31.82"E	1192062.40	735941.54	144°35'15"	16°54'05"	108.23
C23	60.00	45.41	N25° 11' 52.76"E	1192458.30	736383.56	136°38'16"	95°29'35"	23.85

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GRAPHIC SCALE
300 0 150 300 600 1200
(IN FEET)
1 inch = 300 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CONSTRUCTION LAYOUT SHEET

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER
11-0001

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PROJECT: ___

McNUTT ROAD ALIGNEMENT

Superelevation Region	Station	Description	Smoothing Curve Length	Left Outside Shoulder	Left Outside Lane	Left Inside Lane	Left Inside Shoulder	Right Outside Shoulder	Right Outside Lane	Right Inside Lane	Right Inside Shoulder
	0+00.00'	Begin Alignment	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
1	-1+33.51'	End Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
1	-0+56.51'	End Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
1	-0+18.01'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
1	0+20.49'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
1	0+44.59'	End Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
1	0+58.99'	Begin Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
1	0+83.09'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
1	1+21.59'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
1	1+60.09'	Begin Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
1	2+37.09'	Begin Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
2	2+98.34'	End Normal Crown	0	-6.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
2	3+36.84'	Level Crown	0	-6.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2	4+13.84'	Begin Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
2	4+76.21'	End Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
3	5+63.10'	Begin Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
3	6+21.21'	End Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
4	7+64.43'	Begin Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
4	9+46.70'	End Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
4	9+85.20'	Reverse Crown	0	-6.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
4	10+23.70'	Level Crown	0	-6.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
4	10+62.20'	Begin Normal Crown	0	-6.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
5	12+15.08'	End Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
5	12+53.58'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
5	12+92.08'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
5	13+30.58'	Begin Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
5	16+41.72'	End Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
6	18+07.93'	Begin Full Super	0	3.40%	3.40%	0.00%	0.00%	-6.00%	-3.40%	0.00%	0.00%
6	21+51.37'	End Full Super	0	3.40%	3.40%	0.00%	0.00%	-6.00%	-3.40%	0.00%	0.00%
7	23+39.51'	Begin Full Super	0	-6.00%	-2.60%	0.00%	0.00%	2.60%	2.60%	0.00%	0.00%
7	26+64.21'	End Full Super	0	-6.00%	-2.60%	0.00%	0.00%	2.60%	2.60%	0.00%	0.00%
8	28+32.37'	Begin Full Super	0	3.60%	3.60%	0.00%	0.00%	-6.00%	-3.60%	0.00%	0.00%
8	32+53.31'	End Full Super	0	3.60%	3.60%	0.00%	0.00%	-6.00%	-3.60%	0.00%	0.00%
8	32+84.42'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
8	33+23.31'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
8	33+62.20'	Begin Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
8	34+39.98'	Begin Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
9	37+16.99'	End Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
9	37+93.99'	End Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
9	38+32.49'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
9	38+70.99'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
9	39+09.49'	Begin Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
9	45+88.94'	End Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
10	46+83.00'	Begin Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
10	52+99.71'	End Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
10	53+38.21'	Reverse Crown	0	-6.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
10	53+76.71'	Level Crown	0	-6.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
10	54+15.21'	Begin Normal Crown	0	-6.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
10	54+92.21'	Begin Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
11	55+11.87'	End Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
11	55+89.76'	End Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
11	56+28.71'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
11	56+67.65'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
11	57+02.71'	Begin Full Super	0	3.80%	3.80%	0.00%	0.00%	-6.00%	-3.80%	0.00%	0.00%
11	59+06.01'	End Full Super	0	3.80%	3.80%	0.00%	0.00%	-6.00%	-3.80%	0.00%	0.00%
12	59+67.78'	Begin Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
12	61+23.74'	End Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
12	61+62.24'	Reverse Crown	0	-6.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
12	62+00.74'	Level Crown	0	-6.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
12	62+39.24'	Begin Normal Crown	0	-6.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
12	63+16.24'	Begin Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
13	64+96.99'	End Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
13	65+74.13'	End Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
13	66+12.70'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
13	66+51.27'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
13	66+66.70'	Begin Full Super	0	2.80%	2.80%	0.00%	0.00%	-6.00%	-2.80%	0.00%	0.00%
13	70+23.85'	End Full Super	0	2.80%	2.80%	0.00%	0.00%	-6.00%	-2.80%	0.00%	0.00%
14	72+14.85'	Begin Full Super	0	-6.00%	-3.60%	0.00%	0.00%	3.60%	3.60%	0.00%	0.00%
14	74+91.60'	End Full Super	0	-6.00%	-3.60%	0.00%	0.00%	3.60%	3.60%	0.00%	0.00%
15	76+44.10'	Begin Full Super	0	3.60%	3.60%	0.00%	0.00%	-6.00%	-3.60%	0.00%	0.00%
15	79+89.43'	End Full Super	0	3.60%	3.60%	0.00%	0.00%	-6.00%	-3.60%	0.00%	0.00%
16	81+84.89'	Begin Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
16	82+21.58'	End Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
16	82+60.08'	Reverse Crown	0	-6.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
16	82+98.58'	Level Crown	0	-6.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
16	83+37.08'	Begin Normal Crown	0	-6.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
17	84+85.75'	End Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
17	85+24.57'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
17	85+63.40'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
17	85+90.57'	Begin Full Super	0	3.40%	3.40%	0.00%	0.00%	-6.00%	-3.40%	0.00%	0.00%
17	87+78.40'	End Full Super	0	3.40%	3.40%	0.00%	0.00%	-6.00%	-3.40%	0.00%	0.00%
17	88+05.57'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
17	88+44.40'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
17	88+83.22'	Begin Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
17	89+60.87'	Begin Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
18	89+68.39'	End Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
18	90+45.39'	End Normal Crown	0	-6.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
18	90+83.89'	Level Crown	0	-6.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
18	91+22.39'	Reverse Crown	0	-6.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
18	91+60.89'	Begin Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
18	93+83.41'	End Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
19	95+37.04'	Begin Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
19	95+87.99'	End Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
19	96+26.49'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
19	96+64.99'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
19	97+03.49'	Begin Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
19	97+80.49'	Begin Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
20	98+02.34'	End Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
20	98+80.24'	End Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
20	99+19.19'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
20	99+58.13'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
20	99+93.19'	Begin Full Super	0	3.80%	3.80%	0.00%	0.00%	-6.00%	-3.80%	0.00%	0.00%
20	100+66.25'	End Full Super	0	3.80%	3.80%	0.00%	0.00%	-6.00%	-3.80%	0.00%	0.00%
20	101+01.30'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
20	101+40.25'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
20	101+79.19'	Begin Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
20	102+57.09'	Begin Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
	103+20.00'	End Alignment	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%

McNUTT WAY ALIGNEMENT

Superelevation Region	Station	Description	Smoothing Curve Length	Left Outside Shoulder	Left Outside Lane	Left Inside Lane	Left Inside Shoulder	Right Outside Shoulder	Right Outside Lane	Right Inside Lane	Right Inside Shoulder
	0+00.00'	Begin Alignment	0	-5.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
1	-0+92.42'	End Normal Shoulder	0	-5.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
1	-0+34.67'	End Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
1	0+03.83'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
1	0+42.33'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
1	0+80.83'	Begin Full Super	0	4.00%	4.00%	0.00%	0.00%	-5.00%	-4.00%	0.00%	0.00%
1	1+50.08'	End Full Super	0	4.00%	4.00%	0.00%	0.00%	-5.00%	-4.00%	0.00%	0.00%
1	1+88.58'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
1	2+27.08'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
1	2+65.58'	Begin Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
1	3+23.33'	Begin Normal Shoulder	0	-5.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
2	5+03.18'	End Normal Shoulder	0	-5.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
2	5+60.93'	End Normal Crown	0	-5.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
2	5+99.43'	Level Crown	0	-5.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2	6+37.93'	Reverse Crown	0	-5.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
2	6+76.43'	Begin Full Super	0	-5.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
2	8+34.63'	End Full Super	0	-5.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
2	8+73.13'	Reverse Crown	0	-5.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
2	9+11.63'	Level Crown	0	-5.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2	9+50.13'	Begin Normal Crown	0	-5.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
2	10+07.88'	Begin Normal Shoulder	0	-5.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
3	11+74.15'	End Normal Shoulder	0	-5.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
3	12+31.90'	End Normal Crown	0	-5.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
3	12+70.40'	Level Crown	0	-5.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3	13+08.90'	Reverse Crown	0	-5.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
3	13+41.48'	End Full Super	0	-5.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
3	13+47.40'	Begin Full Super	0	-5.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
3	13+79.98'	Reverse Crown	0	-5.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
3	14+18.48'	Level Crown	0	-5.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3	14+56.98'	Begin Normal Crown	0	-5.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
3	15+14.73'	Begin Normal Shoulder	0	-5.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
	13+91.35'	End Alignment	0	-5.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%

MORELAND ALTOBELLI
— AN ATLAS COMPANY —
Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CONSTRUCTION LAYOUT SHEET

SUPERELEVATION REPORT
McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER
11-0002

EASEMENT FOR CONSTRUCTION OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE

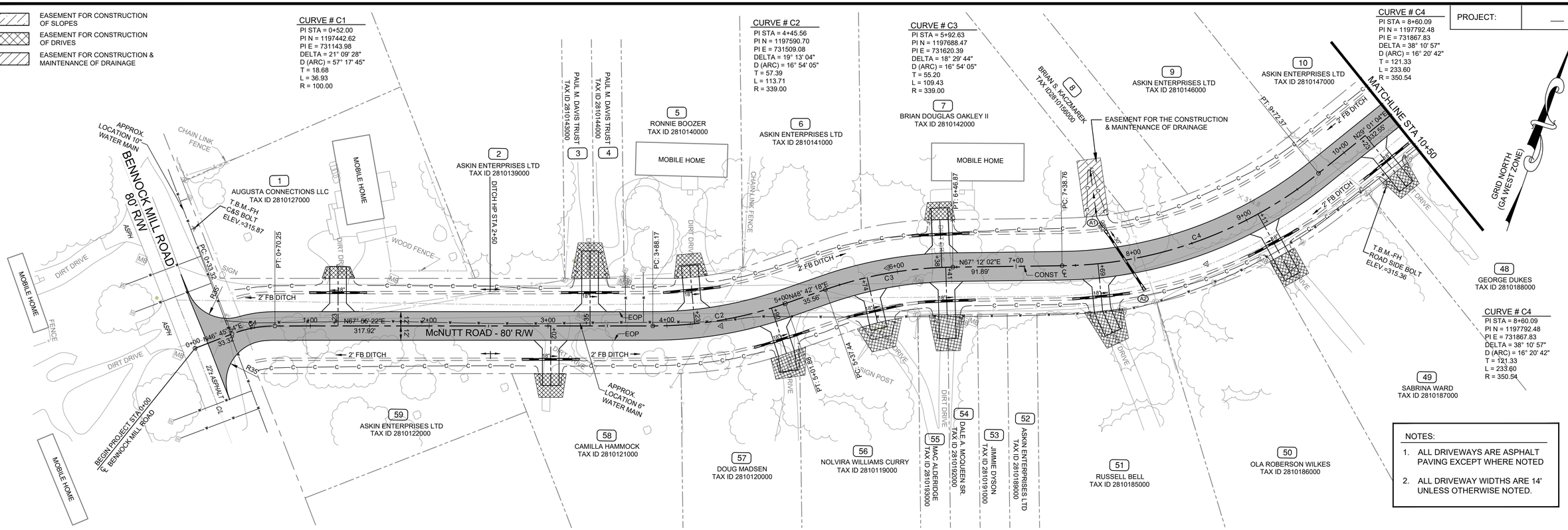
CURVE # C1
PI STA = 0+52.00
PI N = 1197442.62
PI E = 731143.98
DELTA = 21° 09' 28"
D (ARC) = 57° 17' 45"
T = 18.68
L = 36.93
R = 100.00

CURVE # C2
PI STA = 4+45.56
PI N = 1197590.70
PI E = 731509.08
DELTA = 19° 13' 04"
D (ARC) = 16° 54' 05"
T = 57.39
L = 113.71
R = 339.00

CURVE # C3
PI STA = 5+92.63
PI N = 1197688.47
PI E = 731620.39
DELTA = 18° 29' 44"
D (ARC) = 16° 54' 05"
T = 55.20
L = 109.43
R = 339.00

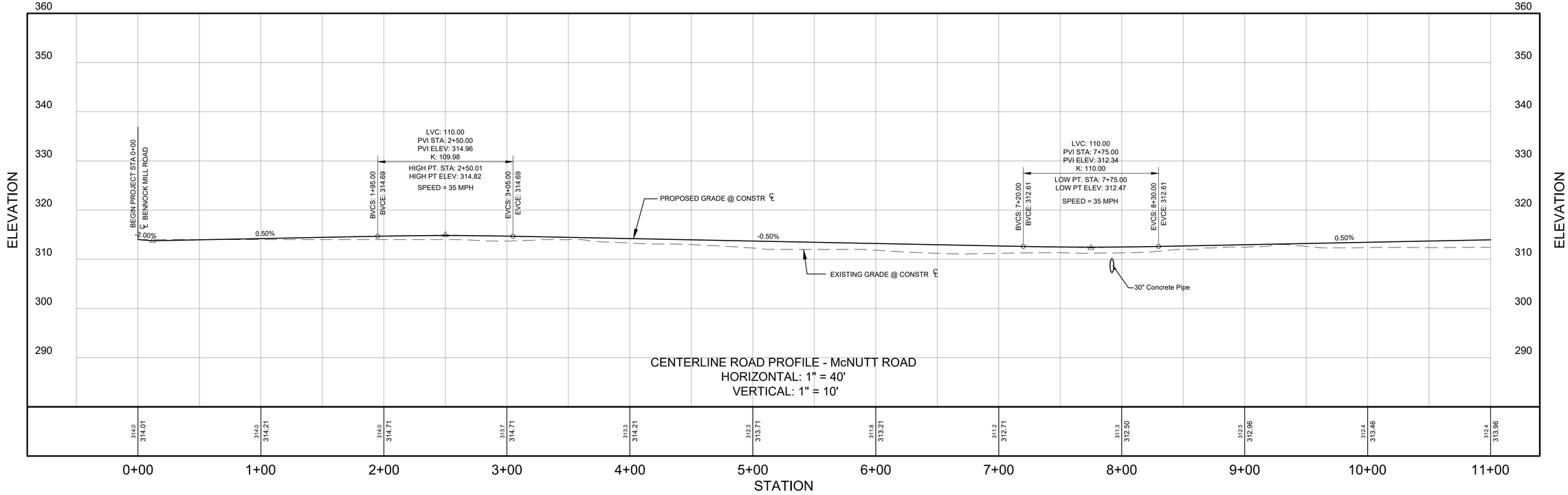
CURVE # C4
PI STA = 8+60.09
PI N = 1197792.48
PI E = 731867.83
DELTA = 38° 10' 57"
D (ARC) = 16° 20' 42"
T = 121.33
L = 233.60
R = 350.54

PROJECT: —



CURVE # C4
PI STA = 8+60.09
PI N = 1197792.48
PI E = 731867.83
DELTA = 38° 10' 57"
D (ARC) = 16° 20' 42"
T = 121.33
L = 233.60
R = 350.54

NOTES:
1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.



GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY

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	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

Augusta Georgia

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

PLAN AND PROFILE

McNUTT ROAD
0+00 to 10+50

DRAWING NUMBER
13 - 0001

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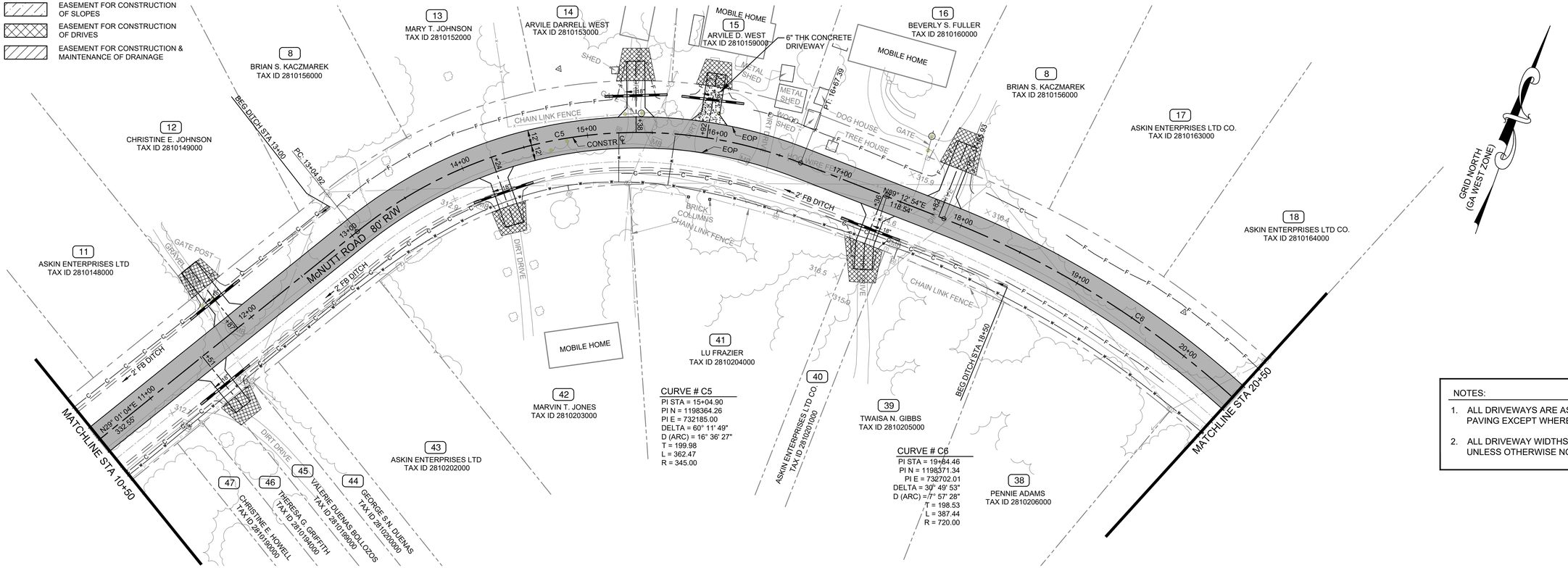
PROJECT: —

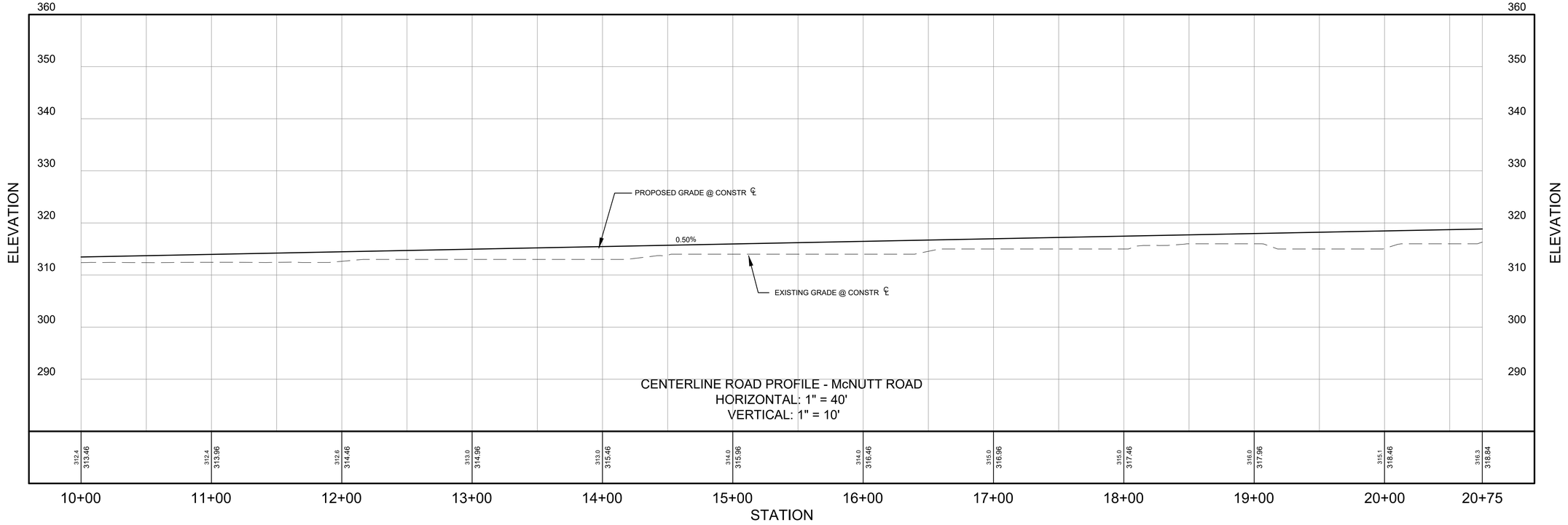
EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



CURVE # C5
PI STA = 15+04.90
PI N = 1198364.26
PI E = 732185.00
DELTA = 60° 11' 49"
D (ARC) = 16° 36' 27"
T = 199.98
L = 362.47
R = 345.00

CURVE # C6
PI STA = 19+64.46
PI N = 1198371.34
PI E = 732702.01
DELTA = 30° 49' 53"
D (ARC) = 7° 57' 28"
T = 198.53
L = 387.44
R = 720.00

NOTES:
1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.



CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

PLAN AND PROFILE

McNUTT ROAD
10+50 to 20+50

DRAWING NUMBER
13 - 0002

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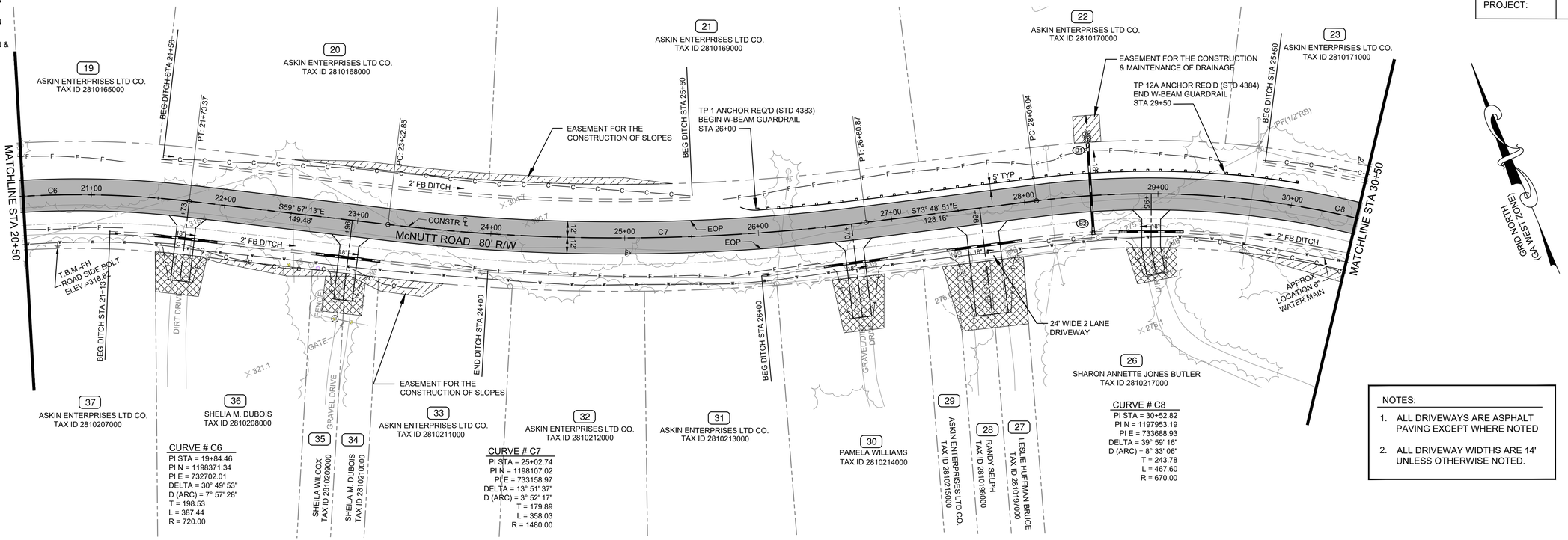
EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE

PROJECT: —

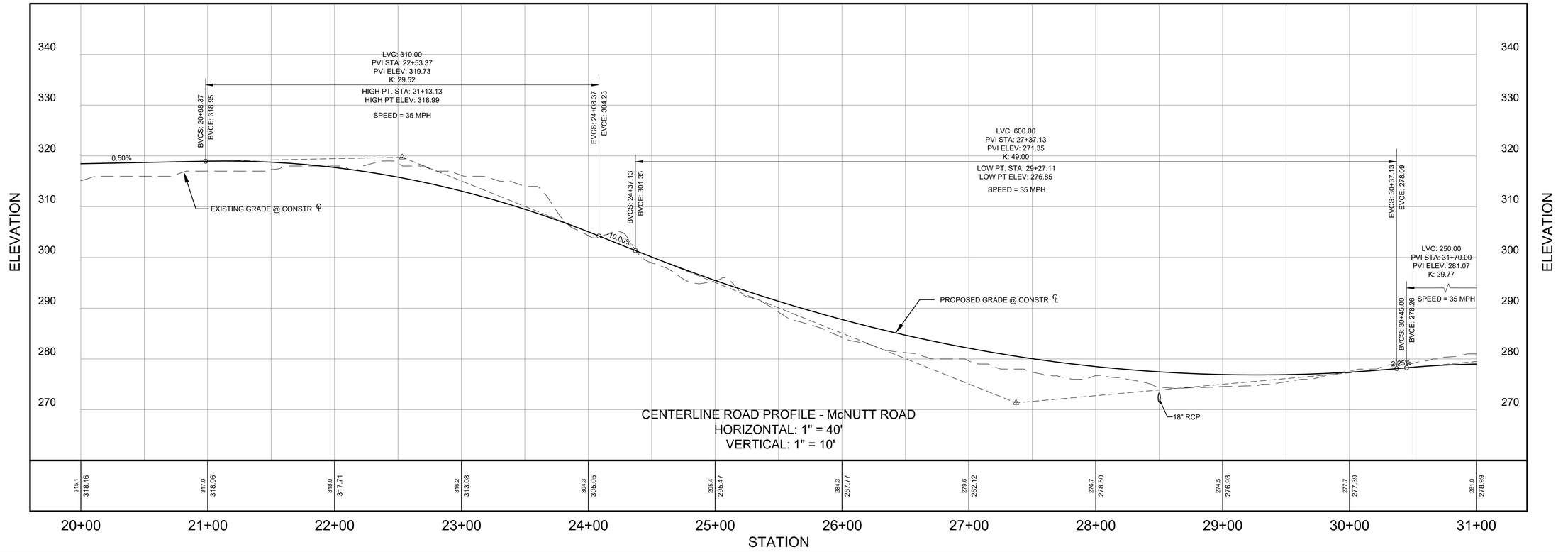


CURVE # C6
PI STA = 19+84.46
PI N = 1198371.34
PI E = 732702.01
DELTA = 30° 49' 53"
D (ARC) = 7° 57' 28"
T = 198.53
L = 387.44
R = 720.00

CURVE # C7
PI STA = 25+02.74
PI N = 1198107.02
PI E = 733158.97
DELTA = 13° 51' 37"
D (ARC) = 3° 52' 17"
T = 179.89
L = 358.03
R = 1480.00

CURVE # C8
PI STA = 30+52.82
PI N = 1197953.19
PI E = 733688.93
DELTA = 39° 59' 16"
D (ARC) = 8° 33' 06"
T = 243.78
L = 467.60
R = 670.00

NOTES:
1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.



CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

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VERTICAL SCALE: 1" = 10'

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Augusta Georgia

McNUTT ROAD
ROAD CONSTRUCTION PLANS

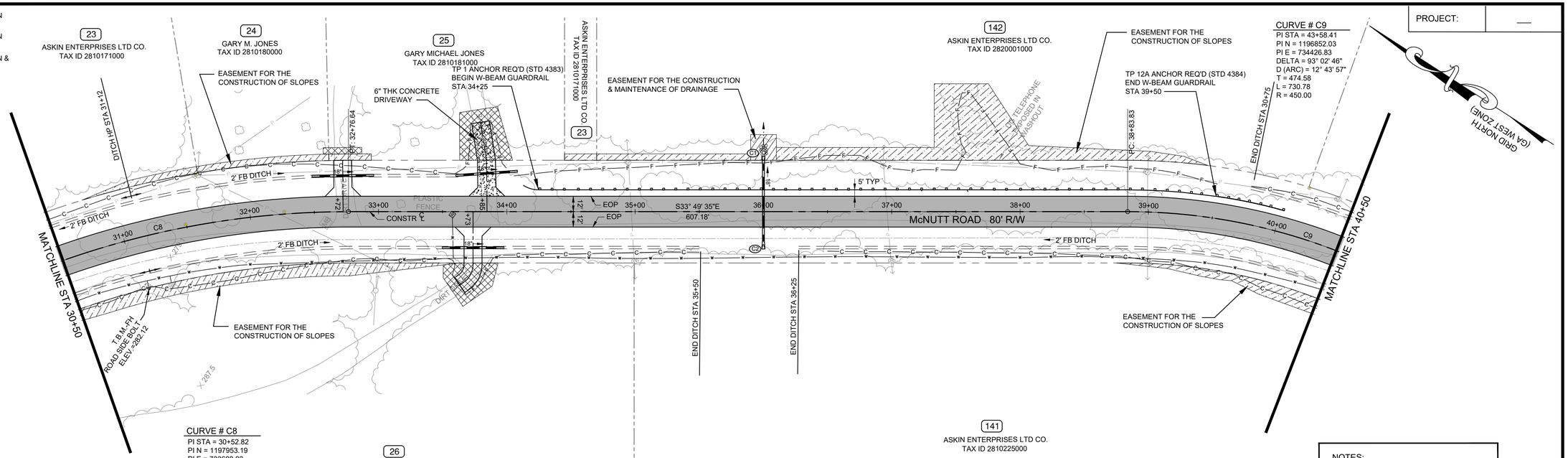
REVISION DATES

PLAN AND PLOT

McNUTT ROAD
20+50 to 30+50

DRAWING NUMBER
13 - 0003

EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



NOTES:

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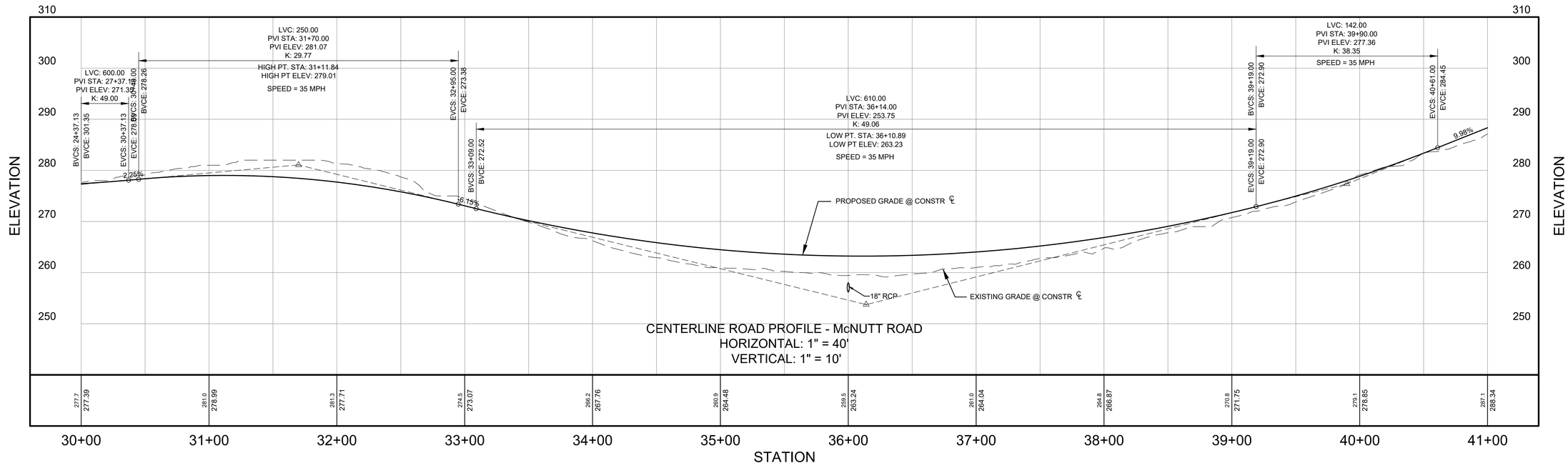
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.



CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

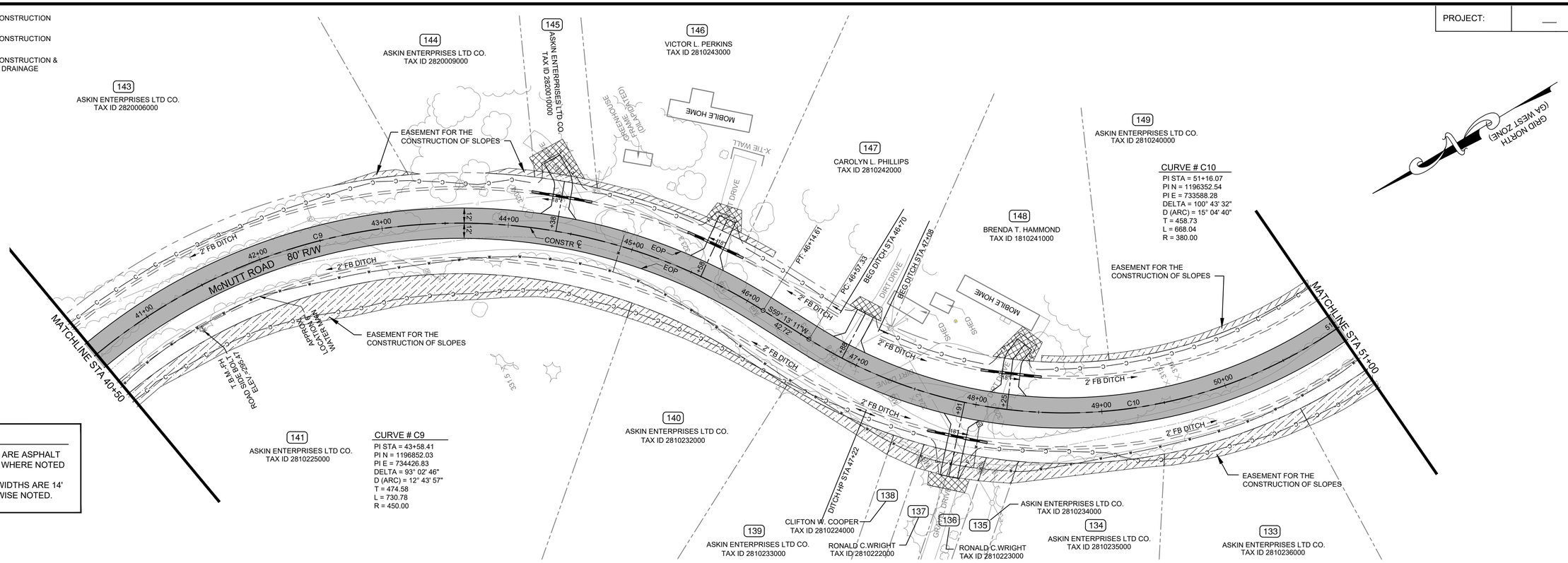
PLAN AND PROFILE

McNUTT ROAD
30+50 to 40+50

DRAWING NUMBER
13 - 0004

PROJECT: —

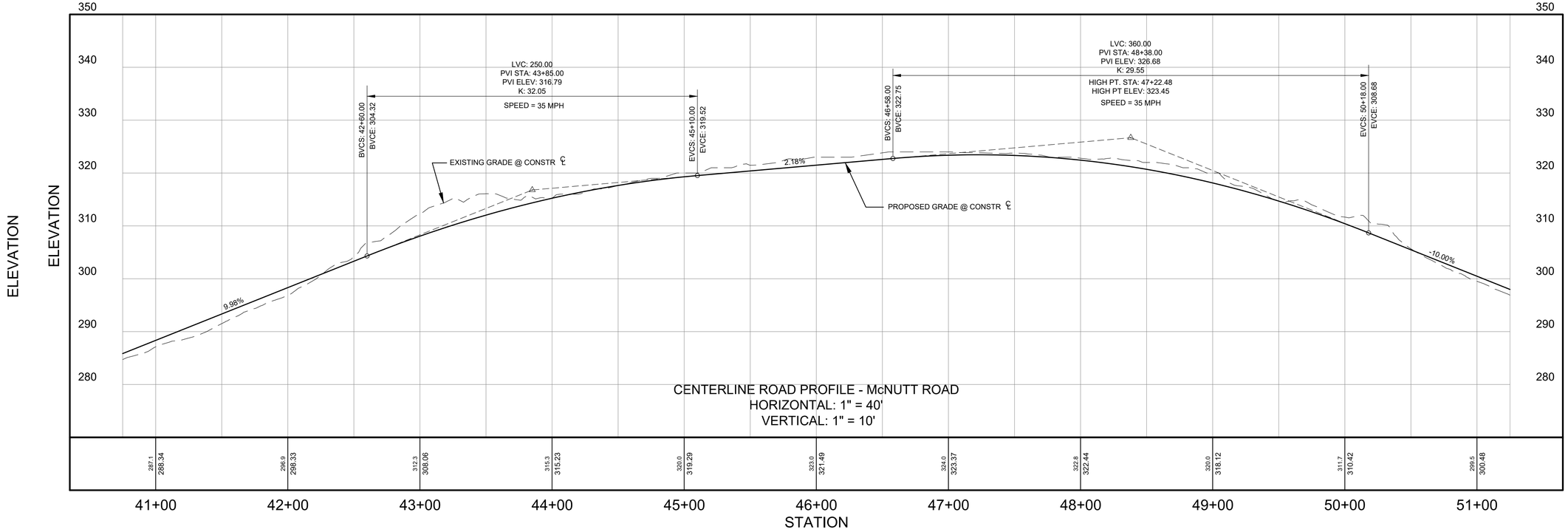
EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



CURVE # C9
PI STA = 43+58.41
PI N = 1196852.03
PI E = 734426.83
DELTA = 93° 02' 46"
D (ARC) = 12° 43' 57"
T = 474.58
L = 730.78
R = 450.00

CURVE # C10
PI STA = 51+16.07
PI N = 1196352.54
PI E = 733588.28
DELTA = 100° 43' 32"
D (ARC) = 15° 04' 40"
T = 458.73
L = 668.04
R = 380.00

NOTES:
1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.



GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

PLAN AND PROFILE
McNUTT ROAD
40+50 to 51+00

DRAWING NUMBER
13 - 0005

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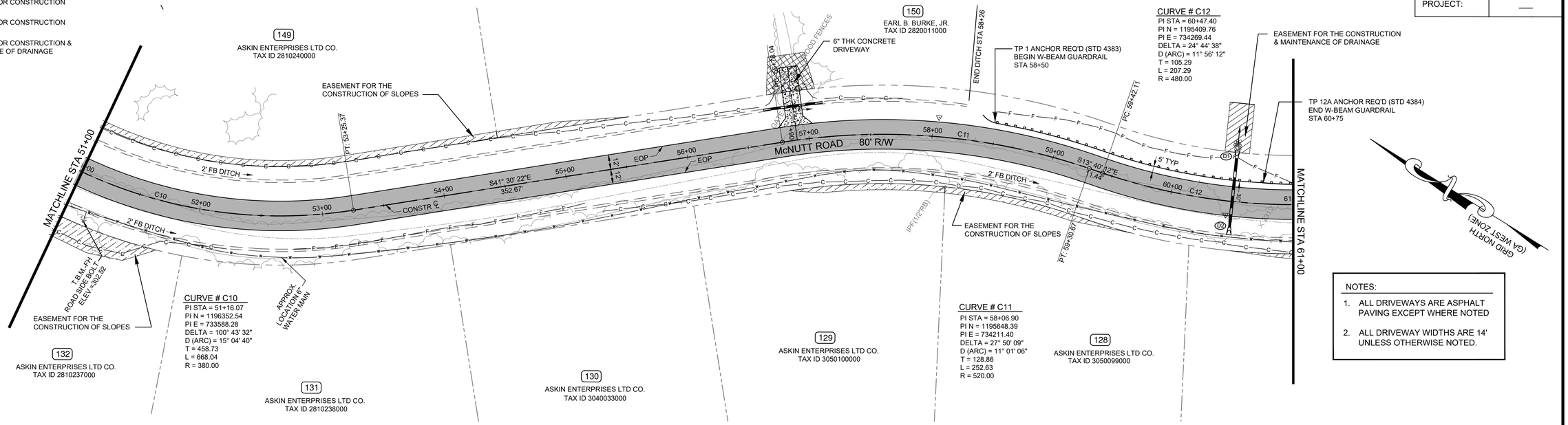
EASEMENT FOR CONSTRUCTION OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE

PROJECT: —



NOTES:

1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.

CURVE # C10
PI STA = 51+16.07
PI N = 1196352.54
PI E = 733588.28
DELTA = 100° 43' 32"
D (ARC) = 15° 04' 40"
T = 458.73
L = 668.04
R = 380.00

CURVE # C11
PI STA = 58+06.90
PI N = 1195648.39
PI E = 734211.40
DELTA = 27° 50' 09"
D (ARC) = 11° 01' 06"
T = 128.86
L = 252.63
R = 520.00

132
ASKIN ENTERPRISES LTD CO.
TAX ID 2810237000

131
ASKIN ENTERPRISES LTD CO.
TAX ID 2810238000

130
ASKIN ENTERPRISES LTD CO.
TAX ID 3040033000

129
ASKIN ENTERPRISES LTD CO.
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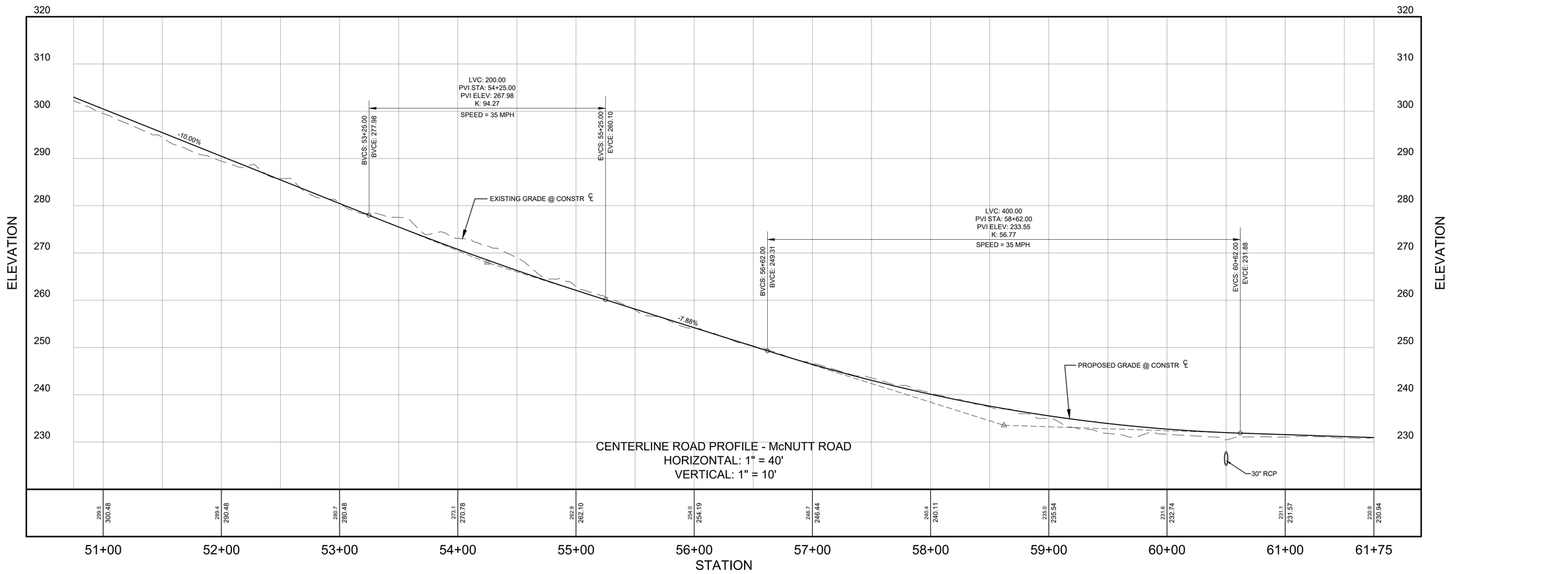
128
ASKIN ENTERPRISES LTD CO.
TAX ID 3050099000



CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

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HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

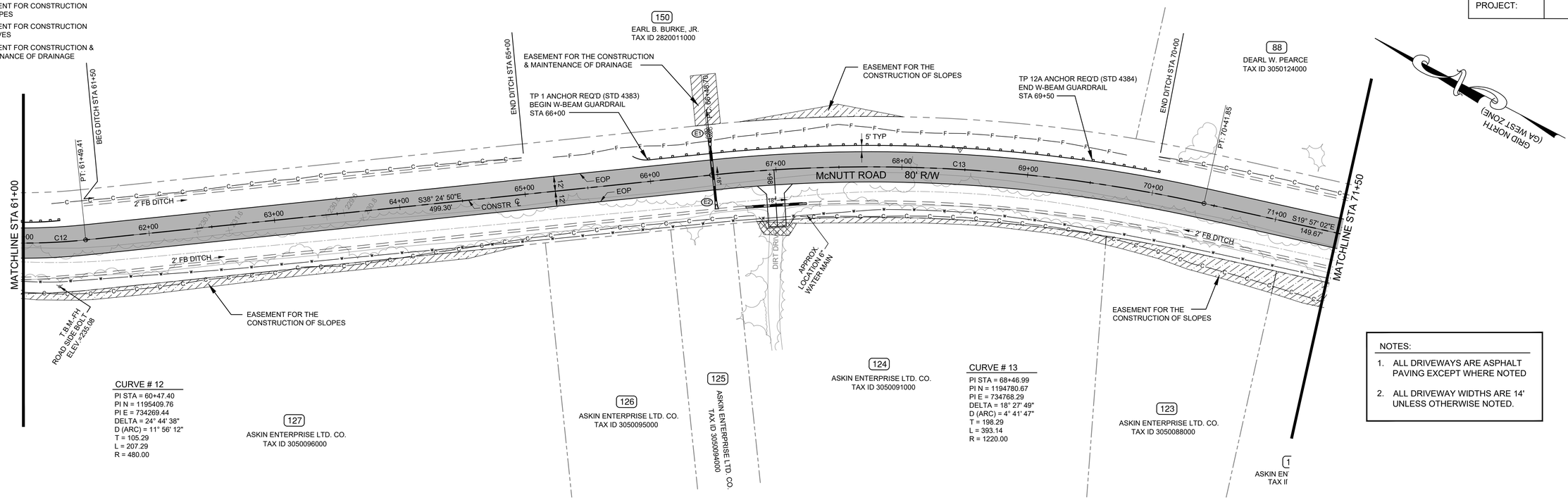
PLAN AND PROFILE

McNUTT ROAD
51+00 to 61+00

DRAWING NUMBER
13 - 0006

PROJECT: —

EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



CURVE # 12
PI STA = 60+47.40
PI N = 1195409.76
PI E = 734269.44
DELTA = 24° 44' 38"
D (ARC) = 11° 56' 12"
T = 105.29
L = 207.29
R = 480.00

CURVE # 13
PI STA = 68+46.99
PI N = 1194780.67
PI E = 734768.29
DELTA = 18° 27' 49"
D (ARC) = 4° 41' 47"
T = 198.29
L = 393.14
R = 1220.00

NOTES:
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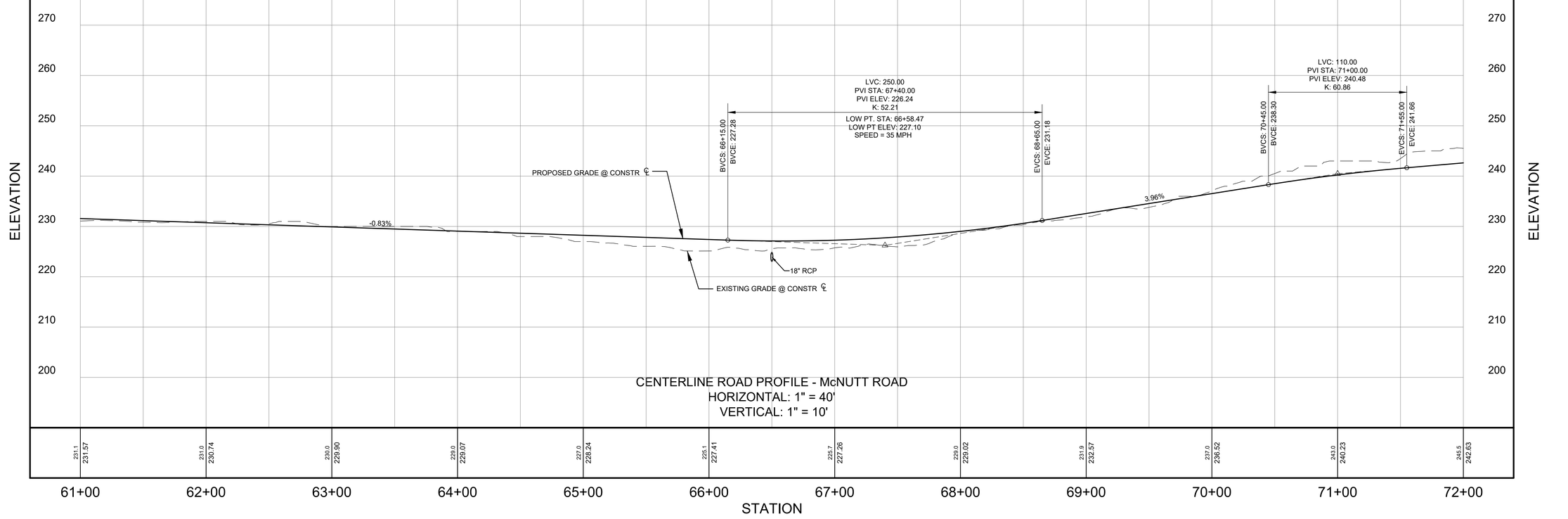

CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

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HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

PLAN AND PROFILE

McNUTT ROAD
61+00 to 71+50

DRAWING NUMBER
13 - 0007

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PROJECT: —

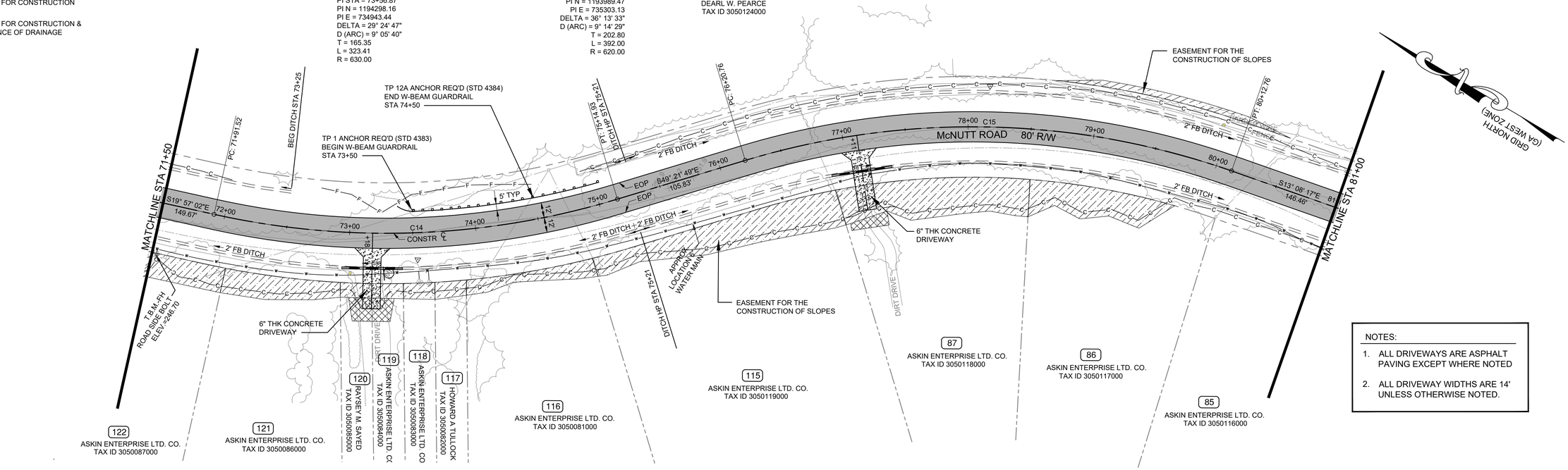
EASEMENT FOR CONSTRUCTION OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE

CURVE # C14
PI STA = 73+56.87
PI N = 1194298.16
PI E = 734943.44
DELTA = 29° 24' 47"
D (ARC) = 9° 05' 40"
T = 165.35
L = 323.41
R = 630.00

CURVE # C15
PI STA = 78+23.57
PI N = 1193989.47
PI E = 735303.13
DELTA = 36° 13' 33"
D (ARC) = 9° 14' 29"
T = 202.80
L = 392.00
R = 620.00



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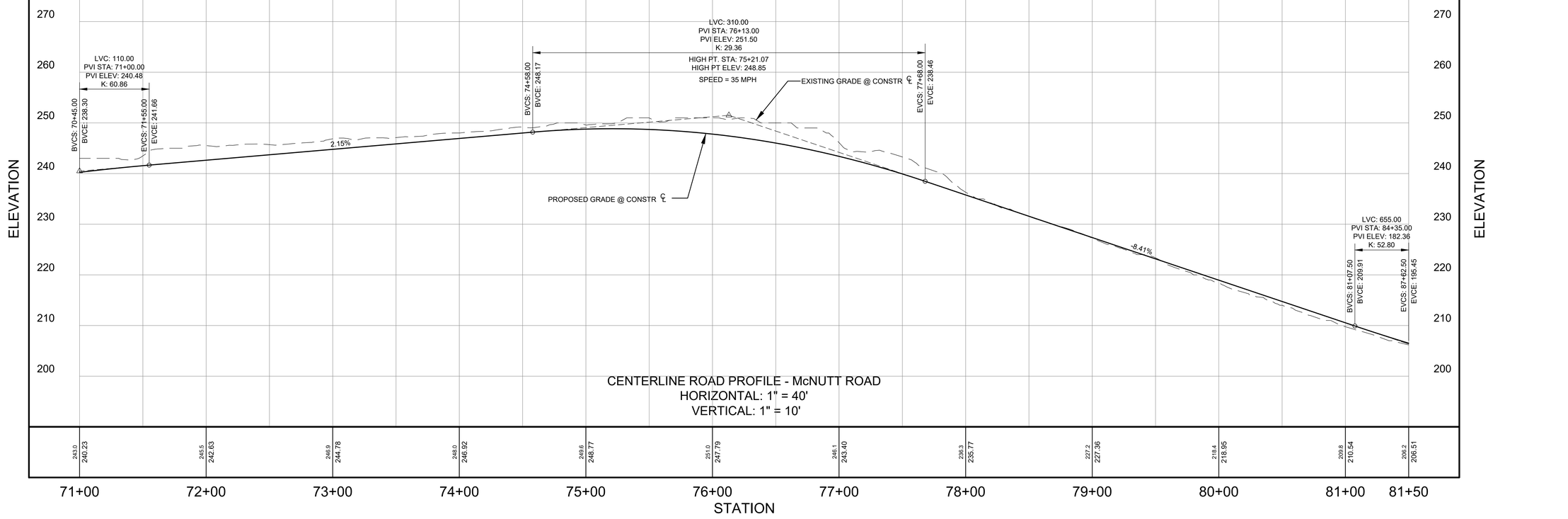

CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

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HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

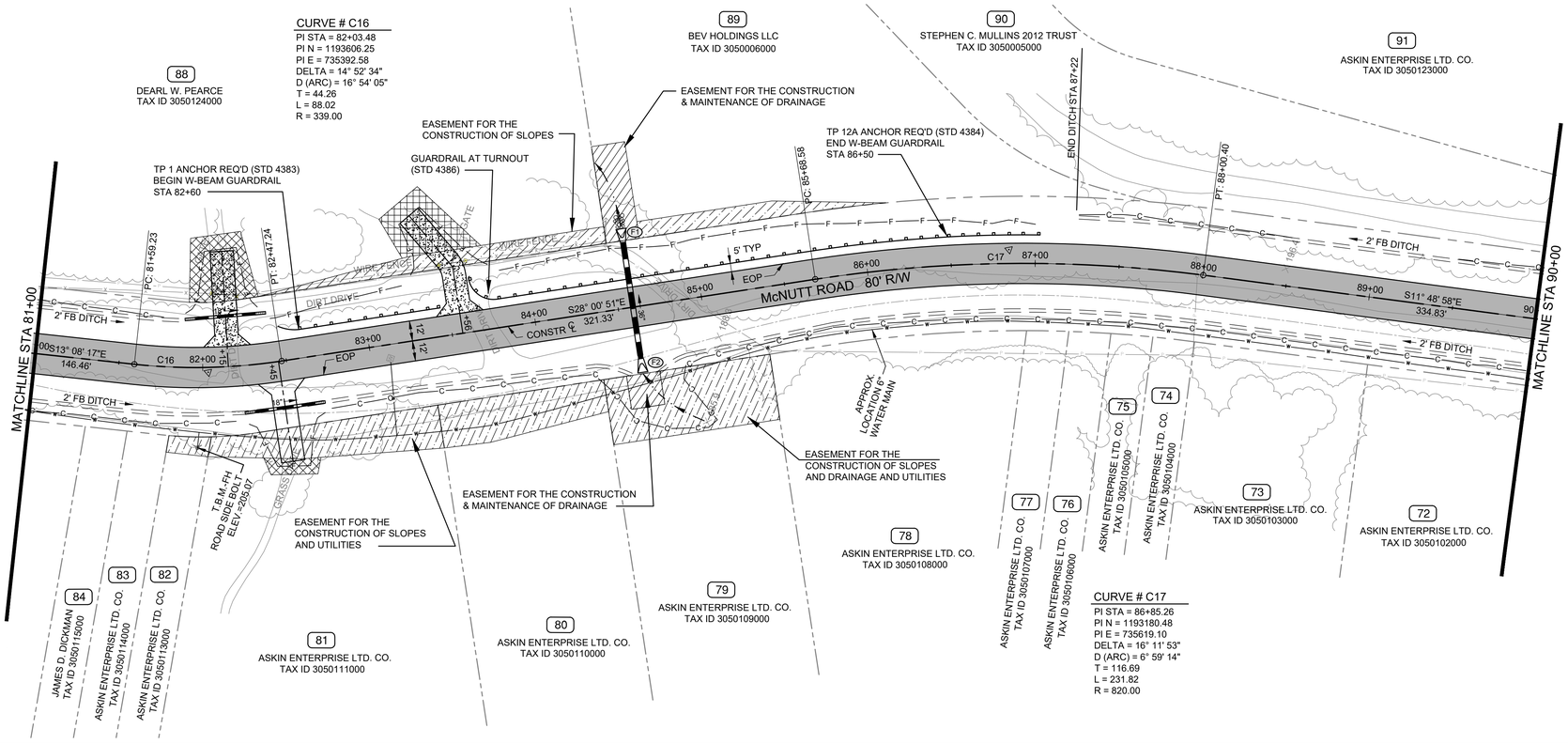
PLAN AND PROFILE

McNUTT ROAD
71+50 to 81+00

DRAWING NUMBER
13 - 0008

PROJECT: —

EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



NOTES:

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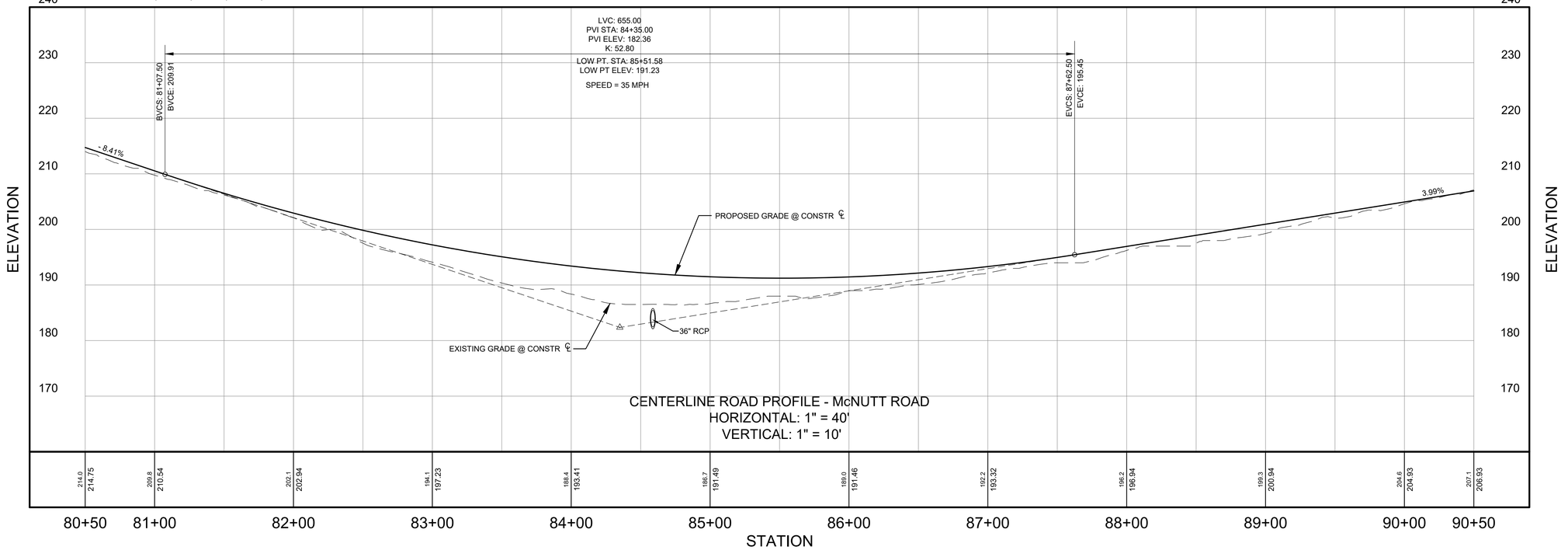

CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

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HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

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Moreland Altobelli Associates, LLC
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Cumming, Georgia 30040
Telephone (770) 781-5507

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DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

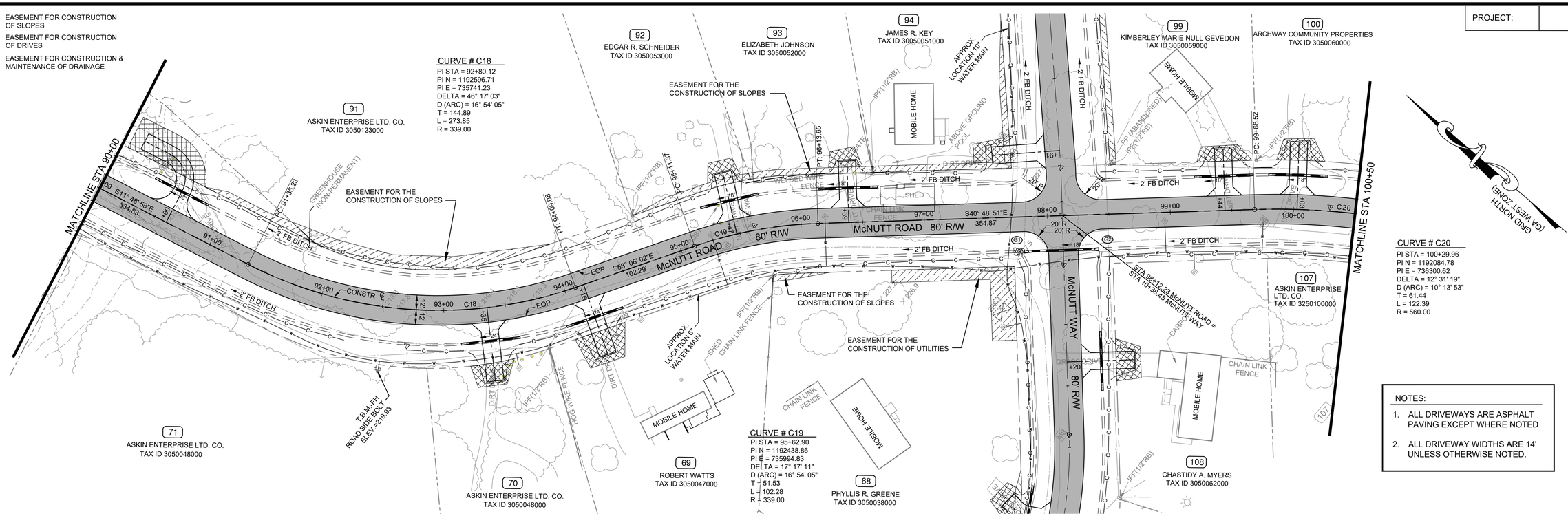
PLAN AND PROFILE

McNUTT ROAD
81+00 to 90+00

DRAWING NUMBER
13 - 0009

PROJECT: —

EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



CURVE # C18
PI STA = 92+80.12
PI N = 1192596.71
PI E = 735741.23
DELTA = 46° 17' 03"
D (ARC) = 16° 54' 05"
T = 144.89
L = 273.85
R = 339.00

CURVE # C19
PI STA = 95+62.90
PI N = 1192438.86
PI E = 735994.83
DELTA = 17° 17' 11"
D (ARC) = 16° 54' 05"
T = 51.53
L = 102.28
R = 339.00

CURVE # C20
PI STA = 100+29.96
PI N = 1192084.78
PI E = 736300.62
DELTA = 12° 31' 19"
D (ARC) = 10° 13' 53"
T = 61.44
L = 122.39
R = 560.00

NOTES:
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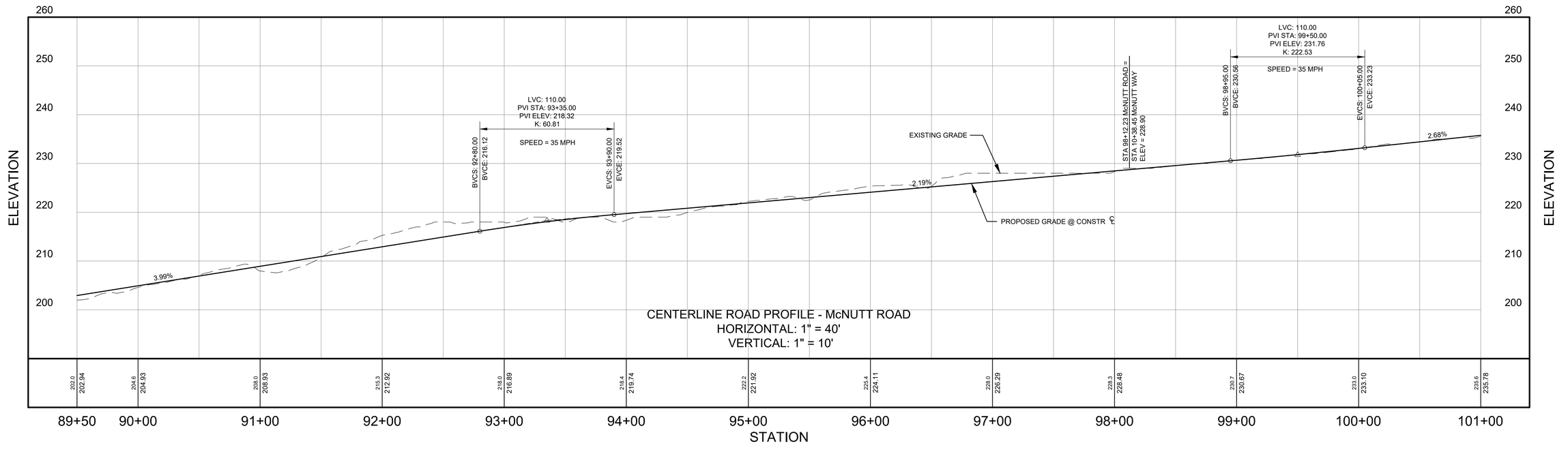
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.



CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

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HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

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327 Dahlonega Street
Suite 1401
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	NAME	DATE
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CHECKED BY	KEQ	03-12-20

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

PLAN AND PROFILE
McNUTT ROAD
90+00 to 100+50

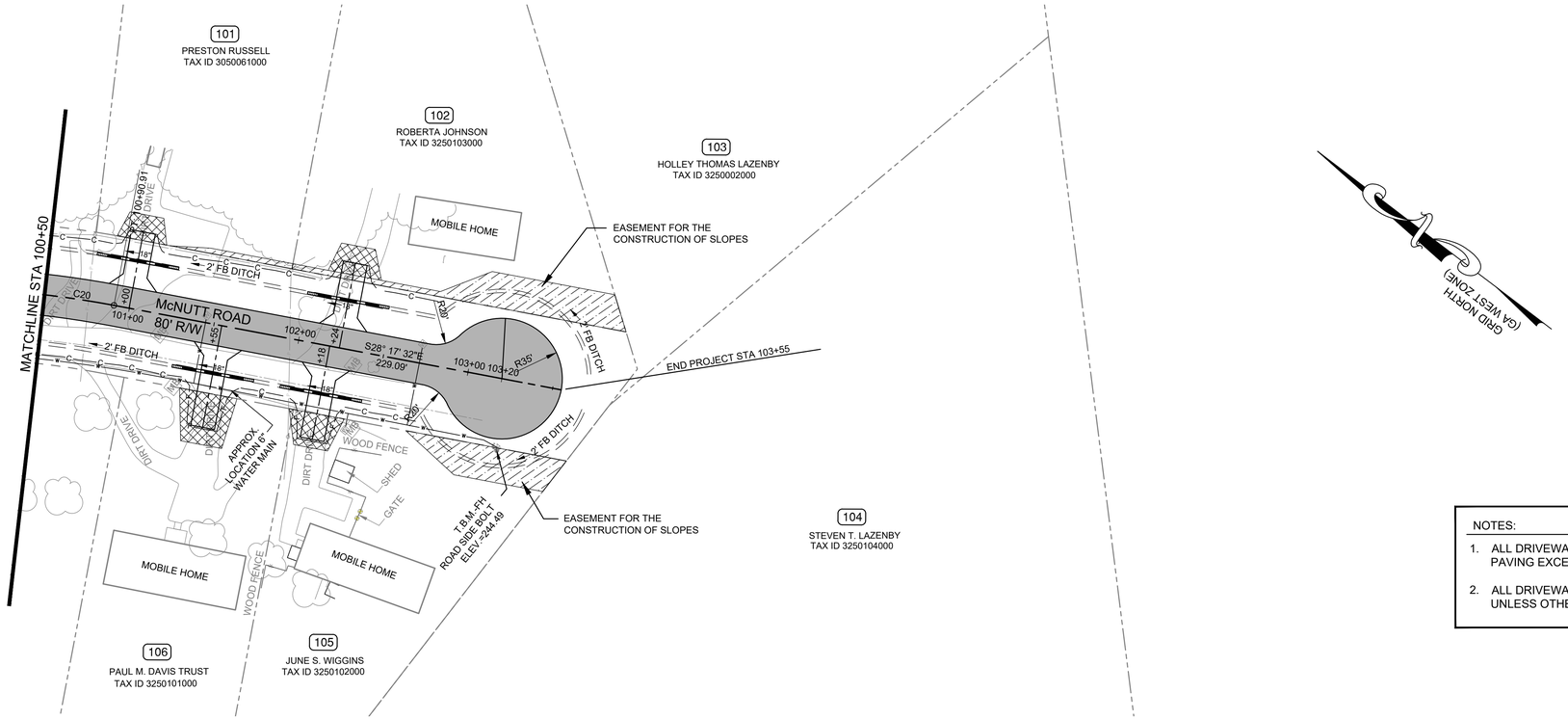
DRAWING NUMBER
13 - 0010

PROJECT: —

EASEMENT FOR CONSTRUCTION OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



CURVE # C20

PI STA = 100+29.96
PI N = 1192084.78
PI E = 736300.62
DELTA = 12° 31' 19"
D (ARC) = 10° 13' 53"
T = 61.44
L = 122.39
R = 560.00

NOTES:

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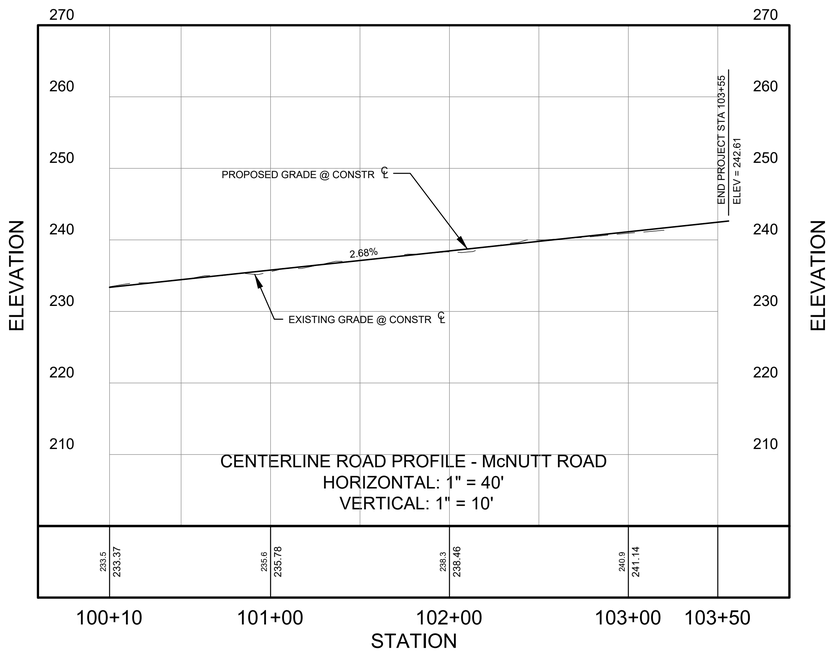
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.



HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

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Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

PLAN AND PROFILE

McNUTT ROAD
100+50 to END

DRAWING NUMBER

13 - 0011

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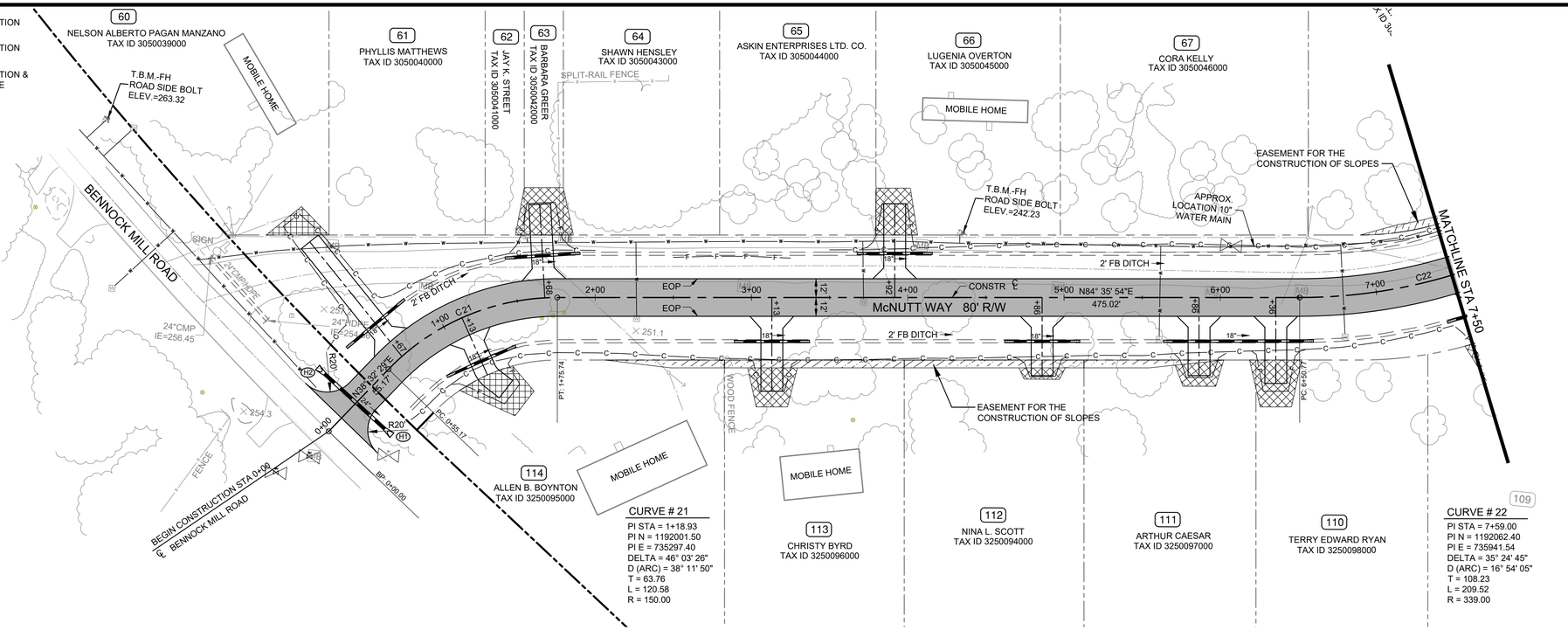
EASEMENT FOR CONSTRUCTION OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



CURVE # 21
PI STA = 1+18.93
PI N = 1192001.50
PI E = 735297.40
DELTA = 46° 03' 26"
D (ARC) = 38° 11' 50"
T = 63.76
L = 120.58
R = 150.00

CURVE # 22
PI STA = 7+59.00
PI N = 1192062.40
PI E = 735941.54
DELTA = 35° 24' 45"
D (ARC) = 16° 54' 05"
T = 108.23
L = 209.52
R = 339.00

NOTES:

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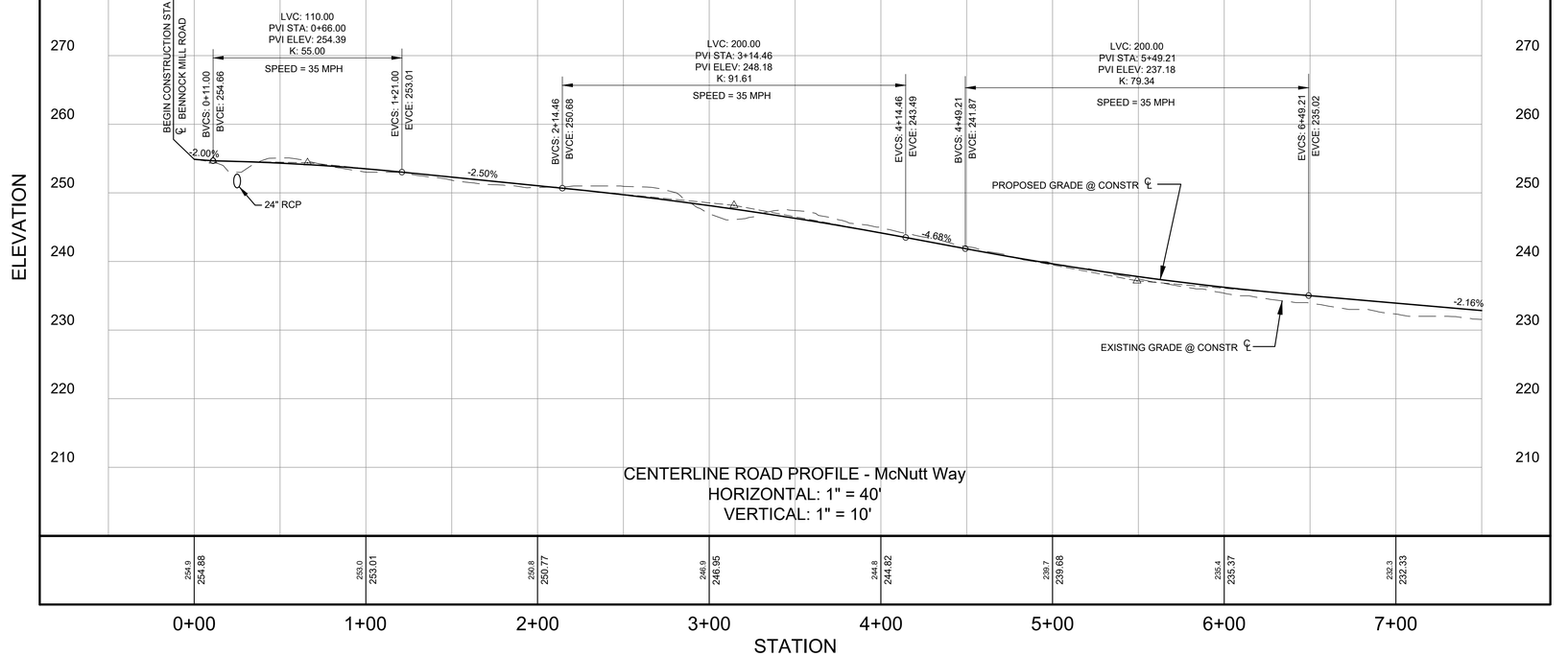

CENTERLINE ROAD PROFILE - McNutt Way
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

PROJECT: —

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HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
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	NAME	DATE
DESIGNED BY	NAA	03-12-20
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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

PLAN AND PROFILE

McNUTT WAY
0+00 to 7+50

DRAWING NUMBER
13 - 0012

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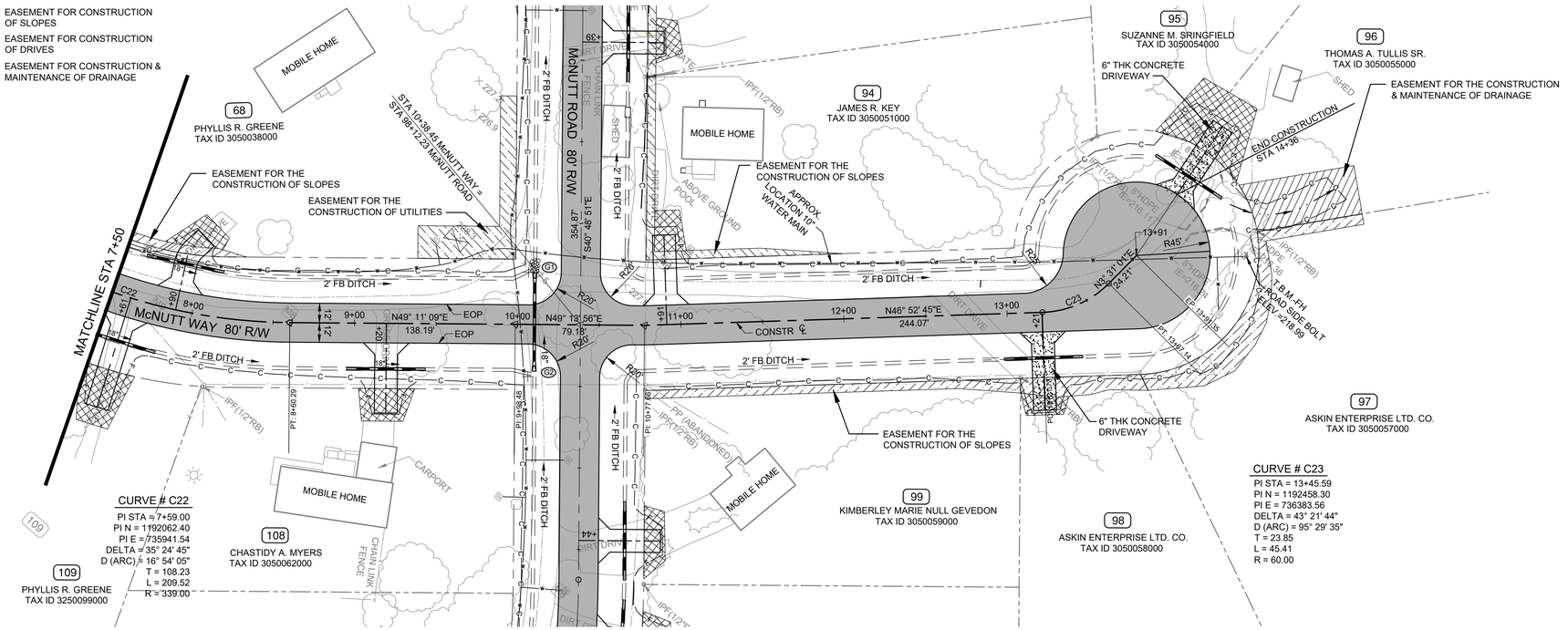
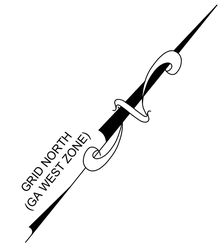
EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE





NOTES:

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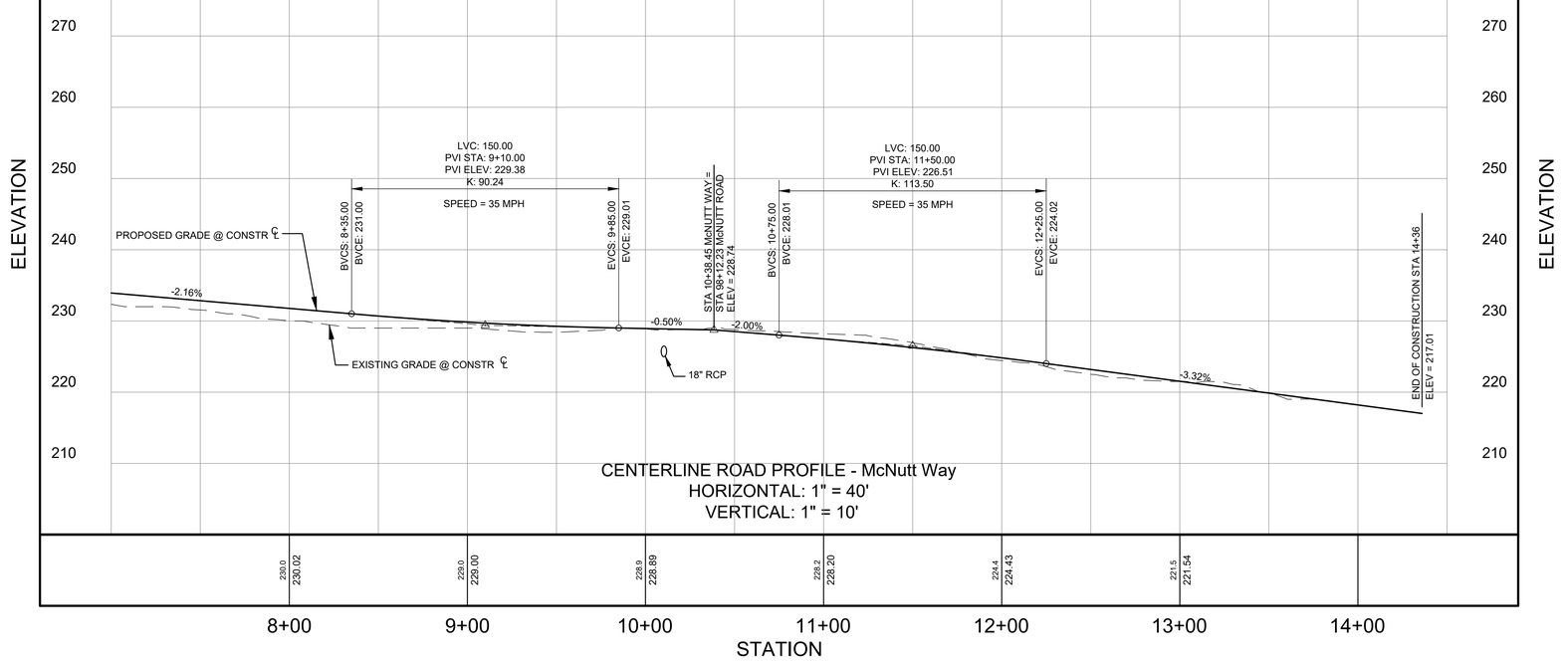

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HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

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Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
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DESIGNED BY	NAA	03-12-20
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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

PLAN AND PROFILE

McNUTT WAY
7+50 to END

DRAWING NUMBER
13 - 0013

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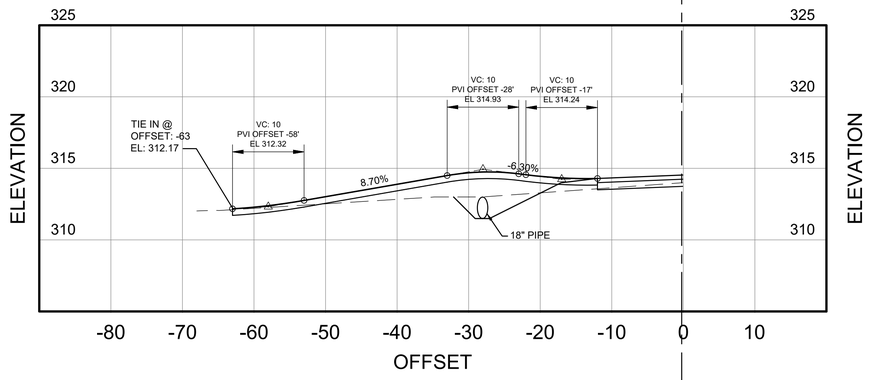
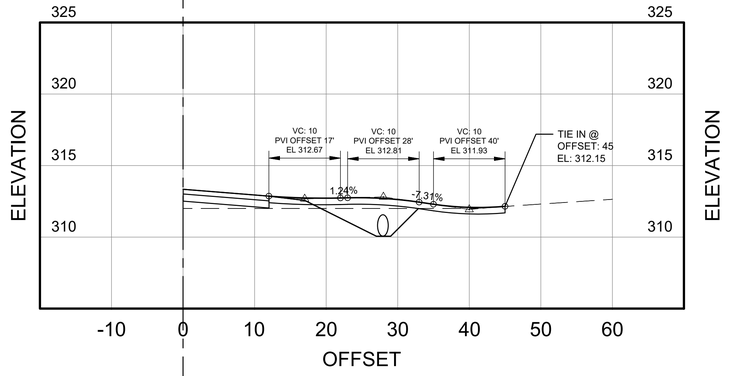
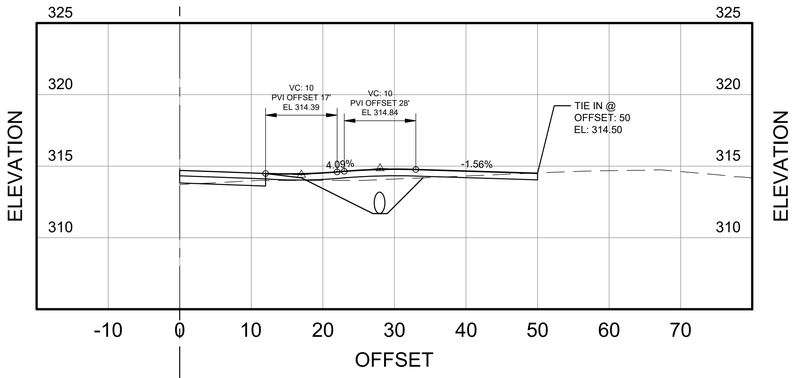
PROJECT: —



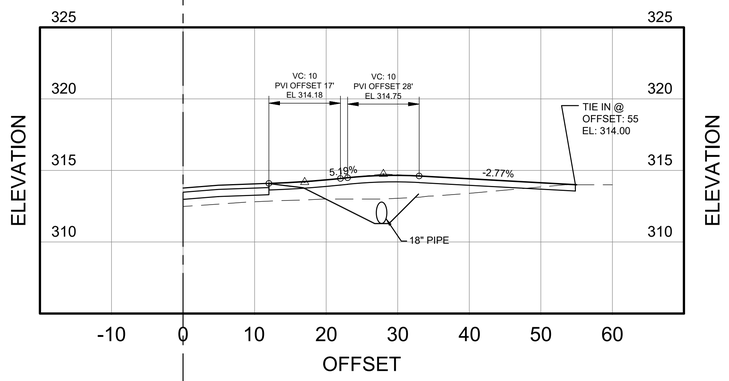
DRIVEWAY STA 3+35 LF (McNUTT ROAD)



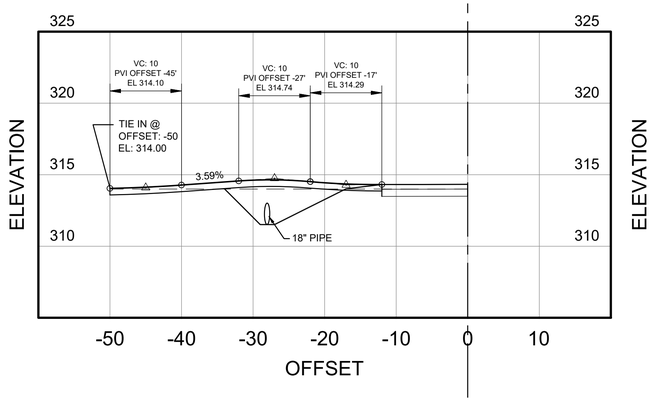
DRIVEWAY STA 5+74 RT (1)



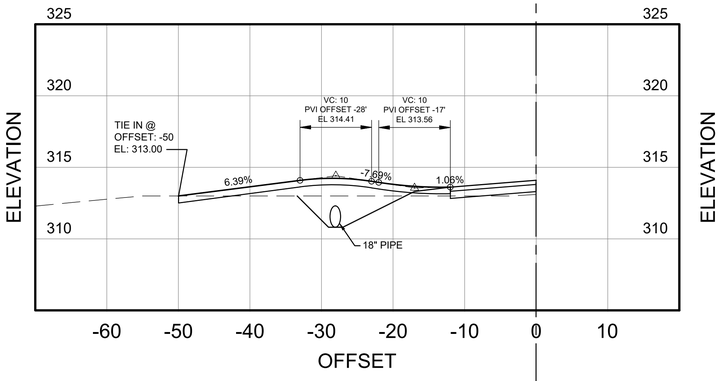
DRIVEWAY STA 3+02 RT (McNUTT ROAD)



DRIVEWAY STA 4+90 RT (McNUTT ROAD)



DRIVEWAY STA 1+23 LT (McNUTT ROAD)



DRIVEWAY STA 4+23 LF (McNUTT ROAD)

NOTE:
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VERTICAL SCALE: 1" = 5'

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Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

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CHECKED BY	KEQ	01-24-20

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

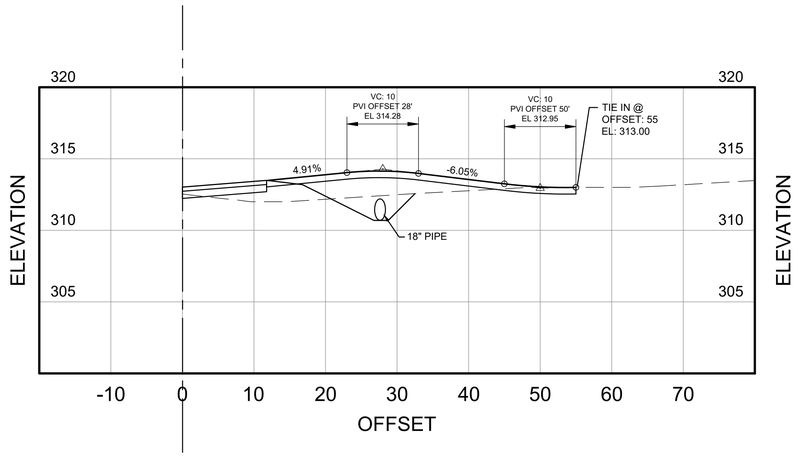
REVISION DATES

DRIVEWAY PROFILES

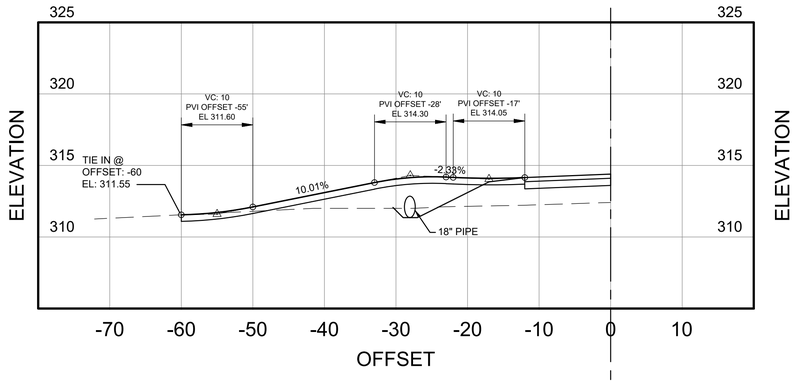
McNUTT ROAD
1+23 to 6+41

DRAWING NUMBER
17 - 0001

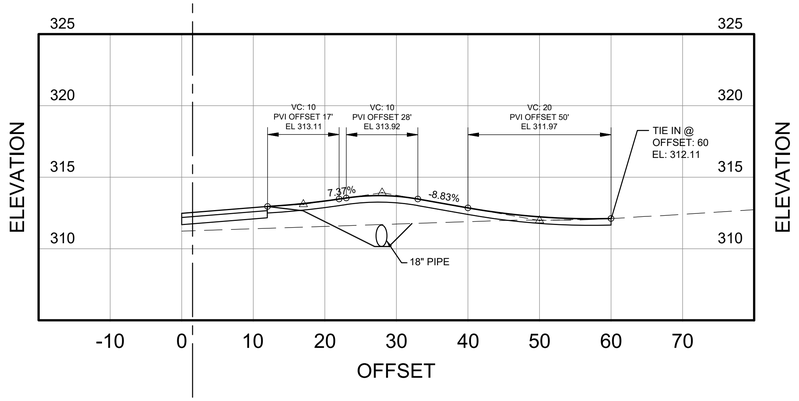
PROJECT: —



DRIVEWAY STA 9+11 RT (McNUTT ROAD)



DRIVEWAY STA 11+87 LT (McNUTT ROAD)



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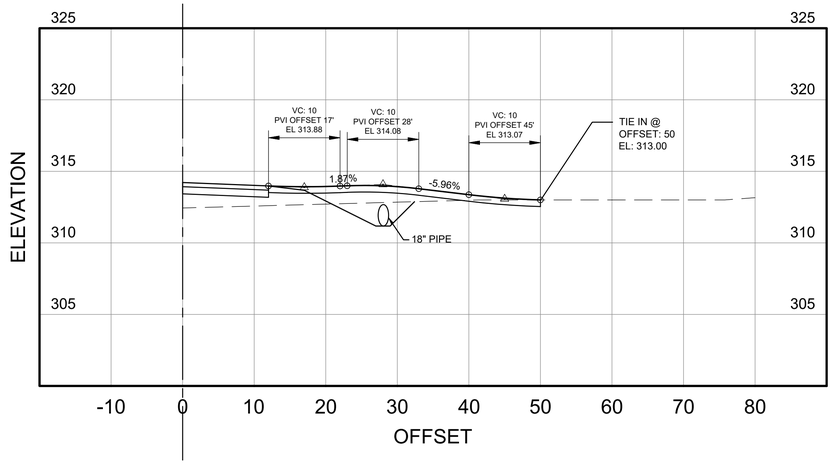

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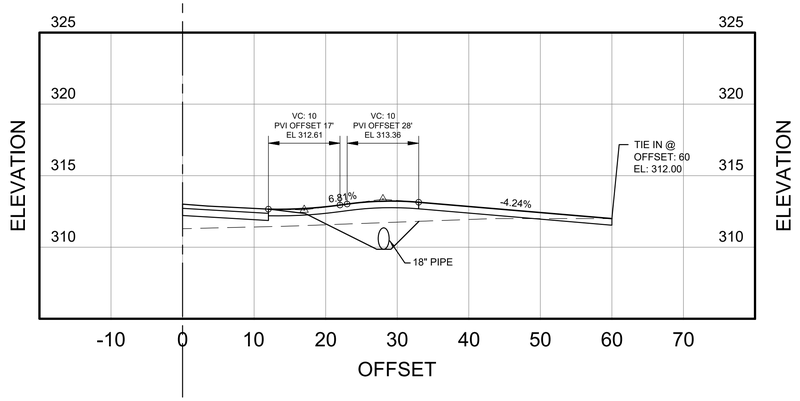

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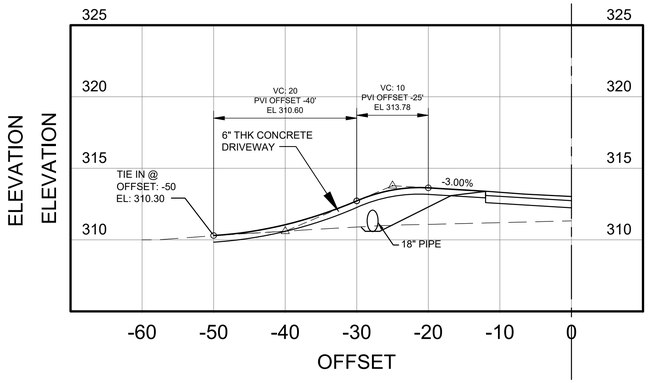
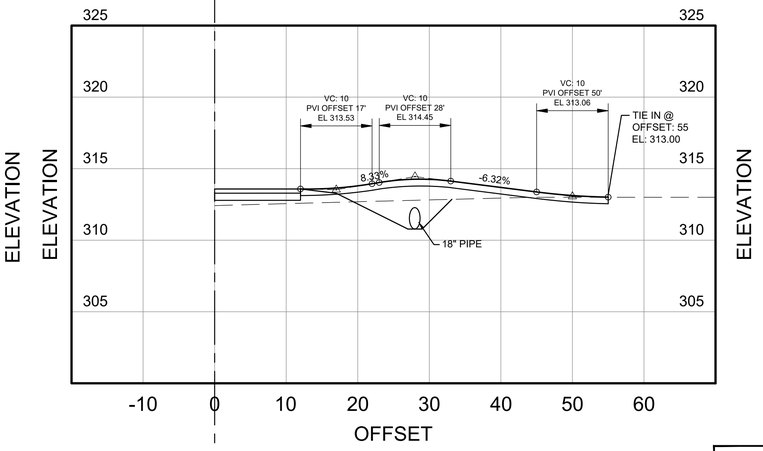


DRIVEWAY STA 6+38 LT (McNUTT ROAD)



DRIVEWAY STA 10+23 RT (McNUTT ROAD)

NOTE:
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DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

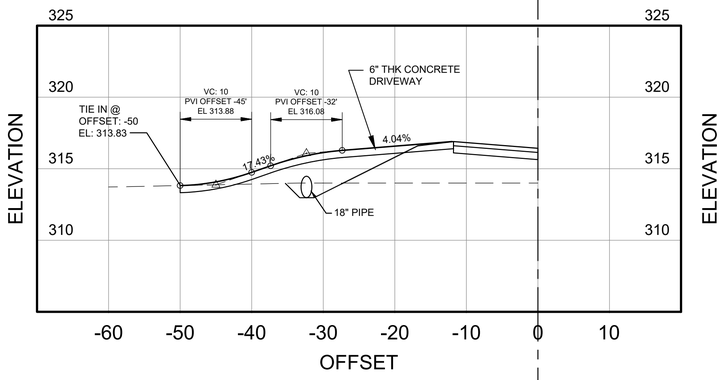
REVISION DATES

DRIVEWAY PROFILES

McNUTT ROAD
7+69 to 14+24

DRAWING NUMBER
17 - 0002

PROJECT: —



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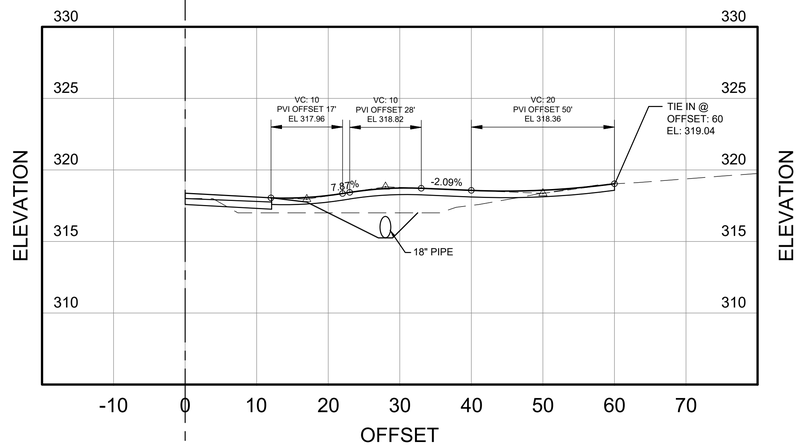
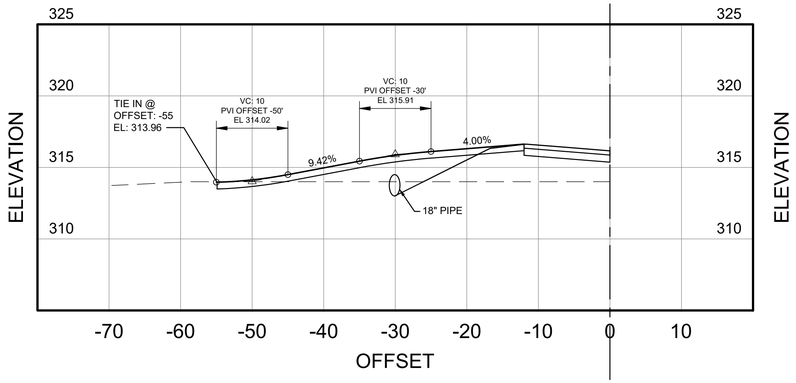


DRIVEWAY STA 21+73 RT (McNUTT ROAD)



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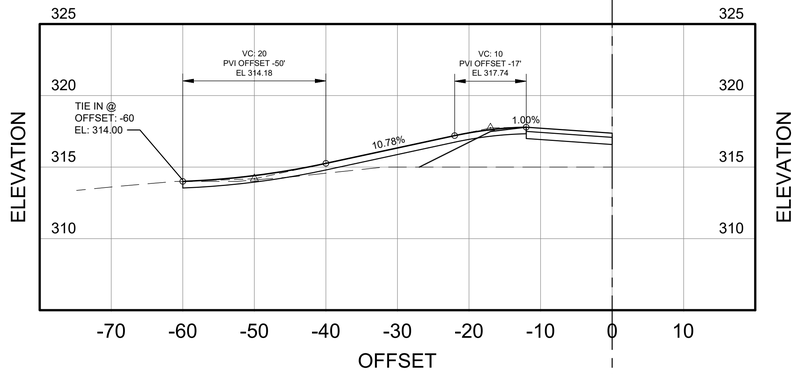
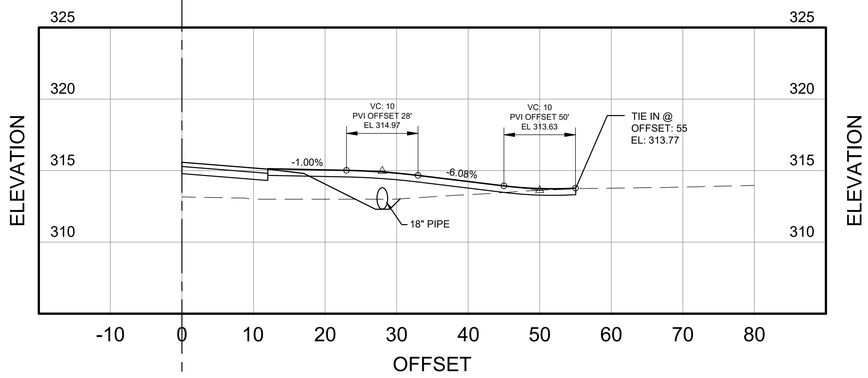


DRIVEWAY STA 17+82 LT (McNUTT ROAD)



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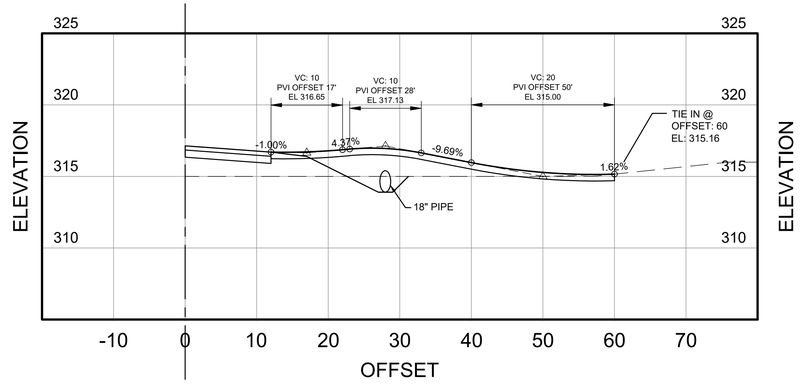

DRIVEWAY STA 17+36 RT (McNUTT ROAD)

NOTE:
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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

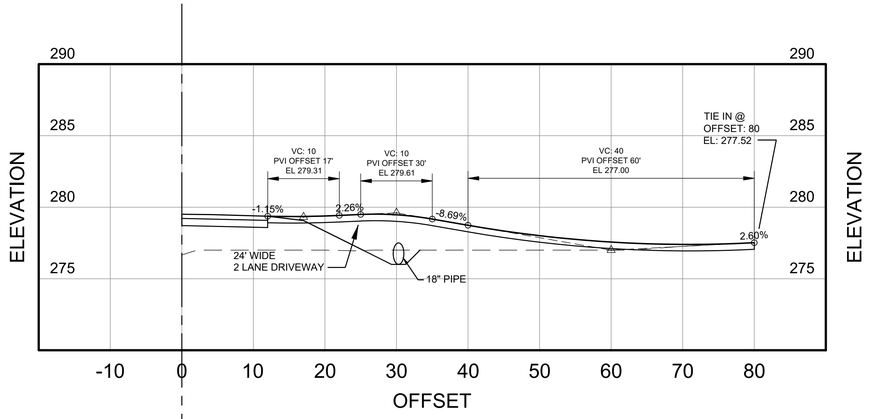
DRIVEWAY PROFILES

McNUTT ROAD
15+38 to 22+96

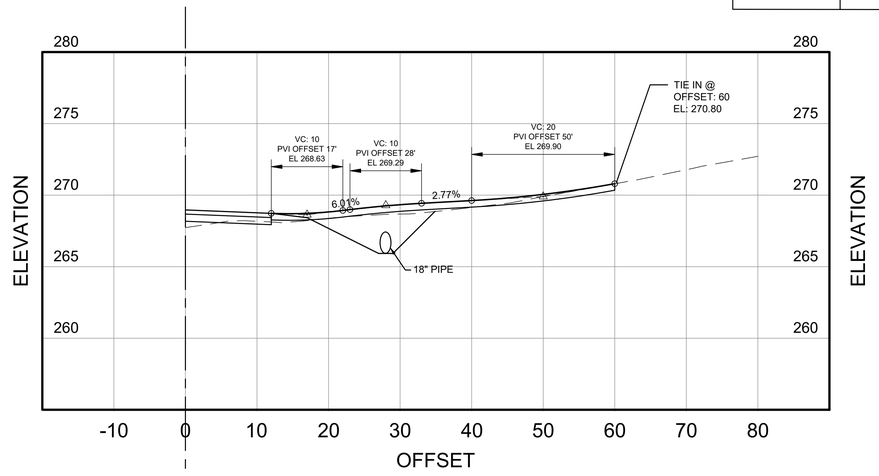
DRAWING NUMBER
17 - 0003

D:\Data\Projects\McNutt Road\Design\McNutt Road Driveway And Drainage Profiles (10-2-19).dwg, 5/28/2021 8:25:50 AM

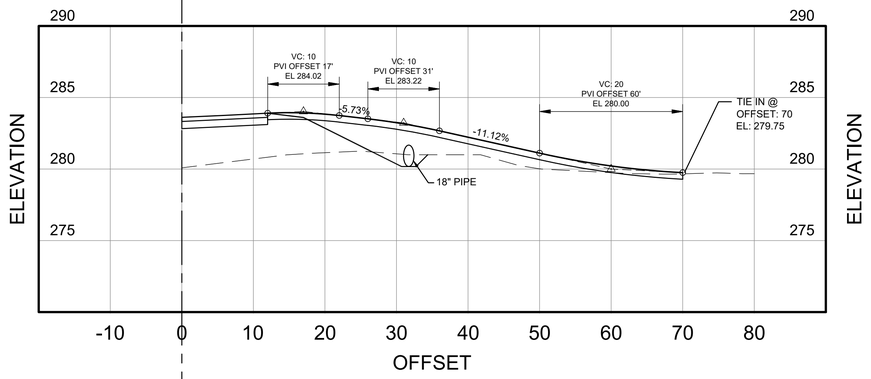
PROJECT: —



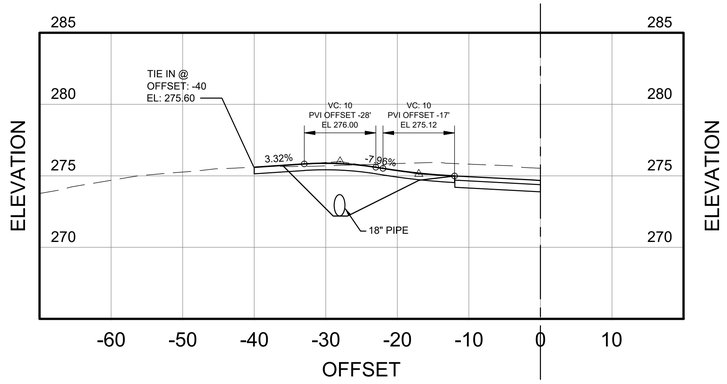
DRIVEWAY STA 27+66 RT (McNUTT ROAD)



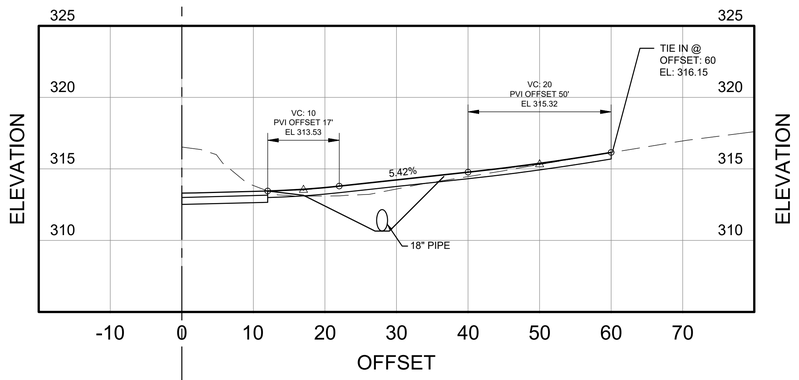
DRIVEWAY STA 33+73 RT (McNUTT ROAD)



DRIVEWAY STA 26+70 RT (McNUTT ROAD)

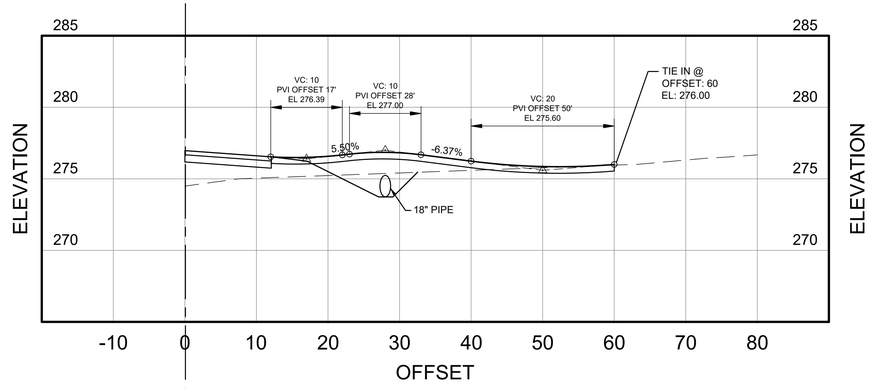


DRIVEWAY STA 32+72 LT (McNUTT ROAD)



DRIVEWAY STA 22+96 RT (McNUTT ROAD)

NOTE:
ALL DRIVEWAYS ARE ASPHALT
PAVING EXCEPT WHERE NOTED



DRIVEWAY STA 28+95 RT (McNUTT ROAD)

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

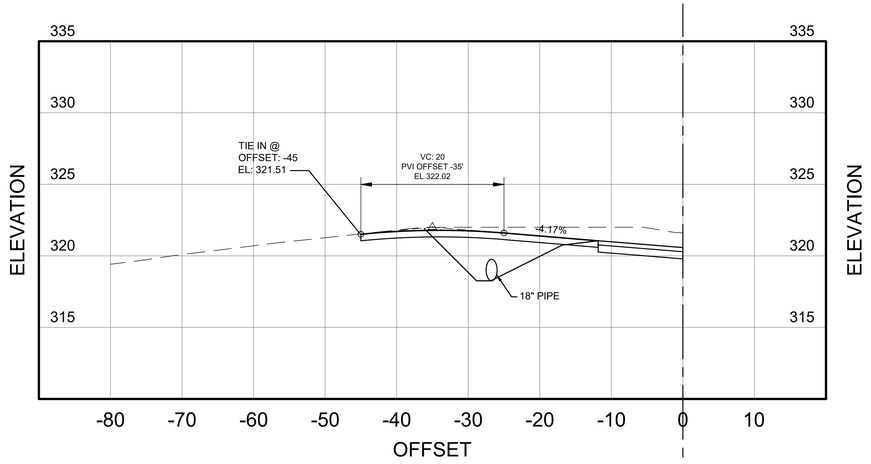
REVISION DATES

DRIVEWAY PROFILES

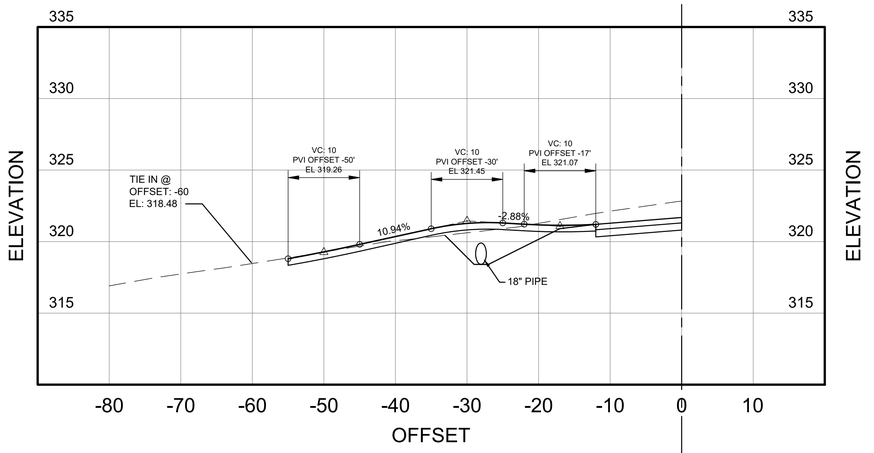
McNUTT ROAD
26+70 to 33+85

DRAWING NUMBER
17 - 0004

PROJECT: —



DRIVEWAY STA 45+58 LT (McNUTT ROAD)



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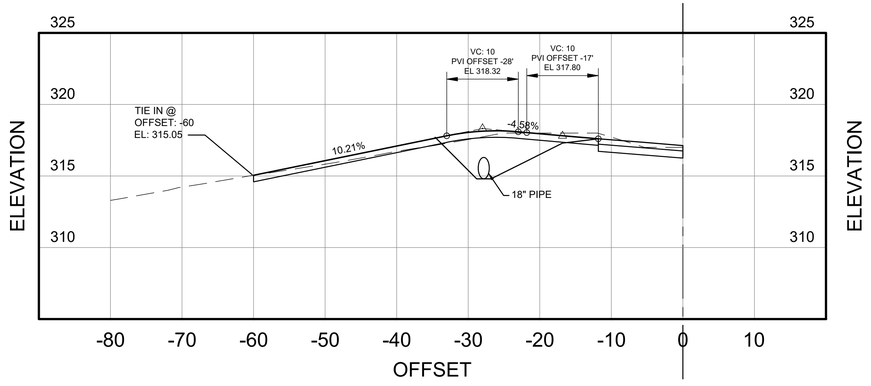

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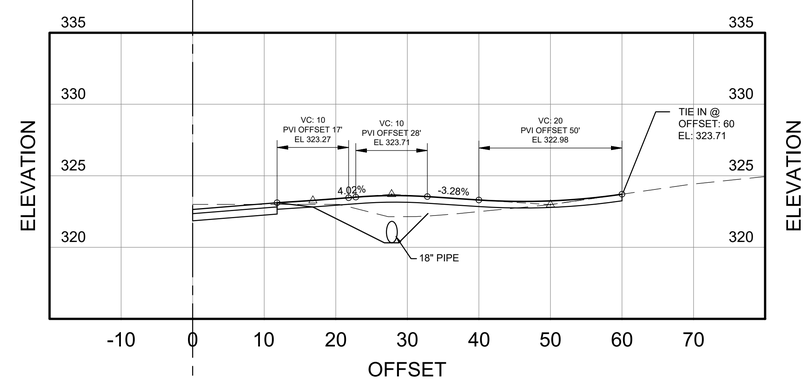
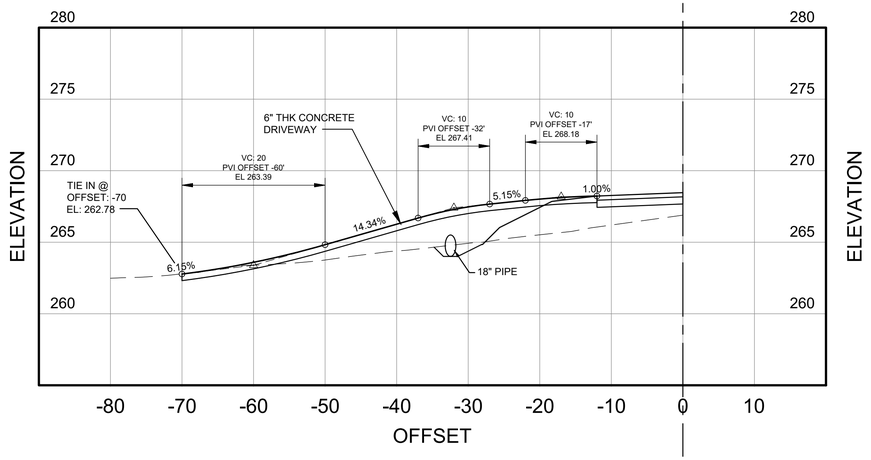
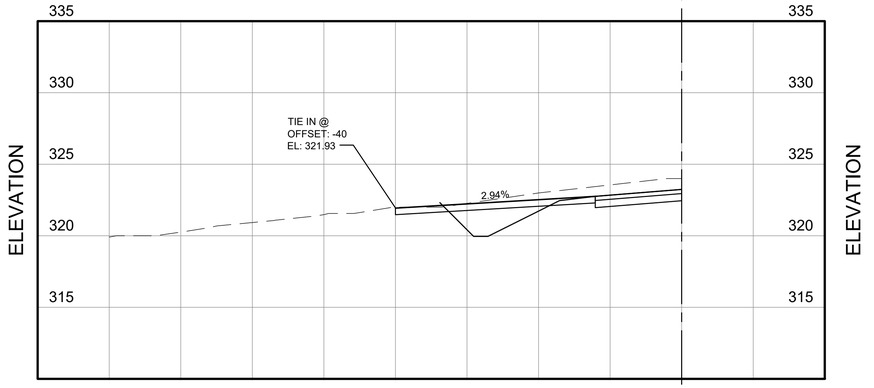


DRIVEWAY STA 47+91 RT (McNUTT ROAD)



DRIVEWAY STA 33+85 LT (McNUTT ROAD)



DRIVEWAY STA 46+88 LT (McNUTT ROAD)

NOTE:
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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

DRIVEWAY PROFILES

McNUTT ROAD
45+58 to 56+90

DRAWING NUMBER
17 - 0005

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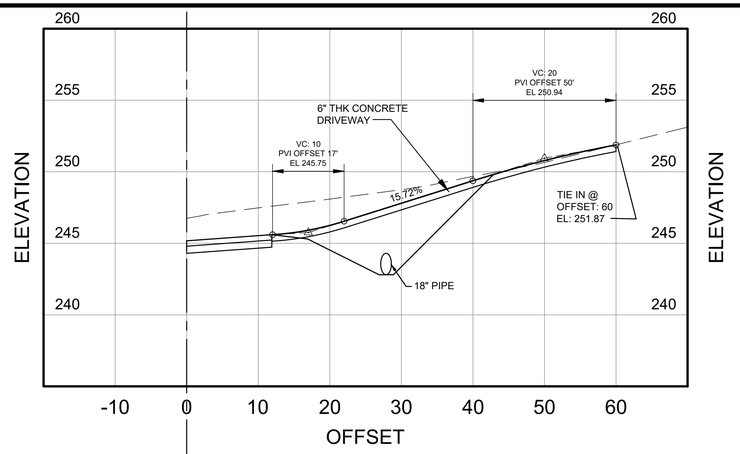
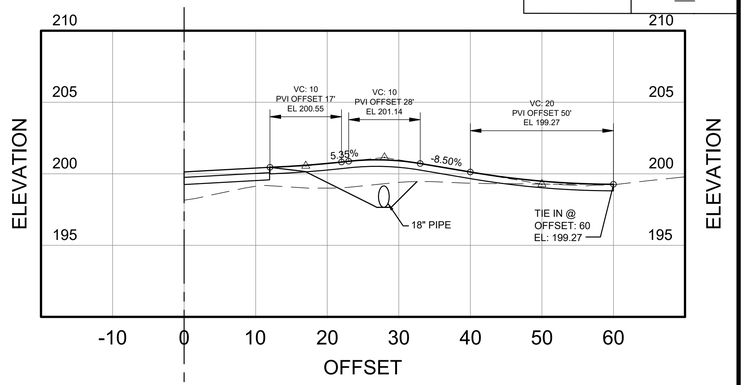


DRIVEWAY STA 73+18 RT (McNUTT ROAD)



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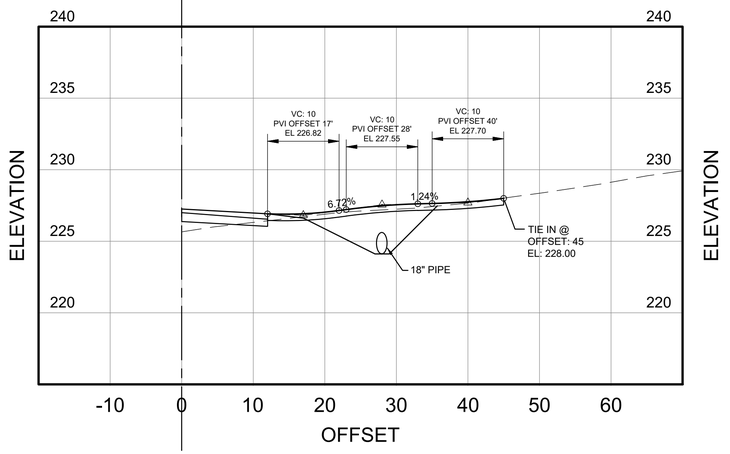
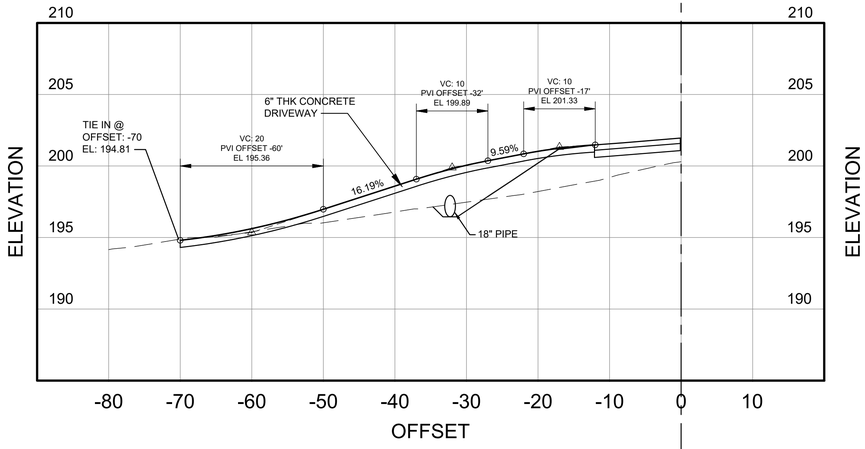


DRIVEWAY STA 66+98 RT (McNUTT ROAD)



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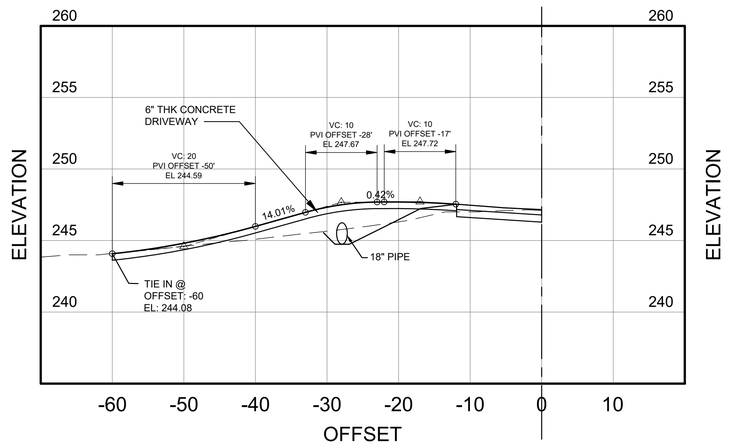

DRIVEWAY STA 56+90 LT (McNUTT ROAD)

NOTE:
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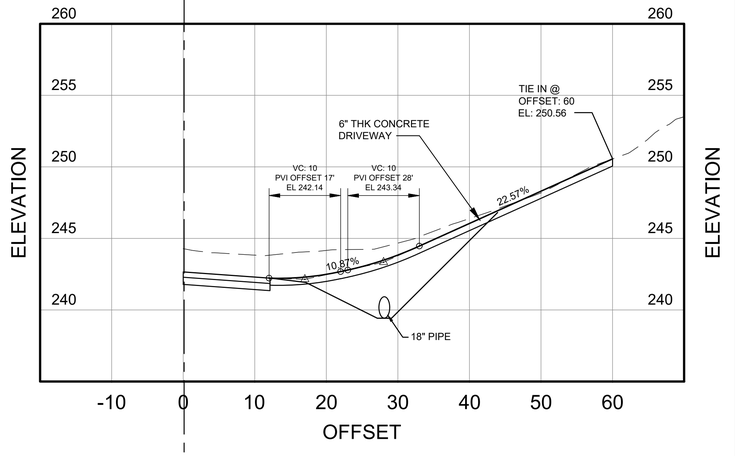

DRIVEWAY STA 77+11 RT (McNUTT ROAD)

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

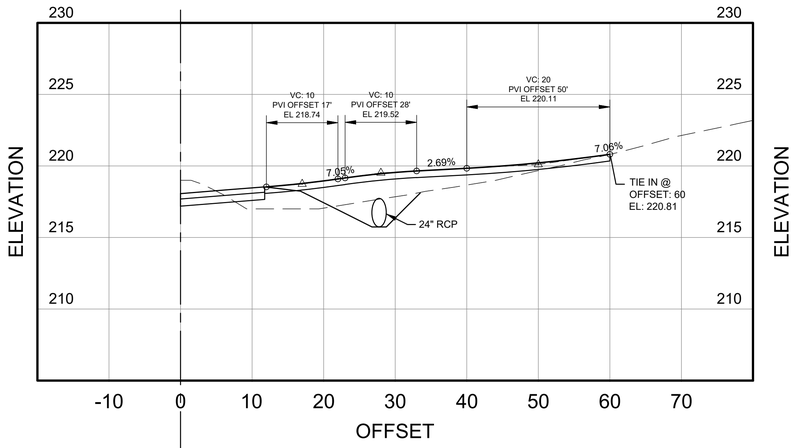
REVISION DATES

DRIVEWAY PROFILES

McNUTT ROAD
66+98 to 83+56

DRAWING NUMBER
17 - 0006

PROJECT: —



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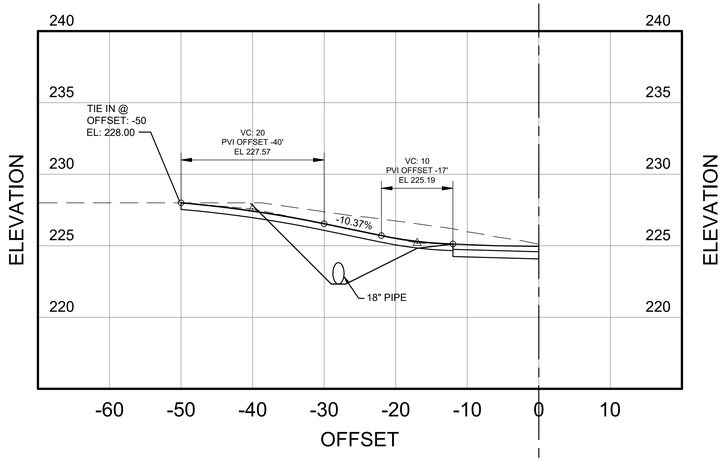

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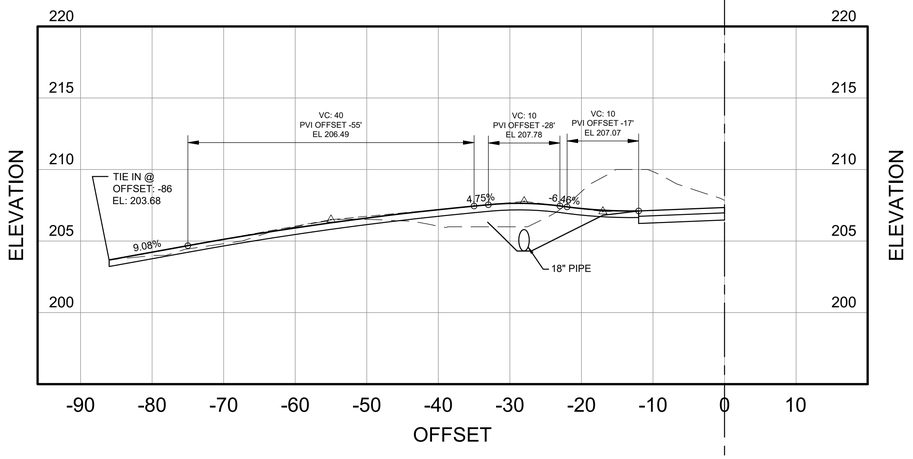

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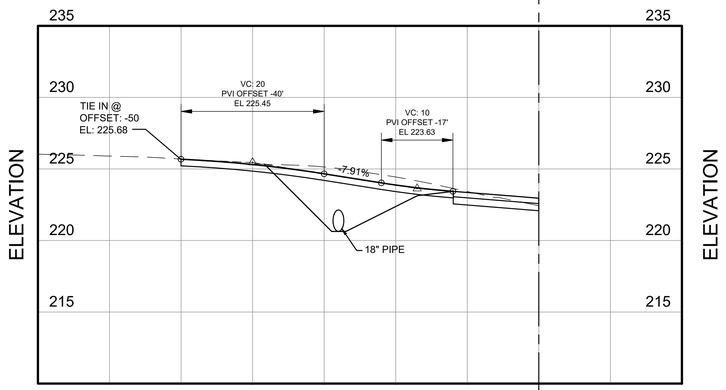

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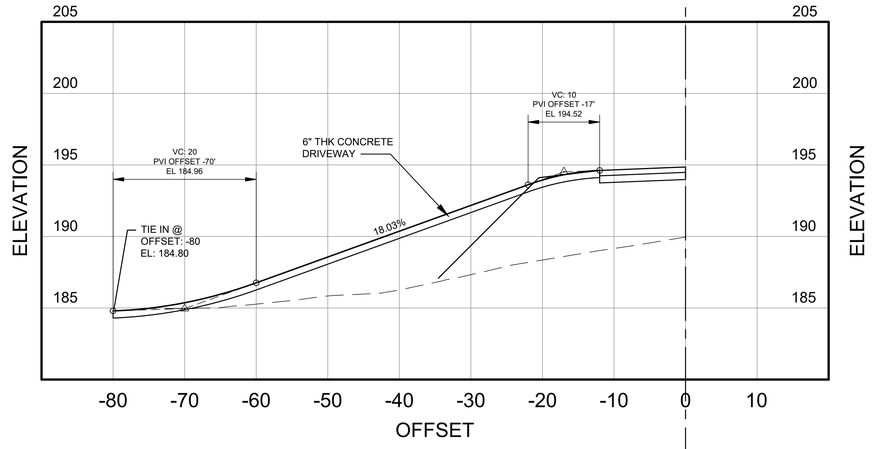

DRIVEWAY STA 83+56 LT (McNUTT ROAD)

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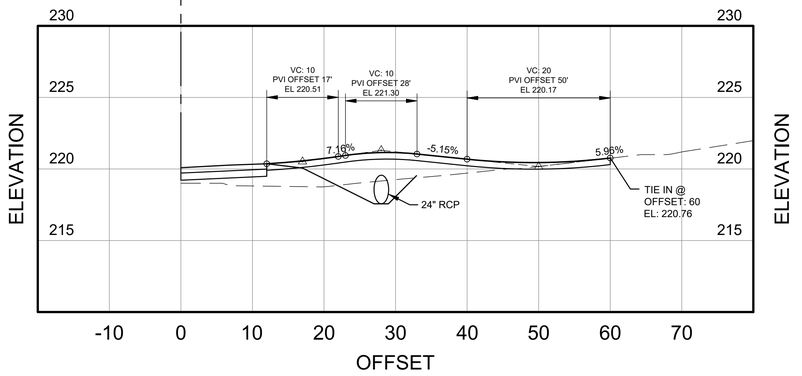

DRIVEWAY STA 94+16 RT (McNUTT ROAD)

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

DRIVEWAY PROFILES

McNUTT ROAD
90+60 to 99+44

DRAWING NUMBER
17 - 0007

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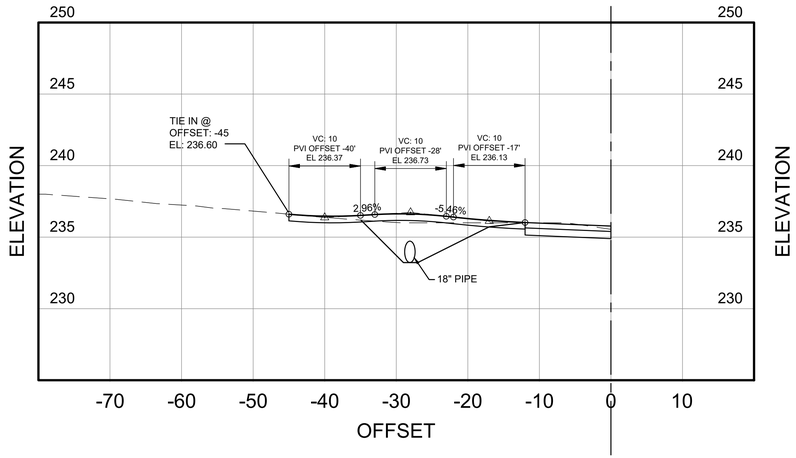
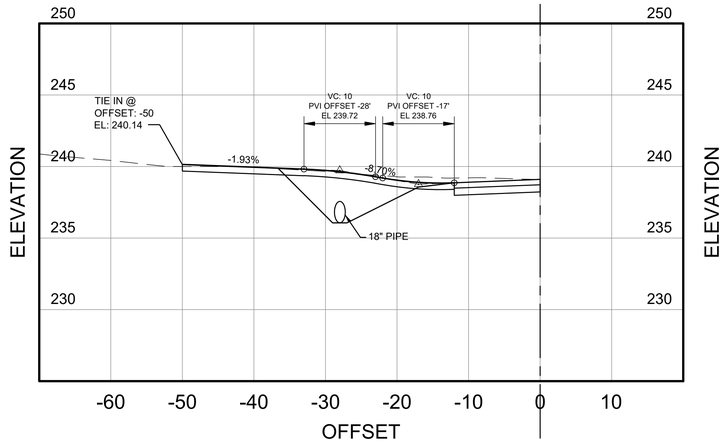
PROJECT: —



DRIVEWAY STA 101+00 LT (McNUTT ROAD)



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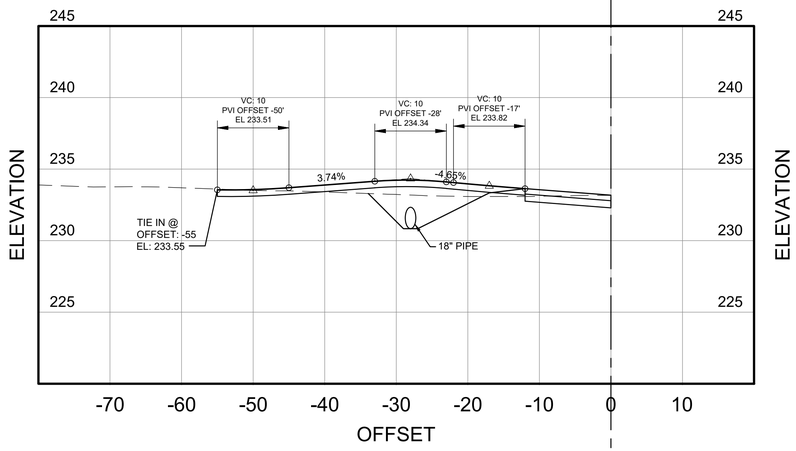

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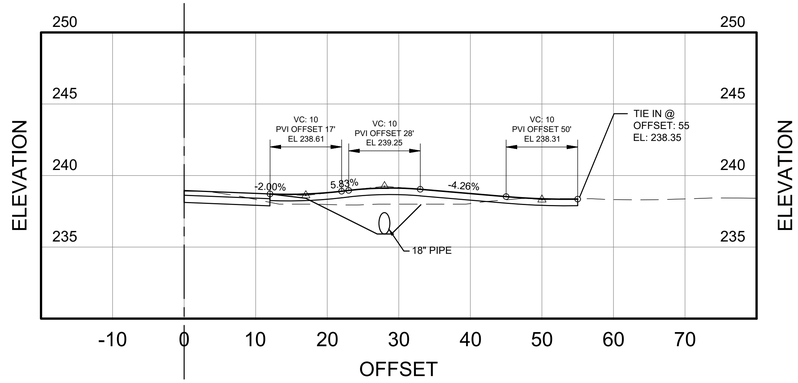
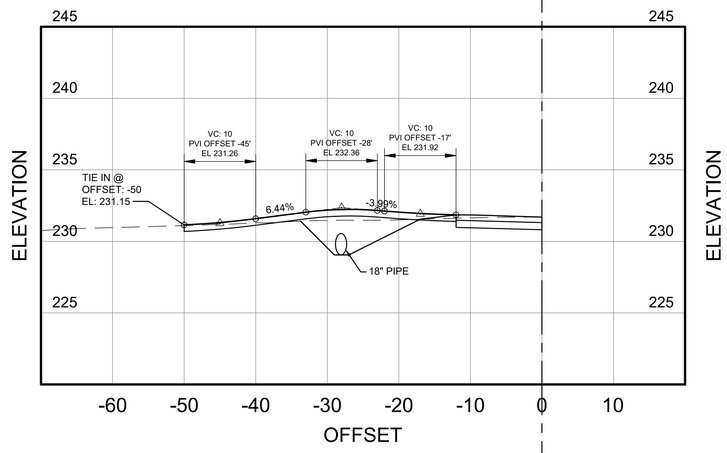


DRIVEWAY STA 102+18 RT (McNUTT ROAD)



DRIVEWAY STA 99+44 LT (McNUTT ROAD)

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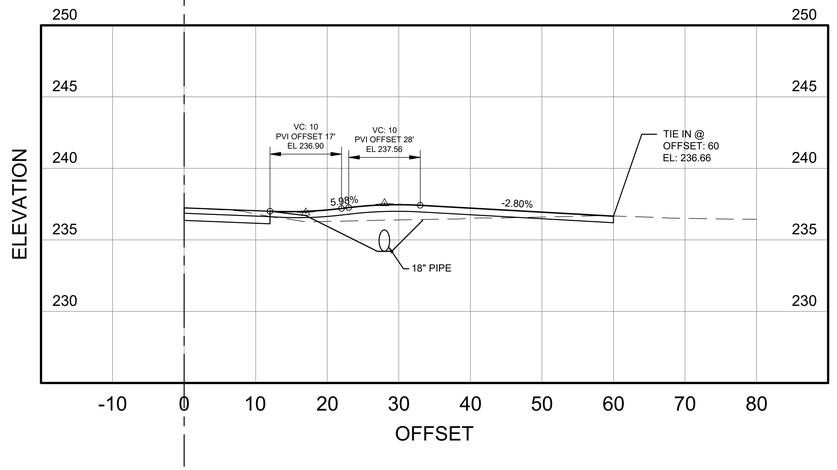

DRIVEWAY STA 101+55 RT (McNUTT ROAD)

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

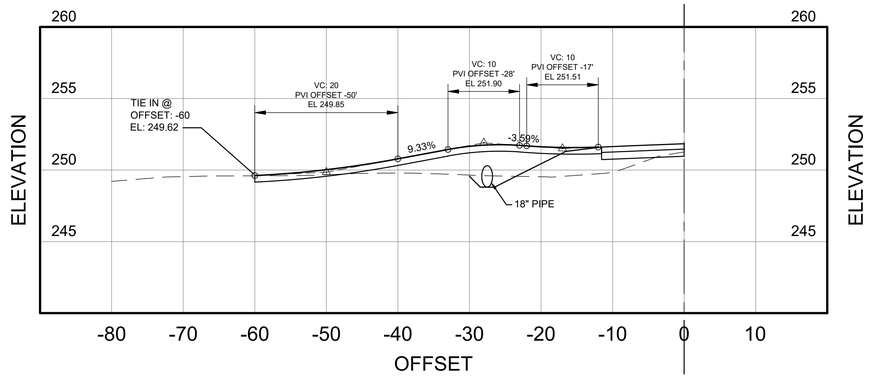
DRIVEWAY PROFILES

McNUTT ROAD
100+03 to 102+24

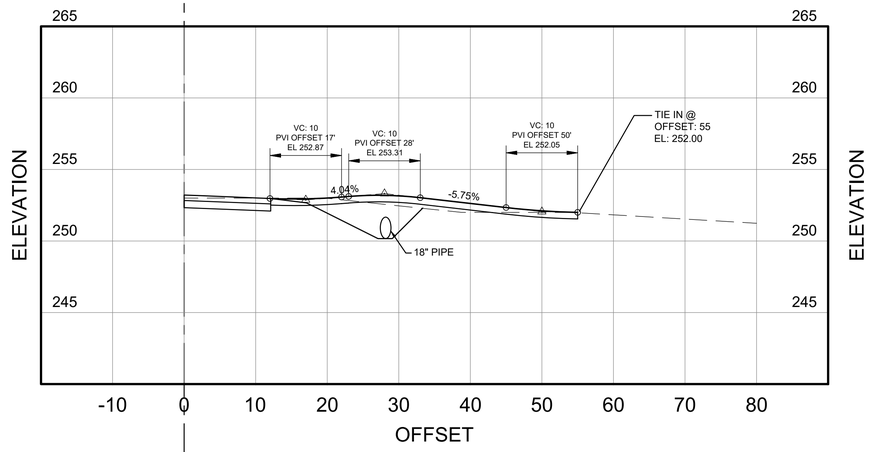
DRAWING NUMBER
17 - 0008

D:\Data\Projects\McNutt Road\Design\McNutt Road Driveway And Drainage Profiles (10-2-19).dwg, 5/28/2021 8:29:06 AM

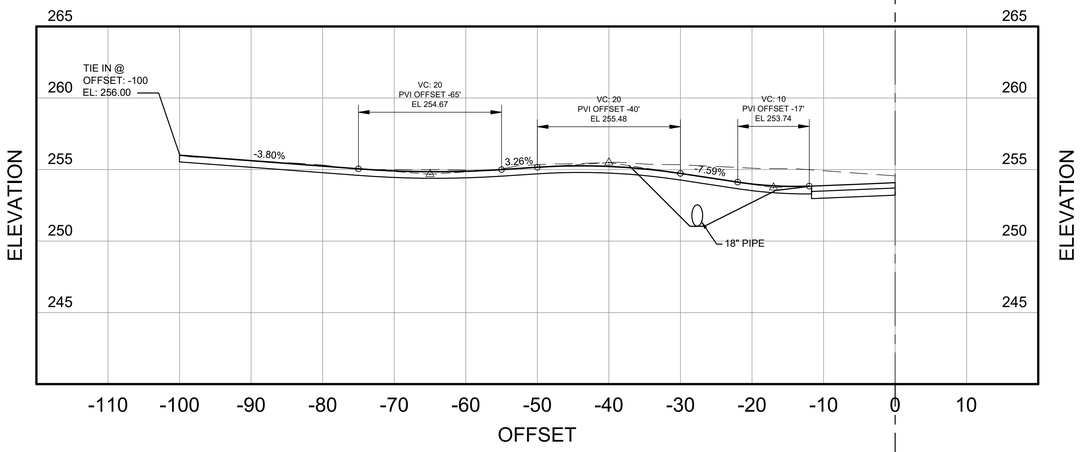
PROJECT: —



DRIVEWAY STA 1+68 LT (McNUTT WAY)



DRIVEWAY STA 1+13 RT (McNUTT WAY)



DRIVEWAY STA 0+67 LT (McNUTT WAY)

NOTE:
ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED

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HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'

MORELAND ALTOBELLI — AN ATLAS COMPANY —
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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

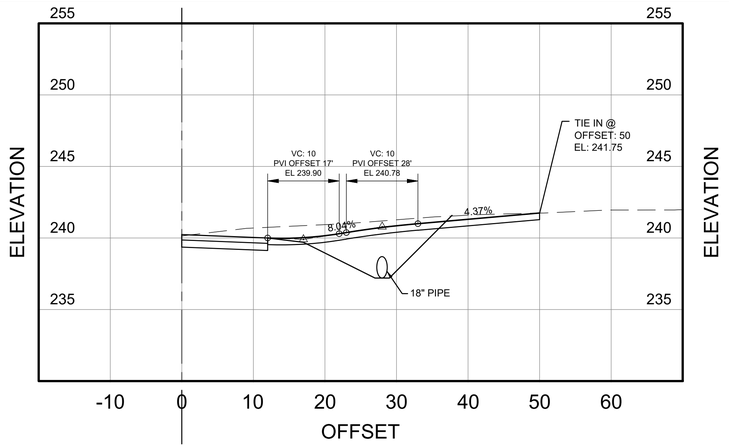
REVISION DATES

DRIVEWAY PROFILES

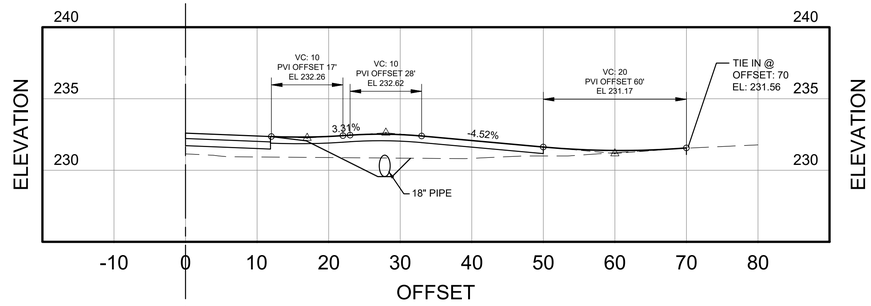
McNUTT WAY
0+67 to 1+68

DRAWING NUMBER
17 - 0009

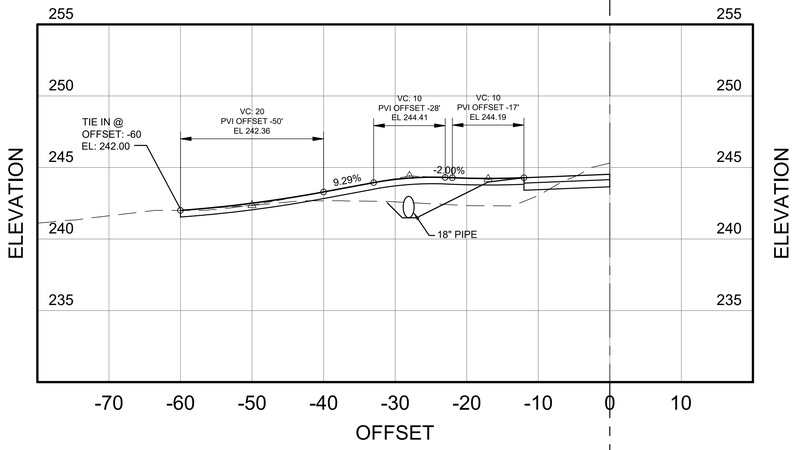
PROJECT: —



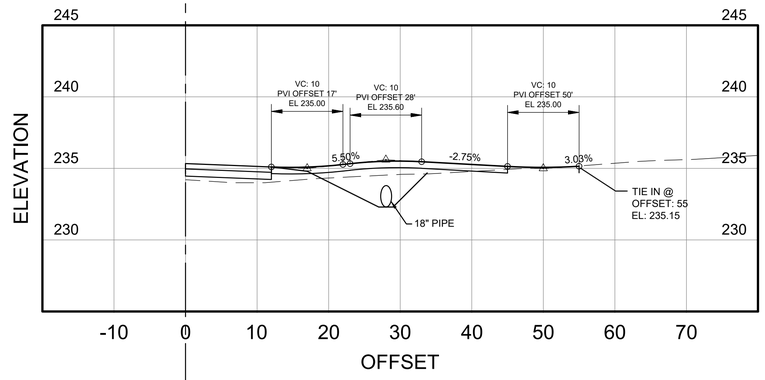
DRIVEWAY STA 4+86 RT (McNUTT WAY)



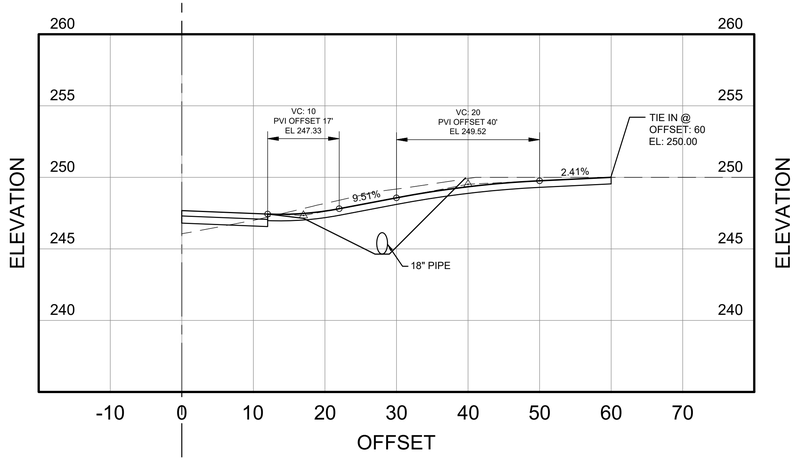
DRIVEWAY STA 7+61 RT (McNUTT WAY)



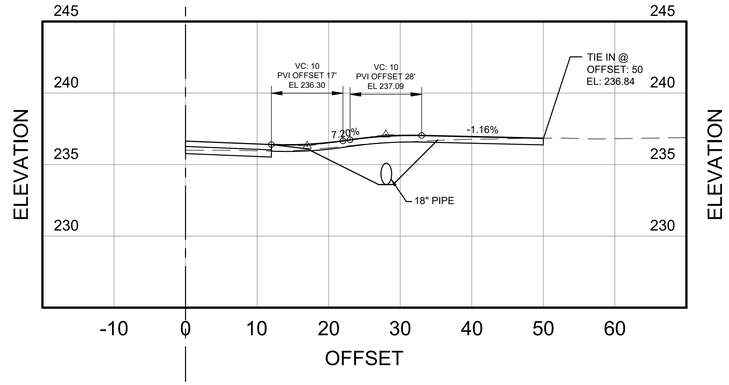
DRIVEWAY STA 3+92 LT (McNUTT WAY)



DRIVEWAY STA 6+36 RT (McNUTT WAY)



DRIVEWAY STA 3+13 RT (McNUTT WAY)



DRIVEWAY STA 5+86 RT (McNUTT WAY)

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

DRIVEWAY PROFILES

McNUTT WAY
3+13 to 7+61

DRAWING NUMBER
17 - 0010

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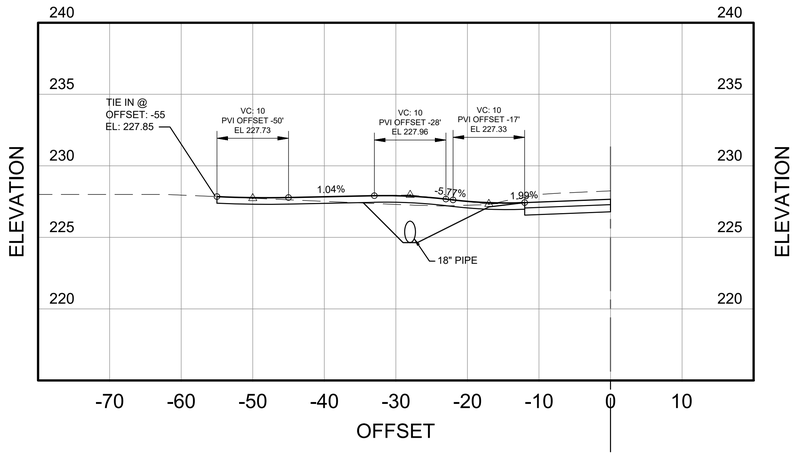
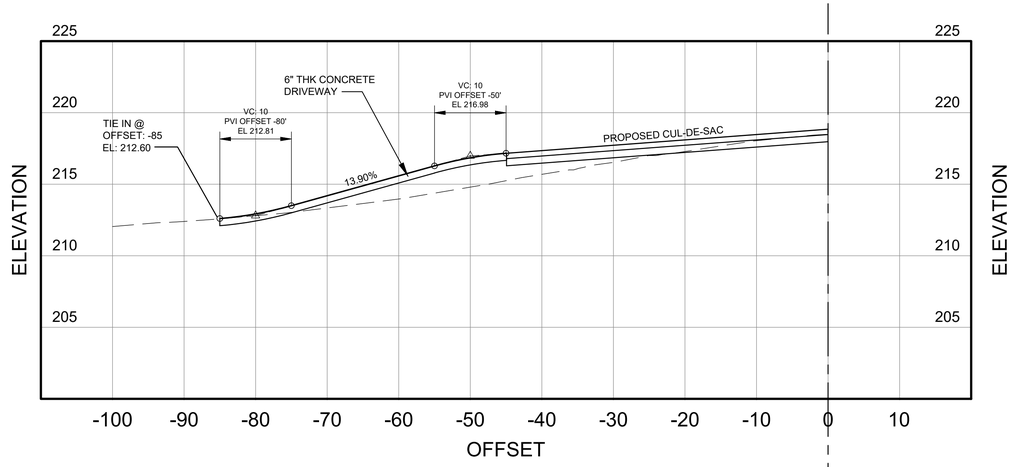
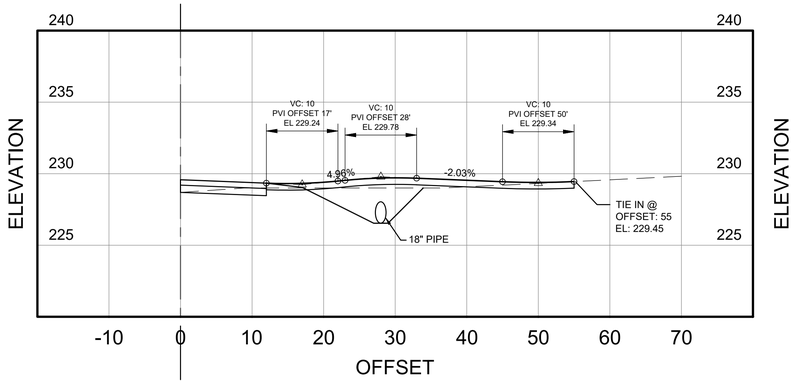


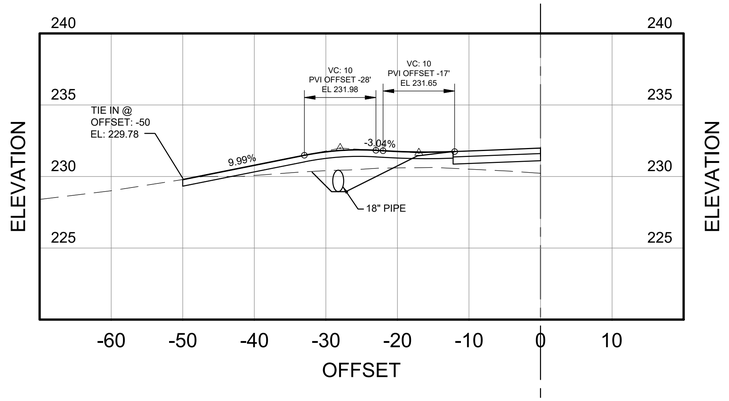
DRIVEWAY STA 10+91 LT (McNUTT WAY)



DRIVEWAY STA 13+91 LT (McNUTT WAY)

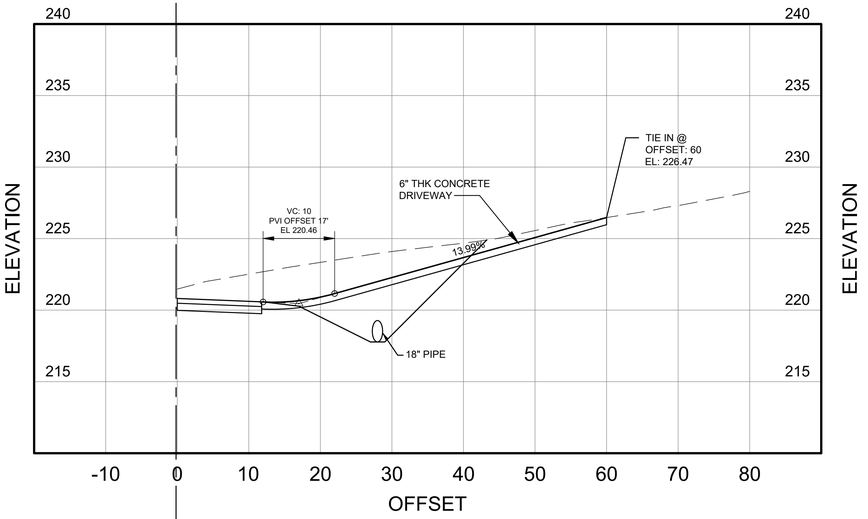


DRIVEWAY STA 9+20 RT (McNUTT WAY)



DRIVEWAY STA 7+90 LT (McNUTT WAY)

NOTE:
ALL DRIVEWAYS ARE ASPHALT
PAVING EXCEPT WHERE NOTED



DRIVEWAY STA 13+21 RT (McNUTT WAY)

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'

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DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

DRIVEWAY PROFILES

McNUTT WAY
7+90 to 13+91

DRAWING NUMBER
17 - 0011

PROJECT: ___

SOILS LEGEND		
MAP UNIT SYMBOL	MAP UNIT NAME	RATING
LmB	LUCY LOAMY SAND 1% TO 5% -	B
LmD	LUCY LOAMY SAND 8% TO 15% SLOPES	B
TwB	TROUP FIND SAND 1% TO 5% SLOPES	A
TwC	TROUP FIND SAND 5% TO 10% SLOPES	A
TwD	TROUP FIND SAND 10% TO 17% SLOPES	A

BASIN 1
AREA = 19.6 Ac.
CNw = 55
Tc = 59.7 MINUTES
BASIN OF DESIGN (SCS) CN
CNw = 55 (2 AC RESIDENTIAL LOTS)
9.5 AC (HYD SOILS GROUP B) - CN 65
10.1 AC (HYD SOILS GROUP A) - CN 46

TRAVEL PATH BASIN 2
SHALLOW CONC FLOW
L = 784 FT
S = 6%
UNPAVED
Tc = 3.31 MINUTES

BASIN 2
AREA = 16.7 Ac.
CNw = 40
Tc = 42.4 MINUTES
BASIN OF DESIGN (SCS) CN
CNw = 40 (WOODED - GOOD COVER)
4.2 AC (HYD SOILS GROUP B) - CN 55
6.4 AC (HYD SOILS GROUP A) - CN 25

TRAVEL PATH BASIN 2
SHEET FLOW
L = 222 FT
S = 1.5%
N = 0.35
Tc = 39.07 MINUTES

TRAVEL PATH BASIN 3
SHALLOW CONC FLOW
L = 504 FT
S = 6%
UNPAVED
Tc = 2.13 MINUTES

TRAVEL PATH BASIN 3
SHEET FLOW
L = 150 FT
S = 1.5%
N = 0.50
Tc = 37.98 MINUTES

BASIN 3
AREA = 14.6 Ac.
CNw = 37
Tc = 40.1 MINUTES
BASIN OF DESIGN (SCS) CN
CNw = 37 (WOODED - GOOD COVER)
1.5 AC (HYD SOILS GROUP B) - CN 55
13.1 AC (HYD SOILS GROUP A) - CN 35

TRAVEL PATH BASIN 4
SHEET FLOW
L = 150 FT
S = 1.0%
N = 0.80
Tc = 65.06 MINUTES

TRAVEL PATH BASIN 4
SHALLOW CONC FLOW
L = 445 FT
S = 3%
UNPAVED
Tc = 2.65 MINUTES

TRAVEL PATH BASIN 5
SHALLOW CONC FLOW
L = 388 FT
S = 5%
UNPAVED
Tc = 1.79 MINUTES

TRAVEL PATH BASIN 6
SHALLOW CONC FLOW
L = 733 FT
S = 10%
UNPAVED
Tc = 2.39 MINUTES

BASIN 6
AREA = 35.5 Ac.
CNw = 31
Tc = 53.0 MINUTES
BASIN OF DESIGN (SCS) CN
CNw = 31 (WOODED & 2 AC LOTS)
25.7 AC (HYD SOILS GROUP A) - CN 25 (WOODED - GOOD COVER)
9.8 AC (HYD SOILS GROUP A) - CN 46 (2 AC LOTS)

TRAVEL PATH BASIN 9
SHEET FLOW
L = 300 FT
S = 3.0%
N = 0.50
Tc = 50.12 MINUTES

BASIN 9
AREA = 11.6 Ac.
CNw = 31
Tc = 63.6 MINUTES
BASIN OF DESIGN (SCS) CN
CNw = 31 (WOODED & 1 AC LOTS)
9.12 AC (HYD SOILS GROUP A) - CN 25 (WOODED - GOOD COVER)
2.48 AC (HYD SOILS GROUP A) - CN 51 (1 AC LOTS)

TRAVEL PATH BASIN 1
SHEET FLOW
L = 300 FT
S = 1.3%
N = 0.35
Tc = 52.64 MINUTES

TRAVEL PATH BASIN 1
SHALLOW CONC FLOW
L = 805 FT
S = 1.4%
UNPAVED
Tc = 7.03 MINUTES

BASIN 4
AREA = 52.1 Ac.
CNw = 36
Tc = 68.9 MINUTES
BASIN OF DESIGN (SCS) CN
CNw = 36 (WOODED & 2 AC LOTS)
24.2 AC (HYD SOILS GROUP A) - CN 25 (WOODED - GOOD COVER)
27.9 AC (HYD SOILS GROUP A) - CN 46 (2 AC LOTS)

TRAVEL PATH BASIN 5
SHEET FLOW
L = 150 FT
S = 1.0%
N = 0.80
Tc = 65.06 MINUTES

BASIN 5
AREA = 22.5 Ac.
CNw = 25
Tc = 68.1 MINUTES
BASIN OF DESIGN (SCS) CN
CN = 25 (WOODED - GOOD COVER)
24.2 AC (HYD SOILS GROUP A) - CN 25

TRAVEL PATH BASIN 6
SHEET FLOW
L = 300 FT
S = 2.0%
N = 0.41
Tc = 50.29 MINUTES

TRAVEL PATH BASIN 7
SHEET FLOW
L = 300 FT
S = 1.0%
N = 0.41
Tc = 66.36 MINUTES

TRAVEL PATH BASIN 7
SHALLOW CONC FLOW
L = 2050 FT
S = 3%
UNPAVED
Tc = 12.23 MINUTES

BASIN 7
AREA = 17.4 Ac.
CNw = 51
Tc = 78.6 MINUTES
BASIN OF DESIGN (SCS) CN
CN = 51 (1 AC RESIDENTIAL LOTS)
17.4 AC (HYD SOILS GROUP A) - CN 51

TRAVEL PATH BASIN 9
SHALLOW CONC FLOW
L = 1305 FT
S = 1.0%
UNPAVED
Tc = 13.48 MINUTES

BASIN 8
AREA = 10.5 Ac.
CNw = 51
Tc = 39.8 MINUTES
BASIN OF DESIGN (SCS) CN
CN = 51 (1 AC RESIDENTIAL LOTS)
10.5 AC (HYD SOILS GROUP A) - CN 51

TRAVEL PATH BASIN 8
SHEET FLOW
L = 300 FT
S = 2.0%
N = 0.26
Tc = 34.93 MINUTES

TRAVEL PATH BASIN 8
SHALLOW CONC FLOW
L = 788 FT
S = 2.8%
UNPAVED
Tc = 4.86 MINUTES

PROPOSED STORM PIPE "A" 30" RCP
PROPOSED STORM PIPE "B" 18" RCP
PROPOSED STORM PIPE "C" 18" RCP
PROPOSED STORM PIPE "D" 24" RCP
PROPOSED STORM PIPE "E" 18" RCP
PROPOSED STORM PIPE "F" 36" RCP
PROPOSED STORM PIPE "G" 18" RCP
McNUTT ROAD
McNUTT WAY

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GRAPHIC SCALE
250 0 125 250 500 1000
(IN FEET)
1 inch = 250 ft.

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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

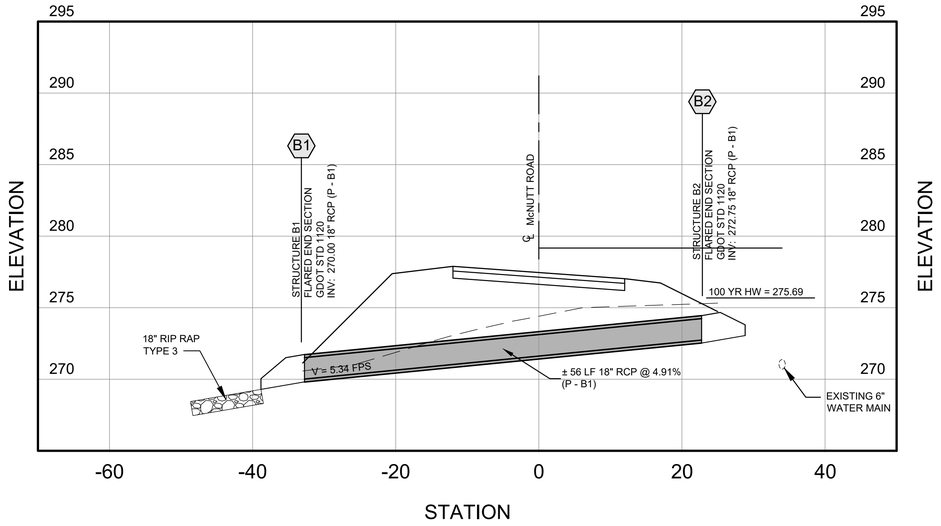
REVISION DATES

DRAINAGE AREA MAP

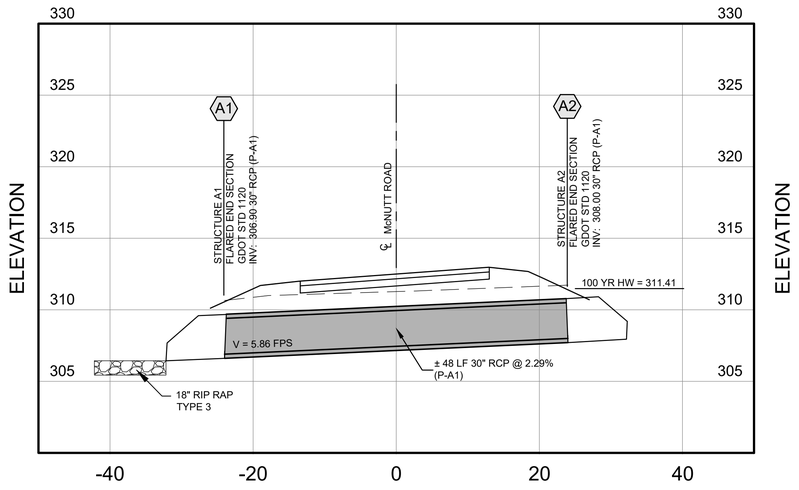
McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER
21 - 0001

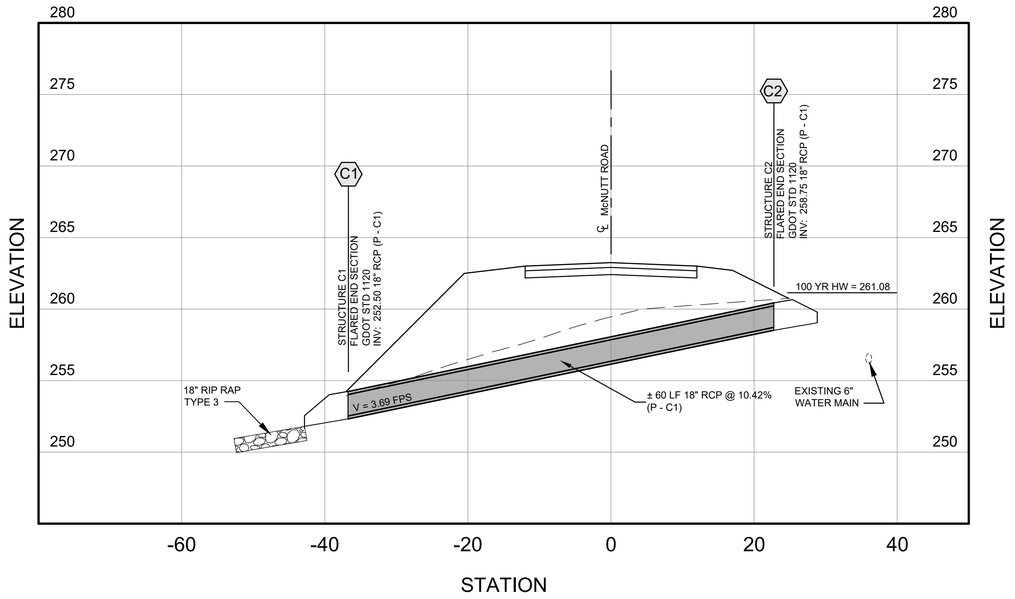
PROJECT: —



STORM PIPE PROFILE - STRUCTURE B1 - B2
STA 28+50 (McNUTT ROAD)
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 20'



STORM PIPE PROFILE - STRUCTURE A1 - A2
STATION 7+92 (McNUTT ROAD)
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 20'



STORM PIPE PROFILE - STRUCTURE C1 - C2
STA 36+00 (McNUTT ROAD)
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 20'

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

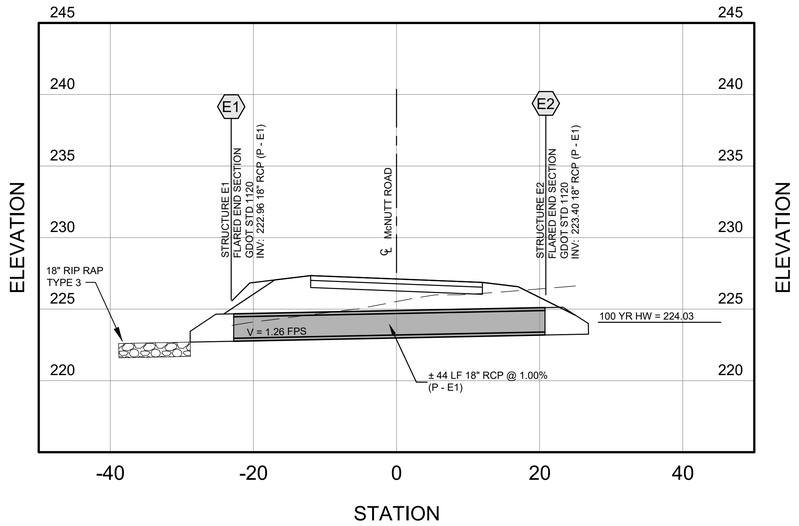
REVISION DATES

DRAINAGE PROFILES

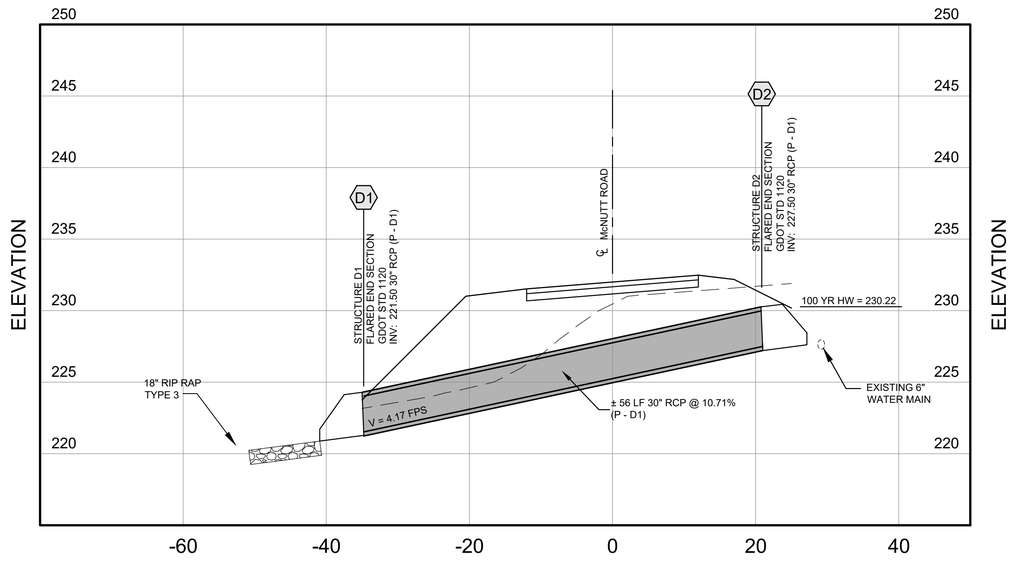
McNUTT ROAD
7+92 to 36+00

DRAWING NUMBER
22 - 0001

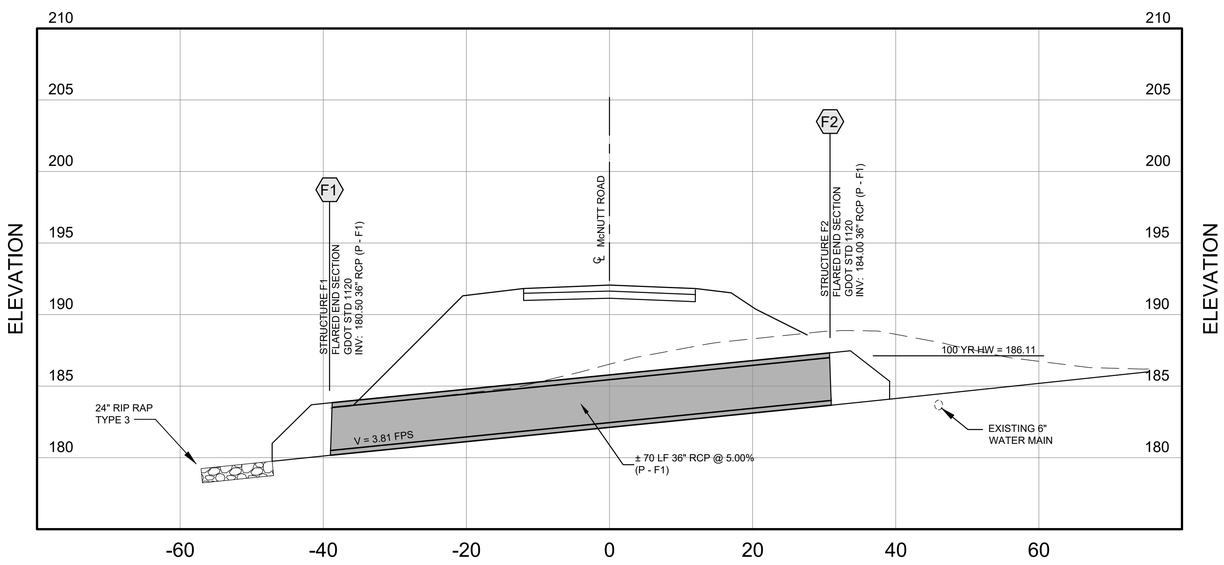
PROJECT: —



STORM PIPE PROFILE - STRUCTURE E1 - E2
STA 66+50 (McNUTT ROAD)
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 20'



STORM PIPE PROFILE - STRUCTURE D1 - D2
STA 60+50 (McNUTT ROAD)
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 20'



STORM PIPE PROFILE - STRUCTURE F1 - F2
STA 84+59 (McNUTT ROAD)
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 20'

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VERTICAL SCALE: 1" = 5'

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

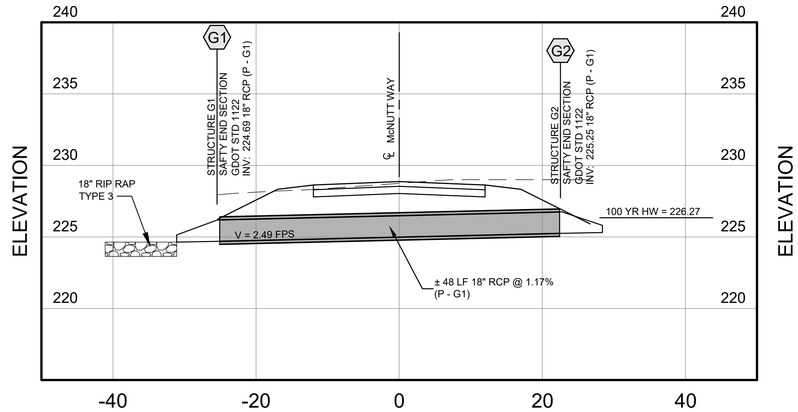
REVISION DATES

DRAINAGE PROFILES

McNUTT ROAD
60+50 to 85+00

DRAWING NUMBER
22 - 0002

PROJECT: —



STORM PIPE PROFILE - STRUCTURE G1 - G2
STA 10+12 (McNUTT WAY)
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 20'

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VERTICAL SCALE: 1" = 5'

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

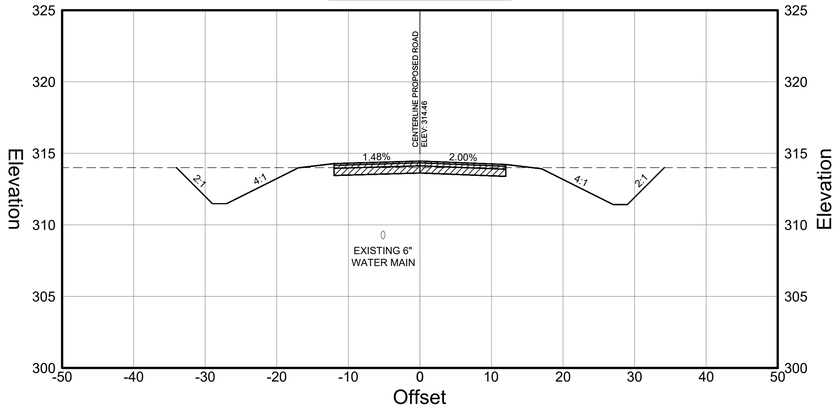
DRAINAGE PROFILES

McNUTT WAY
10+12

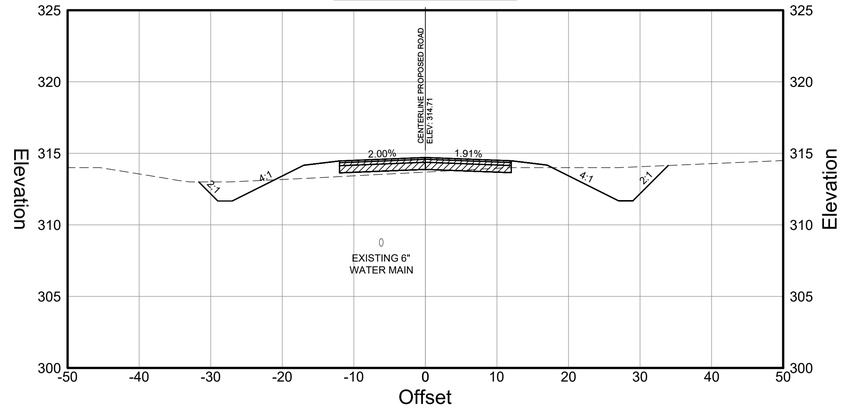
DRAWING NUMBER
22 - 0003

PROJECT: —

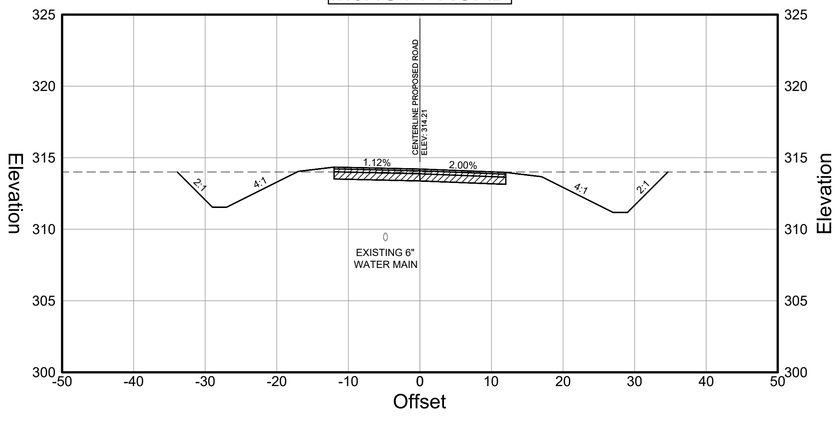
1+50.00 McNUTT ROAD



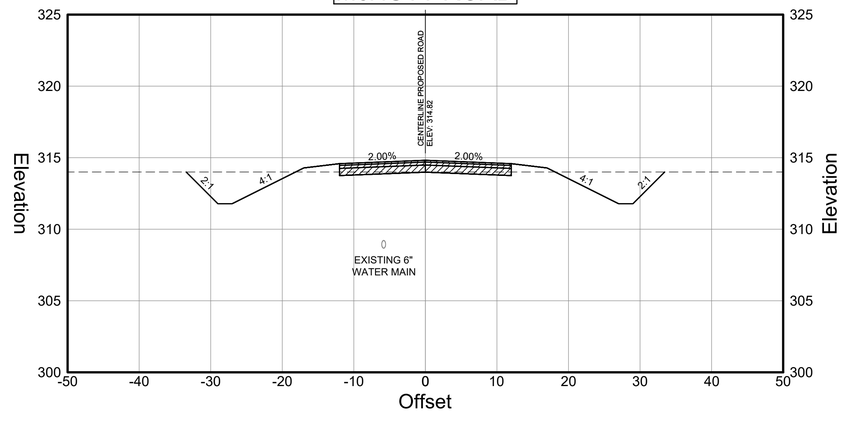
3+00.00 McNUTT ROAD



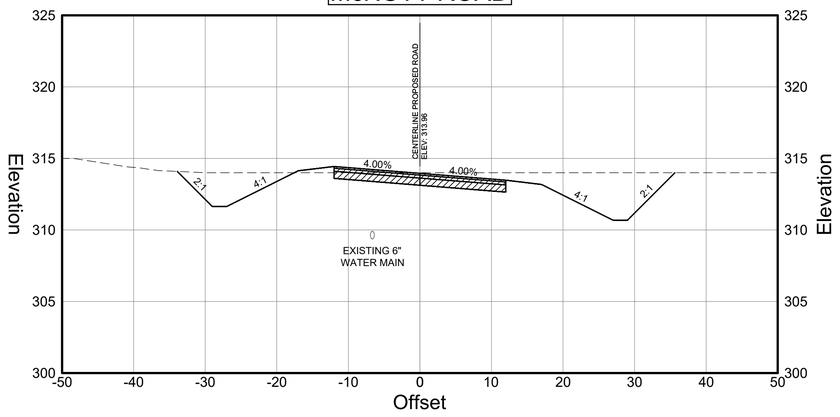
1+00.00 McNUTT ROAD



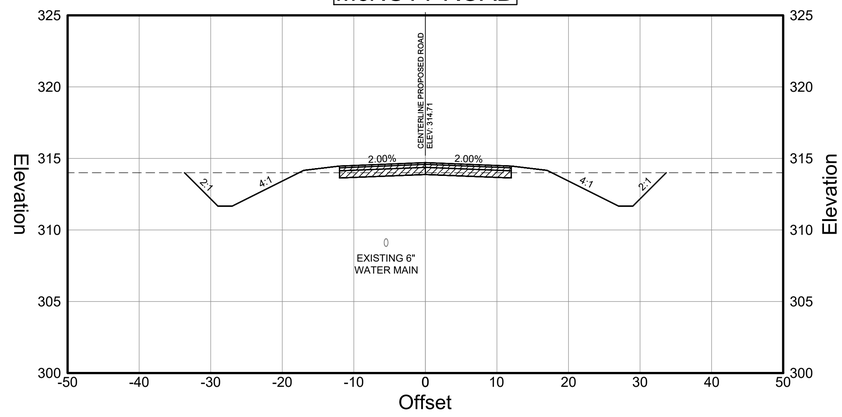
2+50.00 McNUTT ROAD



0+50.00 McNUTT ROAD



2+00.00 McNUTT ROAD



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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

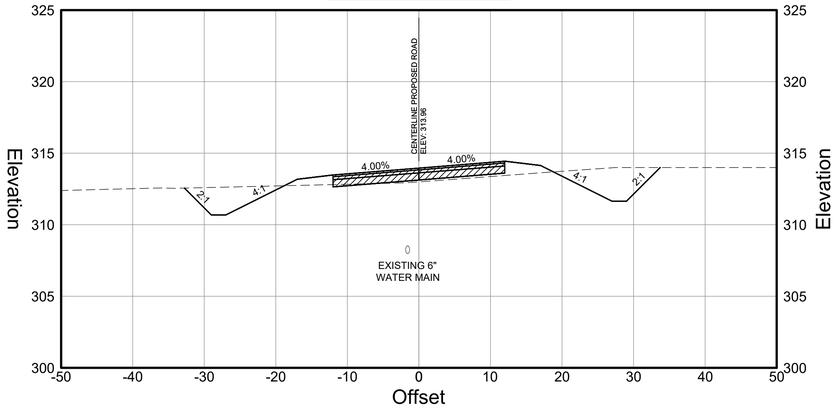
McNUTT ROAD
0+50 to 3+00

DRAWING NUMBER

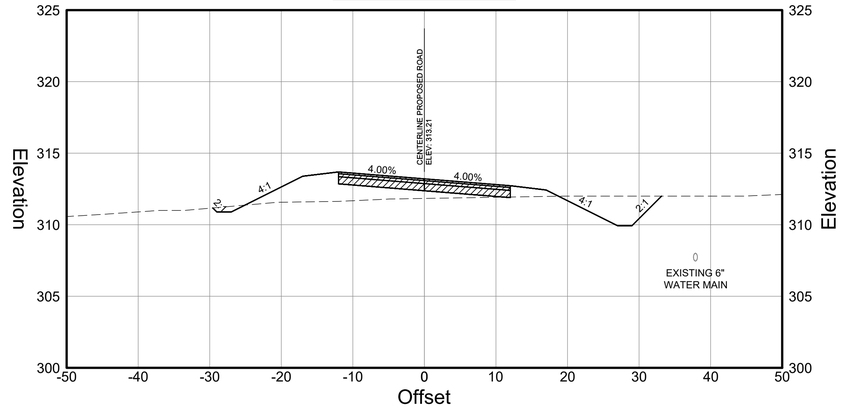
23 - 0001

PROJECT: —

4+50.00 McNUTT ROAD



6+00.00 McNUTT ROAD



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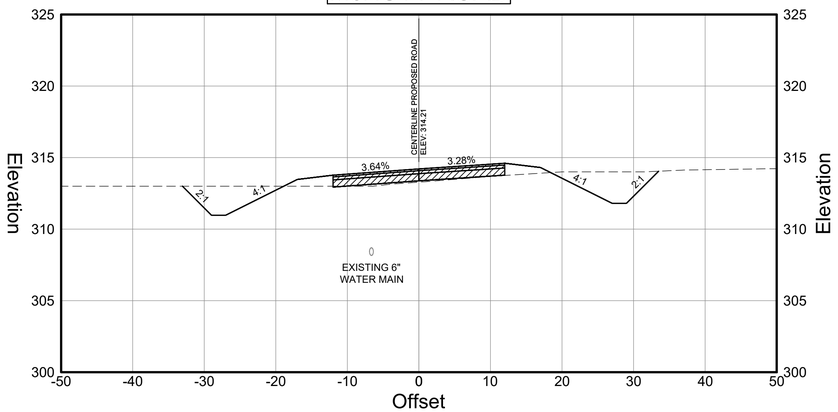
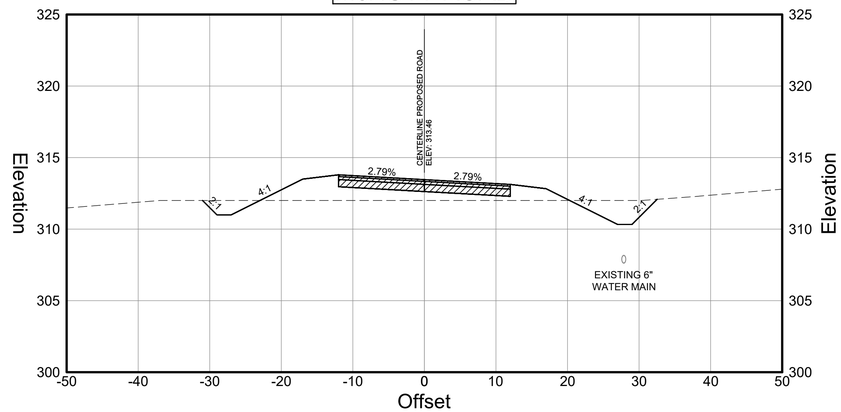
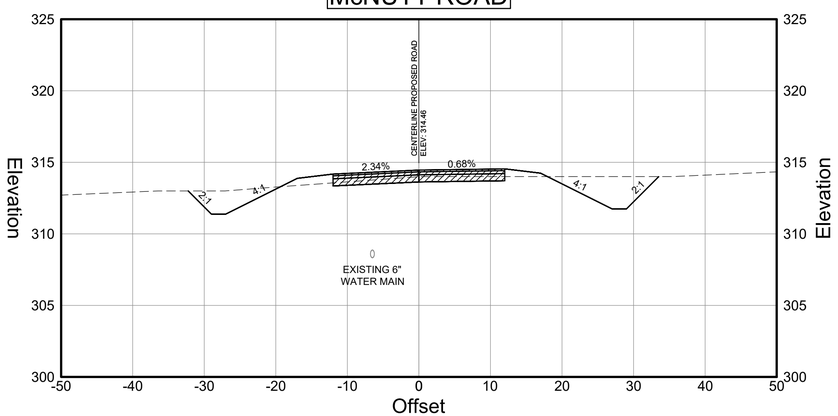


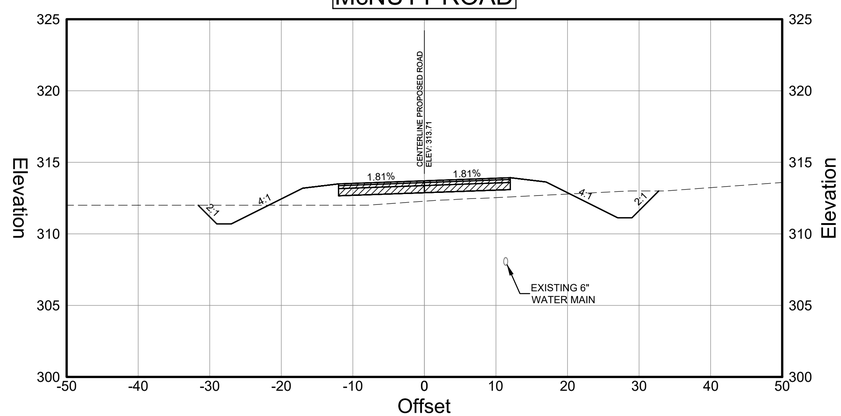
5+50.00 McNUTT ROAD



3+50.00 McNUTT ROAD



5+00.00 McNUTT ROAD



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HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

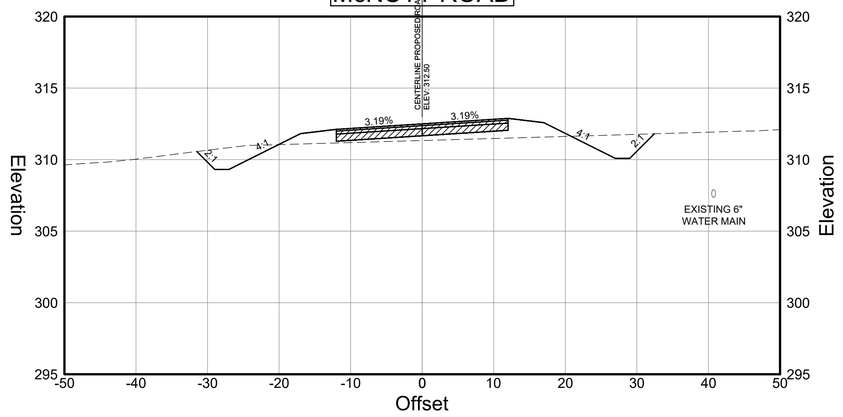
McNUTT ROAD
3+50 to 6+00

DRAWING NUMBER
23 - 0002

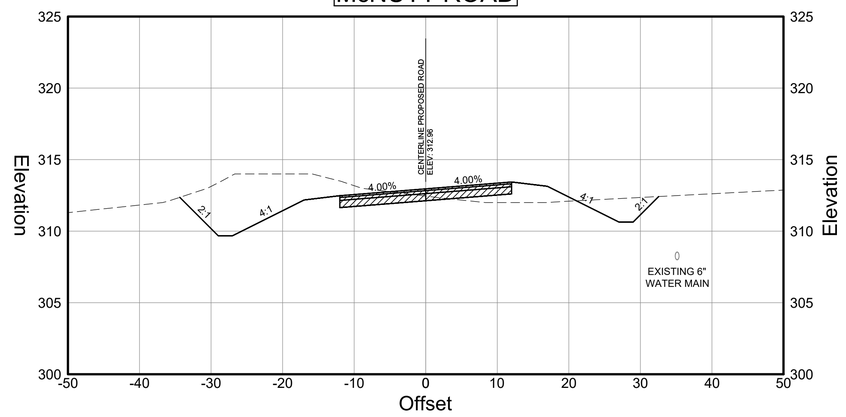
D:\Data\Projects\McNutt Road\Design\McNutt Road Cross Sections (10-2-19).dwg, 5/27/2021 2:46:58 PM

PROJECT: —

7+50.00 McNUTT ROAD



9+00.00 McNUTT ROAD



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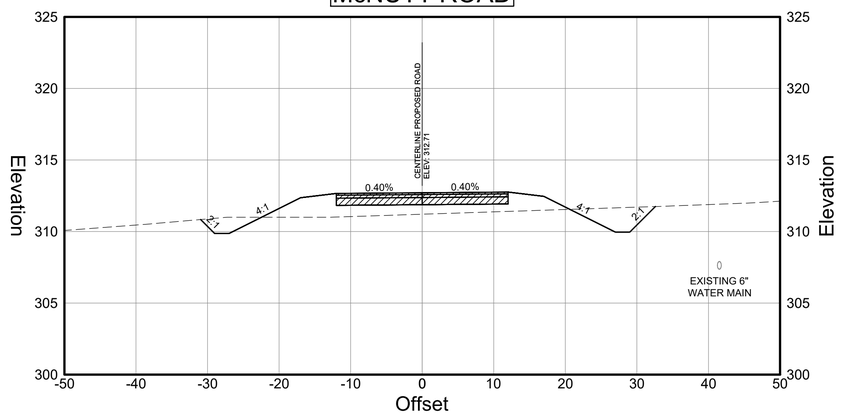
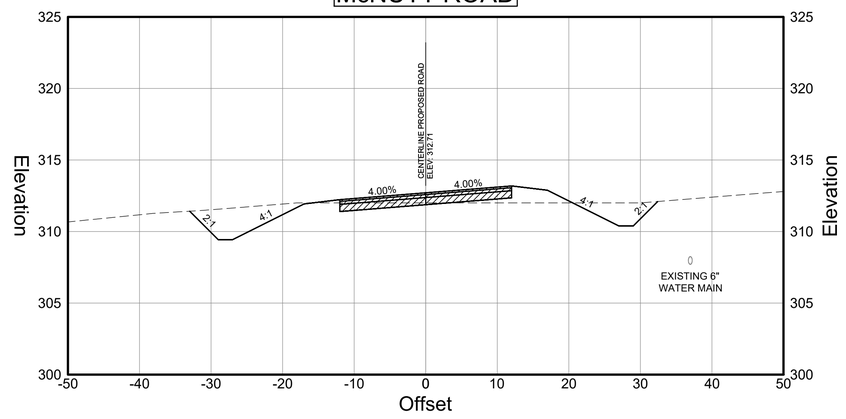
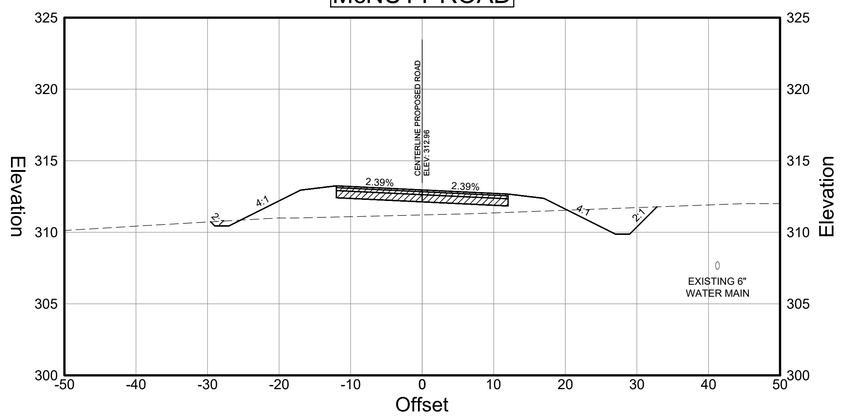


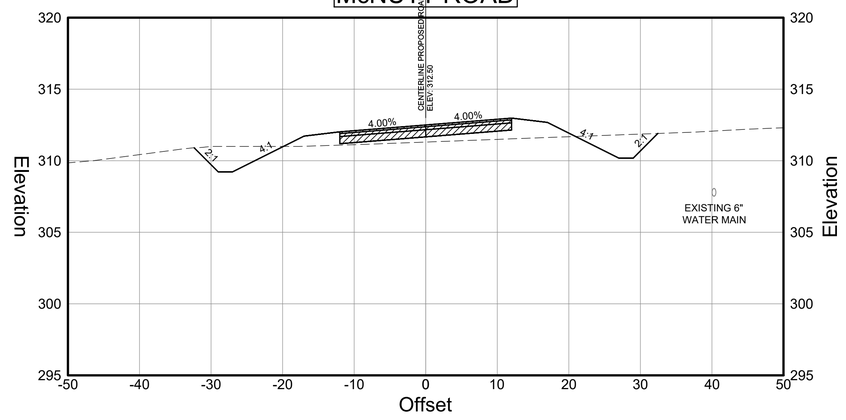
8+50.00 McNUTT ROAD



6+50.00 McNUTT ROAD



8+00.00 McNUTT ROAD



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Cumming, Georgia 30040
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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

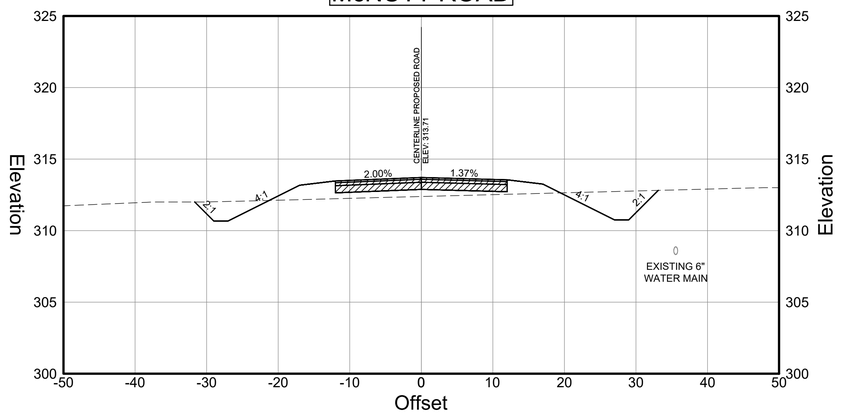
CROSS SECTIONS

McNutt Road
6+50 to 9+00

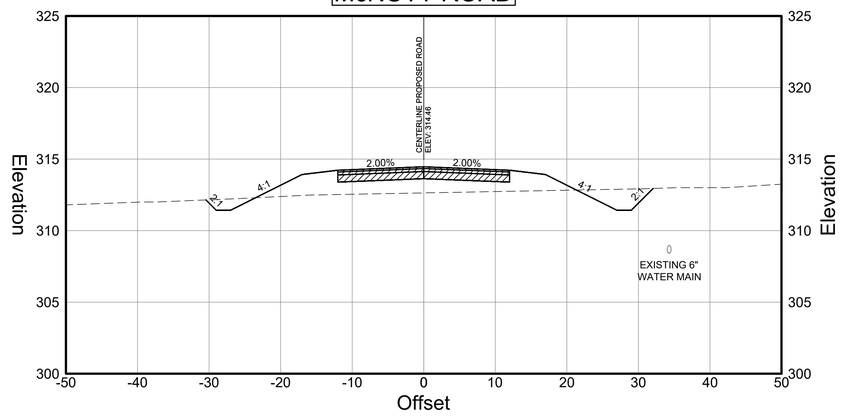
DRAWING NUMBER
23 - 0003

PROJECT: —

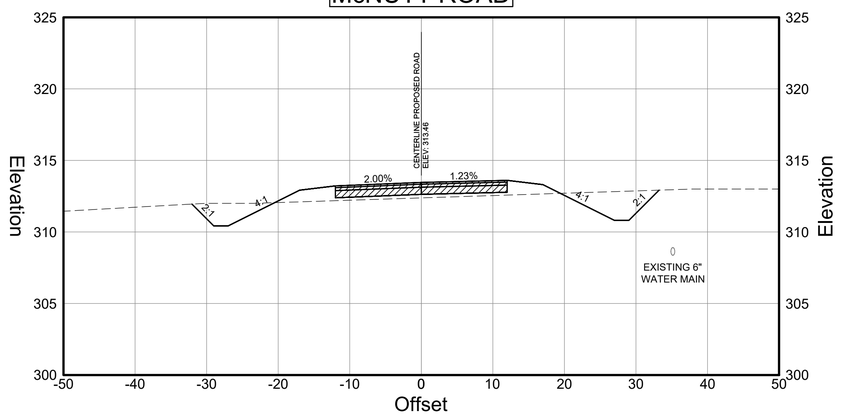
10+50.00 McNUTT ROAD



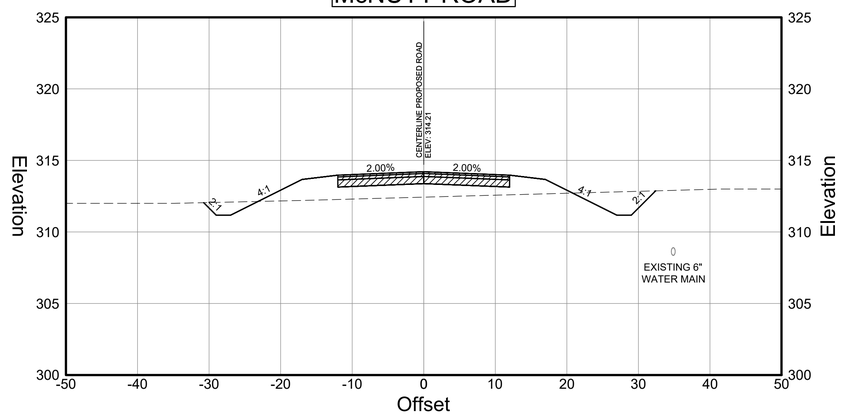
12+00.00 McNUTT ROAD



10+00.00 McNUTT ROAD



11+50.00 McNUTT ROAD



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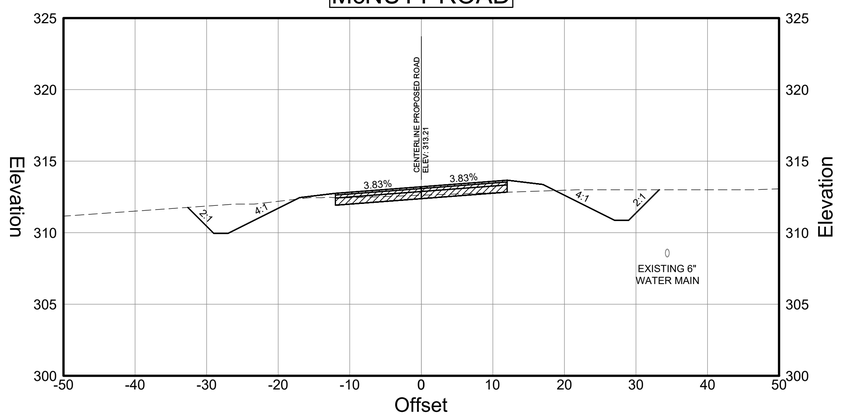

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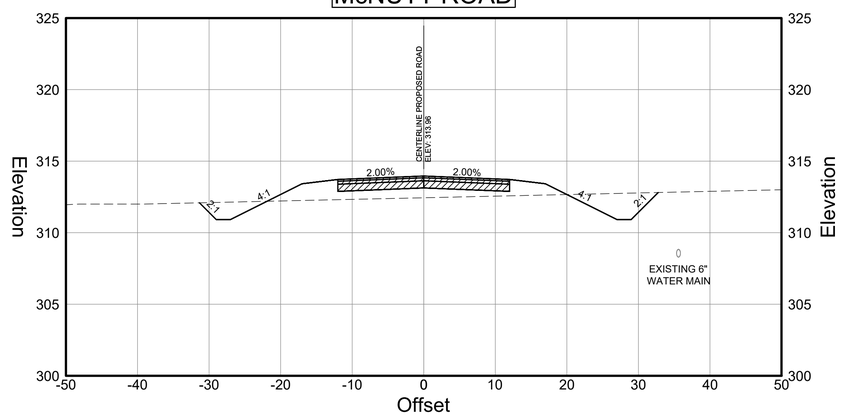

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Suite 1401
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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta Georgia

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

McNutt Road
9+50 to 12+00

DRAWING NUMBER

23 - 0004

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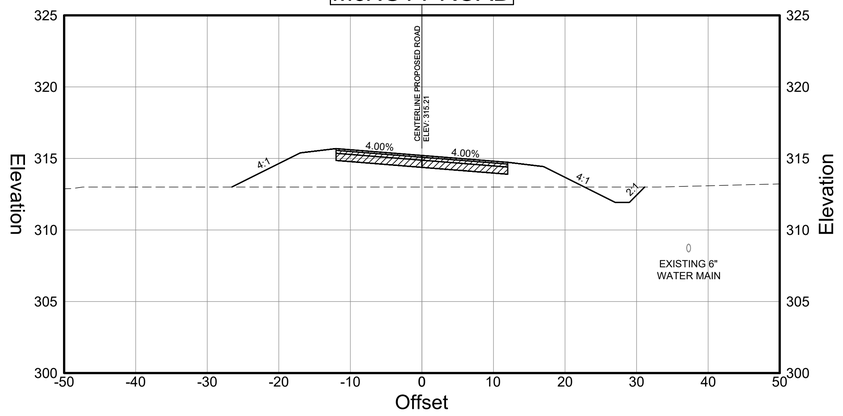
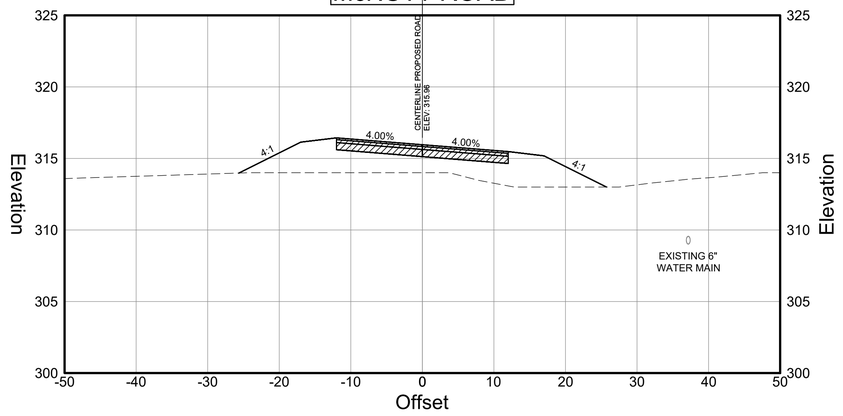
PROJECT: —

13+50.00 McNUTT ROAD



15+00.00 McNUTT ROAD



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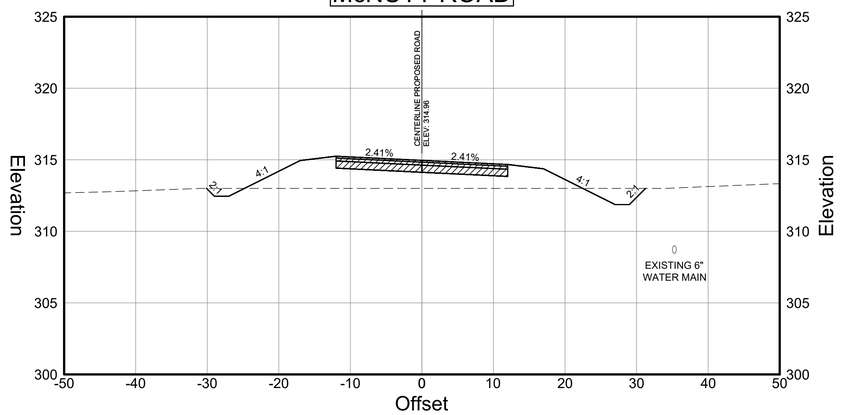
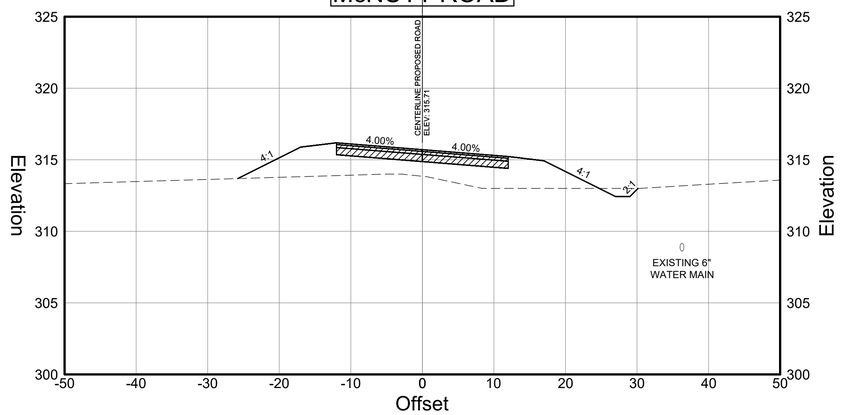


14+50.00 McNUTT ROAD



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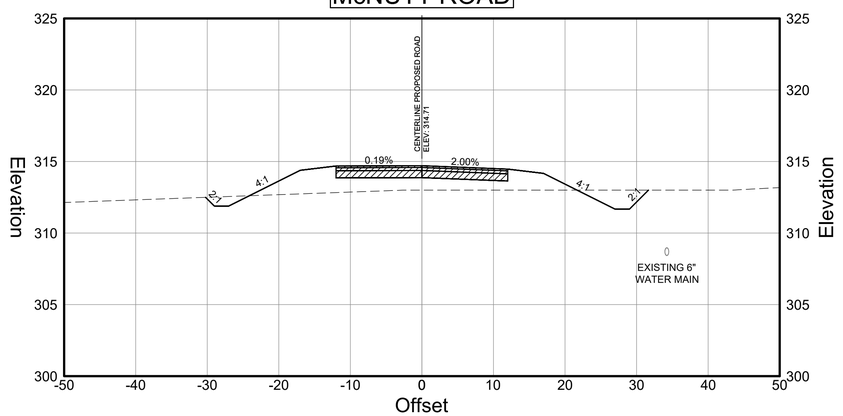
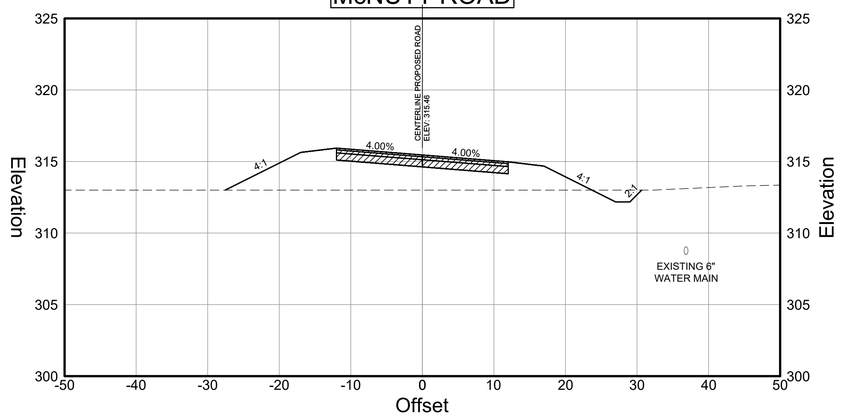


14+00.00 McNUTT ROAD



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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta Georgia

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

McNutt Road
12+50 to 15+00

DRAWING NUMBER

23 - 0005

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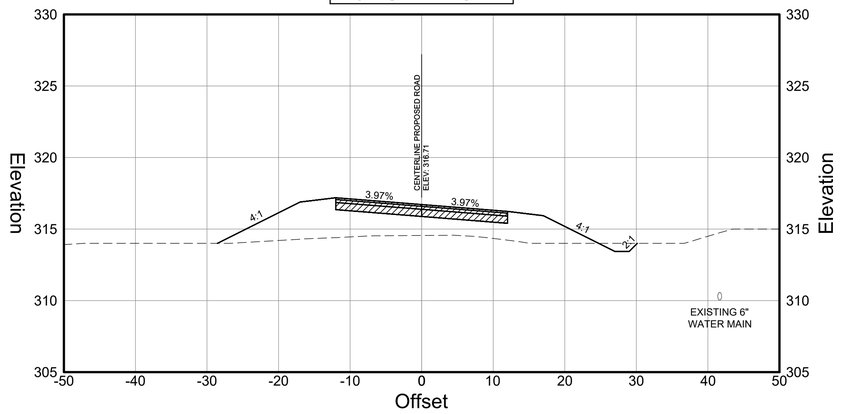
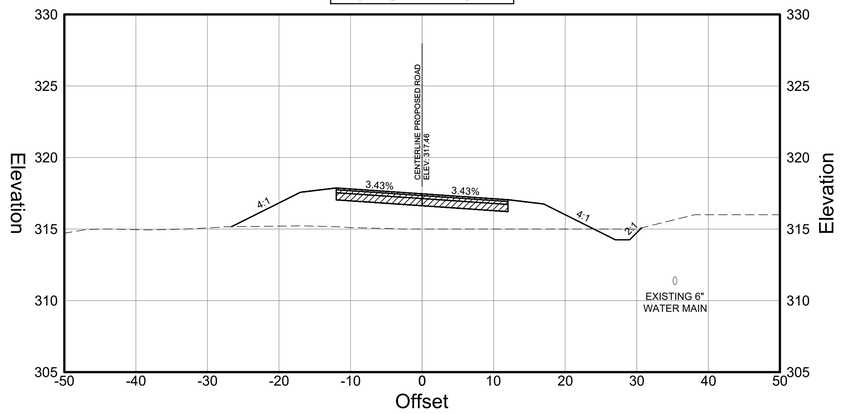
PROJECT: —

16+50.00 McNUTT ROAD



18+00.00 McNUTT ROAD



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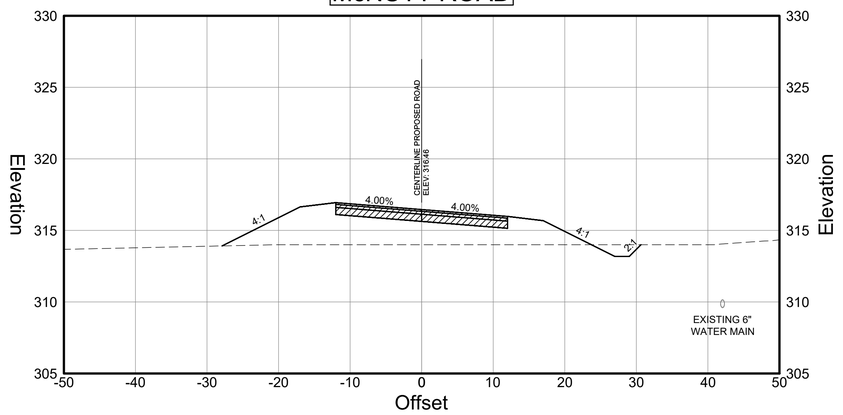

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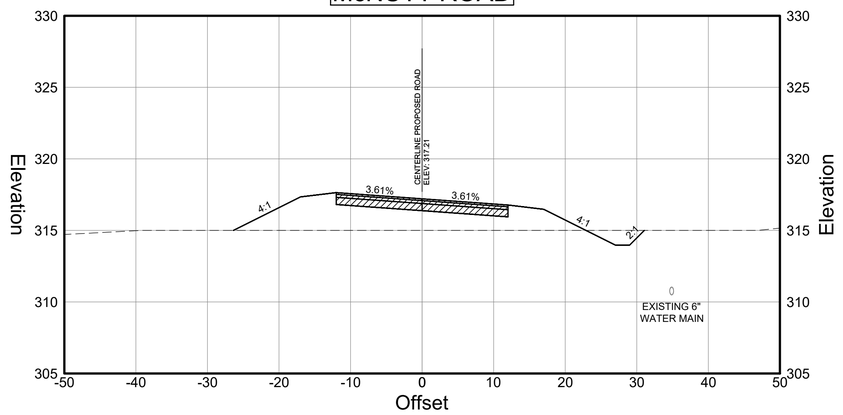
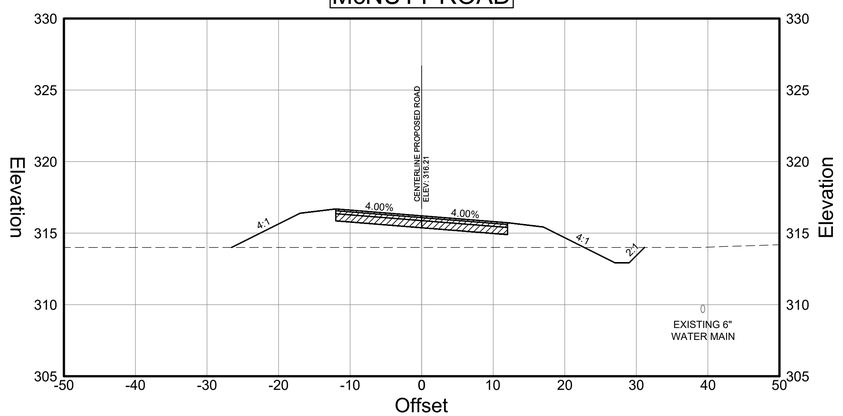


15+50.00 McNUTT ROAD



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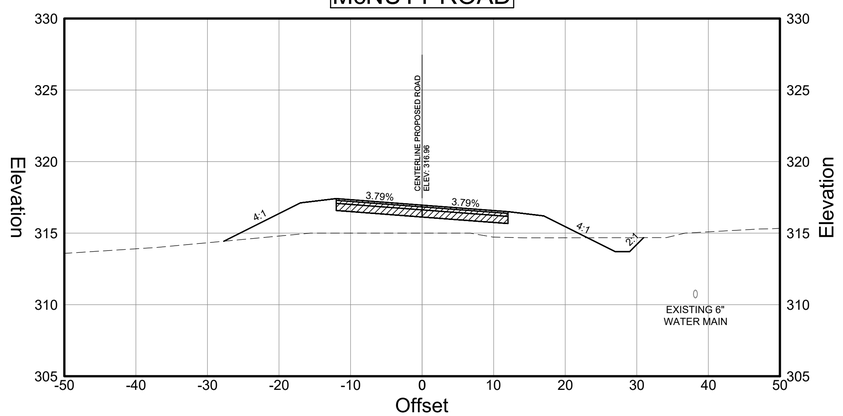

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Moreland Altobelli Associates, LLC
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Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

McNutt Road
15+50 to 18+00

DRAWING NUMBER

23 - 0006

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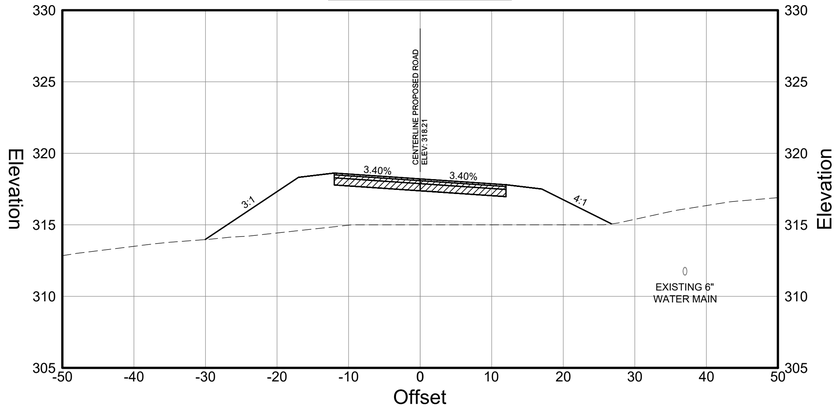
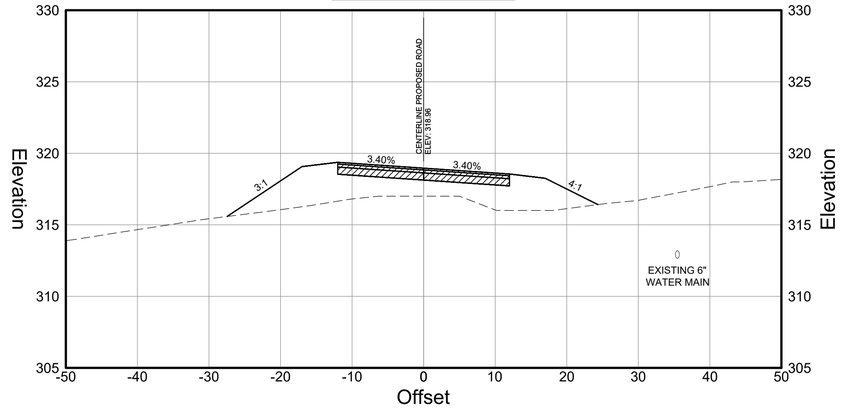
PROJECT: —

19+50.00 McNUTT ROAD



21+00.00 McNUTT ROAD



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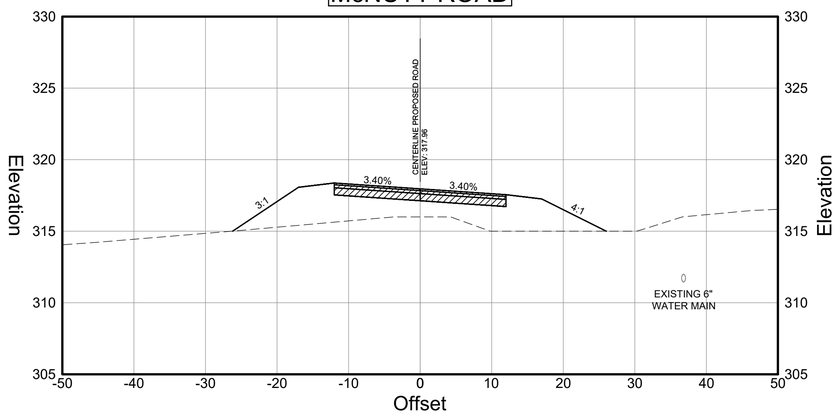
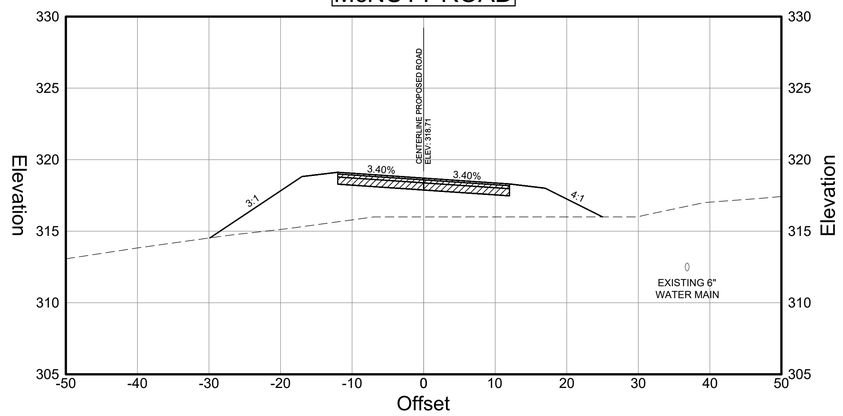
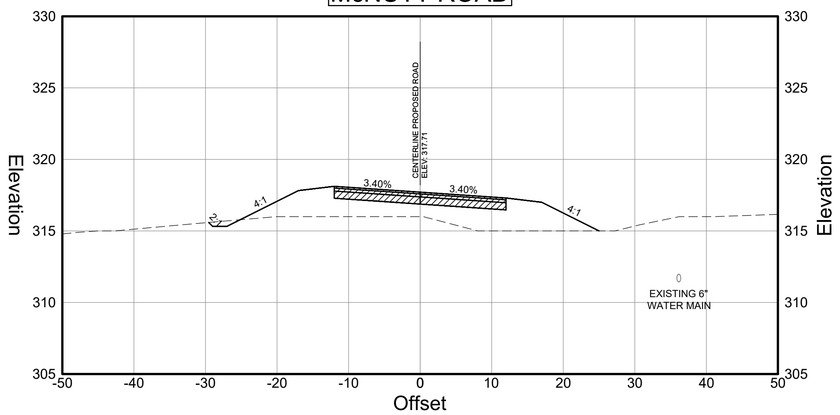


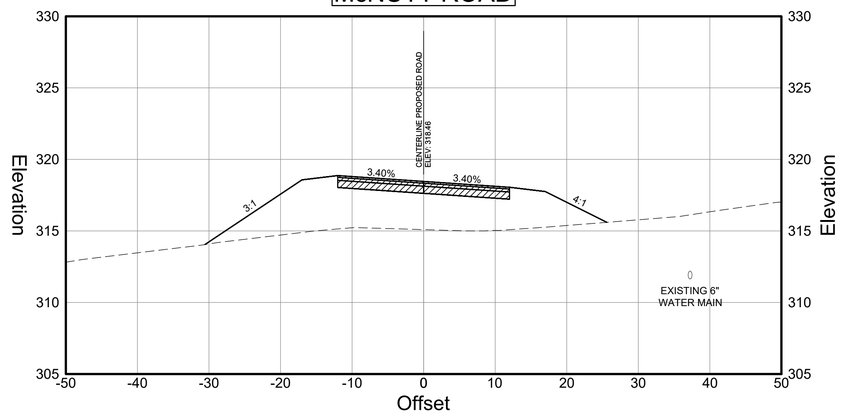
20+50.00 McNUTT ROAD



18+50.00 McNUTT ROAD



20+00.00 McNUTT ROAD



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CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

McNutt Road
18+50 to 21+00

DRAWING NUMBER

23 - 0007

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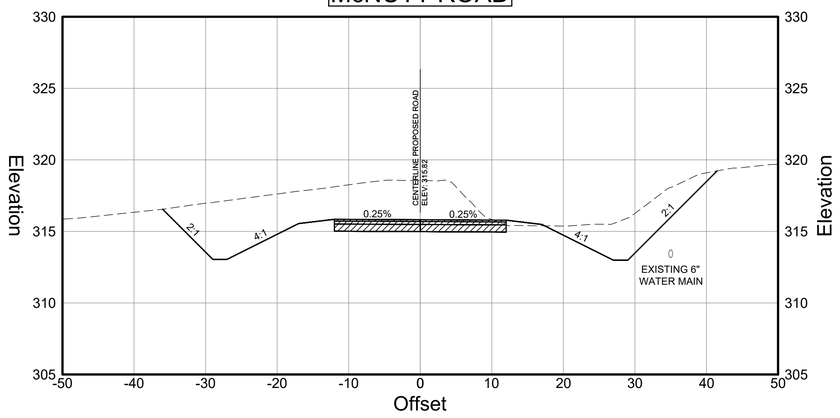
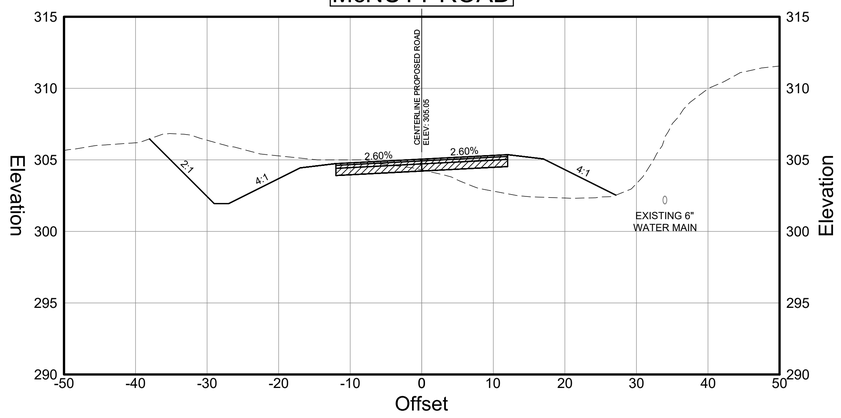
PROJECT: —

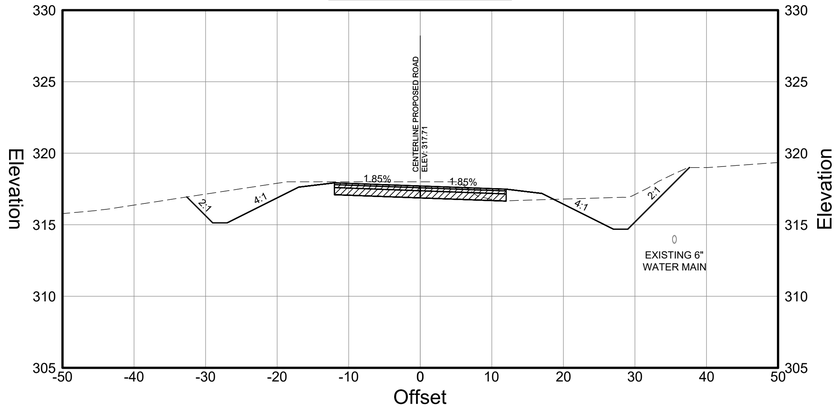
22+50.00 McNUTT ROAD



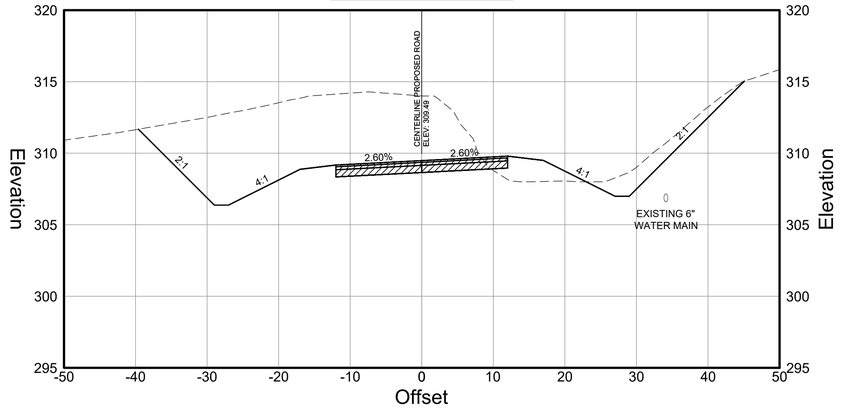
24+00.00 McNUTT ROAD



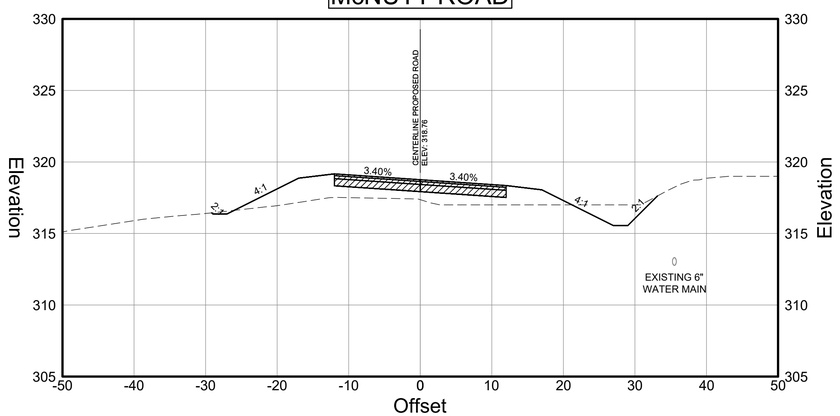
22+00.00 McNUTT ROAD



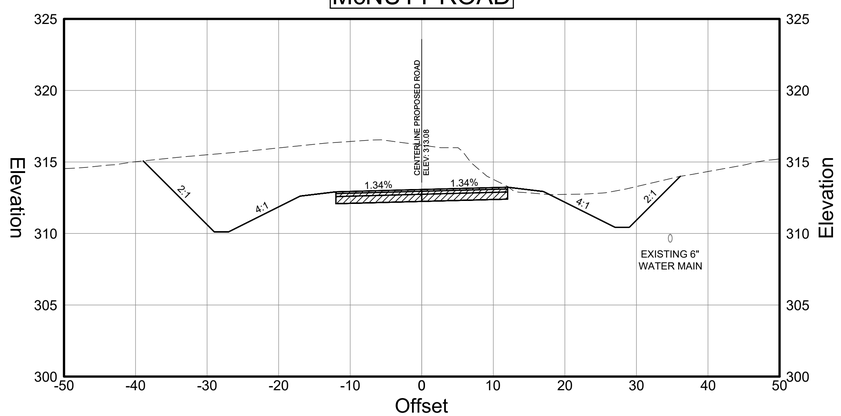
23+50.00 McNUTT ROAD



21+50.00 McNUTT ROAD



23+00.00 McNUTT ROAD



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	NAME	DATE
DESIGNED BY	NAA	01-24-20
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CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

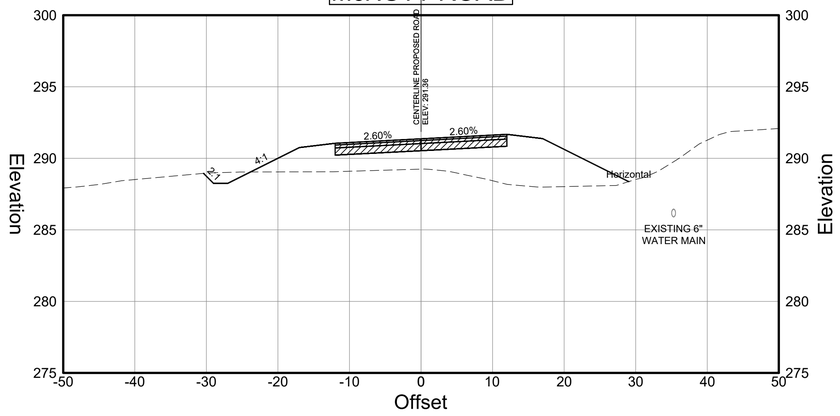
CROSS SECTIONS

McNutt Road
21+50 to 24+00

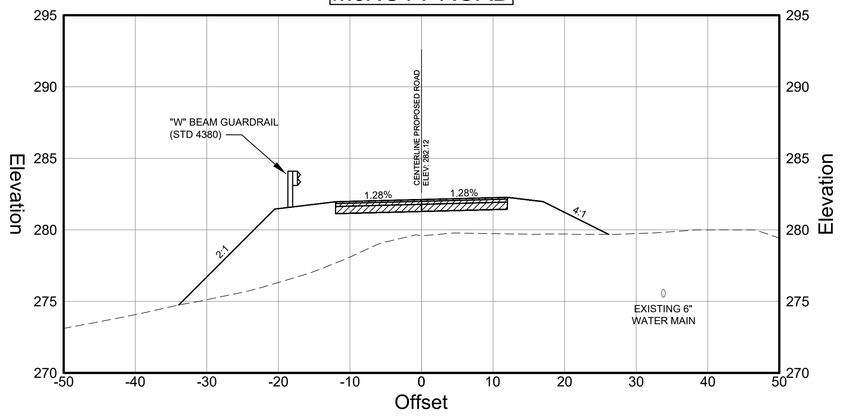
DRAWING NUMBER
23 - 0008

PROJECT: —

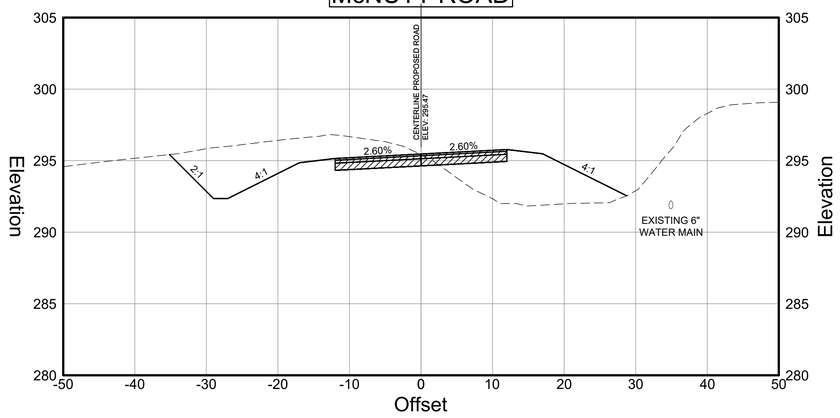
25+50.00 McNUTT ROAD



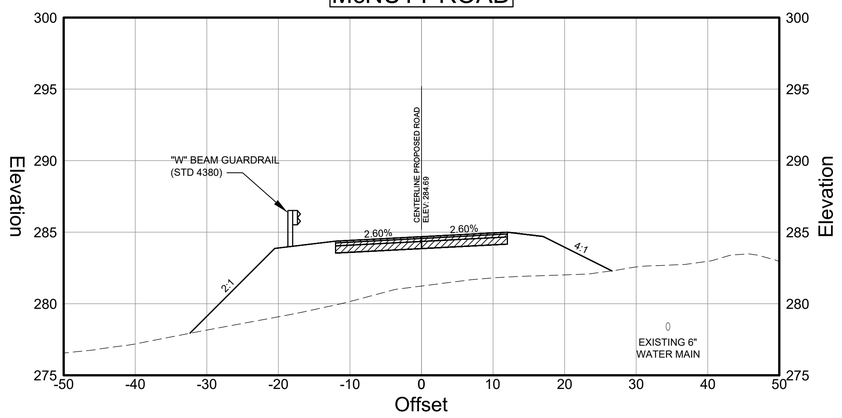
27+00.00 McNUTT ROAD



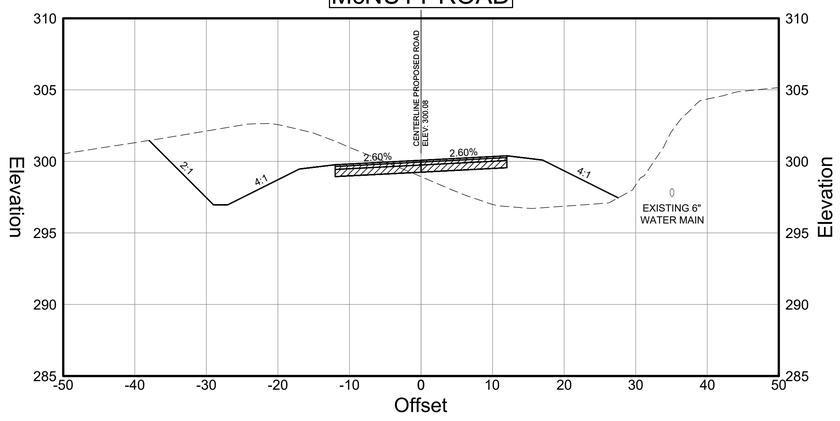
25+00.00 McNUTT ROAD



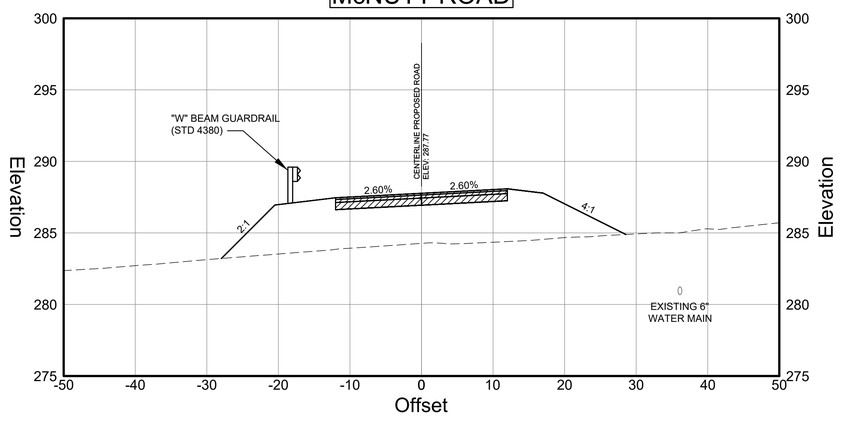
26+50.00 McNUTT ROAD



24+50.00 McNUTT ROAD



26+00.00 McNUTT ROAD



GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'

MORELAND ALTOBELLI — AN ATLAS COMPANY —
Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

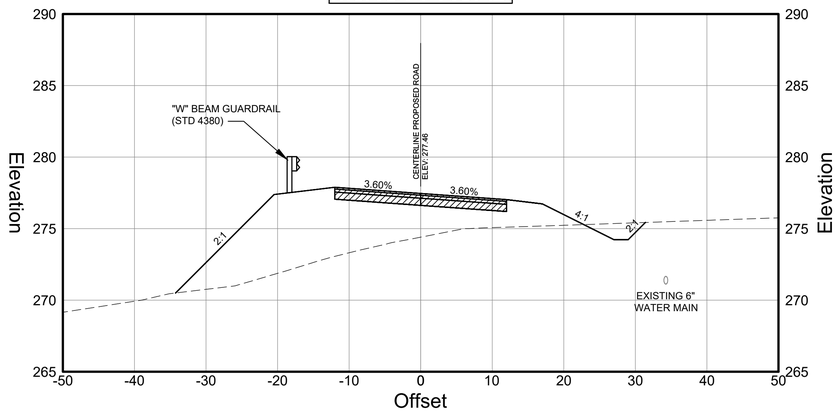
McNutt Road
24+50 to 27+00

DRAWING NUMBER
23 - 0009

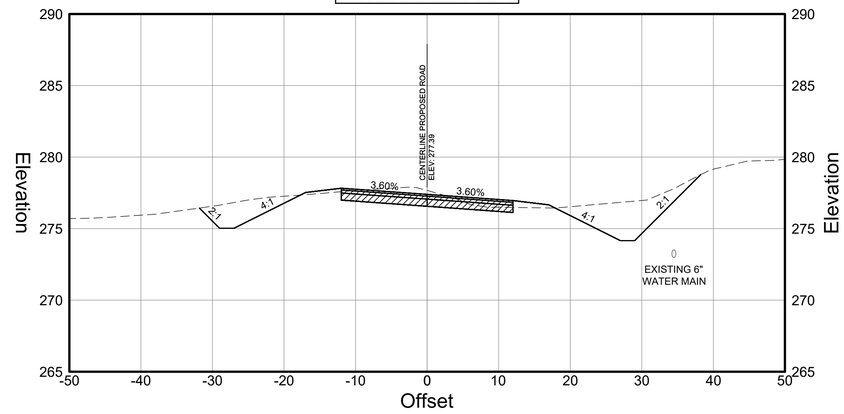
D:\Data\Projects\McNutt Road\Design\McNutt Road Cross Sections (10-2-19).dwg, 5/27/2021 2:51:03 PM

PROJECT: —

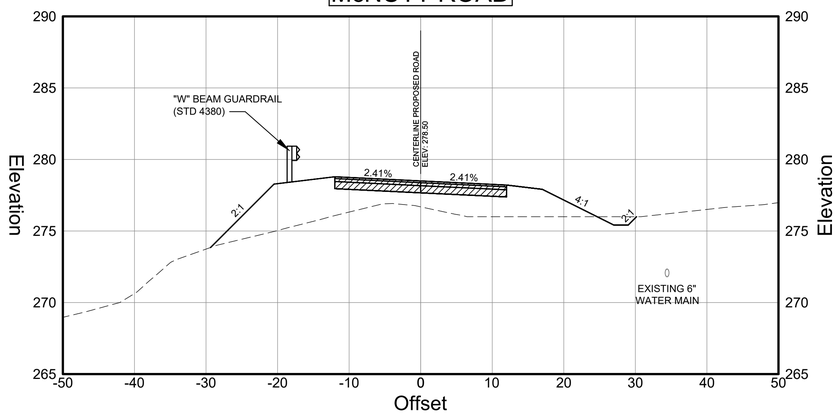
28+50.00 McNUTT ROAD



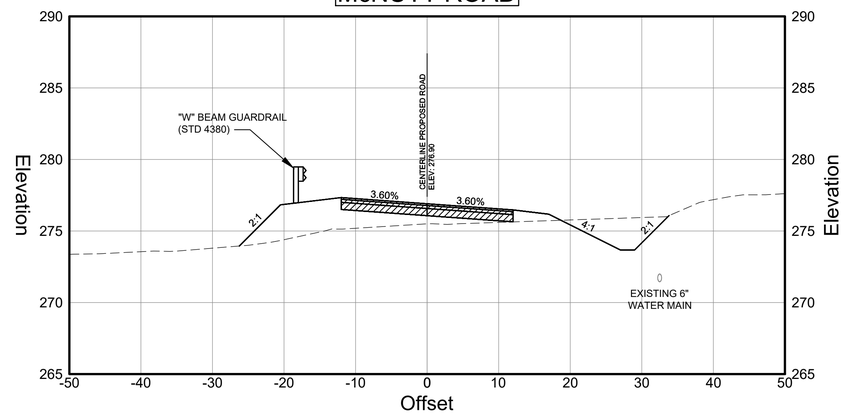
30+00.00 McNUTT ROAD



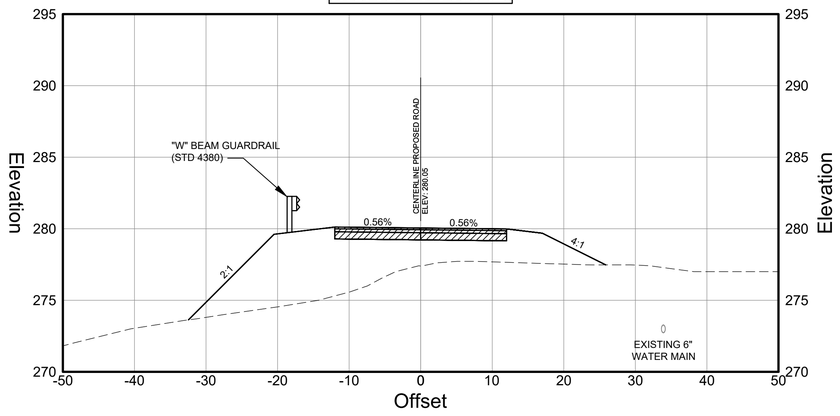
28+00.00 McNUTT ROAD



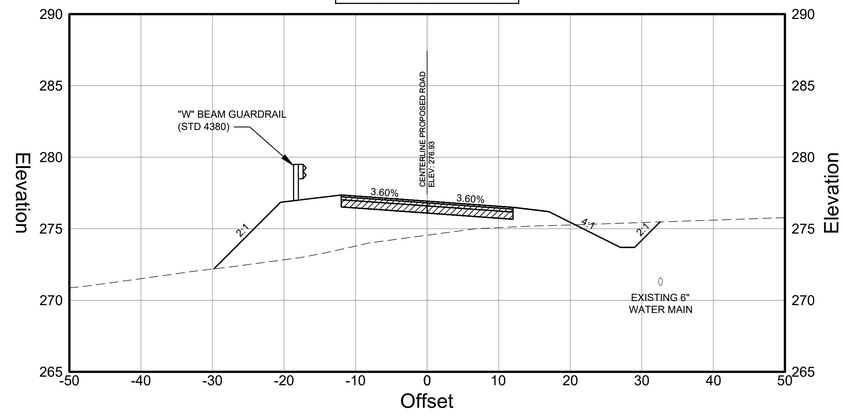
29+50.00 McNUTT ROAD



27+50.00 McNUTT ROAD



29+00.00 McNUTT ROAD



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CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

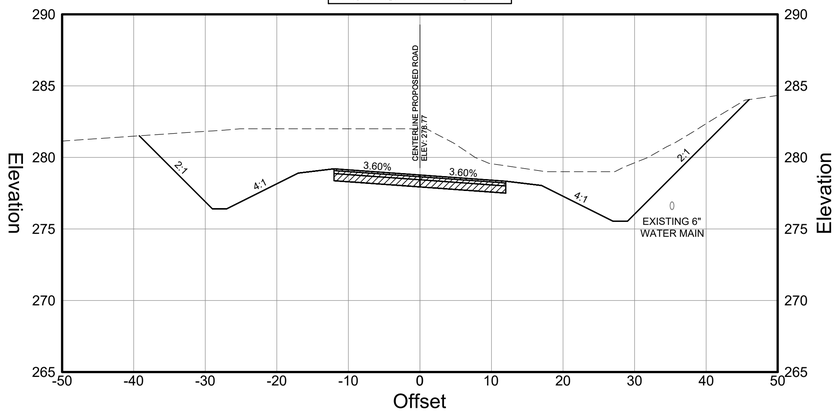
McNutt Road
27+50 to 30+00

DRAWING NUMBER

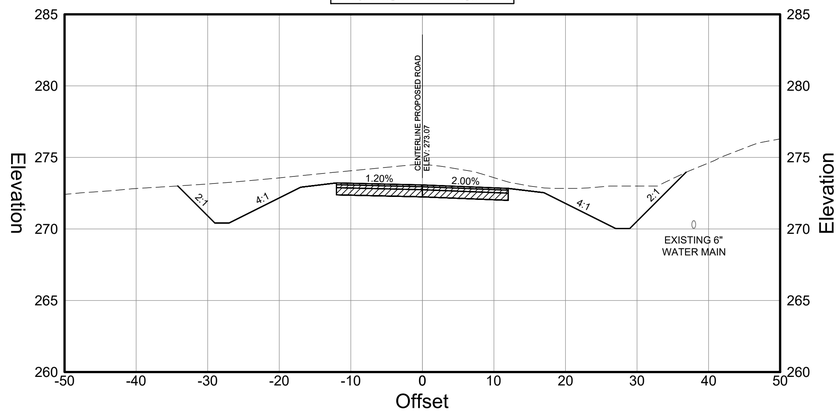
23 - 0010

PROJECT: —

31+50.00 McNUTT ROAD



33+00.00 McNUTT ROAD



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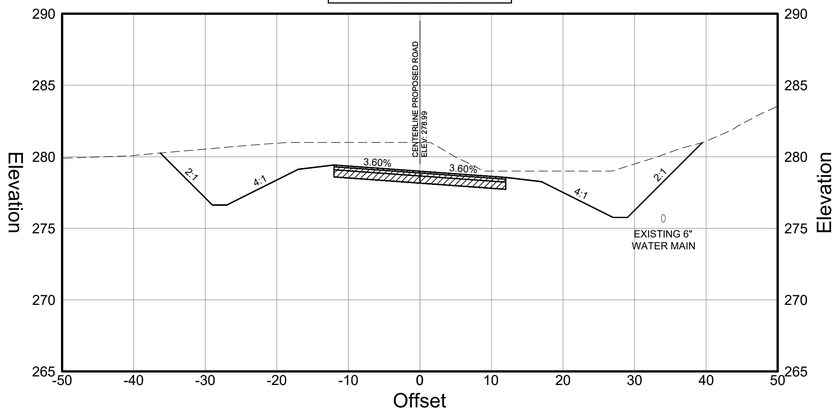
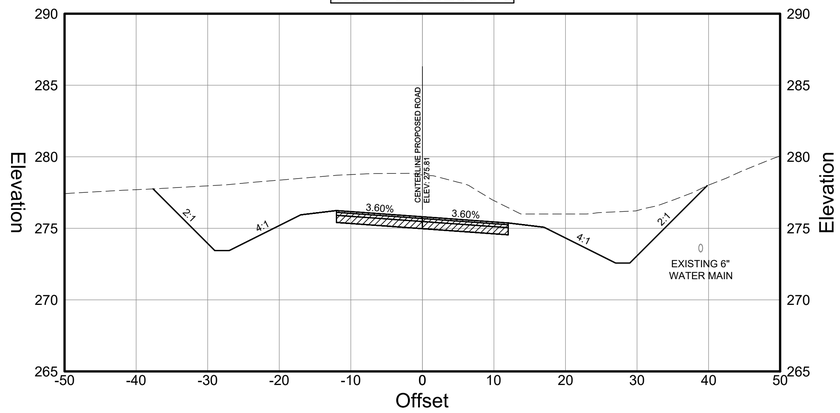
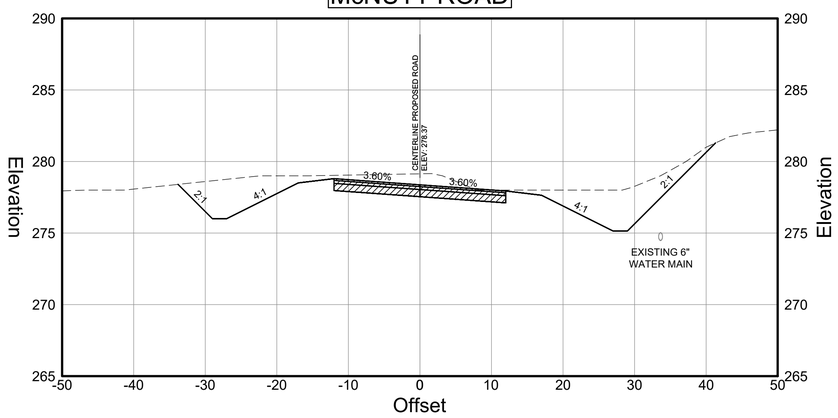


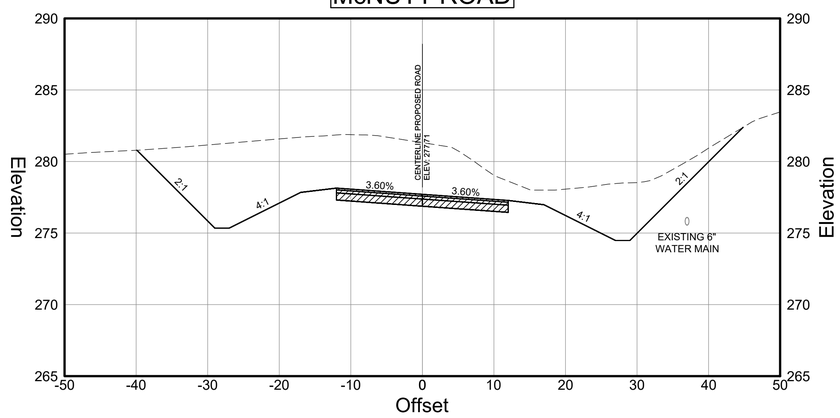
32+50.00 McNUTT ROAD



30+50.00 McNUTT ROAD



32+00.00 McNUTT ROAD



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CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

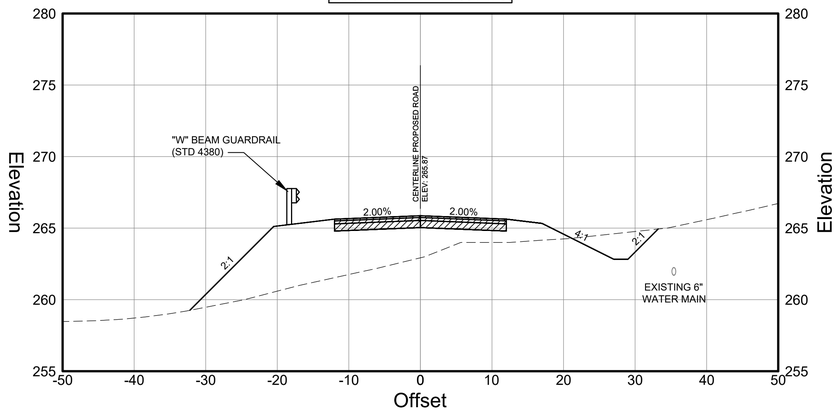
CROSS SECTIONS

McNutt Road
30+50 to 33+00

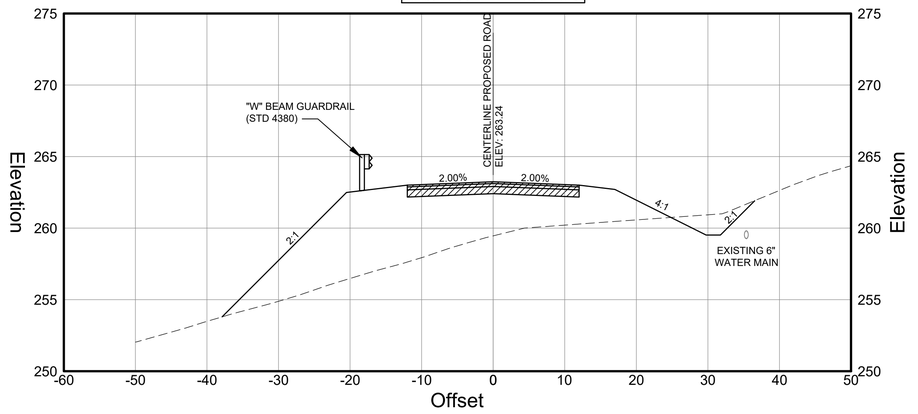
DRAWING NUMBER
23 - 0011

PROJECT: —

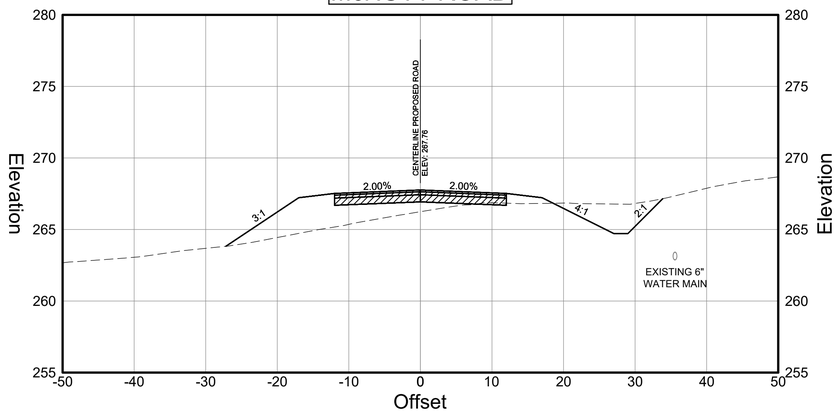
34+50.00 McNUTT ROAD



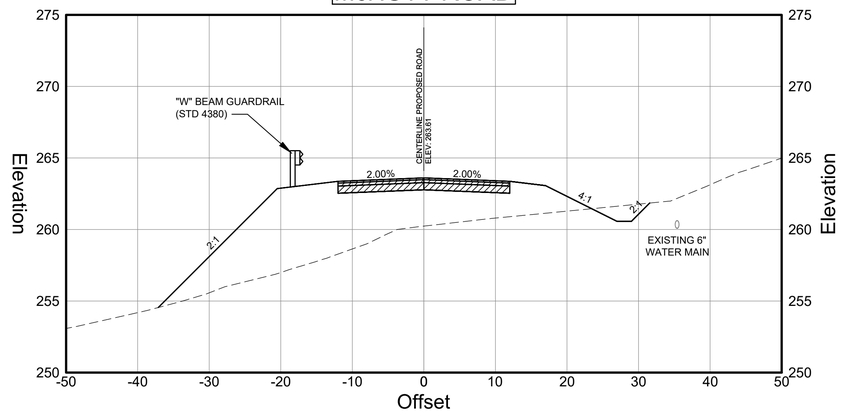
36+00.00 McNUTT ROAD



34+00.00 McNUTT ROAD



35+50.00 McNUTT ROAD



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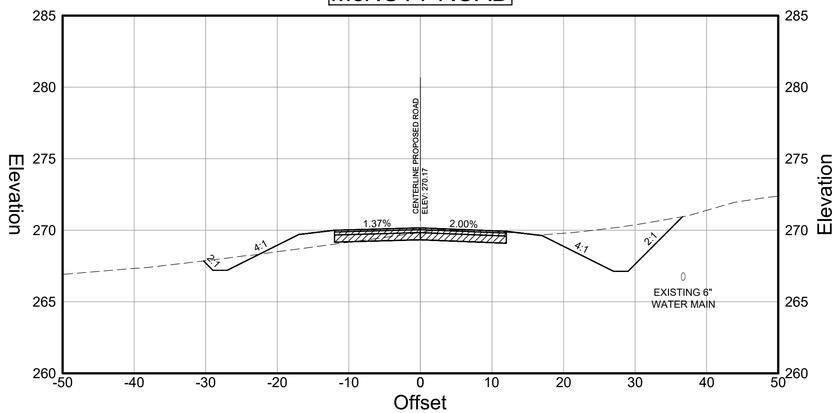
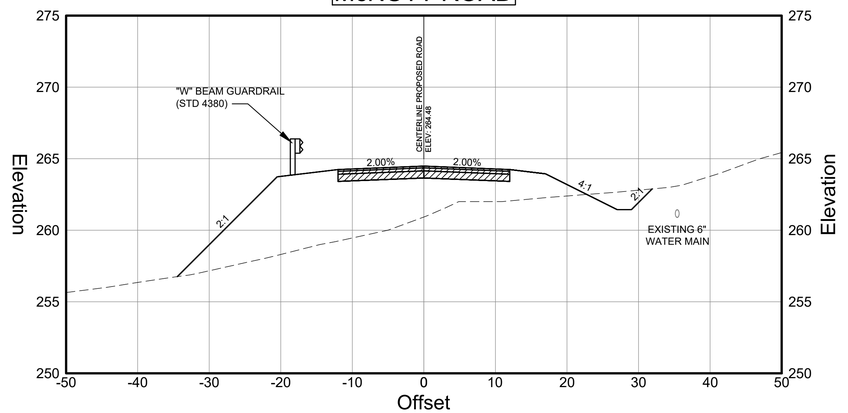


35+00.00 McNUTT ROAD



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Suite 1401
Cumming, Georgia 30040
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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta Georgia

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

McNutt Road
33+50 to 36+00

DRAWING NUMBER
23 - 0012

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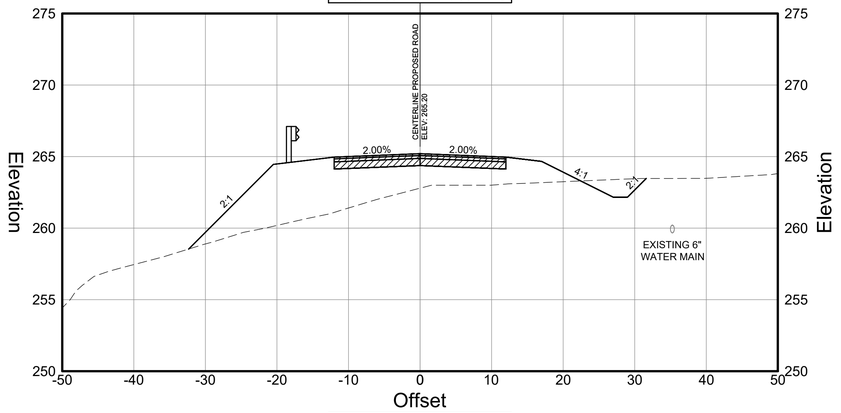
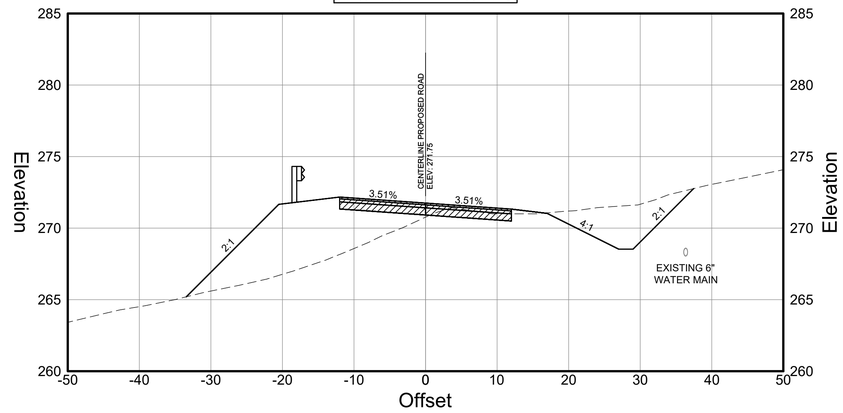
PROJECT: —

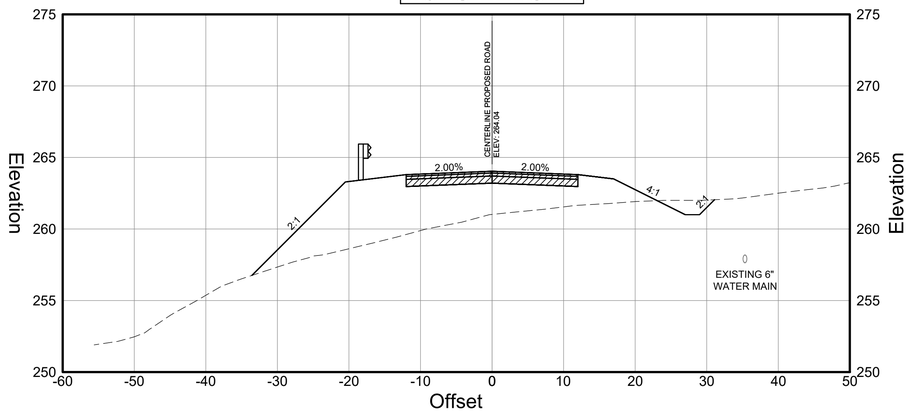
37+50.00 McNUTT ROAD



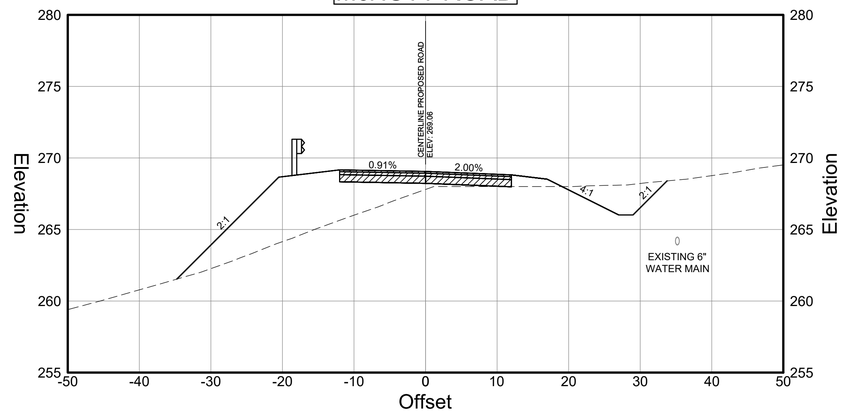
39+00.00 McNUTT ROAD



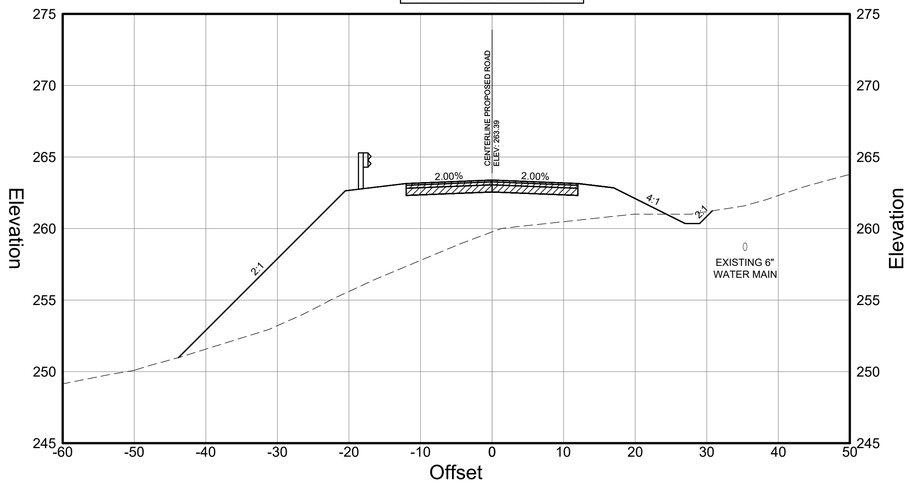
37+00.00 McNUTT ROAD



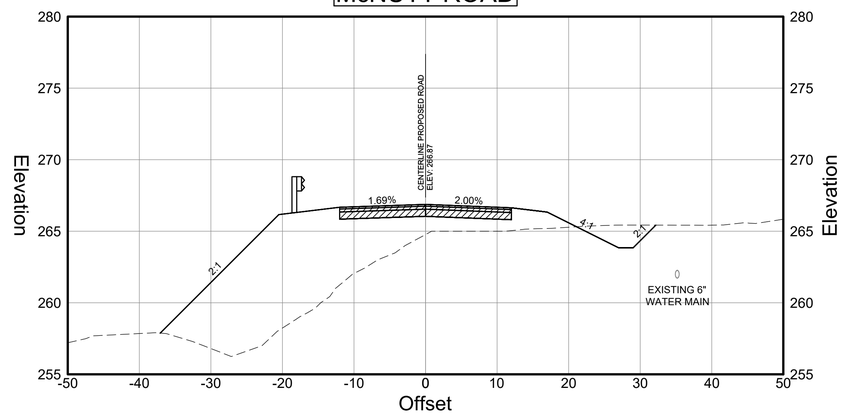
38+50.00 McNUTT ROAD



36+50.00 McNUTT ROAD



38+00.00 McNUTT ROAD



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VERTICAL SCALE: 1" = 5'

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Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

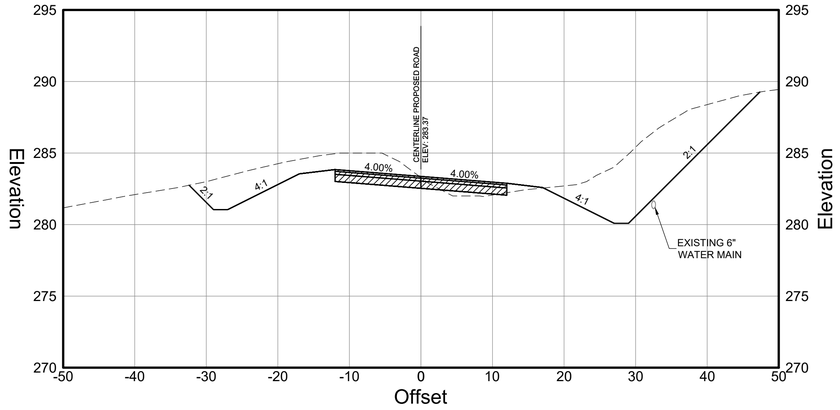
McNutt Road
36+50 to 39+00

DRAWING NUMBER
23 - 0013

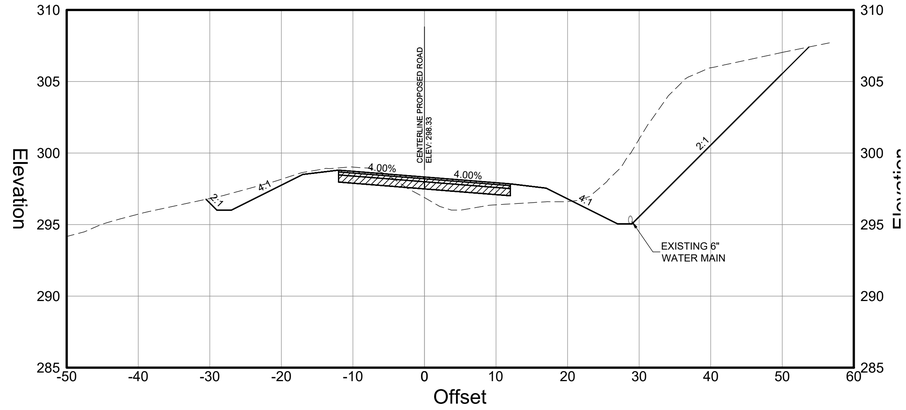
D:\Data\Projects\McNutt Road\Design\McNutt Road Cross Sections (10-2-19).dwg, 5/27/2021 2:53:22 PM

PROJECT: —

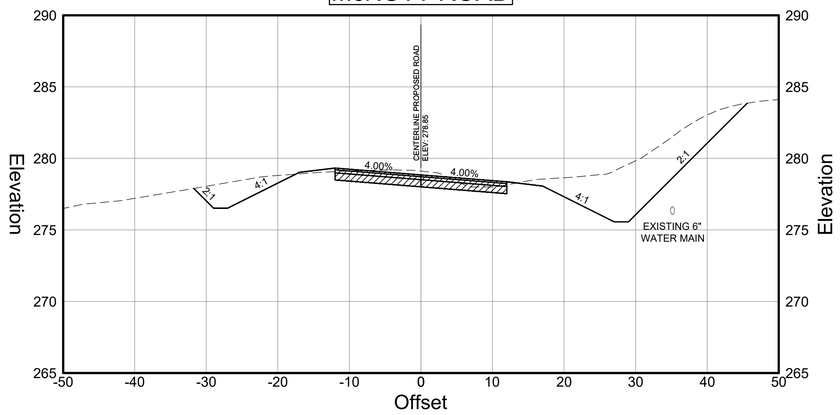
40+50.00 McNUTT ROAD



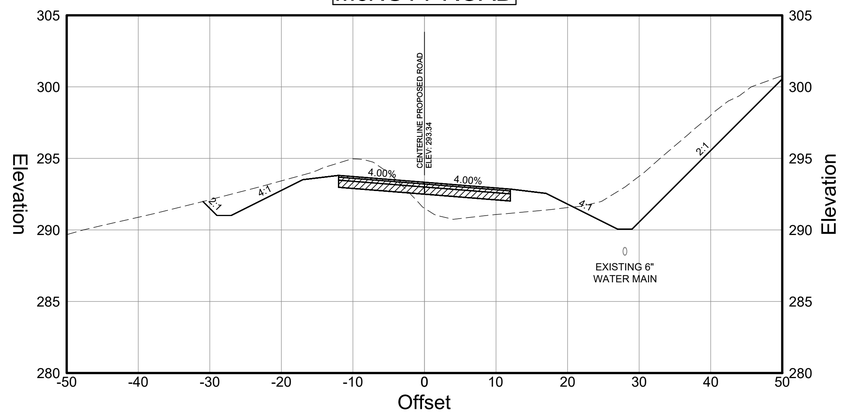
42+00.00 McNUTT ROAD



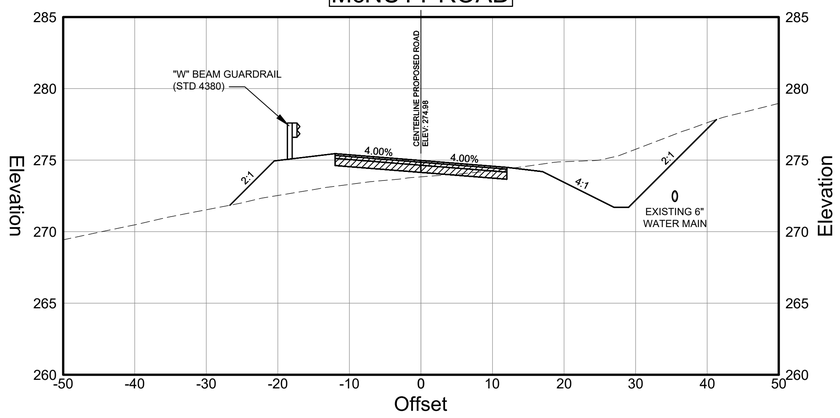
40+00.00 McNUTT ROAD



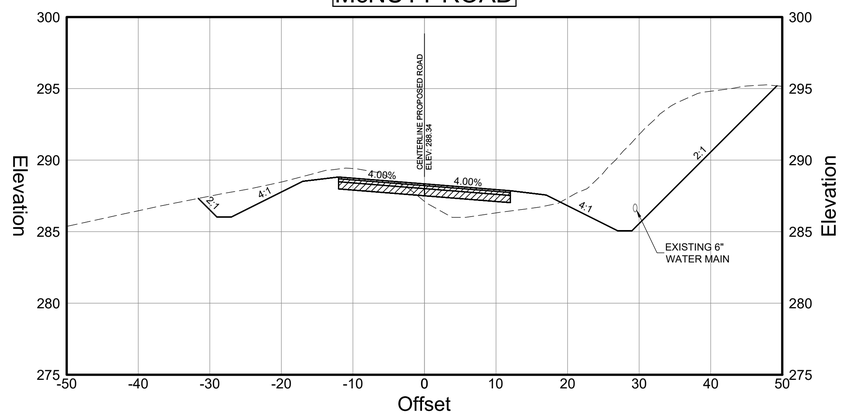
41+50.00 McNUTT ROAD



39+50.00 McNUTT ROAD



41+00.00 McNUTT ROAD



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	NAME	DATE
DESIGNED BY	NAA	01-24-20
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CHECKED BY	KEQ	01-24-20

Augusta Georgia

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

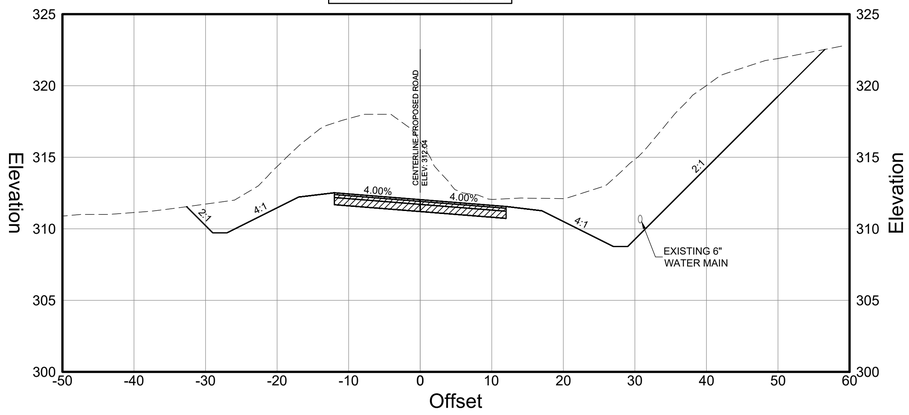
CROSS SECTIONS

McNutt Road
39+50 to 42+00

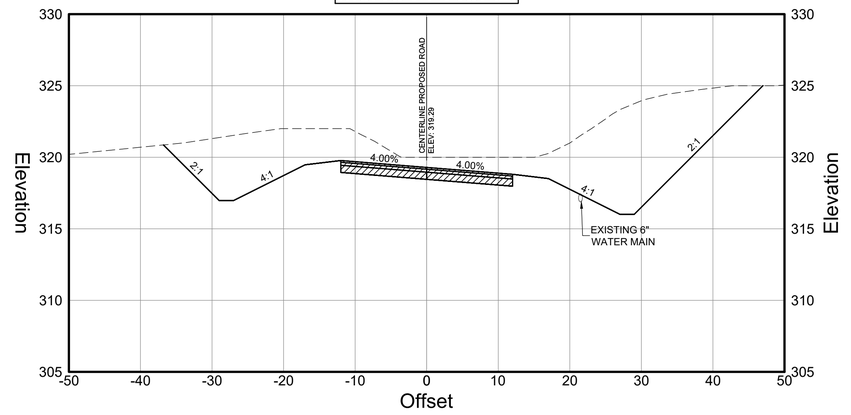
DRAWING NUMBER
23 - 0014

PROJECT: —

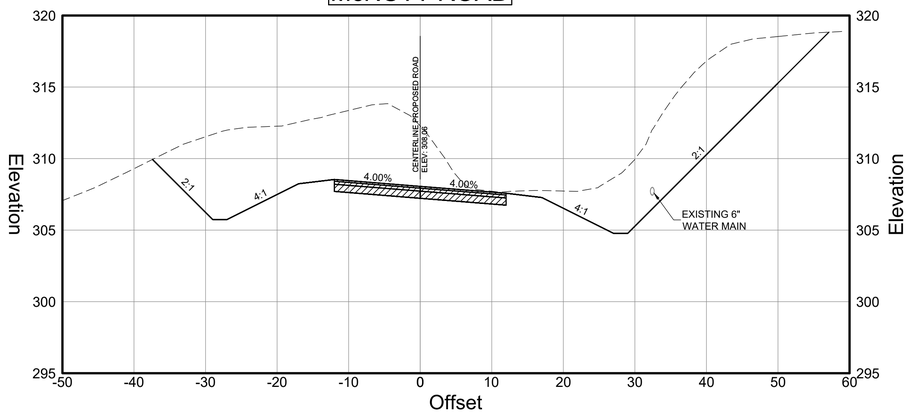
43+50.00 McNUTT ROAD



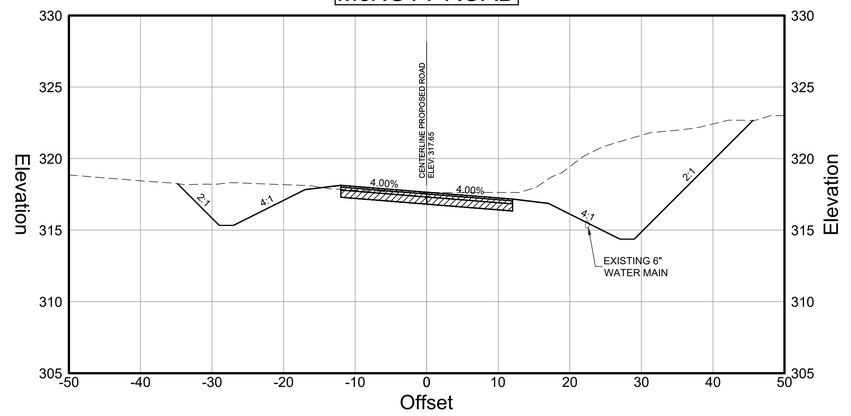
45+00.00 McNUTT ROAD



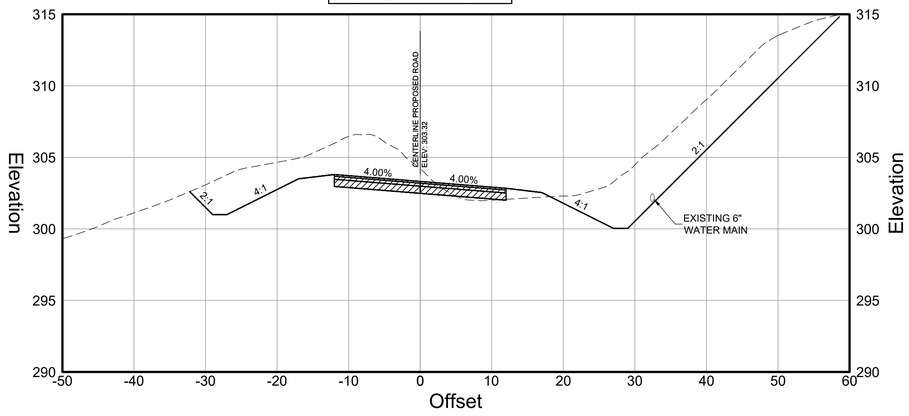
43+00.00 McNUTT ROAD



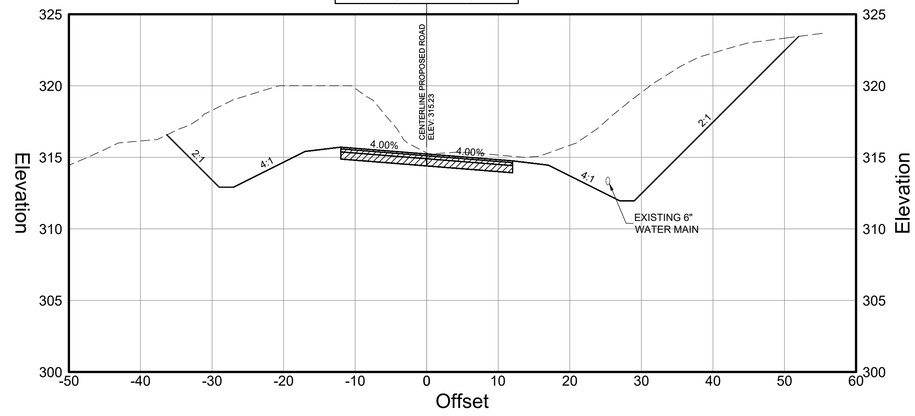
44+50.00 McNUTT ROAD



42+50.00 McNUTT ROAD



44+00.00 McNUTT ROAD



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DESIGNED BY	NAA	01-24-20
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CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

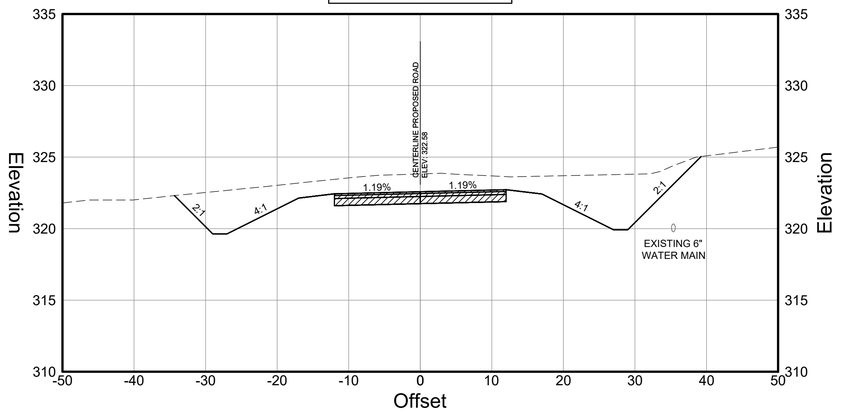
McNutt Road
42+50 to 45+00

DRAWING NUMBER

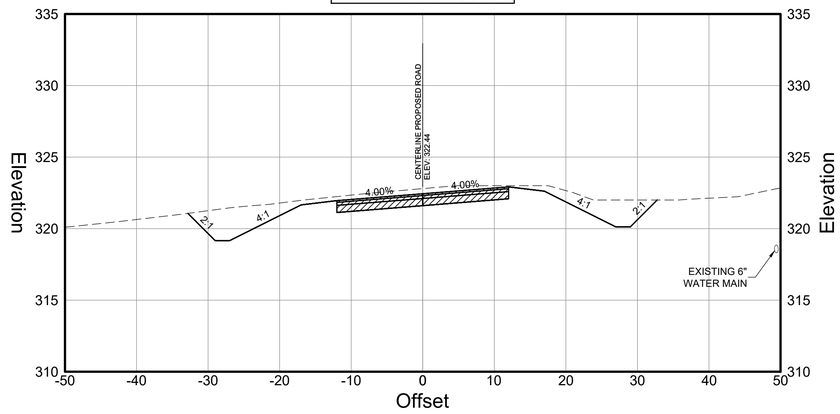
23 - 0015

PROJECT: —

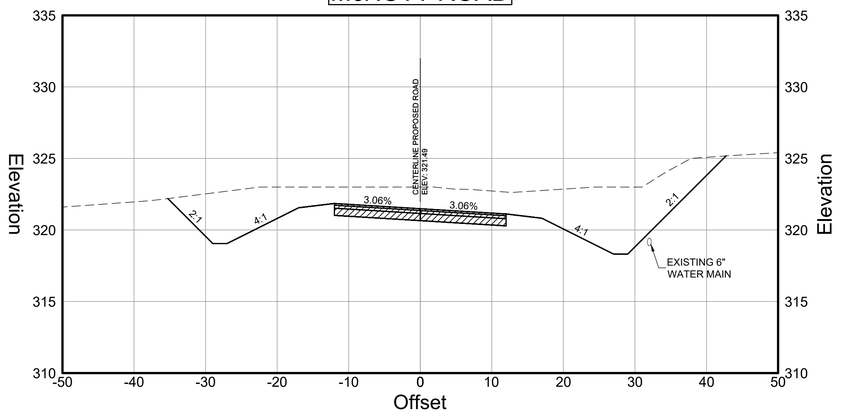
46+50.00 McNUTT ROAD



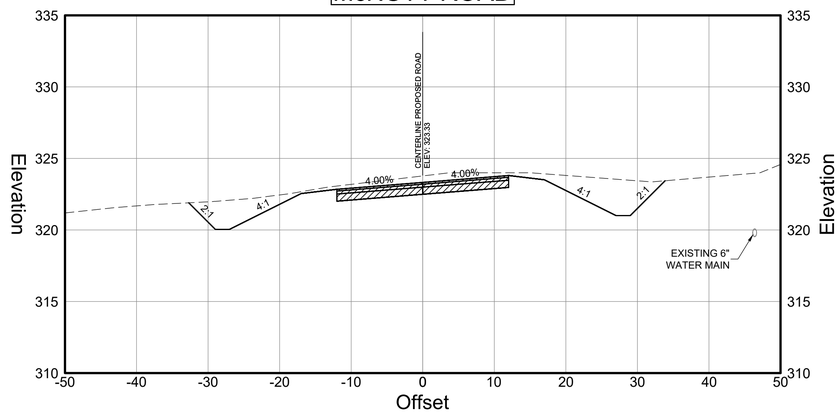
48+00.00 McNUTT ROAD



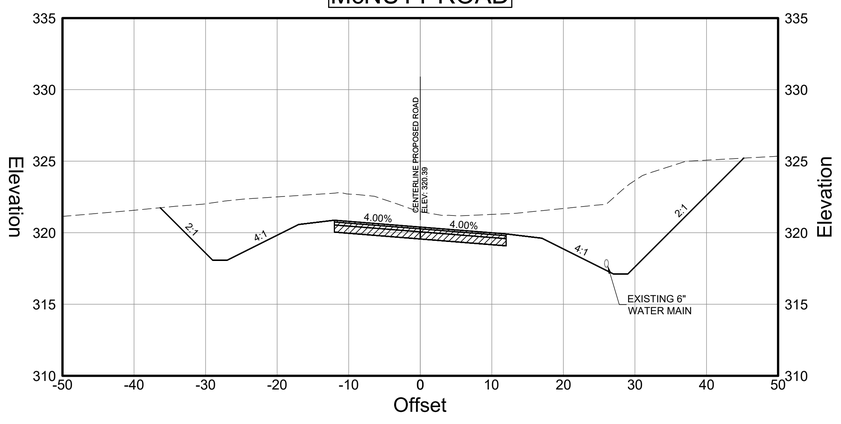
46+00.00 McNUTT ROAD



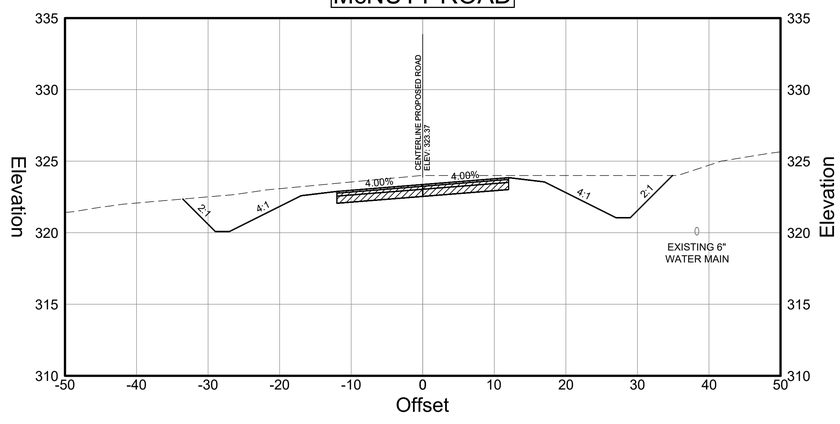
47+50.00 McNUTT ROAD



45+50.00 McNUTT ROAD



47+00.00 McNUTT ROAD



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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

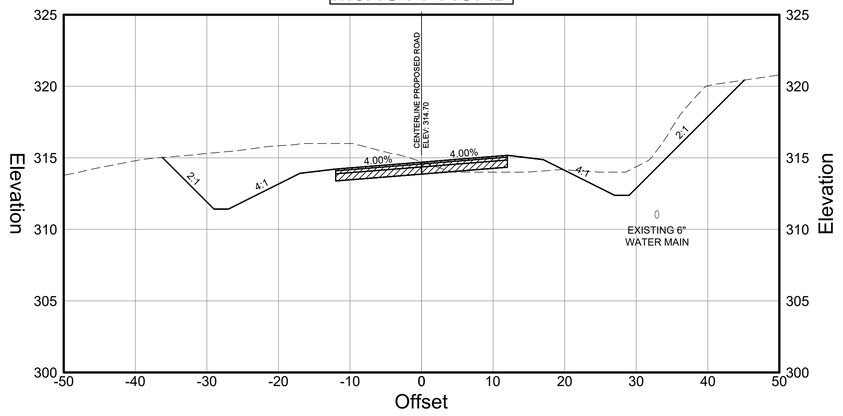
McNutt Road
45+50 to 48+00

DRAWING NUMBER
23 - 0016

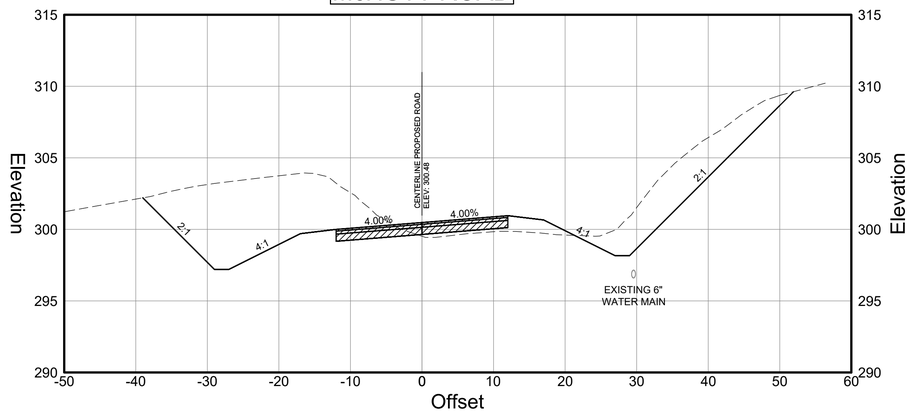
D:\Data\Projects\McNutt Road\Design\McNutt Road Cross Sections (10-2-19).dwg, 5/27/2021 2:55:08 PM

PROJECT: —

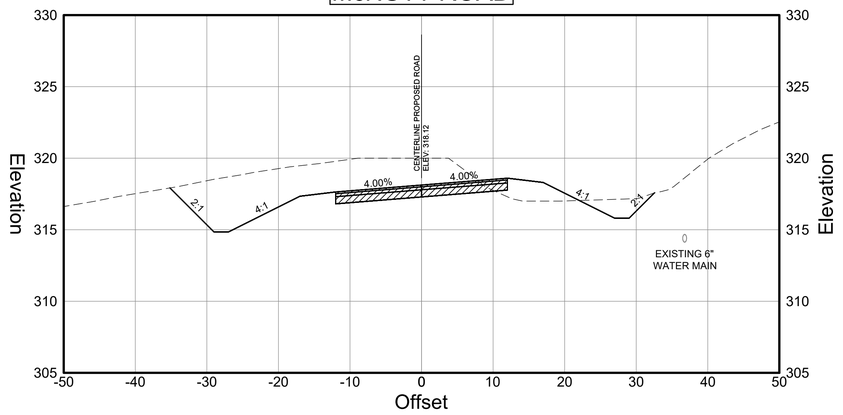
49+50.00 McNUTT ROAD



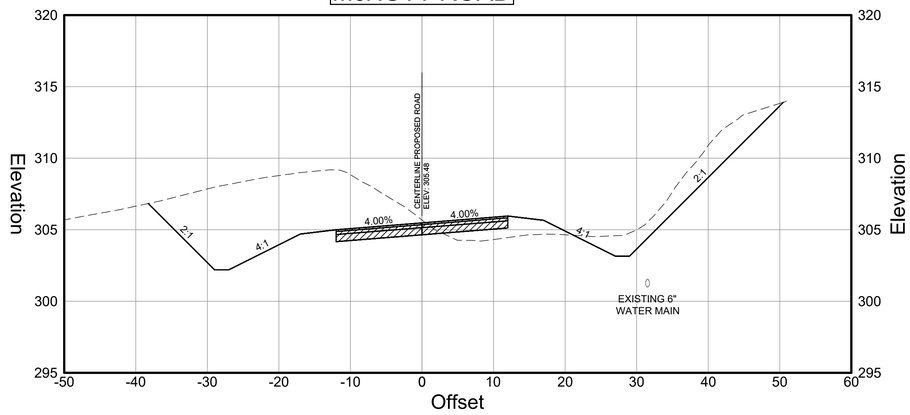
51+00.00 McNUTT ROAD



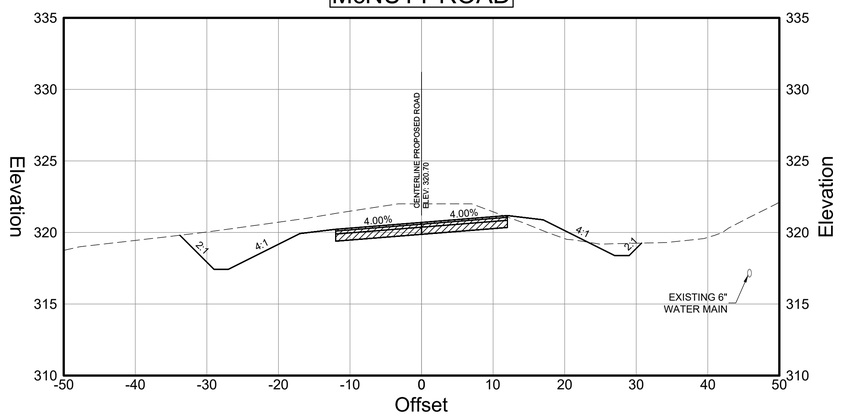
49+00.00 McNUTT ROAD



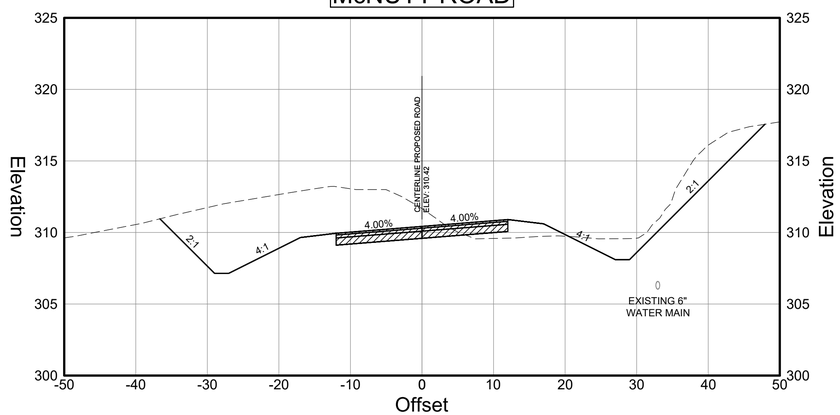
50+50.00 McNUTT ROAD



48+50.00 McNUTT ROAD



50+00.00 McNUTT ROAD



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HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

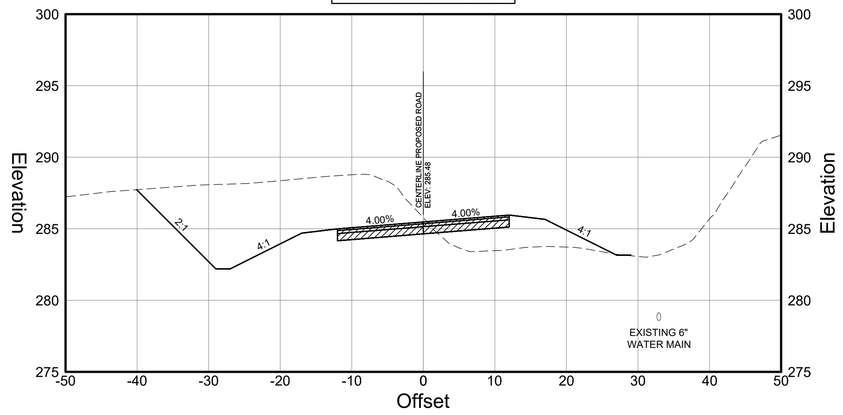
McNutt Road
48+50 to 51+00

DRAWING NUMBER
23 - 0017

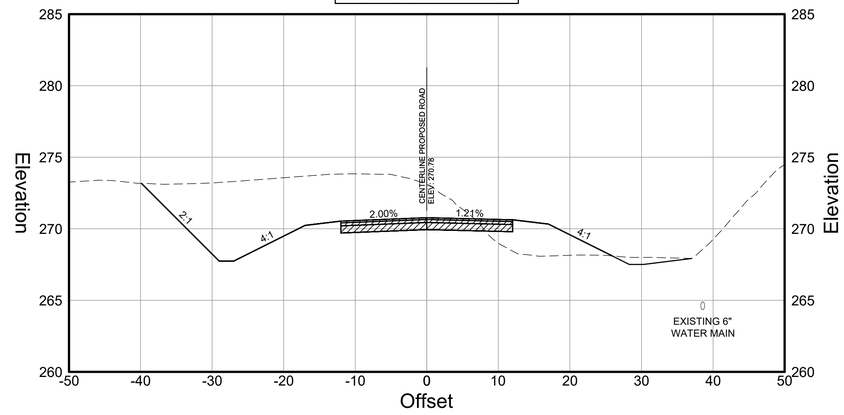
D:\Data\Projects\McNutt Road\Design\McNutt Road Cross Sections (10-2-19).dwg, 5/27/2021 2:55:43 PM

PROJECT: —

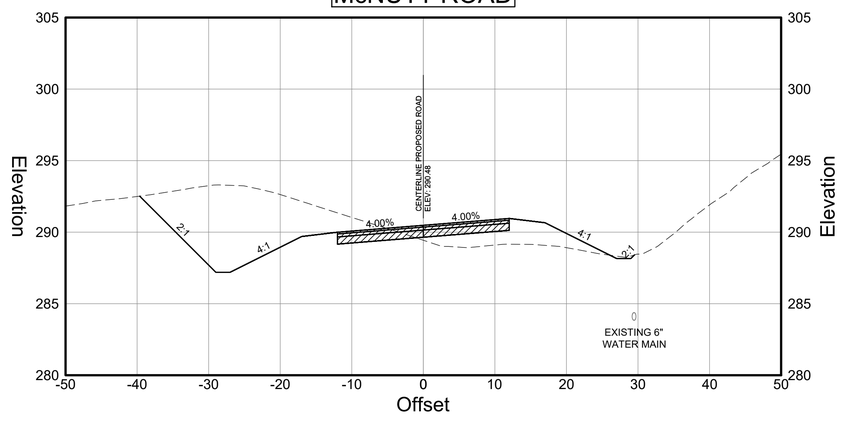
52+50.00 McNUTT ROAD



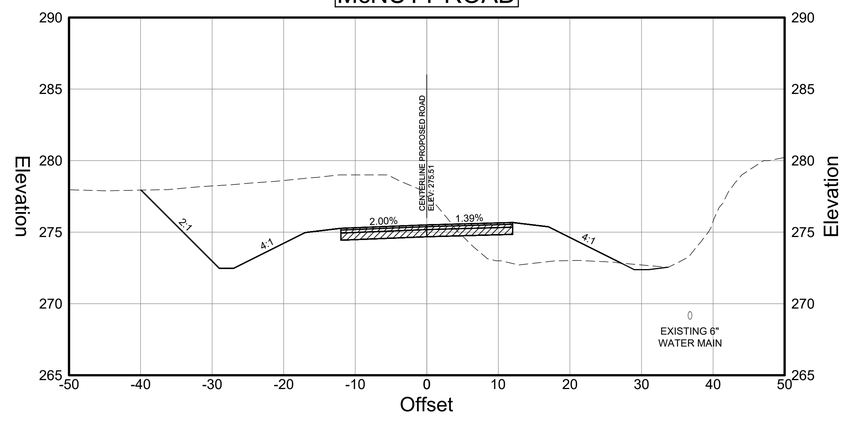
54+00.00 McNUTT ROAD



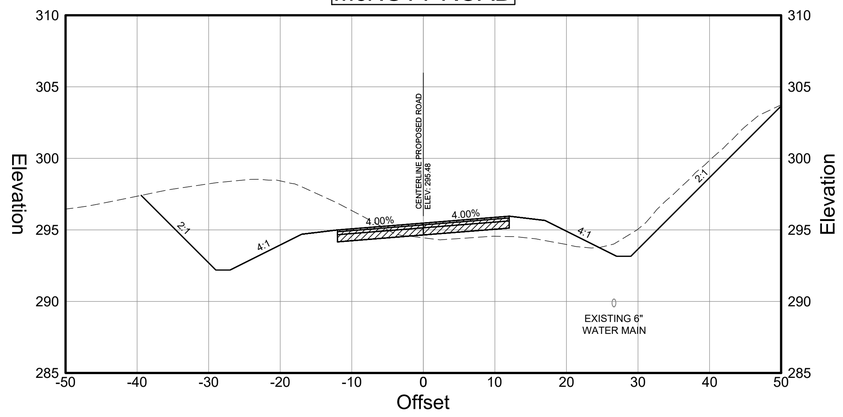
52+00.00 McNUTT ROAD



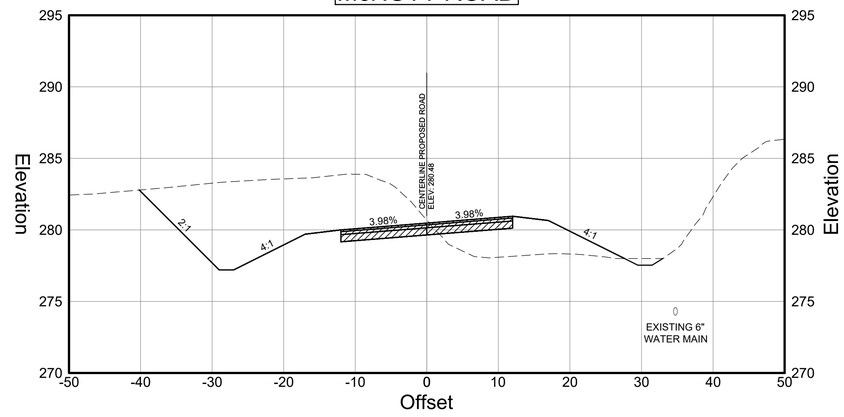
53+50.00 McNUTT ROAD



51+50.00 McNUTT ROAD



53+00.00 McNUTT ROAD



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CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

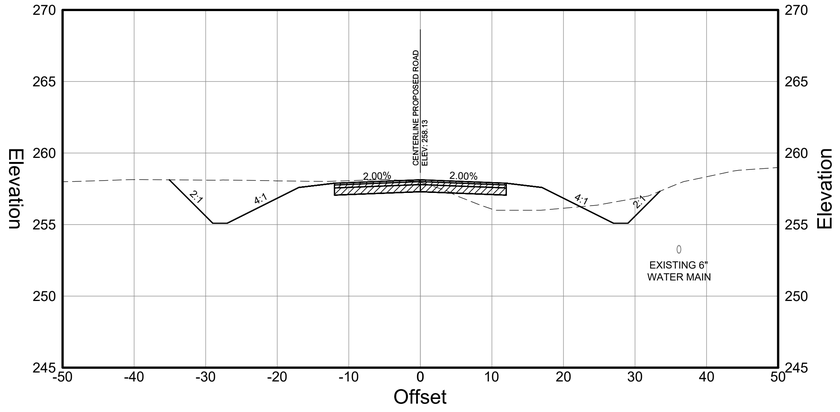
McNutt Road
51+50 to 54+00

DRAWING NUMBER

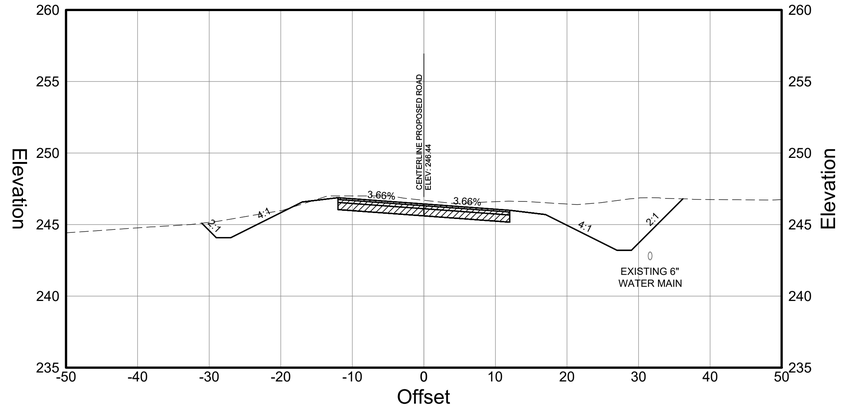
23 - 0018

PROJECT: —

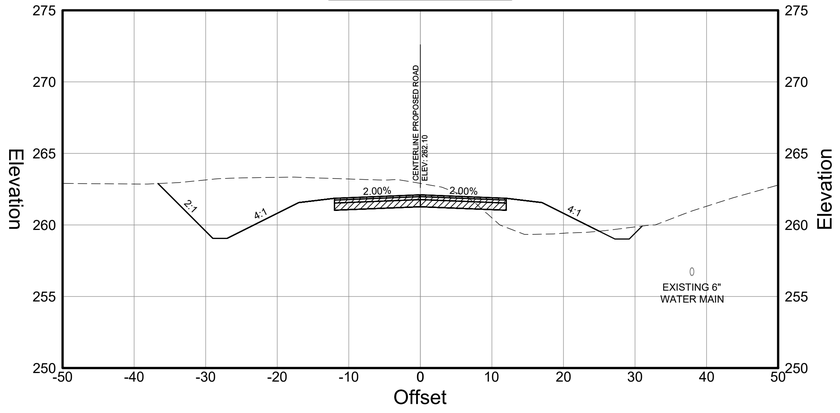
55+50.00 McNUTT ROAD



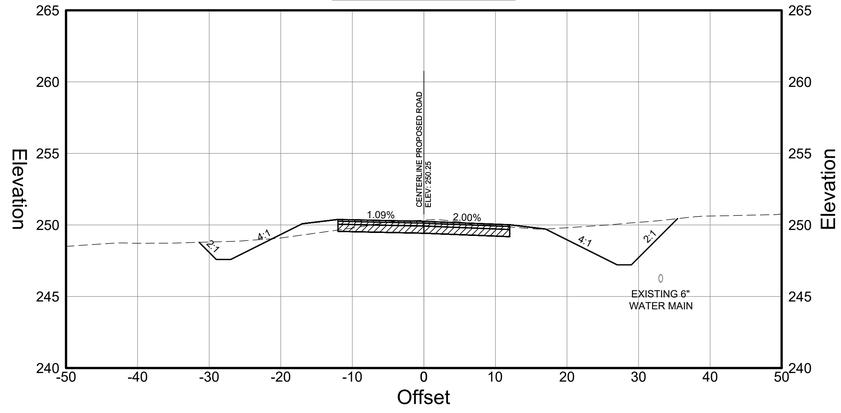
57+00.00 McNUTT ROAD



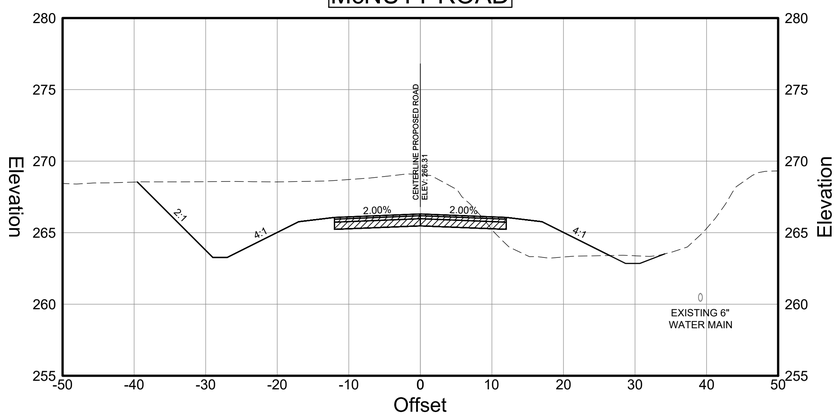
55+00.00 McNUTT ROAD



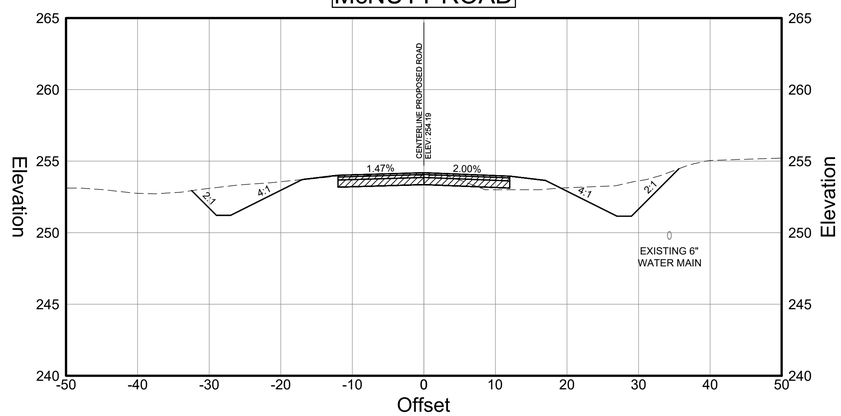
56+50.00 McNUTT ROAD



54+50.00 McNUTT ROAD



56+00.00 McNUTT ROAD



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CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

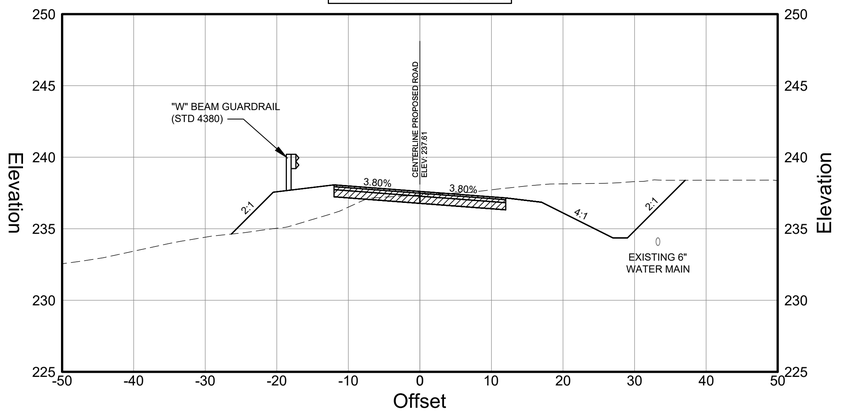
CROSS SECTIONS

McNutt Road
54+50 to 57+00

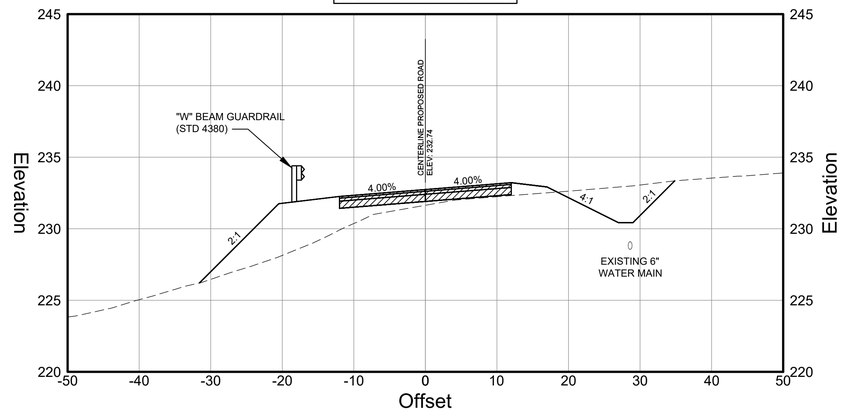
DRAWING NUMBER
23 - 0019

PROJECT: —

58+50.00 McNUTT ROAD



60+00.00 McNUTT ROAD



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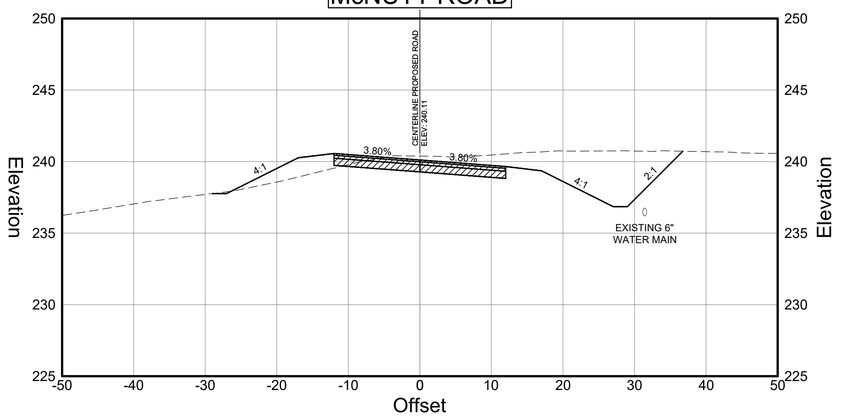
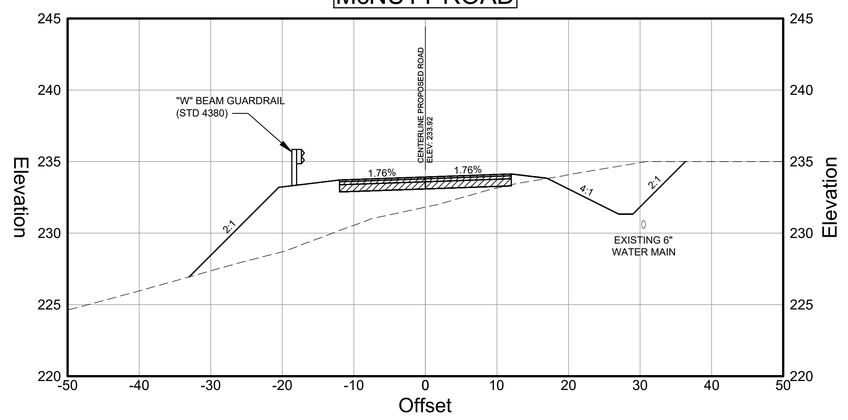
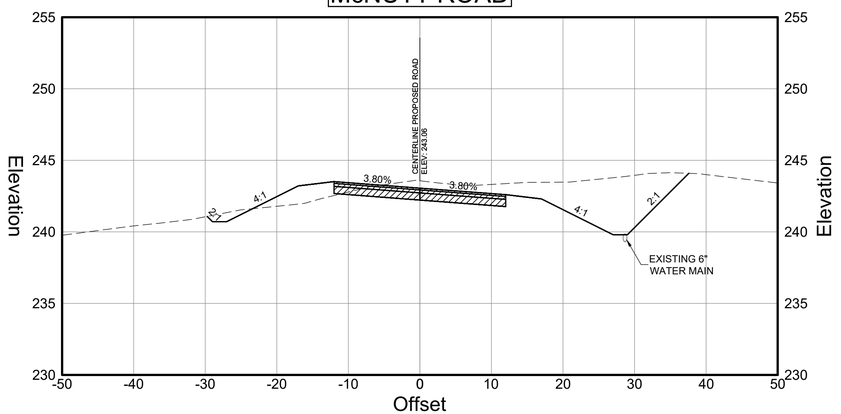


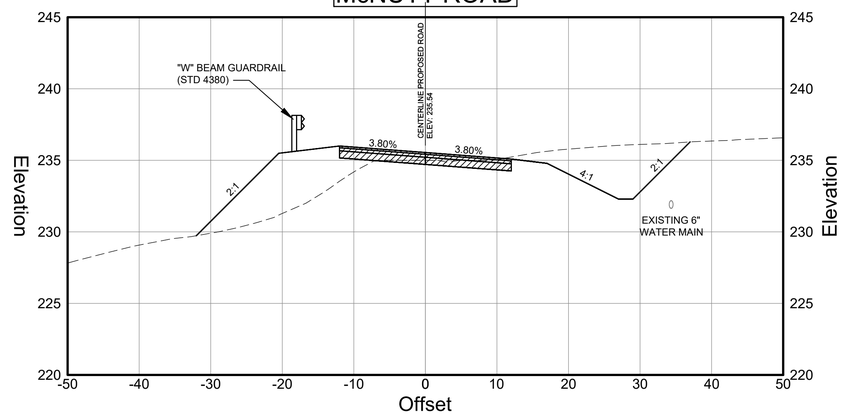
59+50.00 McNUTT ROAD



57+50.00 McNUTT ROAD



59+00.00 McNUTT ROAD



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	NAME	DATE
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DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

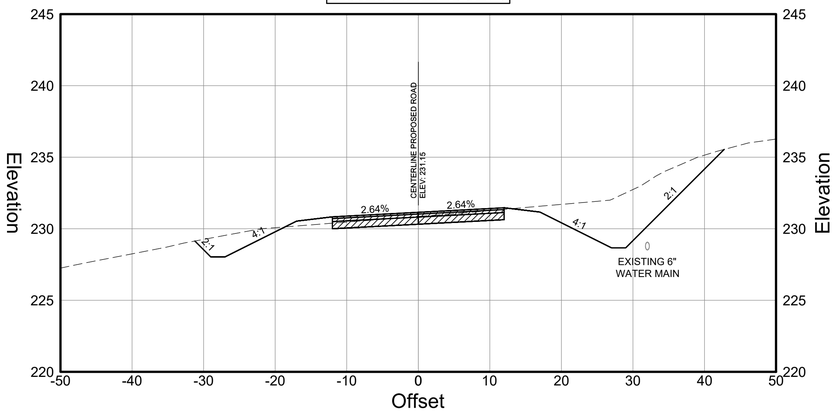
CROSS SECTIONS

McNutt Road
57+50 to 60+00

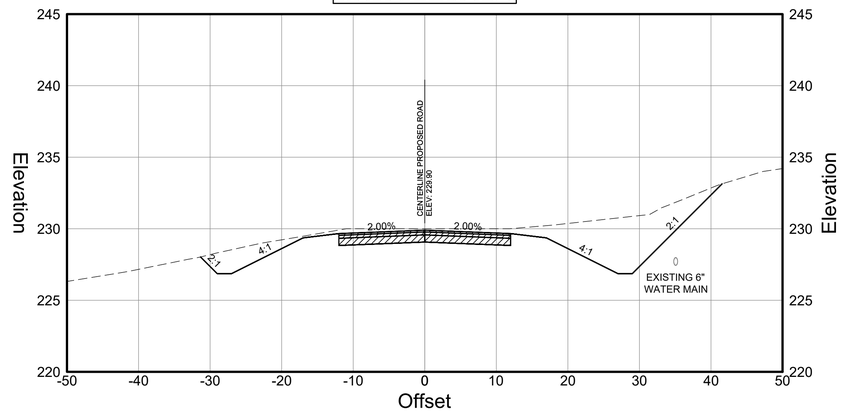
DRAWING NUMBER
23 - 0020

PROJECT: —

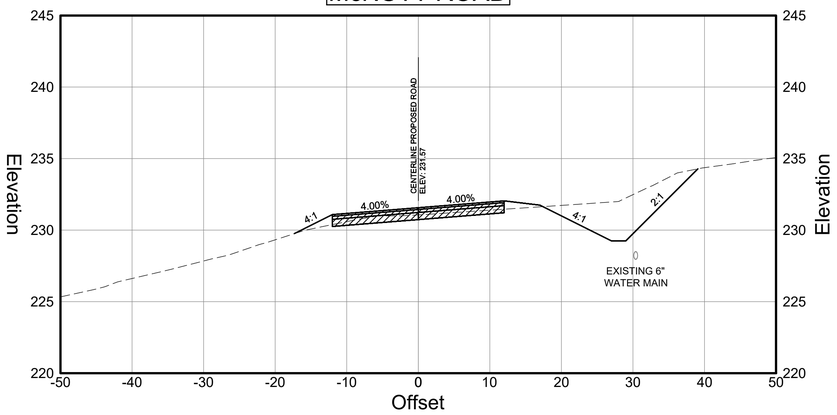
61+50.00 McNUTT ROAD



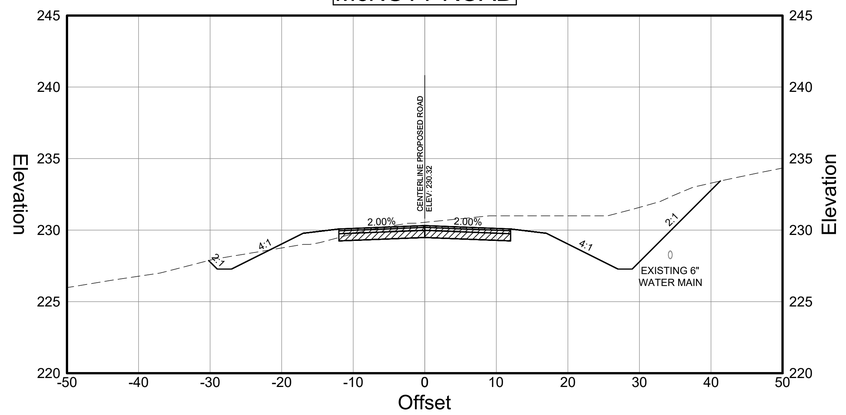
63+00.00 McNUTT ROAD



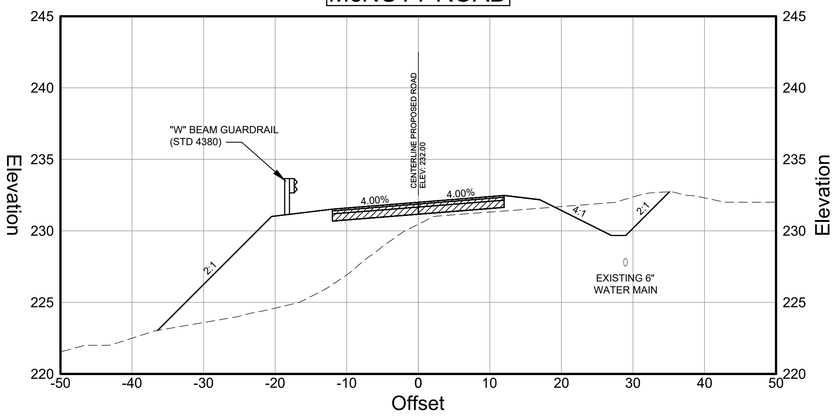
61+00.00 McNUTT ROAD



62+50.00 McNUTT ROAD



60+50.00 McNUTT ROAD



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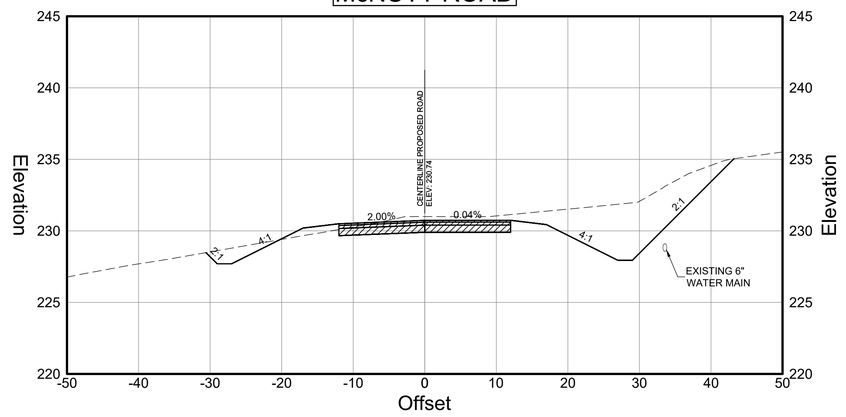

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DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

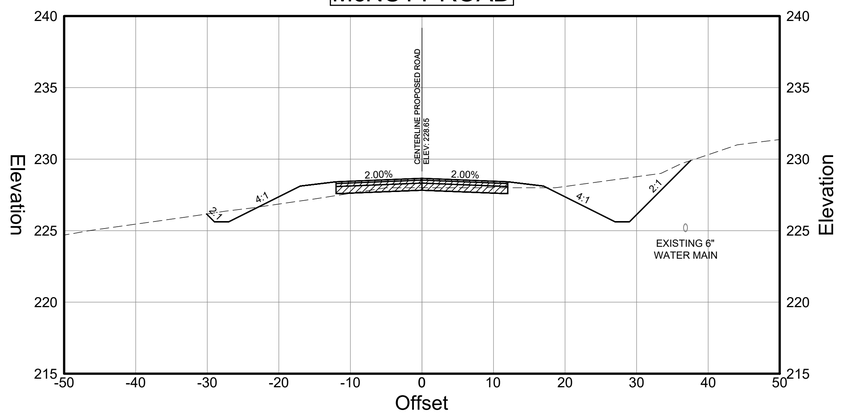
CROSS SECTIONS

McNutt Road
60+50 to 63+00

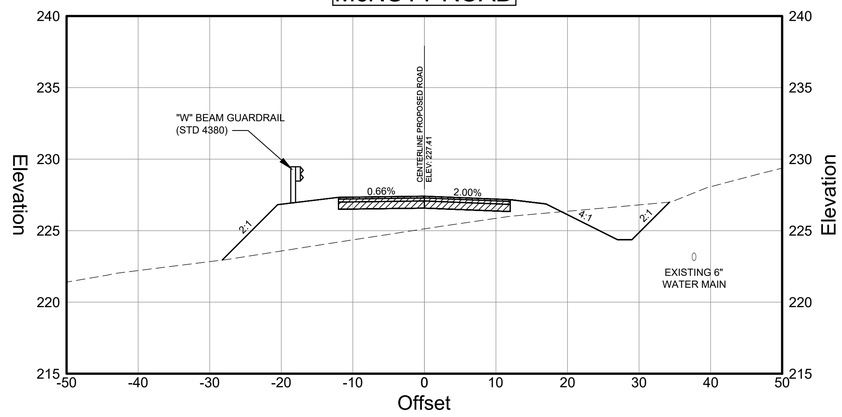
DRAWING NUMBER
23 - 0021

PROJECT: —

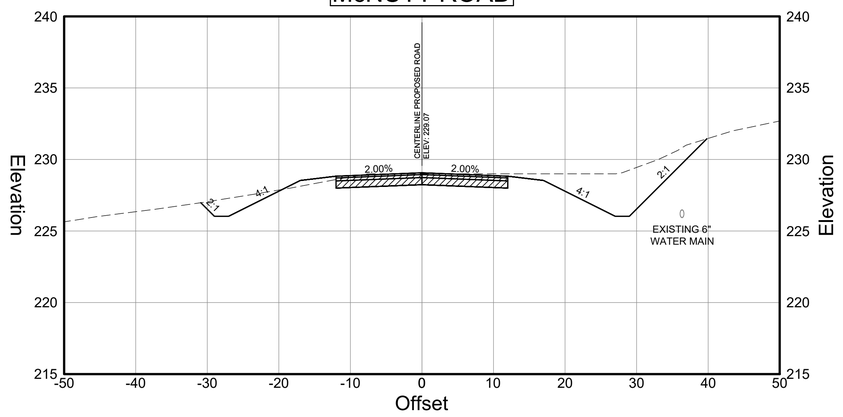
64+50.00 McNUTT ROAD



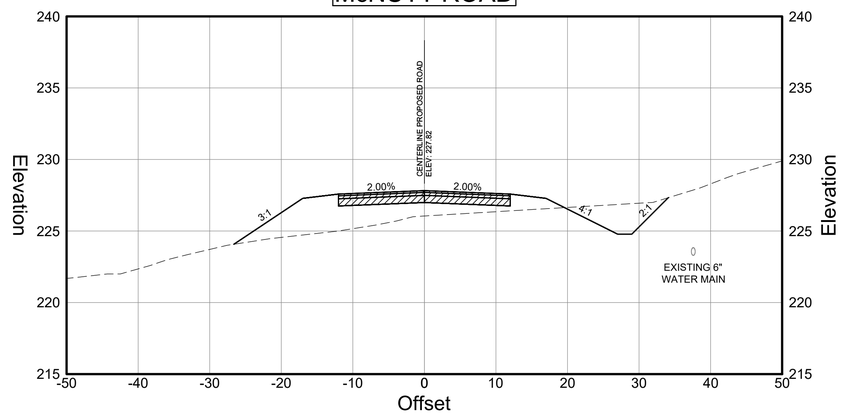
66+00.00 McNUTT ROAD



64+00.00 McNUTT ROAD



65+50.00 McNUTT ROAD



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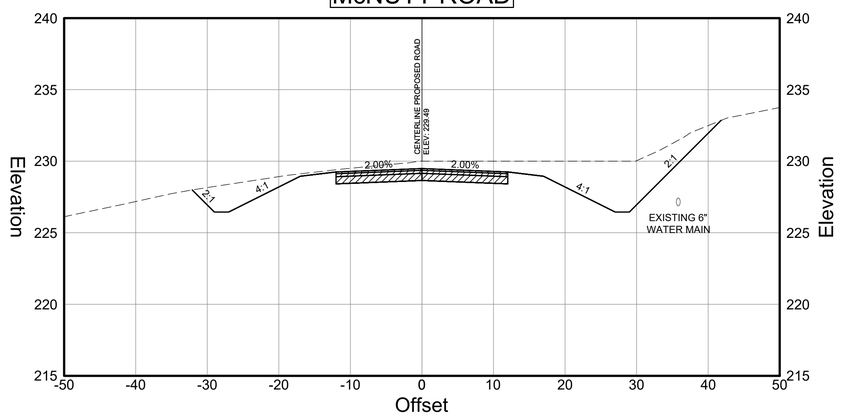
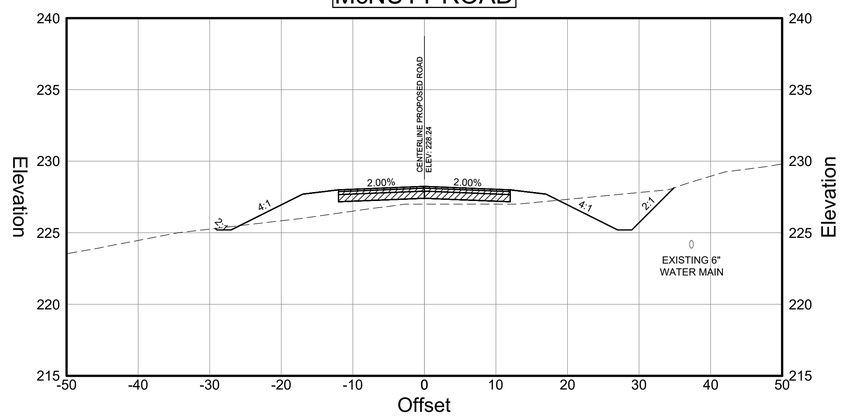


65+00.00 McNUTT ROAD



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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

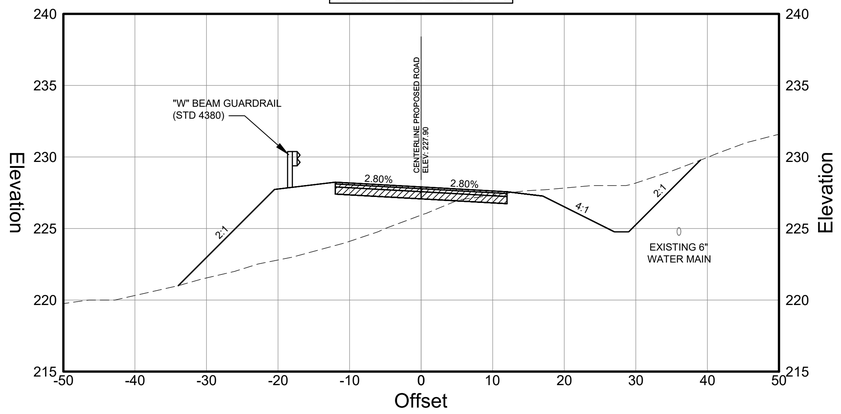
CROSS SECTIONS

McNutt Road
63+50 to 66+00

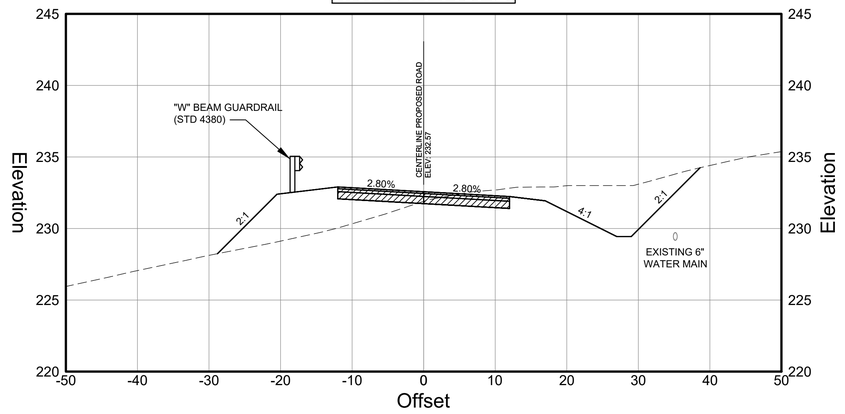
DRAWING NUMBER
23 - 0022

PROJECT: —

67+50.00 McNUTT ROAD



69+00.00 McNUTT ROAD



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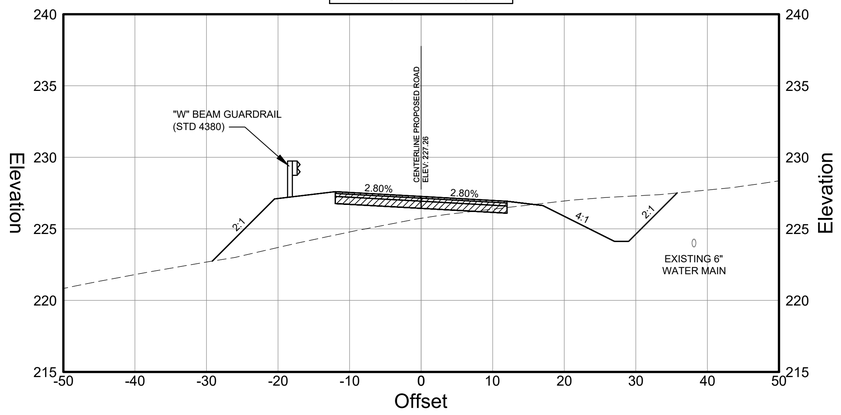
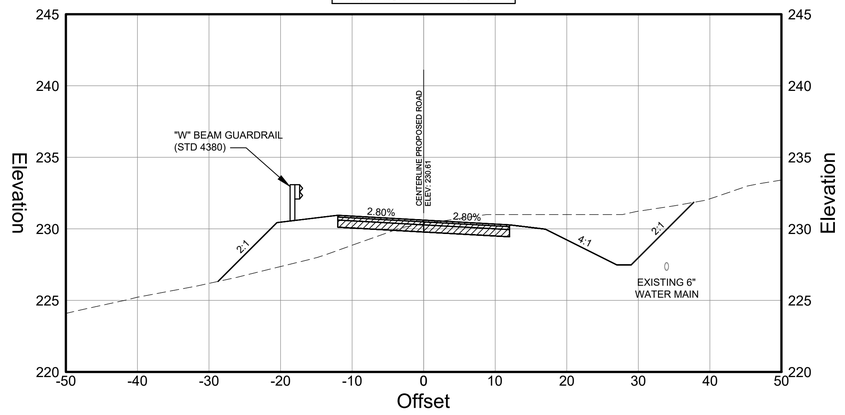
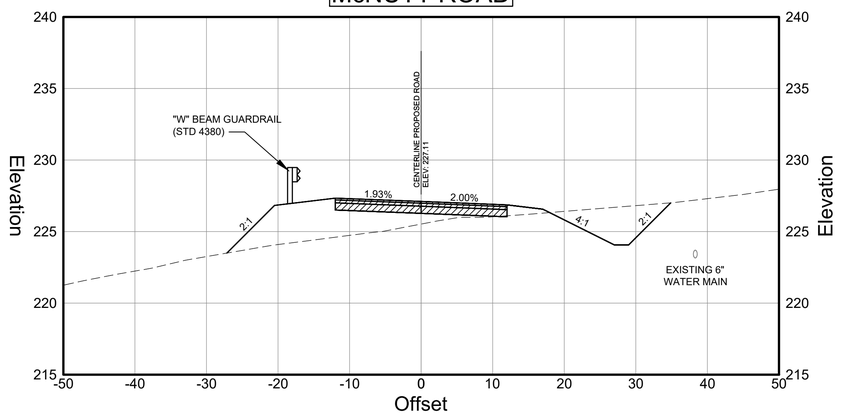


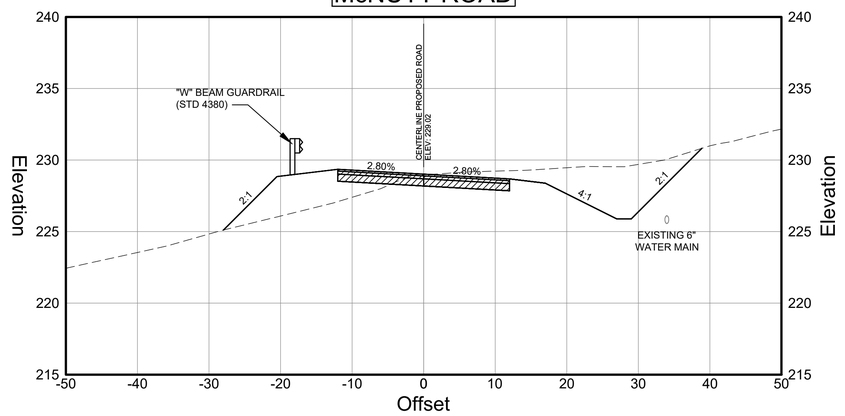
68+50.00 McNUTT ROAD



66+50.00 McNUTT ROAD



68+00.00 McNUTT ROAD



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CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

McNutt Road
66+50 to 69+00

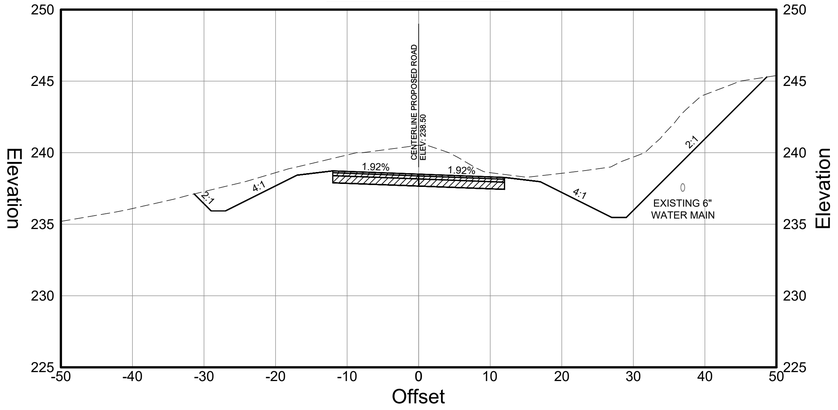
DRAWING NUMBER

23 - 0023

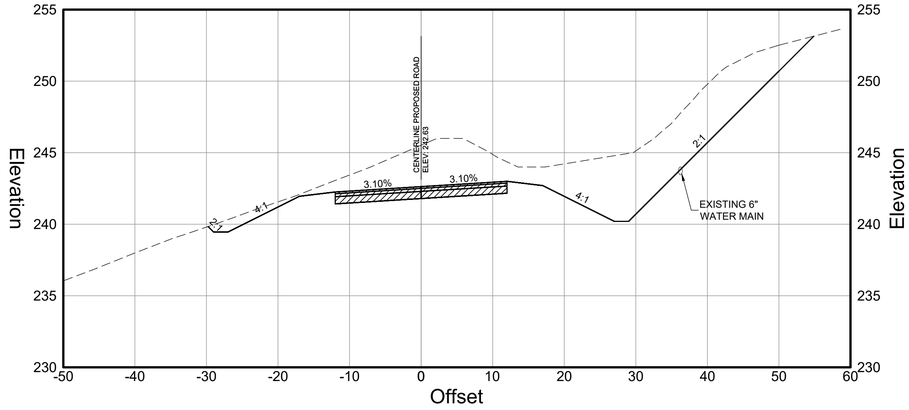
D:\Data\Projects\McNutt Road\Design\McNutt Road Cross Sections (10-2-19).dwg, 5/27/2021 2:59:25 PM

PROJECT: —

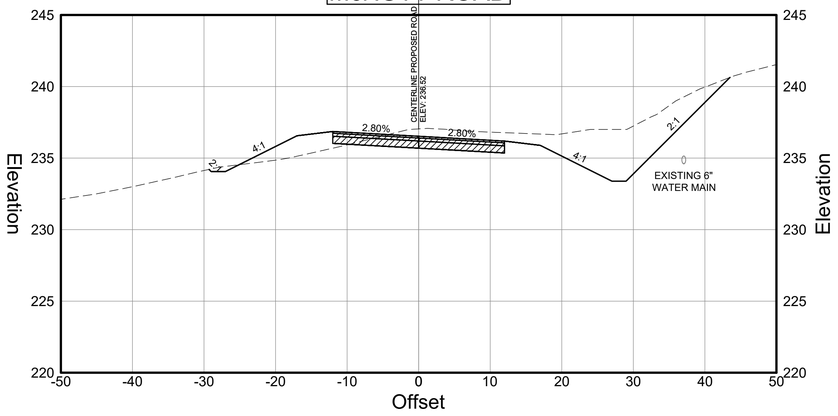
70+50.00 McNUTT ROAD



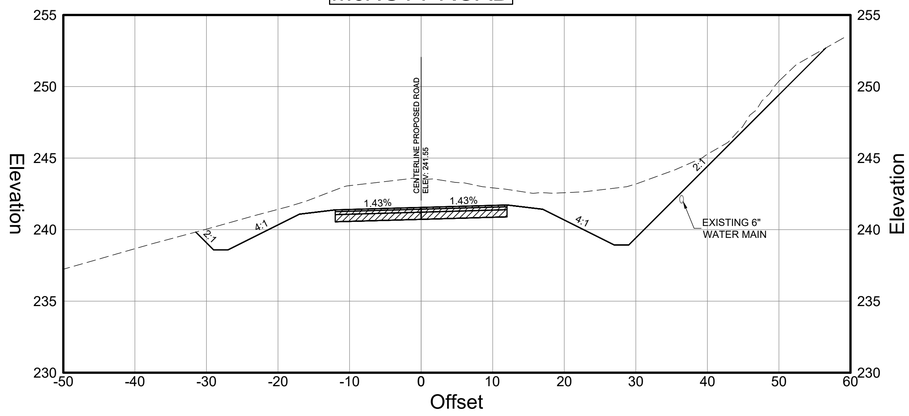
72+00.00 McNUTT ROAD



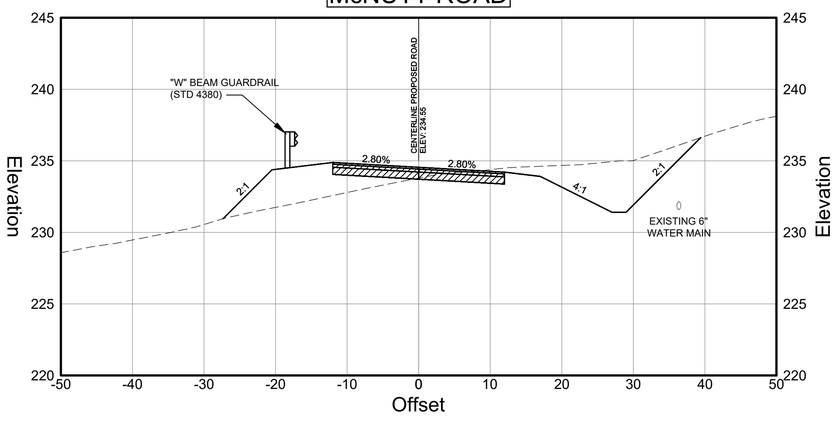
70+00.00 McNUTT ROAD



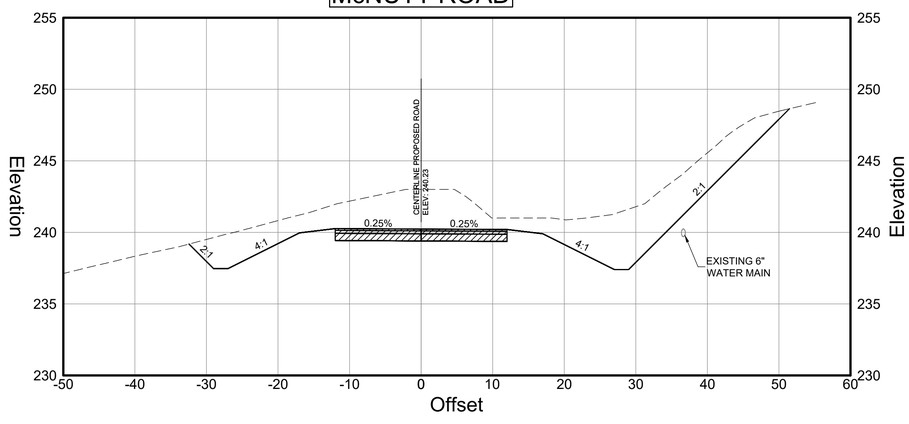
71+50.00 McNUTT ROAD



69+50.00 McNUTT ROAD



71+00.00 McNUTT ROAD



GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

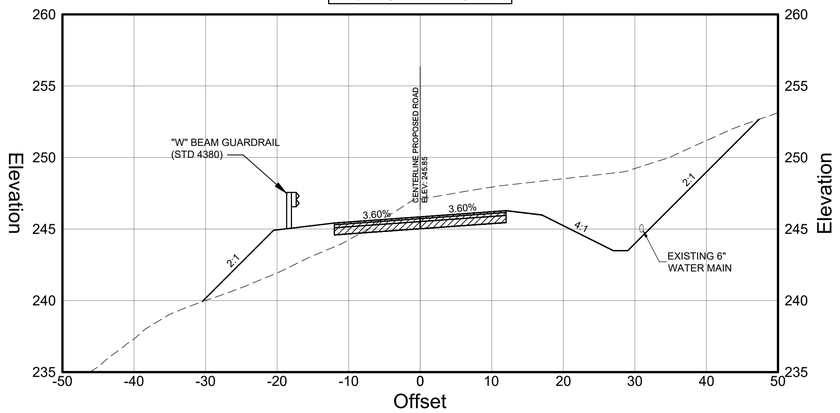
McNutt Road
69+50 to 72+00

DRAWING NUMBER
23 - 0024

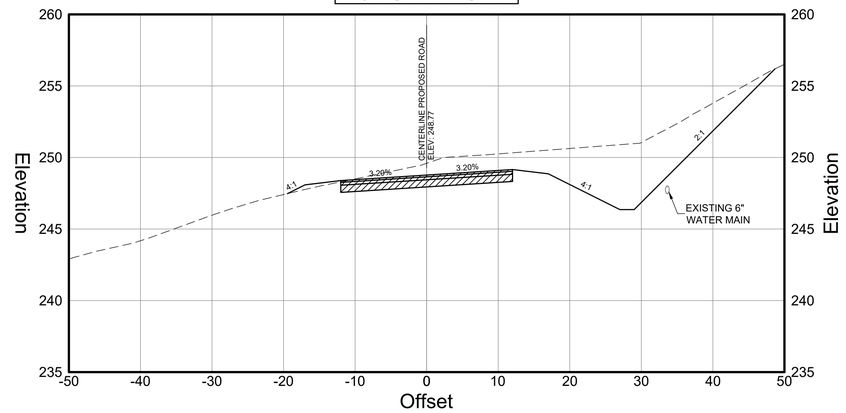
D:\Data\Projects\McNutt Road\Design\McNutt Road Cross Sections (10-2-19).dwg, 5/27/2021 3:00:04 PM

PROJECT: —

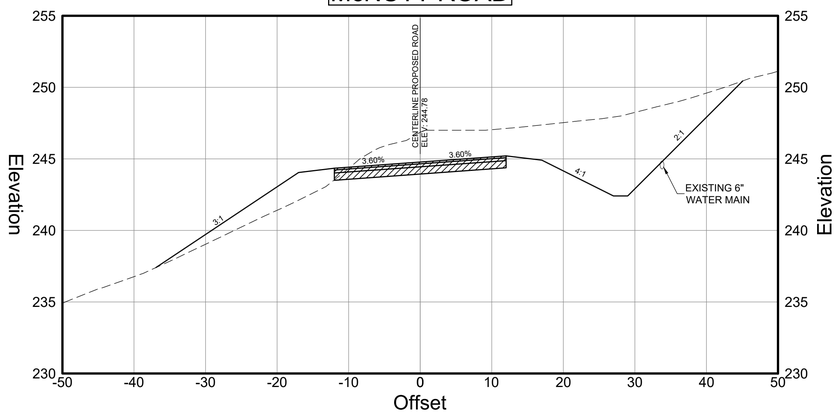
73+50.00 McNUTT ROAD



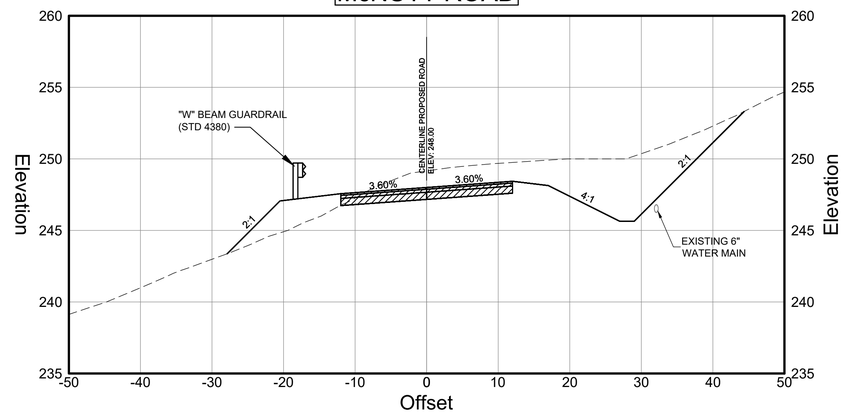
75+00.00 McNUTT ROAD



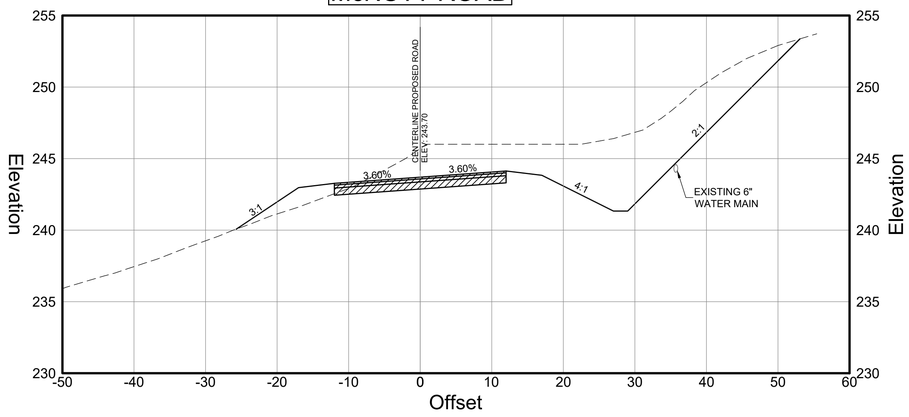
73+00.00 McNUTT ROAD



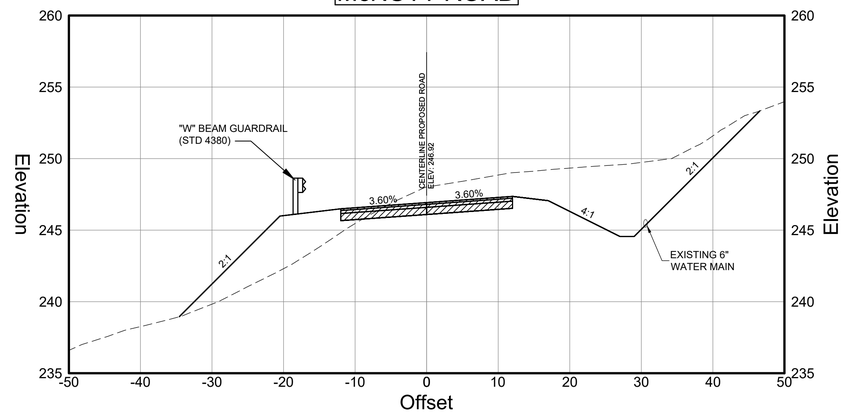
74+50.00 McNUTT ROAD



72+50.00 McNUTT ROAD



74+00.00 McNUTT ROAD



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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

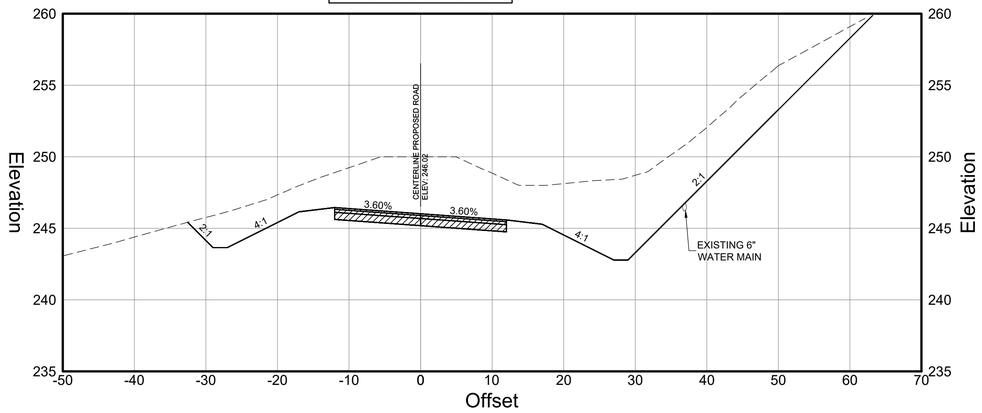
McNutt Road
72+50 to 75+00

DRAWING NUMBER
23 - 0025

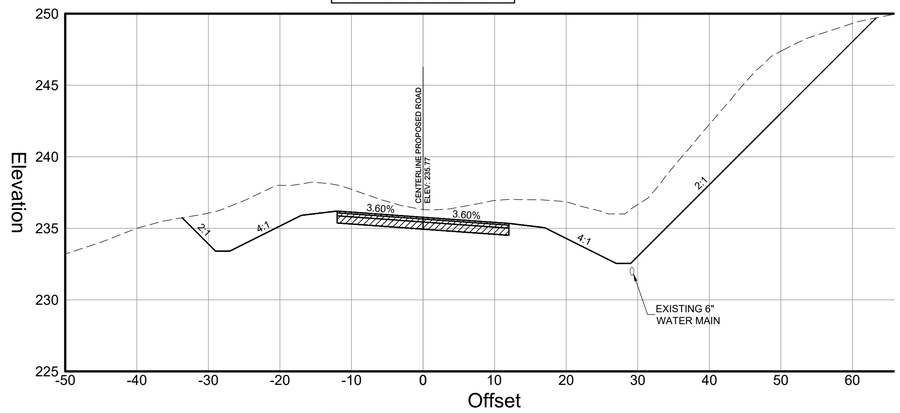
D:\Data\Projects\McNutt Road\Design\McNutt Road Cross Sections (10-2-19).dwg, 5/27/2021 3:00:40 PM

PROJECT: —

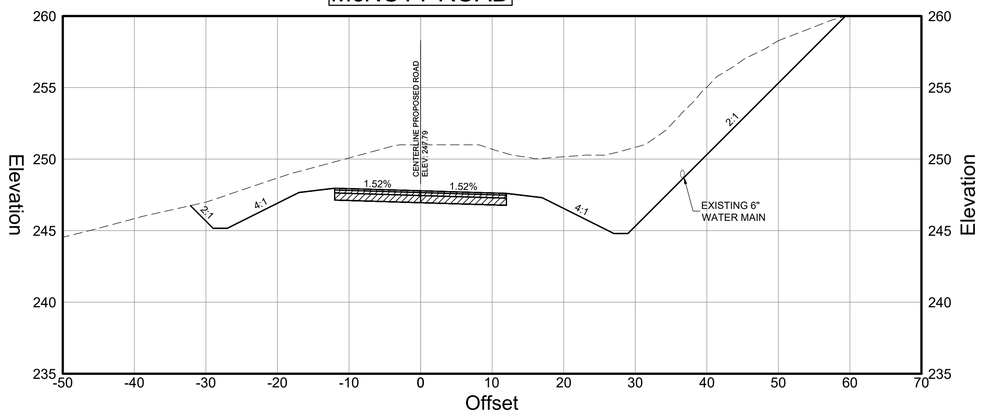
76+50.00 McNUTT ROAD



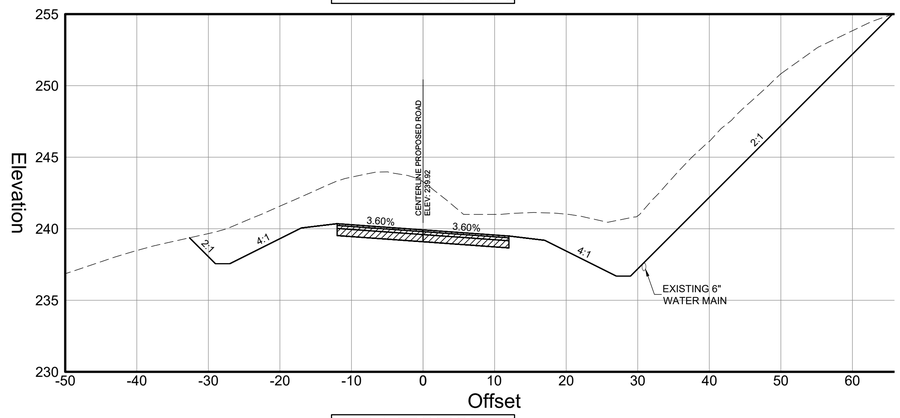
78+00.00 McNUTT ROAD



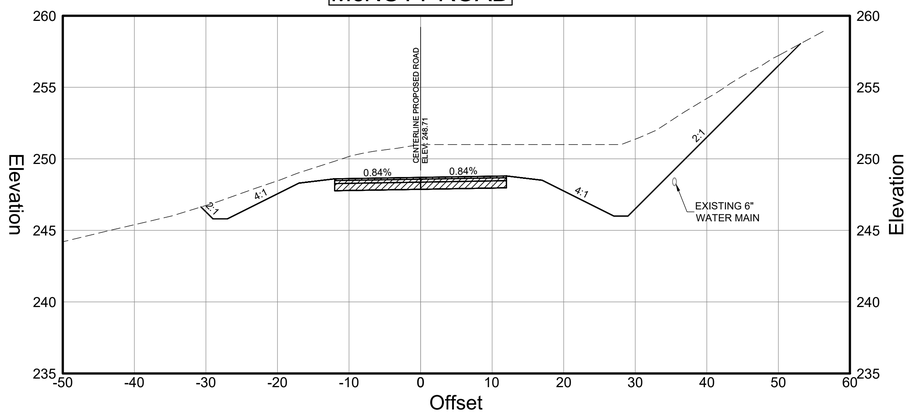
76+00.00 McNUTT ROAD



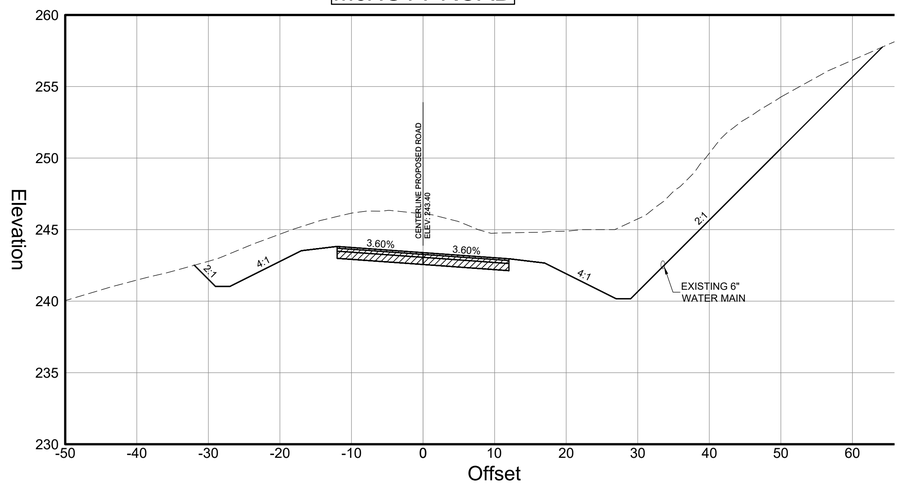
77+50.00 McNUTT ROAD



75+50.00 McNUTT ROAD



77+00.00 McNUTT ROAD



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Augusta Georgia

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

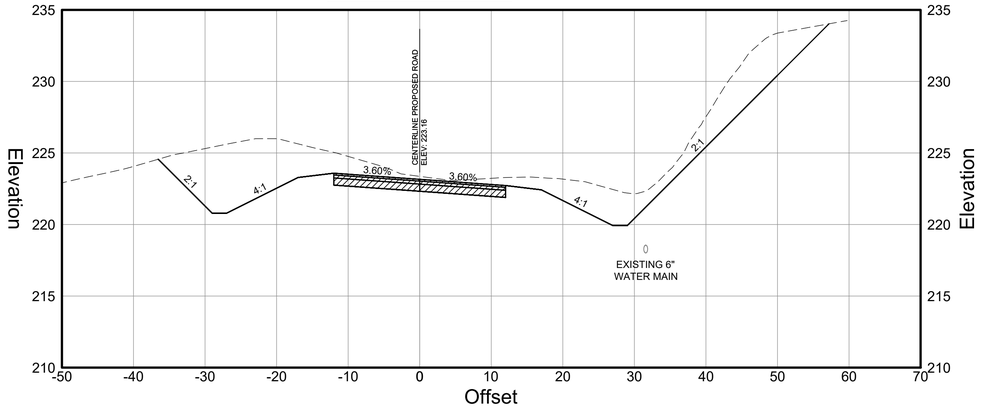
CROSS SECTIONS

McNutt Road
75+50 to 78+00

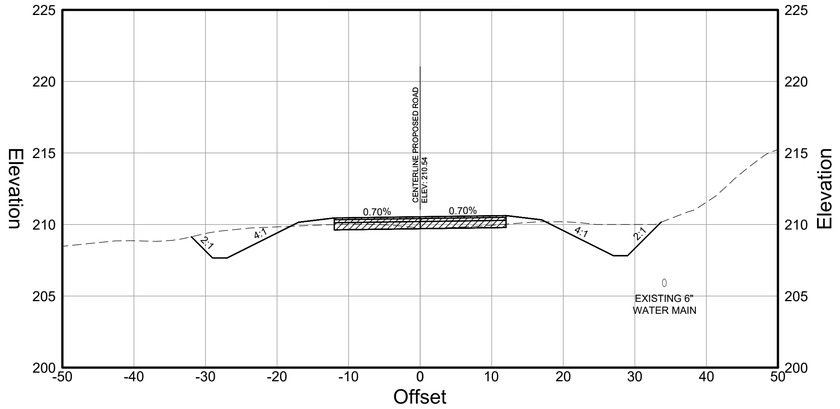
DRAWING NUMBER
23 - 0026

PROJECT: —

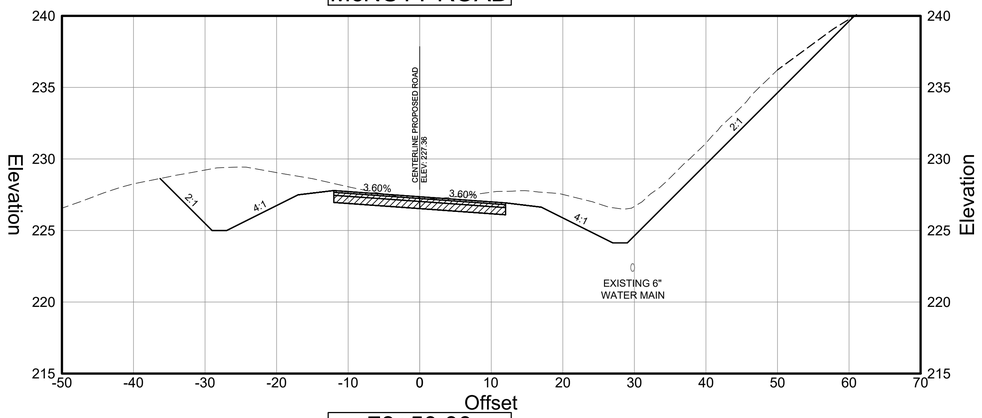
79+50.00 McNUTT ROAD



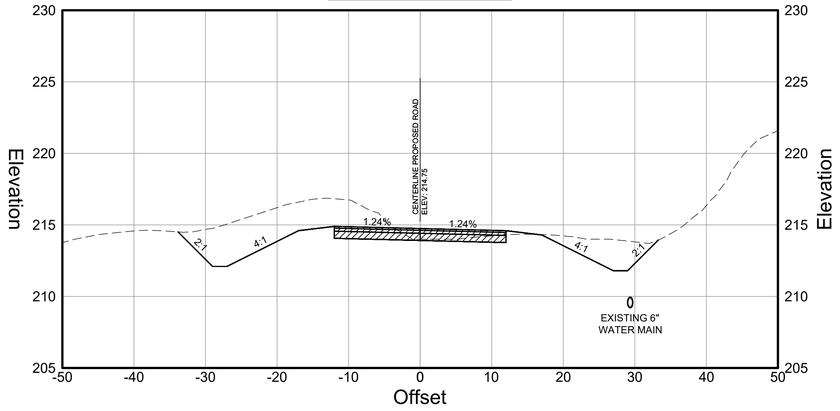
81+00.00 McNUTT ROAD



79+00.00 McNUTT ROAD



80+50.00 McNUTT ROAD



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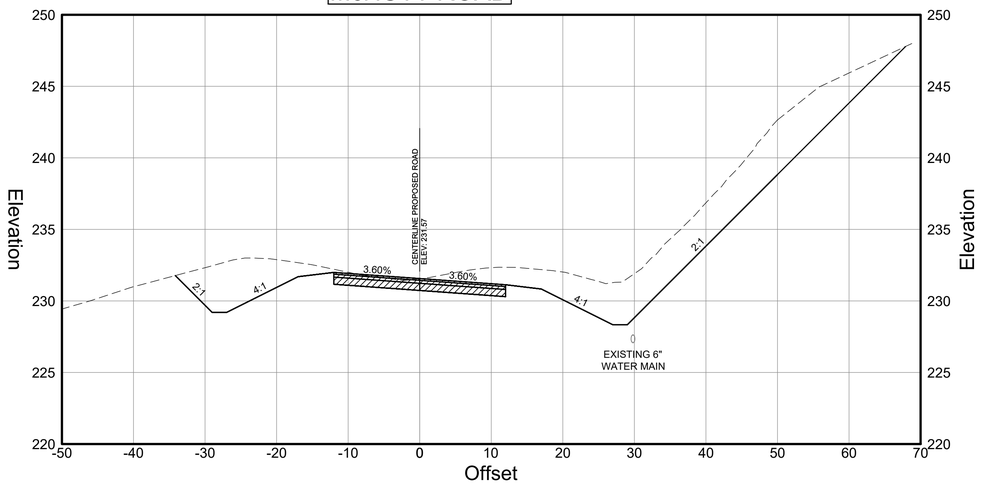
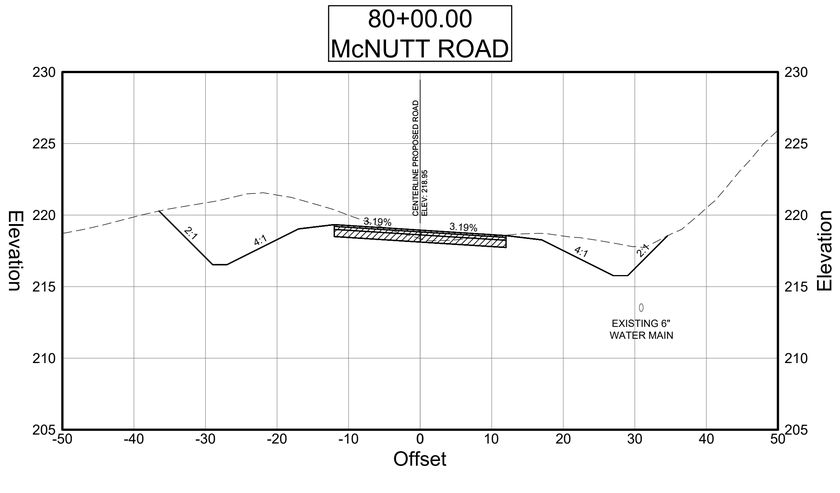


80+00.00 McNUTT ROAD



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DESIGNED BY	NAA	01-24-20
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CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

McNutt Road
78+50 to 81+00

DRAWING NUMBER
23 - 0027

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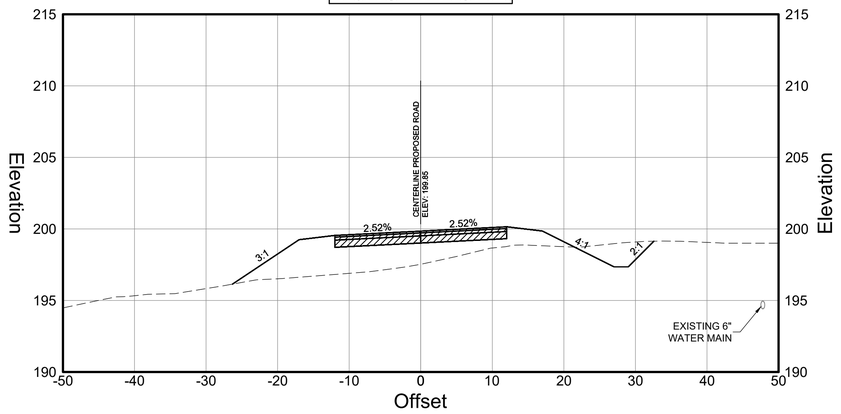
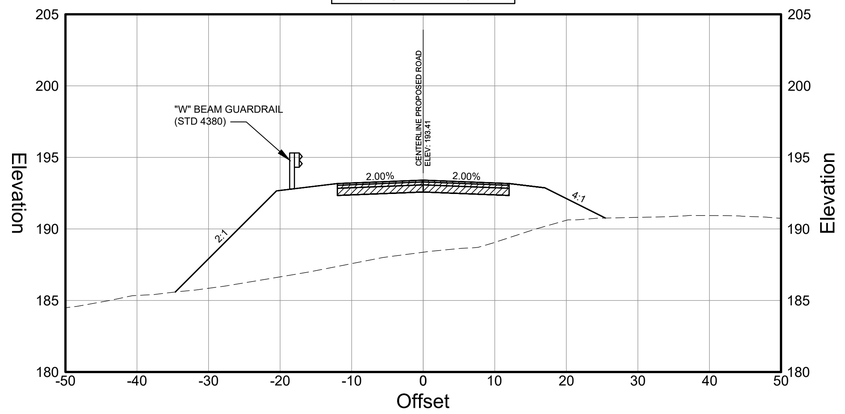
PROJECT: —

82+50.00 McNUTT ROAD



84+00.00 McNUTT ROAD



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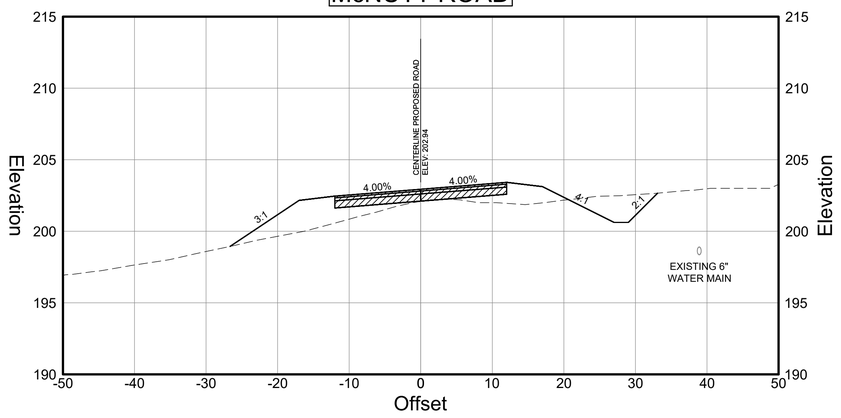
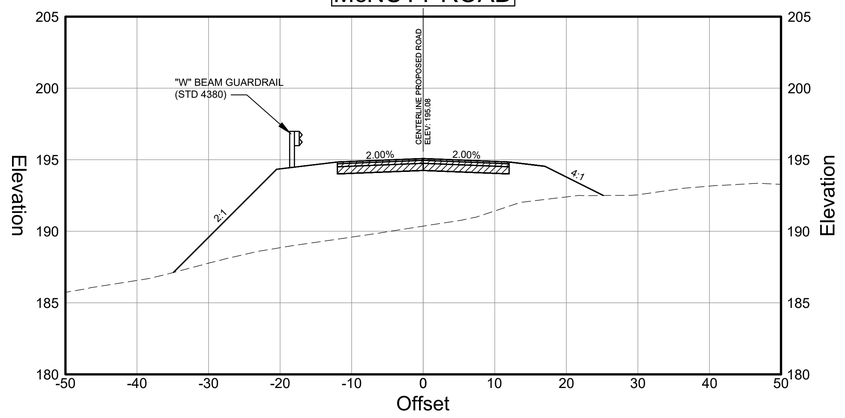
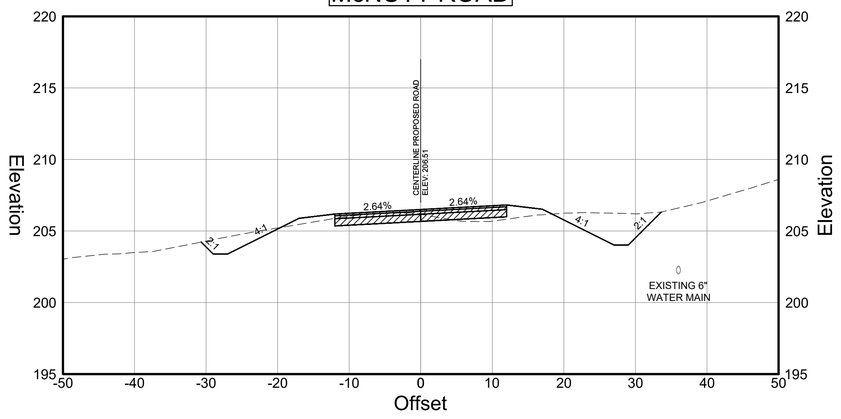


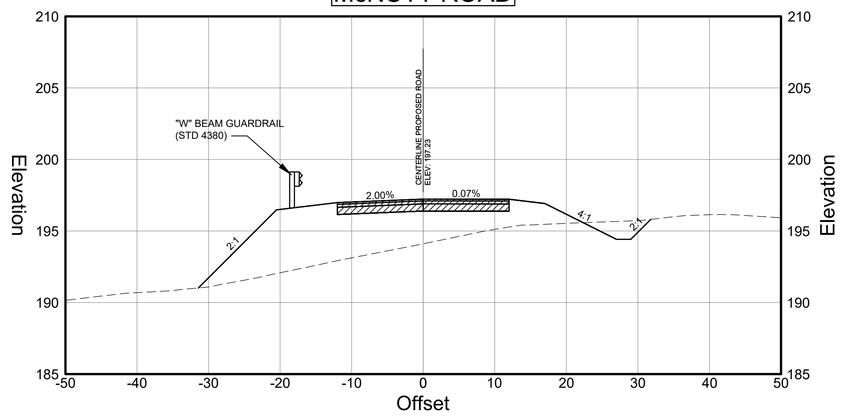
83+50.00 McNUTT ROAD



81+50.00 McNUTT ROAD



83+00.00 McNUTT ROAD



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Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

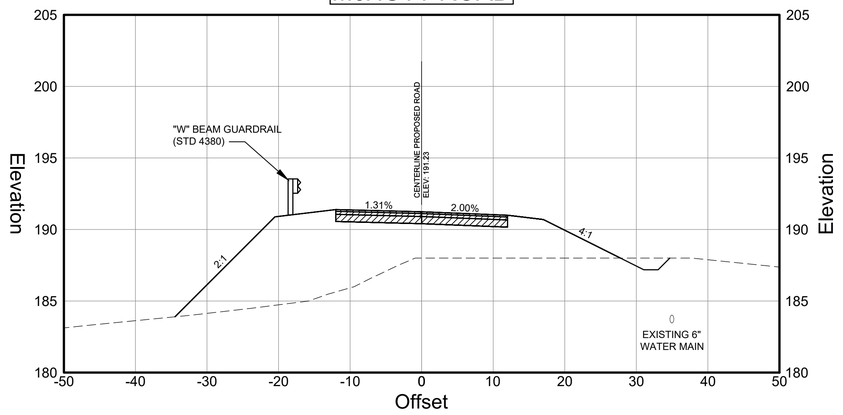
McNutt Road
81+50 to 84+00

DRAWING NUMBER
23 - 0028

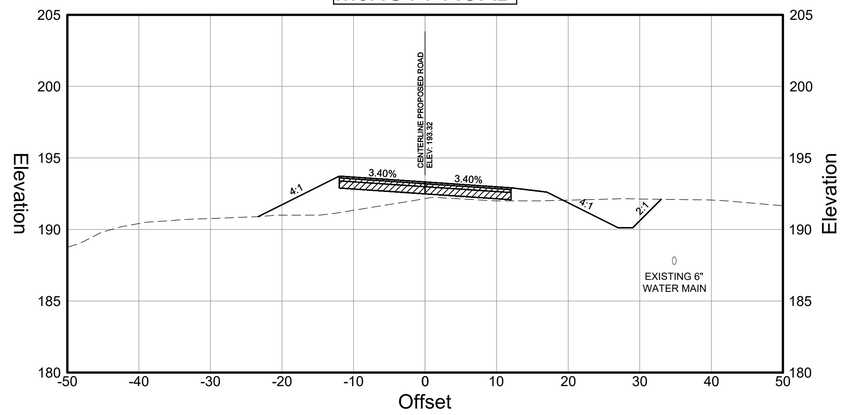
D:\Data\Projects\McNutt Road\Design\McNutt Road Cross Sections (10-2-19).dwg, 5/27/2021 3:02:30 PM

PROJECT: —

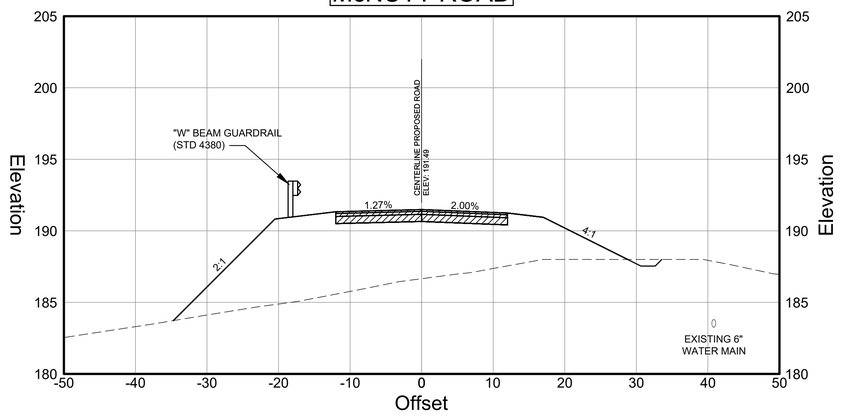
85+50.00 McNUTT ROAD



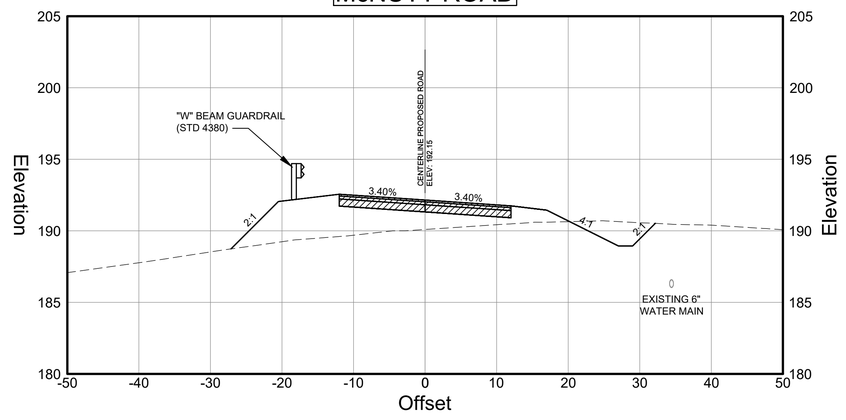
87+00.00 McNUTT ROAD



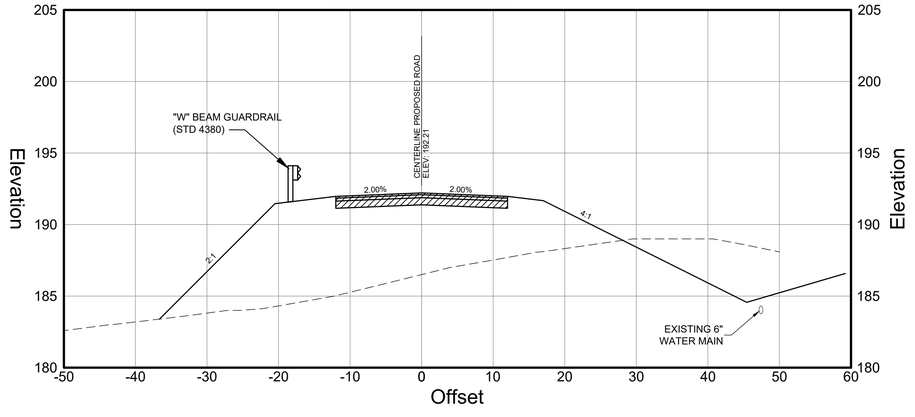
85+00.00 McNUTT ROAD



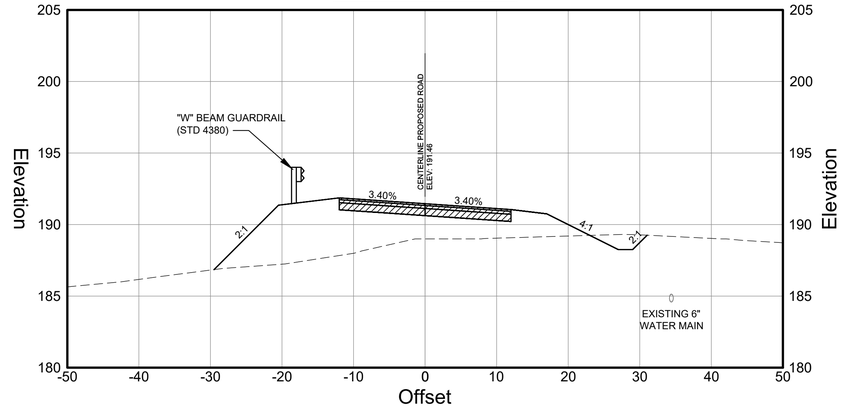
86+50.00 McNUTT ROAD



84+50.00 McNUTT ROAD



86+00.00 McNUTT ROAD



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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

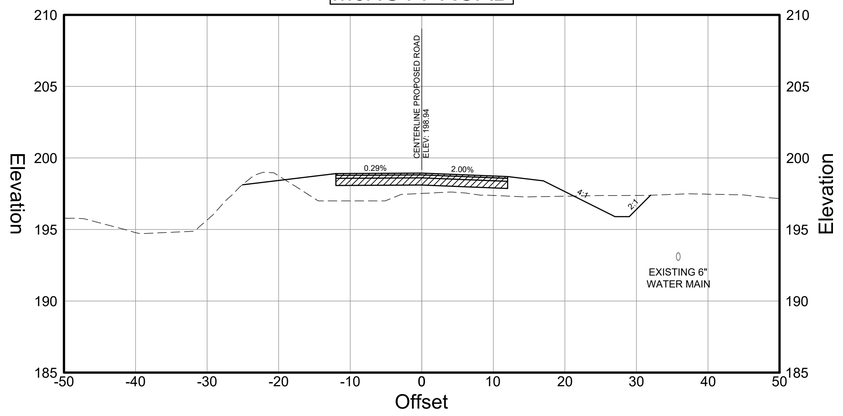
McNutt Road
84+50 to 87+00

DRAWING NUMBER

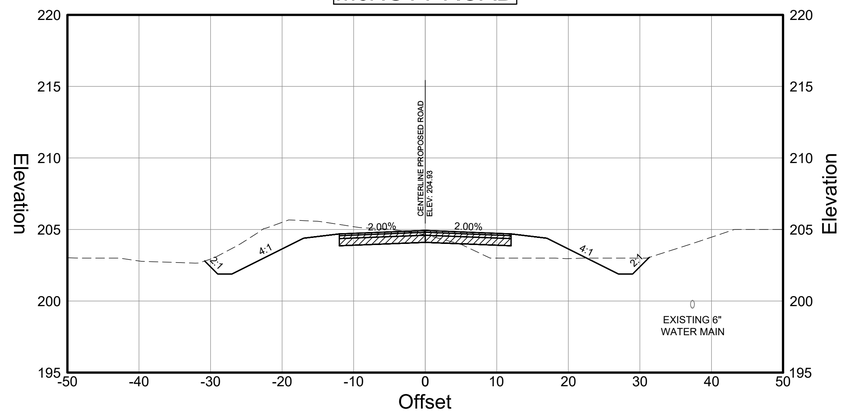
23 - 0029

PROJECT: —

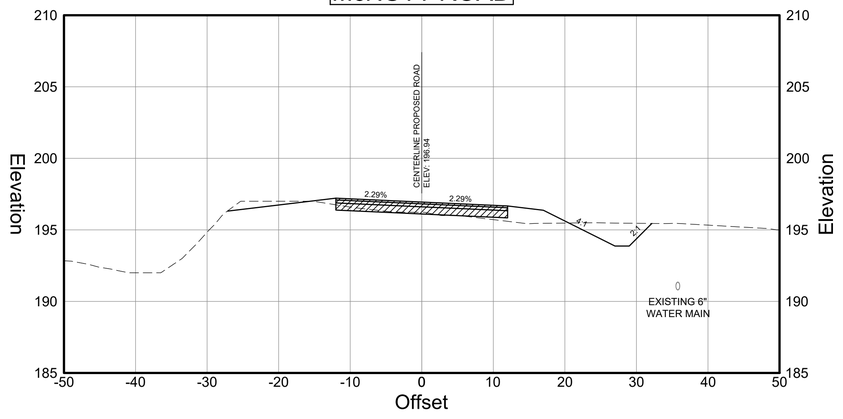
88+50.00 McNUTT ROAD



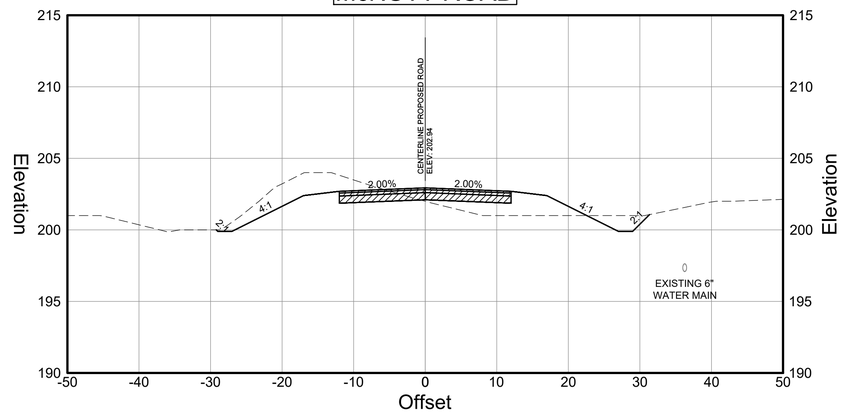
90+00.00 McNUTT ROAD



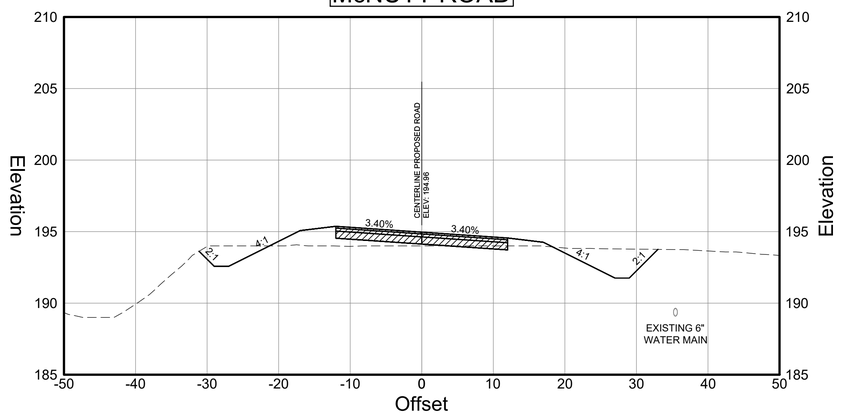
88+00.00 McNUTT ROAD



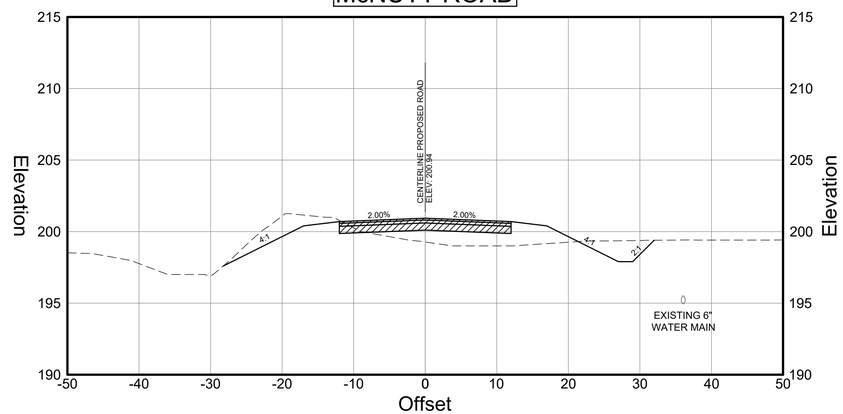
89+50.00 McNUTT ROAD



87+50.00 McNUTT ROAD



89+00.00 McNUTT ROAD



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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

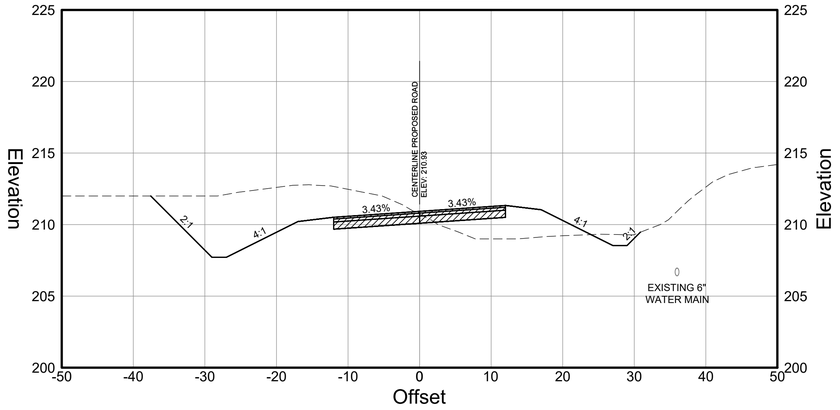
CROSS SECTIONS

McNutt Road
87+50 to 90+00

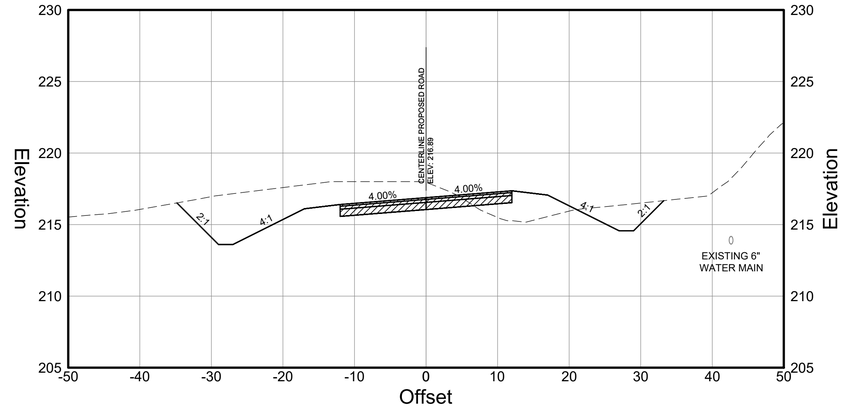
DRAWING NUMBER
23 - 0030

PROJECT: —

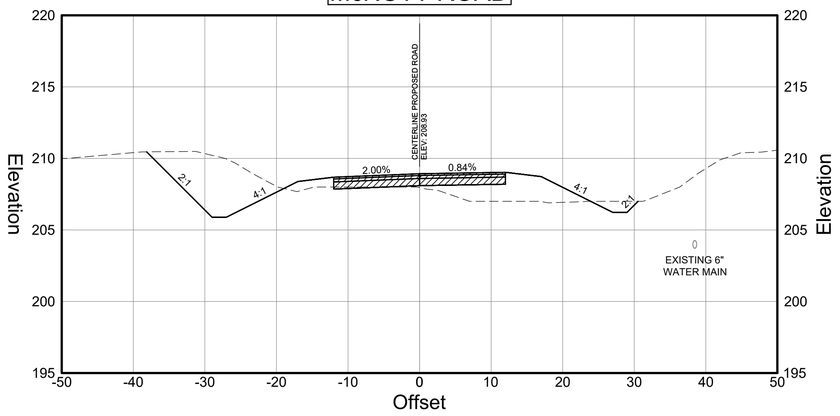
91+50.00 McNUTT ROAD



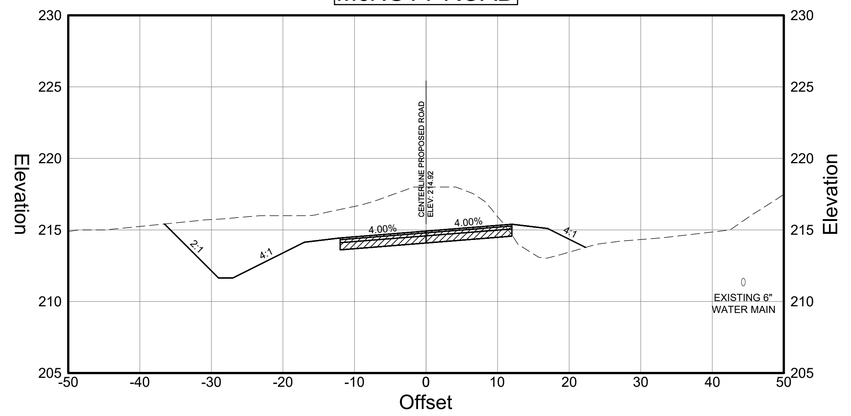
93+00.00 McNUTT ROAD



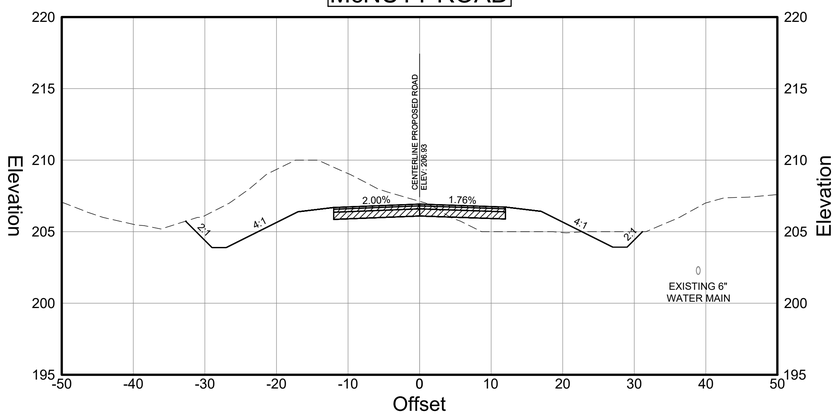
91+00.00 McNUTT ROAD



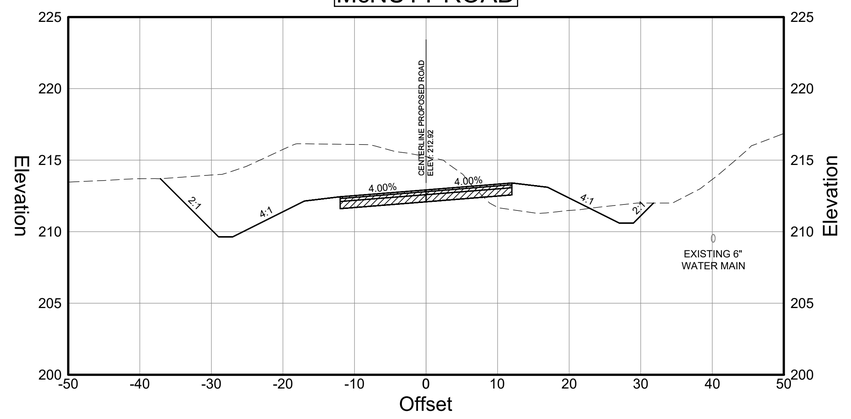
92+50.00 McNUTT ROAD



90+50.00 McNUTT ROAD



92+00.00 McNUTT ROAD



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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

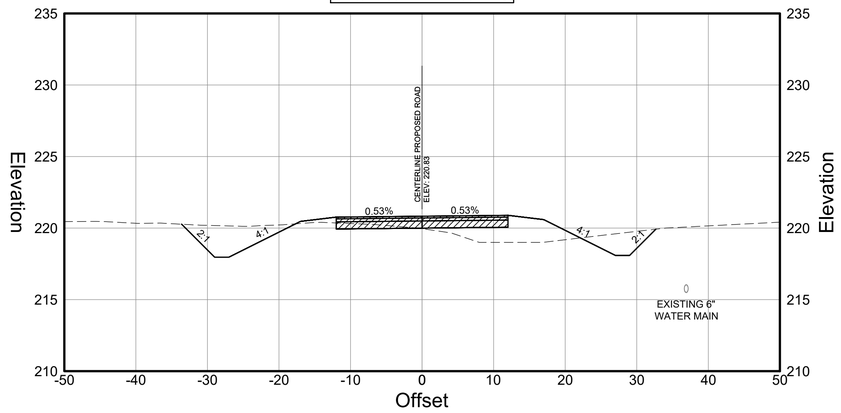
McNutt Road
90+50 to 93+00

DRAWING NUMBER

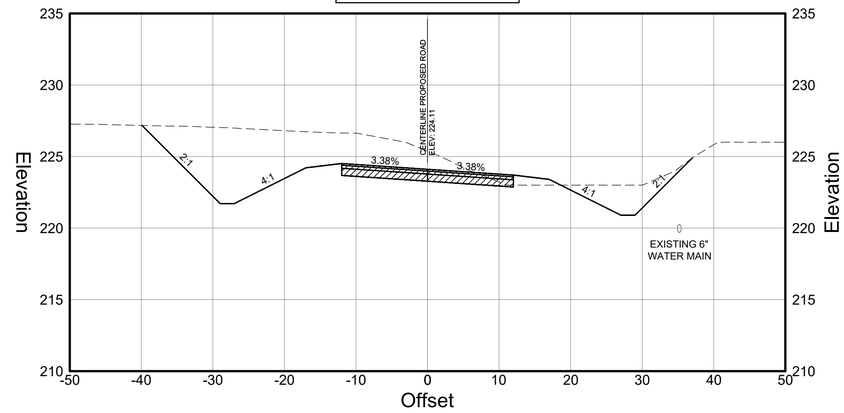
23 - 0031

PROJECT: —

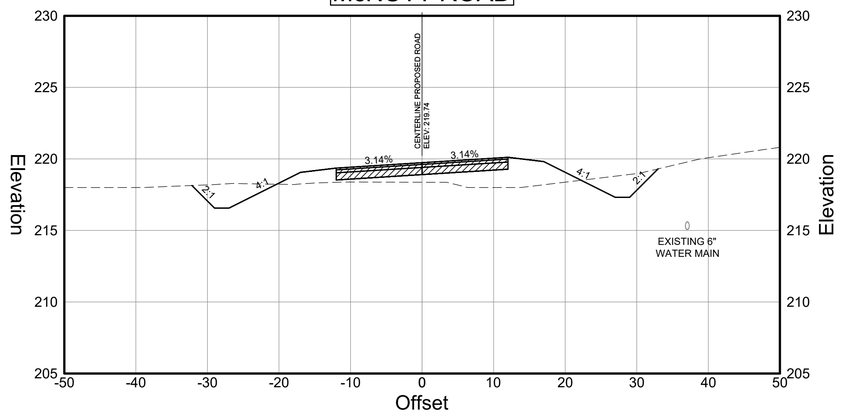
94+50.00 McNUTT ROAD



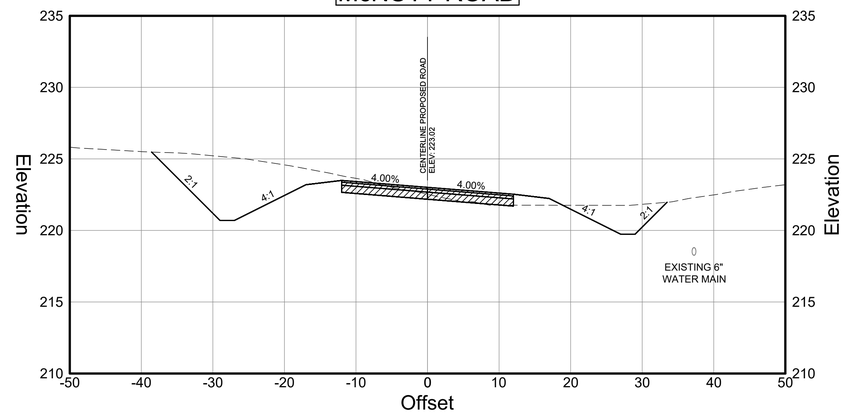
96+00.00 McNUTT ROAD



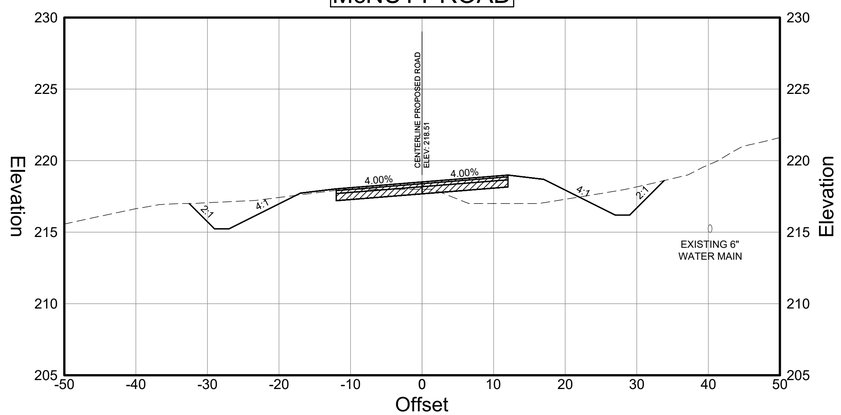
94+00.00 McNUTT ROAD



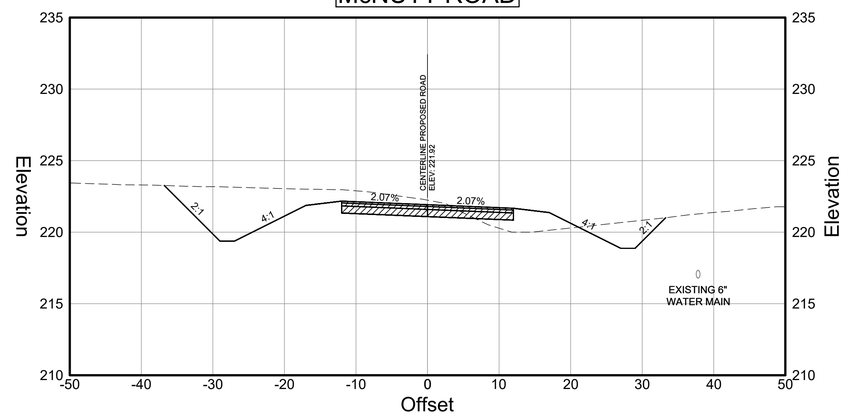
95+50.00 McNUTT ROAD



93+50.00 McNUTT ROAD



95+00.00 McNUTT ROAD



GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'

MORELAND ALTOBELLI — AN ATLAS COMPANY —
Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

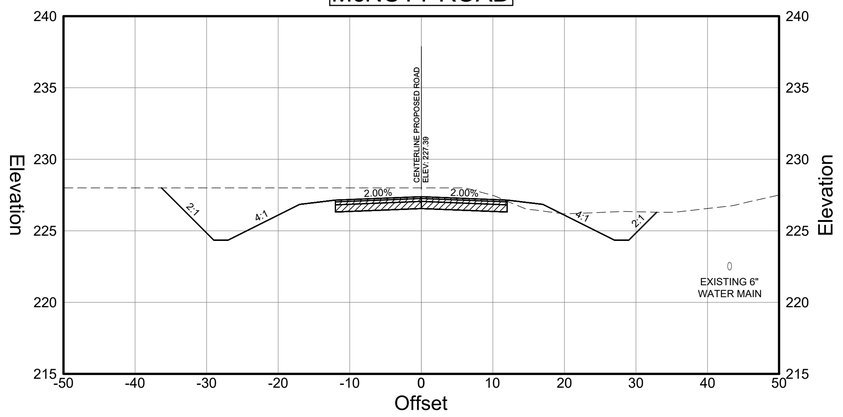
CROSS SECTIONS

McNutt Road
93+50 to 96+00

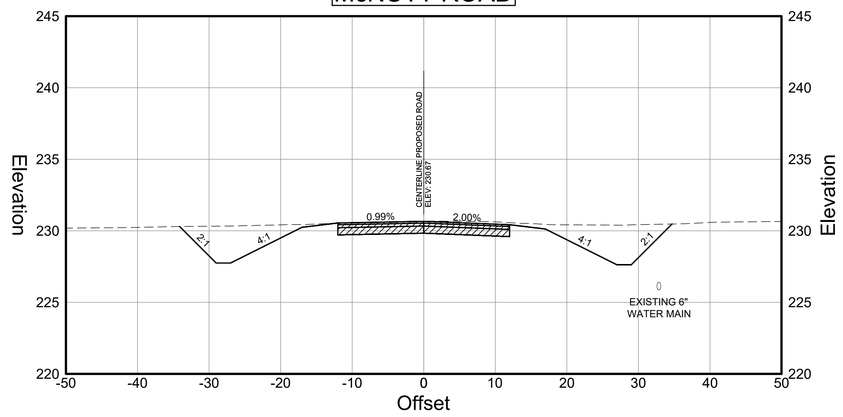
DRAWING NUMBER
23 - 0032

PROJECT: —

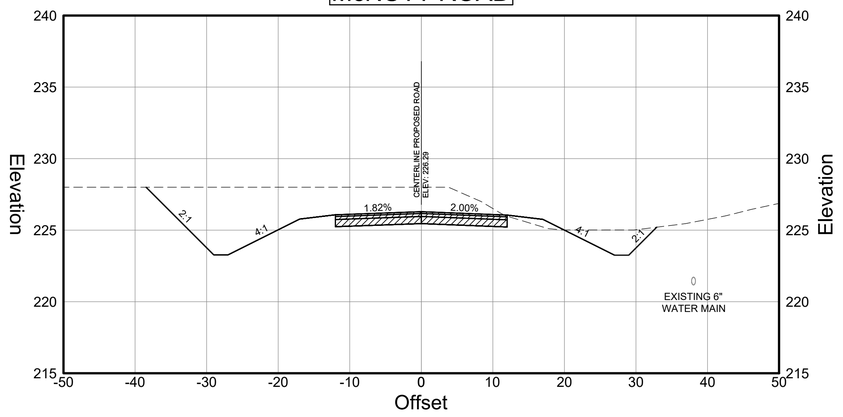
97+50.00 McNUTT ROAD



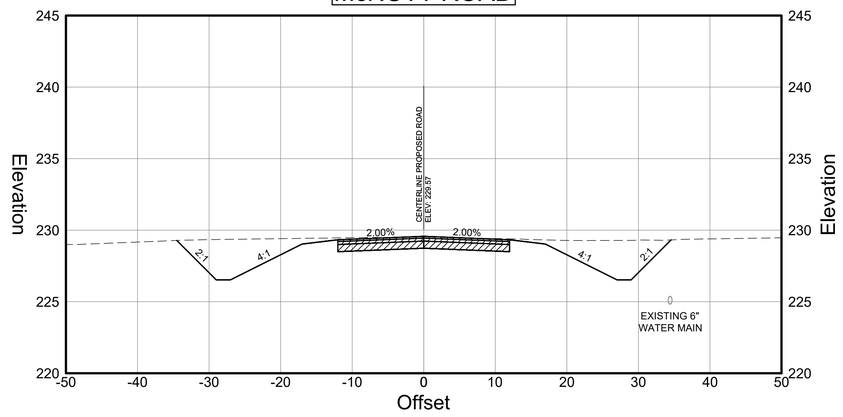
99+00.00 McNUTT ROAD



97+00.00 McNUTT ROAD



98+50.00 McNUTT ROAD



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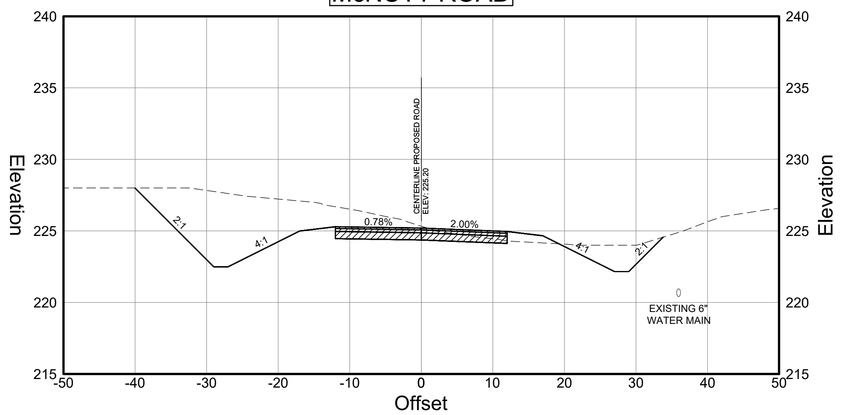
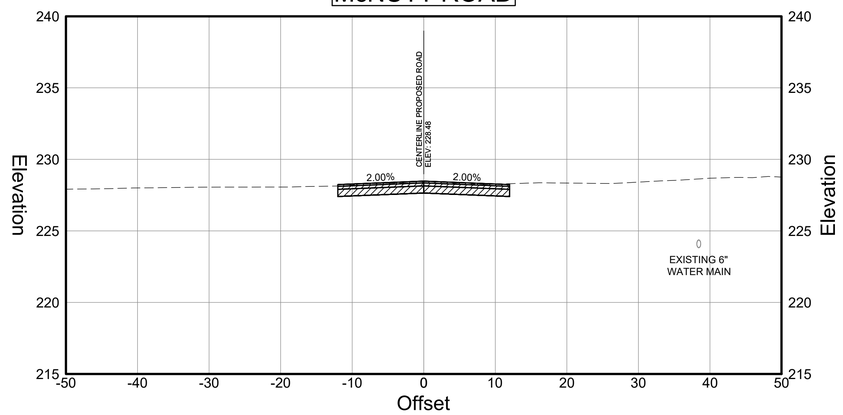


98+00.00 McNUTT ROAD



GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

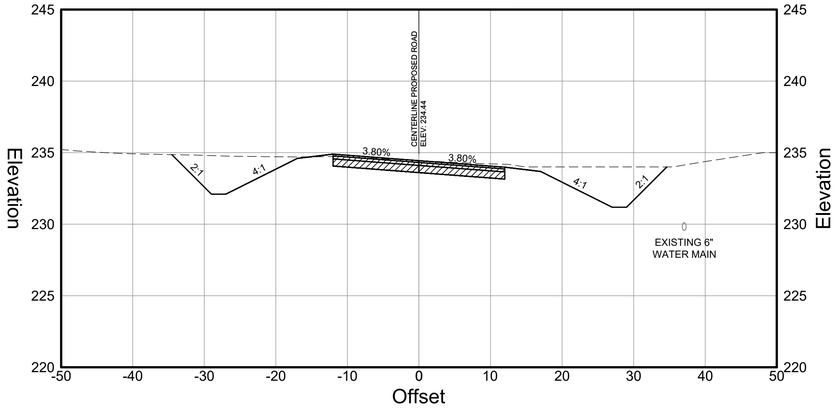
McNutt Road
96+50 to 99+00

DRAWING NUMBER
23 - 0033

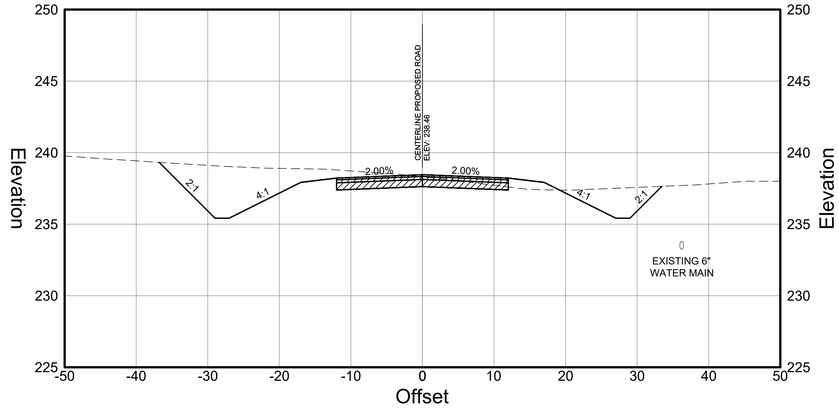
D:\Data\Projects\McNutt Road\Design\McNutt Road Cross Sections (10-2-19).dwg, 5/27/2021 3:05:36 PM

PROJECT: —

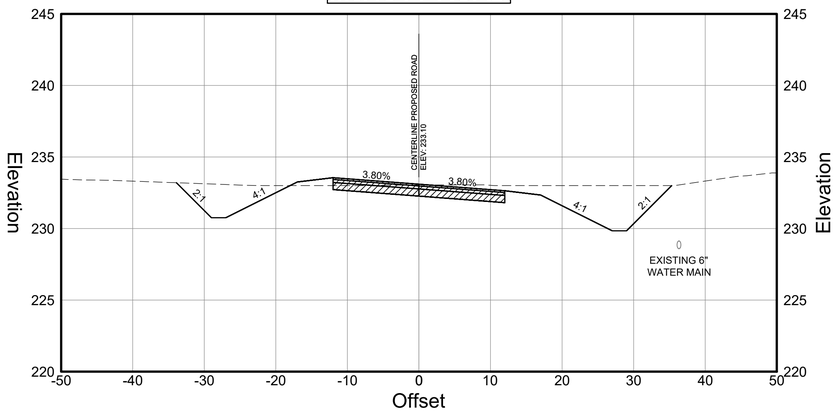
100+50.00 McNUTT ROAD



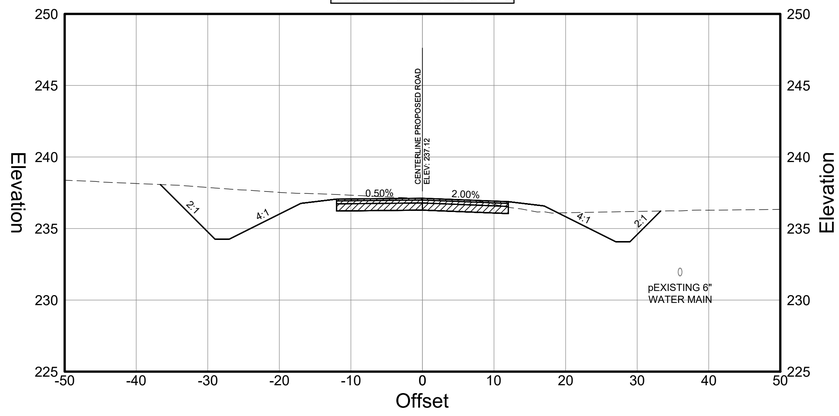
102+00.00 McNUTT ROAD



100+00.00 McNUTT ROAD



101+50.00 McNUTT ROAD



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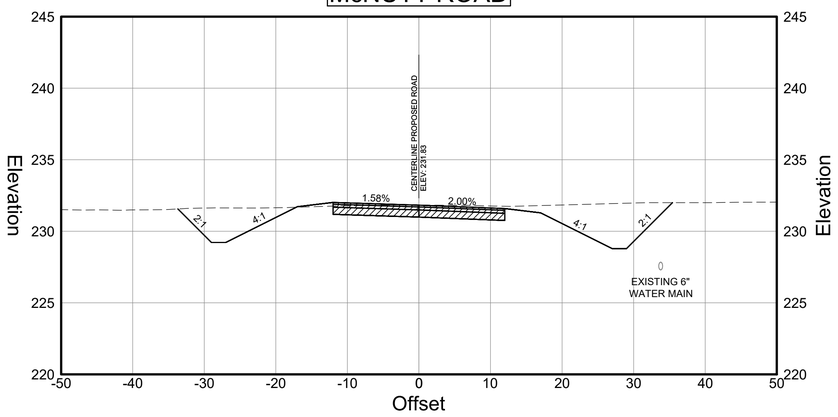
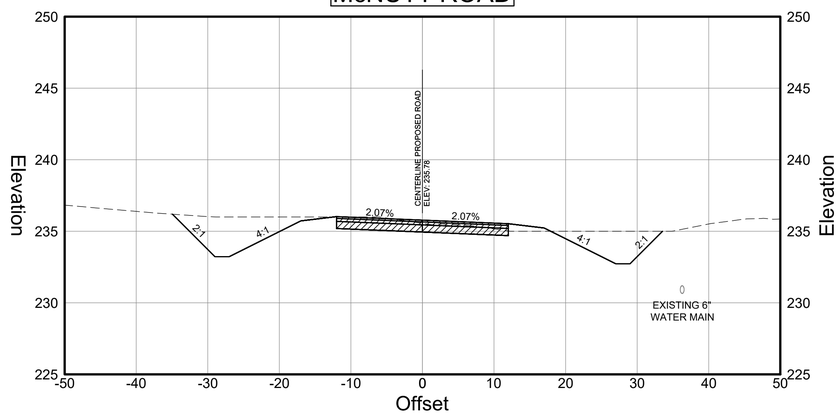


101+00.00 McNUTT ROAD



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DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

McNutt Road
99+50 to 102+00

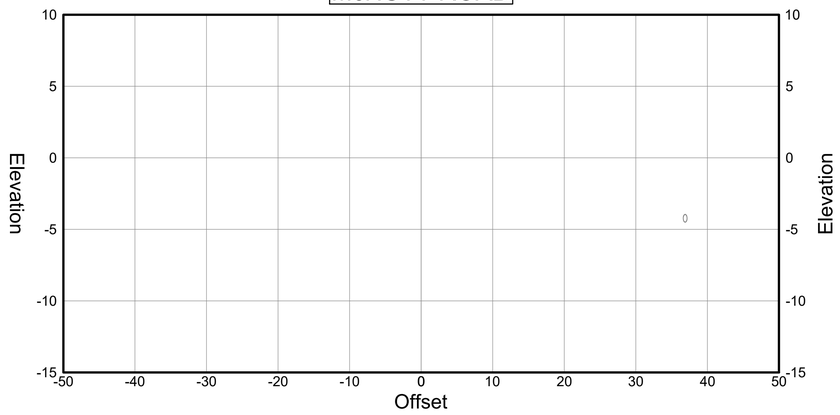
DRAWING NUMBER

23 - 0034

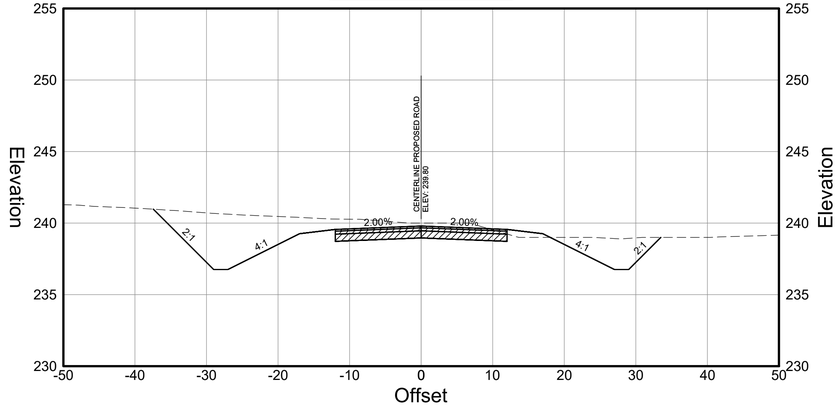
D:\Data\Projects\McNutt Road\Design\McNutt Road Cross Sections (10-2-19).dwg, 5/27/2021 3:06:15 PM

PROJECT: —

103+00.00
McNUTT ROAD



102+50.00
McNUTT ROAD



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327 Dahlonega Street
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DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta Georgia

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

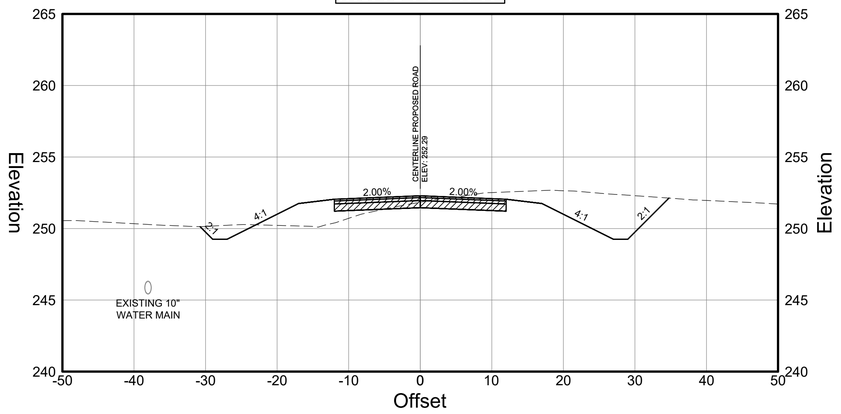
CROSS SECTIONS

McNutt Road
102+50 to 103+00

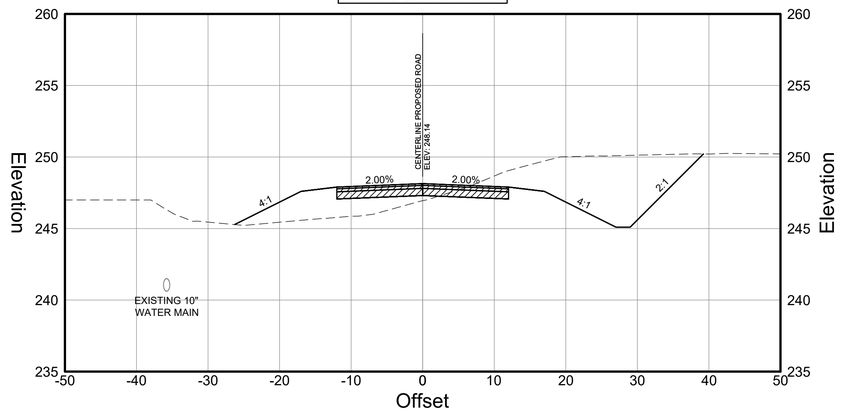
DRAWING NUMBER
23 - 0035

PROJECT: —

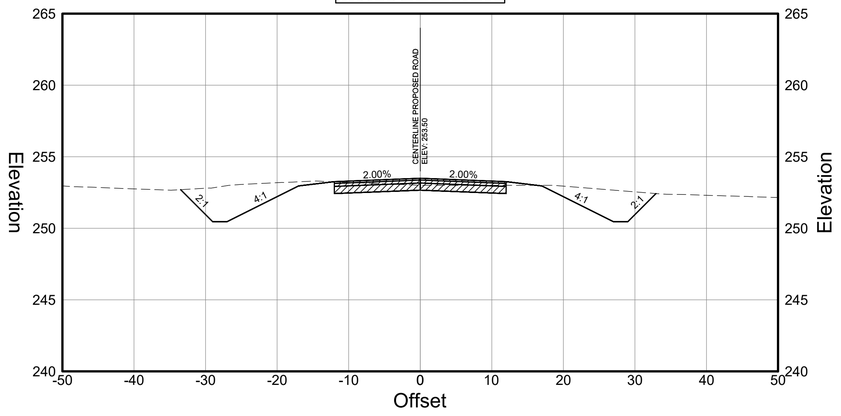
1+50.00 McNUTT WAY



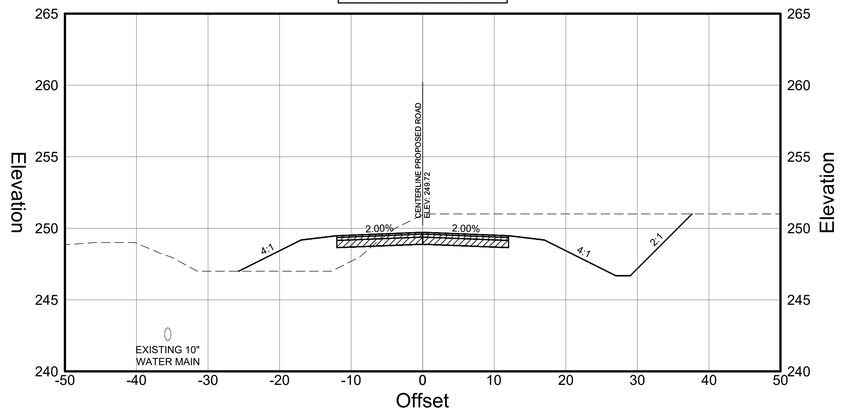
3+00.00 McNUTT WAY



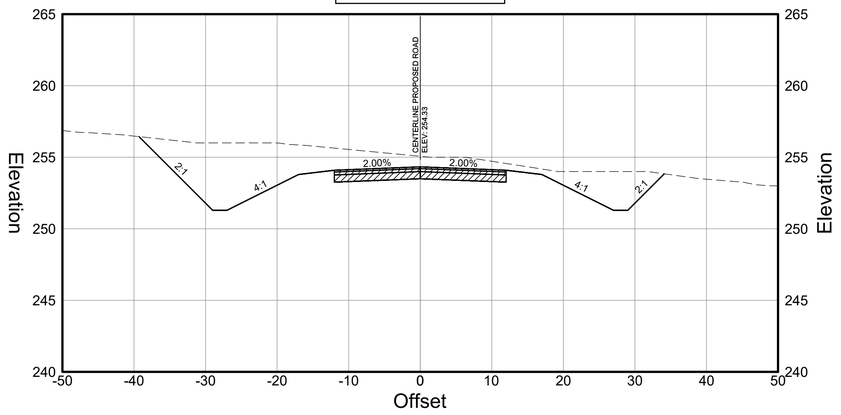
1+00.00 McNUTT WAY



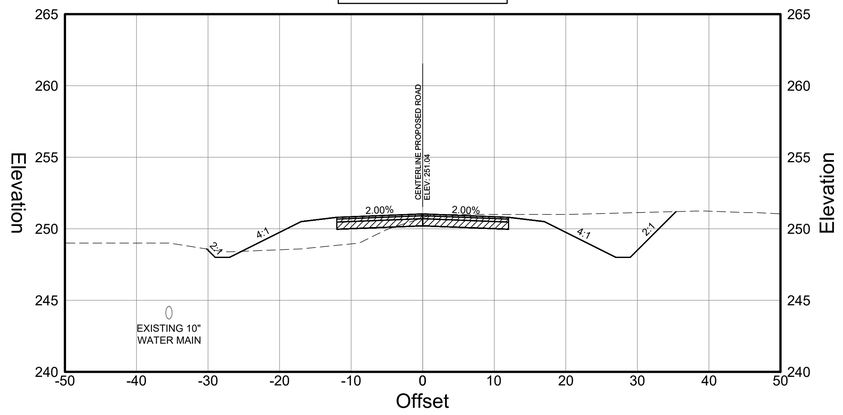
2+50.00 McNUTT WAY



0+50.00 McNUTT WAY



2+00.00 McNUTT WAY



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CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

McNutt Way
0+50 to 3+00

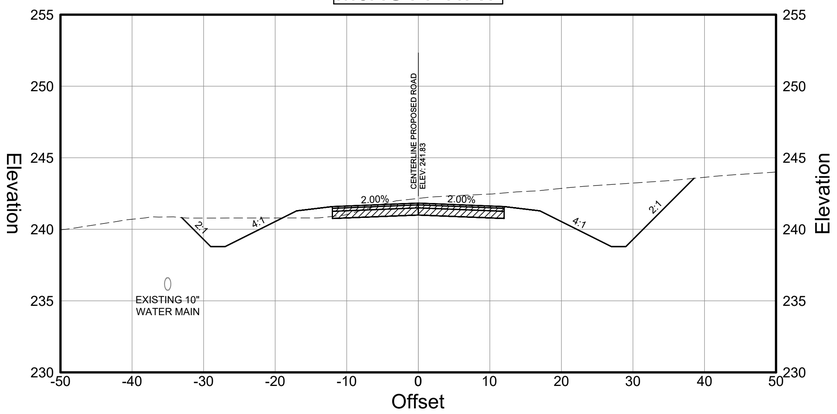
DRAWING NUMBER

23 - 0036

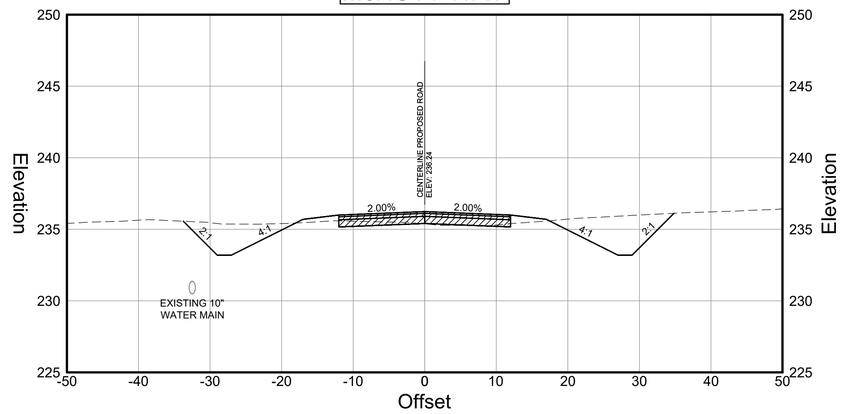
D:\Data\Projects\McNutt Road\Design\McNutt Road Cross Sections (10-2-19).dwg, 5/27/2021 3:07:35 PM

PROJECT: —

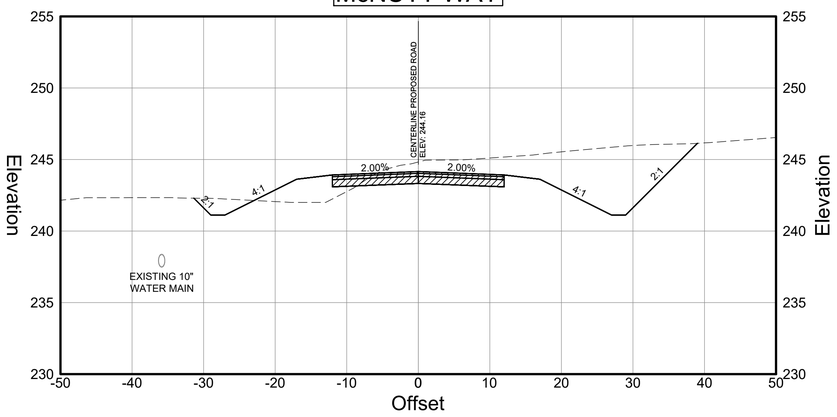
4+50.00 McNUTT WAY



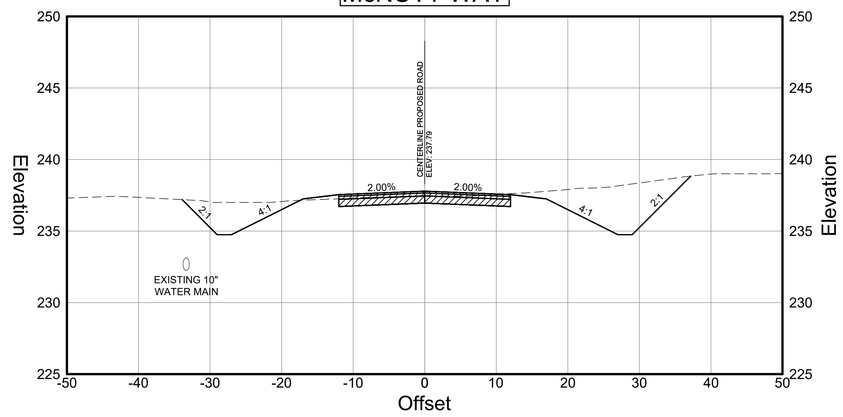
6+00.00 McNUTT WAY



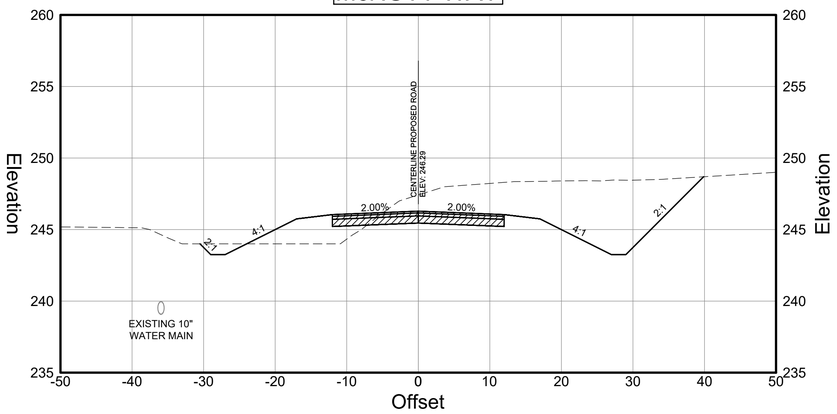
4+00.00 McNUTT WAY



5+50.00 McNUTT WAY



3+50.00 McNUTT WAY



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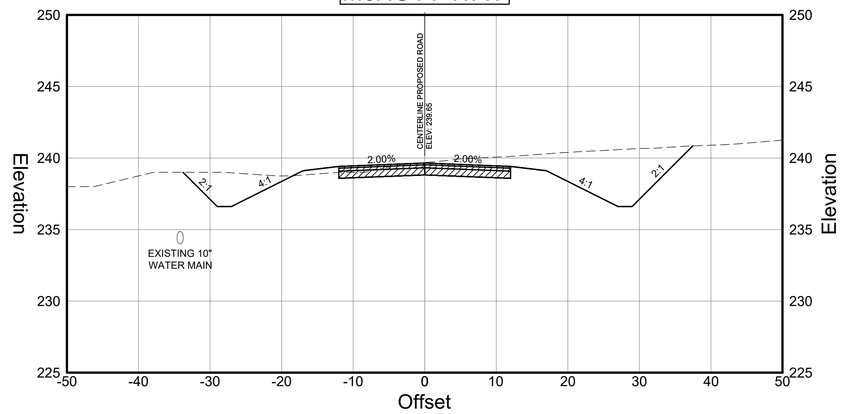

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Telephone (770) 781-5507

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DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

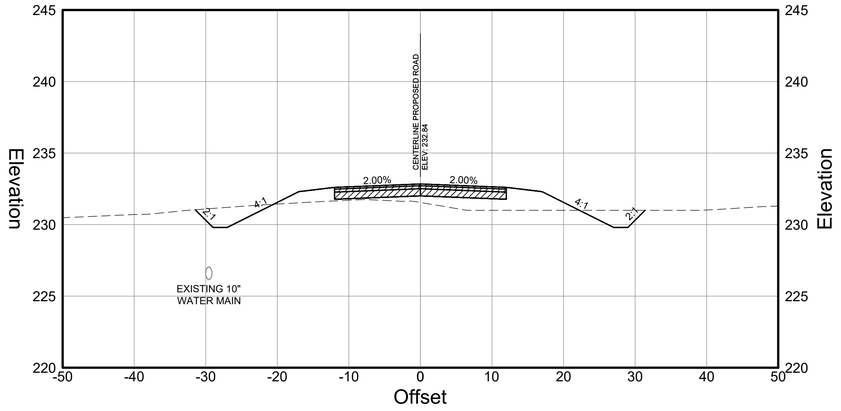
CROSS SECTIONS

McNutt Way
3+50 to 6+00

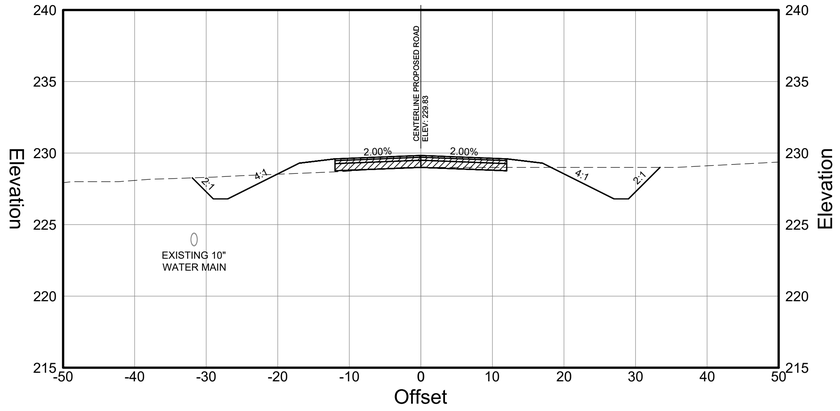
DRAWING NUMBER
23 - 0037

PROJECT: —

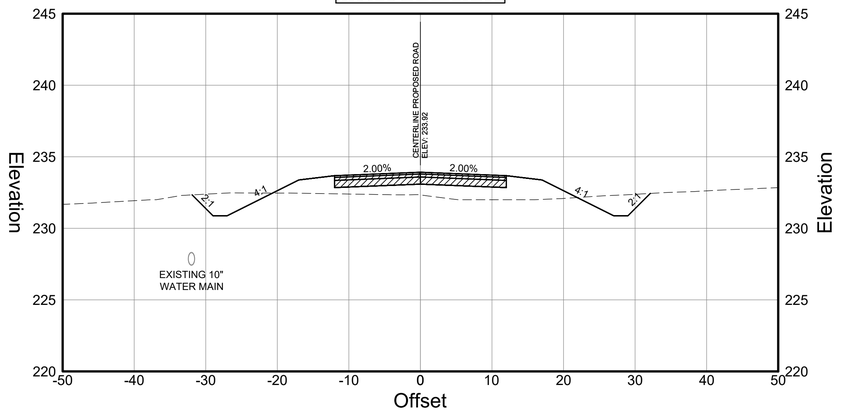
7+50.00 McNUTT WAY



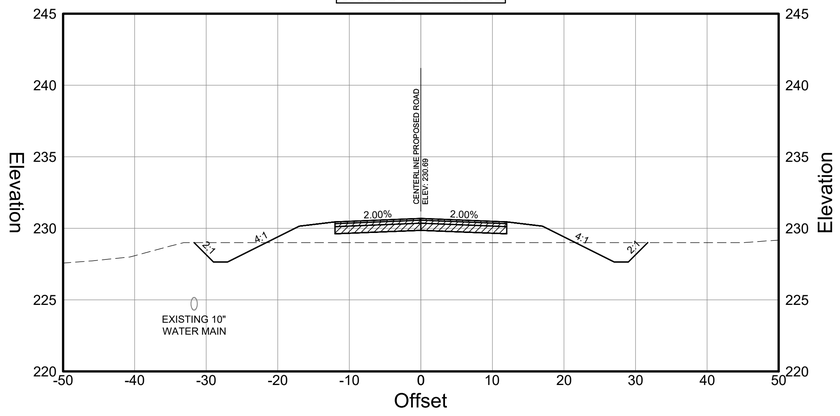
9+00.00 McNUTT WAY



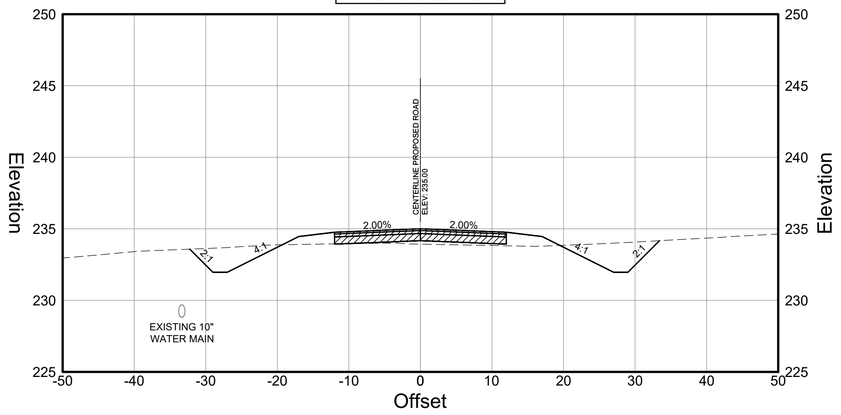
7+00.00 McNUTT WAY



8+50.00 McNUTT WAY



6+50.00 McNUTT WAY



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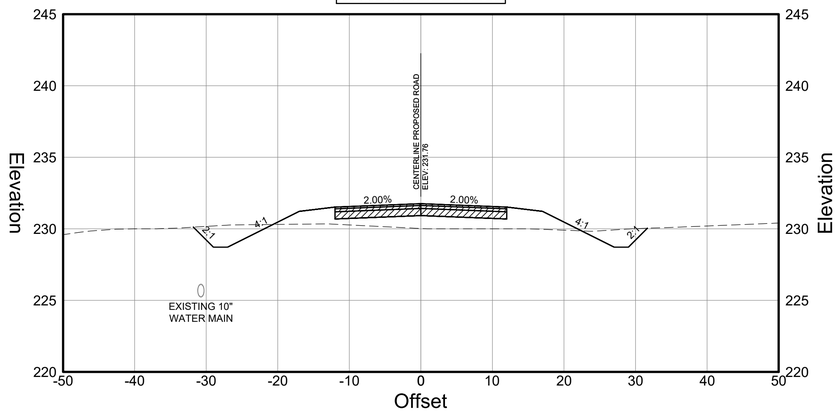

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

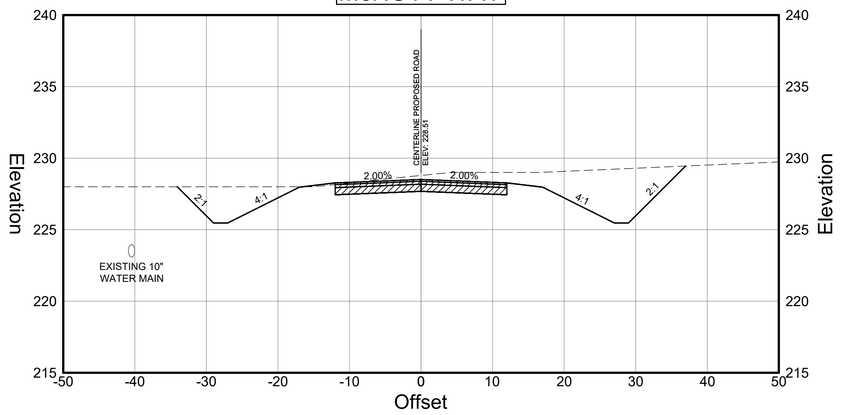
McNutt Way
6+50 to 9+00

DRAWING NUMBER

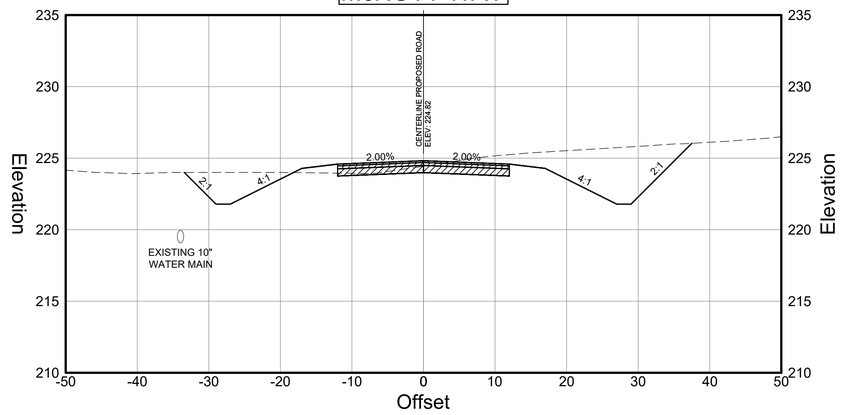
23 - 0038

PROJECT: —

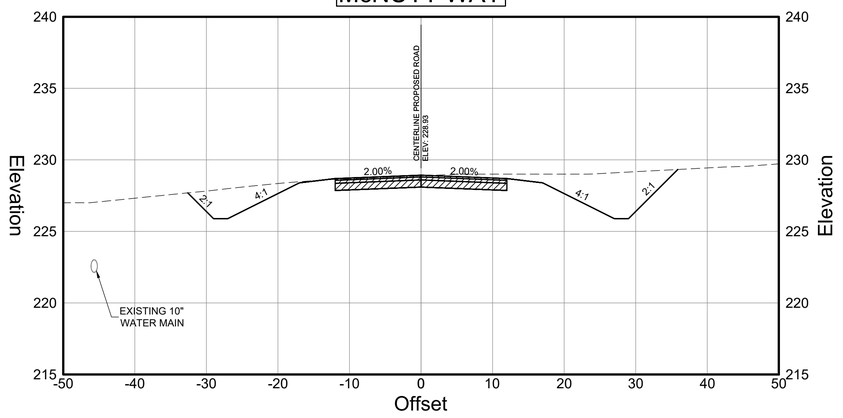
10+50.00 McNUTT WAY



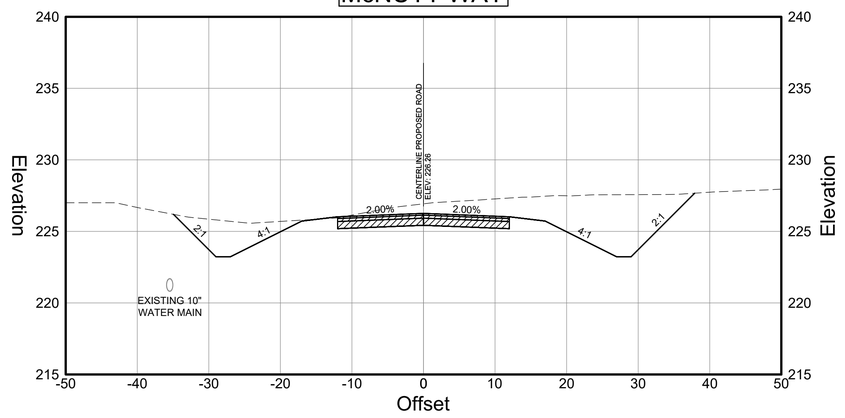
12+00.00 McNUTT WAY



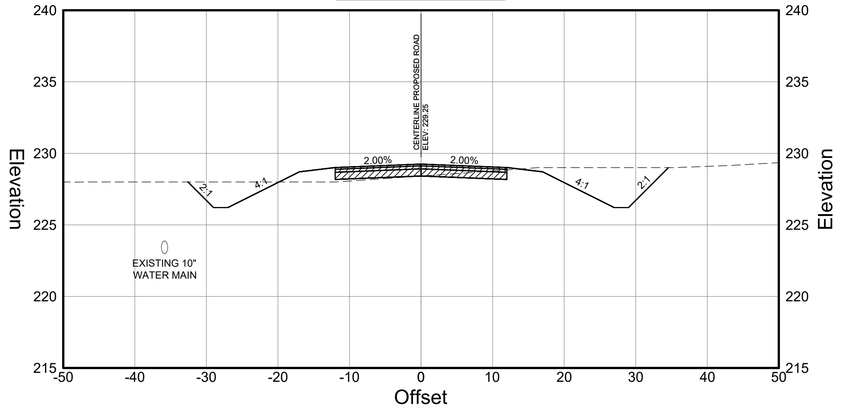
10+00.00 McNUTT WAY



11+50.00 McNUTT WAY



9+50.00 McNUTT WAY



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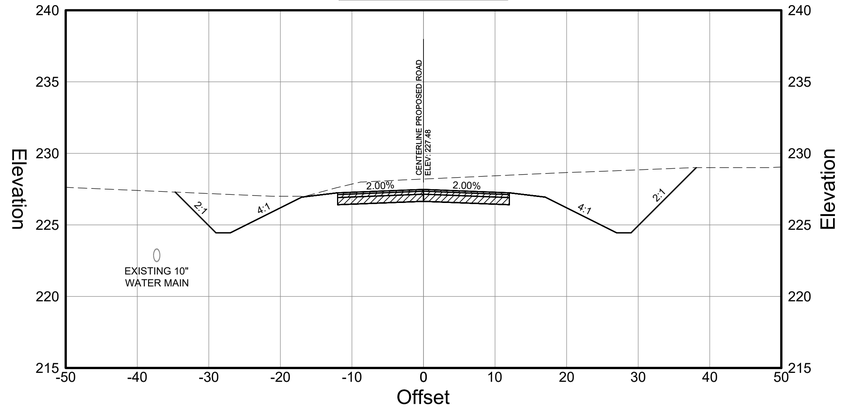

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

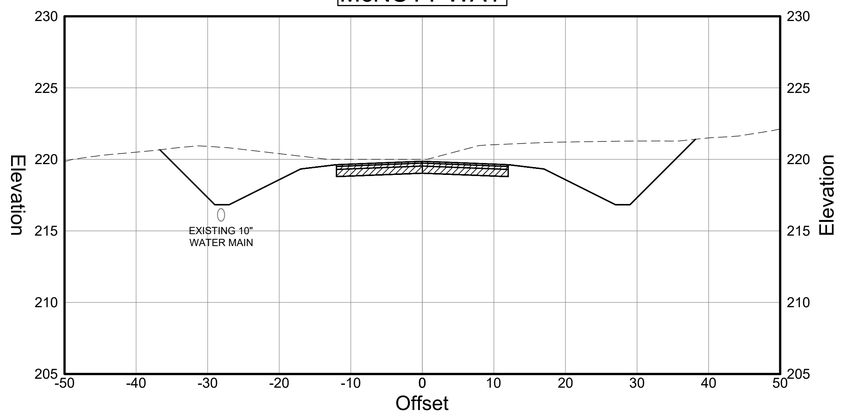
McNutt Way
9+50 to 12+00

DRAWING NUMBER

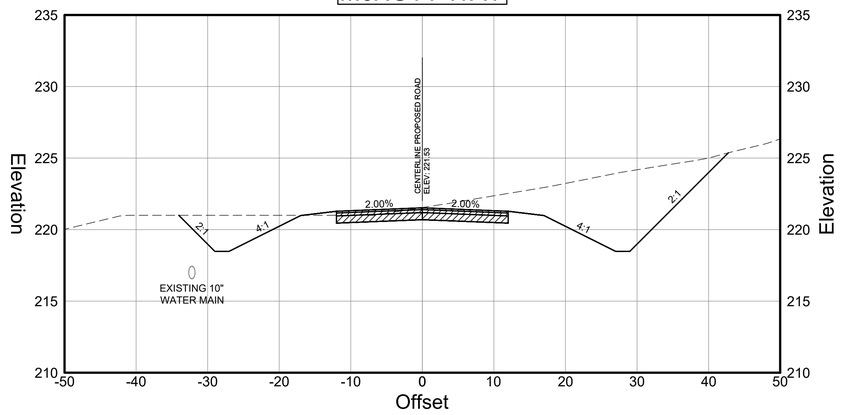
23 - 0039

PROJECT: —

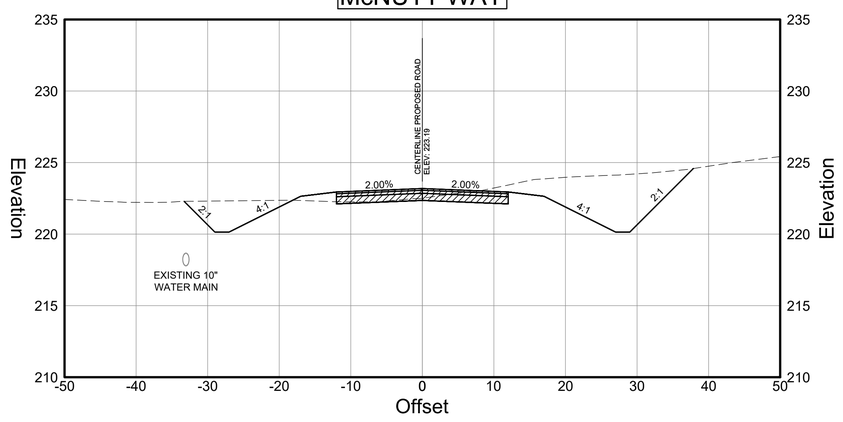
13+50.00 McNUTT WAY



13+00.00 McNUTT WAY



12+50.00 McNUTT WAY



GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

HORIZONTAL SCALE: 1" = 10'
VERTICAL SCALE: 1" = 5'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CROSS SECTIONS

McNutt Way
12+50 to 13+50

DRAWING NUMBER
23 - 0040

D:\Data\Projects\McNutt Road\Design\McNutt Road Cross Sections (10-2-19).dwg, 5/27/2021 3:10:16 PM

PROJECT: —

BENNOCK MILL ROAD
80' R/W

STOP
R1-1

PT: 0+70.23

PC: 0+33.32

24" SOLID WHITE
STOP BAR

(2) EA. TYPE 1 YELLOW
RPM'S @ 40' SPACING (TYP)

PC: 3+88.17

W3-1a

MOBILE HOME

PT: 6+46.87

PC: 7+38.76

5" SOLID WHITE
(TYPICAL)

PT: 9+72.37

MATCHLINE STA 10+50

GRID NORTH
(GA WEST ZONE)

McNUTT ROAD - 80' R/W

0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00

CONST ℄

22' ASPHALT

R35'

5" DOUBLE SOLID YELLOW
(TYPICAL)

PT: 5+01.68

PC: 5+37.44

SIGN POST

R2-1
SPEED
LIMIT
25

W1-5R

NEXT
2 MILES
W7-3a

DIRT DRIVE

ASPH

MOBILE HOME

SHED

GRAVEL DRIVE

METAL SHED

WOOD SHED

DOG HOUSE

TREE HOUSE

PC: 16+67.39

PC: 17+85.93

PC: 13+04.92

GATE POST

11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00

MATCHLINE STA 20+50

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HORIZONTAL SCALE: 1" = 40'

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AN ATLAS COMPANY

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

SIGNING AND MARKING PLANS

McNUTT ROAD
0+00 to 20+50

DRAWING NUMBER
26-0001

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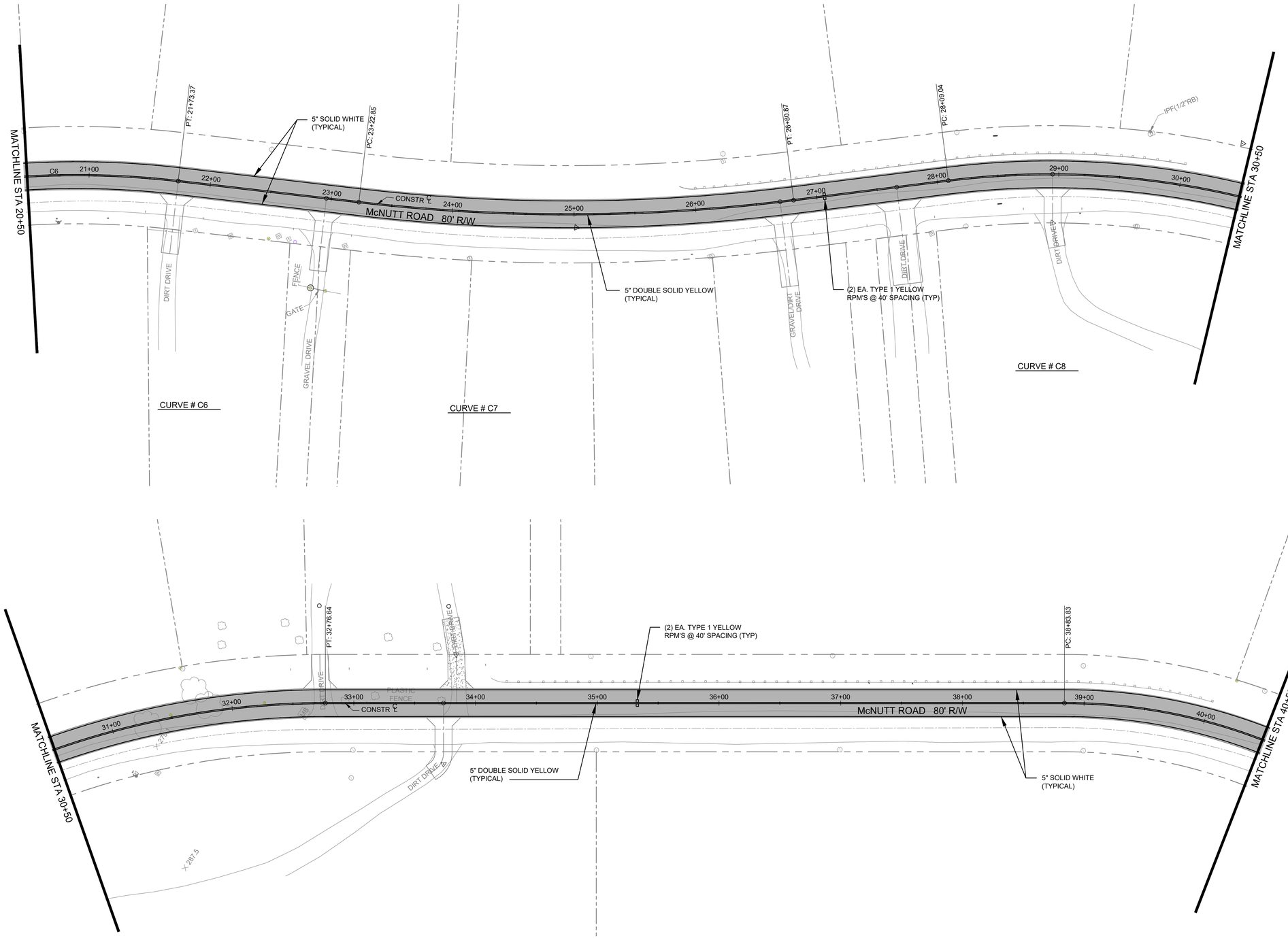

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HORIZONTAL SCALE: 1" = 40'

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327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta Georgia

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

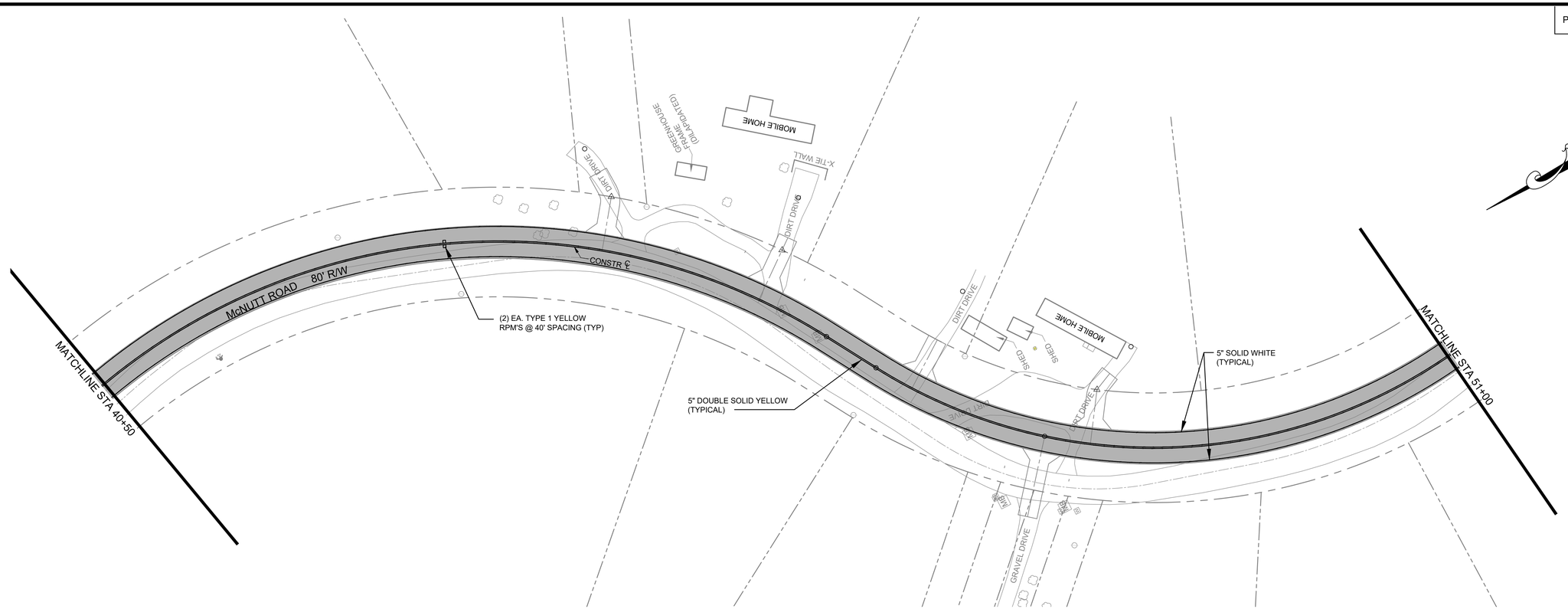
SIGNING AND MARKING PLANS

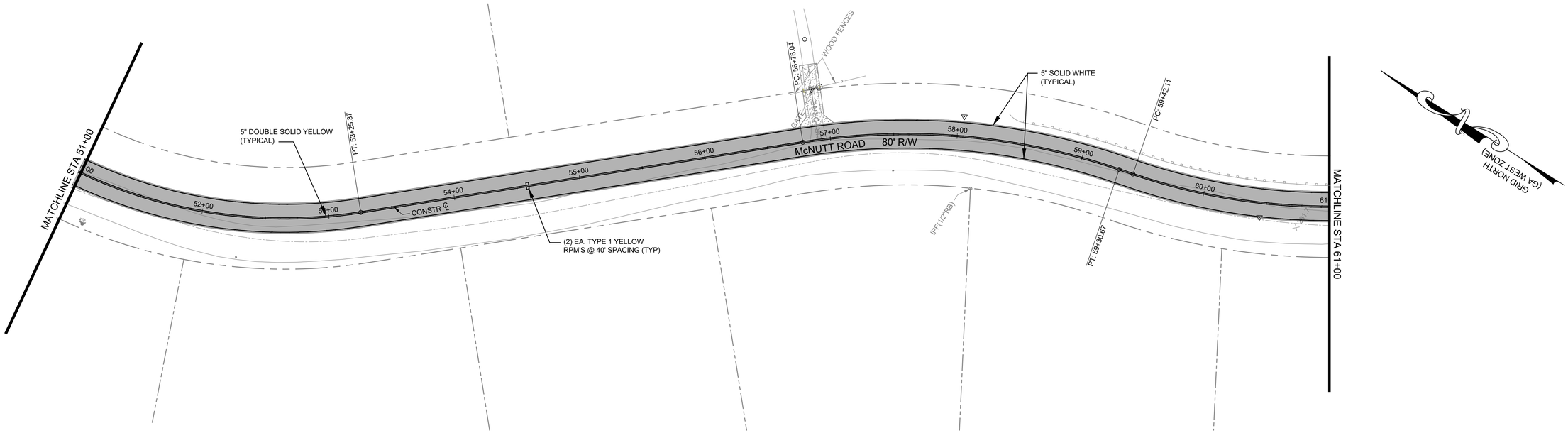
McNUTT ROAD
20+50 to 40+50

DRAWING NUMBER

26-0002

PROJECT: —





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HORIZONTAL SCALE: 1" = 40'

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Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

SIGNING AND MARKING PLANS

McNUTT ROAD
40+50 to 61+00

DRAWING NUMBER

26-0003

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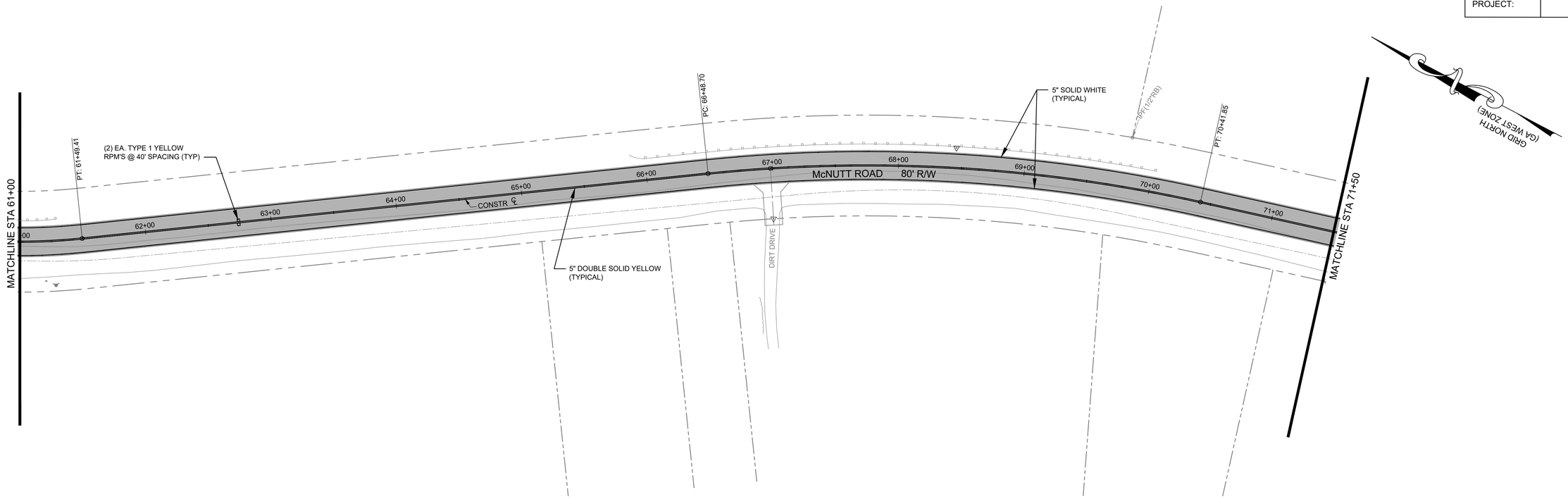

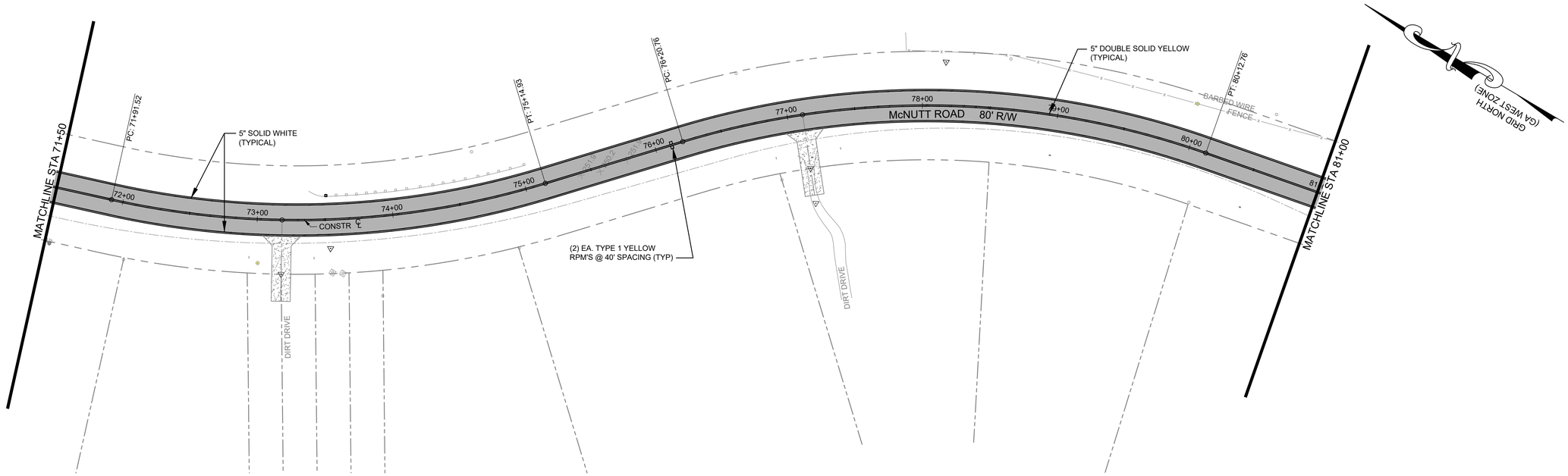

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HORIZONTAL SCALE: 1" = 40'

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Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

SIGNING AND MARKING PLANS

McNUTT ROAD
61+00 to 81+00

DRAWING NUMBER

26-0004

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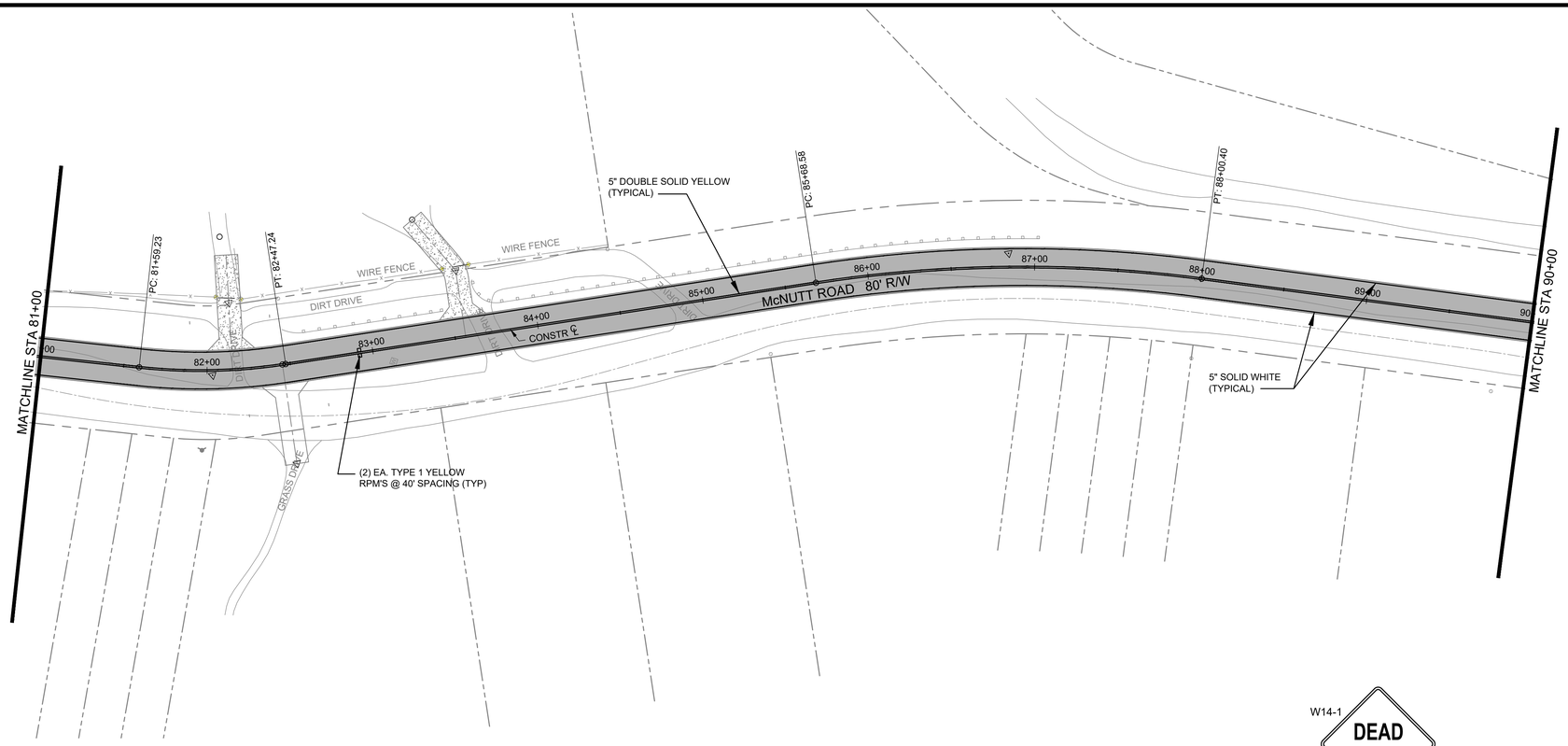

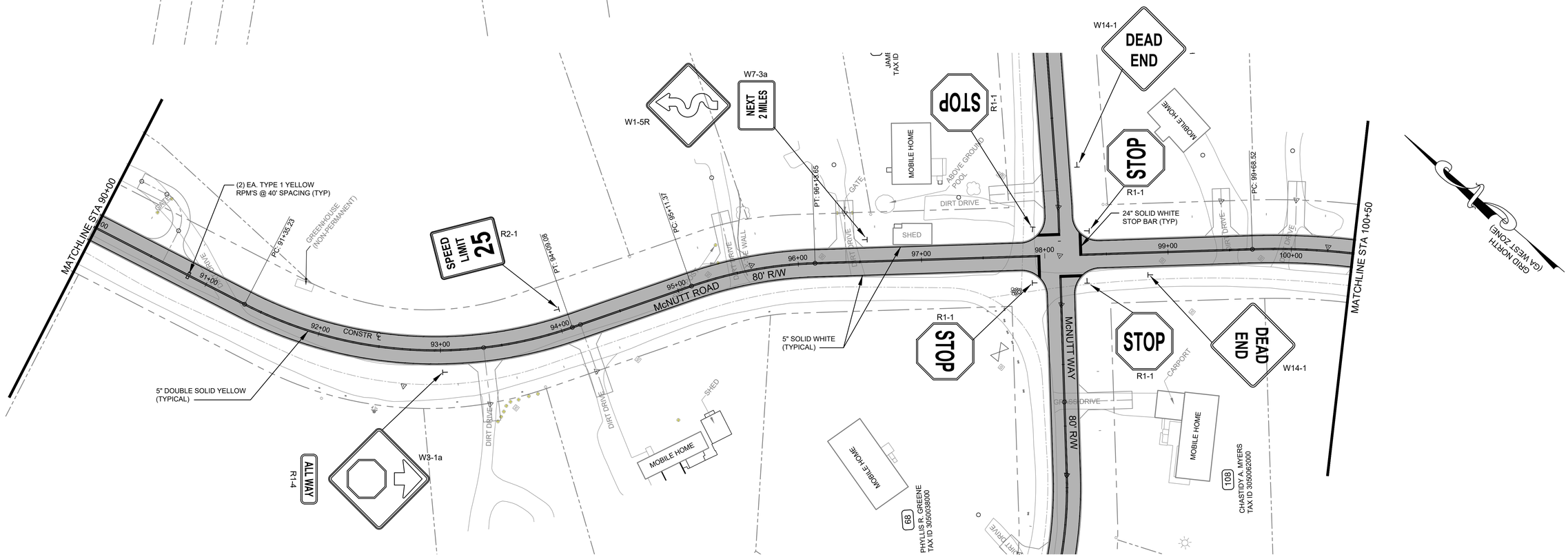

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HORIZONTAL SCALE: 1" = 40'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

SIGNING AND MARKING PLANS

McNUTT ROAD
81+00 to 100+50

DRAWING NUMBER
26-0005

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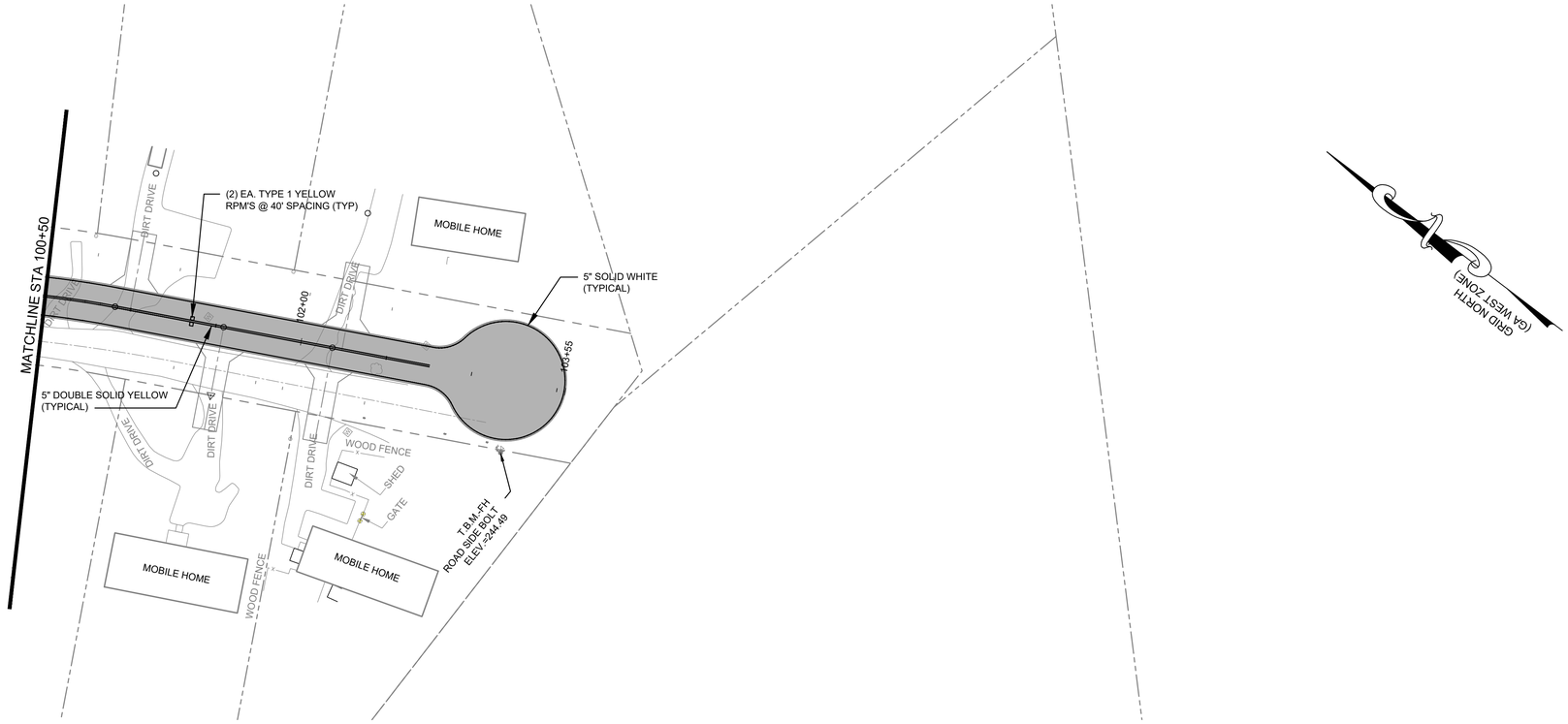

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HORIZONTAL SCALE: 1" = 40'

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Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

SIGNING AND MARKING PLANS

McNUTT ROAD
100+50 to END

DRAWING NUMBER

26-0006

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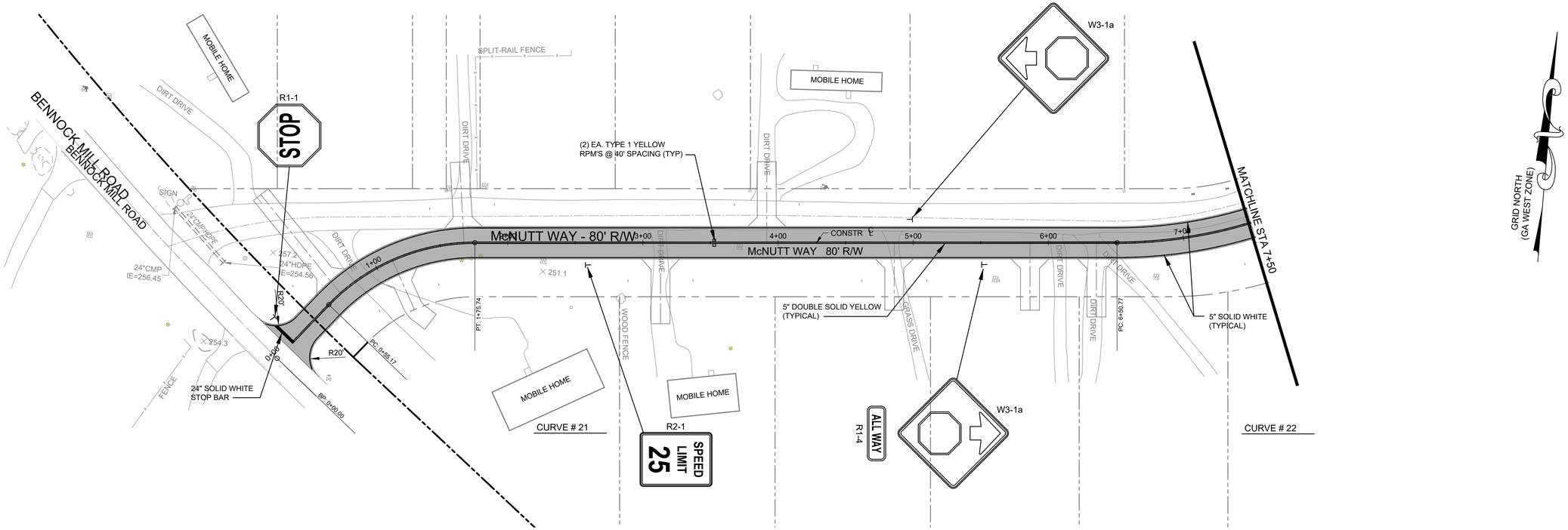

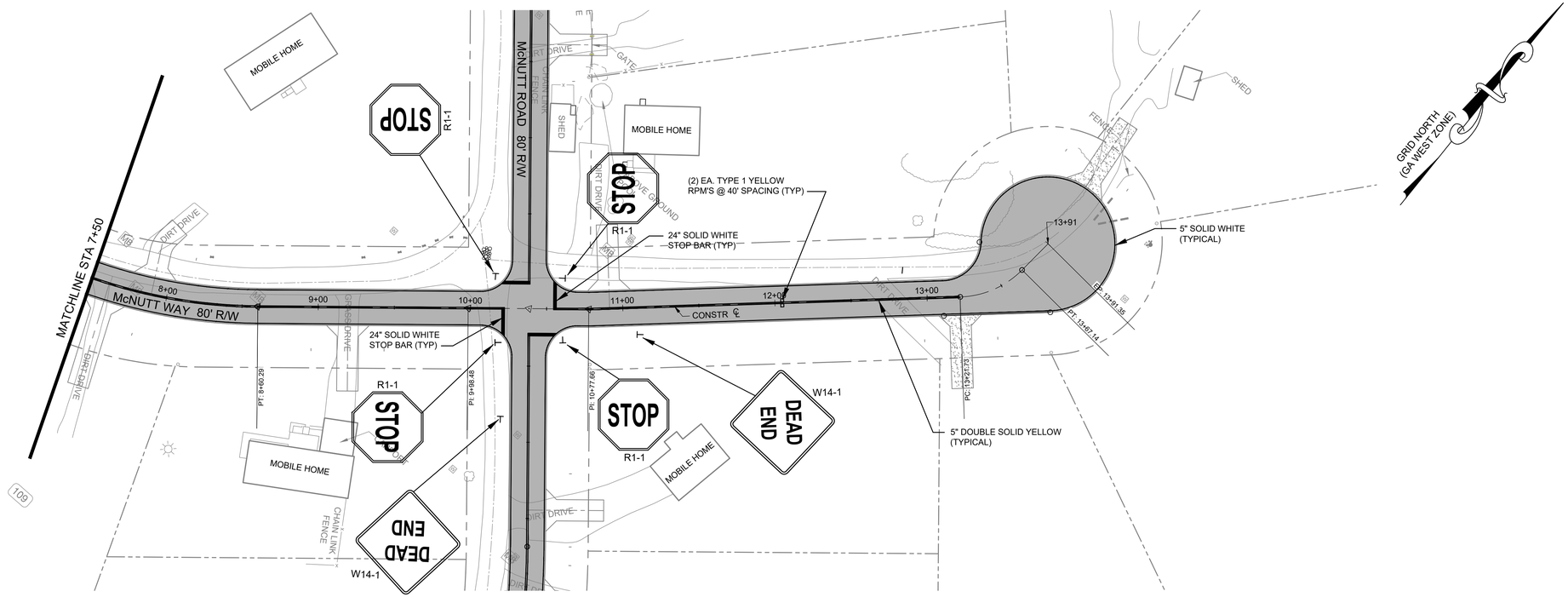

HORIZONTAL SCALE: 1" = 40'

MORELAND ALTOBELLI
AN ATLAS COMPANY
Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

SIGNING AND MARKING PLANS

McNUTT WAY
0+00 to END

DRAWING NUMBER
26-0007

PROJECT: ___

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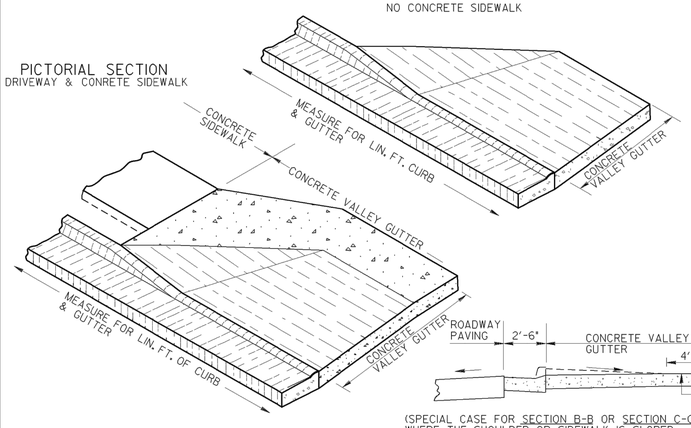
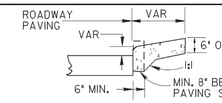
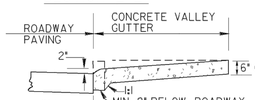
PICTORIAL SECTION
NO CONCRETE SIDEWALK



PICTORIAL SECTION
DRIVEWAY & CONRETE SIDEWALK

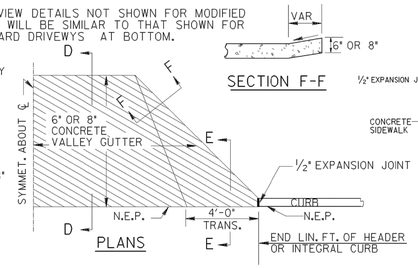


SECTION E-E



SECTION D-D

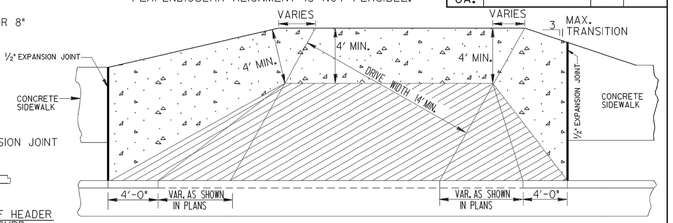
NOTE:
PLAN VIEW DETAILS NOT SHOWN FOR MODIFIED DRIVES WILL BE SIMILAR TO THAT SHOWN FOR STANDARD DRIVEWYS AT BOTTOM.



PLANS

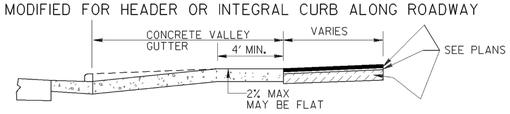
SECTION F-F

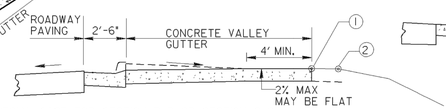
NOTE: DRIVEWAYS WILL NOT BE SKEWED EXCEPT WHERE PERPENDICULAR ALIGNMENT IS NOT FEASIBLE.



DRIVE ENTRANCE MODIFIED FOR SKEW

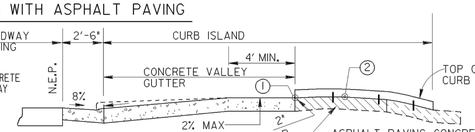
DRIVE MODIFIED FOR HEADER OR INTEGRAL CURB ALONG ROADWAY





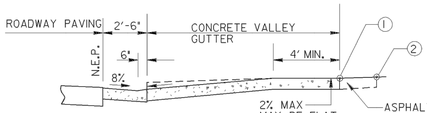
(SPECIAL CASE FOR SECTION B-B OR SECTION C-C; WHERE THE SHOULDER OR SIDEWALK IS SLOPED AWAY FROM THE ROAD)

SECTION WITH ASPHALT PAVING



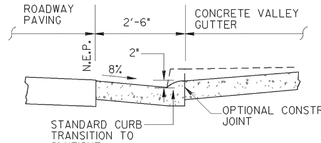
SECTION C-C

ASPHALT PAVING, CONCRETE VALLEY GUTTER, DRIVEWAY CONCRETE, OR EXISTING PAVEMENT, AS SPECIFIED IN THE PLANS. ALL DRIVEWAYS WITHIN THE RIGHT OF WAY SHALL BE PAVED.

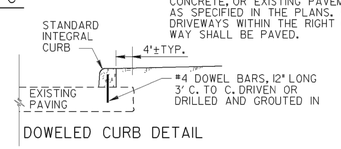


SECTION B-B

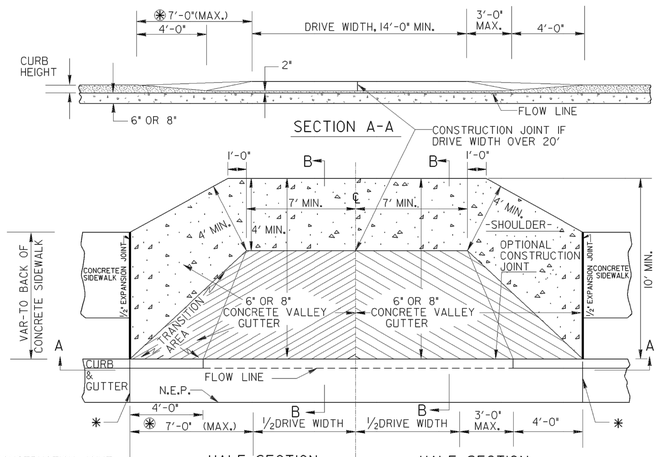
ASPHALT PAVING, DRIVEWAY CONCRETE, OR EXISTING PAVEMENT, AS SPECIFIED IN THE PLANS. ALL DRIVEWAYS WITHIN THE RIGHT OF WAY SHALL BE PAVED.



NOTE:
ALTERNATES TO THE CURB ISLAND DESIGN SHOWN HERE MAY BE SPECIFIED IN THE PLANS.



DOWELED CURB DETAIL



✱ CONSTRUCTION JOINT NOT REQUIRED IF THE OPTIONAL CONSTRUCTION JOINT IS PROVIDED AT BACK OF THE CURB.

HALF SECTION
SYMMETRICAL ABOUT THIS SIDE OF CENTERLINE WHERE CONCRETE SIDEWALK OCCURS.

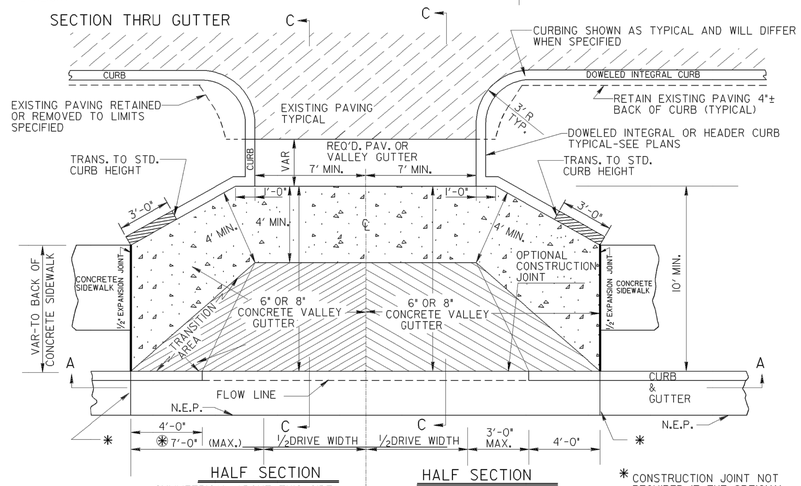
PLAN

HALF SECTION

PLAN

RESIDENTIAL, COMMERCIAL OR NON-COMMERCIAL DRIVE

SECTION THRU GUTTER



HALF SECTION
SYMMETRICAL ABOUT THIS SIDE OF CENTERLINE WHERE CONCRETE SIDEWALK OCCURS.

PLAN

HALF SECTION

PLAN

DRIVEWAY WITH CURB ISLAND

(SHOWN ADJACENT TO EXISTING PAVED PARKING AREA)

✱ CONSTRUCTION JOINT NOT REQUIRED IF THE OPTIONAL CONSTRUCTION JOINT IS PROVIDED BACK OF CURB.

✱ 7'-0" OR DISTANCE EQUAL TO THAT FROM BACK OF CURB TO BACK OF SIDEWALK, WHICHEVER IS LESSER

GENERAL NOTES:

1. QUANTITIES SHALL BE MEASURED AS FOLLOWS:
   (A) CONCRETE CURB & GUTTER ALONG ROADWAY--- LIN. FT. OF CURB & GUTTER SHALL BE MEASURED FOR PAYMENT CONTINUOUS THRU THE DRIVE ENTRANCES. PAYMENT FOR CURB & GUTTER SHALL INCLUDE DAPPING DOWN THE TOP PORTION OF THE CURB. SQ. YDS. OF CONCRETE VALLEY GUTTER SHALL BE MEASURED FOR PAYMENT TO THE BACK OF THE CURB LINE.
   (B) HEADER (OR INTEGRAL) CURB ALONG ROADWAY--- LIN. FT. OF CURB SHALL BE MEASURED FOR PAYMENT TO THE BEGINNING OF DRIVE WAY. SQ. YDS. OF CONCRETE VALLEY GUTTER SHALL BE MEASURED FOR PAYMENT TO THE EDGE OF THE ROADWAY PAVING.
2. N.E.P. IS DEFINED AS THE POINT WHERE THE ROADWAY PAVING MEETS THE CURB & GUTTER, OR HEADER CURB, OR FACE OR THE INTEGRAL CURB.
3. DRIVES RECONSTRUCTED SHALL BE REPLACED IN KIND, I.E, ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE, AND PAVED TO THE RIGHT OF WAY LINE.
4. SEE STANDARD 9032-B FOR DETAILS OF CONCRETE CURB & GUTTER, HEADER CURBS AND DOWELED INTEGRAL CURBS.
5. WIDTHS OF COMMERCIAL DRIVEWAYS SHALL COMPLY WITH CURRENT "RULES AND REGULATIONS FOR DRIVEWAY AND ENCROACHMENT CONTROL". WIDTHS OF RESIDENTIAL NON-COMMERCIAL DRIVEWAYS SHALL BE AS SPECIFIED IN THE PLANS.
6. THE SLOPE OF THE "TRANSITION AREA" OF THE CONCRETE VALLEY GUTTER SHALL NOT BE STEEPER THAN 8% (12±) WHERE SIDEWALKS ARE LOCATED.
7. MAXIMUM DRIVEWAY GRADES SHOWN BELOW ARE INTENDED FOR RESIDENTIAL DRIVEWAYS WHERE FLATTER GRADES ARE NOT FEASIBLE. GRADES FOR COMMERCIAL DRIVEWAYS OR FOR TRUCKS SHALL NOT BE GREATER THAN 11% UNLESS SPECIFIED OTHERWISE.

Guidelines For Usage On Metric Projects

When these details are incorporated into plans and or projects that are being prepared or constructed in metric units, exact or precise conversion to metric units is not required. The dimensions shown that are in feet and inches may be converted to corresponding metric units using the following "Rounded-Off" conversion factors: 1" =25mm, 4"=100mm, and 12" or 1'=300mm. All measurement notes that refer to linear feet and square yards shall be interpreted to mean linear meters and square meters.

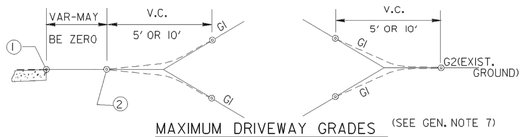
(1) IS THE BACK OF SIDEWALK SURFACE GRADE OR THE SHOULDER SURFACE GRADE 10'-0" BACK OF THE CURB, SLOPE OF THE CONCRETE VALLEY GUTTER WILL BE SUCH THAT THE BACK OF THE DRIVEWAY TAPER WILL BE THE SAME ELEVATION.

(2) IS BEGINNING OF DRIVEWAY TIE-IN.

NOTE: (1) AND (2) MAY COINCIDE

V.C.	MAXIMUM CUT	MAXIMUM FILL
5'	21%	16.67%
10'	28%	27%

V.C.	G1-G2 (MAX. ALGEBRAIC GRADE CHANGE) SAG	CREST
5'	21%	25%
10'	25%	36%



MAXIMUM DRIVEWAY GRADES (SEE GEN. NOTE 7)

This Detail Replaces Ga Standard 6050

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

BY	REVISION	DATE
GLO	REV. PAVEMENT NOTES, REV. 12' TO 14' MIN., REV. SWALK	7-24-11
	REVISED	4-11-02
	REVISED	4-3-02

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL
DRIVEWAYS WITH TAPERED ENTRANCES
CONCRETE VALLEY GUTTERS

NO SCALE — MARCH 12, 2002

NUMBER A1

7/22/2011 2:16:33 PM \\GDOT-DSN1\GOPLOT\GCF\GO_Klp8000.gcf gowens V:\GARY\revised A-1, A-2\A-1.prf

D:\Data\Projects\McNutt Road\Design\McNut Road Construction Details.dwg, 5/27/2021 3:36:11 PM

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MORELAND ALTOBELLI — AN ATLAS COMPANY

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Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

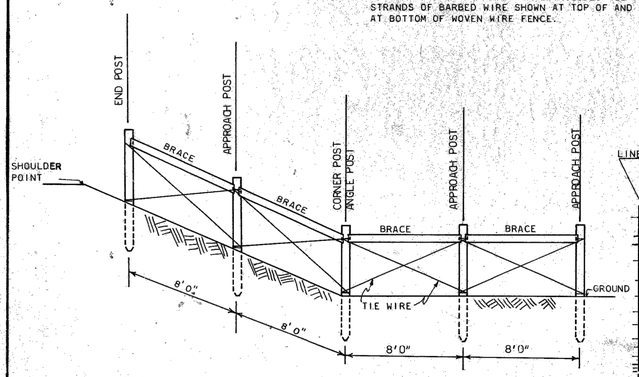
McNUTT ROAD
ROAD CONSTRUCTION PLANS

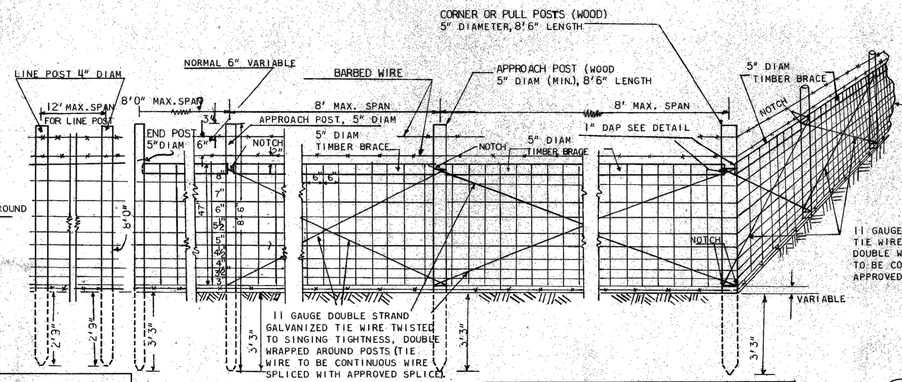
REVISION DATES

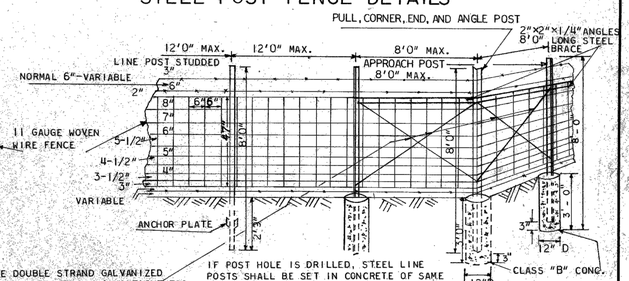
CONSTRUCTION DETAILS

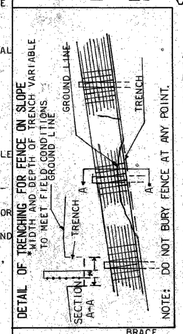
McNUTT ROAD AND McNUTT WAY

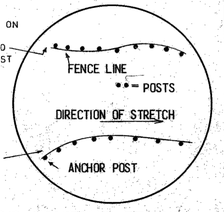
DRAWING NUMBER 40-0001

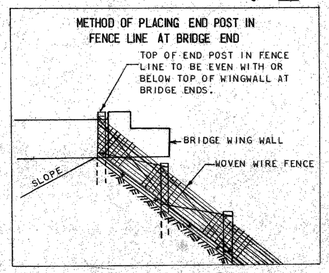


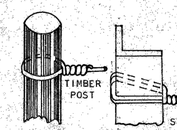


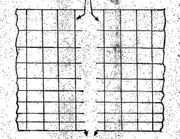


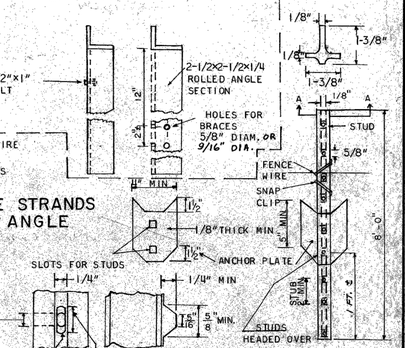












PROJECT:

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
GA.			

NOTE: PAYMENT FOR WOVEN WIRE FENCE INCLUDES ALL STRANDS OF BARBED WIRE SHOWN AT TOP OF AND AT BOTTOM OF WOVEN WIRE FENCE.

DETAIL OF FENCE BRACING WHEN APPROACHING FILL SLOPE OR ON ANGLE GREATER THAN 15°

GENERAL NOTES:

1. FENCE MAY BE ANGLED TO EDGE OF CULVERTS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE DESIGNATION OF THIS DETAIL ON THE PLANS WILL BE ON THE BASIS OF A SAFETY EVALUATION.
2. A CHANGE IN TYPE MATERIAL FOR LINE POST CONSTRUCTION WILL ONLY BE ALLOWED AT NATURAL BREAKS IN THE FENCE LINE SUCH AS GRADE SEPARATIONS, INTERCHANGES, AND BRIDGES.

TIMBER POST NOTES:

1. DIMENSIONS SHOWN AS DIAMETERS OF ROUND POSTS ALSO APPLY TO EDGE WIDTH OF SQUARE POSTS.
2. AT ABRUPT CHANGES IN GRADE, STAPLE EVERY LINE WIRE.
3. TIMBER POSTS TO BE SET BY DRIVING OR DRILLING POST HOLES.
4. USE 9 GAUGE GALVANIZED STAPLES 1-1/2" LONG FOR TIMBER POSTS AT APPROACH POST, STAPLE EVERY LINE WIRE IN TOP HALF AND ALTERNATE LINE WIRES IN BOTTOM HALF, SEE STAPLING DETAIL.
5. ALL TIMBER POSTS AND BRACING ARE TO BE SEASONED AND PRESERVATIVE TREATED IN ACCORDANCE WITH SECTION 863 OF THE STANDARD SPECIFICATIONS.
6. THE CONTRACTOR WILL BE ALLOWED TO SUBSTITUTE 4 INCH NOMINAL DIMENSION LINE POSTS FOR THE DETAILS.
7. STUDDED STEEL "T" LINE POSTS MAY BE USED WITH WOODEN PULL, CORNER, END, APPROACH, AND ANGLE POSTS.
8. SQUARE WOODEN LINE POSTS CAN BE USED IN COMBINATION WITH ROUND WOODEN PULL, CORNER, END APPROACH, AND ANGLE POSTS.

STEEL POST NOTES:

1. SET PULL, CORNER, END AND APPROACH POST IN CONCRETE.
2. SECURE EVERY LINE WIRE AT STEEL CORNER, END, ANGLE AND PULL POSTS AT STEEL LINE POSTS FASTEN EVERY LINE WIRE IN TOP HALF OF FENCE, ALTERNATE LINE WIRES IN BOTTOM HALF.

TIMBER POST FENCE DETAILS

NOTE: ALL DIMENSIONS ARE MINIMUM UNLESS OTHERWISE NOTED.

11 GAUGE DOUBLE STRAND GALVANIZED TIE WIRE TWISTED TO SINGING TIGHTNESS DOUBLE WRAPPED AROUND POSTS TIE WIRE TO BE CONTINUOUS WIRE SPLICED WITH APPROVED SPLICE.

STEEL POST FENCE DETAILS

IF POST HOLE IS DRILLED, STEEL LINE POSTS SHALL BE SET IN CONCRETE OF SAME DIMENSIONS AS PULL, CORNER, END, APPROACH AND ANGLE POSTS.

DETAIL OF TRENCHING FOR FENCE ON SLOPE

*WIDTH AND DEPTH OF TRENCH VARIABLE TO MEET FIELD CONDITIONS

ALWAYS PUT THE WIRE ON THE OUTSIDE OF THE POST ON THE CURVE SO THAT IT PULLS AGAINST THE FENCE POSTS.

STRETCH FENCE FROM END HAVING LESS CURVATURE.

DETAIL OF CONTOUR FENCING

METHOD OF PLACING END POST IN FENCE LINE AT BRIDGE END

TOP OF END POST IN FENCE LINE TO BE EVEN WITH OR BELOW TOP OF WINGWALL AT BRIDGE ENDS.

METHOD OF SECURING WIRE STRANDS OF FENCE AT END CORNER ANGLE AND PULL POST

THESE STAY WIRES TO BE REMOVED-FENCE TO BE SECURED WITH APPROVED SPLICE

PULL, CORNER, END, APPROACH, AND ANGLE POSTS

STUDDED "T" SECTION LINE POST

DRIVE STAPLES AT ANGLES.

DO NOT DRIVE STAPLES PARALLEL TO SIDE OF POST.

LEAVE WIRE LOOSE IN STAPLE.

STAPLING DETAILS

DETAIL OF CLAMP TO BE USED WITH ANGLE & PULL ASSEMBLIES WHERE STEEL POSTS ARE USED

A. TENSION CURVE IN THE LINE WIRE BEFORE THE FENCE IS STRETCHED.

B. TENSION CURVE AFTER THE FENCE HAS BEEN STRETCHED STRETCH WIRE UNTIL TENSION CURVE WILL NOT EXCEED 1/2 ITS ORIGINAL DEPTH.

DETAIL OF TENSION CURVE

SEE DETAILS OF WOVEN WIRE FENCE, THIS SHEET.

WOVEN WIRE FENCE GATE (SEE DETAIL SHEET).

SEE PLAN SHEET FOR LOCATION AND SIZE.

TOP STRAND OF BARBED WIRE TO BE AT SAME HEIGHT AS TOP STRAND OF WIRE IN WOVEN WIRE FENCE.

NOTE:
THIS FENCE IS TO BE USED AT LARGE PIPES AND CULVERTS WHERE A DISTINCT CHANNEL IS ENCOUNTERED EXCEPT WHERE THE CULVERT HAS BEEN APPROVED AS A CATTLE PASS.

DETAIL SHOWING PLACEMENT OF THREE STRAND BARBED WIRE FENCE

NOTE: THREE STRAND BARBED WIRE FENCE IS NOT INTENDED FOR GENERAL USE AS PASTURE FENCING. SEE CONSTRUCTION DETAILS FOR FOUR AND FIVE STRAND BARBED WIRE FENCE WHERE NEEDED.

TIMBER BRACING DETAILS

PULL POST ASSEMBLY

DETAIL OF FENCE CONSTRUCTION AT TYPE CHANGE

POINT OF POST MAY BE WEDGE SHAPED OR CONICAL SHAPED.

2'9" FOR LINE POSTS, 3'3" FOR APPROACH, END, CORNER OR PULL POSTS.

DETAIL OF TIMBER POST

FASTEN EACH CORNER OF METAL CAP TO SIDE OF POST WITH A 1" GALVANIZED ROOFING NAIL.

METHOD OF PLACING METAL CAP ON WOODEN FENCE POSTS

SKETCH INDICATING FENCE LOCATION AT SECTIONS OF NO FRONTAGE ROADS (REFER TO DETAIL PLANS FOR LOCATION OF FENCING FOR PROJECTS WITH FRONTAGE ROADS).

R.M.H. GEN. REV. 3-10-88
R.M.U.-ADD. NOTE FOR PAYMENT-12-2-77

CONSTRUCTION DETAILS
WOVEN WIRE FENCE

REVISED AND REDRAWN 9-29-76

Dietzgen N. O. 138M-3 "Ageproof Film"

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Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

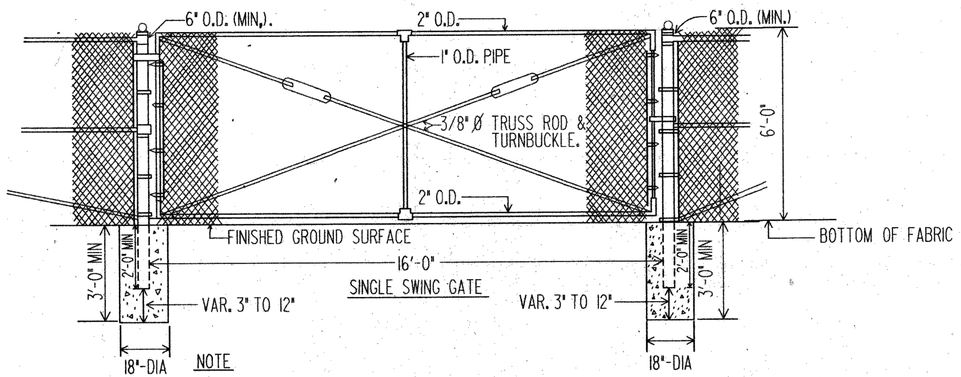
CONSTRUCTION DETAILS
McNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER
40-0002

PROJECT: —

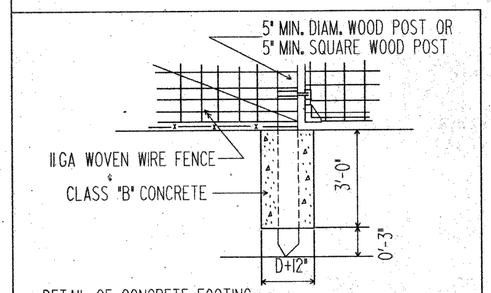
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

NOTE:
WHERE CHAIN LINK WIRE FENCE HAS BARBED WIRE, GATE SHALL ALSO REQUIRE BARBED WIRE BUT WITH VERTICAL EXTENSION ARMS ON THE GATE AND GATE POST UNLESS SPECIFIED OTHERWISE.

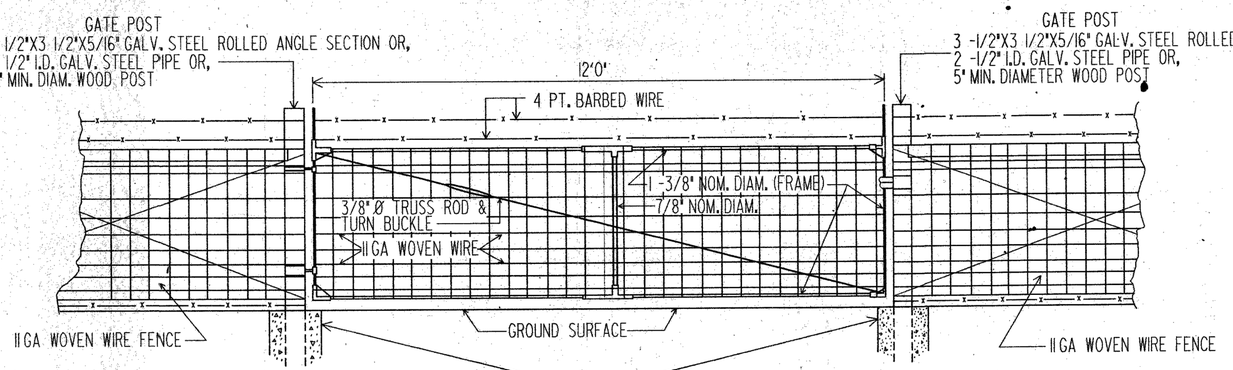


GATE FOR CHAIN LINK FENCE

NOTE
FITTINGS INCLUDING HINGES AND LATCHES, FOR GATES SHALL MEET THE APPROVAL OF THE ENGINEER AND THE REQUIREMENTS OF THE SPECIFICATIONS.



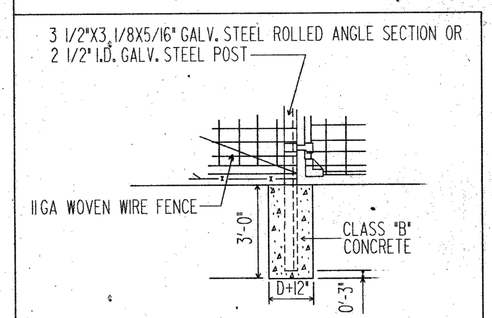
DETAIL OF CONCRETE FOOTING USING WOOD GATE POSTS FOR WOVEN WIRE FENCE



GATE FOR WOVEN WIRE FENCE

FOR DETAIL OF CONCRETE FOOTINGS SEE DETAILS LEFT

12 FT. SINGLE SWING GATE TO BE USED WITH WOOD POSTS OR METAL POSTS



DETAIL OF CONCRETE FOOTING USING METAL GATE POSTS FOR WOVEN WIRE FENCE

GATE: (WOVEN WIRE FENCE)

1- 1 -3/8" NOM. DIAMETER GALV. STEEL FRAME (12' X 47")
2- 7/8" NOM. DIAMETER GALV. STEEL CENTER BRACE
3- 3/8" Ø GALV. TRUSS-ROD & TURNBUCKLE
4- FABRIC IS TO BE WRAPPED AND TIED AROUND ENDS OF FRAME AND ATTACHED TOP AND BOTTOM WITH APPROVED FABRIC FASTENERS.
5- FITTINGS INCLUDING HINGES AND LATCHES, FORGATES SHALL MEET THE APPROVAL OF THE ENGINEER AND THE REQUIREMENTS OF THE MATERIAL SPECIFICATIONS.

GATE POSTS: (WOVEN WIRE FENCE)

1- 3 -1/2"X3 1/2"X5/16" GALV. STEEL ROLLED ANGLE SECTION OR
2 -1/2" I.D. GALV. STEEL PIPE OR
5" MIN. DIAMETER (WOOD) OR
5" MIN. SQUARE (WOOD)
2- TYPE OF GATE POSTS TO BE USED IS SELECTED BY CONTRACTOR. WOOD GATE POSTS ARE TO BE USED IF CONTRACTOR ELECTS TO USE WOOD FENCE POSTS. METAL GATE POSTS IF CONTRACTOR ELECTS TO USE METAL FENCE POSTS.
3- GATE REMAINS AS SHOWN ON DETAIL FOR FENCE WITH WOOD POST OR FENCE WITH METAL POSTS.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

GATE DETAILS FOR
CHAIN LINK & WOVEN WIRE FENCE

NO SCALE — JAN. 1988

REVISION	DATE	BY
		REV. RMU
		DRW. AS
		TRA. —
		CHK. RMU

F-2

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Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CONSTRUCTION DETAILS

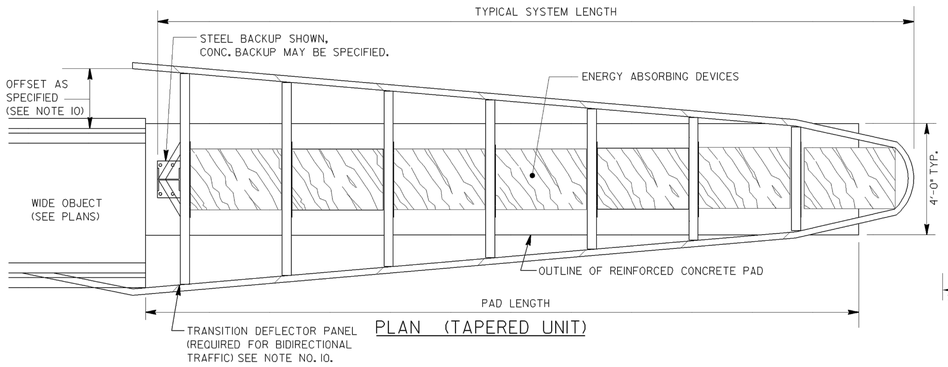
McNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER
40-0003

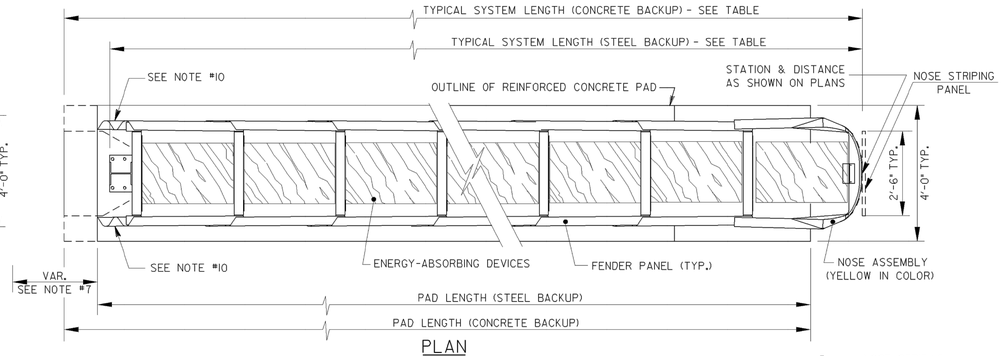
PROJECT: —

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

NOTE: PLAN & ELEVATION VIEWS ARE SHOWN AS TYPICAL AND MAY VARY PER THE MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 648.



PLAN (TAPERED UNIT)

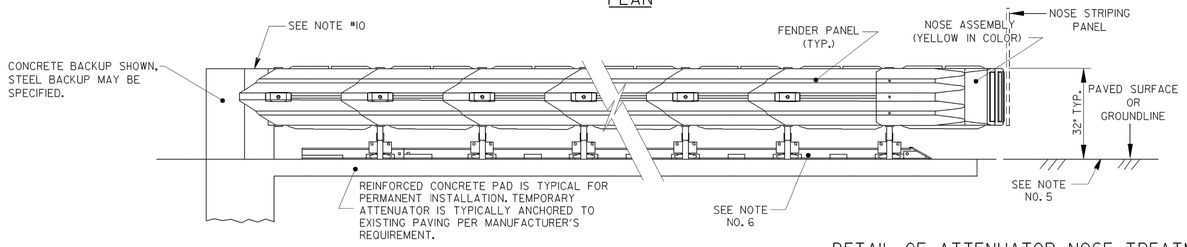


PLAN

DESIGN SPEED (mph)	TYPICAL SYSTEM LENGTHS (FT.)		
	STANDARD LENGTH (WITH STEEL BACK-UP)	MODIFIED FOR CONC. BACK-UP	WITH 10 FT. CONC. TRANS.
TO 35	10	11.5	20
40-45	13	14.5	23
50	16	17.5	26
55	19	20.5	29
60	22	23.5	32
65	26	27.5	36
70	31	32.5	41
75	34	35.5	44

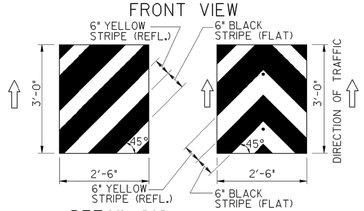
STANDARD STEEL BACK-UP SHALL BE USED UNLESS SPECIFIED OTHERWISE. CONCRETE BACK-UP MAY BE USED AS AN ALTERNATE AT LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.

THE LENGTHS IN ABOVE TABLE ARE COMMON OVERALL APPROXIMATE LENGTHS. VARIATIONS MAY BE SUBMITTED FOR APPROVAL. SEE SUB-SECTION 648.3.05



ELEVATION

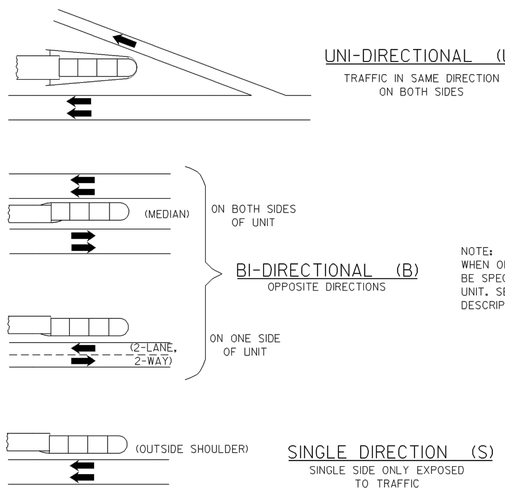
DETAIL OF ATTENUATOR NOSE TREATMENT



* STRIPES SHALL SLOPE DOWNWARD AT AN ANGLE OF 45 TOWARD THE SIDE ON WHICH TRAFFIC IS TO PASS, LEFT SHOWN, RIGHT NOT SHOWN, BUT MAY BE SPECIFIED.
THE 6" YELLOW STRIPES SHALL BE REFLECTIVE SHEETING, TYPE IX.
THE 6" BLACK STRIPES SHALL BE FLAT (NON-GLOSS) PAINT OR ANY OTHER APPROVED APPLICATION.
COLORS SHALL BE ACCORDING TO THE MUTCD.
STRIPING SHALL BE APPLIED TO A 0.04" THICK ALUMINUM PLATE.
OBJECT MARKER SHALL BE SECURED TO NOSE FRONT WITH THREE GALVANIZED 5/16" DIA. BOLTS WITH NUT AND WASHERS AS DIRECTED BY THE ENGINEER.

TRAFFIC FLOW DESIGNATIONS (TYP.)

SEE SUB-SECTION 648.3.04



NOTE:
WHEN ORDERING ATTENUATOR, TRAFFIC SHALL BE SPECIFIED AS "U" OR "B" OR "S" FOR EACH UNIT. SEE SECTION 648 FOR ADDITIONAL DESCRIPTION.

GENERAL NOTES

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION AND SUPPLEMENTS THERETO. SEE SECTION 648.
2. ALL ATTENUATORS WILL BE OF TYPE WHICH HAS BEEN APPROVED BY THE GA. D.O.T. AND FEDERAL HIGHWAY ADMINISTRATION AS MEETING AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE (MASH) REQUIREMENTS AND HAS BEEN CLASSIFIED AS "ACCEPTED" BY THE GDOT OFFICE OF MATERIALS AND RESEARCH AND LISTED ON QPL 64.
3. THE WIDTH OF THE SYSTEM SHALL BE 2'-6" UNLESS SPECIFIED OTHERWISE. UNITS HAVING A REAR WIDTH LESS THAN THE BASE OF THE SHIELDED OBJECT SHALL REQUIRE A CONCRETE TRANSITION, EXCEPT WHERE THE UNIT IS LOCATED ON THE OUTSIDE SHOULDER.
4. WHERE OBJECT BEING SHIELDED IS WIDER THAN THE DESIGNATED ATTENUATOR WIDTH, A TRANSITION WILL BE REQUIRED EITHER (a) BY PROVIDING A SPECIAL DESIGN CONCRETE TAPERED TRANSITION (SEE SEPARATE DETAILS) AS PART OF THE BACK-UP SYSTEM OR (b) BY MATCHING ATTENUATOR REAR WIDTH TO OBJECT SIZE UTILIZING A TAPERED ATTENUATOR MODEL WHICH INCREASES IN WIDTH FROM NOSE TO REAR (PER MANUFACTURER'S TAPERED MODEL NO.) WITH A STANDARD BACK-UP UNIT.
5. CROSS SLOPE OF PAD SHALL NOT EXCEED 8% AND NOT VARY MORE THAN 2% FROM FRONT TO BACK. THE ATTENUATOR SYSTEM SHALL BE LOCATED ON A RELATIVE FLAT AREA CLOSE TO OR AT ROADWAY LEVEL.
6. ALL ATTENUATOR UNITS SHALL BE CORRECTLY ANCHORED TO REINFORCED CONCRETE PAD OR OTHER APPROVED PAVED SURFACE PER MANUFACTURER'S RECOMMENDATIONS.
7. THE AREA IMMEDIATELY BACK OF THE ATTENUATOR SHALL BE CLEAR OF OBSTRUCTIONS THAT WOULD PREVENT THE REAR PANELS FROM SLIDING BACKWARD UPON IMPACT FOR A DISTANCE AS RECOMMENDED BY THE MANUFACTURER.
8. PAYMENT FOR IMPACT ATTENUATOR OF THE TYPE SPECIFIED SHALL INCLUDE THE ENTIRE UNIT WITH ALL ACCESSORIES, THE CONCRETE PAD, THE BACKUP SYSTEM, ANY TRANSITION REQUIRED, THE NOSE STRIPING PANEL WITH ALL MATERIALS AND LABOR NECESSARY TO COMPLETE THE SYSTEM.
9. BEFORE WORK BEGINS, THE CONTRACTOR SHALL OBTAIN THE MANUFACTURER'S INSTALLATION MANUAL, ASSEMBLY DETAILS, ANCHORING REQUIREMENTS, REINFORCING STEEL FOR CONCRETE RECOMMENDATIONS, AND ALL OTHER GUIDES AND INSTRUCTIONS NECESSARY FOR PROPER INSTALLATION AND PROVIDE COPIES OF SAME TO THE ENGINEER. THE CONTRACTOR SHALL INFORM THE MANUFACTURER OF ATTENUATOR OF SITE CONDITIONS INCLUDING FURNISHING ANY PLAN SHEETS OR SKETCHES AS NEEDED TO SHOW TRAFFIC FLOW DIRECTIONS, LOCATION AND DESIGN OF SHIELDED OBJECT, AND AVAILABLE ARES SIZE FOR LOCATION OF UNIT.
10. TO PREVENT VEHICLE SNAGGING, AN OFFSET AND/OR A TRANSITION DEFLECTION PANEL OR A CONCRETE TRANSITION SECTION IS REQUIRED AT ATTENUATOR REAR ON EACH SIDE SUBJECT TO TRAFFIC. SEE MANUFACTURER'S REQUIREMENTS.

BY	REVISION	DATE
GLO	REV. TITLE BLOCK AND AND GENERAL NOTE 1 AND 2, REV. REFLECTIVE SH. TYPE	4-10-06
GLO		7-21-11

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL
IMPACT ATTENUATOR UNITS
TYPE P - - - } SUB-SEC.
TYPE S - - - } 648.3.04

NO SCALE — REV. & REDR. MAR., 2001

NUMBER G-11

MORELAND ALTOBELLI — AN ATLAS COMPANY —
Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

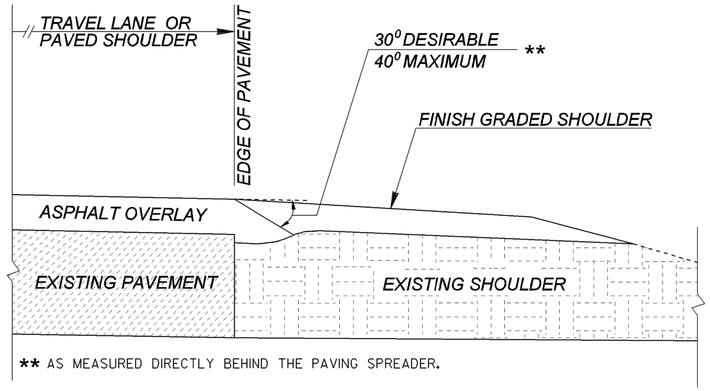
CONSTRUCTION DETAILS

McNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER 40-0004

7/26/2011 7:59:50 AM \\GDOT-DSN1\GDPLOT\QCF\GO_K1p8000.qcf gowens V:\GARY\Revised G-11\G-11.prf

ASPHALT PAVEMENT - OVERLAY



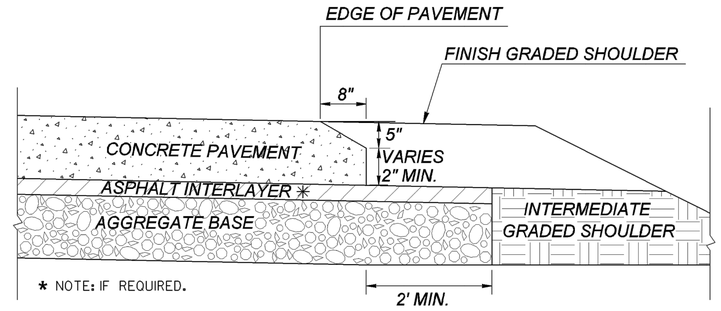
** AS MEASURED DIRECTLY BEHIND THE PAVING SPREADER.

ADDITIONAL QUANTITIES:
DEPTH OF OVERLAY (T), NO RUTTING
$(T)^2$ (IN.) X 0.000441 TN/IN.-FT X LENGTH (FT) = _____TN

DEPTH OF OVERLAY (T), WITH 1 IN. RUTTING
$(T)^2$ (IN.) X 0.000441 TN/IN.-FT X LENGTH (FT) + (T) (IN.) X 0.000882 TN/IN.-FT X LENGTH (FT) = _____TN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

PLAIN PC CONCRETE PAVEMENT OR ROLLER COMPACTED CONCRETE PAVEMENT



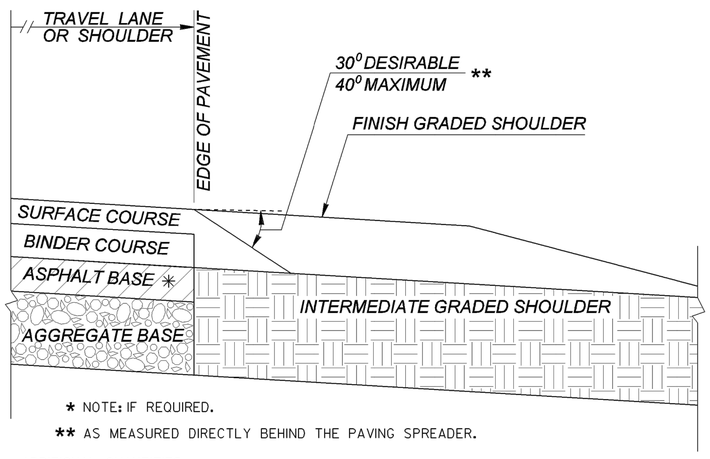
* NOTE: IF REQUIRED.

ADDITIONAL QUANTITIES:
CONCRETE
0.07407 SY/FT X LENGTH (FT) = _____SY

ASPHALT INTERLAYER, IF REQUIRED
(T) IN. X LENGTH (FT) X 0.004074 TN/IN.-FT = _____TN

AGGREGATE BASE (BASED ON 2.07 TN/CY)
(T) IN. X LENGTH (FT) X 0.0042592 TN/IN.-FT = _____TN

ASPHALT PAVEMENT - NEW



* NOTE: IF REQUIRED.

** AS MEASURED DIRECTLY BEHIND THE PAVING SPREADER.

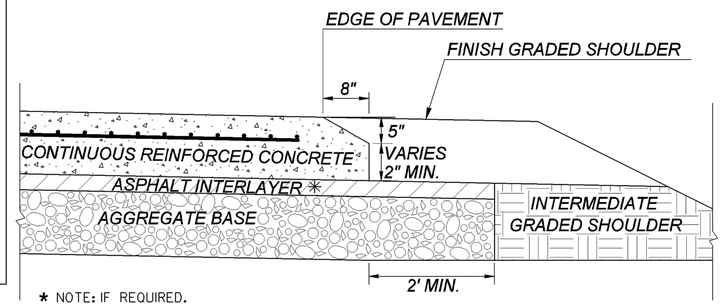
ADDITIONAL QUANTITIES:
SURFACE COURSE PAVING DEPTH (T)
$(T)^2$ (IN.) X 0.000441 TN/IN.-FT X LENGTH (FT) = _____TN

GENERAL NOTES:
1. THE SAFETY EDGE SHALL BE CONSTRUCTED AS AN INTEGRAL OPERATION OF THE ROADWAY PAVEMENT PLACEMENT PROCESS.

(ASPHALT PAVEMENT)

2. USE AN APPROVED MECHANICAL DEVICE THAT WILL:
   1. APPLY COMPACTIVE EFFORT TO THE ASPHALT MIXTURE TO ELIMINATE OBJECTABLE VOIDS AS THE MIXTURE PASSES THROUGH THE WEDGE DEVICE.
   2. PRODUCE A WEDGE WITH A UNIFORM TEXTURE, SHAPE, AND DENSITY WHILE AUTOMATICALLY ADJUSTING TO VARYING HEIGHTS ENCOUNTERED ALONG THE ROADWAY SHOULDER.
3. A SINGLE-PLATE STRIKE-OFF METHOD SHALL NOT BE USED FOR BITUMINOUS PAVING, AS THE SINGLE-PLATE STRIKE-OFF METHOD HAS BEEN FOUND TO PRODUCE A NON-DURABLE EDGE.
4. COMPACTION OF THE EDGE SHOULD NOT BE DONE WITH THE FIRST PASS OF THE ROLLER: WITH THE ROLLER STAYING OFF THE EDGE AT LEAST 6 INCHES. THIS IS IN ORDER TO ALLOW THE EDGE MIX TO SLIGHTLY COOL PRIOR TO COMPACTION.
5. SHORT SECTIONS OF HANDWORK ARE ALLOWED, WHEN NECESSARY, FOR TRANSITIONS AND TURNOUTS.

CONTINUOUS REINFORCED CONCRETE PAVEMENT



* NOTE: IF REQUIRED.

ADDITIONAL QUANTITIES:
CONCRETE
0.07407 SY/FT X LENGTH (FT) = _____SY

ASPHALT INTERLAYER, IF REQUIRED
(T) IN. X LENGTH (FT) X 0.004074 TN/IN.-FT = _____TN

AGGREGATE BASE (BASED ON 2.07 TN/CY)
(T) IN. X LENGTH (FT) X 0.0042592 TN/IN.-FT = _____TN

TC	REVISED ANGLE TOLERANCE	H-5-11	DATE
	ANGLE & ADDED NOTE.		
BY	REVISION		

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL
PAVEMENT EDGE TREATMENT
ASPHALT AND CONCRETE PAVEMENT

NO SCALE — SEPTEMBER 2011

DES.	B.A.S.
DRW.	C.L.O.
CHK.	D.G.P.
REVIEW	B.A.S.

NUMBER P-7

MORELAND ALTOBELLI — AN ATLAS COMPANY —
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	NAME	DATE
DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CONSTRUCTION DETAILS

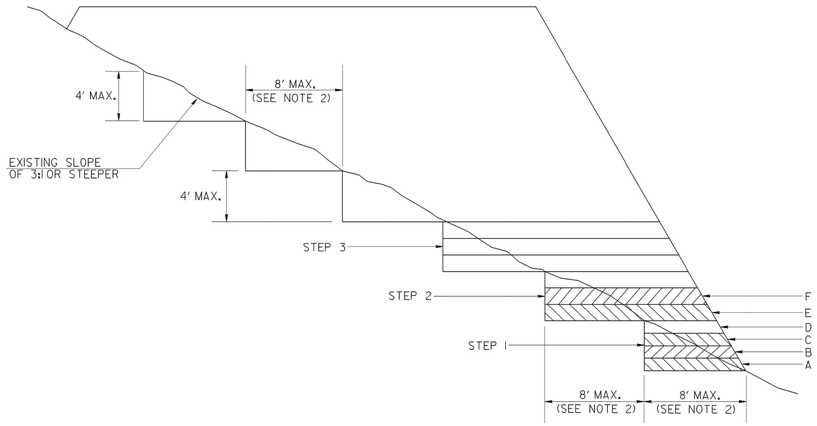
McNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER
40-0005

PROJECT: —

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

BENCHING DETAIL



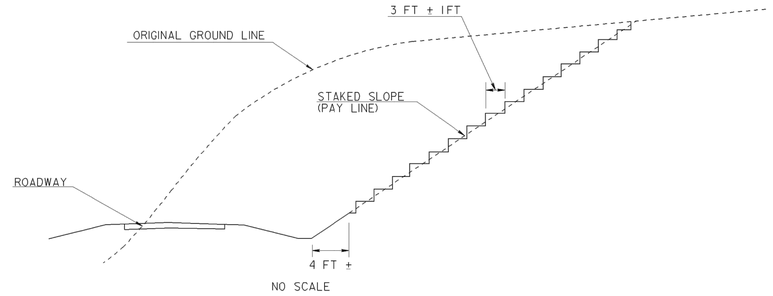
NOTES :

1. WHERE THE EMBANKMENT IS TO BE PLACED ON A HILLSIDE OR ANOTHER EXISTING EMBANKMENT HAVING A SLOPE OF 3 TO 1 OR STEEPER, THE FOUNDATION MUST BE BENCHED WHILE THE EMBANKMENT IS BEING MADE.(SEE DIAGRAM ABOVE)

2. THE DIAGRAM SHOWS THAT BEFORE LAYER "A" IS PLACED THE FIRST STEP (1) IS CUT INTO THE SLOPE A MAXIMUM DISTANCE OF ABOUT 8 FEET (ABOUT ¾ THE WIDTH OF THE TYPICIAL D-8 BULLDOZER BLADE). SUCCESSIVE LAYERS B, C, AND D ARE THEN PLACED BEFORE LAYER "E" IS PLACED, THE SECOND STEP IS CUT 8 FEET INTO THE SLOPE AND SUCCESSIVE LAYERS ARE AGAIN PLACED. IF IT IS ANTICIPATED THAT THE VERTICAL PART OF THE STEP WILL EXCEED 4 FEET IF A 8 FEET HORIZONTAL CUT IS MADE, THEN THE ACTUAL CUT STOPS WHEN THE VERTICAL PART REACHES A MAXIMUM OF 4 FEET ALLOWING THE HORIZONTAL DISTANCE TO VARY.

3. THE PROCESS OF BENCHING IS CONSIDERED INCIDENTAL TO THE ITEM OF UNCLASSIFIED EXCAVATION AND BORROW OR GRADING COMPLETE IN CONSTRUCTION OF THE EMBANKMENT AND NO ADDITIONAL MEASUREMENT OF QUANTITY OR PAYMENT WILL BE MADE FOR BENCHING.

SERRATED SLOPE DETAIL



NO SCALE

NOTES :

1. SLOPES STEEPER THAN 3:1 SHALL BE SERRATED.

2. WIDTH OF STEP SHALL BE 3 FT \ 1FT.

3. HEIGHT OF STEP IS A FUNCTION OF WIDTH AND STAKED SLOPE.

4. TREAD OF STEP SHALL BE APPROXIMATELY HORIZONTAL.

5. SERRATED SLOPES SHALL BE USED ON ALL PROJECTS IN DISTRICTS 1, 6, AND 7, EXCEPT WHERE SPECIFICALLY EXCEPTED BY THE GEO-TECHNICAL BUREAU IN THE SOIL SURVEY REPORT. SERRATED SLOPES SHALL NOT BE USED IN DISTRICTS 2, 3, 4, AND 5, UNLESS REQUIRED BY THE SOIL SURVEY.

BY	DATE	REVISION
G.L.O.	6-18-09	REVISED BENCHING DETAIL &
		REVISED TITLE BLOCK.
R.M.H.	1-28-82	GEN. REVISION

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL

SERRATED SLOPE DETAIL
BENCHING DETAIL

NO SCALE — JULY, 1981

NUMBER S-7

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MORELAND ALTOBELLI
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DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

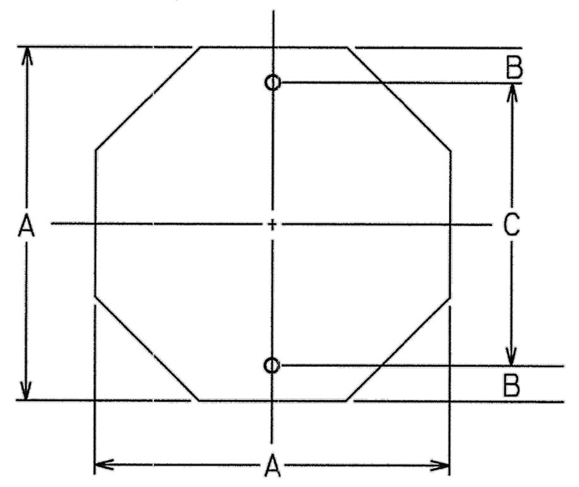
CONSTRUCTION DETAILS

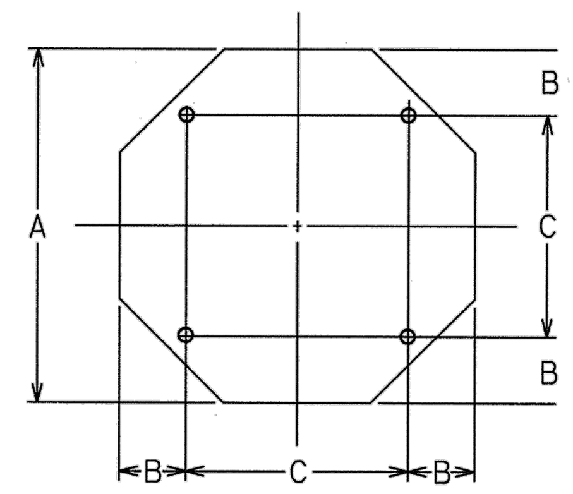
McNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER
40-0006

PROJECT:

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

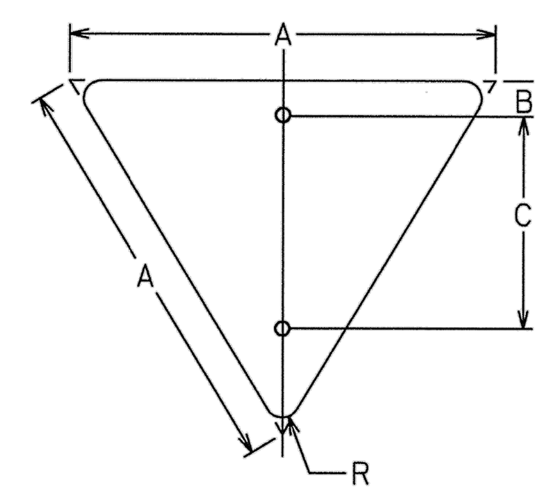


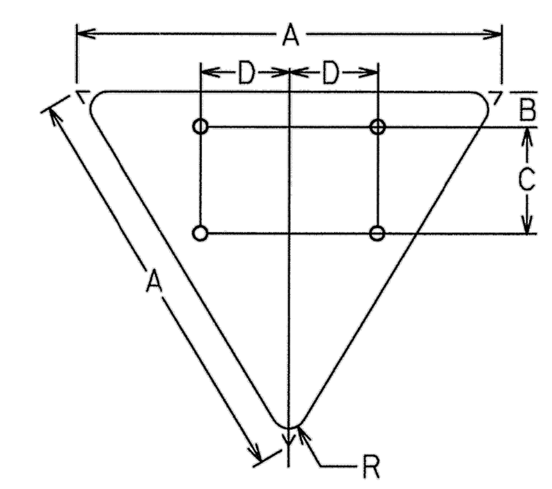


OCTAGON

A	B	C
24	3	18
30	3	24
36	3	30

A	B	C
48	9	30

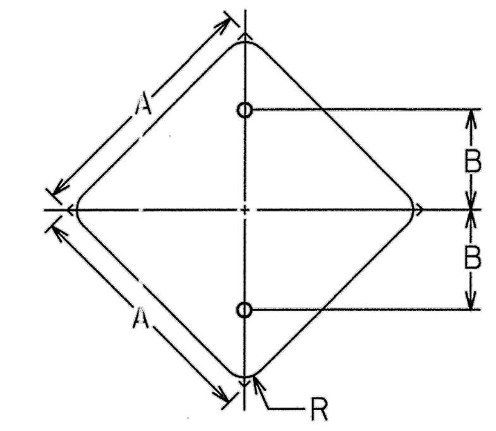


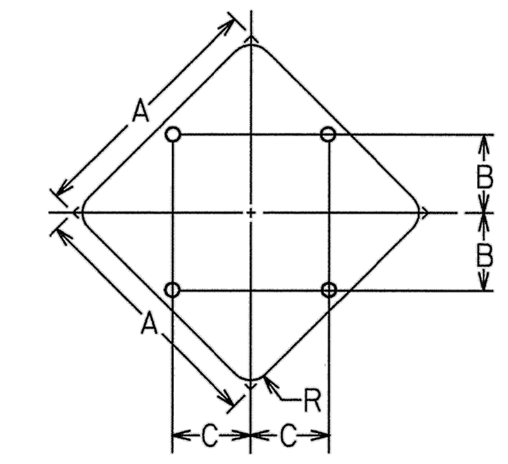


EQUILATERAL TRIANGLE

A	B	C	R
30	3	18	1 1/2
36	3	21	2
48	3	27	3

A	B	C	D	R
60	3	18	15	3



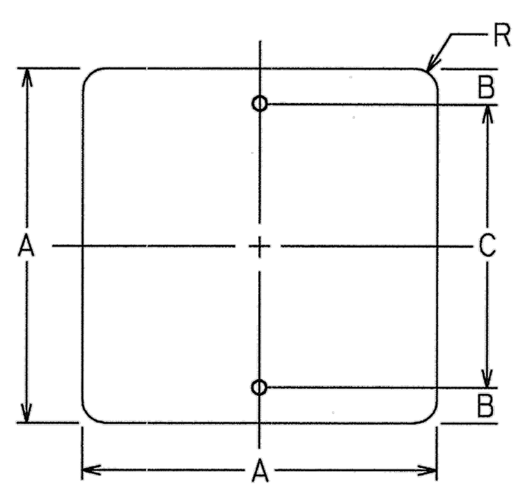


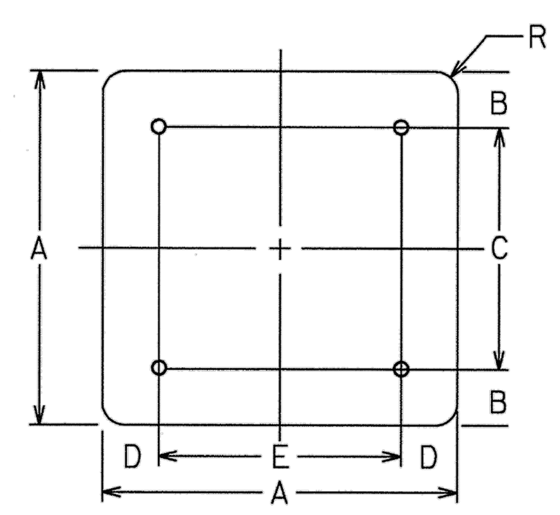
DIAMOND

A	B	R
24	12	1 1/2
30	15	1 7/8
36	18	2 1/4

A	B	C	R
*36	10	10	2 1/4
48	15	15	3
60	18	18	3 3/4

* FOR TWO POST ERECTION

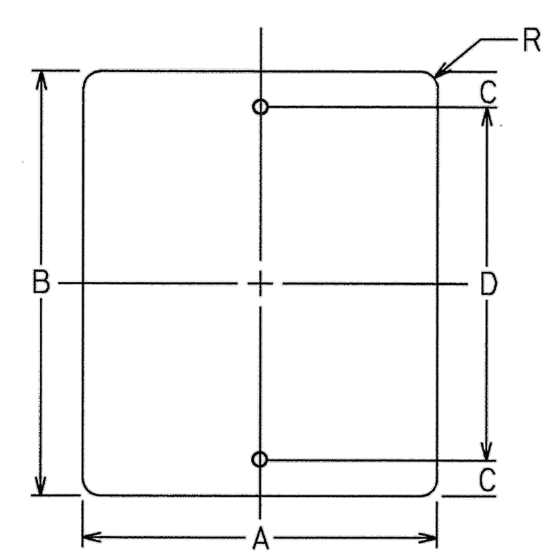


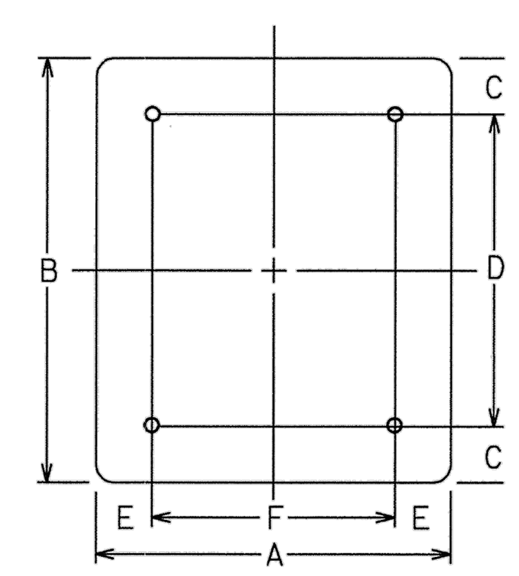


SQUARE

A	B	C	R
18	3	12	1 1/2
24	3	18	1 1/2
30	3	24	1 7/8

A	B	C	D	E	R
36	6	24	6	24	2 1/4
48	6	36	6	36	3

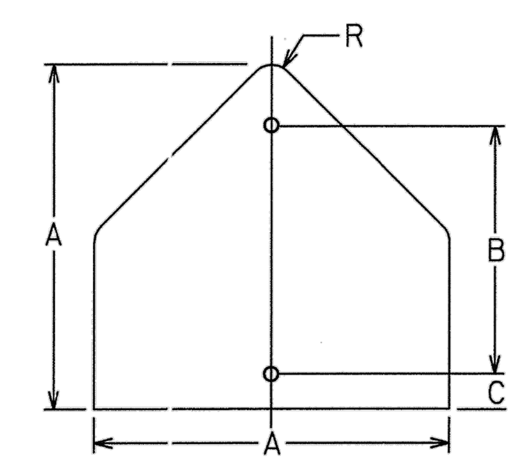




VERTICAL RECTANGLE

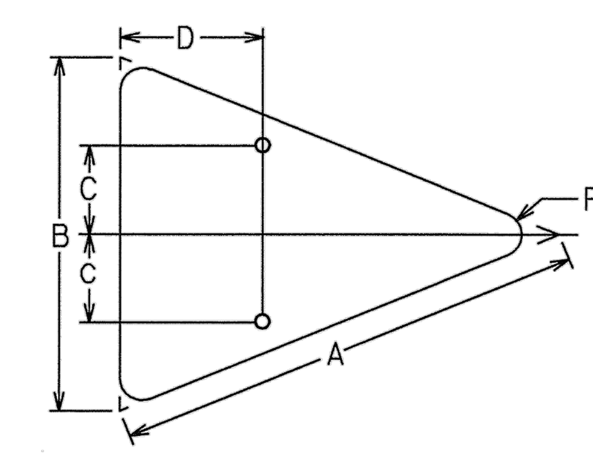
A	B	C	D	R
12	18	1 1/2	15	1 1/2
18	24	3	18	1 1/2
24	30	3	24	1 1/2
30	36	3	30	1 7/8

A	B	C	D	E	F	R
36	48	6	36	6	24	2 1/4
48	60	6	48	9	30	3



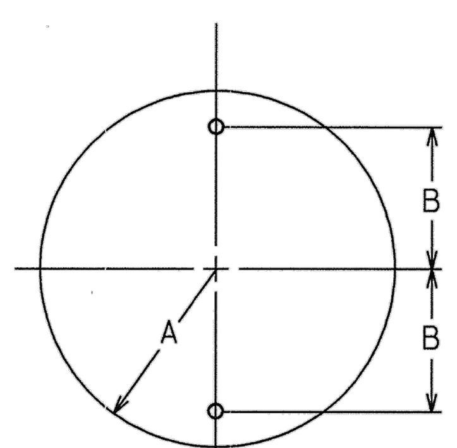
PENTAGON

A	B	C	R
30	21	3	1 7/8
36	24	3	2 1/4



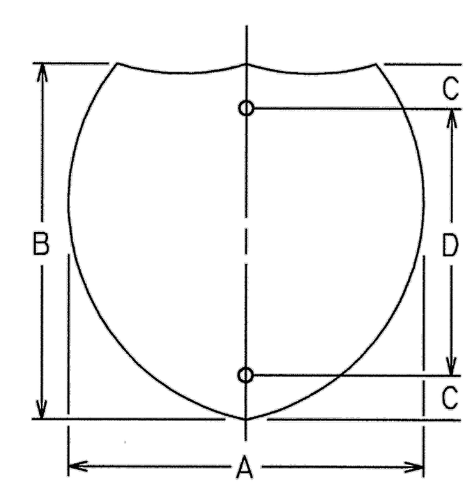
ISOSCELES TRIANGLE

A	B	C	D	R
40	30	7 1/2	12	1 7/8
48	36	9	15	2 1/4



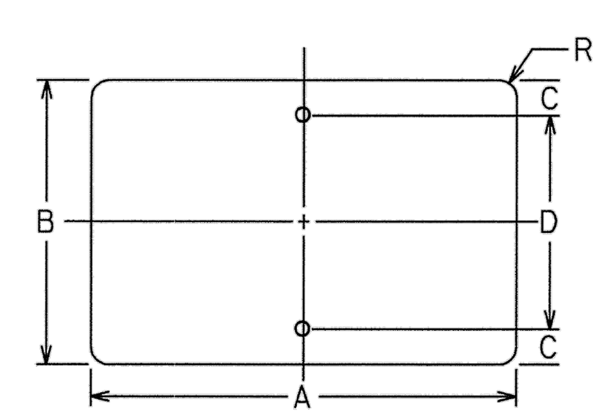
CIRCLE

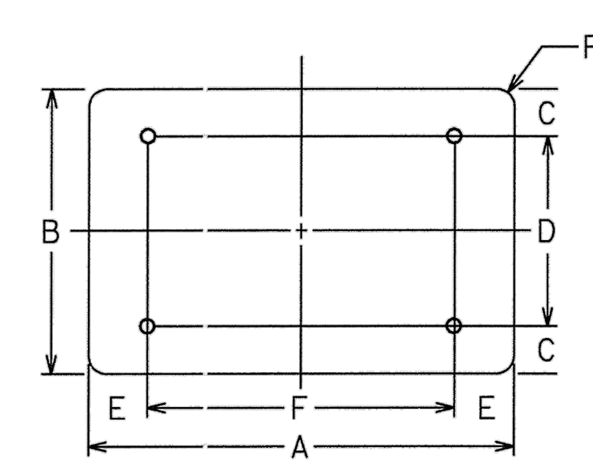
A	B
15	12
18	15



INTERSTATE SHIELD

A	B	C	D
24	24	3	18
30	24	3	18
36	36	6	24
45	36	6	24





HORIZONTAL RECTANGLE

A	B	C	D	R
21	15	1 1/2	12	1 1/2
24	12	1 1/2	9	1 1/2
24	18	3	12	1 1/2
30	15	1 1/2	12	1 1/2
30	24	3	18	1 1/2
36	12	1 1/2	9	1 1/2
36	24	3	18	1 1/2
48	12	1 1/2	9	1 1/2
48	24	3	18	1 7/8

A	B	C	D	E	F	R
48	36	6	24	9	30	2 1/4
60	24	3	18	12	36	1 1/2
60	36	6	24	12	36	2 1/4

DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC SAFETY & DESIGN

DETAILS OF SIGN PLATES

NO SCALE JANUARY 2000

PCBOTB

T-1

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MORELAND ALTOBELLI — AN ATLAS COMPANY —
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	NAME	DATE
DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

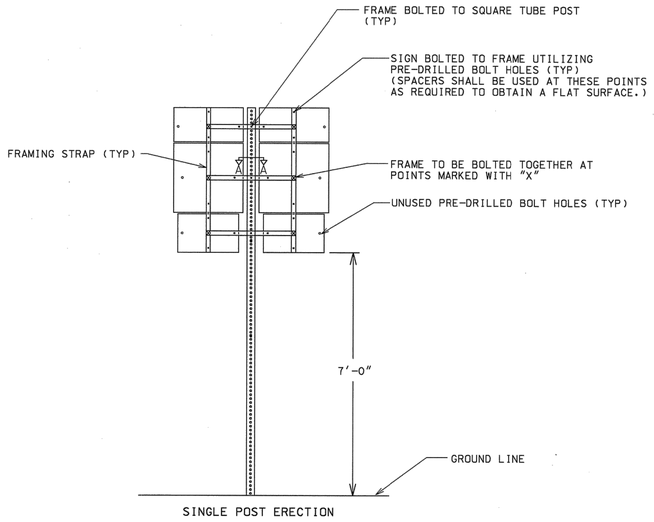
CONSTRUCTION DETAILS

McNUTT ROAD AND McNUTT WAY

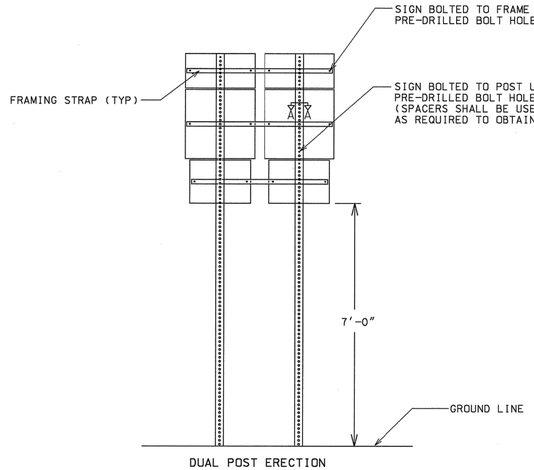
DRAWING NUMBER
40-0007

PROJECT: —

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

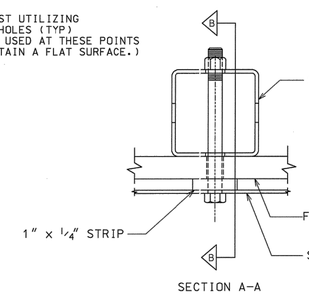


SINGLE POST ERECTION

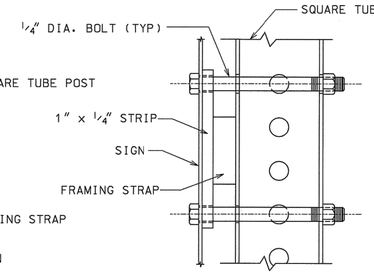


DUAL POST ERECTION

TYPICAL ASSEMBLY UNIT (BACK VIEW)



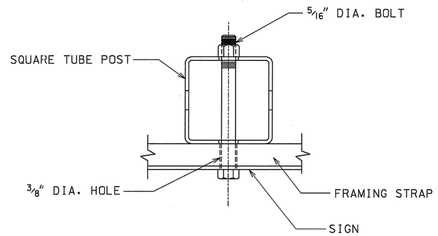
SECTION A-A



SECTION B-B (ROTATED 90°)

OPTION #1 - FRAMING STRAP WITHOUT MOUNTING HOLE

(ALL FRAMING STRAPS SHALL BE 1 1/2" x 1/2" x REQUIRED LENGTH)



OPTION #2 - FRAMING STRAP WITH MOUNTING HOLE

(ALL FRAMING STRAPS SHALL BE 2" x 1/2" x REQUIRED LENGTH)

GENERAL NOTES:

1. STYLE OF FRAMING IS OPTIONAL. ALTERNATE DESIGNS ARE ACCEPTABLE UPON APPROVAL OF THE ENGINEER. FRAME SHALL BE DESIGNED SO AS TO HOLD THE ASSEMBLY IN A FIXED, RIGID POSITION.
2. FRAMING STRAPS SHALL BE GALVANIZED STEEL OR ALUMINUM.
3. STEEL SHALL BE A.S.T.M. DESIGNATION A-283, GRADE D, GALVANIZED IN ACCORDANCE WITH A.S.T.M. DESIGNATION A-123.
4. ALUMINUM SHALL BE ALLOY 6061-T6.
5. BOLTS, NUTS, WASHERS, AND SPACERS SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
6. FRAMING STRAPS ON A DUAL POST ERECTION SHALL NOT BE BOLTED TO THE POST.

DATE	REVISIONS
3/31/00	CHANGED U-CHANNEL POST TO SQUARE TUBE POST

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC OPERATIONS

DETAILS FOR TYPICAL FRAMING

NO SCALE JANUARY 2000

PCBDTB

T-2

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CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

McNUTT ROAD ROAD CONSTRUCTION PLANS

REVISION DATES

CONSTRUCTION DETAILS

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER

40-0008

PROJECT:

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

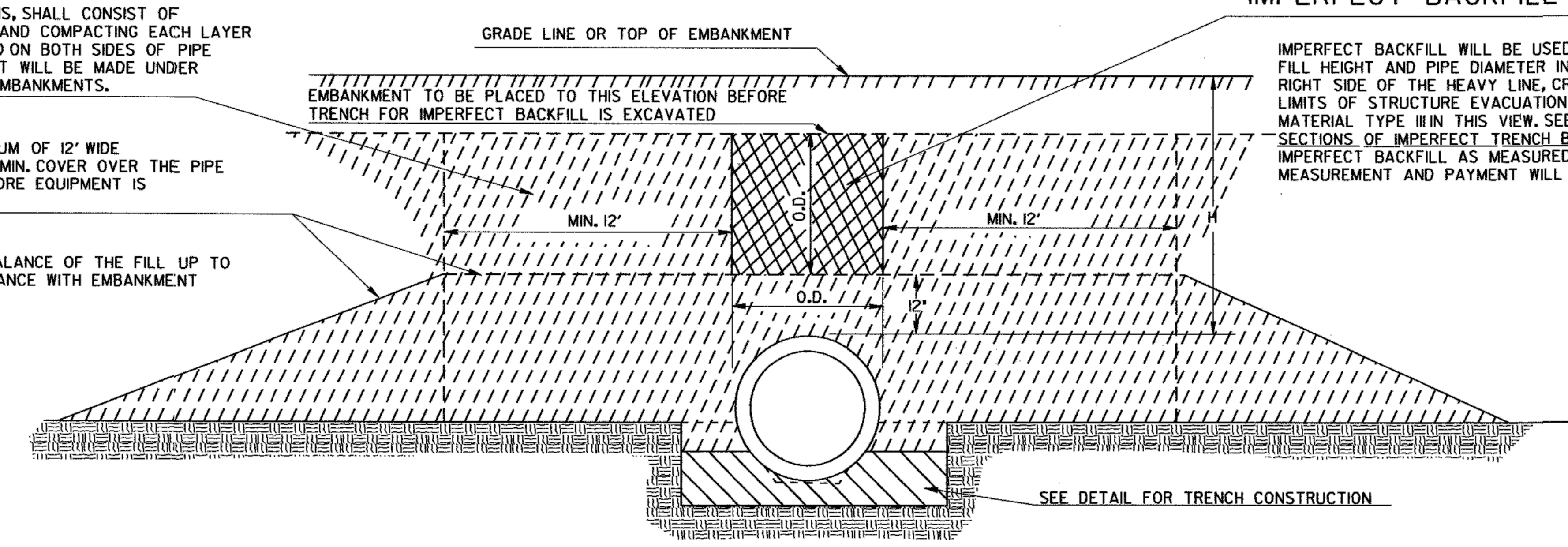
NORMAL BACKFILL

BACKFILL, AS SHOWN BY THE BROKEN LINE SECTIONS, SHALL CONSIST OF PLACING COMPACTABLE SOIL IN 6" (LOOSE) LAYERS AND COMPACTING EACH LAYER (ACCORDING TO GEORGIA STANDARD SPECIFICATIONS) ON BOTH SIDES OF PIPE FOR ITS FULL LENGTH. MEASUREMENT AND PAYMENT WILL BE MADE UNDER ROADWAY EXCAVATION ITEMS FOR FORMATION OF EMBANKMENTS.

NORMAL EMBANKMENT SHALL BE PLACED A MINIMUM OF 12' WIDE ON EACH SIDE OF THE PIPE AND AT LEAST THE MIN. COVER OVER THE PIPE AND COMPACTED TO THE REQUIRED DENSITY BEFORE EQUIPMENT IS ALLOWED TO CROSS.

AFTER BACKFILL HAS BEEN COMPACTED, THE BALANCE OF THE FILL UP TO GRADE LINE SHALL BE CONSTUCTED IN ACCORDANCE WITH EMBANKMENT SPECIFICATIONS

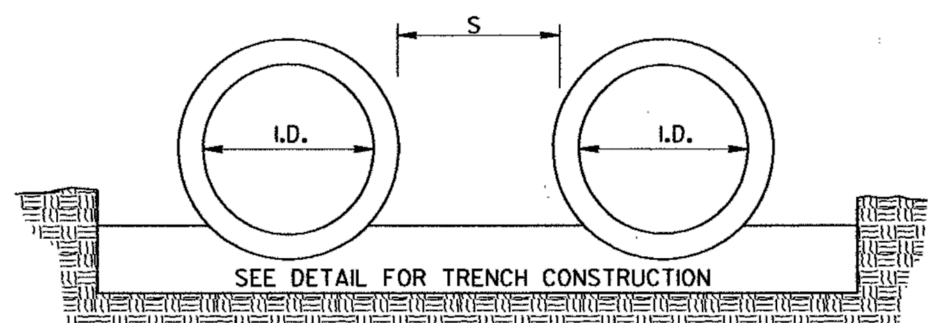
LONGITUDINAL SECTION OF IMPERFECT TRENCH BACKFILL AND BACKFILL METHODS



IMPERFECT BACKFILL

IMPERFECT BACKFILL WILL BE USED WITH CONCRETE PIPE IF FILL HEIGHT AND PIPE DIAMETER IN TABLE NO. 1 FALLS ON THE RIGHT SIDE OF THE HEAVY LINE, CROSS HATCHED AREA SHOWS LIMITS OF STRUCTURE EVACUATION AND IMPERFECT BACKFILL MATERIAL TYPE III IN THIS VIEW. SEE DETAILS BELOW CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL FOR LIMITS OF IMPERFECT BACKFILL AS MEASURED OVER THE PIPE LENGTHWISE. MEASUREMENT AND PAYMENT WILL BE CONFINED TO THESE LIMITS.

MULTIPLE PIPE CULVERT SPACING

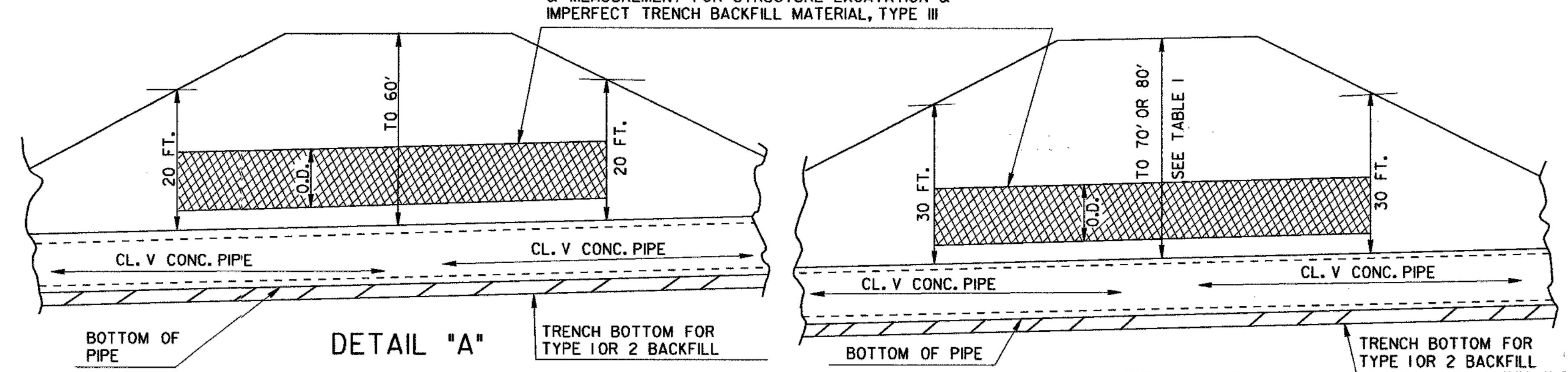


S=ONE INSIDE DIAMETER OF PIPE, OR 3 FEET, WHICHEVER IS SMALLER.
FOR PIPE ARCH CULVERTS, SUBSTITUTE SPAN FOR INSIDE DIAMETER.

NOTE:
FOR MULTIPLE LINES OF C.M. PIPE WITH METAL FLARED END SECTIONS, S MAY BE INCREASED ENOUGH TO AVOID OVERLAP OF END SECTION WINGTIPS. LOCATION OF METAL END SECTION SHOULD BE DETERMINED BEFORE PLACEMENT OF PIPE.

CROSS SECTIONS OF IMPERFECT TRENCH BACKFILL

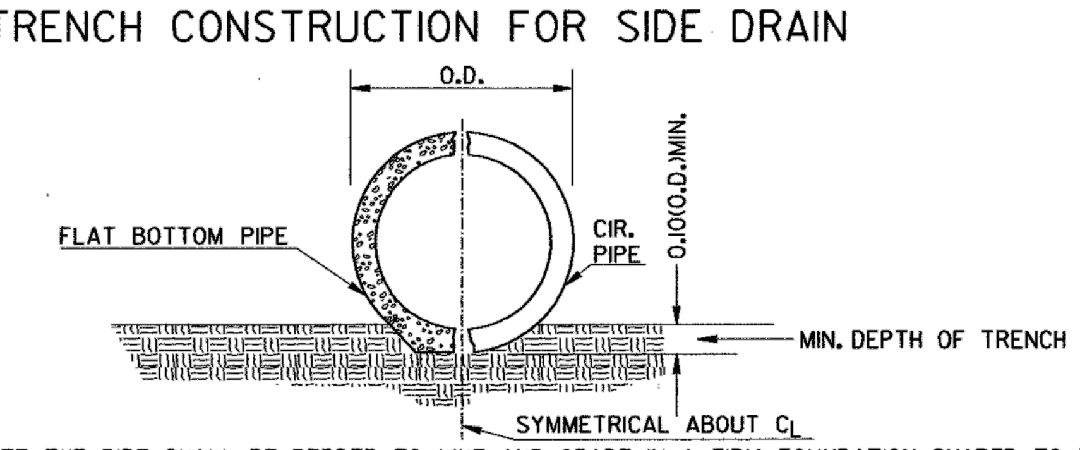
CROSS HATCHED AREAS SHOW LIMITS OF CONSTRUCTION & MEASUREMENT FOR STRUCTURE EXCAVATION & IMPERFECT TRENCH BACKFILL MATERIAL, TYPE III



(FOR CONCRETE PIPE DIAMETERS 78" & 84", WITH FILL HEIGHTS OVER 20 FT.)

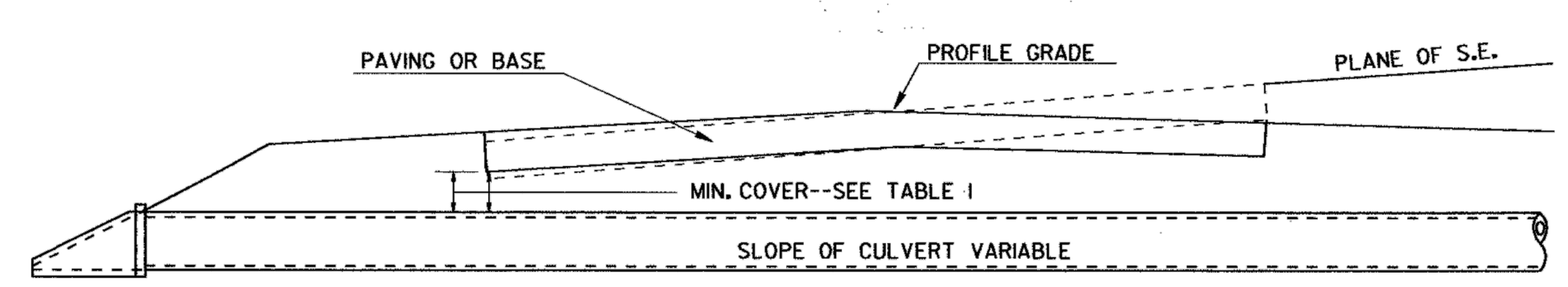
(FOR CONCRETE PIPE DIAMETERS 72" AND LESS WITH FILL HEIGHTS OVER 30 FT.)

TRENCH CONSTRUCTION FOR SIDE DRAIN



NOTE: THE PIPE SHALL BE BEDDED TO LINE AND GRADE IN A FIRM FOUNDATION SHAPED TO FIT THE LOWER PART OF THE PIPE EXTERIOR. WHERE ROCK EXISTS, EXCAVATE AND BACKFILL WITH COMPRESSABLE MATERIAL (UNCLASSIFIED EXCAVATION) A MINIMUM OF 6" BELOW THE PIPE.

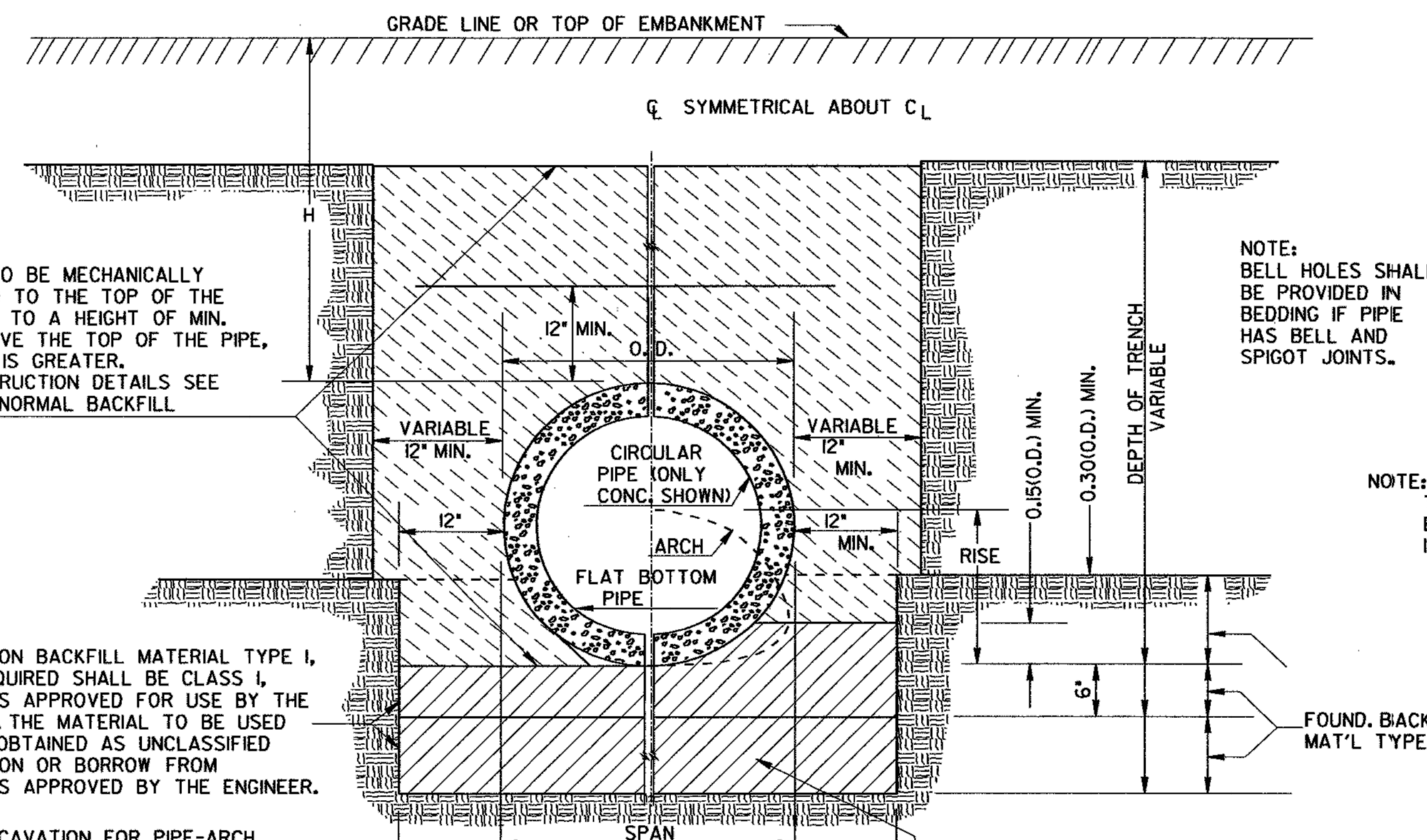
DETAIL SHOWING MINIMUM COVER FOR PIPE CULVERTS



NOTE:

1. FOR FILL HEIGHT TABLES SEE SHEET 2 OF 3 AND SHEET 3 OF 3.
2. ONLY ONE CLASS OR THICKNESS OF PIPE WILL BE SPECIFIED FOR EACH INDIVIDUAL LOCATION. THE CLASS OR THICKNESS WILL BE DETERMINED BY THE MAXIMUM HEIGHT OF FILL.

TRENCH CONSTRUCTION FOR STORM DRAIN.



BACKFILL TO BE MECHANICALLY COMPACTED TO THE TOP OF THE TRENCH OR TO A HEIGHT OF MIN. COVER ABOVE THE TOP OF THE PIPE, WHICHEVER IS GREATER. FOR CONSTRUCTION DETAILS SEE NOTE FOR NORMAL BACKFILL

NOTE:
BELL HOLES SHALL BE PROVIDED IN BEDDING IF PIPE HAS BELL AND SPIGOT JOINTS.

NOTE:
TRENCH CONSTRUCTION IS REQUIRED FOR BOTH NORMAL OR IMPERFECT BACKFILL. ALL PIPES WITH BELL & SPIGOT JOINTS SHALL HAVE BELL HOLES IN BEDDING.

FOUNDATION BACKFILL MATERIAL TYPE I, WHEN REQUIRED SHALL BE CLASS I, OR II SOILS APPROVED FOR USE BY THE ENGINEER. THE MATERIAL TO BE USED WILL BE OBTAINED AS UNCLASSIFIED EXCAVATION OR BORROW FROM LOCATIONS APPROVED BY THE ENGINEER.

FOR EXCAVATION FOR PIPE-ARCH CULVERTS SUBSTITUTE SPAN AND RISE FOR OUTSIDE DIAMETER OF PIPE IN HORIZONTAL AND VERTICAL DIMENSIONS SPECIFIED IN DETAIL.

NOTE: PIPE SHALL BE BEDDED IN A FOUNDATION SHAPED TO FIT THE LOWER PART OF PIPE EXTERIOR.

NOTE: WHERE AN INCOMPRESSABLE FOUNDATION EXISTS, EXCAVATE AN ADDITIONAL 6". WHERE AN UNSTABLE FOUNDATION MATERIAL IS ENCOUNTERED, EXCAVATE AN ADDITIONAL DEPTH AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 1 OF 3
(TRENCH CONSTRUCTION, BEDDING, BACKFILLING)

NO SCALE — REV. & REDR.: SEPT., 2001

DES. ___ DRW. ___ TRA. ___ CHK. ___ (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR. (APPROVED) CHIEF ENGINEER

NUMBER 1030D

REVISION — DATE — BY

D:\Data\Projects\McNutt Road\Design\McNutt Road Construction Details.dwg, 5/27/2021 3:38:26 PM

6/18/2007 10:39:20 AM \\GDOT-DSN1\GDPLOT\GCF\go_fiff_output.gcf gowens W:\GARY\1030d\page 2.prf

TABLE NO. 1 ROUND PIPE - CONCRETE - CORRUGATED STEEL - CORRUGATED ALUMINUM

MINIMUM CLASS OF CONCRETE OR MINIMUM THICKNESS OF STEEL AND ALUMINUM

PIPE DIAMETER (INCHES)	TYPE	MINIMUM COVER (INCHES)	HEIGHT OF FILL IN FEET ABOVE TOP OF PIPE												PIPE DIAMETER (INCHES)
			1 - 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90	
12	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		12
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075	
15	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		15
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.105	
18	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		18
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.105	.105	.105	.105	
24	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		24
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	
	ALUM 1	12	.060	.060	.060	.075	.075	.075	.075	.105	.105	.105	.105		
30	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		30
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	
	ALUM 1	12	.075	.075	.075	.075	.075	.105	.105	.105	.135	.135			
36	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		36
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	.138	
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	
	ALUM 1	12	.075	.105	.105	.105	.105	.105	.135	.135	.135	.135			
	ALUM 2	12	.060	.060	.060	.060	.075	.075	.105	.105	.105	.135			
42	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		42
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.079	.109	.109	.109	.138	
	ALUM 1	12	.105	.105	.135	.135	.164	.164							
	ALUM 2	12	.060	.060	.060	.075	.075	.105	.105	.105	.135	.135			
48	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		48
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	.168	
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	
	ALUM 1	12	.105	.105	.135	.164	.164	.164							
	ALUM 2	12	.060	.060	.060	.075	.075	.105	.105	.135	.135	.164	.164		
54	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		54
	STEEL 1	12	.079	.079	.079	.079	.079	.079	.079	.109	.138	.138	.168		
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	.168	
	ALUM 1	15	.105	.105	.135	.164	.164	.164							
	ALUM 2	15	.060	.060	.060	.075	.075	.105	.135	.135	.164	.164			
60	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V		60
	STEEL 1	12	.109	.109	.109	.109	.109	.109	.109	.109	.138	.168			
	STEEL 2	12	.064	.064	.064	.064	.064	.079	.079	.109	.138	.138	.168	.168	
	ALUM 1	15	.135	.135	.164	.164	.164	.164							
	ALUM 2	15	.060	.060	.075	.105	.105	.135	.135	.164	.164				
66	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V			66
	STEEL 1	12	.138	.138	.138	.138	.138	.138	.138	.138	.168	.168			
	STEEL 2	12	.064	.064	.064	.064	.064	.079	.109	.109	.138	.168	.168		
	ALUM 1	18	.164	.164	.164	.164	.164								
	ALUM 2	18	.075	.075	.105	.105	.135	.135	.164	.164					
72	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V			72
	STEEL 1	12	.138	.138	.138	.138	.138	.138	.138	.138	.168				
	STEEL 2	12	.064	.064	.064	.064	.079	.109	.109	.138	.138	.168			
	ALUM 1	18	.164	.164	.164	.164	.164								
	ALUM 2	18	.075	.075	.105	.105	.135	.164	.164	.164					
78	CONCRETE	12	III	III	IV	V	V	V	V	V	V				78
	STEEL 1	15	.168	.168	.168	.168	.168	.168	.168	.168					
	STEEL 2	15	.064	.064	.064	.064	.079	.109	.109	.138	.168	.168			
	ALUM 2	21	.075	.075	.105	.105	.135	.164	.164						
84	CONCRETE	12	III	III	IV	V	V	V	V	V	V				84
	STEEL 1	15	.168	.168	.168	.168	.168	.168	.168	.168					
	STEEL 2	15	.064	.064	.064	.079	.079	.109	.109	.138	.168				
	ALUM 2	21	.105	.105	.105	.135	.135	.164	.164						
90	CONCRETE	12	III	III											90
	STEEL 2	18	.064	.064	.064	.079	.109	.109	.138	.138	.168				
	ALUM 2	24	.105	.105	.135	.135	.164								
96	CONCRETE	12	III	III											96
	STEEL 2	18	.079	.079	.079	.079	.109	.109	.138	.168					
	ALUM 2	24	.105	.105	.135	.135	.164								
102	CONCRETE	12	III	III											102
	STEEL 2	24	.079	.079	.079	.109	.109	.138	.138	.168					
	ALUM 2	24	.135	.164	.164										
108	CONCRETE	12	III	III											108
	STEEL 2	24	.109	.109	.109	.109	.109	.138	.138	.168					
	ALUM 2	24	.135	.164											
114	CONCRETE														114
	STEEL 2	24	.109	.109	.109	.109	.109	.138	.168						
	ALUM 2	24	.164	.164											
120	CONCRETE														120
	STEEL 2	24	.109	.109	.109	.109	.138	.138	.168						
	ALUM 2	24	.164	.164											

IMPERFECT BACKFILL IS NOT REQUIRED FOR CONDTIONS SHOWN ON THE LEFT SIDE OF THE HEAVY LINE. USE NORMAL BACKFILL.

FOR CONDITIONS TO THE RIGHT OF THE HEAVY LINE, CLASS V CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO DETAIL "A" OR "B" ON SHEET 1 OF 3.

TABLE NO.3-(INFORMATION ONLY)

	COR. METAL THICKNESS	EQUIVALENT GAGE
STEEL	.064	16
	0.079	14
	0.109	12
	0.138	10
	0.168	8
ALUMINUM	0.060	16
	0.075	14
	0.105	12
	0.135	10
	0.164	8

STEEL 1 OR ALUM 1 DENOTES CORRUGATION PROFILE 2 2/3" X 1/2"

STEEL 2 OR ALUM 2 DENOTES CORRUGATION PROFILE 3" X 1" (OR 5" X 1" FOR STEEL PIPE ONLY)

ALL STEEL AND ALUMINUM PIPE SHALL BE LOCK-SEAM OR WELDED-SEAM (HELICAL) CONSTRUCTION.

MINIMUM COVER VALUES APPLY TO HS-20 LIVE LOAD. MINIMUM COVER NEEDED FOR CONSTRUCTION VEHICLES MAY BE GREATER AND IS THE RESPONSIBILITY OF THE CONTRACTOR.

TRENCH CONSTRUCTION IS REQUIRED FOR CONDITIONS ON BOTH SIDES OF HEAVY LINE. SEE SHEET 1 OF 3.

FOR CONDITIONS TO RIGHT OF HEAVY LINE, CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO SPECIFICATIONS AND THIS STANDARD.

TABLE VALUES FOR ALUMINUM CORRUGATED PIPE (OR ALUMINUM SPIRAL RIB PIPE) ARE COMPUTED BASED UPON ALCLAD ALLOY 3004-H34 HAVING MINIMUM YIELD STRENGTH, fy=24,000 PSI. IF ALUMINUM PIPE IS OTHERWISE FURNISHED AS 3004-H32 (fy=20,000 PSI), THE TABLE NO. 1 ALLOWABLE FILL HEIGHTS SHALL BE ADJUSTED AS FOLLOWS:

A. ALL MINIMUM COVER VALUES SHALL BE INCREASED BY 15 PERCENT. (EXAMPLE: 12 INCHES BECOMES 13.8 INCHES)
B. ALL HEIGHT OF FILL VALUES SHALL BE DECREASED BY 15 PERCENT. (EXAMPLE: 35-40 FEET BECOMES 29.7-34.0 FEET)

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

BY	REVISION	DATE
	GEN. REV. NOTES	9-26-01
GJP	ADDED SEAM CONST. NOTE	3-9-99

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 2 OF 3
(FILL HEIGHTS FOR CONCRETE & CORRUGATED METAL PIPE)

NO SCALE
OCTOBER 21, 1998

DES. ____
DRW. ____
TRA. ____
CHK. ____

(SUBMITTED) James A. Kennedy
STATE ROAD & AIRPORT DESIGN ENGR.
(APPROVED)
CHIEF ENGINEER

NUMBER
1030D

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327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta
GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CONSTRUCTION DETAILS

McNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER
41-0002

PROJECT:

TABLE NO. 1 R RIB STEEL - SPIRAL RIB ALUMINUM
MINIMUM THICKNESS OF STEEL AND ALUMINUM

PIPE DIAMETER (INCHES)	TYPE	MINIMUM COVER (INCHES)	HEIGHT OF FILL (FEET) ABOVE TOP OF PIPE							
			1-10	10-15	15-20	20-25	25-30	30-35	35-40	40-50	50-60	60-70	70-80	80-90
12	STEEL R	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	
	ALUM R	12	.060	.060	.060	.060	.060	.060	.075	.075				
15	STEEL R	12	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	
	ALUM R	12	.060	.060	.060	.060	.060	.075	.075	.105	.105			
18	STEEL R	12	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	
	ALUM R	15	.060	.060	.060	.060	.060	.075	.075	.105	.105			
24	STEEL R	12	.064	.064	.064	.064	.064	.064	.079	.109	.109	.109		
	ALUM R	18	.060	.060	.060	.060	.075	.105	.105	.135				
30	STEEL R	12	.064	.064	.064	.064	.064	.079	.109	.109	.109			
	ALUM R	21	.075	.075	.075	.075	.105	.105	.135					
36	STEEL R	12	.064	.064	.064	.064	.064	.079	.109	.109	.109			
	ALUM R	24	.075	.075	.075	.075	.105	.105	.135					
42	STEEL R	12	.064	.064	.064	.064	.079	.109	.109	.109				
	ALUM R	24	.075	.075	.075	.105	.105	.135	.135					
48	STEEL R	12	.064	.064	.064	.079	.109	.109	.109					
	ALUM R	24	.105	.105	.105	.105	.135	.135	.135					
54	STEEL R	15	.064	.064	.064	.079	.109	.109	.109					
	ALUM R	24	.105	.105	.105	.105	.135	.135	.135					
60	STEEL R	15	.079	.079	.079	.079	.109	.109	.109					
	ALUM R	24	.105	.105	.105	.105	.135	.135	.135					
66	STEEL R	18	.079	.079	.079	.109	.109	.109	.109					
	ALUM R	24	.135	.135	.135	.135	.135	.135	.135					
72	STEEL R	18	.109	.109	.109	.109	.109	.109	.109					
	ALUM R	27	.135	.135	.135	.135	.135	.135	.135					
78	STEEL R	21	.109	.109	.109	.109	.109	.109	.109					
84	STEEL R	21	.109	.109	.109	.109	.109	.109	.109					
90														
96														
102														
108														
114														
120														

R DENOTES SPIRAL RIB PROFILE 3/4" X 3/4" X 7-1/2"

TABLE VALUES FOR ALUMINUM SPIRAL RIB PIPE ARE COMPUTED BASED UPON ALCLAD ALLOY 3004-H34 HAVING MINIMUM YIELD STRENGTH, f_y=24,000 PSI.
IF ALUMINUM PIPE IS OTHERWISE FURNISHED AS 3004-H32 (f_y=20,000 PSI), ALLOWABLE FILL HEIGHTS SHALL BE ADJUSTED AS FOLLOWS:

A. ALL MINIMUM COVER VALUES SHALL BE INCREASED BY 15 PERCENT. (EXAMPLE: 12 IN. BECOMES 13.8 IN.)
B. ALL HEIGHT OF FILL VALUES SHALL BE DECREASED BY 15 PERCENT. (EXAMPLE: 35-40 FT. BECOMES 29.7-34.0 FT.)

MINIMUM COVER VALUES APPLY TO HS-20 LIVE LOAD. MINIMUM COVER NEEDED FOR CONSTRUCTION VEHICLES MAY BE GREATER AND IS THE RESPONSIBILITY OF THE CONTRACTOR.
TRENCH CONSTRUCTION IS REQUIRED FOR ALL INSTALLATIONS.

TABLE NO. 2 (PIPE-ARCH)

TABLE SHOWING MINIMUM THICKNESS IN INCHES OF CORRUGATED STEEL AND CORRUGATED ALUMINUM PIPE-ARCH AND MAXIMUM HEIGHTS OF FILL IN FEET ABOVE THE TOP OF THE PIPE-ARCH.

DIAMETER OF PIPE OF EQUAL PERIPHERY INCH	NOM.-MIN. SPAN INCH	NOM.-MIN. RISE INCH	MIN. THICKNESS (INCHES) CORR. STEEL (2) 0	1	CORR. ALUMINUM	MIN. COVER (INCHES)	MAX. HT. FILL (FEET)
15	17	13	.064		.060	18	13
						15	15
18	21	15	.064		.060	18	12
						15	14
21	24	18	.064		.060	18	10
						15	13
24	28	20	.064		.075	18	9
						15	11
30	35	24	.064		.075	18	9
						15	9
36	42	29	.064		.105	18	9
						15	7
	40	31		.079		18	12
						15	7
42	49	33	.079		.105	18	7
						15	7
	46	36	.079		.105	18	12
						15	7
	57	38	.109			18	12
						15	7
48	53	41	.109		.135	18	7
						15	7
	64	43		.109		18	12
						15	7
54	60	46	.079		.135	18	7
						15	7
	71	47		.138		18	12
						15	7
60	66	51	.079		.164	18	7
						15	5
	77	52		.168		18	8
						15	5
66	73	55	.079		.168	18	7
						15	4
77	83	57		.168		18	12
						15	4
78	81	59	.079		.168	18	7
						15	4
84	88	62	.079		.168	18	7
						15	4
90	95	65	.079		.168	18	12
						15	4
	103	71		.109		18	12
						15	11
						24	11

NOTE FOR TABLE NO. 2
ALTERNATE SPAN-RISE COMBINATIONS FOR PIPE-ARCHES, HAVING EQUAL PERIPHERY TO THAT SHOWN, MAY BE SUBSTITUED IF LISTED IN AASHTO SPECIFICATION.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

REVISION	BY	DATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 3 OF 3
(FILL HEIGHTS FOR SPIRAL RIB METAL PIPE & FOR PIPE ARCH)

NO SCALE — SEPT., 2001

DESIGNED
TRACED
CHECKED
REVISED

(SUBMITTED) STATE ROAD & SUPPORT DESIGN ENGINEER
(APPROVED) CHIEF ENGINEER

NUMBER 1030D

6/18/2007 10:38:56 AM \\GDOT-DSN\GDPLOT\DCF\gs_tff_output.dcf gowens M:\DART\1030d\pages.prf

MORELAND ALTOBELLI — AN ATLAS COMPANY —
Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CONSTRUCTION DETAILS
McNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER
41-0003

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PROJECT: ___

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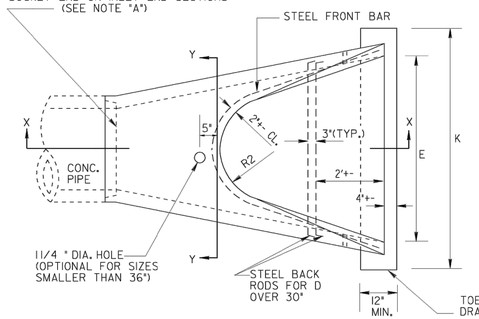
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

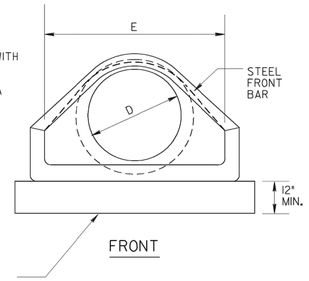
CONCRETE FLARED END SECTION

END SECTION TO PIPE JOINT SHOWN AS TYPICAL:
HUB END ON OUTLET END SECTIONS;
SOCKET END ON INLET END SECTIONS
(SEE NOTE "A")



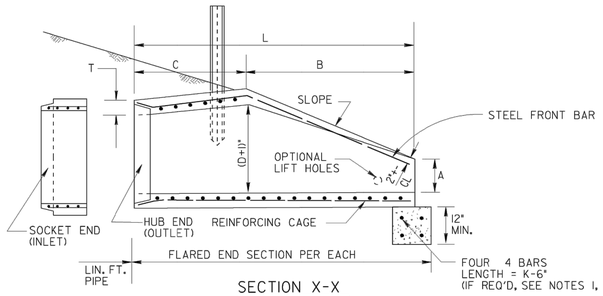
PLAN

INSTALLATION: (D OVER 30") CABLE, CHAIN, OR LIFTING PIN WILL EXTEND THRU 1 1/4 " HOLE WITH A PLATE OR REBAR CONNECTED INSIDE THE CONC. SECTION TO PROVIDE ADEQUATE BEARING AREA OR A LIFTING ASSEMBLY DEVICE MAY BE USED TO GIVE 3 LIFT POINTS. HOOKS CONNECTED DIRECTLY TO CONCRETE IS NOT PERMITTED. DAMAGE FROM IMPROPER HANDLING SHALL BE CAUSE FOR REJECTION.

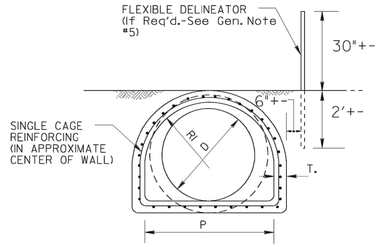


FRONT

NOTE: DO NOT CUT CONCRETE PIPE. USE FULL LENGTH SECTIONS ONLY. WARP SLOPE TO CONFORM WITH PIPE LENGTH AND END SECTION.



SECTION X-X



SECTION Y-Y

REINFORCING CAGE:

(1.) WIRE FABRIC HAVING EQUAL STEEL AREA AS INNER CAGE FOR CLASS II PIPE, AASHTO M-170.
(2.) ALTERNATE: # 3 BARS SPACED 12"+LONGITUDINALLY WITH # 2 BARS TRANVERSELY AT 6' O.C. MAX. SPACING, SPOT WELDED OR TIED TO FORM CAGE. (BACK RODS MAY BE OMITTED.)

NOTE "A":
CONTRACTOR WILL INFORM PRODUCER IF CONCRETE FLARED END SECTION IS FOR INLET OR FOR OUTLET END. SOCKET (TONGUE OR SPIGOT) END IS REQUIRED FOR INLETS. HUB (GROOVE OR BELL) END IS REQUIRED FOR OUTLETS. SOCKET TO SOCKET OR HUB TO HUB JOINT WILL NOT BE ACCEPTED UNLESS A REINFORCED CONCRETE COLLAR IS BUILT AROUND THE JOINT WITH NO PAYMENT BEING MADE FOR THE COLLAR.
FLARED END SECTIONS SHALL BE JOINTED TO PIPE WITH ALL SPACE IN THE JOINT FILLED WITH EITHER BITUMINOUS PLASTIC CEMENT OR PREFORMED PLASTIC GASKET (SEC. 848).

WALL THICKNESS (T) IS SHOWN AS NOMINAL AND MAY BE INCREASED AT PRODUCER'S OPTION FOR DESIRED JOINT DESIGN OR TO ALLOW A FLAT OUTSIDE BOTTOM ON THE FLARE, WITH INSIDE DIMENSIONS OF FLARE RETAINED AS SHOWN.

T = PIPE WALL THICKNESS (0.0833D + 1"+- TYPICAL)

DIMENSIONS AND REINFORCING FOR CONCRETE FLARED END SECTIONS (+- 1" TOLERANCE)

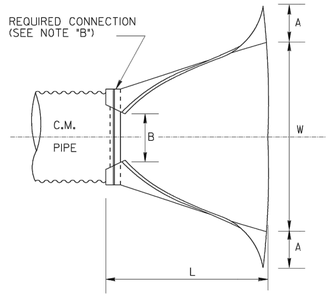
PIPE DIA	FRONT BAR	BACK RODS	SLOPE +-	A	B	C *	L *	E	P	RI	R2	OUTLET TOEWALL (IF REQ'D) K= E + 2'	OUTLET TOEWALL (IF REQ'D) CU.YDS. CONC.
12"	1-#3 x 5' 4"	NOT REQ'D.	2.2:1	4"	2'0"	4' 1"	6'1"	2'0"	1'8"	10"	9"	4'-0"	.148
15"	1-#3 x 6' 0"	NOT REQ'D.	2.2:1	6"	2'3"	3'10"	6'1"	2'6"	2'0"	1'0"	11"	4'-6"	.167
18"	1-#3 x 7' 2"	NOT REQ'D.	2.2:1	9"	2'3"	3'10"	6'1"	3'0"	2'5"	1'4"	1'0"	5'-0"	.185
24"	1-#3 x 9' 10"	NOT REQ'D.	2.4:1	10"	3'8"	2' 6"	6'2"	4'0"	2'9"	1'5"	1'2"	6'-0"	.222
30"	1-#4 x 11' 8"	NOT REQ'D.	2.4:1	12"	4'6"	1' 8"	6'2"	5'0"	3'1"	1'6"	1'3"	7'-0"	.259
36"	1-#4 x 13' 10"	2-#4 x 6'3"	2.4:1	15"	5'3"	2'11"	8'2"	6'0"	4'0"	2'0"	1'8"	8'-0"	.296
42"	1-#4 x 13' 10"	2-#4 x 7'4"	2.4:1	21"	5'3"	2'11"	8'2"	6'6"	4'6"	2'4"	1'10"	8'-6"	.315

NOTE: SPECIFIED REINFORCING IS MINIMAL AND MAY BE INCREASED AT PRODUCERS OPTION TO AID CASTING & HANDLING. ALTERNATE REINFORCEMENT PERMITTED IF APPROVED.

* NOTE: "C" AND "L" DIMENSION MAY BE MEASURED TO EITHER END OF JOINT CONNECTION AT PIPE.

METAL FLARED END SECTION

(USE ONLY WITH COR. METAL PIPE)



PLAN

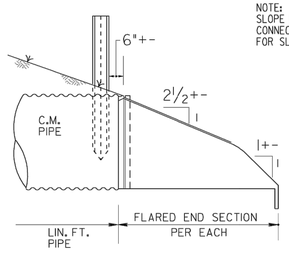
NOTE: GALVANIZED STEEL FLARED END SECTIONS ARE TO BE USED ONLY WITH CORRUGATED STEEL PIPE AND ALUMINUM FLARED END SECTIONS ARE TO BE USED ONLY WITH CORRUGATED ALUMINUM PIPE UNLESS OTHERWISE APPROVED BY D.O.T. OFFICE OF MATERIALS AND TESTS.

FLARED END SECTION DIMENSIONS

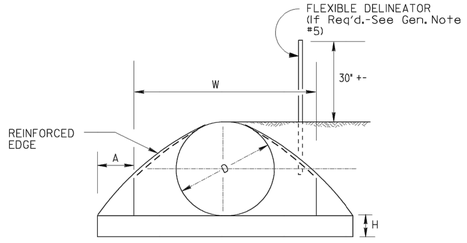
PIPE SIZE "D"	THICKNESS GALV. STEEL	THICKNESS ALUM.	A A= 0.4D +- 1"	B B=0.5 D +- 1"	H H=0.25D +- 1" (MIN.6")	L L=1.67D +- 1 1/2"	W W=2.0D +- 2"
12"	.064"	.060"	5"	6"	6"	1'8"	2'0"
15"	.064"	.060"	6"	7"	6"	2'3"	2'6"
18"	.064"	.060"	7"	9"	6"	2'6"	3'0"
24"	.064"	.060"	9"	1'0"	6"	3'4"	4'0"
30"	.079"	.105"	1'0"	1'3"	7"	4'2"	5'0"
36"	.079"	.105"	1'2"	1'6"	9"	5'0"	6'0"
42"	.109"	.164"	1'5"	1'9"	10"	5'10"	7'0"

NOTE: WHERE METAL FLARED END SECTIONS ARE USED WITH MULTIPLE PIPE LINES, THE STANDARD SPACING BETWEEN PIPES (S=D OR 3 FT.) MAY HAVE TO BE INCREASED (S=1.75 D TYPICAL). TO PREVENT OVER-LAP OF END SECTION WINGTIPS. SEE ALSO STD. 1030D.

NOTE:
SLOPE DRAIN PIPES WILL REQUIRE AN ELBOW FOR CONNECTION TO THE FLARED END SECTION. PAYMENT FOR SLOPE DRAIN PIPE WILL INCLUDE THIS ELBOW.



SIDE



FRONT

NOTE "B":

THE CONNECTION BETWEEN METAL FLARED END SECTION AND C.M. PIPE WILL BE ONE OF THE FOLLOWING:

(a) A STRAP BAND OR THREADED ROD PROVIDED BY THE MANUFACTURER WILL LOCK END SECTION ONTO PIPE. A CORRUGATION AT THE PIPE AND WILL BE NON-SPIRALED (PERPENDICULAR TO CL OF PIPE).

(b) A DIMPLE BAND COLLAR WILL BE SHOP BOLTED TO END SECTION. PIPE WILL BE INSERTED INTO BAND COLLAR TO MEET THE END SECTION.

(c) A STUB PIPE WILL BE RIVITED TO THE END SECTION AND THE MAIN PIPE CONNECTED TO THE STUB WITH A NORMAL CONNECTING BAND.

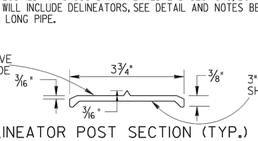
(d) OTHER TYPE CONNECTION IF RECOMMENDED BY MANUFACTURER AND APPROVED BY THE D.O.T.

SPECIAL NOTE:
FLARED END SECTIONS ARE NORMALLY LIMITED TO USE OUTSIDE THE CLEAR ZONE OR BEHIND BARRIER AND WHERE HYDRAULICS PERMIT. SEE OTHER STANDARDS OR DETAILS FOR TAPERED HEADWALLS, SAFETY SLOPE END SECTIONS OR OTHER PIPE END STRUCTURES.

GENERAL NOTES :

1. TOEWALLS ARE REQ'D. FOR OUTLETS OF CONC. STORM DRAINS, EXCEPT WHERE DITCH PAVING OR OTHER EROSION PROTECTION IS PROVIDED OR WHERE THE OUTLET VELOCITY IS LESS THAN 8 FT/SEC. TOEWALLS ARE NOT REQUIRED FOR SIDE DRAINS, SLOPE DRAINS OR INLETS OF STORM DRAINS THIS CRITERIA MAY BE VARIED WHERE SPECIFIED BY THE DESIGNER OR THE ENGINEER.
2. TOEWALLS WILL BE PAID FOR AS CU. YDS. OF CLASS "A" OR "B" CONCRETE. CONTRACTOR MAY ELECT TO CONSTRUCT TOE WALL WITH SAND CEMENT BAG RIPRAP OR STONE RIPRAP TO SAME MINIMUM DIMENSIONS WITH NO ADDITIONAL PAYMENT.
3. PRECAST TOEWALLS SHALL BE CL. "A" CONCRETE; CAST-IN-PLACE TOEWALLS MAY BE CL "A" OR "B" CONCRETE AND MAY BE TRENCH FORMED. WHERE PLANS ITEMIZE ONE CLASS OF CONCRETE AND CONTRACTOR ELECTS TO USE OTHER CLASS, NO ADDITIONAL PAYMENT IS MADE. NO PAYMENT IS MADE FOR STEEL IN TOEWALL.
4. CENTERLINE OF FLARED END SECTION WILL ALIGN WITH CENTERLINE OF PIPE. IF PIPE IS SKEWED, THE EMBANKMENT SLOPE WILL BE WARPED TO CONFORM WITH END SECTION.
5. FLEXIBLE DELINEATORS SHALL BE REQUIRED AT CROSS DRAIN FLARED END SECTIONS, BOTH INLET AND OUTLET. PAYMENT FOR FLARED END SECTION WILL INCLUDE DELINEATORS, SEE DETAIL AND NOTES BELOW. DELINEATORS NOT REQ'D. FOR SIDE DRAIN, SLOPE DRAIN, OR LONG PIPE.

1" X 12" LONG YELLOW REFLECTIVE SHEETING TYPE IX, ON EACH SIDE OF RIDGE.



3" X 12" LONG YELLOW REFLECTIVE SHEETING TYPE IX.

DELINEATOR POST SECTION (TYP.)

NOTE:
DELINEATOR POST SHALL CONFORM TO SEC. 911 FOR FLEXIBLE DELINEATOR POST EXCEPT REFLECTIVE SHEETING IS NOT REQUIRED AND LENGTH IS 4'-6" FROM TOP TO BOTTOM POINT. ALTERNATES PERMITTED IF APPROVED BY D.O.T. LABORATORY.

SPECIAL NOTE :
PIPE SIZES (D) ARE "NOMINAL-MINIMUM" INSIDE DIAMETERS IN ACCORDANCE WITH GEORGIA STANDARD FOR PIPE CULVERTS. "D" DIMENSION FOR FLARED END SECTION SHALL EQUAL THE "D" DIMENSION FOR CONNECTING PIPE CULVERT.

6-9-06	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REV. REFLECTIVE SHEETING	REVISION	STANDARD FLARED END SECTIONS FOR PIPES	
		NO SCALE	REV. & REDR. SEPT., 1999
GLO	BY	DES. ___ REV. ___ RETR. ___ CHK. ___ (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER (APPROVED) CHIEF ENGINEER	NUMBER 1120

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MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

McNUTT ROAD ROAD CONSTRUCTION PLANS

REVISION DATES

CONSTRUCTION DETAILS

McNUTT ROAD AND McNUTT WAY

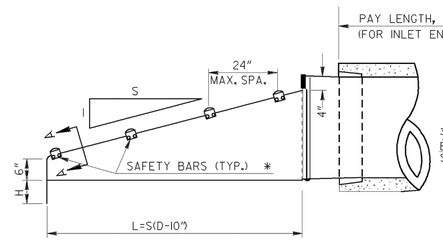
DRAWING NUMBER **41-0004**

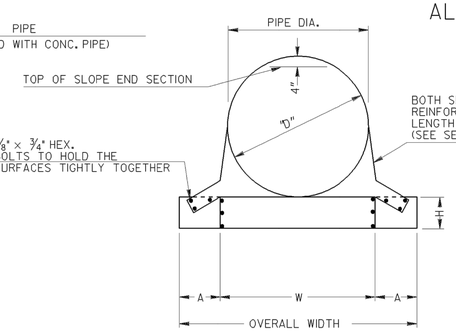
PROJECT: ___

7/24/2009 12:09:34 PM \\GDOT-DSN1\GOPLOT\OCF\go_tiff_output.ocf gowens Y:\Standards\English Standards (.PRF)\1122-1.prf GO-RD6

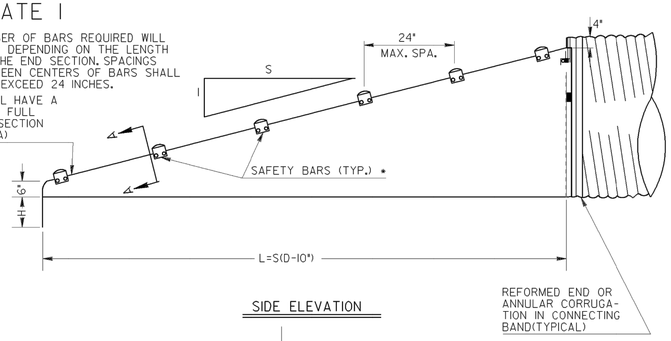
ALTERNATE I

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			





* NUMBER OF BARS REQUIRED WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION. SPACINGS BETWEEN CENTERS OF BARS SHALL NOT EXCEED 24 INCHES.



GENERAL NOTES
ALTERNATE I

GALVANIZED STEEL SHEET

USE GALVANIZED STEEL SHEET CONFORMING TO AASHTO M 218.

CONNECTORS

PAYMENT FOR END SECTION SHALL INCLUDE CONNECTION OF THE TYPE REQUIRED FOR THE SIDE DRAIN USED.

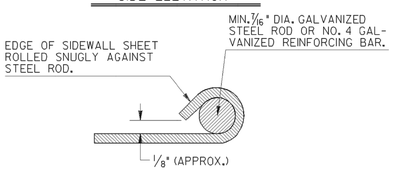
SAFETY BARS

SHALL BE 3" SCHEDULE 40 GALVANIZED STEEL PIPE. PIPE TO BE GALVANIZED AFTER FORMING. SAFETY BAR(S) SHALL BE REQUIRED FOR ALL SAFETY END SECTIONS.

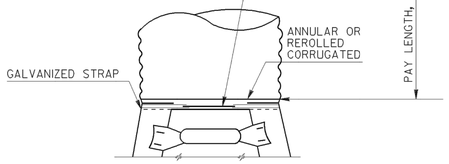
MISCELLANEOUS DETAILS

DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE MANUFACTURER'S REQUIREMENTS, SUBJECT TO APPROVAL BY THE D.O.T.'S LABORATORY. A SAMPLE MUST BE SUBMITTED TO PRE-QUALIFY THE PRODUCT.

SIDE ELEVATION

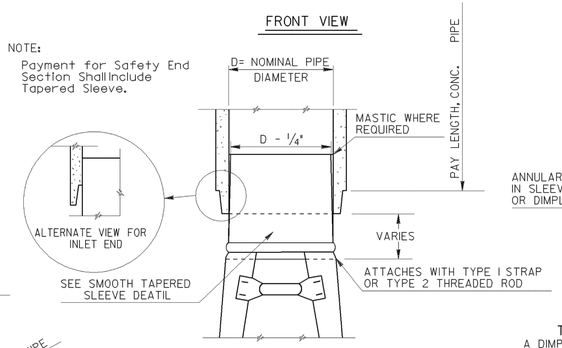


SECTION A-A

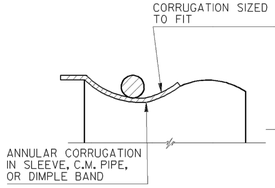


FRONT VIEW

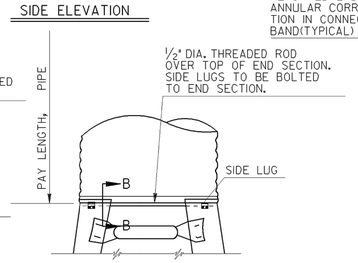
NOTE:
Payment for Safety End Section Shall Include Tapered Sleeve.



SECTION B-B



SIDE ELEVATION



TYPE #2 CONNECTOR DETAILS

FOR 30" AND LARGER

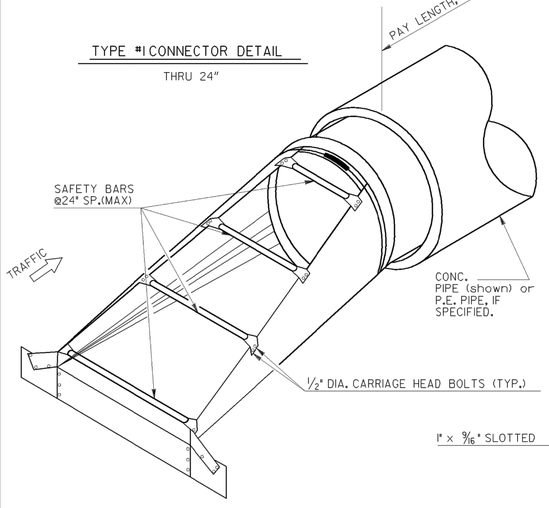
TYPE 3 ALTERNATE CONNECTOR (NOT SHOWN)
A DIMPLE BAND COLLAR MAY BE SHOP BOLTED TO THE END SECTION

SIZES, DIMENSIONS, AND THICKNESSES										
PIPE DIA. (IN.)	MIN. THICK.		DIMENSIONS (INCHES)				* L DIMENSION			
	IN.	GAGE	A	H	W (D+6")	OVERALL WIDTH	SLOPE (S:1)	LENGTH (IN.)	SLOPE (S:1)	LENGTH (IN.)
15	.064	16	8	6	21	37	4:1	20	6:1	30
18	.064	16	8	6	24	40	4:1	32	6:1	48
24	.064	16	8	6	30	43	4:1	56	6:1	84
30	.109	12	12	9	36	60	4:1	80	6:1	120
36	.109	12	12	9	42	66	4:1	104	6:1	156
42	.109	12	16	12	48	80	4:1	128	6:1	192
48	.109	12	16	12	54	86	4:1	152	6:1	228

*SEE STD. NO. 9031T FOR SLOPES AT SIDE ROAD OR AT DRIVES.

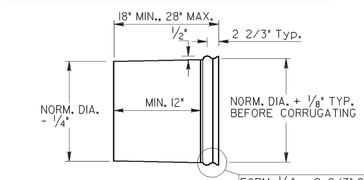
TYPE #1 CONNECTOR DETAIL

THRU 24"



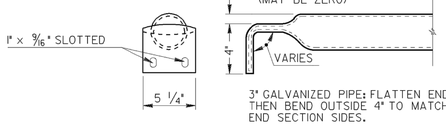
TYPICAL PICTORAL VIEW
(WITH CONCRETE PIPE)

TAPERED SLEEVE FOR ATTACHING STEEL END SECTIONS TO SMOOTH PIPE



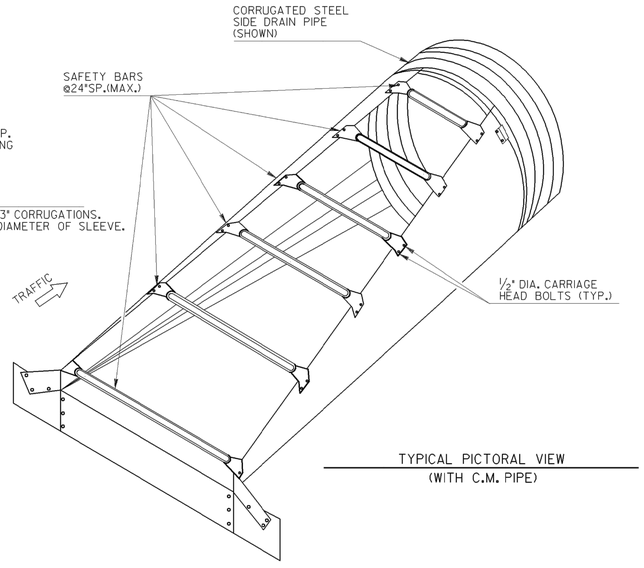
NOTE: METAL TO BE 12 GAGE, SMOOTH GALVANIZED IN ACCORDANCE WITH AASHTO M218-AND COATED AS REQUIRED FOR END SECTION.

TYPE 4 CONNECTOR
SMOOTH TAPERED SLEEVE DETAIL



3" GALVANIZED PIPE: FLATTEN END, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

TYPICAL DETAIL OF SAFETY BARS



TYPICAL PICTORAL VIEW
(WITH C.M. PIPE)

SPECIAL NOTE:

WHERE THE LENGTH OF DITCH OR THE DISTANCE BETWEEN TOE POINTS OF END SECTIONS ON SEPARATE INSTALLATIONS WOULD BE LESS THAN 30 FT., CONTINUED S.D. PIPE WITH AN INTERMEDIATE INLET OR OTHER ALTERNATE MAY BE SPECIFIED INSTEAD.

DATE	REVISION	BY
1-28-05	REVISED GENERAL NOTES	G.L.O.
12-14-94	CONVERTED TO STANDARD PAY ITEMREVISION	R.M.J.
11-18-94	GEN. REVISION	R.M.J.
12-20-93	REFER TO STD. 9031-T	R.M.J.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD SAFETY END SECTION (METAL)

(FOR SIDE DRAIN PIPE-OR FOR STORM DRAIN PIPE PARALLEL TO MAINLINE)

ALTERNATE I

NO SCALE — SEPT., 1993

DESIGNED ____
DRAWN ____
TRACED ____
CHECKED ____

(SUBMITTED) _____ STATE ROAD & AIRPORT DESIGN ENGINEER
(APPROVED) _____ CHIEF ENGINEER

NUMBER 1122
SHEET 1 OF 3

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MORELAND ALTOBELLI — AN ATLAS COMPANY —
Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CONSTRUCTION DETAILS

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER **41-0005**

PROJECT: ___

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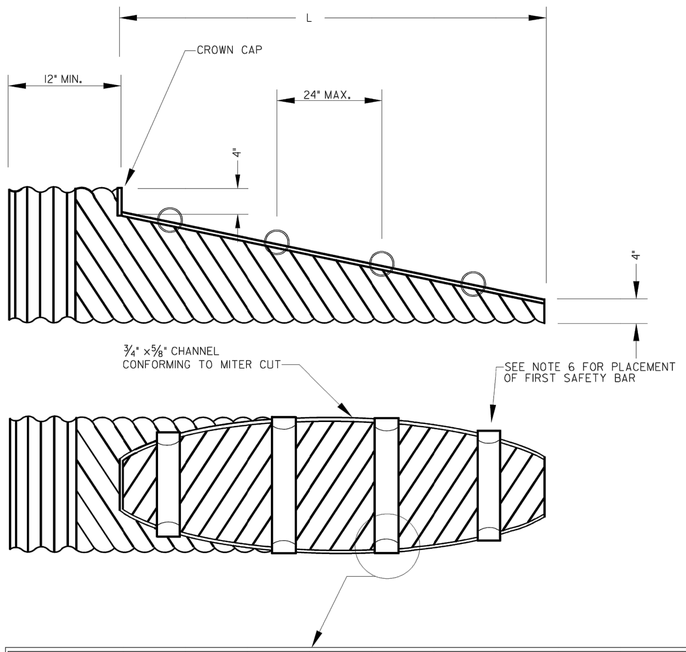
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS

ALTERNATE 2



END TREATMENT DIMENSIONS FOR ARCHED METAL PIPE				
PIPE DIA. (INCHES)	GAGE	SHEET THICKNESS (INCHES)	*4:1 SLOPE L DIMENSION	*6:1 SLOPE L DIMENSION
17"x13"	16	.064"	1'-8"	2'-6"
21"x15"	16	.064"	2'-4"	3'-6"
24"x18"	16	.064"	3'-4"	5'-0"
28"x20"	16	.064"	4'-0"	6'-0"
35"x24"	14	.079"	5'-4"	8'-0"
42"x29"	14	.079"	7'-0"	10'-6"
49"x33"	14	.079"	8'-4"	12'-6"
57"x38"	12	.109"	10'-0"	15'-0"
64"x43"	12	.109"	11'-8"	17'-6"
71"x47"	10	.138"	13'-0"	19'-6"

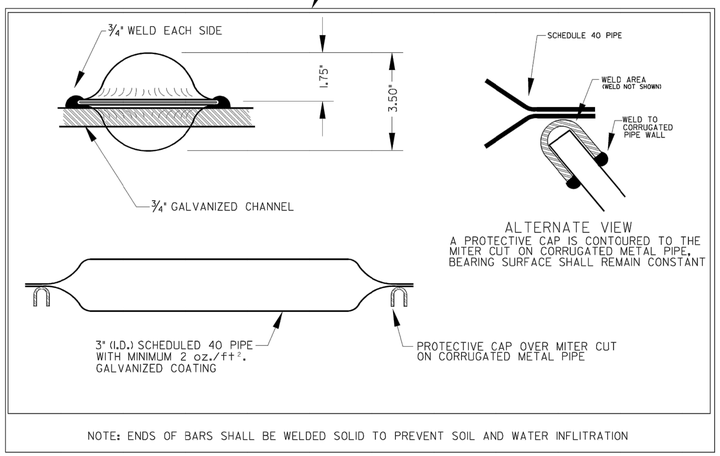
* SEE STD. NO. 903IT FOR SLOPES AT SIDE ROAD OR AT DRIVES.

END TREATMENT DIMENSIONS FOR CIRCULAR METAL AND CIRCULAR CONCRETE PIPES				
PIPE DIA. (INCHES)	GAGE	SHEET THICKNESS (INCHES)	*4:1 SLOPE L DIMENSION	*6:1 SLOPE L DIMENSION
15"	16	.064"	2'-4"	3'-6"
18"	16	.064"	3'-4"	5'-0"
21"	16	.064"	4'-4"	6'-6"
24"	16	.064"	5'-4"	8'-0"
30"	16	.064"	7'-4"	11-0"
36"	16	.064"	9'-4"	14'-0"
42"	14	.079"	11'-4"	17'-0"
48"	14	.079"	13'-4"	20'-0"
54"	14	.079"	15'-4"	23'-0"
60"	12	.109"	17'-4"	26'-0"

* SEE STD. NO. 903IT FOR SLOPES AT SIDE ROAD OR AT DRIVES.

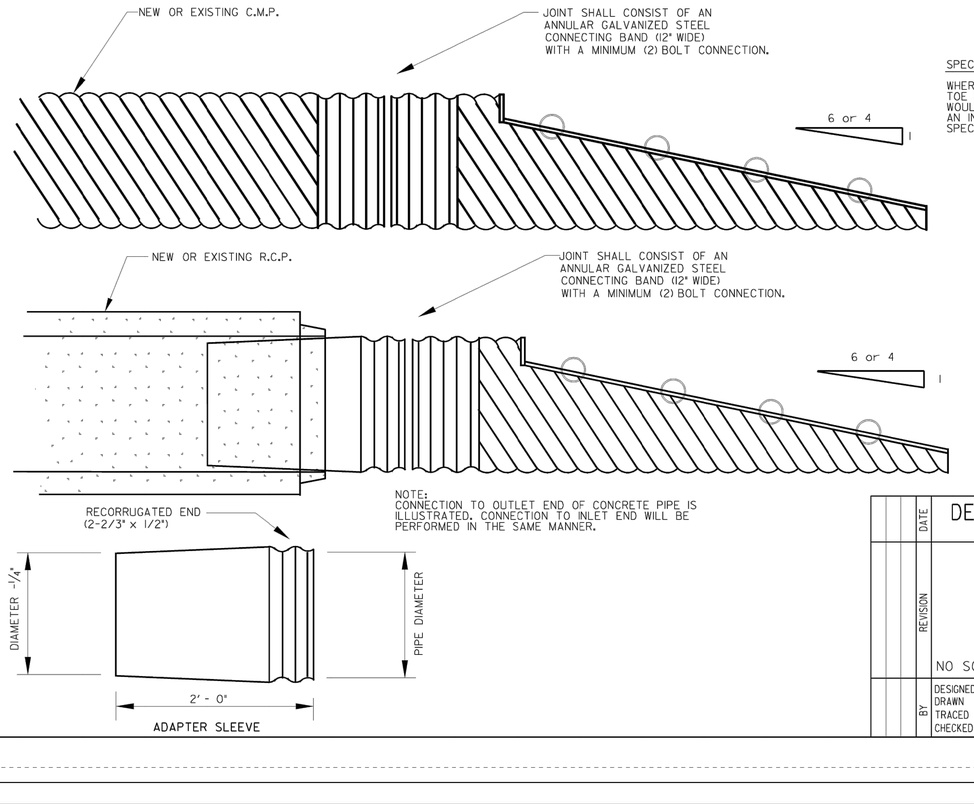
GENERAL NOTE ALTERNATE 2:

1. THE MATERIAL USED IN FABRICATION OF SLOPED END SECTION SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M 218 (GALVANIZED STEEL)
2. SLOPED END SECTIONS SHALL BE FORMED FROM FULL CIRCLE PIPE, MAY BE FORMED INTO PIPE ARCHES, WHERE SPECIFIED, AND SHALL MEET ALL REQUIREMENTS FOR CORRUGATION, GAGE, AND OTHER FABRICATION REQUIREMENTS.
3. THE EXPOSED EDGE CUT ON THE TOP SHALL BE COVERED WITH A PROTECTIVE CAP OVERLAPPING THE TOP OF THE ARCH BY NOT LESS THAN ⅜INCH. THE 4 TO 1OR 6 TO 1 BEVEL SHALL BE ENCASED WITH A PROTECTIVE CAP OVERLAPPING EACH SIDE OF THE CUT BY NOT LESS THAN ⅜INCH. THE PROTECTIVE CAP IS TO BE THE SAME MATERIAL AS THE PIPE AND MINIMUM 14 GAGE (.079"). PROTECTIVE CAPS SHALL BE WELDED WITH ½INCH WELDS ALTERNATING FROM SIDE TO SIDE OFTHE CAP AT 12 INCH INTERVALS. WELDS SHALL BE AT THE ENDS OF ALL CAPS, REGARDLESS OF SPACING. REPAIR DAMAGED GALVANIZED COATINGS IN ACCORDANCE WITH GDOT STANDARD SPECIFICATIONS SECTION 645.
4. CONNECTIONS OF GALVANIZED STEEL END TREATMENTS TO CORRUGATED ALUMINUM OR ALUMINIZED STEEL PIPE MUST UTILIZED A POLYMER COATED GALVANIZED STEEL BAND MEETING THE REQUIREMENTS OF AASHTO M 256 84.
5. ADAPTER SLEEVE IS TO BE CONSTRUCTED OF GALVANIZED STEEL CONFORMING TO THE REQUIREMENTS OF AASHTO M 218, MINIMUM 12 GAGE (.109") MATERIAL.
6. BOTTOM SAFETY BAR SHALL HAVE A MAXIMUM CLEARANCE OF 5" WHEN MEASURED FROM THE BOTTOM OF THE INSTALLED BAR TO INSIDE CREST OF PIPE CORRUGATION.



ALTERNATE VIEW
A PROTECTIVE CAP IS CONTOURED TO THE MITER CUT ON CORRUGATED METAL PIPE. BEARING SURFACE SHALL REMAIN CONSTANT

NOTE: ENDS OF BARS SHALL BE WELDED SOLID TO PREVENT SOIL AND WATER INFLITRATION



NOTE:
CONNECTION TO OUTLET END OF CONCRETE PIPE IS ILLUSTRATED. CONNECTION TO INLET END WILL BE PERFORMED IN THE SAME MANNER.

SPECIAL NOTE:

WHERE THE LENGTH OF DITCH OR THE DISTANCE BETWEEN TOE POINTS OF THE END SECTION ON SEPARATE INSTALLATIONS WOULD BE LESS THAN 30 FT., CONTINUED S.D. PIPE WITH AN INTERMEDIATE INLET OR OTHER ALTERANTE MAY BE SPECIFIED INSTEAD.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
SAFETY END SECTION
(METAL)
(FOR SIDE DRAIN PIPE-OR FOR STORM DRAIN PIPE PARALLEL TO MAINLINE)
ALTERNATE 2

NO SCALE — JAN. 2005

DATE / REVISION / BY

DESIGNED ___ DRAWN ___ TRACED ___ CHECKED ___

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 1122
SHEET 2 OF 3

3/23/2005 9:59:37 AM \\GDOT-DSN1\GOPLOT\QCF\GO_TIFF_OUTPUT.QCF GOWENS M:\GARY\REVISED 1122 AND 1122P\11222.PRF

D:\Data\Projects\McNutt Road\Design\McNutt Road Construction Details.dwg, 5/27/2021 3:39:26 PM

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MORELAND ALTOBELLI — AN ATLAS COMPANY

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

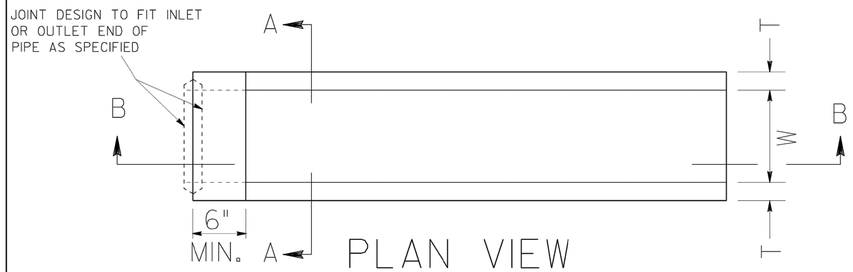
McNUTT ROAD
ROAD CONSTRUCTION PLANS

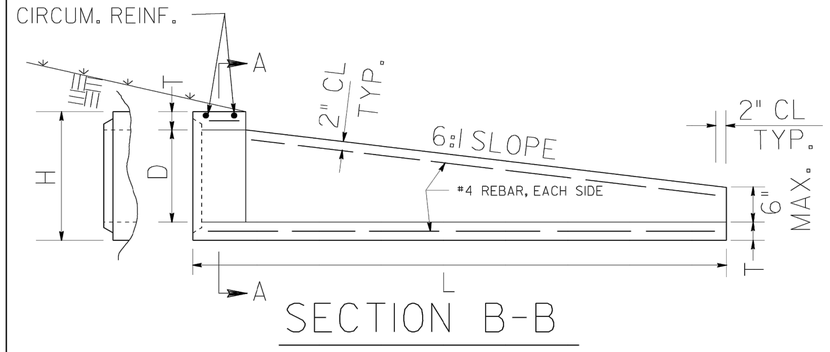
REVISION DATES

CONSTRUCTION DETAILS

McNUTT ROAD AND McNUTT WAY

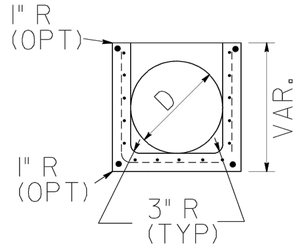
DRAWING NUMBER
41-0006





ALTERNATE 3

PIPE DIA	T (MIN)	D	H	L
15"	3"	15"	21"	4'-6"
18"	3"	18"	24"	6'-0"
24"	3"	24"	30"	9'-0"
30"	4"	30"	38"	12'-6"
36"	4"	36"	44"	15'-6"
42"	4"	42"	50"	18'-6"
48"	5"	48"	58"	22'-0"

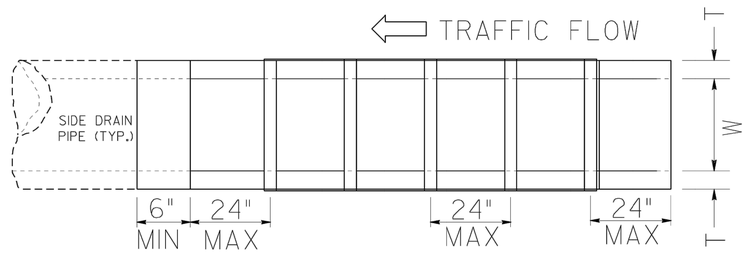


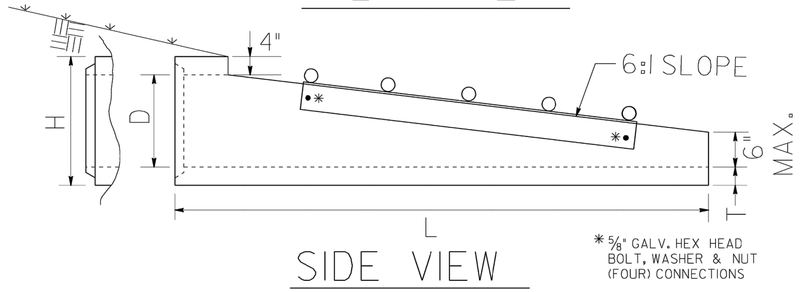
GENERAL NOTES:

1. CONCRETE STRENGTH SHALL BE 4000 PSI MINIMUM
2. REINFORCING SHALL BE PER AASHTO M170, CLASS II REINFORCED CONCRETE PIPE, PLUS ONE #4 BAR TOP AND BOTTOM, EACH SIDE.
3. WALLS MAY HAVE 1/4" TAPER. WALL THICKNESSES SHOWN ARE THE MINIMUM.
4. LIFT HOLES MAY BE PROVIDED IN THE SIDE WALLS FOR HANDLING.
5. END SECTION JOINT WILL BE A MATCHED FIT TO THE ADJOINING PIPE JOINT AT ALL INLET AND OUTLET ENDS. NON-FITTING JOINTS WILL REQUIRE A BUILT-IN-PLACE REINFORCED COLLAR CONNECTION WITH NO ADDITIONAL PAYMENT.
6. ALL END SECTIONS FOR PIPES WITH "D" OVER 24" ON SINGLE LINES WILL HAVE GALV. SAFETY BARS, SPACED NOT MORE THAN 24" ON CENTERS, AND INSTALLED PERPENDICULAR TO THE MAINLINE TRAFFIC FLOW. ALL END SECTIONS FOR MULTIPLE LINE PIPES WILL HAVE GRATES.
7. TYPICAL USE OF SAFETY END SECTIONS IS AT THE ENDS OF PIPES UNDER DRIVEWAYS OR SIDEROADS WHERE THE PIPE CULVERT IS PARALLEL TO THE MAINLINE AND FALLS INSIDE THE MAINLINE CLEAR ZONE WIDTH.

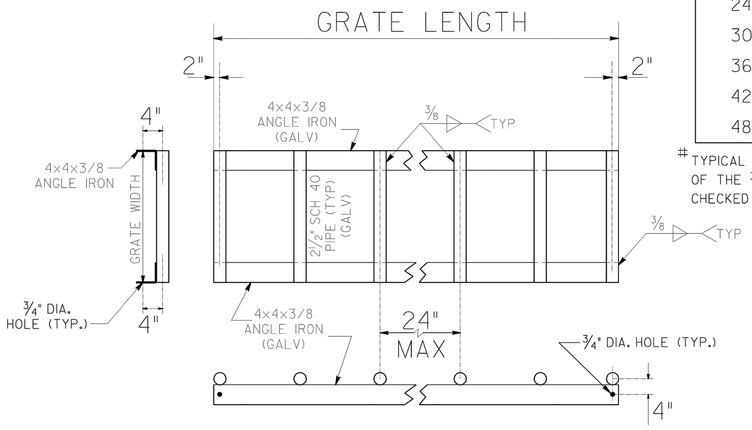
D	(MIN) GRATE LENGTH	GRATE WIDTH (TYP) #
15"	2'-4"	1'-9 5/8"
18"	2'-4"	2'-0 5/8"
24"	6'-4"	2'-6 5/8"
30"	8'-6"	3'-2 5/8"
36"	12'-4"	3'-8 5/8"
42"	14'-6"	4'-2 5/8"
48"	18'-4"	4'-10 5/8"

TYPICAL GRATE WIDTHS SHOWN ARE MEASURED FROM INSIDE TO INSIDE OF THE 3/8" THICK ANGLE IRON. GRATE FIT WITH END SECTION SHALL BE CHECKED BEFORE DELIVERY.





* 5/8" GALV. HEX HEAD BOLT, WASHER & NUT (FOUR) CONNECTIONS



STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

1-28-05	DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
REVISED TO 1122 PAGE 3	REVISION	STANDARD SAFETY END SECTION (CONCRETE) (FOR SIDE DRAIN PIPE-OR FOR STORM DRAIN PIPE PARALLEL TO MAINLINE) ALTERNATE 3
		NO SCALE — OCT., 2000
G.L.O.	BY	DESIGNED ___ DRAWN ___ TRACED ___ CHECKED ___ (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGINEER (APPROVED) CHIEF ENGINEER — NUMBER 1122 — SHEET 3 OF 3

MORELAND ALTOBELLI — AN ATLAS COMPANY
Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CONSTRUCTION DETAILS

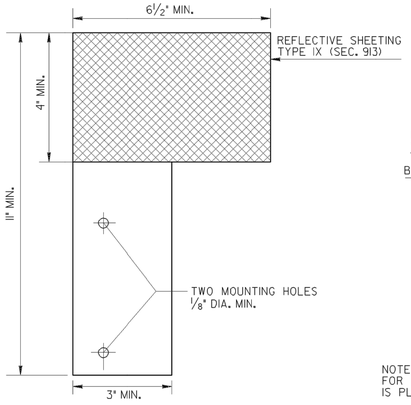
McNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER
41-0007

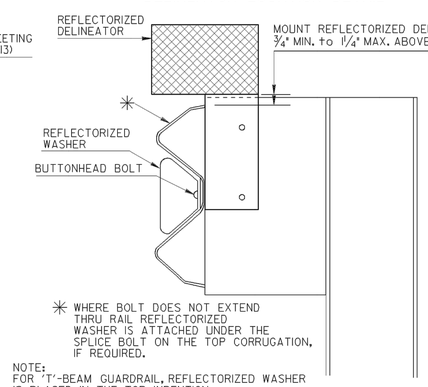
PROJECT: ___

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

REFLECTORIZED DELINEATOR



REFLECTORIZED WASHER AND DELINEATOR LOCATION DETAIL



✳ WHERE BOLT DOES NOT EXTEND THRU RAIL REFLECTORIZED WASHER IS ATTACHED UNDER THE SPLICE BOLT ON THE TOP CORRUGATION, IF REQUIRED.

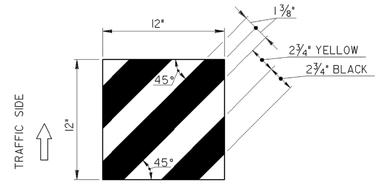
NOTE:
FOR 'T'-BEAM GUARDRAIL, REFLECTORIZED WASHER IS PLACED IN THE TOP INDENTION.

REFLECTIVE GUARDRAIL DELINEATORS:

1. DELINEATOR SHALL HAVE A MINIMUM THICKNESS OF 0.125 INCHES.
2. THE DELINEATOR SHALL BE BLACK, HIGH-DENSITY POLYETHYLENE PANEL THAT IS STABILIZED AGAINST ULTRAVIOLET DEGRADATION.
3. DELINEATOR SHALL HAVE A MINIMUM REFLECTIVE AREA OF 26 SQUARE INCHES FOR RIGHT AND LEFT DELINEATOR AND WILL USE TYPE IX REFLECTIVE SHEETING.
4. DELINEATOR SHALL MEET THE FOLLOWING COLOR REQUIREMENTS: YELLOW IN THE MEDAIN, WHITE OF THE OUTSIDE SHOULDER AND RED ON THE REVERSE SIDE OF THE DELINEATOR AT RAMP LOCATIONS.
5. DELINEATOR SHALL HAVE PREDRILLED HOLES IN THE PANEL TO ALLOW THE DELINEATOR TO BE ATTACHED TO WOOD, PLASTIC OR STEEL GUARDRAIL OFFSET BLOCKS WITH SCREWS, NAILS, EPOXY ADHESIVE OR AS PER MANUFACTURER'S RECOMMENDATIONS.

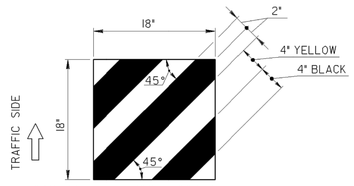
NOSE STRIPING DETAILS

(REQUIRED FOR ANCHORAGE WITH ROUNDED NOSE)



(ROTATE 90° WHERE APPROACH TRAFFIC IS ON RIGHT SIDE)

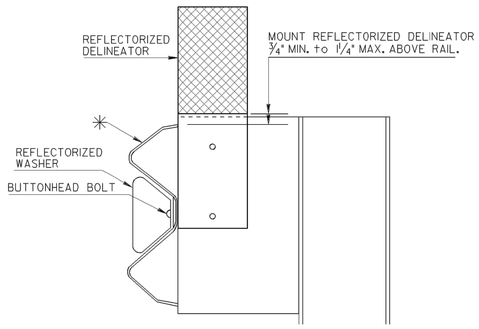
(REQUIRED WITH ANCHORAGE WITH EXTRUDER OR IMPACT HEADS)



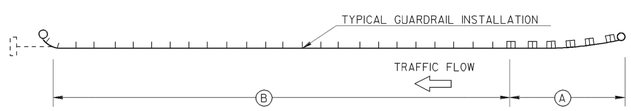
(ROTATE 90° WHERE APPROACH TRAFFIC IS ON RIGHT SIDE)

BLACK GLOSS DURABLE INK PRINTED ON TYPE IX REFLECTIVE SHEETING (SEE CURRENT SEC. 913 AND 917)

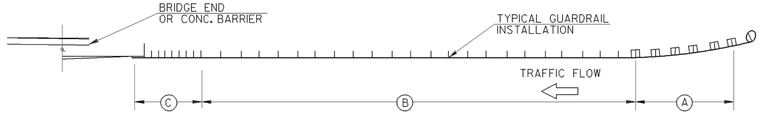
ALTERNATE DELINEATOR LOCATION DETAIL



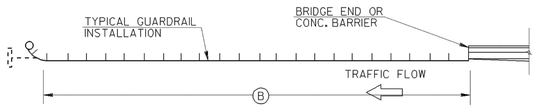
ALONG ROADSIDE



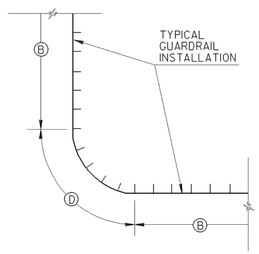
APPROACH END-BRIDGE OR CONCRETE BARRIER



TRAILING END-BRIDGE OR CONCRETE BARRIER



AT TURNOUTS



SPACING OF REFLECTORIZED WASHERS AND DELINEATORS

Ⓐ -AT ANCHORAGES:

-TWO (2) REFLECTORIZES WASHERS ARE REQUIRED ON THE RAIL UNDER SPLICE BOLTS AS DIRECT BY THE ENGINEER FOR ELLIPTICALLY FLARED ANCHORAGES WITH ROUNDED END PIECES.

-NO REFLECTORIZED WASHERS OR DELINEATOR WILL BE USED FOR TANGENTIALLY ALIGNED OR STRAIGHT TAPERED ANCHORAGE WITH EXTRUDER OR IMPACT HEADS;

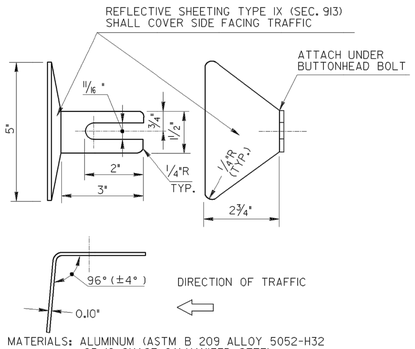
Ⓑ -AT 75 FT. SPACINGS FOR INTERMEDIATE SECTIONS;

Ⓒ -THREE WASHERS AT 6'-3" SPACING AT CONNECTIONS TO CONCRETE FACE ON THE APPROACH END;

Ⓓ -AT 12'-6" SPACINGS AROUND RADII TURNS.

NOTE: THE SPACING WILL BE USED TO INSTALL THE DELINEATOR ON NEW GUARDRAIL, EXISTING GUARDRAIL WITH EXISTING GUARDRAIL WASHERS AND EXISTING GUARDRAIL WITHOUT EXISTING GUARDRAIL WASHERS.

REFLECTORIZED WASHER DETAILS



MATERIALS: ALUMINUM (ASTM B 209 ALLOY 5052-H32 OR 12 GUAGE GALVANIZED STEEL (ASTM A 653/A653M) WITH REFLECTIVE SHEETING, AS APPROVED BY THE OFFICE OF MATERIALS AND RESEARCH.

COLORS: YELLOW IN MEDIANS AND WHITE ON OUTSIDE SHOULDERS

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, & SUPPLEMENTS THERETO.
2. SEE SEPARATE STANDARDS FOR DETAILS OF GUARDRAIL INSTALLATIONS, CONNECTING HARDWARE, AND ANCHORAGES.
3. PAYMENT FOR REFLECTORIZED WASHERS, DELINEATORS AND NOSE STRIPING WILL BE INCLUDED IN THE PAVEMENT FOR GUARDRAIL AND ANCHORS IF INDIVIDUALS PAY ITEMS ARE NOT SHOWN IN THE CONTRACT.
4. ADJUSTMENTS OF SPACINGS AND/OR REQUIREMENTS FOR REFLECTIVE WASHERS AND DELINEATORS MAY BE DIRECTED BY THE ENGINEER TO SUIT INDIVIDUAL LOCATIONS.
5. WHERE DOUBLE FACED GUARDRAIL IS LOCATED ON THE INSIDE SHOULDER OF MEDIANS, REFLECTORIZED WASHERS AND DELINEATORS SHALL BE REQUIRED ONLY ON THE SIDE WHICH IS NEAREST TO TRAFFIC, UNLESS SPECIFIED OTHERWISE.
6. WHEN DOUBLE FACED GUARDRAIL IS LOCATED IN THE CENTER OF THE MEDIAN, REFLECTORIZED WASHER AND DELINEATORS SHALL BE REQUIRED ON BOTH SIDES.

BY	REVISION	DATE
BJO	ADDED G'RAIL DELINEATOR AND REVISED GEN. NOTE.	10-22-14
GLO	REV. REFLECTIVE. SH. TYPE. REFLEC. SH. SPEC.	4-10-06
RMJ	ADD NOSE STRIPING	2-1-01
RMJ		6-1-99

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD

REFLECTORIZED GUARDRAIL WASHERS, DELINEATOR AND ANCHORAGE NOSE STRIPING

NO SCALE — REV. & REDR. APRIL, 1999

DES. ____ DRWN. ____ CHK. ____

(SUBMITTED) STATE DESIGN POLICY ENGINEER

(APPROVED) CHIEF ENGINEER

NUMBER 4360

MORELAND ALTOBELLI — AN ATLAS COMPANY —
Moreland Altobelli Associates, LLC
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Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	4-19-19
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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CONSTRUCTION DETAILS

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER 41-0008

PROJECT: ___

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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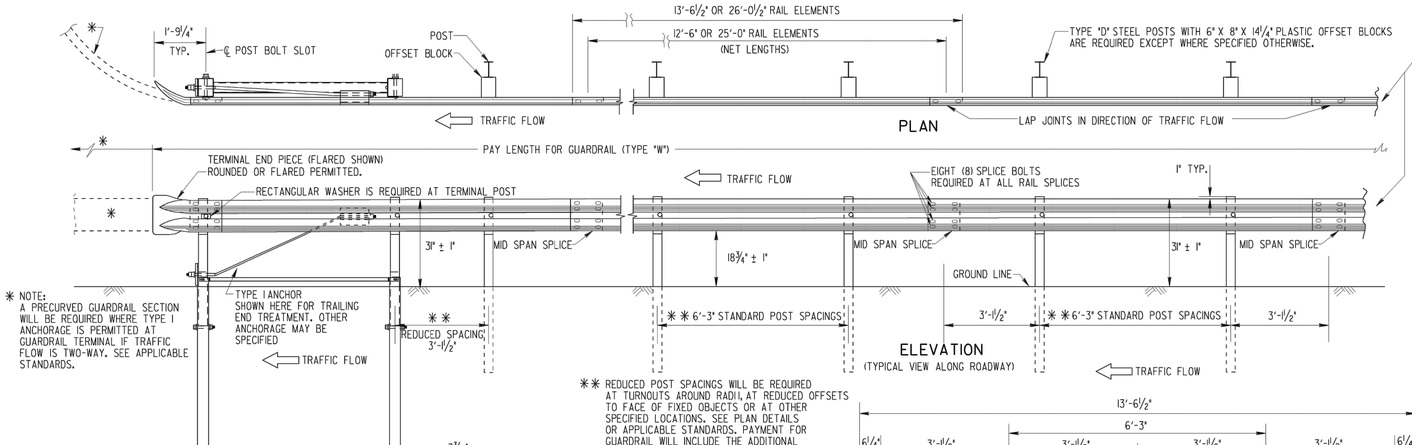
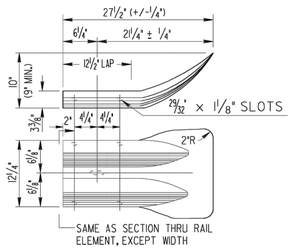
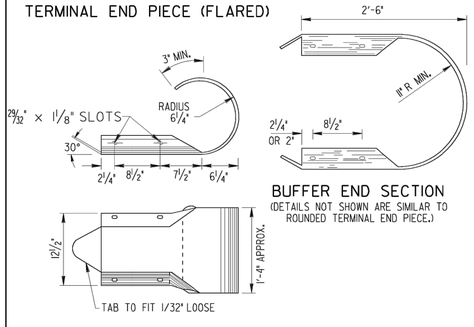
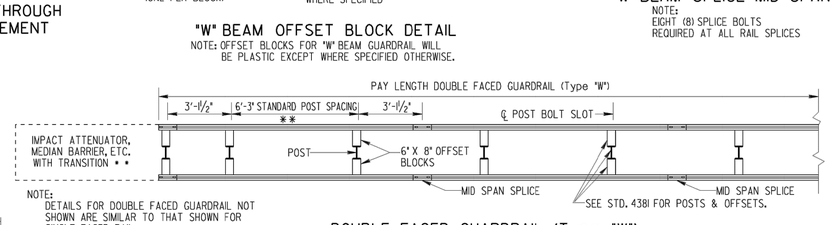
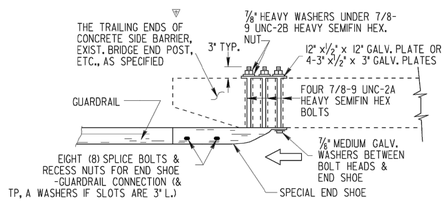
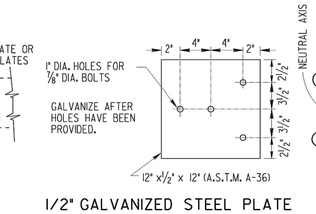


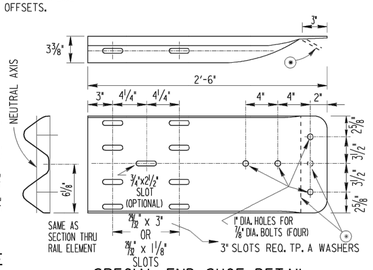




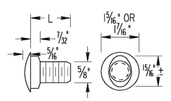


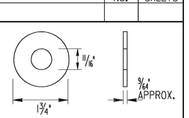






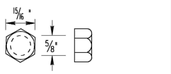
L	THREAD LENGTH
1¼"	FULL LENGTH
2"	1½" MIN.
9½"	1¾" MIN.

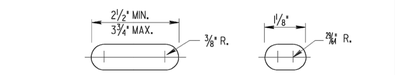


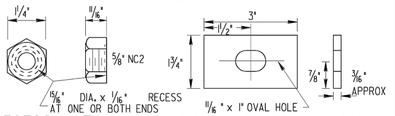


SPECIAL NOTE:
ALL GUARDRAIL SPLICES WILL BE PROPERLY SECURED WITH EIGHT SPLICE BOLT CONNECTIONS. ALL NUTS WILL BE TIGHTENED. LOOSE NUTS, OMITTED BOLTS, OR OMITTED NUTS WILL BE CAUSE FOR REJECTION.

GUARDRAIL NOT ERECTED AT A 31" TOP OF RAIL HEIGHT MAY BE CAUSE FOR REJECTION.







GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. NUTS, BOLTS, WASHERS, RAIL, TERMINAL SECTIONS, END SHOES, BACK-UP PLATES, END SECTIONS AND OTHER GUARDRAIL HARDWARE ARE IN ACCORDANCE WITH THE CURRENT ARTBA TECHNICAL BULLETIN NO. 268 __ UNLESS SPECIFIED OTHERWISE. DIMENSIONS FOR POSTS AND OFFSET BLOCKS WILL BE ACCORDING TO GA. STANDARD 438I.
3. FOR DETAILS OF GUARDRAIL ANCHORAGES, SEE APPLICABLE STANDARDS AND/OR CONSTRUCTION DETAILS.
4. FOR LOCATION OF GUARDRAIL SEE APPLICABLE LOCATION STANDARDS.
5. ALL STEEL HARDWARE COMPONENTS WILL BE GALVANIZED AFTER FABRICATION. GALVANIZING REPAIR COMPOUND (SEC. 645) WILL BE FIELD APPLIED TO ANY COATINGS DAMAGED.
6. WHEN GUARDRAIL IS REQUIRED ON CURVES WITH RADII LESS THAN 150', PRECURVED RAIL WILL BE REQUIRED.
7. PAYMENT FOR GUARDRAIL (Type "W") TO INCLUDE OFFSET BLOCKS, POST, BACK-UP PLATES WHERE REQUIRED, BOLTS, NUTS, WASHERS, TERMINAL SECTIONS, ADDITIONAL POST WHERE REQUIRED, LEAVE-OUTS INCLUDING GROUT WHERE REQUIRED, & REMOVAL AND REPLACEMENT OF PORTIONS OF MEDIAN PAVING, SPILLWAYS, OR CATCH BASINS WHERE NECESSARY.
8. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
9. STANDARD NET LENGTH OF RAIL ELEMENTS MAY BE EITHER 12'-6" OR 25'-0". THESE LENGTHS SHALL BE ARRANGED TO PROVIDE AS NEARLY AS POSSIBLE THE REQUIRED LENGTH FOR EACH INSTALLATION.

NOTE:
UNLESS SPECIFIED OTHERWISE, ALL REFERENCES TO GUARDRAIL ON STANDARDS AND/OR CONSTRUCTION DETAILS WILL MEAN "W" BEAM GUARDRAIL AS SHOWN ON THIS STANDARD.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
"W" BEAM GUARDRAIL
31 INCH GUARDRAIL HEIGHT

NO SCALE — AUGUST 2011

REV. W-BM BLOCK TO 8" DEPTH	DATE	1-29-16
REVISION	BY	FBF

DES. G.L.O. (SUBMITTED)
DRW. G.L.O. STATE DESIGN POLICY ENGINEER
CHK. B.R.E. (APPROVED) Margaret B Purdo
REVIEW B.A.S. CHIEF ENGINEER

NUMBER 4380

3/4/2016 9:28:18 AM \\GDOT-DSNI\GOPLOT\OCE\OGC.qcf bquarles P:\Policy&Lighting\Standards\GA Standards\4380\Revised_2016-1-29\4380_Revised_2016-1-29.prf

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MORELAND ALTOBELLI — AN ATLAS COMPANY —
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327 Dahlonega Street
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Cumming, Georgia 30040
Telephone (770) 781-5507

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

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McNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER
41-0009

PROJECT: ___

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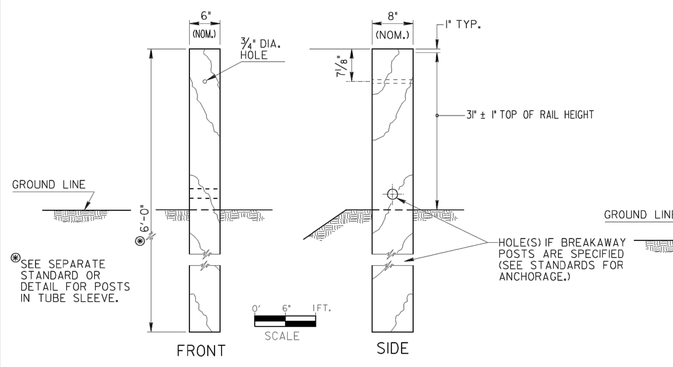
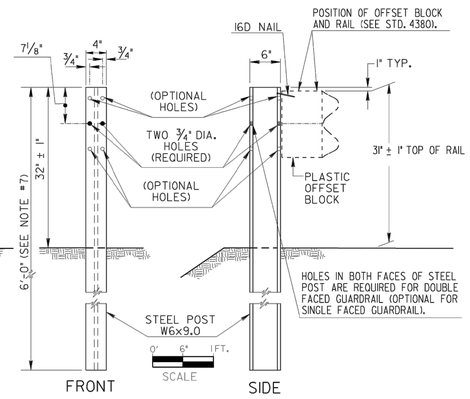
TYPE A WOOD POST (FOR "W" BEAM GUARDRAIL)

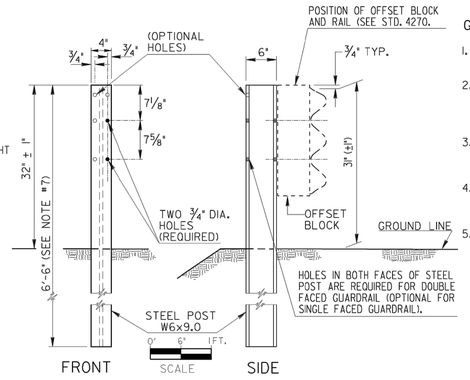
NOTE: WOOD POST ARE ALLOWABLE ONLY WHERE SPECIFIED.



TYPE D STEEL POST (FOR "W" BEAM GUARDRAIL)



TYPE D-T STEEL POST (FOR "T" BEAM GUARDRAIL)



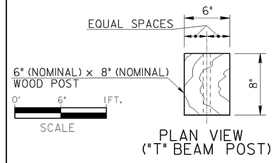
GENERAL NOTES:

1. SPECIFICATIONS GEORGIA STANDARD, CURRENT EDITION AND SUPPLEMENTS THERETO.
2. STEEL POSTS MAY BE EITHER ROLLED OR WELDED STRUCTURAL SHAPES. STEEL OFFSET BLOCKS SHALL BE ROLLED. WELDED POSTS SHALL BE SEAL WELDED BETWEEN WEB AND FLANGE BEFORE GALVANIZING.
3. WHERE WOOD POST OR WOOD OFFSET BLOCKS ARE PERMITTED, THE WOOD SHALL BE TREATED IN ACCORDANCE WITH GEORGIA STANDARD SPECIFICATIONS.
4. ALL BOLTS USED FOR FASTENING THE RAIL AND OFFSET BLOCKS TO WOOD POSTS SHALL HAVE SUFFICIENT LENGTH TO EXTEND AT LEAST 1/4" BEYOND THE FULL NUT, UP TO 3" BEYOND.
5. (a) "W" BEAM GUARDRAIL: ALL OFFSET BLOCKS SHALL BE 8" DEPTH PLASTIC BLOCKS EXCEPT FOR (d) BELOW.

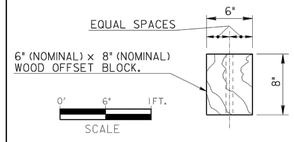
   (b) "T" BEAM GUARDRAIL: STANDARD INSTALLATION WILL USE 8" DEPTH PLASTIC BLOCKS UNLESS OTHERWISE APPROVED.

   (c) 13 3/4" DEPTH MODIFIED STEEL OFFSETS MAY BE SPECIFIED WHERE JUSTIFIED FOR MORE SEVERE CONDITIONS. PAY ITEM IS --GUARDRAIL, TP T, MODIFIED OFFSET BLOCK---PER LIN. FT.

   (d) WOOD OFFSET BLOCKS MAY BE USED ONLY AT AN ISOLATED LOCATION WITHIN A RUN OF GUARDRAIL, WHERE OTHER BLOCK TYPES WOULD NOT PROVIDE PROPER FIT, AS DETERMINED BY THE ENGINEER OR SHOWN IN THE PLANS.
6. POSTS WILL BE SPACED AT 6'-3" C. TO C., UNLESS OTHERWISE NOTED.
7. ADDITIONAL LENGTH POSTS, WHERE SPECIFIED, SHALL BE 7'-0" AND 7'-6" LONG FOR "W" BEAM AND "T" BEAM GUARDRAILS RESPECTIVELY, WITH HOLES DIMENSIONED FROM THE POST-TOP THE SAME AS SHOWN.
8. 9'-0" POST REQUIRED IF GUARDRAIL INSTALLED ON A 2:1 SLOPE.
9. GROUT FILL SHALL BE A CONTROLLED LOW STRENGTH FLOWABLE FILL THAT HAS A MAXIMUM 28-DAY COMPRESSIVE STRENGTH OF 100 P.S.I. ACCORDING TO SPEC. 600.



PLAN VIEW ("T" BEAM POST)



PLAN VIEW (FOR "W" BEAM OFFSET BLOCK)

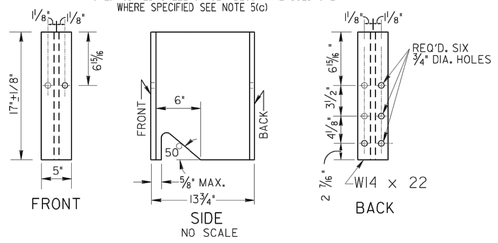
WOOD POSTS AND WOOD OFFSET BLOCKS MAY BE ROUGH OR SURFACED.

DIMENSIONS FOR WOOD POSTS AND WOOD OFFSET BLOCKS ARE NOMINAL IN ACCORDANCE WITH ACCEPTED LUMBER INDUSTRY STANDARDS.

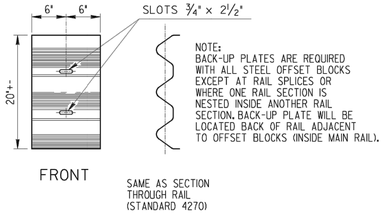
NOTE:
WHERE WOOD OFFSET BLOCK ON STEEL POST IS PERMITTED IN "W" BEAM INSTALLATION, A NAIL OR SCREW FROM POST TO WOOD IS REQUIRED TO PREVENT ROTATION OF THE BLOCK.

MODIFIED STEEL OFFSET BLOCK FOR "T" BEAM GUARDRAIL

NOTE: MODIFIED STEEL OFFSET BLOCK ARE USED ONLY WHERE SPECIFIED SEE NOTE 5(c)

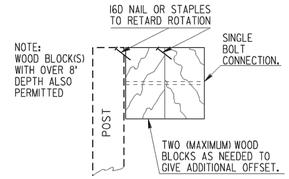


BACK-UP PLATE (FOR "T" BEAM GUARDRAIL)



ADDITIONAL DEPTH OFFSET BLOCKOUTS

(FOR USE WHERE GREATER THAN STANDARD OFFSET IS SPECIFIED)

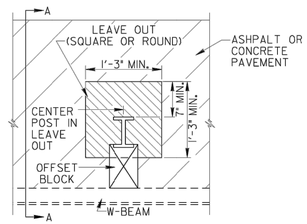


NOTE: ADDITIONAL DEPTH OFFSETS BELOW ARE SHOWN FOR "W" BEAM. SIMILAR OFFSETS MAY BE APPLIED FOR "T" BEAM GUARDRAIL.

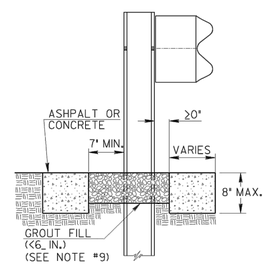
NOTE: ADDITIONAL DEPTH OFFSETS ARE PERMITTED ONLY WHERE AN ISOLATED POST MUST BE PLACED AT A GREATER THAN NORMAL OFFSET.

NOTE: FOR BLOCK CONNECTION TO POST AND TO RAIL SEE STD. 4380 OR 4385.

GUARDRAIL POST DETAILS IN ASPHALT OR CONCRETE PAVEMENT APPLICATIONS



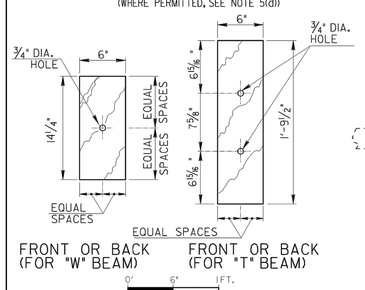
PLAN



SECTION A-A

WOOD OFFSET BLOCKS

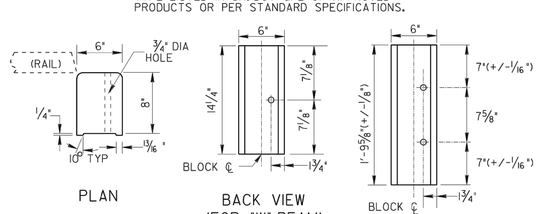
(WHERE PERMITTED, SEE NOTE 5(d))



(PLAN VIEW IS SAME AS SHOWN FOR WOOD POST ABOVE)

STANDARD PLASTIC OFFSET BLOCKS

NOTE: PLASTIC OFFSET BLOCKS SHALL BE OF TYPE LISTED IN GA. DOT QPL OF APPROVED PRODUCTS OR PER STANDARD SPECIFICATIONS.

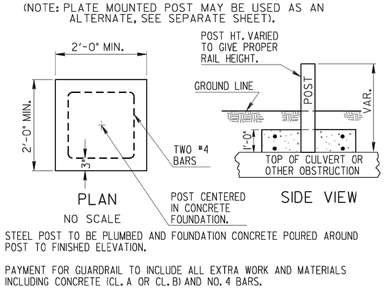


NOTE: DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES.

NO SCALE

CONCRETE FOUNDATION FOR POST IN SHALLOW FILLS OVER CULVERTS OR OTHER OBSTRUCTIONS

(NOTE: PLATE MOUNTED POST MAY BE USED AS AN ALTERNATE, SEE SEPARATE SHEET).

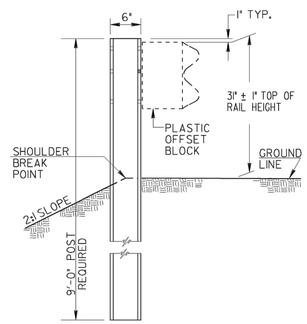


STEEL POST TO BE PLUMBED AND FOUNDATION CONCRETE POURED AROUND POST TO FINISHED ELEVATION.

PAYMENT FOR GUARDRAIL TO INCLUDE ALL EXTRA WORK AND MATERIALS INCLUDING CONCRETE (CL. A OR CL. B) AND NO. 4 BARS.

IF OFFSET FROM RAIL FACE TO HEADWALL IS LESS THAN 4'-3", POST SPACINGS ARE REDUCED TO 3'-1 1/2" C.C. ACROSS THE CULVERT WITH 7 SUCH SPACINGS IN ADVANCE AT NO ADDITIONAL PAYMENT.

2:1 SLOPE DETAIL



STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

REV.	DATE	BY	REVISION
A-BM BLOCK TO 8" DEPTH	1-29-16	FBF	ADDED MOW STRIP/ROAD PAV. INSTALLATION DETAILS

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
POSTS AND OFFSET BLOCKS
FOR "W" & "T" BEAM GUARDRAIL
31 INCH GUARDRAIL HEIGHT

SCALE: AS SHOWN AUGUST 2011

DES.	G.L.O.	(SUBMITTED)
DRW.	G.L.O.	
CHK.	B.R.E.	(APPROVED) STATE DESIGN POLICY ENGINEER
REVIEW	B.A.S.	CHIEF ENGINEER

NUMBER 4381

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Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

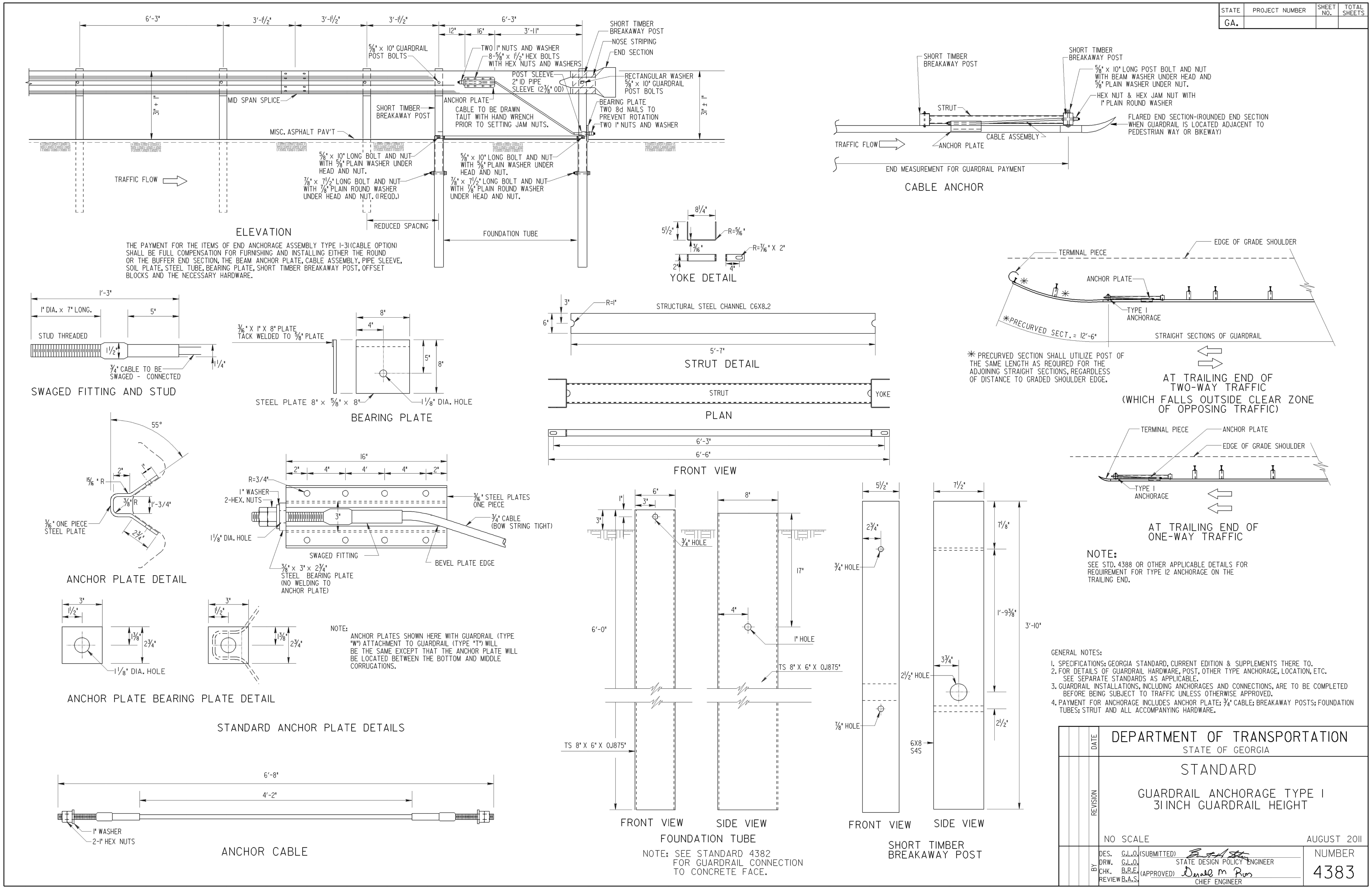
CONSTRUCTION DETAILS

McNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER
41-0010

12/7/2011 8:05:15 AM \\GDOT-DSN1\GDPLOT\GCF\GO_K1p8000.gcf tcox C:\tpc\31inch guardrail\new 31 inch guardrail files\4383.pdf GO-RDG

9/21/2011 8:13:55 AM \\GDOT-DSN1\GDPLOT\GCF\GO_K1p8000.gcf gowens V:\GARY\31 inch guardrail standards\4012D rev 4383.prf



STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS
GA.
ELEVATION
THE PAYMENT FOR THE ITEMS OF END ANCHORAGE ASSEMBLY TYPE 1-31(CABLE OPTION) SHALL BE FULL COMPENSATION FOR FURNISHING AND INSTALLING EITHER THE ROUND OR THE BUFFER END SECTION, THE BEAM ANCHOR PLATE, CABLE ASSEMBLY, PIPE SLEEVE, SOIL PLATE, STEEL TUBE, BEARING PLATE, SHORT TIMBER BREAKAWAY POST, OFFSET BLOCKS AND THE NECESSARY HARDWARE.
TRAFFIC FLOW
MID SPAN SPLICE
MISC. ASPHALT PAV'T
SHORT TIMBER BREAKAWAY POST
NOSE STRIPING
END SECTION
POST SLEEVE 2" ID PIPE SLEEVE (2⅜" OD)
RECTANGULAR WASHER ⅝" x 10" GUARDRAIL POST BOLTS
BEARING PLATE TWO 8d NAILS TO PREVENT ROTATION
TWO 1" NUTS AND WASHER
ANCHOR PLATE
CABLE TO BE DRAWN TAUT WITH HAND WRENCH PRIOR TO SETTING JAM NUTS.
REDUCED SPACING
FOUNDATION TUBE
CABLE ANCHOR
END MEASUREMENT FOR GUARDRAIL PAYMENT
FLARED END SECTION-(ROUNDED END SECTION WHEN GUARDRAIL IS LOCATED ADJACENT TO PEDESTRIAN WAY OR BIKEWAY)
YOKE DETAIL
STRUT DETAIL
STRUCTURAL STEEL CHANNEL C6X8.2
PLAN
FRONT VIEW
SWAGED FITTING AND STUD
BEARING PLATE
STEEL PLATE 8" × ⅝" × 8"
ANCHOR PLATE DETAIL
ANCHOR PLATE BEARING PLATE DETAIL
STANDARD ANCHOR PLATE DETAILS
NOTE: ANCHOR PLATES SHOWN HERE WITH GUARDRAIL (TYPE "W") ATTACHMENT TO GUARDRAIL (TYPE "T") WILL BE THE SAME EXCEPT THAT THE ANCHOR PLATE WILL BE LOCATED BETWEEN THE BOTTOM AND MIDDLE CORRUGATIONS.
ANCHOR CABLE
FRONT VIEW
SIDE VIEW
FOUNDATION TUBE
NOTE: SEE STANDARD 4382 FOR GUARDRAIL CONNECTION TO CONCRETE FACE.
SHORT TIMBER BREAKAWAY POST
TERMINAL PIECE
EDGE OF GRADE SHOULDER
TYPE I ANCHORAGE
STRAIGHT SECTIONS OF GUARDRAIL
✳ PRECURVED SECTION SHALL UTILIZE POST OF THE SAME LENGTH AS REQUIRED FOR THE ADJOINING STRAIGHT SECTIONS, REGARDLESS OF DISTANCE TO GRADED SHOULDER EDGE.
AT TRAILING END OF TWO-WAY TRAFFIC (WHICH FALLS OUTSIDE CLEAR ZONE OF OPPOSING TRAFFIC)
AT TRAILING END OF ONE-WAY TRAFFIC
NOTE: SEE STD. 4388 OR OTHER APPLICABLE DETAILS FOR REQUIREMENT FOR TYPE 12 ANCHORAGE ON THE TRAILING END.
GENERAL NOTES:
1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERE TO.
2. FOR DETAILS OF GUARDRAIL HARDWARE, POST, OTHER TYPE ANCHORAGE, LOCATION, ETC. SEE SEPARATE STANDARDS AS APPLICABLE.
3. GUARDRAIL INSTALLATIONS, INCLUDING ANCHORAGES AND CONNECTIONS, ARE TO BE COMPLETED BEFORE BEING SUBJECT TO TRAFFIC UNLESS OTHERWISE APPROVED.
4. PAYMENT FOR ANCHORAGE INCLUDES ANCHOR PLATE; ¾" CABLE; BREAKAWAY POSTS; FOUNDATION TUBES; STRUT AND ALL ACCOMPANYING HARDWARE.
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
STANDARD
GUARDRAIL ANCHORAGE TYPE I
31 INCH GUARDRAIL HEIGHT
NO SCALE
AUGUST 2011
DES. G.L.O. (SUBMITTED) STATE DESIGN POLICY ENGINEER
DRW. G.L.O.
CHK. B.R.F. (APPROVED) CHIEF ENGINEER
REVIEW B.A.S.
NUMBER
4383

12/7/2011 8:05:15 AM \\GDOT-DSN1\GDPLOT\GCF\GO_K1p8000.gcf tcox C:\tpc\31inch guardrail\new 31 inch guardrail files\4383.pdf

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327 Dahlonega Street
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Cumming, Georgia 30040
Telephone (770) 781-5507
MORELAND ALTOBELLI — AN ATLAS COMPANY —

	NAME	DATE
DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CONSTRUCTION DETAILS

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER **41-0011**

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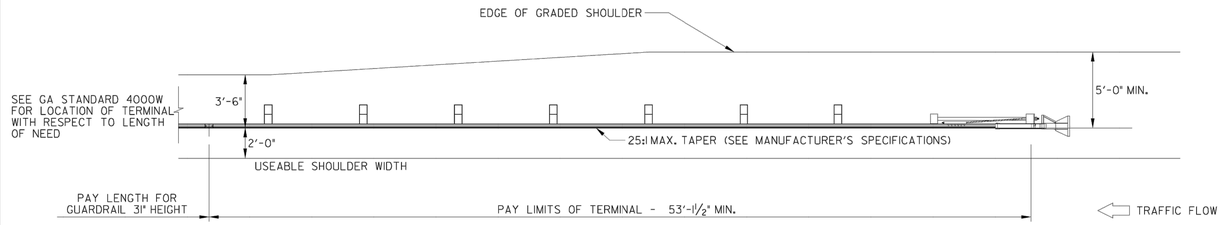
PROJECT: —

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

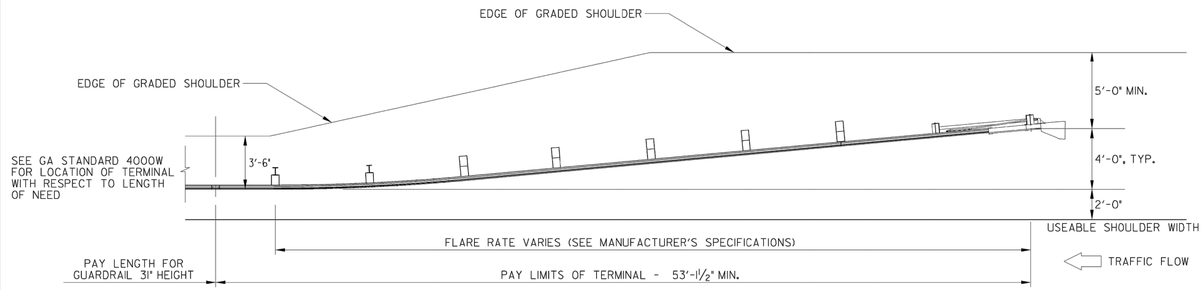


TYPE 12A - 31" GUARDRAIL TERMINAL
(TANGENT, ENERGY-ABSORBING)

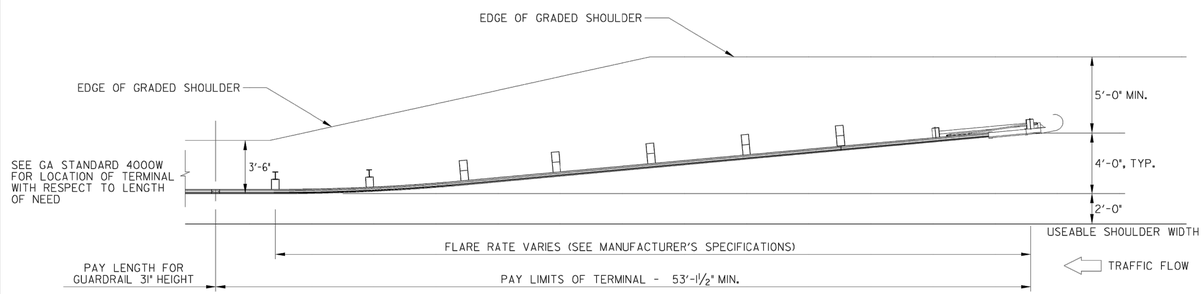
GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. SEE GDOT QPL 64 FOR APPROVED PRODUCTS.
3. THIS SHEET DEPICTS THE PAY LIMITS FOR GUARDRAIL AND TYPE 12 TERMINALS. TYPE 12 TERMINALS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
4. W-BEAM INSTALLATIONS LESS THAN 150 FEET IN ADVANCE OF ANY SHIELDED OBJECT OR TOTAL LENGTH OF W-BEAM INSTALLATION IS LESS THAN ABOUT 150 FEET, AN ENGERGY-ABSORBING TERMINAL SHOULD BE SELECTED.

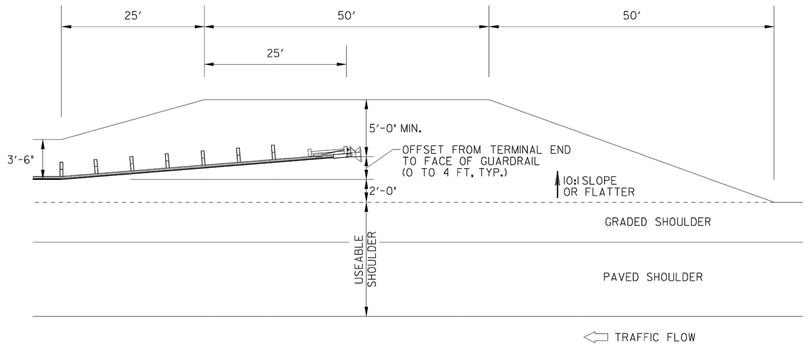
ITEM NO.	UNITS	DESCRIPTION
641-5015	EA	GUARDRAIL TERMINAL, TP 12A - 31", TANGENT, ENERGY-ABSORBING
641-5020	EA	GUARDRAIL TERMINAL, TP 12B - 31", FLARED, ENERGY-ABSORBING
641-5025	EA	GUARDRAIL TERMINAL, TP 12C - 31", FLARED, NON-ENERGY-ABSORBING



TYPE 12B - 31" GUARDRAIL TERMINAL
(FLARED, ENERGY-ABSORBING)



TYPE 12C - 31" TERMINAL
(FLARED, NON-ENERGY-ABSORBING)



TERMINAL PAD GRADING DETAIL

BY	DATE	REVISION
FBF	1-29-16	ADDED 12A, 12B & 12C; ADDED GRADING DTL

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
GUARDRAIL TERMINALS,
TYPE 12A, 12B, AND 12C
31 INCH GUARDRAIL HEIGHT

NO SCALE — AUGUST 2011

DES.	G.L.O.	(SUBMITTED)
DRW.	G.L.O.	STATE DESIGN POLICY ENGINEER
CHK.	B.R.E.	(APPROVED)
REVIEW	B.A.S.	CHIEF ENGINEER

NUMBER 4384

MORELAND ALTOBELLI — AN ATLAS COMPANY
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	NAME	DATE
DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CONSTRUCTION DETAILS

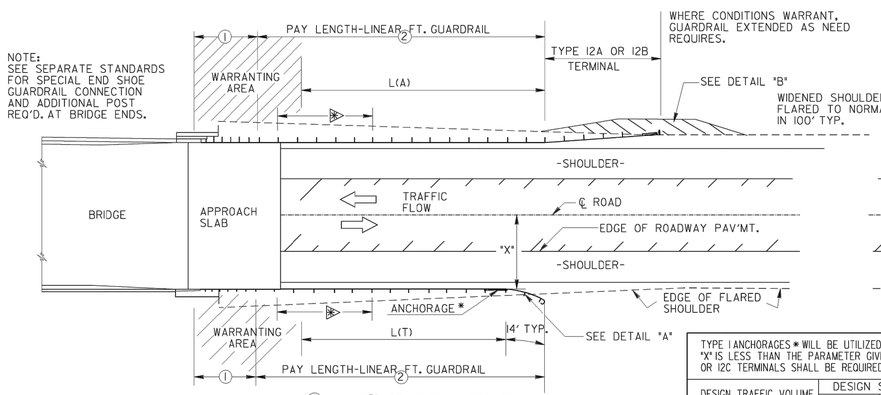
McNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER
41-0012

PROJECT: ___

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

NOTE:
FOR MINIMAL REDUCTION (TO 2') OF SHOULDER ACROSS BRIDGE, ALIGNMENT SHALL BE STRAIGHT FOR SHORT INSTALLATIONS (LESS THAN 200' TOTAL) AS SHOWN HEREON. FOR LONGER INSTALLATIONS, OR GREATER REDUCTION OF SHOULDER WIDTH, GUARDRAIL INSTALLATION SHALL BE AS PER DETAIL AT BOTTOM MIDDLE.



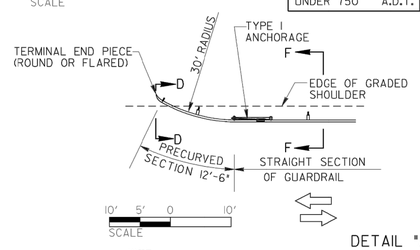
① = 20'-7¾" OF "T" BEAM (STD. 4382)
② = VARIABLE LENGTH OF "W" BEAM (6'-3" POST SPA.)

GUARDRAIL LOCATION AT BRIDGE ENDS

20' 10' 0 20'
SCALE

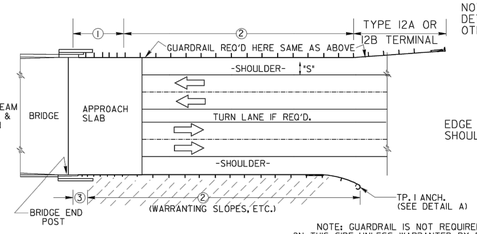
TRAFFIC VOLUME	MIN. L(T)	MIN. L(A)
DHV OVER 400	100'-0"	137'-6"
DHV 200-400	87'-6"	125'-0"
DHV 100-200	75'-0"	112'-6"
ADT 400 & OVER	62'-6"	100'-0"
ADT UNDER 400	50'-0"	87'-6"

NOTE: THESE MINIMUM LENGTHS ARE FOR STRAIGHT ALIGNMENTS IN ADVANCE OF WARRANTING AREA.



DETAIL "A"

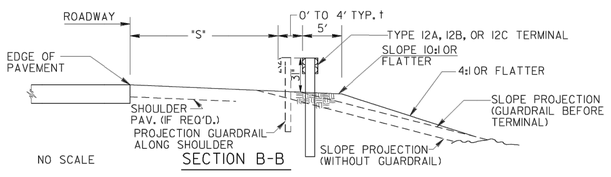
NOTE:
DETAIL "A" IS FOR USE ONLY WHERE TYPE I ANCHORAGES ARE PERMITTED AS SHOWN ABOVE OTHERWISE, SEE DETAIL "B" FOR PROPER INSTALLATION OF TYPE 12A, 12B, OR 12C TERMINAL.



NOTE: GUARDRAIL IS NOT REQUIRED ON THIS SIDE UNLESS WARRANTED BY ROAD SIDE CONDITIONS.

GUARDRAIL AT BRIDGE END OF MULTI-LANE UNDIVIDED HIGHWAY

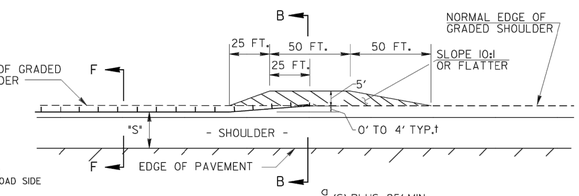
NO SCALE

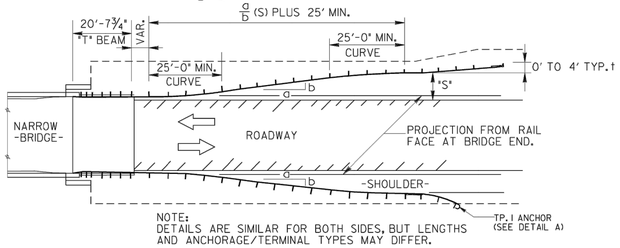


NO SCALE

SECTION B-B

DETAIL "B"

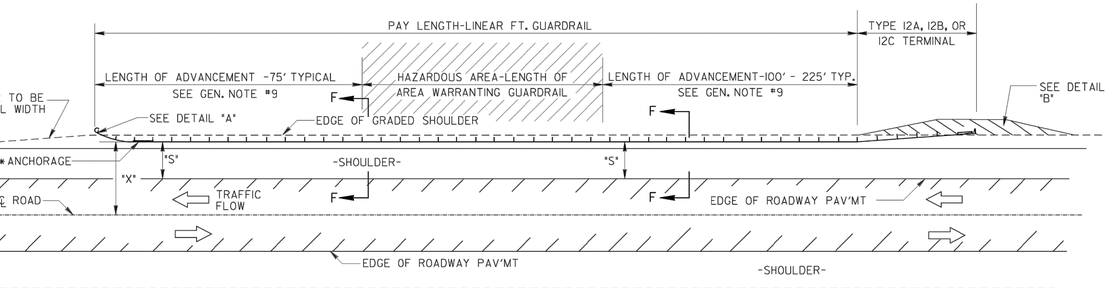




NOTE:
DETAILS ARE SIMILAR FOR BOTH SIDES, BUT LENGTHS AND ANCHORAGE/TERMINAL TYPES MAY DIFFER.

GUARDRAIL LOCATION AT END OF NARROW BRIDGE

(NOTE: DETAILS NOT SHOWN HERE ARE SIMILAR TO THOSE AT TOP LEFT.)



NOTE:
GUARDRAIL TO BE LOCATED ON BOTH SIDES OF ROAD IF CONDITIONS WARRANT.

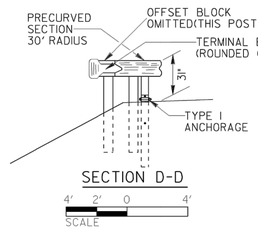
GUARDRAIL LOCATION ALONG ROADWAY

20' 10' 0 20'
SCALE

TYPE I ANCHORAGES * WILL BE UTILIZED AT THE TRAILING END, UNLESS THE DISTANCE "X" IS LESS THAN THE PARAMETER GIVEN IN THIS TABLE IN WHICH CASE TYPE 12A, 12B, OR 12C TERMINALS SHALL BE REQUIRED.

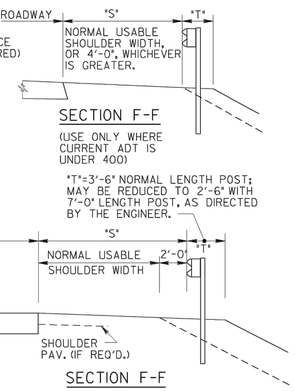
DESIGN TRAFFIC VOLUME	DESIGN SPEEDS (AS SHOWN ON COVER SHEET)				
	40 MPH	50 MPH	55 MPH	60 MPH	70 MPH
OVER 6000 A.D.T.	14'	20'	22'	30'	30'
1500 - 6000 A.D.T.	12'	16'	20'	26'	28'
750 - 1500 A.D.T.	10'	14'	16'	20'	24'
UNDER 750 A.D.T.	7'	10'	12'	16'	20'

"S" IS THE OFFSET TO THE FACE OF THE GUARDRAIL; THIS WILL BE TWO(2) FEET GREATER THAN THE USABLE SHOULDER WIDTH (PER AASHTO MINIMUM SHOULDER REQUIREMENTS) EXCEPT WHERE THE CURRENT A.D.T. IS UNDER 400, IN WHICH CASE "S" MAY BE EQUAL TO THE USABLE OR GRADED SHOULDER WIDTH (NOT LESS THAN 4).



SECTION D-D

4' 2' 0 4'
SCALE



SECTION F-F

(USE FOR ALL CONDITIONS, EXCEPT WHERE CURRENT ADT IS UNDER 400.)

FLARE RATE			
DESIGN SPEED (mph)	SHY-LINE OFFSET (ft)	(a/b) BARRIER INSIDE SHY-LINE	(a/b) BARRIER AT OR BEYOND SHY-LINE
70	9	30	15
60	8	26	14
55	7	24	12
50	6.5	21	11
45	6	18	10
40	5	16	8
30	4	13	7

IF THE OFFSET FROM THE EDGE OF THE TRAVEL LANE TO THE FACE OF THE GUARDRAIL AT ANY POINT ALONG THE INSTALLATION IS LESS THAN THE SHY-LINE OFFSET, USE THE FLATTER RATES GIVEN IN THE TABLE.

GENERAL NOTES:

1. GUARDRAIL, ITS FITTINGS, PARTS, ETC. ARE TO BE IN ACCORDANCE WITH GEORGIA STANDARD SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
2. FOR DETAILS OF BEAM TYPE GUARDRAIL, ACCESSORIES, GUARDRAIL POST, OFFSET BLOCKS, GUARDRAIL ANCHORAGE TYPE I, TERMINALS TYPE 12A, 12B, AND 12C, & BRIDGE END CONNECTION DETAILS, SEE APPLICABLE GEORGIA STANDARD PLANS AND/OR CONSTRUCTION DETAILS.
3. ALL OFFSET AND LENGTHS HERE SHOWN ARE APPLIED TO FACE OF GUARDRAIL.
4. POST SPACING SHALL BE 6'3" C. TO C., UNLESS OTHERWISE NOTED.
5. TYPE 12A, 12B, AND 12C TERMINALS SHOULD BE TERMINATED ON SLOPES 10:1 OR FLATTER. WHERE NORMAL SLOPE IS STEEPER, A 10:1 OR FLATTER SLOPE SHOULD BE CONSTRUCTED.
6. GUARDRAIL SHALL NOT BE ERECTED ON SLOPES WHICH ARE STEEPER THAN 10:1, EXCEPT FOR THE PORTION OF PRECURVED (SHOP CURVED) SECTION THAT EXTENDS BACK OF THE SHOULDER AS SHOWN IN DETAIL "A" WHICH IS ERECTED ON NORMAL SLOPES OR EXCEPT WHERE SHOWN OTHERWISE IN PLANS.
7. PAY LENGTH SHALL BE MEASURED ALONG FACE OF GUARDRAIL.
8. W. BEAM GUARDRAIL WILL HAVE A CONSTANT TOP OF RAIL HT. OF 31" THROUGHOUT INSTALLATION EXCEPT WHERE A PORTION OF THE PRECURVED SECTION SHOWN IN DETAIL "A" EXTENDS BACK OF THE GRADED SHOULDER.
9. GUARDRAIL WILL EXTEND PAST HAZARD ON BOTH THE APPROACH & TRAILING ENDS TO PREVENT VECHICLE PENETRATION BEHIND THE RAIL INTO THE HAZARDOUS AREA. THE TYPICAL LENGTHS OF ADVANCEMENT SHOWN MAY BE INCREASED OR DECREASED WHEN SHOWN IN THE PLANS, OR WHERE DIRECTED BY THE ENGINEER BECAUSE OF SPEED DESIGN, ROADSIDE GEOMETRY, SIZE OF HAZARD, OR OTHER CONDITIONS. IF FURTHER INFORMATION IS DESIRED; SEE THE AASHTO "ROADSIDE DESIGN GUIDE".

SPECIAL NOTE:
LOCATION AND QUANTITIES GIVEN IN THE PLANS FOR GUARDRAIL, TERMINALS, AND ANCHORAGES ARE ESTIMATES MADE FROM OFFICE COMPUTATIONS. A FINAL DETERMINATION AS TO LOCATIONS AND QUANTITIES OF GUARDRAIL, TERMINALS, AND ANCHORAGES WILL BE MADE BY THE ENGINEER OR A REPRESENTATIVE FROM THE OFFICE OF TRAFFIC OPERATIONS AFTER CONSTRUCTION OF ROADWAY.

† SEE GA STANDARD 4384 FOR OFFSETS AND FLARE RATES FOR TYPE 12A, 12B, AND 12C TERMINALS.

BY	REVISION	DATE
FBF	REV TP 12 TO 12A/B/C; REV NOTES, AND FLARE TBL	1-29-16

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
GUARDRAIL LOCATION DETAILS FOR UNDIVIDED HIGHWAYS AND ROADS (WITH SHOULDERS ADJACENT TO THE ROADWAY) 31 INCH GUARDRAIL HEIGHT

SCALE AS SHOWN — AUGUST 2011

DES. G.L.O.
DRW. G.L.O.
CHK. B.R.E.
REVIEW B.A.S.

(SUBMITTED) STATE DESIGN POLICY ENGINEER
(APPROVED) Margaret B Pinelo CHIEF ENGINEER

NUMBER 4388

MORELAND ALTOBELLI — AN ATLAS COMPANY —
Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	4-19-19
DRAWN BY	NAA	4-19-19
CHECKED BY	KEQ	4-19-19

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CONSTRUCTION DETAILS

McNUTT ROAD AND McNUTT WAY

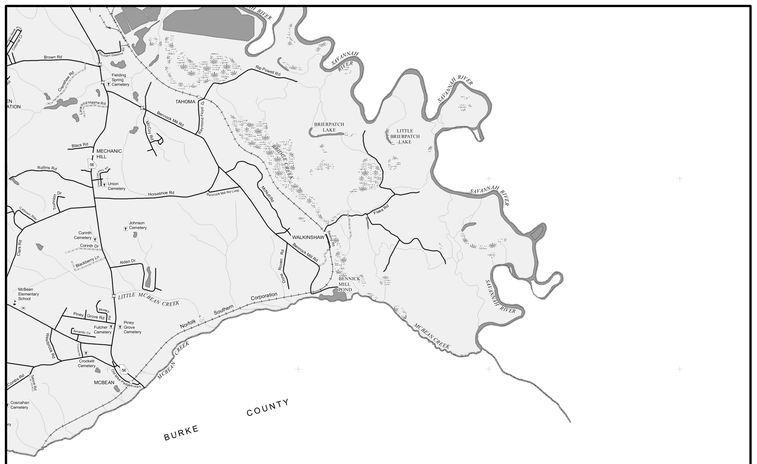
DRAWING NUMBER
41-0013

Augusta | PROJECT

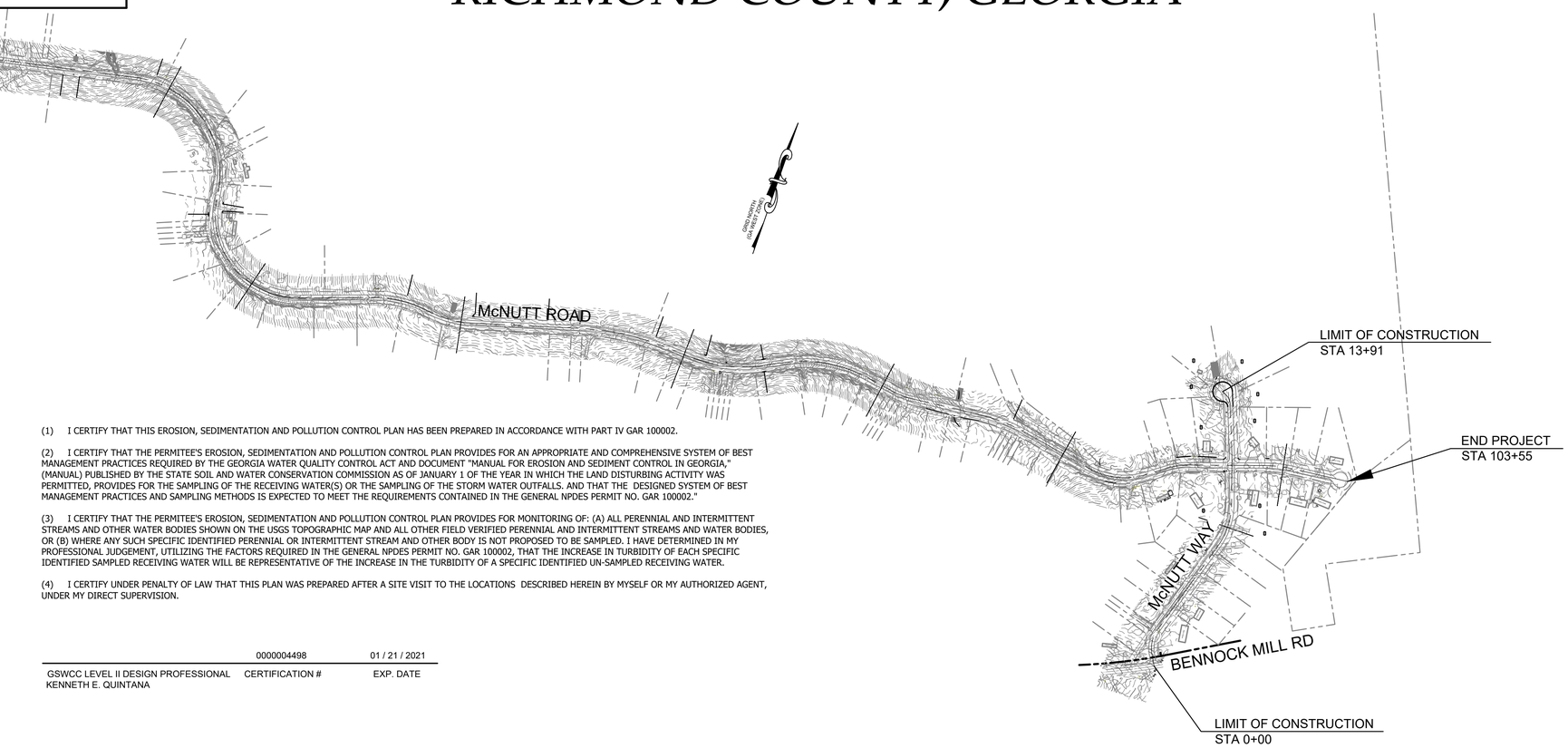
EROSION, SEDIMENT & POLLUTION CONTROL PLAN
AND
COMPREHENSIVE MONITORING PROGRAM

McNUTT ROAD AND
McNUTT WAY

CITY OF AUGUSTA
RICHMOND COUNTY, GEORGIA



LOCATION SKETCH



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

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

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

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

GSWCC LEVEL II DESIGN PROFESSIONAL KENNETH E. QUINTANA	CERTIFICATION #	EXP. DATE
	0000004498	01 / 21 / 2021

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.

CONSTRUCTION EXIT NO. 1
GPS LOCATION
N 33.29167
W -81.92139

CONSTRUCTION EXIT NO. 2
GPS LOCATION
N 33.27667
W -81.90833

GEORGIA 811
www.Georgia811.com
Know what's below. Call before you dig.

24 HOUR CONTACT:

NAME:_____

STREET ADDRESS:_____

CITY, STATE, ZIP:_____

PHONE NUMBER:_____

EMAIL ADDRESS:_____

CONTRACTOR SHALL COMPLETE THE INFORMATION IN THIS BOX.

MORELAND ALTOBELLI
– AN ATLAS COMPANY –
2450 Commerce Avenue
Suite 100
Duluth, Georgia 30096
Telephone (770) 263-5945

PLANS COMPLETED - -	
REVISIONS	

THIS PROJECT IS 100% WITHIN RICHMOND COUNTY AND IS 100% IN CONG. DIST. 12.

DRAWING NO. 50-0001

PROJECT: ___

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. Admendments/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.

INITIAL PHASE:

Placement of perimeter erosion control barrier prior to the commencement of any clearing activities. Land disturbance activities shall only occur after the appropriate BMP's have been installed. These BMPs are to be in place until the Final Phase.

INTERMEDIATE PHASE:

Construction activities detailed in the construction staging plans. this includes grading, drainage, paving and installation of major structures. Throughout this phase, temporary erosion control measures shall be installed and maintained as depicted by the BMP installation details.

FINAL PHASE:

Final grading, grassing, mulching and other miscellaneous items. Removal and proper cleanup of temporary erosion control. Placement of permanent erosion control items as detailed in the plans.

SITE STABLIZATION AND VEGETATION PLANTING SCHEDULE

The EPD General NPDES GAR100002 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 GAR100002 for inclusion with these plans. The Contractor's attention is specifically directed to Standard Specification 107-Legal Regulations and Responsibility to the public for additional requirements.

WASTE DISPOSAL

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

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 GAR100002 NPDES permit by utilizing a Certified Design Professional. No separate payment will be made for water quality sampling of pump discharges.

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 stucco, paint,oils, curing compounds, and other construction materials.

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".

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, enhanced dry/wet swales, vegetated swales/ditches, vegetation, riprap at pipe outlets for velocity dissipation and outlet stabilization, slope stabilization matting, and rip rap 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:

SOILS LEGEND		
MAP UNIT SYMBOL	MAP UNIT NAME	RATING
LmB	LUCY LOAMY SAND 1% TO 5% -	B
LmD	LUCY LOAMY SAND 8% TO 15% SLOPES	B
TwB	TROUP FIND SAND 1% TO 5% SLOPES	A
TwC	TROUP FIND SAND 5% TO 10% SLOPES	A
TwD	TROUP FIND SAND 10% TO 17% SLOPES	A

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.

EROSION CONTROL REQUIRED STATEMENTS:

1. **EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**
2. **ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.**
3. **EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.**
4. **THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.**
5. **MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE PROPERTY OWNER.**
6. **THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION.**
7. **NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF 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.**
8. **AMENDMENTS/REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.**
9. **WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.**

MORELAND ALTOBELLI — AN ATLAS COMPANY —
Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

ES&PC GENERAL NOTES

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER
51 - 0001

PROJECT: ___

SEDIMENT STORAGE

The site has a total disturbed area of 22.14 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.

Location	Total Drainage Area (acres)	Disturbed Area (acres)	Required Sediment Storage Volume (yd^3)	Total Storage Volume Provided (yd^3)	Temporary Sediment Basins		Check Dams (# yd^3/each)		Inlet Sediment Traps (# yd^3/each)		Silt Gates (# yd^3/each)		Silt Fence (0.3 yd^3/ft)	
					Basin #	Total Volume (yd^3)	# of Devices	Total Volume (yd^3)	# of Devices	Total Volume (yd^3)	# of Devices	Total Volume (yd^3)	Length (ft)	Total Volume (yd^3)
Outfall A1	11.1	1.68	113	607			17	607						
Outfall B1	8.5	1.23	82	429			12	429						
Outfall C1	16.7	1.53	103	147			46	147						
Outfall D1	14.6	2.58	173	483			76	483						
Outfall E1	52.1	2.39	160	260			97	260						
Outfall F1	22.5	2.23	149	277			31	277						
Outfall G1	52.9	3.9	261	496			87	496						
Outfall H1	10.5	3.7	248	298			50	298						
Total Sheet Flow		2.9	194	919									3064	919

USE OF ALTERNATIVE AND/OR ADDITIONAL BMPS:

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

RIPRAP OUTLET PROTECTION

Structure #, Outfall ID#, or Station and Offset	Pipe Diameter Do (ft)	Q_{25} (ft^3/s)	V_{25} (ft/s)	Tailwater Condition (TW<0.5 Do TW>0.5 Do)	Width at Drainage Structure W1=3Do (ft)	Apron Length La (ft)	Downstream Width W2=Do+La (ft)	Average Stone Diameter d_{50} (ft)	Apron Thickness D (ft)	Riprap Type (Type 3 or Type 1)	Quantity (yd^2)
A-1	*1.5*	*4.5*	*6.19*	*TW<0.5 Do*	*4.50*	*10*	*11.50*	*0.50*	*0.75*	*Type 3*	*9*
B-1	*2.0*	*9.0*	*5.46*	*TW<0.5 Do*	*6.00*	*10*	*12.00*	*0.50*	*0.75*	*Type 3*	*10*
C-1	*1.5*	*2.3*	*5.34*	*TW<0.5 Do*	*4.50*	*10*	*11.50*	*0.50*	*0.75*	*Type 3*	*9*
D-1	*1.5*	*1.1*	*3.69*	*TW<0.5 Do*	*4.50*	*10*	*11.50*	*0.50*	*0.75*	*Type 3*	*9*
E-1	*2.0*	*2.2*	*4.17*	*TW<0.5 Do*	*6.00*	*10*	*11.50*	*0.50*	*0.75*	*Type 3*	*10*
F-1	*1.5*	*0.2*	*1.26*	*TW<0.5 Do*	*4.50*	*10*	*12.00*	*0.50*	*0.75*	*Type 3*	*9*
G-1	*3.0*	*7.7*	*3.81*	*TW<0.5 Do*	*9.00*	*15*	*24.00*	*0.75*	*1.00*	*Type 3*	*28*
H-1	*1.5*	*0.6*	*2.49*	*TW<0.5 Do*	*4.50*	*10*	*11.50*	*0.50*	*0.75*	*Type 3*	*9*

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).

CHANNEL PROTECTION

All channels may be stabilized exclusively with permanent grassing. All roadside ditches on this project have velocity less than 5.0 fps; therefore, only permanent grassing will be used to stabilize ditches.

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 Special Provision 167 and other contract documents for the inspecting and sampling procedures. Sampling locations are provided in the Sampling Location table herein.

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 GAR100002.

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

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

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. When the repair does not require a new or replacement BMP or significant repair, the BMP failure or deficiency must be corrected by the close of the next business day from the time of discovery. A repair requiring a new or replacement BMP or significant repair must be operational by no later than 7 days from the time of discovery. If the repair time within 7 days is infeasible, the Contractor and the Department shall schedule the BMP repair to be operational as soon as practical after the 7 day time frame.

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

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 construction activity types are new road on fill, new road in cut, road widening, and maintenance/safety. The disturbed area classes are less than or equal to 1 acre, greater than 1 acre to less than 2 acres, and equal to or greater than 2 acres. The average outfall slope is mild if it is equal to or less than 0.03, and steep if it is greater than 0.03. The soil erosion index is low if it is less than or equal to 5 and high if it is greater than 5. After evaluation of these characteristics as presented in the project's drainage area map, hydrology and hydraulic studies, construction plans, geotechnical soil survey, and erosion sedimentation and pollution control plans, the Department has determined that the representative sampling scheme shown below is valid for the duration of the project. The table shows the groups of similar outfall drainage basins.

Note: The Total Site Area is 21.6 acres.											**Representative Sampling Scheme**				
SAMPLING INFORMATION											**OUTFALL CHARACTERISTICS**				
Primary Sampled Feature	**Location (Station and Offset)**	**Name of Receiving Water**	**Applicable Construction Stage for Sampling**	**Sampling Type (Outfall or Receiving water)**	**Drainage Area for Receiving Water (mi^2)**	**Upstream Disturbed Area (acres)**	**Warm or Cold Water Stream**	**Appendix B NTU Value (Outfall Sampling only)**	**Allowable NTU Increase (Receiving water sampling only)**	**Location Description**	**Construction Activity**	**Disturbed Area (acres)**	**Average Outfall Slope (Rise/Run)**	**Soil Erosion Index**	**Represented Outfall Drainage Basins**
1 Up	7+81, 22' LT	Bridge Creek	All	Outfall	3.5		Warm	50	N/A	End of Ditch	New Road-Fill	N/A	0.02	N/A	N/A
1 Dn	84+59, 40' LT	Bridge Creek	All	Outfall	4.2		Warm	50	N/A	End of Ditch	New Road-Fill	N/A	0.05	N/A	N/A

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.

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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

ES&PC GENERAL NOTES

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER
51 - 0002

PROJECT: ___

Georgia Soil and Water Conservation Commission

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST

INFRASTRUCTURE CONSTRUCTION PROJECTS

SWCD: BRIER CREEK (REGION 3)

Project Name: McNUTT ROAD AND McNUTT WAY PAVING **Address:** McNUTT ROAD, AUGUSTA, GEORGIA

City/County: RICHMOND COUNTY **Date on Plans:** ____

Name & Email of Person Filling Out Checklist: NATHAN ADAMS nathan.adams@oneatlas.com

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
51-0001	Y	1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
50-0001	Y	2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed)
50-0001	Y	3 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
50-0001	Y	4 Provide the name, address, email address, and phone number of primary permittee.
		5 Note total and disturbed acreage of the project or phase under construction.
50-0001	Y	6 Provide the GPS locations of the beginning and end of the Infrastructure project. Give the Latitude and Longitude in decimal degrees.
50-0001	Y	7 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
		8 Description of the nature of construction activity.
		9 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
		10 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
		11 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 21 of the permit.
		12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 20 of the permit.*
		13 Design professional certification statement and signature that the permittee's ES&PC Plan provides for representative sampling as stated on Part IV.D.6.c.(3) page 37 of permit as applicable.*
		14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements, perimeter control BMPs, and sediment basins within 7 days after installation." in accordance with Part IV.A.5. page 26 of the permit.*
		15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of 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."
		16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
		17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."*
		18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a section 404 permit."*
		19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
		20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
		21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
		22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of an Biota Impaired Stream Segment must comply with Part III. C. of the Permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.*
		23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.*
		24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.*
		25 Provide BMPs for the remediation of all petroleum spills and leaks.
		26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.*
		27 Description of practices to provide cover for building materials and building products on site.*
		28 Description of the practices that will be used to reduce the pollutants in storm water discharges.*

Plan Page #	Included Y/N	TO BE SHOWN ON ES&PC PLAN
		29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
		30 Provide complete requirements of inspections and record keeping by the primary permittee.*
		31 Provide complete requirements of sampling frequency and reporting of sampling results.*
		32 Provide complete details for retention of records as per Part IV.F. of the permit.*
		33 Description of analytical methods to be used to collect and analyze the samples from each location.*
		34 Appendix B rationale for NTU values at all outfall sampling points where applicable.*
		35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged also provide a summary chart of the justification and analysis for the representative sampling as applicable.*
		36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the plan may combine all of the BMPs into a single phase.*
		37 Graphic scale and North arrow.
		38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:

Existing Contours	USGS 1": 2000' Topographical Sheets
Proposed Contours	1" : 400' Centerline Profile

		39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by EPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.org.
		40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition.*
		41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to State waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
		42 Delineation of on-site wetlands and all State waters located on and within 200 feet of the project site.
		43 Delineation and acreage of contributing drainage basins on the project site.
		44 Delineate on-site drainage and off-site watersheds using USGS 1" :2000' topographical sheets.
		45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
		46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
		47 Soil series for the project site and their delineation.
		48 The limits of disturbance for each phase of construction.
		49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual must be included for structural BMPs and all calculations used by the design professional to obtain the required sediment storage when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasable, a written justification explaining this decision must be included in the plan.
		50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
56-0000	Y	51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
		52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of year that seeding will take place and for the appropriate geographic region of Georgia.

*If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream the * checklist items would be N/A.

Effective January 1, 2019

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Augusta GEORGIA

McNUTT ROAD ROAD CONSTRUCTION PLANS

REVISION DATES

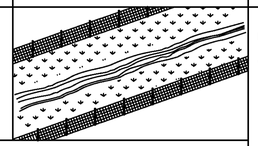
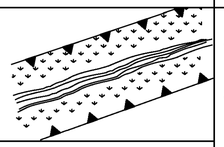
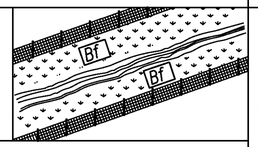
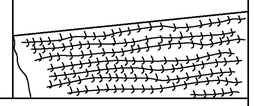
ES&PC GENERAL NOTES

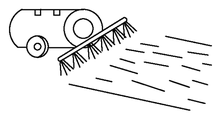
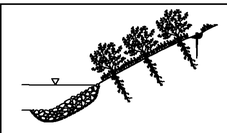
McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER **51 - 0003**

D:\Data\Projects\McNutt Road\Design\McNutt Road Erosion Control (10-2-19).dwg, 5/27/2021 3:50:29 PM

PROJECT: —

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	 ORANGE BARRIER FENCE	
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. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
	SYMBOL	Ds1	
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. THE BMP SYMBOL FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
	SYMBOL	Ds2	

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. THE BMP PATTERN FOR APPLICABLE AREAS AND/OR A NOTE SHALL BE INCLUDED ON APPLICABLE SHEETS IN SECTION 54.
	PATTERN		
Fl-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	Fl-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		

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION 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".

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

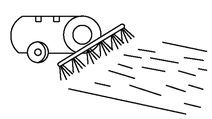
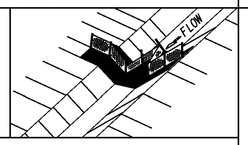
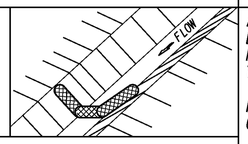
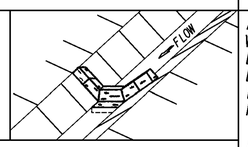
REVISION DATES

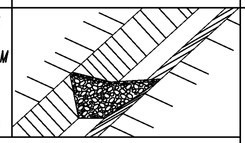
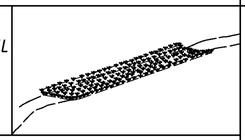
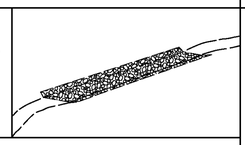
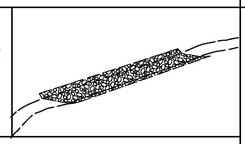
EROSION CONTROL LEGEND

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER
52 - 0001

PROJECT: —

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716 PATTERN Ss		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.
Tac	TACKIFIERS SECTION 163, 700, 895 SYMBOL Tac POLYACRYLAMIDE		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.
Cd-F	FABRIC CHECK DAM CONSTRUCTION DETAIL D-24D SECTION 171 SYMBOL Cd-F		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.
Cd-Fs	COMPOST FILTER SOCK CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163 SYMBOL Cd-Fs		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.
Cd-Hb	BALED STRAW CHECK DAM CONSTRUCTION DETAIL D-52 SECTION 163 SYMBOL Cd-Hb		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 SPLASH PAD. 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.

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 SYMBOL Cd-S		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.
Ch-1	VEGETATED CHANNEL STABILIZATION SECTION 700 LINE CODE Ch-1		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.
Ch-2R1	CHANNEL STABILIZATION RIP-RAP, TYPE 1 CONSTRUCTION DETAIL D-49 SECTION 603 LINE CODE Ch-2R1		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.
Ch-2R3	CHANNEL STABILIZATION RIP-RAP, TYPE 3 CONSTRUCTION DETAIL D-49 SECTION 603 LINE CODE Ch-2R3		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.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION 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".

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DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

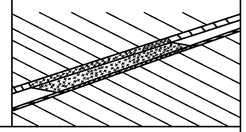
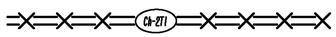
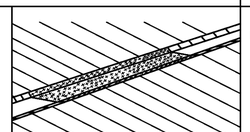
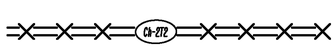
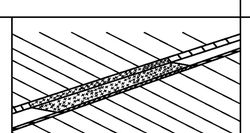
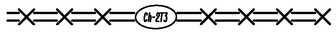
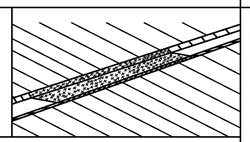
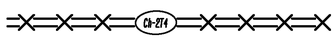
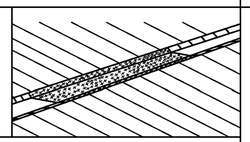
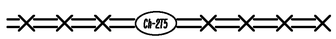
REVISION DATES

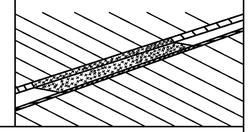
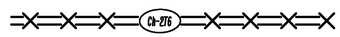
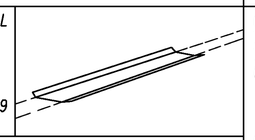
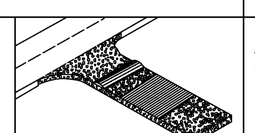
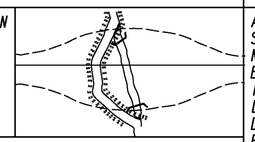
EROSION CONTROL LEGEND

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER
52 - 0002

PROJECT: —

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	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.
Ch-2T2	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	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.
Ch-2T3	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	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.
Ch-2T4	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	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.
Ch-2T5	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	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.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	 LINE CODE 	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.
Ch-3	CONCRETE CHANNEL STABILIZATION CONSTRUCTION DETAIL D-10, D-49 SECTION 441	 LINE CODE 	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.
Co	CONSTRUCTION EXIT CONSTRUCTION DETAIL D-41 SECTION 163, 800	 SYMBOL 	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.
Dc-A	STREAM DIVERSION CHANNEL GEOTEXTILE, POLYETHYLENE FILM SECTION 163	 LINE CODE 	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 Sdl-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.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION 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".

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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

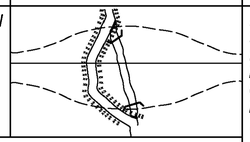
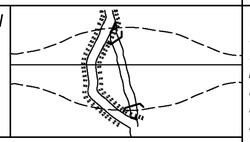
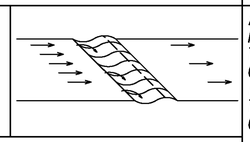
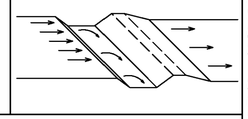
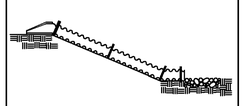
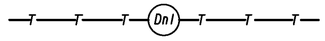
REVISION DATES

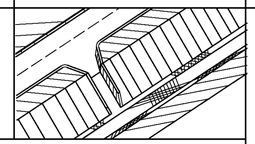
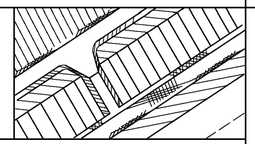
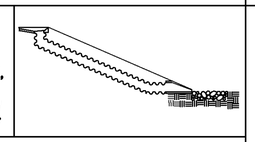
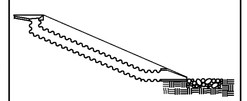
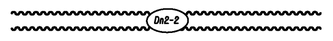
EROSION CONTROL LEGEND

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER
52 - 0003

PROJECT: —

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 SdI-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 SdI-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 'DnI'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 		
DnI	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-I	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TPI, 9017J TPI, DETAIL D-26 TPI SECTION 576, 577		CONCRETE DRAIN INLET WITH METAL PIPE IS USED TO DRAIN CURBS, ON A GRADE, DOWN TO A LOWER ELEVATION. THIS IS A PERMANENT STRUCTURE, REQUIRING OUTLET PROTECTION, TEMPORARY AND PERMANENT. INLETS SHALL BE SPACED ACCORDING TO GDOT GUIDELINES (REGARDING GUTTER SPREAD AND OR OTHER CRITERIA).
	LINE CODE 		
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:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION 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".

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DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

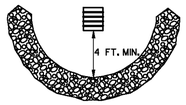
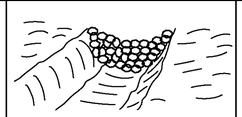
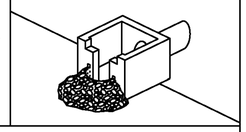
REVISION DATES

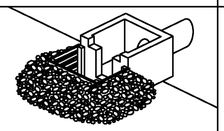
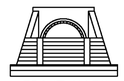
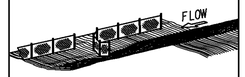
EROSION CONTROL LEGEND

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER
52 - 0004

PROJECT: —

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Fr	FILTER RING CONSTRUCTION DETAIL D-46 SECTION 163 SYMBOL: Fr		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.
Rd	ROCK FILTER DAM CONSTRUCTION DETAIL D-43 SECTION 163, 603 SYMBOL: Rd		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.
Rd-B	STONE FILTER BERM CONSTRUCTION DETAIL D-50 SECTION 163, 603 LINE CODE: —Rd-B—		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.
Rp	RIP-RAP SECTION 603 PATTERN: Rp		RIP-RAP IS A FLEXIBLE PERMANENT BLANKET FOR PROTECTION OF FILL SLOPES AND BRIDGE END ROLLS. RIP-RAP TYPE-I 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.
Rt-P	RETROFITTING PERFORATED HALF-ROUND PIPE CONSTRUCTION DETAIL D-44 SECTION 163 SYMBOL: Rt-P		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.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Rt-B	RETROFITTING SLOTTED BOARD DAM CONSTRUCTION DETAIL D-45 SECTION 163 SYMBOL: Rt-B		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.
Rt-Sg1 Rt-Sg2 Rt-Sg3	RETROFITTING SILT CONTROL GATES CONSTRUCTION DETAIL D-20 SECTION 163 SYMBOL: Rt-Sg1 Rt-Sg2 Rt-Sg3		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
Sdl-NS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171 LINE CODE: —A—A—A—Sdl-NS—A—A—A—		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.
Sdl-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171 LINE CODE: —C—C—C—Sdl-S—C—C—C—		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.

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION 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".

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DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

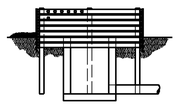
REVISION DATES

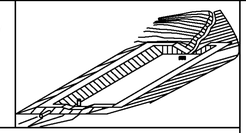
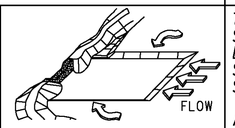
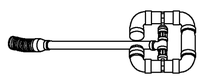
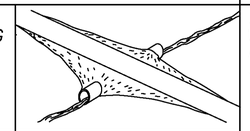
EROSION CONTROL LEGEND

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER
52 - 0005

PROJECT: —

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd1-BB	SEDIMENT BARRIER BRUSH BARRIER CONSTRUCTION DETAIL D-24B SECTION 201 LINE CODE * * * Sd1-BB * * *		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.
Sd2-B	INLET SEDIMENT TRAP (BAFFLE BOX) CONSTRUCTION DETAIL D-42 SECTION 163 SYMBOL Sd2-B		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.
Sd2-Bg	INLET SEDIMENT TRAP (BLOCK & GRAVEL) CONSTRUCTION DETAIL D-42 SECTION 163 SYMBOL Sd2-Bg		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.
Sd2-F	INLET SEDIMENT TRAP (FILTER FABRIC) CONSTRUCTION DETAIL D-24C SECTION 163 SYMBOL Sd2-F		(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.
Sd2-G	INLET SEDIMENT TRAP (GRAVEL) CONSTRUCTION DETAIL D42 SECTION 163 SYMBOL Sd2-G		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.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Sd3	TEMPORARY SEDIMENT BASIN CONSTRUCTION DETAIL D-22A, D-22B SECTION 163 SYMBOL Sd3		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.
Sd4-C	ROCK OUTLET TEMPORARY SEDIMENT TRAP CONSTRUCTION DETAIL D-53 SECTION 163 SYMBOL Sd4-C		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.
Sk	FLOATING SURFACE SKIMMER CONSTRUCTION DETAIL D-22A, D-22B SECTION 163 SYMBOL Sk		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.
Sr	TEMPORARY STREAM CROSSING SECTION 107 SYMBOL Sr		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!

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
2. FOR ADDITIONAL INFORMATION ON THE DESIGN AND APPLICATION OF EROSION 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".

MORELAND ALTOBELLI — AN ATLAS COMPANY —
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DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

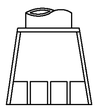
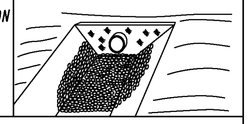
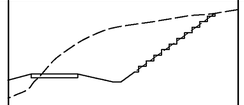
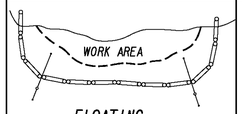
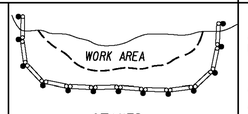
REVISION DATES

EROSION CONTROL LEGEND

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER
52 - 0006

PROJECT: —

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		
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 FLAT AREA St-Rp OR St-Rp WELL-DEFINED CHANNEL		
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 Su		
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170	 FLOATING	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-F		
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170	 STAKED	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 Tc-S		

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION

NOTE:

1. DO NOT USE EROSION CONTROL ITEMS IN A FLOWING STREAM OR IN A TIDAL AREA BELOW HIGH TIDE.
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CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

EROSION CONTROL LEGEND

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER
52 - 0007

PROJECT: —

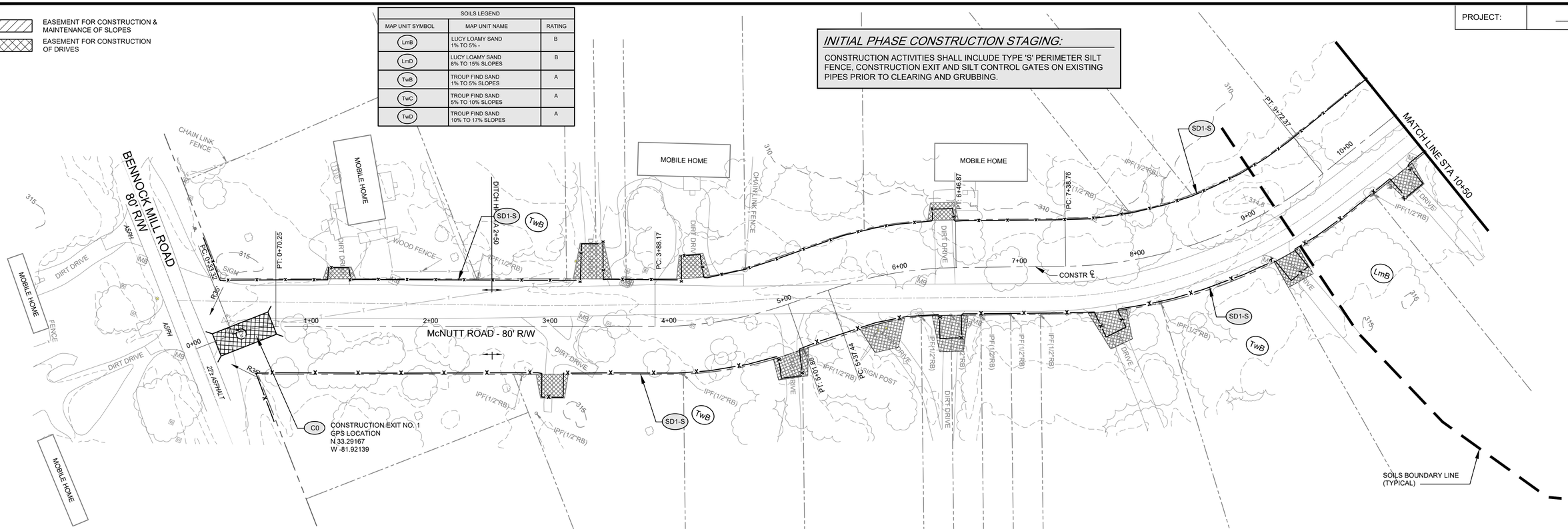
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

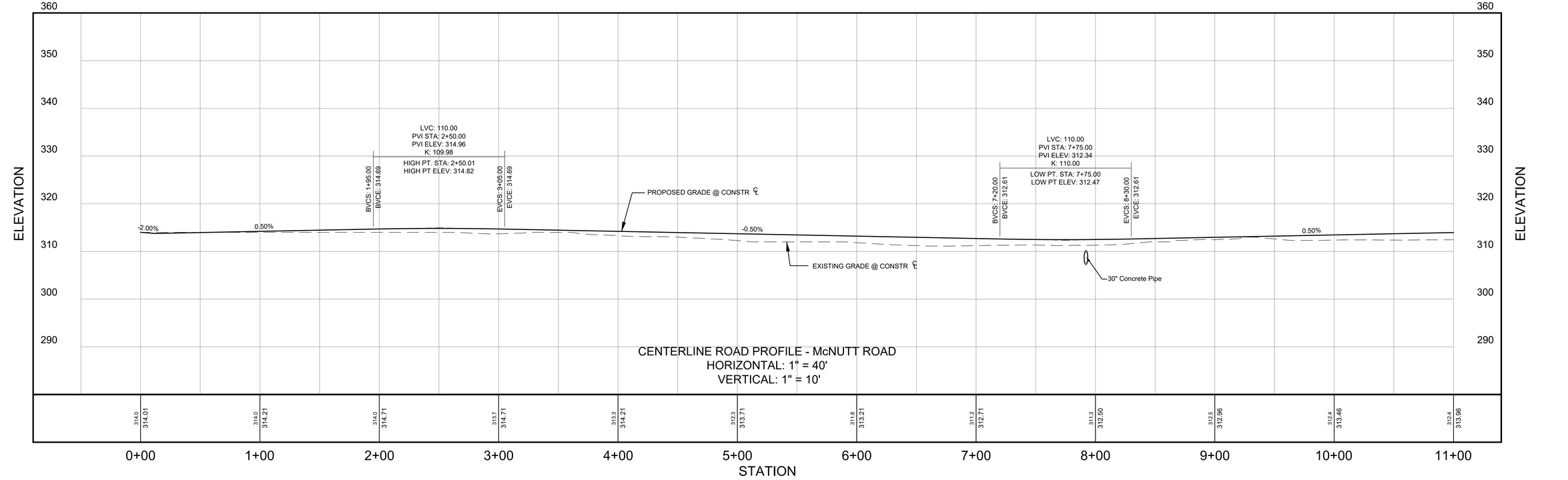
EASEMENT FOR CONSTRUCTION OF DRIVES

SOILS LEGEND		
MAP UNIT SYMBOL	MAP UNIT NAME	RATING
LmB	LUCY LOAMY SAND 1% TO 5% -	B
LmD	LUCY LOAMY SAND 8% TO 15% SLOPES	B
TwB	TROUP FIND SAND 1% TO 5% SLOPES	A
TwC	TROUP FIND SAND 5% TO 10% SLOPES	A
TwD	TROUP FIND SAND 10% TO 17% SLOPES	A

INITIAL PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE TYPE 'S' PERIMETER SILT FENCE, CONSTRUCTION EXIT AND SILT CONTROL GATES ON EXISTING PIPES PRIOR TO CLEARING AND GRUBBING.





314.0	314.0	314.0	313.7	313.3	312.3	311.8	311.2	311.3	312.5	312.4	312.4
314.01	314.21	314.71	314.71	314.21	313.71	313.21	312.71	312.50	312.96	313.46	313.96
0+00	1+00	2+00	3+00	4+00	5+00	6+00	7+00	8+00	9+00	10+00	11+00

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INITIAL PHASE
McNUTT ROAD
0+00 TO 10+50

DRAWING NUMBER

54-0001

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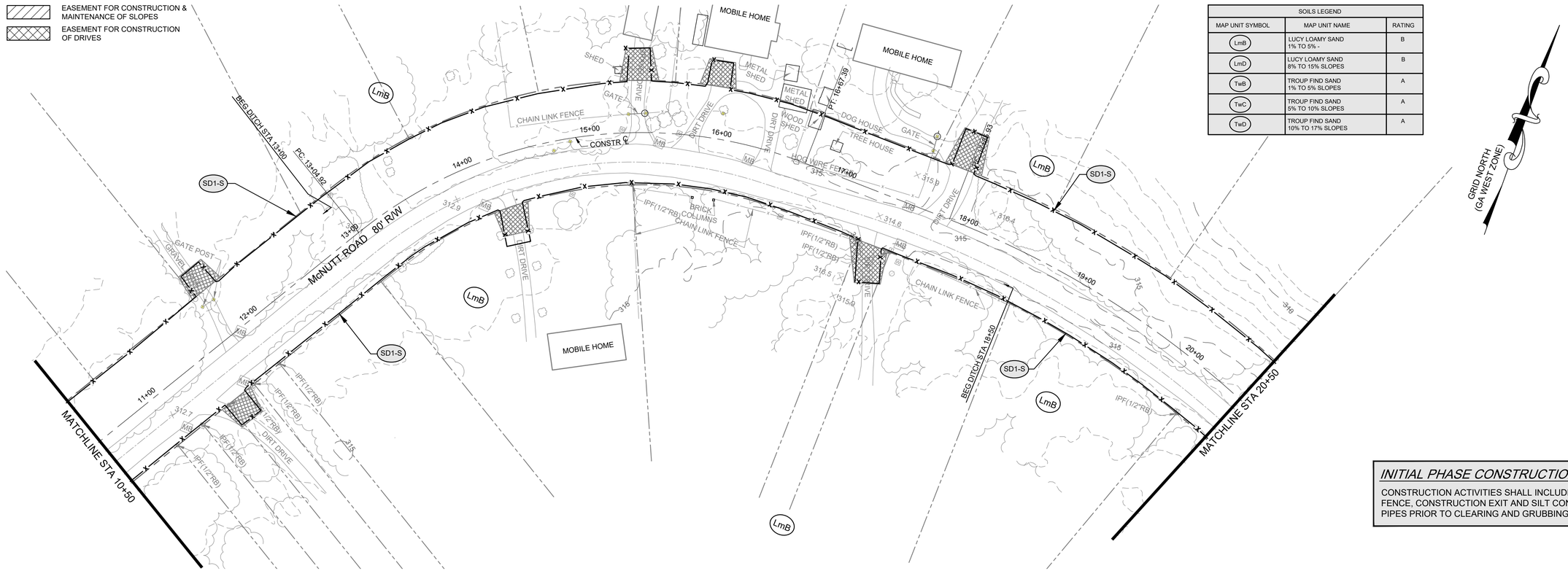
PROJECT: —

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

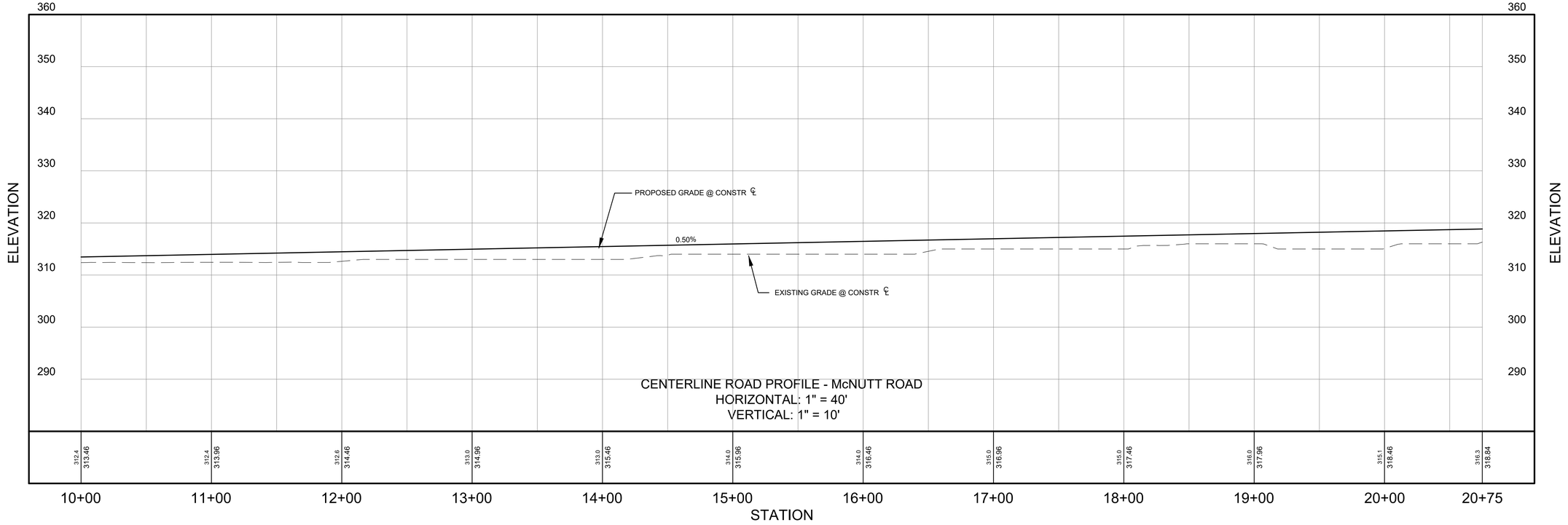
EASEMENT FOR CONSTRUCTION OF DRIVES

SOILS LEGEND		
MAP UNIT SYMBOL	MAP UNIT NAME	RATING
LmB	LUCY LOAMY SAND 1% TO 5% -	B
LmD	LUCY LOAMY SAND 8% TO 15% SLOPES	B
TwB	TROUP FIND SAND 1% TO 5% SLOPES	A
TwC	TROUP FIND SAND 5% TO 10% SLOPES	A
TwD	TROUP FIND SAND 10% TO 17% SLOPES	A



INITIAL PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE TYPE 'S' PERIMETER SILT FENCE, CONSTRUCTION EXIT AND SILT CONTROL GATES ON EXISTING PIPES PRIOR TO CLEARING AND GRUBBING.



HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

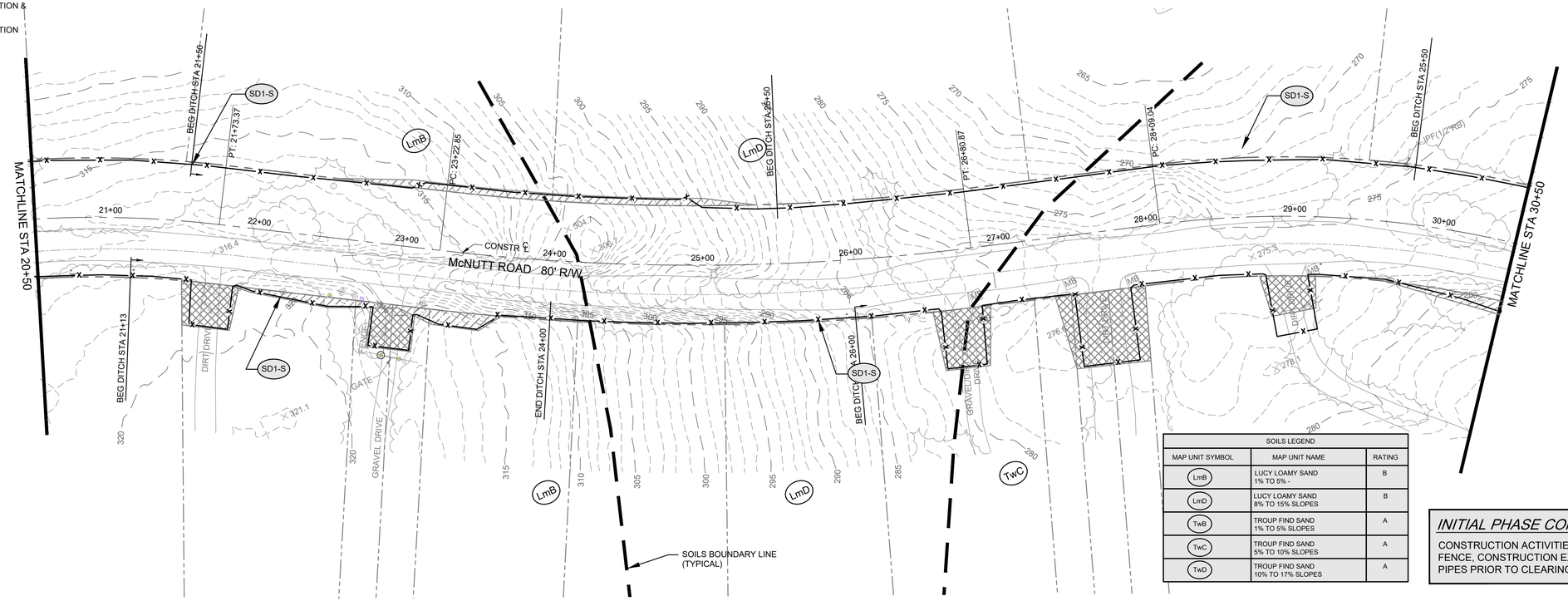
INITIAL PHASE
MCNUTT ROAD
10+50 TO 20+50

DRAWING NUMBER
54-0002

PROJECT: —

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

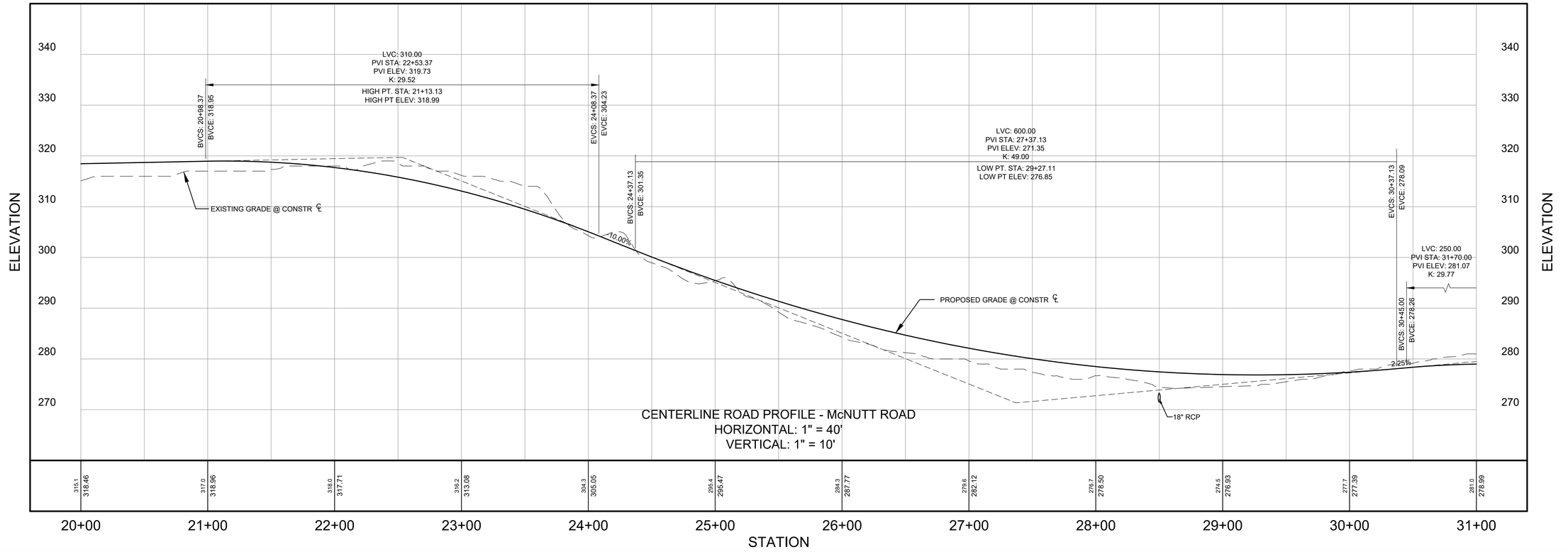
EASEMENT FOR CONSTRUCTION OF DRIVES



SOILS LEGEND		
MAP UNIT SYMBOL	MAP UNIT NAME	RATING
LmB	LUCY LOAMY SAND 1% TO 5% -	B
LmD	LUCY LOAMY SAND 8% TO 15% SLOPES	B
TwB	TROUP FIND SAND 1% TO 5% SLOPES	A
TwC	TROUP FIND SAND 5% TO 10% SLOPES	A
TwD	TROUP FIND SAND 10% TO 17% SLOPES	A

INITIAL PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE TYPE 'S' PERIMETER SILT FENCE, CONSTRUCTION EXIT AND SILT CONTROL GATES ON EXISTING PIPES PRIOR TO CLEARING AND GRUBBING.



CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

MORELAND ALTOBELLI — AN ATLAS COMPANY —

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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta Georgia

McNUTT ROAD
ROAD CONSTRUCTION PLANS

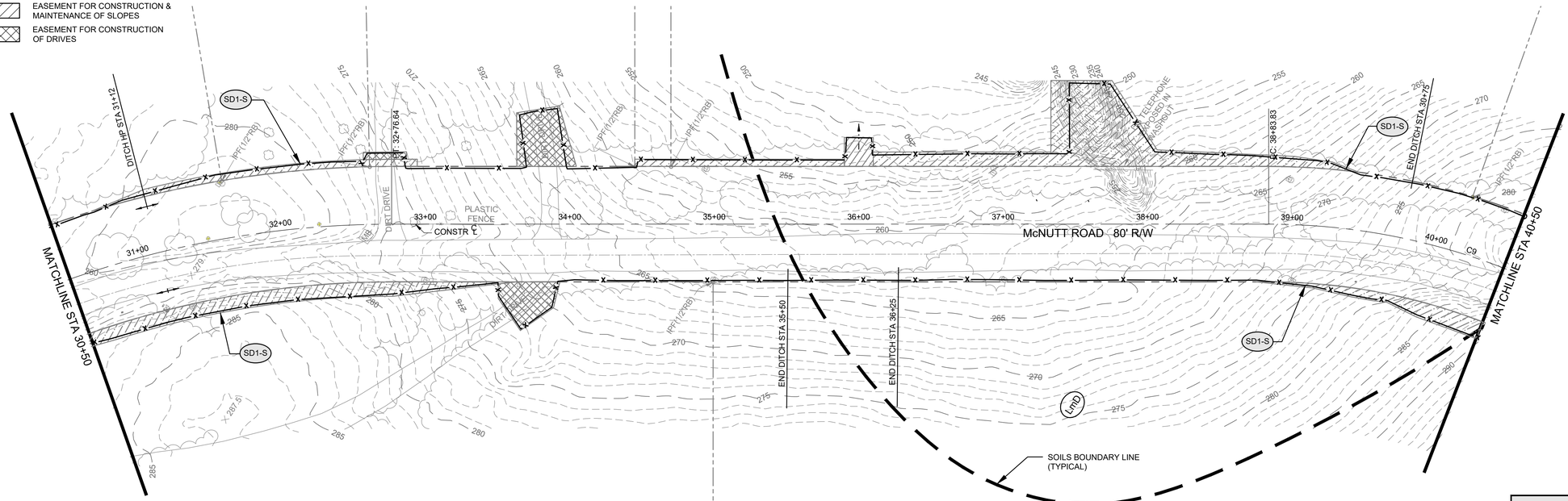
REVISION DATES

BMP LOCATION DETAILS

INITIAL PHASE
MCNUTT ROAD
20+50 TO 30+50

DRAWING NUMBER

54-0003



▨ EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

▩ EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT:	—

SOILS LEGEND		
MAP UNIT SYMBOL	MAP UNIT NAME	RATING
LmB	LUCY LOAMY SAND 1% TO 5% -	B
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TwD	TROUP FIND SAND 10% TO 17% SLOPES	A

INITIAL PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE TYPE 'S' PERIMETER SILT FENCE, CONSTRUCTION EXIT AND SILT CONTROL GATES ON EXISTING PIPES PRIOR TO CLEARING AND GRUBBING.

CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

HORIZONTAL SCALE: 1" = 40'
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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INITIAL PHASE
MCNUTT ROAD
30+50 TO 40+50

DRAWING NUMBER
54-0004

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: —

SOILS LEGEND		
MAP UNIT SYMBOL	MAP UNIT NAME	RATING
LmB	LUCY LOAMY SAND 1% TO 5% -	B
LmD	LUCY LOAMY SAND 8% TO 15% SLOPES	B
TwB	TROUP FIND SAND 1% TO 5% SLOPES	A
TwC	TROUP FIND SAND 5% TO 10% SLOPES	A
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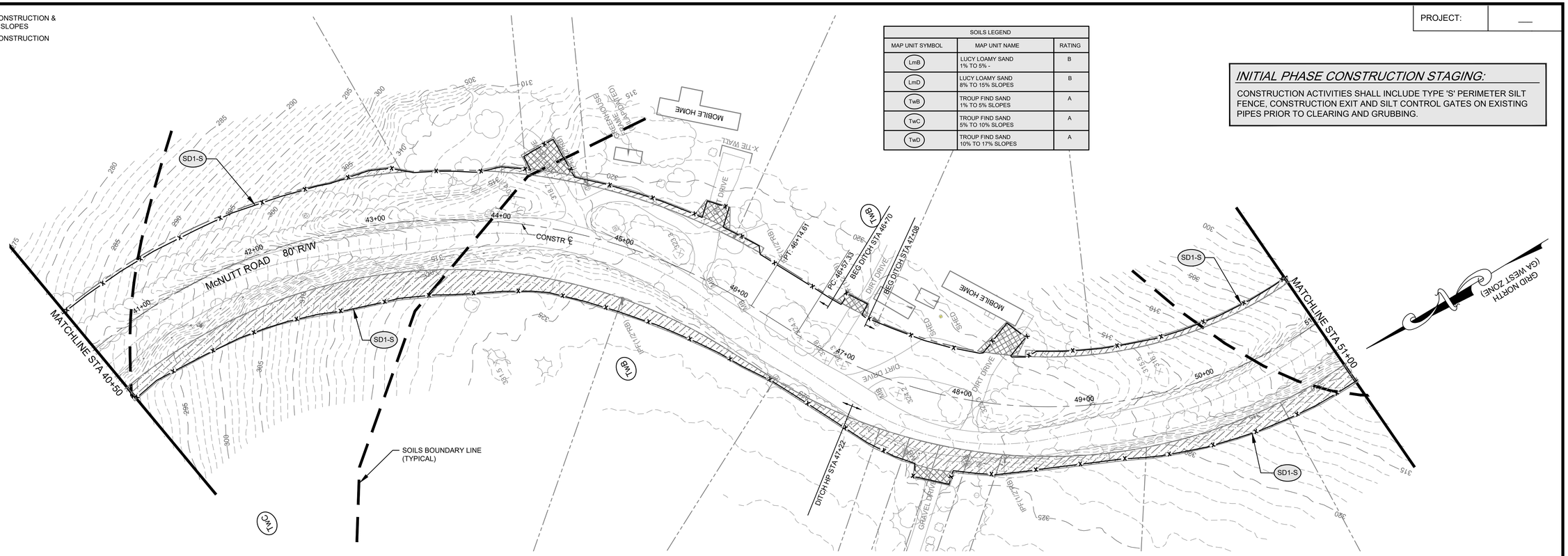
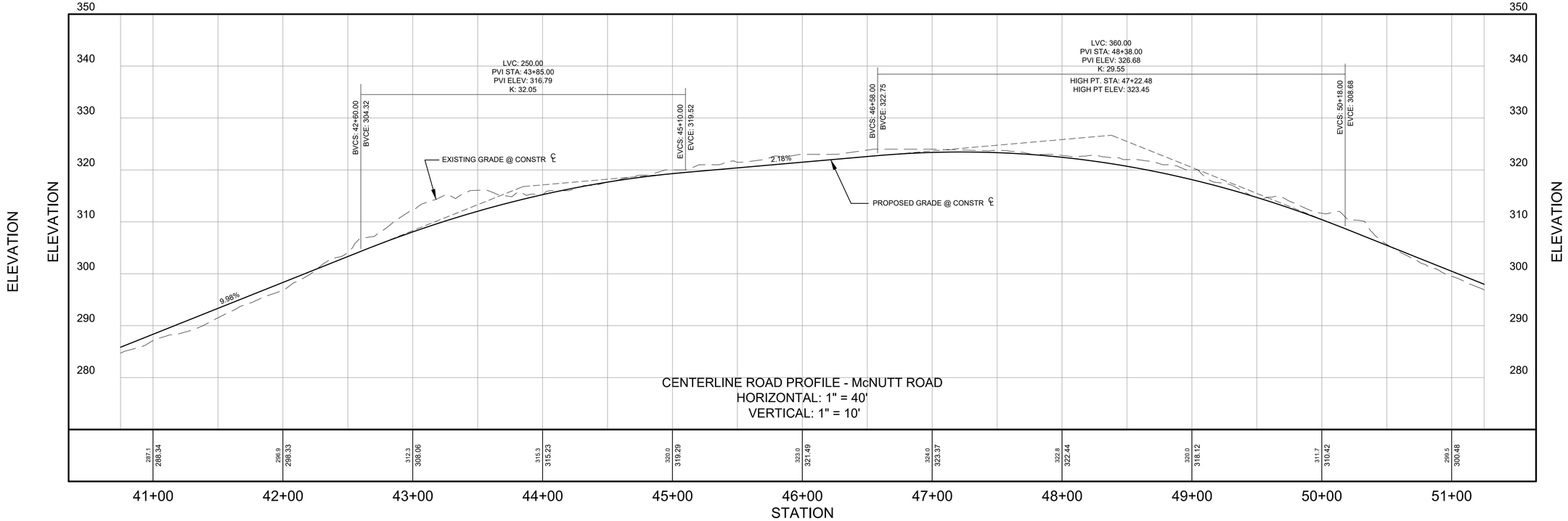
INITIAL PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE TYPE 'S' PERIMETER SILT FENCE, CONSTRUCTION EXIT AND SILT CONTROL GATES ON EXISTING PIPES PRIOR TO CLEARING AND GRUBBING.





HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

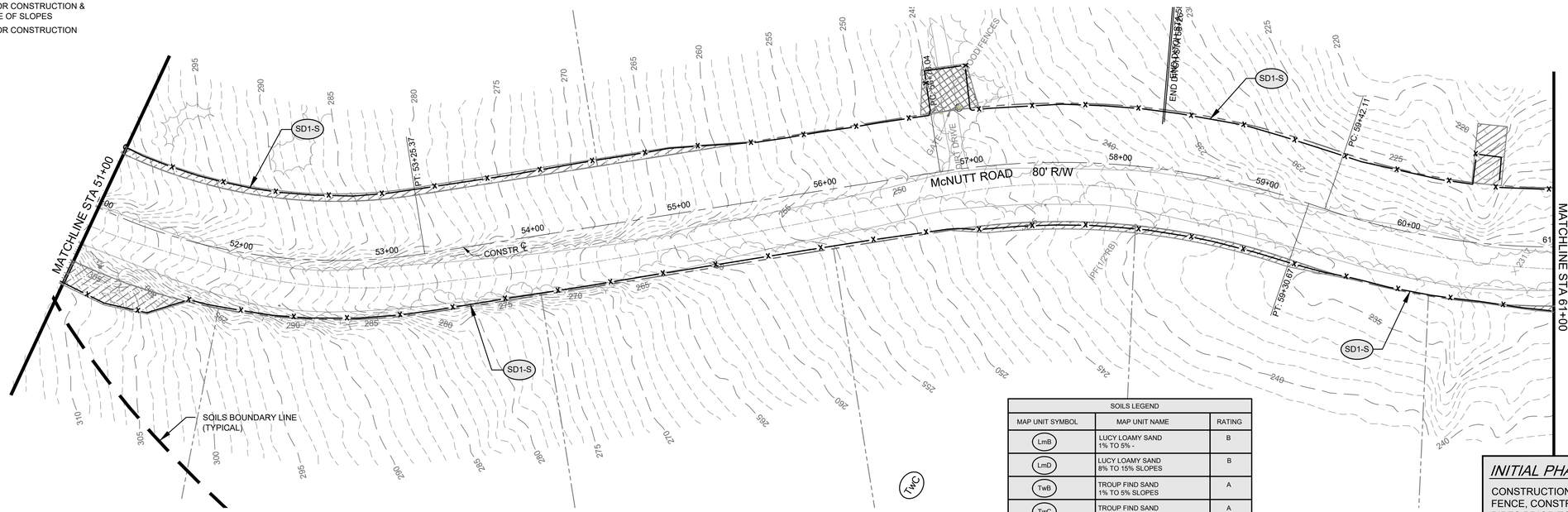
INITIAL PHASE
MCNUTT ROAD
40+50 TO 51+00

DRAWING NUMBER
54-0005

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: —



SOILS LEGEND		
MAP UNIT SYMBOL	MAP UNIT NAME	RATING
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INITIAL PHASE CONSTRUCTION STAGING:

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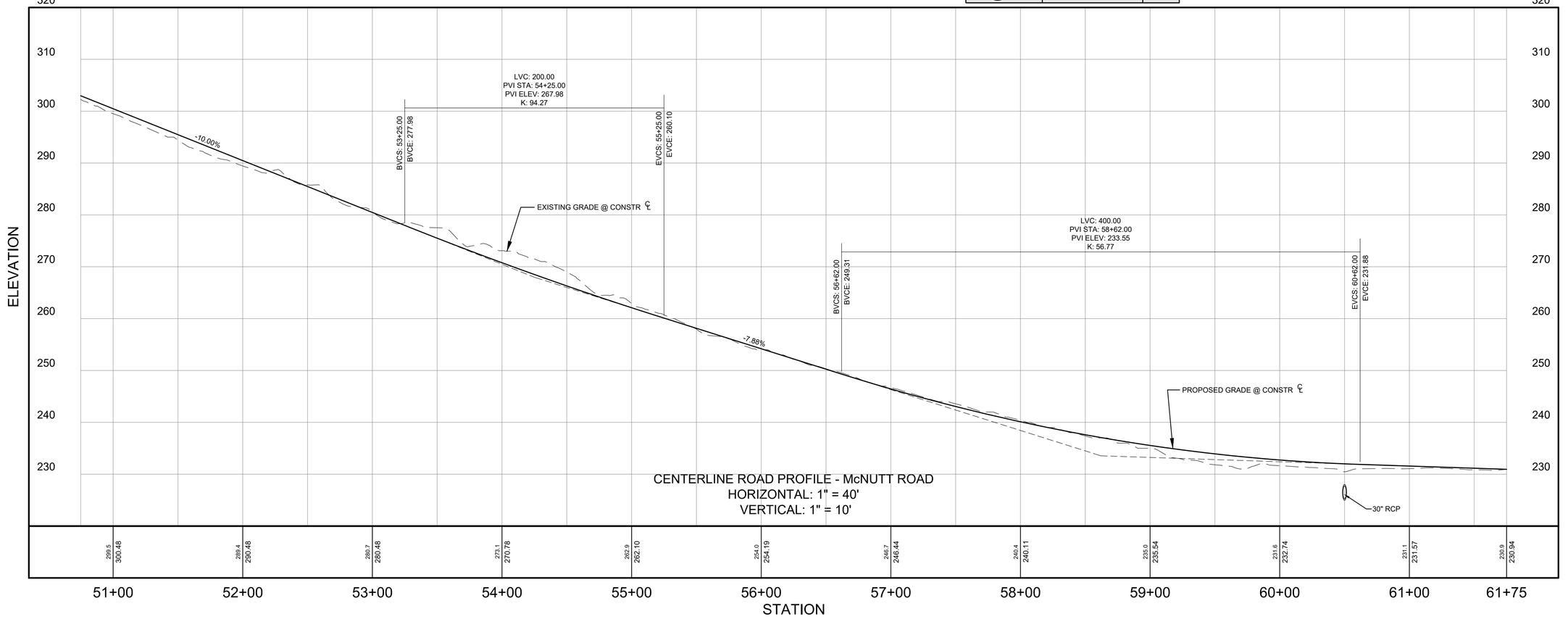

CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOACTION DETAILS

INITIAL PHASE
MCNUTT ROAD
51+00 TO 61+00

DRAWING NUMBER

54-0006

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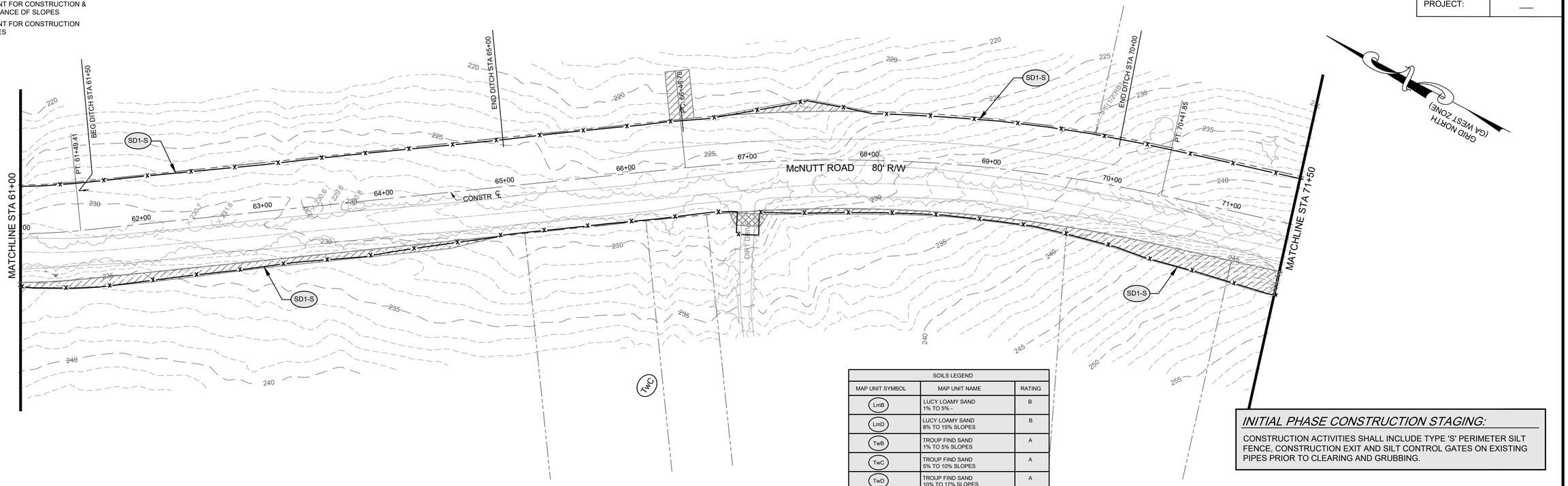
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: —



SOILS LEGEND		
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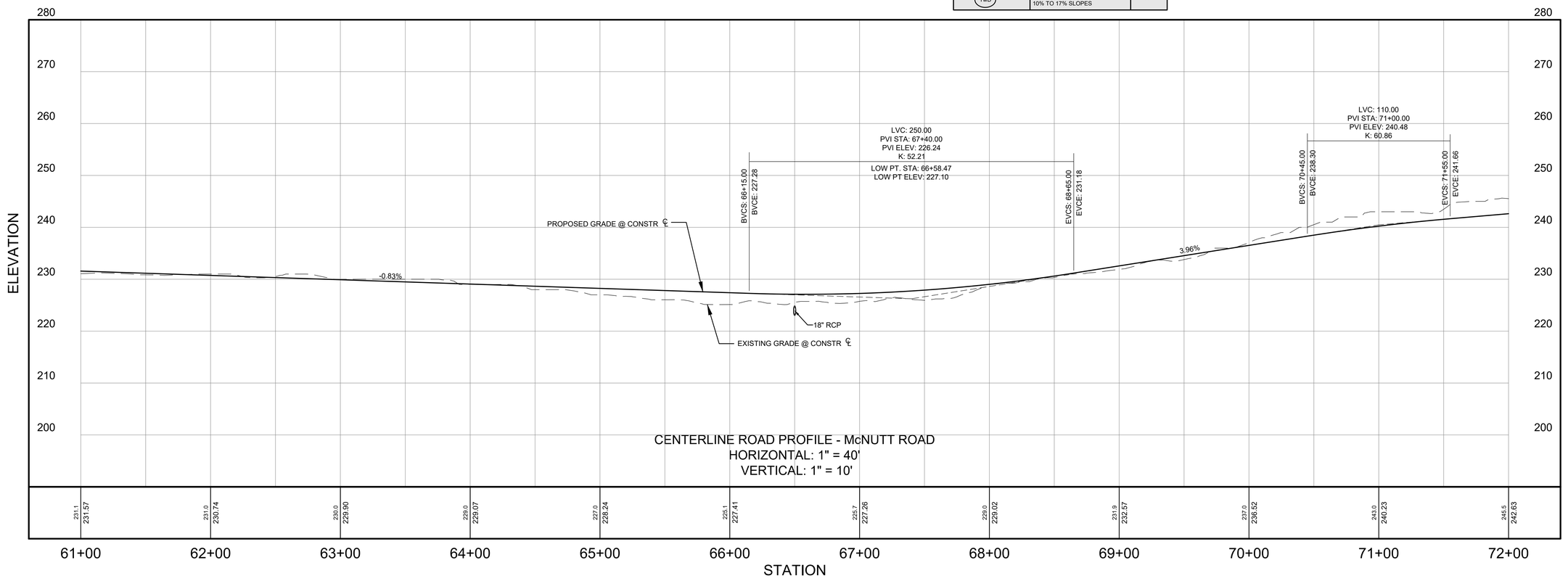

CENTERLINE ROAD PROFILE - McNUTT ROAD
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VERTICAL: 1" = 10'

GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INITIAL PHASE
MCNUTT ROAD
61+00 TO 71+50

DRAWING NUMBER
54-0007

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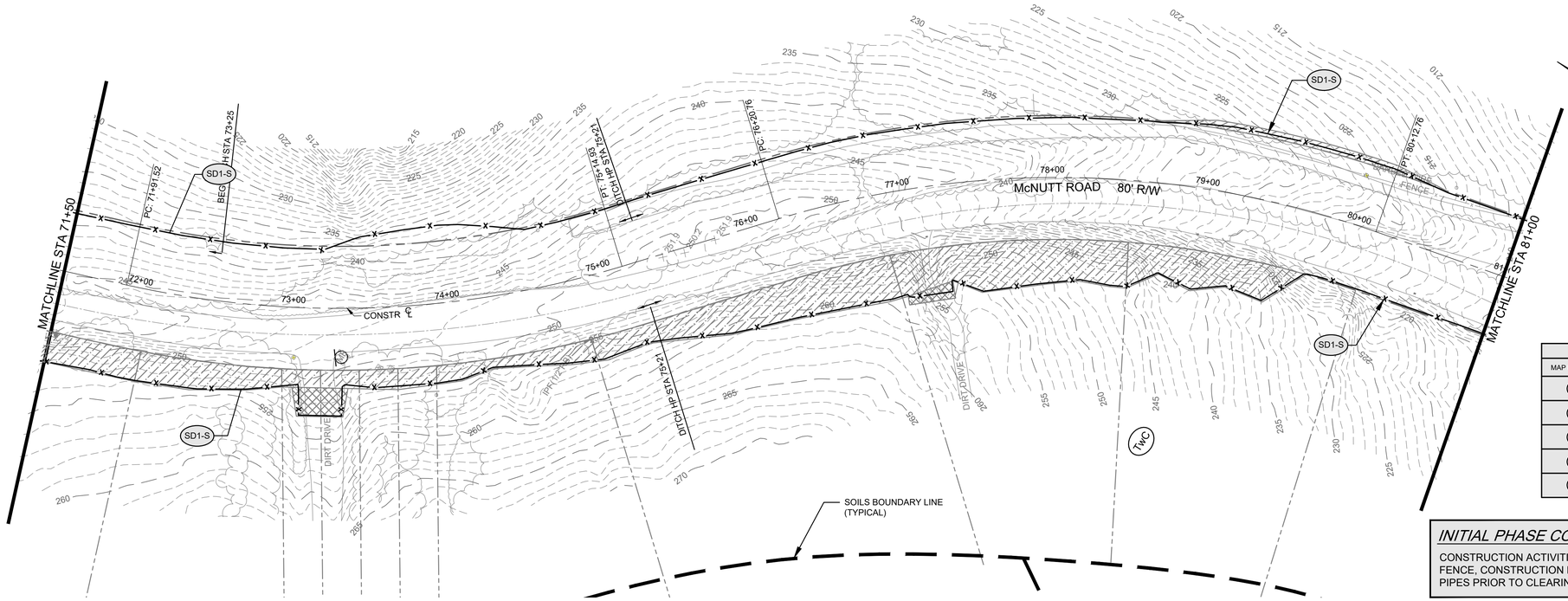
PROJECT: —

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

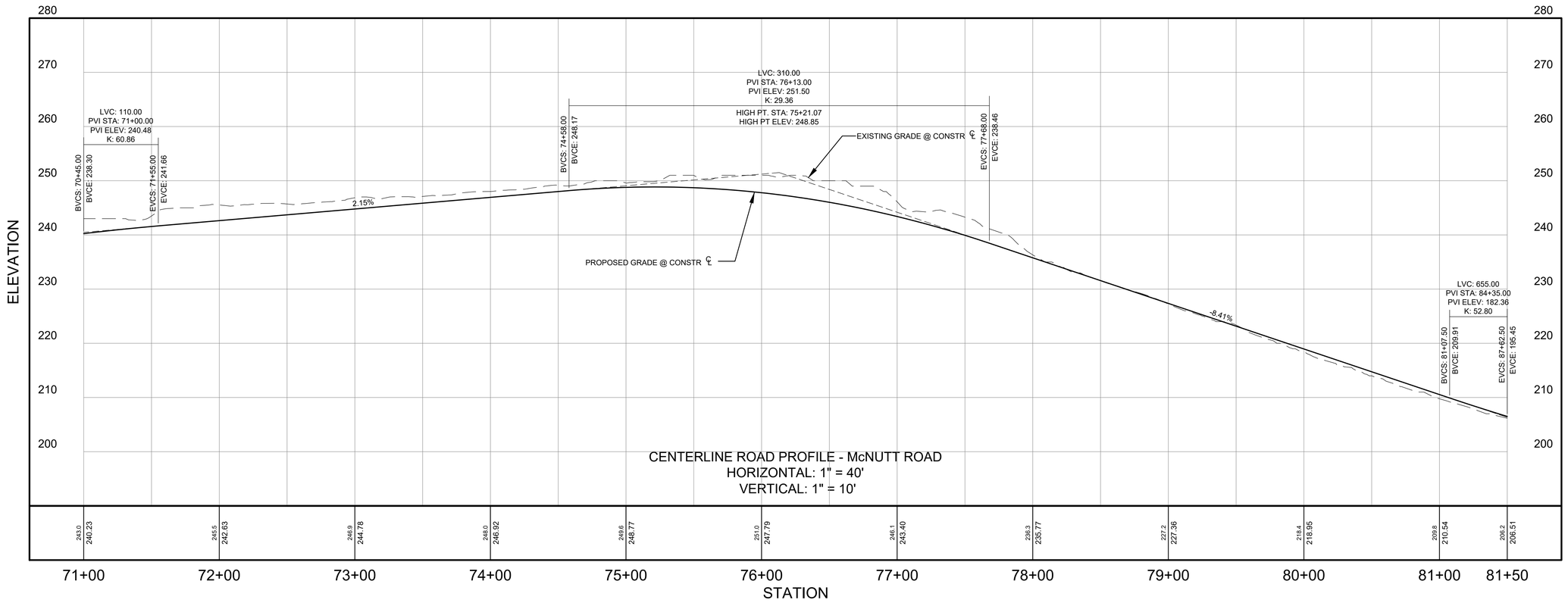
EASEMENT FOR CONSTRUCTION OF DRIVES



SOILS LEGEND		
MAP UNIT SYMBOL	MAP UNIT NAME	RATING
LmB	LUCY LOAMY SAND 1% TO 5% -	B
LmD	LUCY LOAMY SAND 8% TO 15% SLOPES	B
TwB	TROUP FIND SAND 1% TO 5% SLOPES	A
TwC	TROUP FIND SAND 5% TO 10% SLOPES	A
TwD	TROUP FIND SAND 10% TO 17% SLOPES	A

INITIAL PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE TYPE 'S' PERIMETER SILT FENCE, CONSTRUCTION EXIT AND SILT CONTROL GATES ON EXISTING PIPES PRIOR TO CLEARING AND GRUBBING.



CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

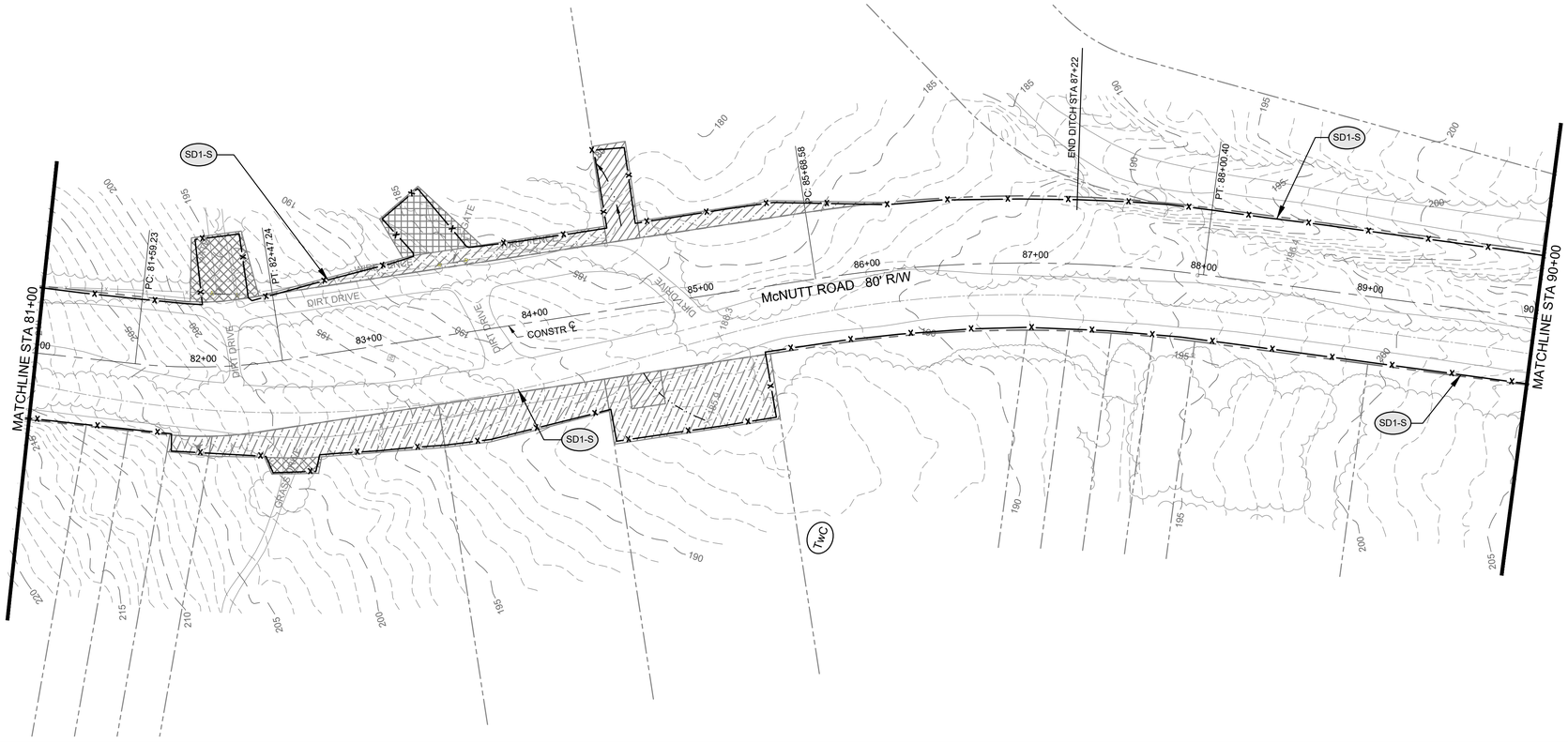
INITIAL PHASE
MCNUTT ROAD
71+50 TO 81+00

DRAWING NUMBER
54-0008

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: —



GRID NORTH (GA WEST ZONE)

SOILS LEGEND		
MAP UNIT SYMBOL	MAP UNIT NAME	RATING
LmB	LUCY LOAMY SAND 1% TO 5% -	B
LmD	LUCY LOAMY SAND 8% TO 15% SLOPES	B
TwB	TROUP FIND SAND 1% TO 5% SLOPES	A
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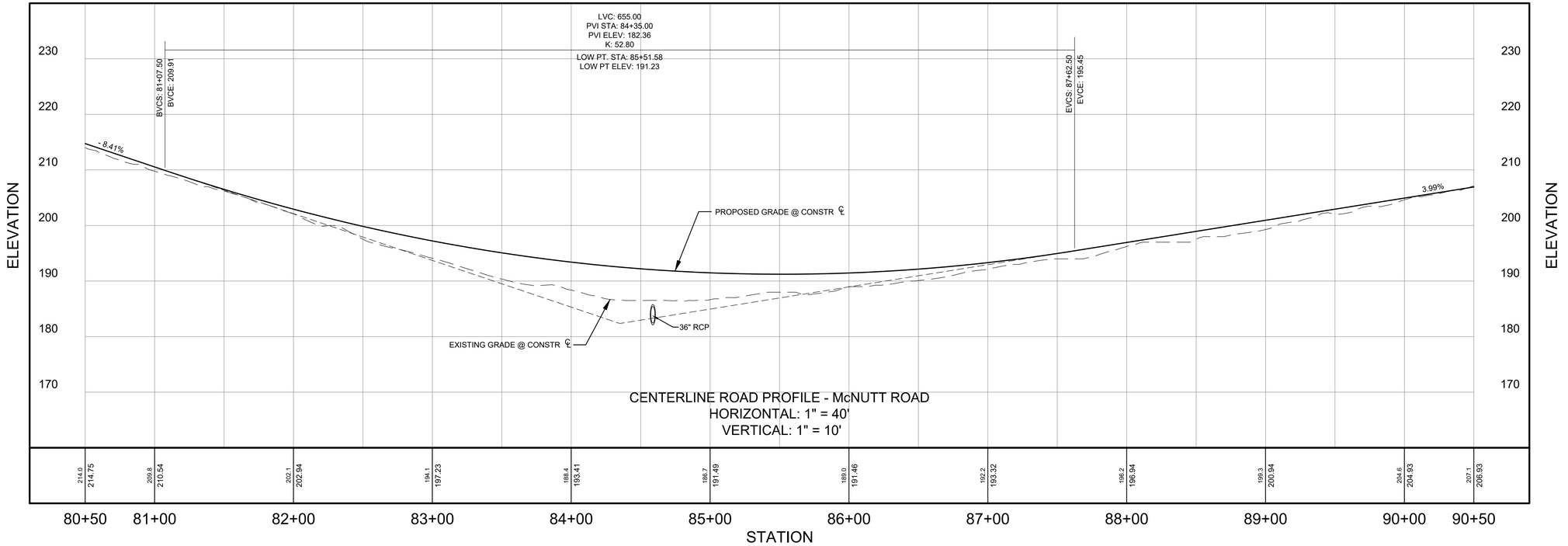

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INITIAL PHASE
MCNUTT ROAD
81+00 TO 90+00

DRAWING NUMBER

54-0009

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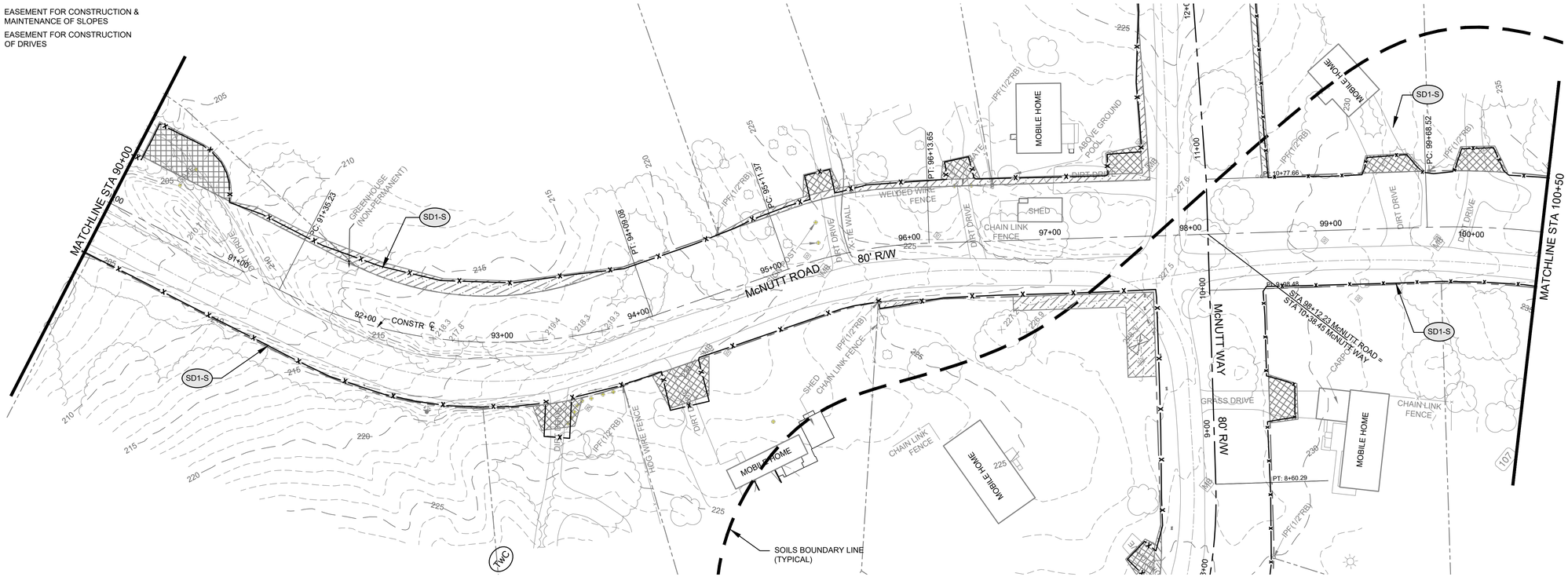
PROJECT: —

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES



SOILS LEGEND		
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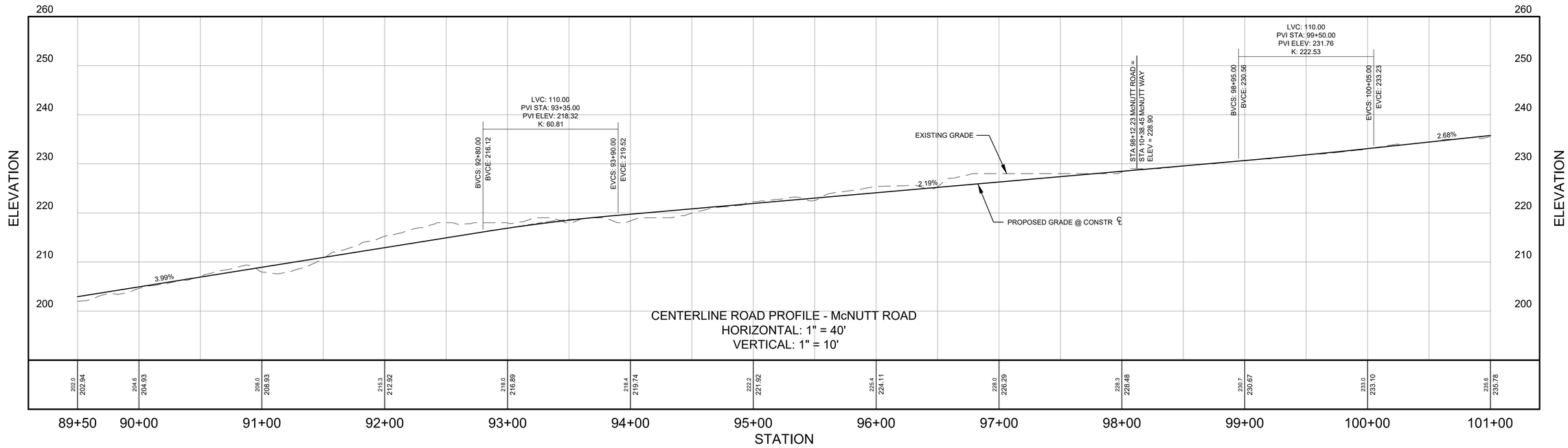

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202.94	204.93	208.93	212.92	216.89	219.74	221.92	224.11	226.29	228.48	230.67	233.10	235.78

89+50 90+00 91+00 92+00 93+00 94+00 95+00 96+00 97+00 98+00 99+00 100+00 101+00

STATION

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INITIAL PHASE
MCNUTT ROAD
90+00 TO 100+50

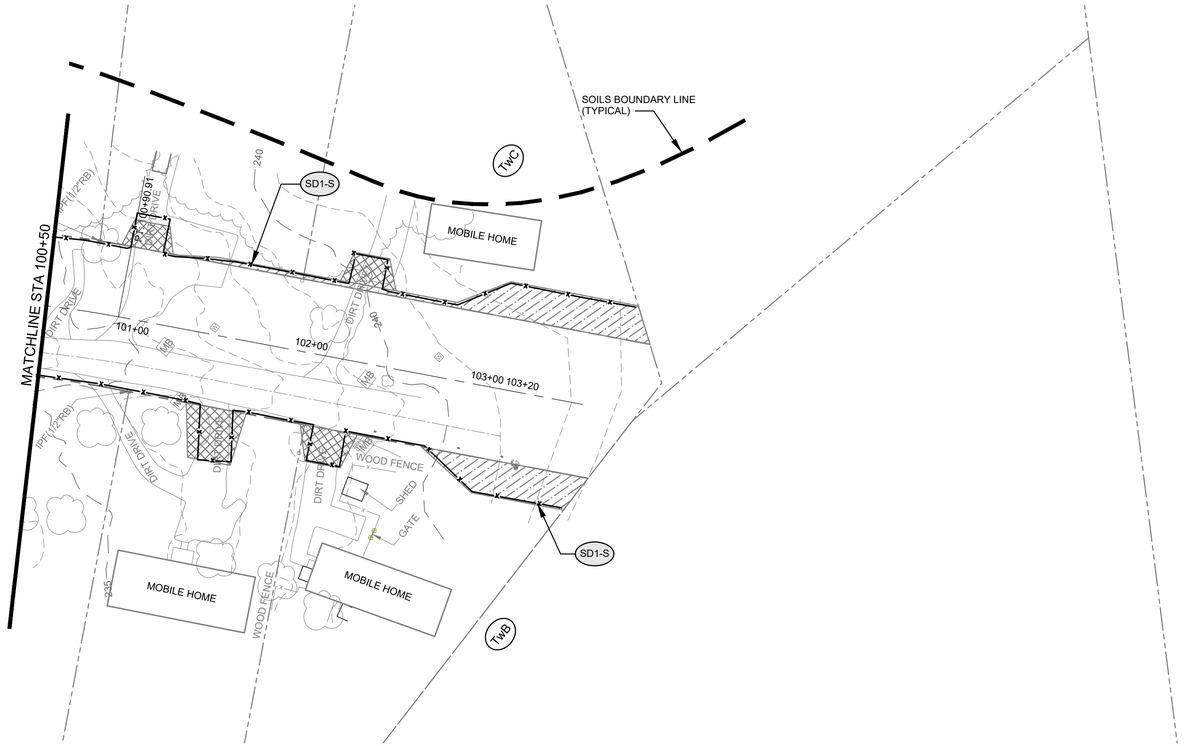
DRAWING NUMBER

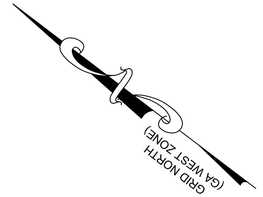
54-0010

PROJECT: —

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES





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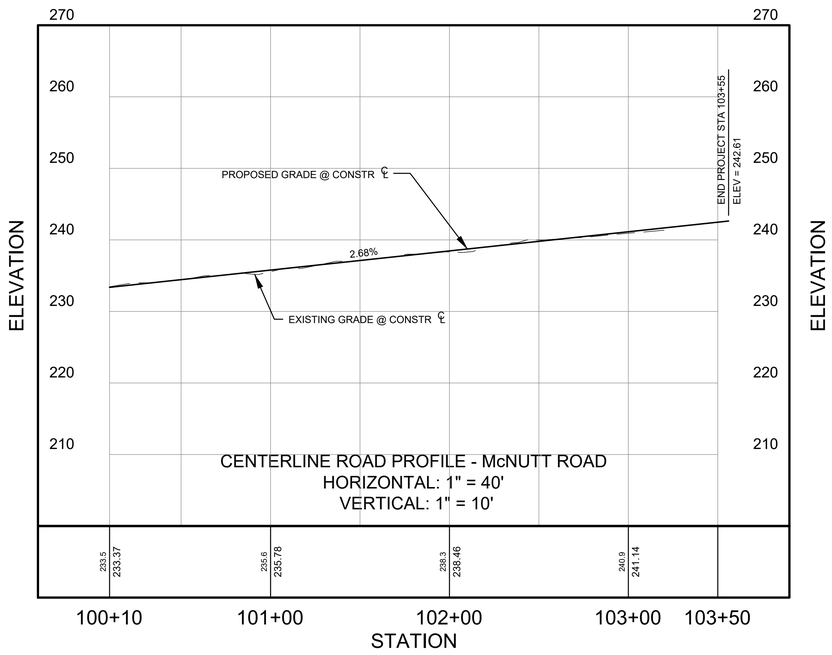

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INITIAL PHASE
MCNUTT ROAD
100+50 TO END

DRAWING NUMBER
54-0011

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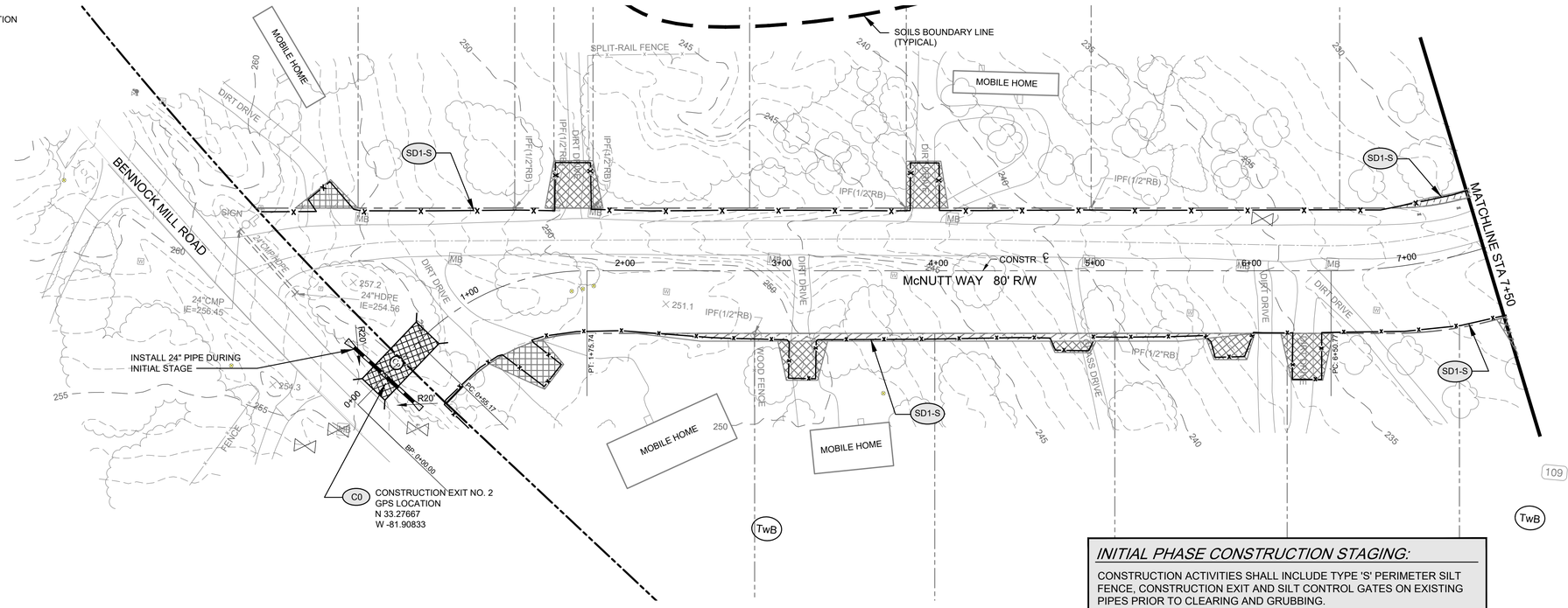
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: —



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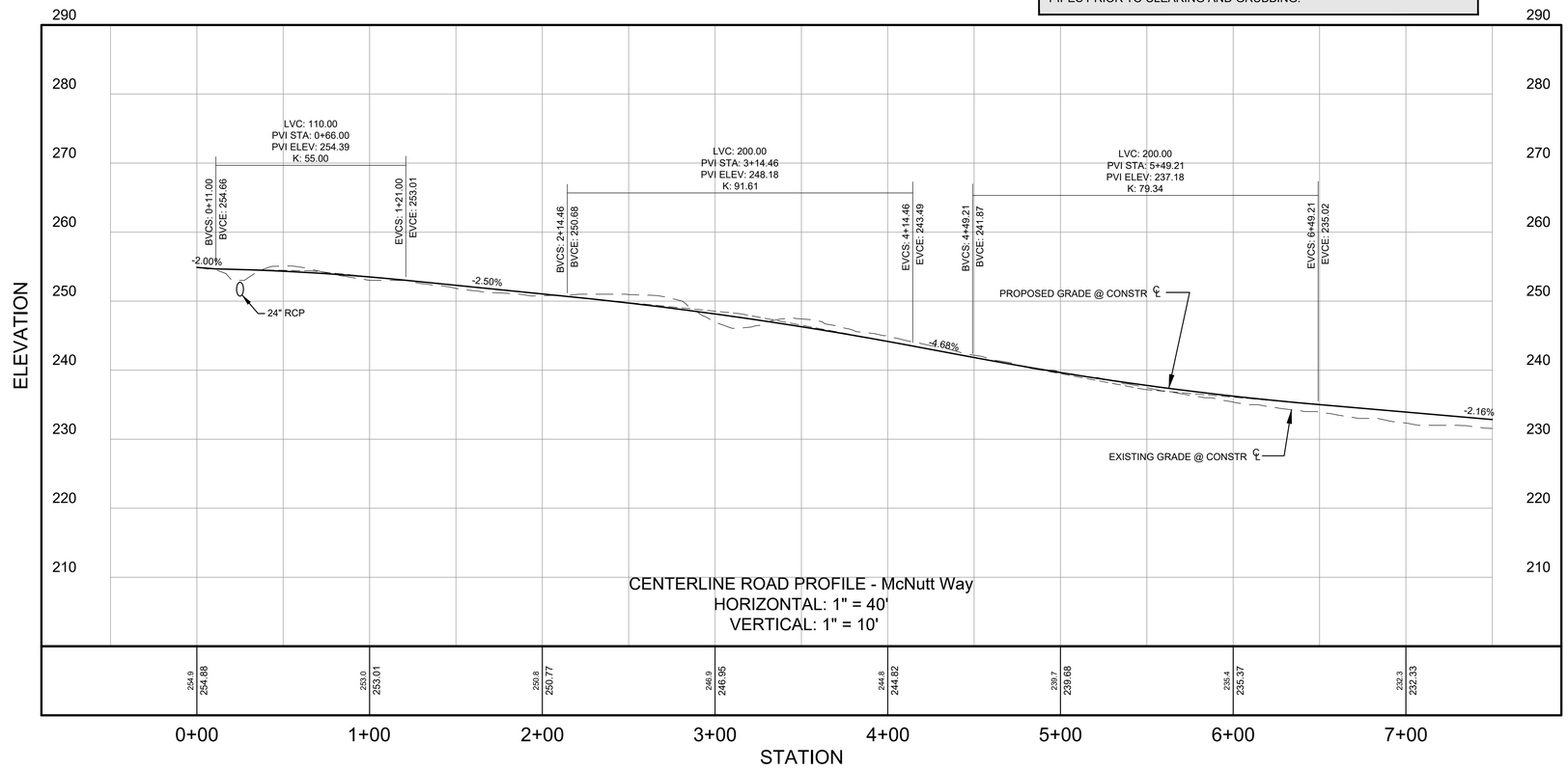

CENTERLINE ROAD PROFILE - McNutt Way
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INITIAL PHASE
MCNUTT WAY
0+00 TO 7+50

DRAWING NUMBER
54-0012

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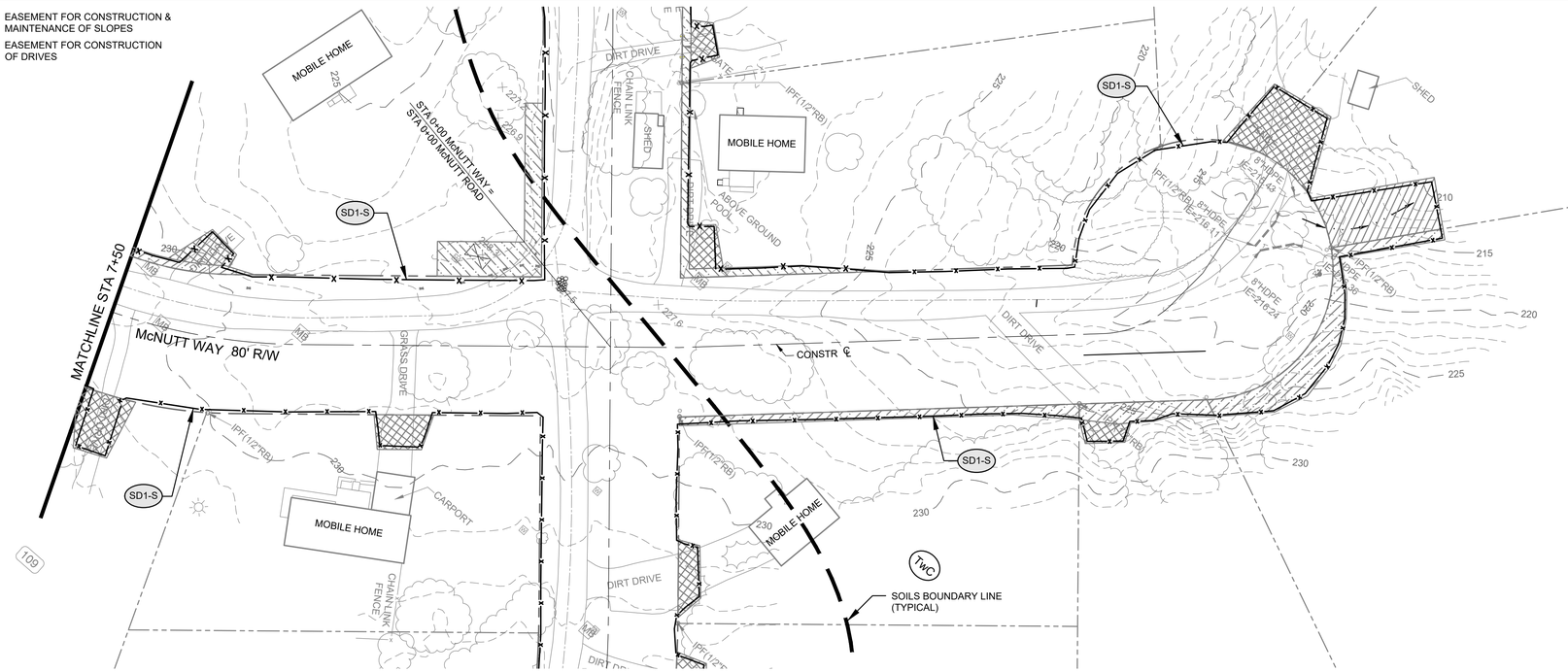
PROJECT: —

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES



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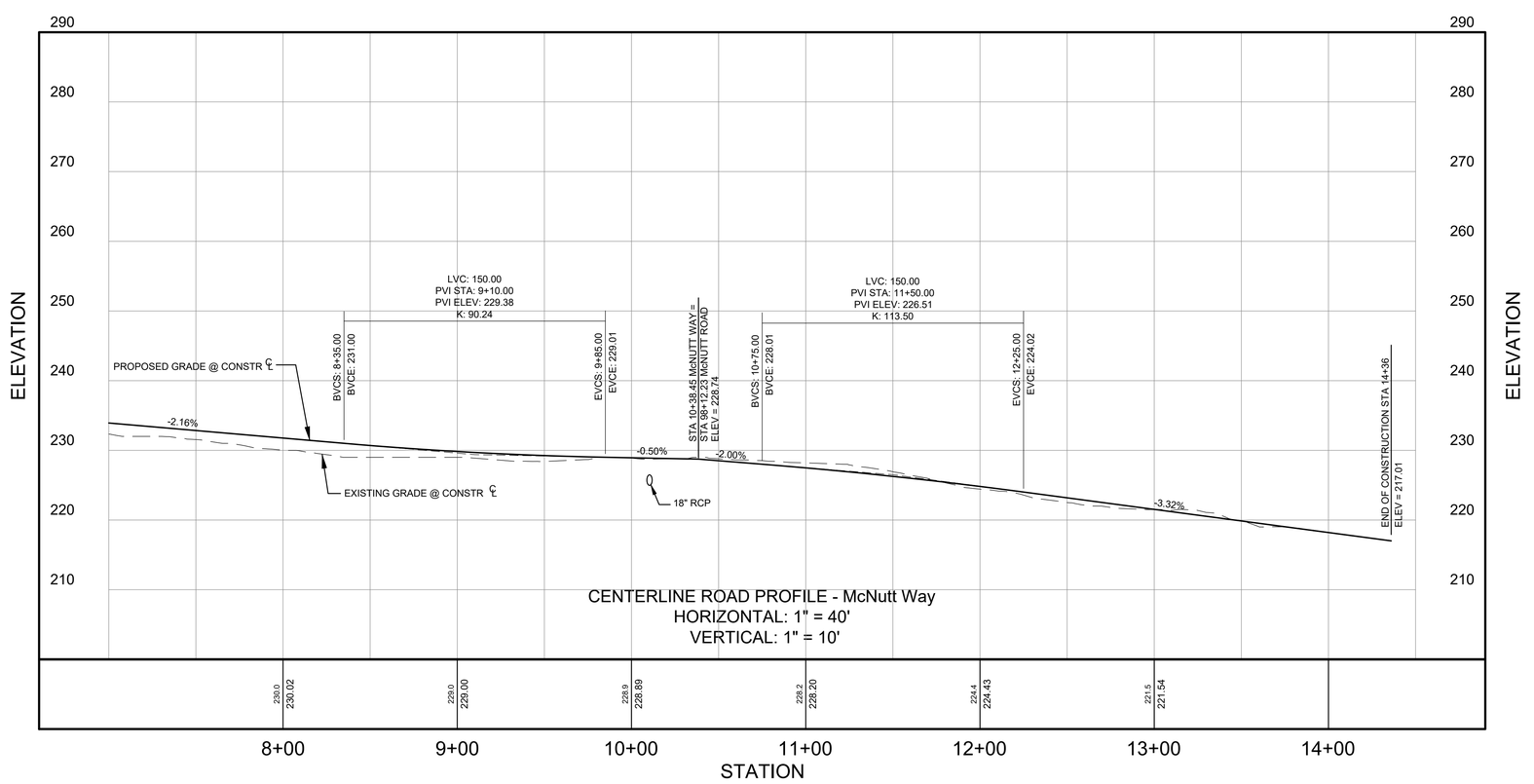

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Augusta GEORGIA

McNUTT ROAD ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INITIAL PHASE
MCNUTT WAY
7+50 TO END

DRAWING NUMBER

54-0013

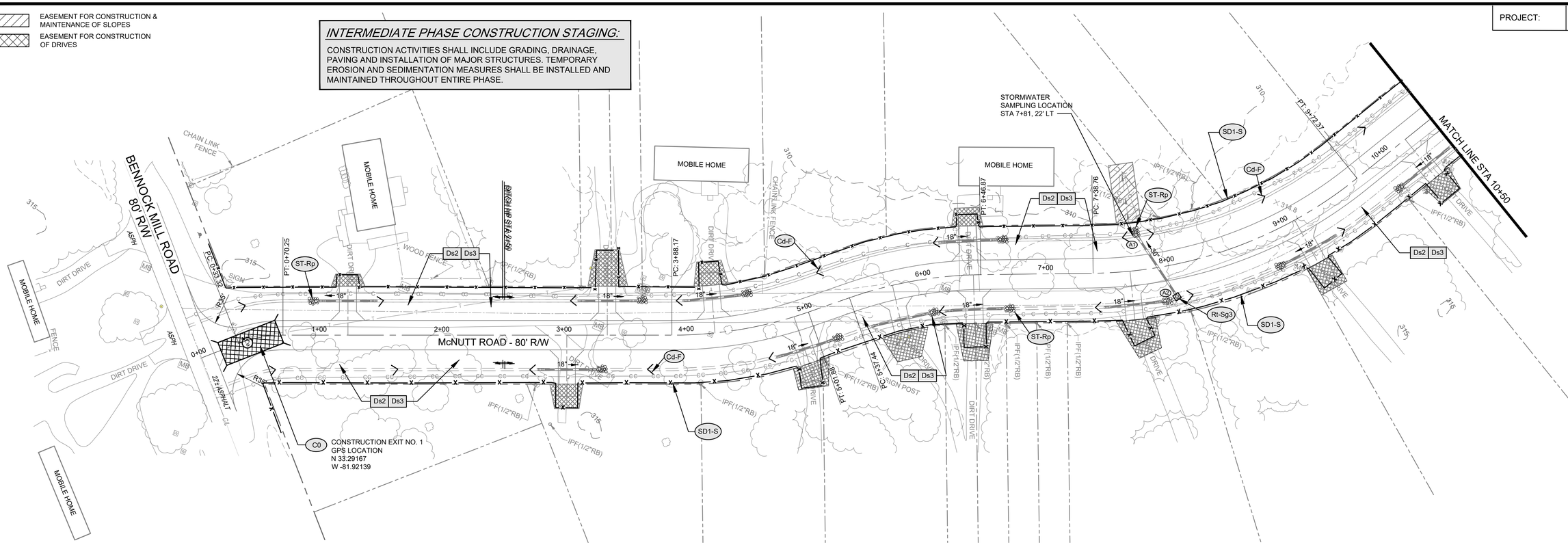
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

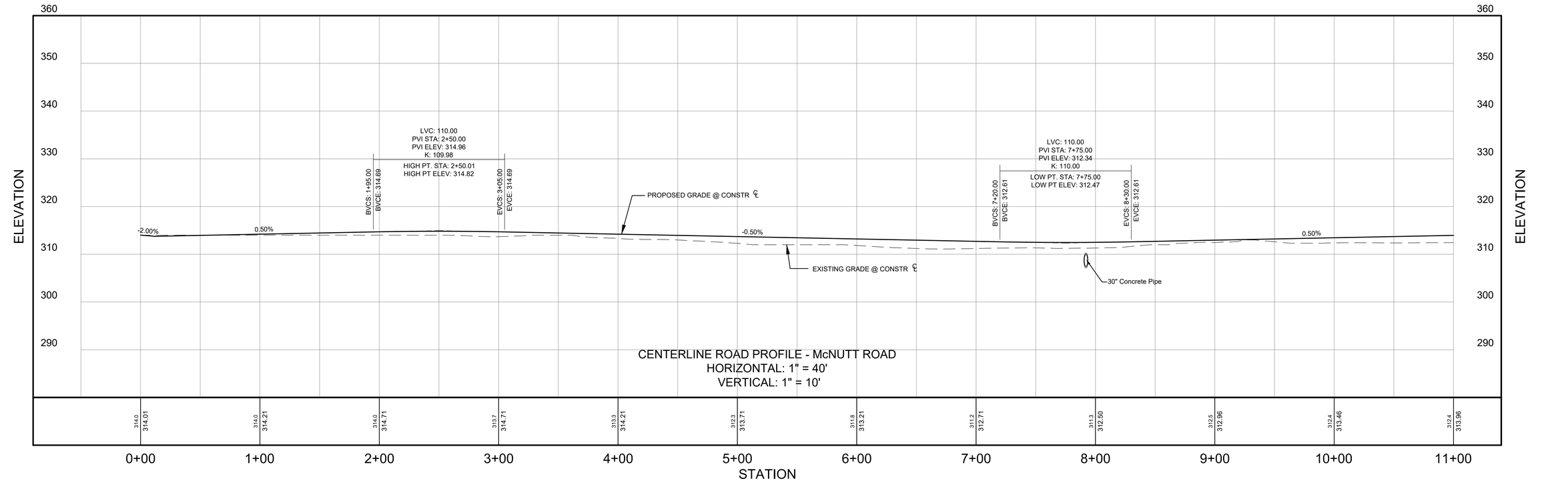
EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: —

INTERMEDIATE PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE GRADING, DRAINAGE, PAVING AND INSTALLATION OF MAJOR STRUCTURES. TEMPORARY EROSION AND SEDIMENTATION MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT ENTIRE PHASE.





HORIZONTAL SCALE: 1" = 40'
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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INTERMEDIATE PHASE
MCNUTT ROAD
0+00 TO 10+50

DRAWING NUMBER

54-0014

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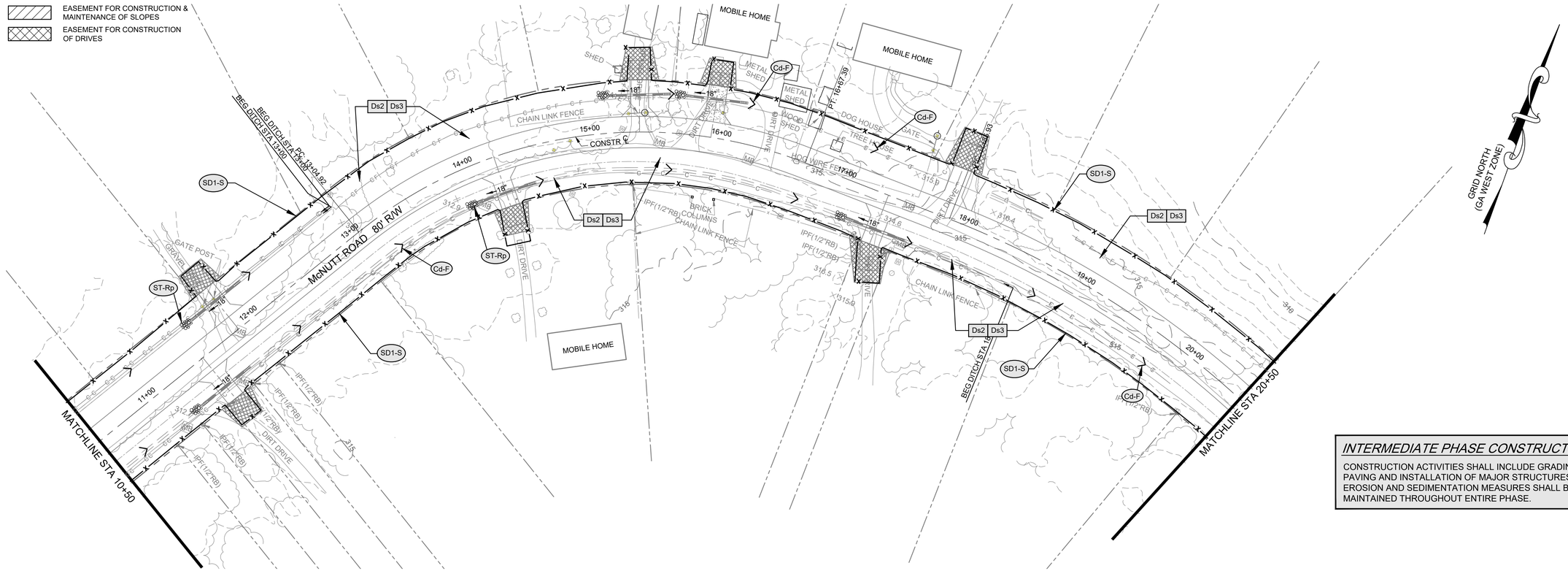
PROJECT:	—

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES



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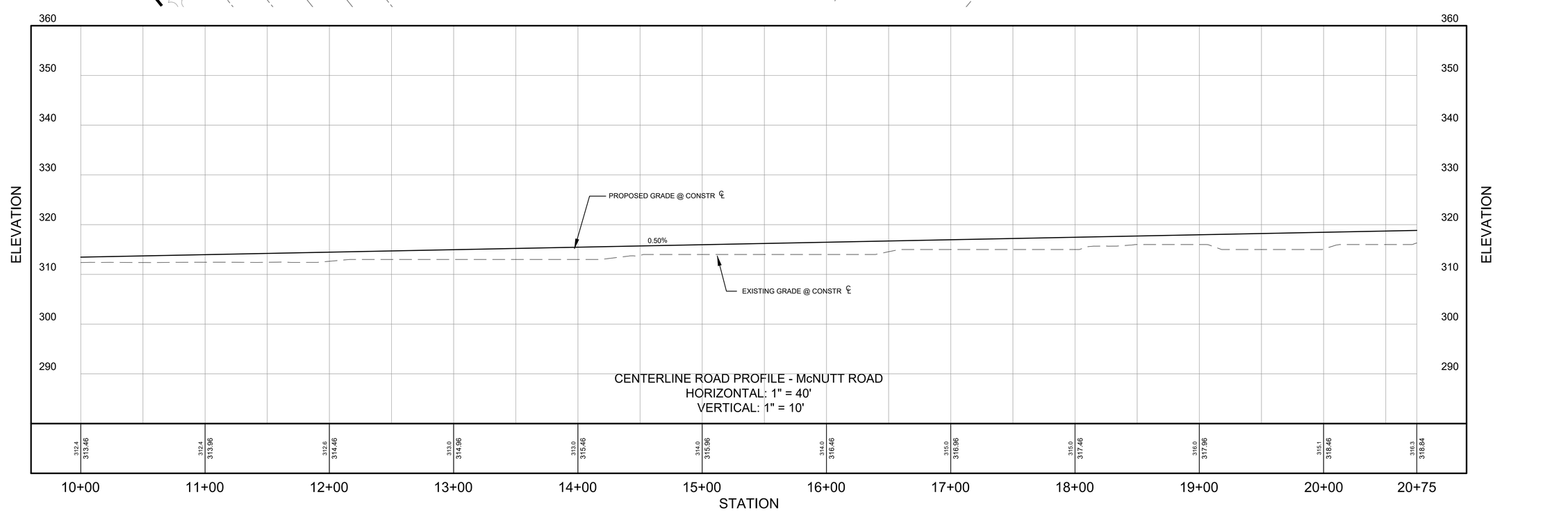

CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INTERMEDIATE PHASE
MCNUTT ROAD
10+50 TO 20+50

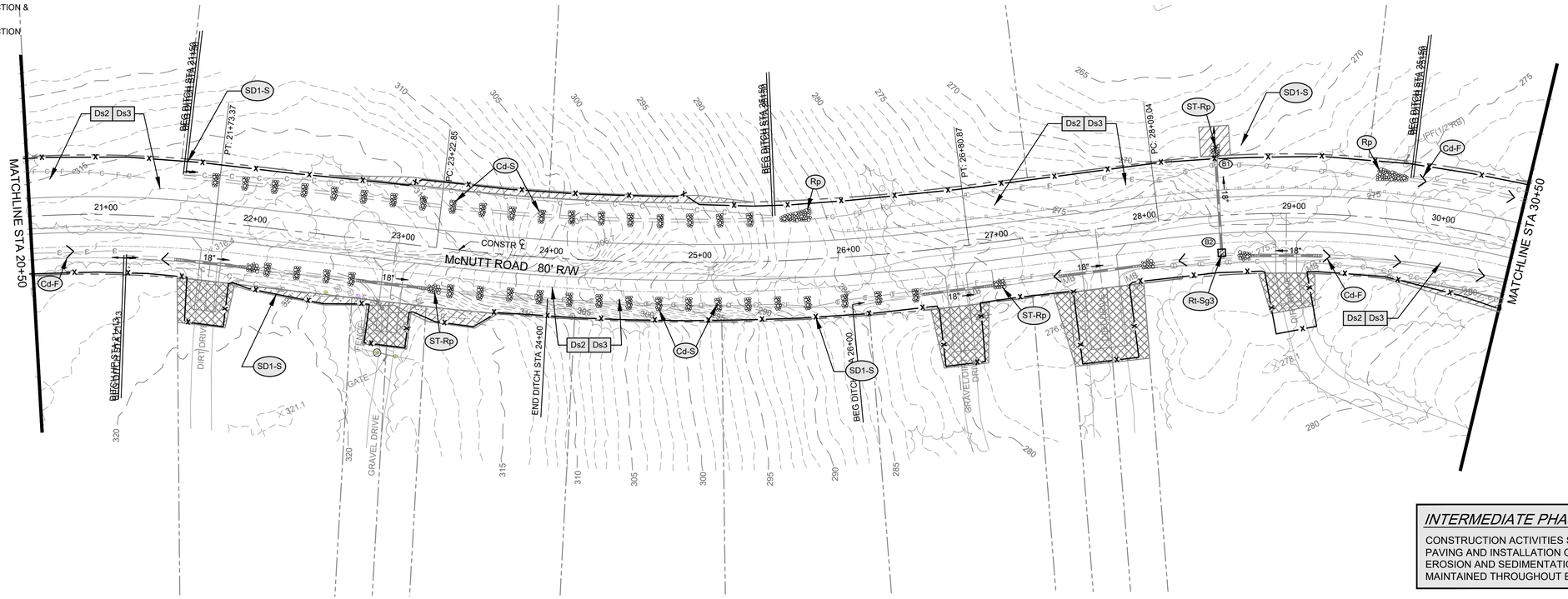
DRAWING NUMBER

54-0015

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: —



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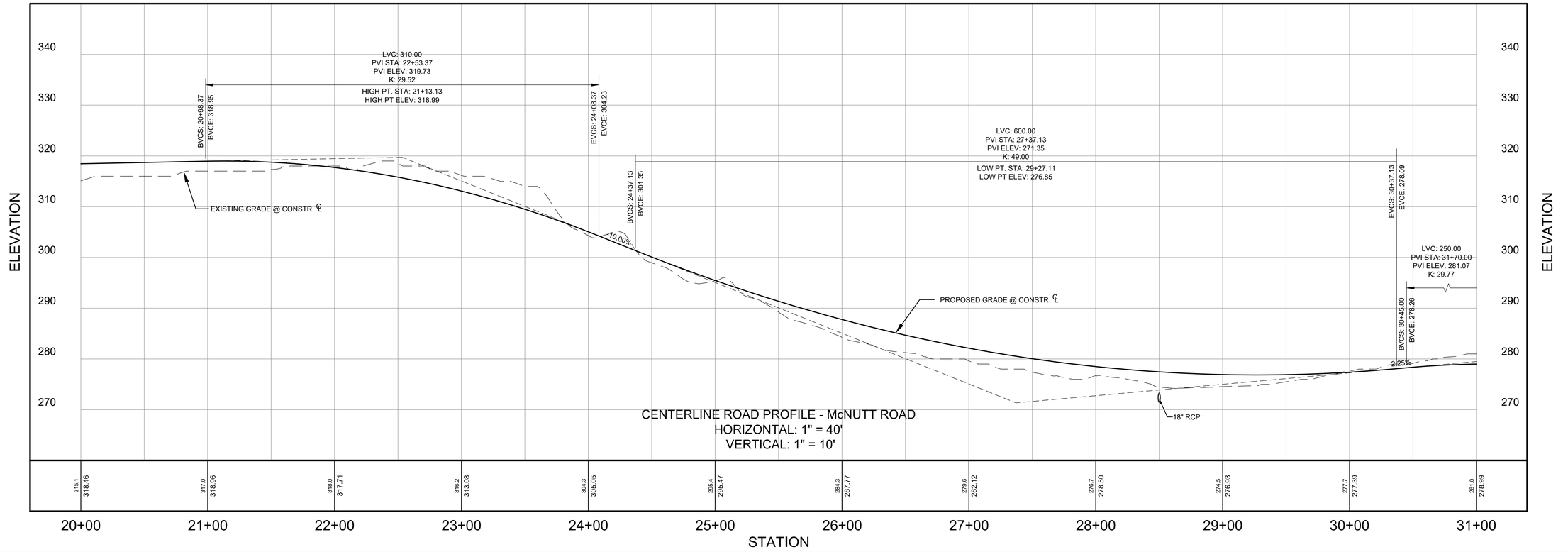

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Augusta Georgia

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INTERMEDIATE PHASE
MCNUTT ROAD
20+50 TO 30+50

DRAWING NUMBER
54-0016

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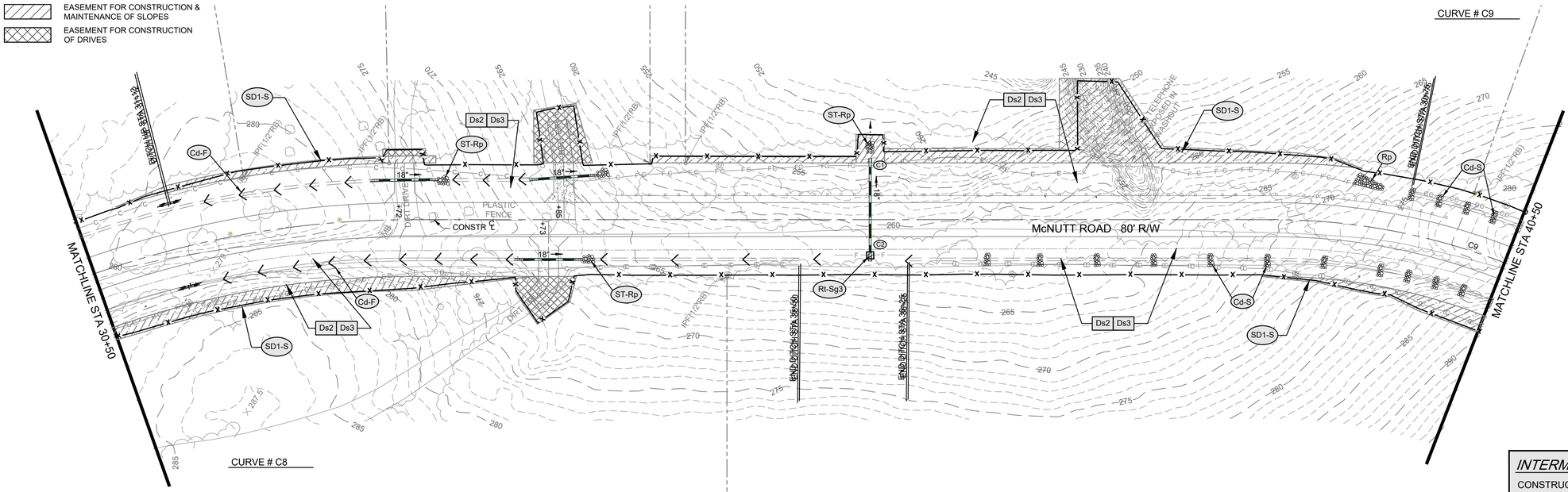
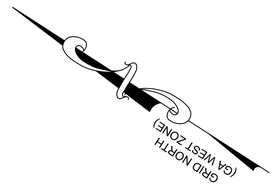
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: —





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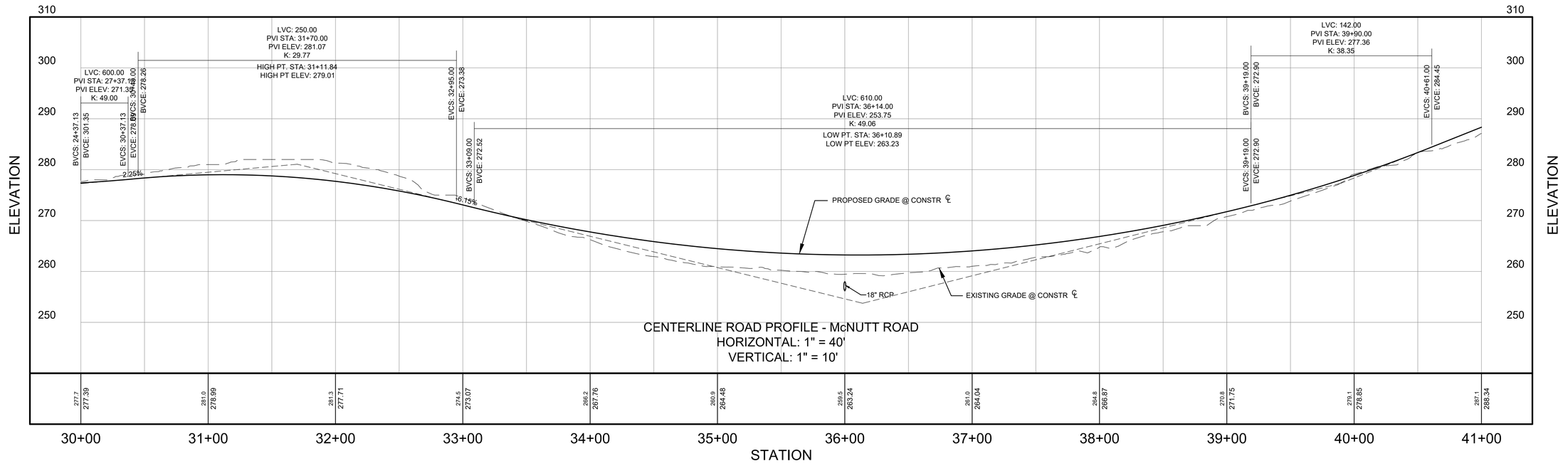

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INTERMEDIATE PHASE

MCNUTT ROAD
30+50 TO 40+50

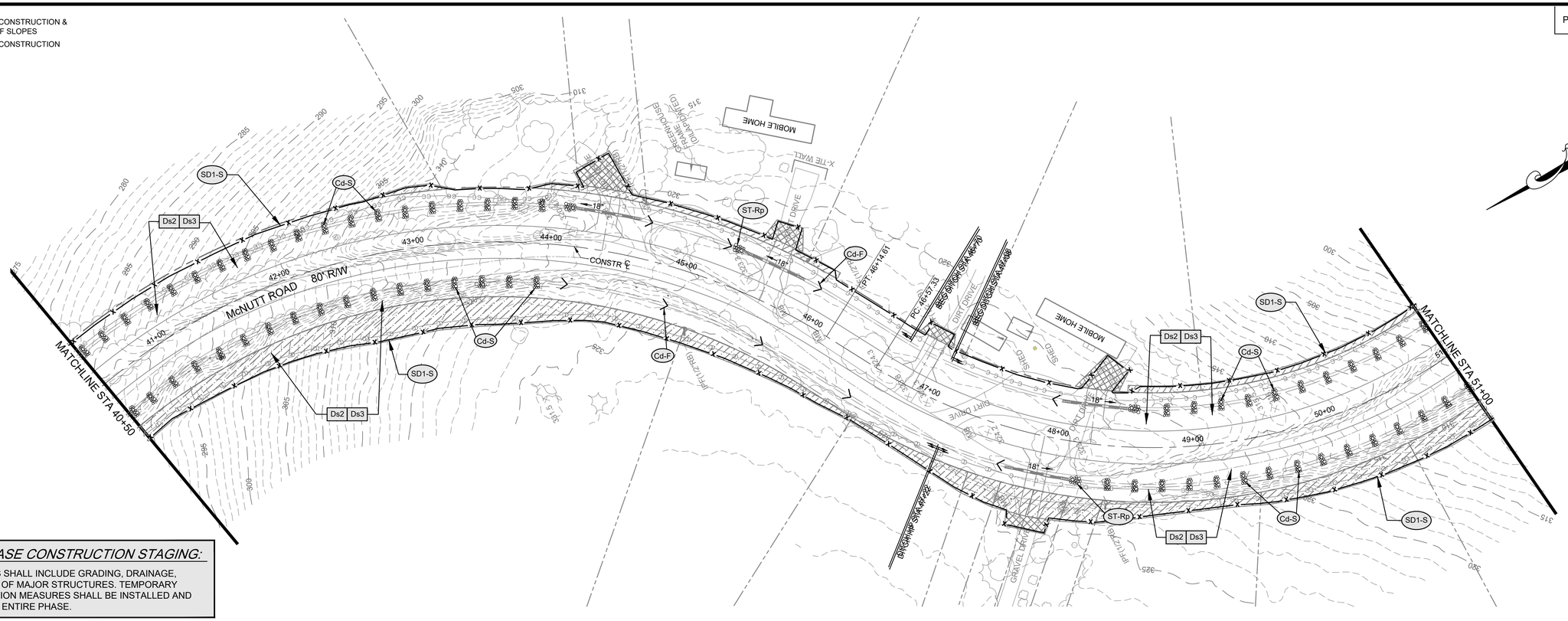
DRAWING NUMBER

54-0017

PROJECT: —

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES



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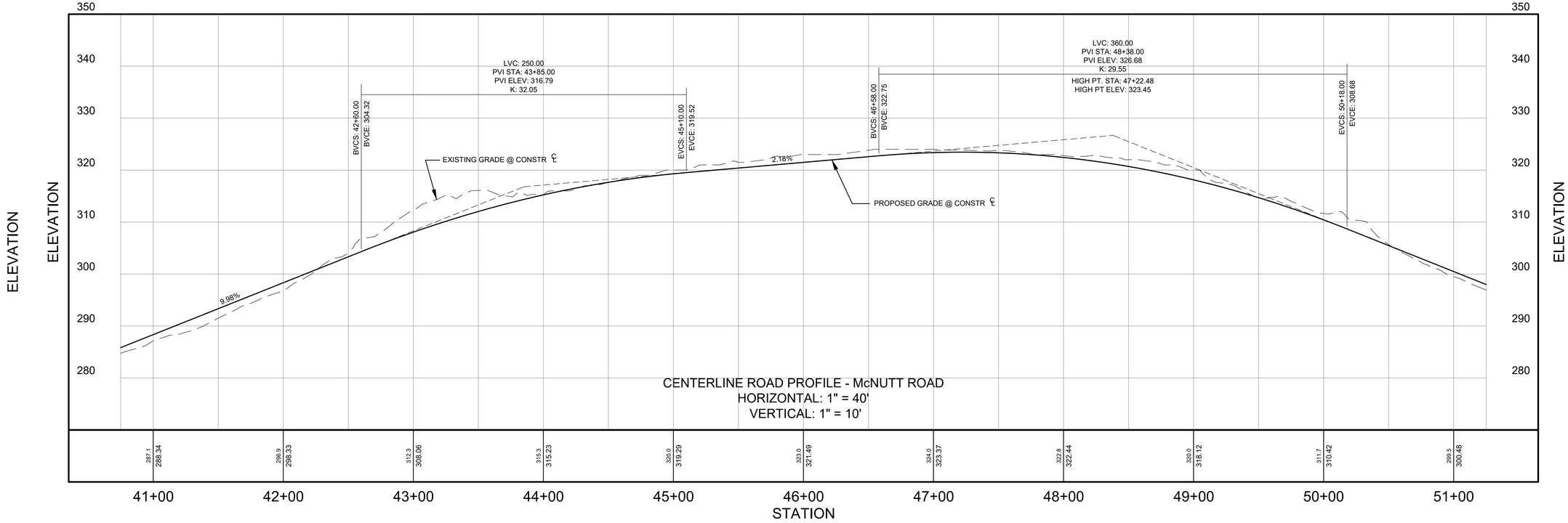

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Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INTERMEDIATE PHASE
MCNUTT ROAD
40+50 TO 51+00

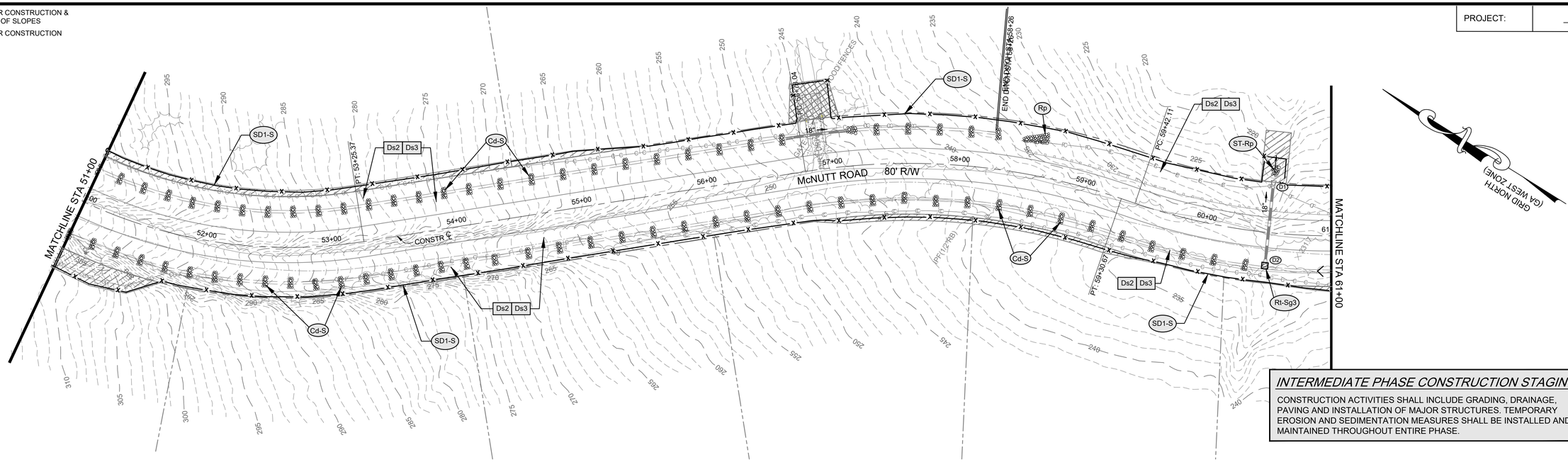
DRAWING NUMBER
54-0018

D:\Data\Projects\McNutt Road\Design\McNutt Road Erosion Control (10-2-19).dwg, 5/27/2021 4:09:39 PM

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

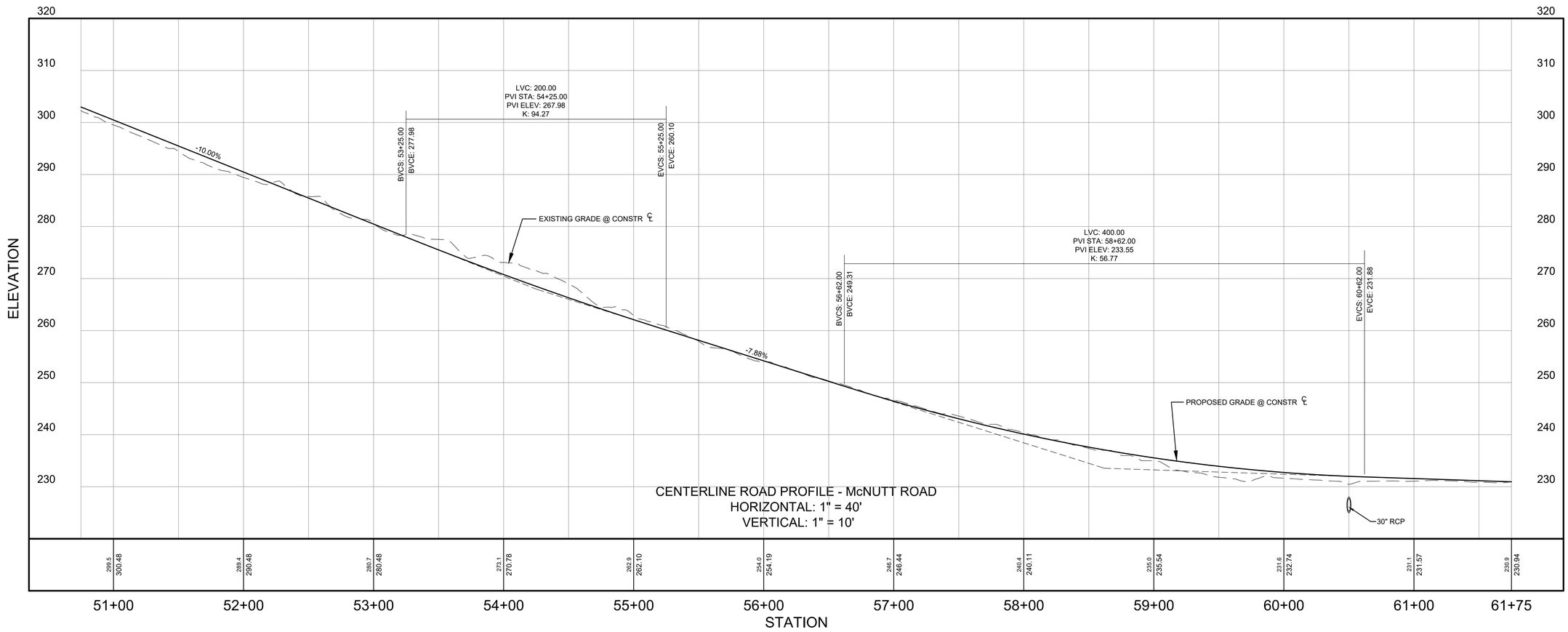
EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: —



INTERMEDIATE PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE GRADING, DRAINAGE, PAVING AND INSTALLATION OF MAJOR STRUCTURES. TEMPORARY EROSION AND SEDIMENTATION MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT ENTIRE PHASE.



CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

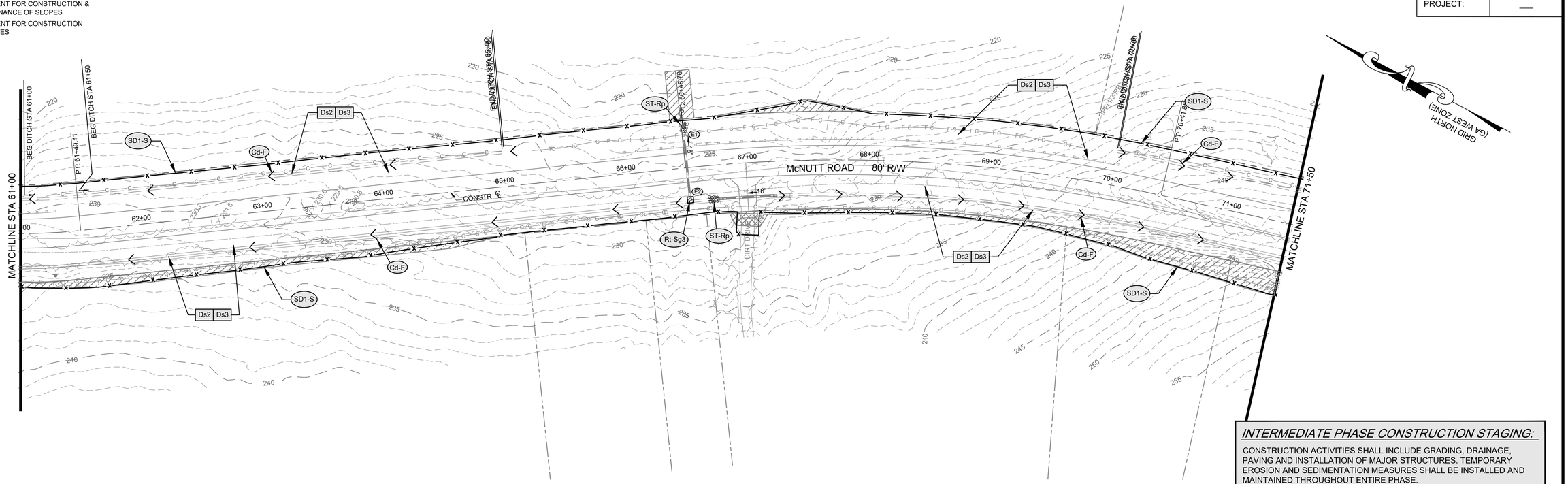
INTERNEDIATE PHASE
MCNUTT ROAD
51+00 TO 60+00

DRAWING NUMBER
54-0019

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

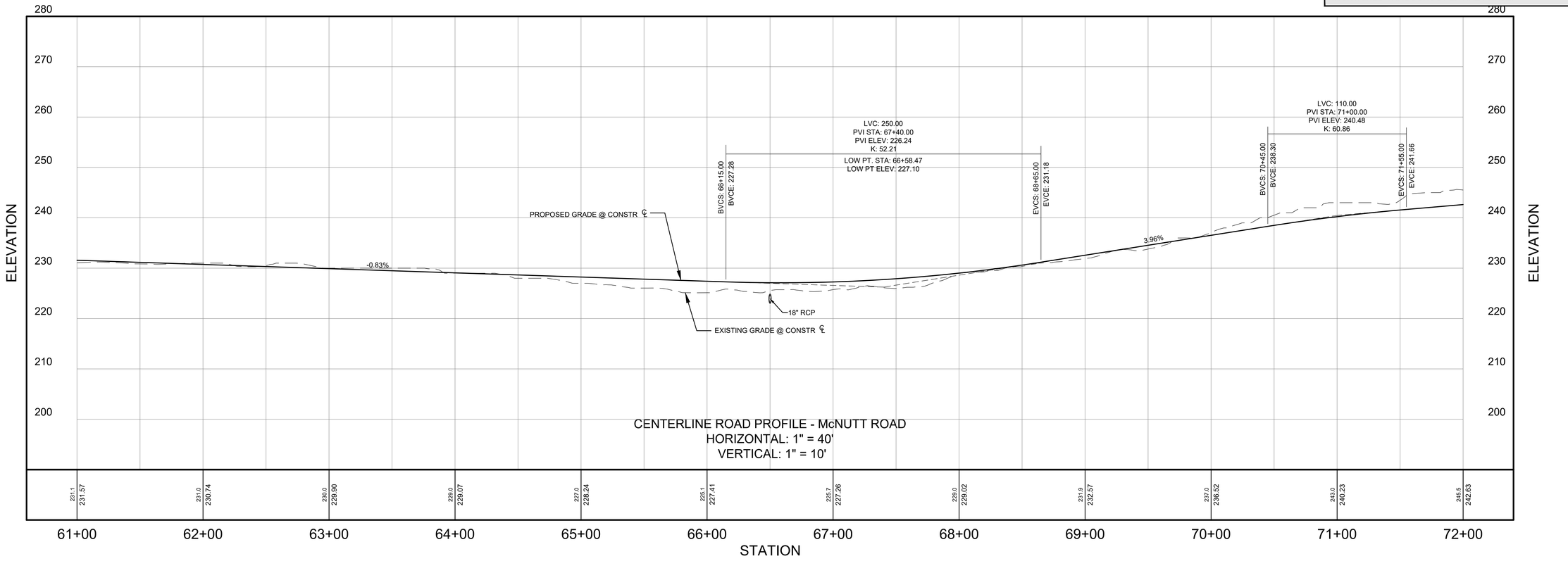
EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: —



INTERMEDIATE PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE GRADING, DRAINAGE, PAVING AND INSTALLATION OF MAJOR STRUCTURES. TEMPORARY EROSION AND SEDIMENTATION MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT ENTIRE PHASE.



HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

MORELAND ALTOBELLI — AN ATLAS COMPANY —

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CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAQILS

INTERMEDIATE PHASE

MCNUTT ROAD
61+00 TO 71+50

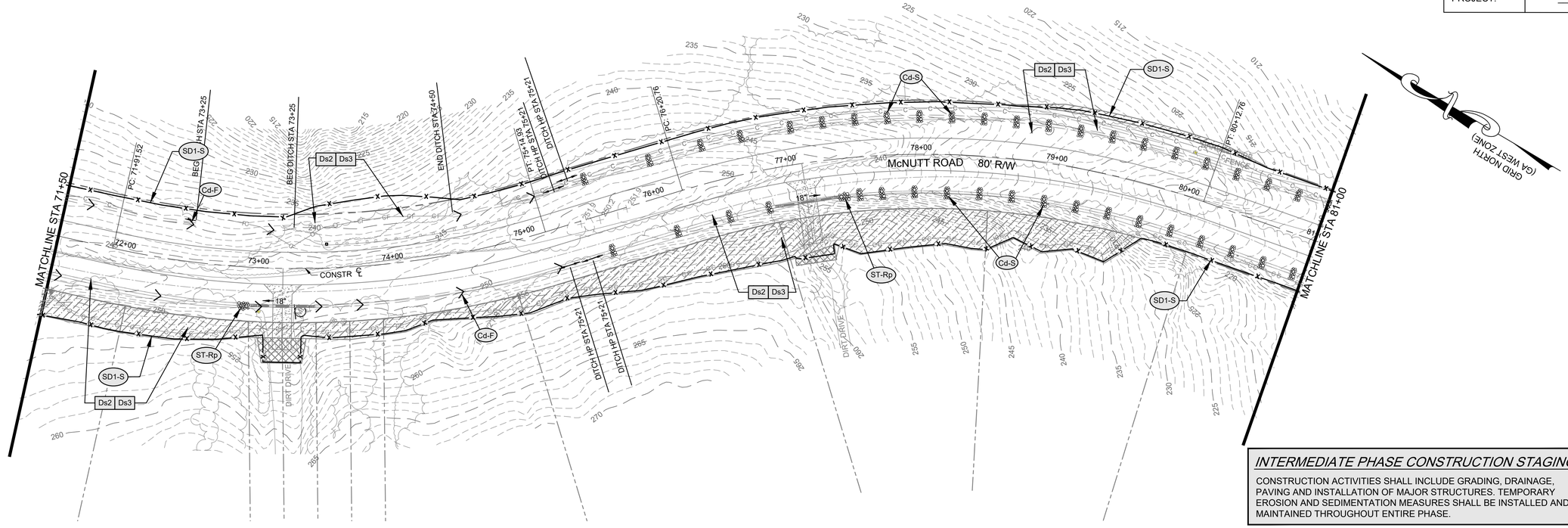
DRAWING NUMBER

54-0020

PROJECT: —

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES



INTERMEDIATE PHASE CONSTRUCTION STAGING:

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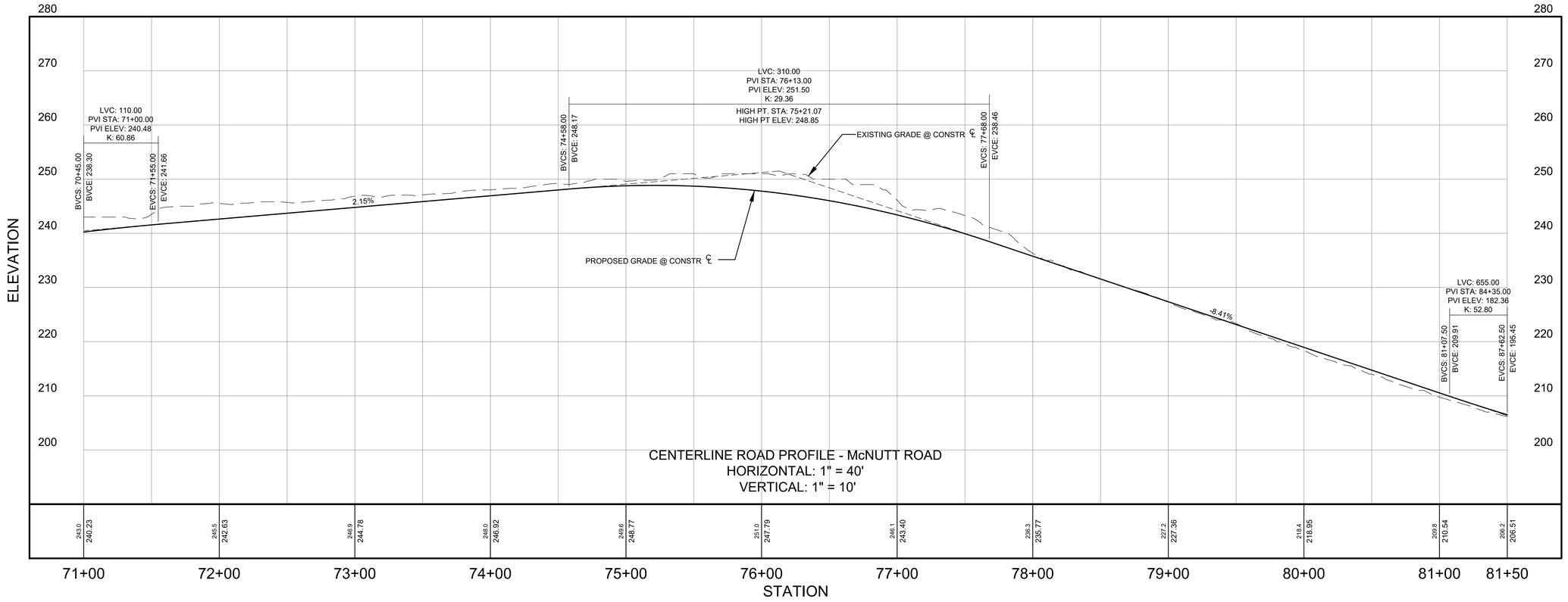

CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INTERMEDIATE PHASE

MCNUTT ROAD
71+50 TO 81+00

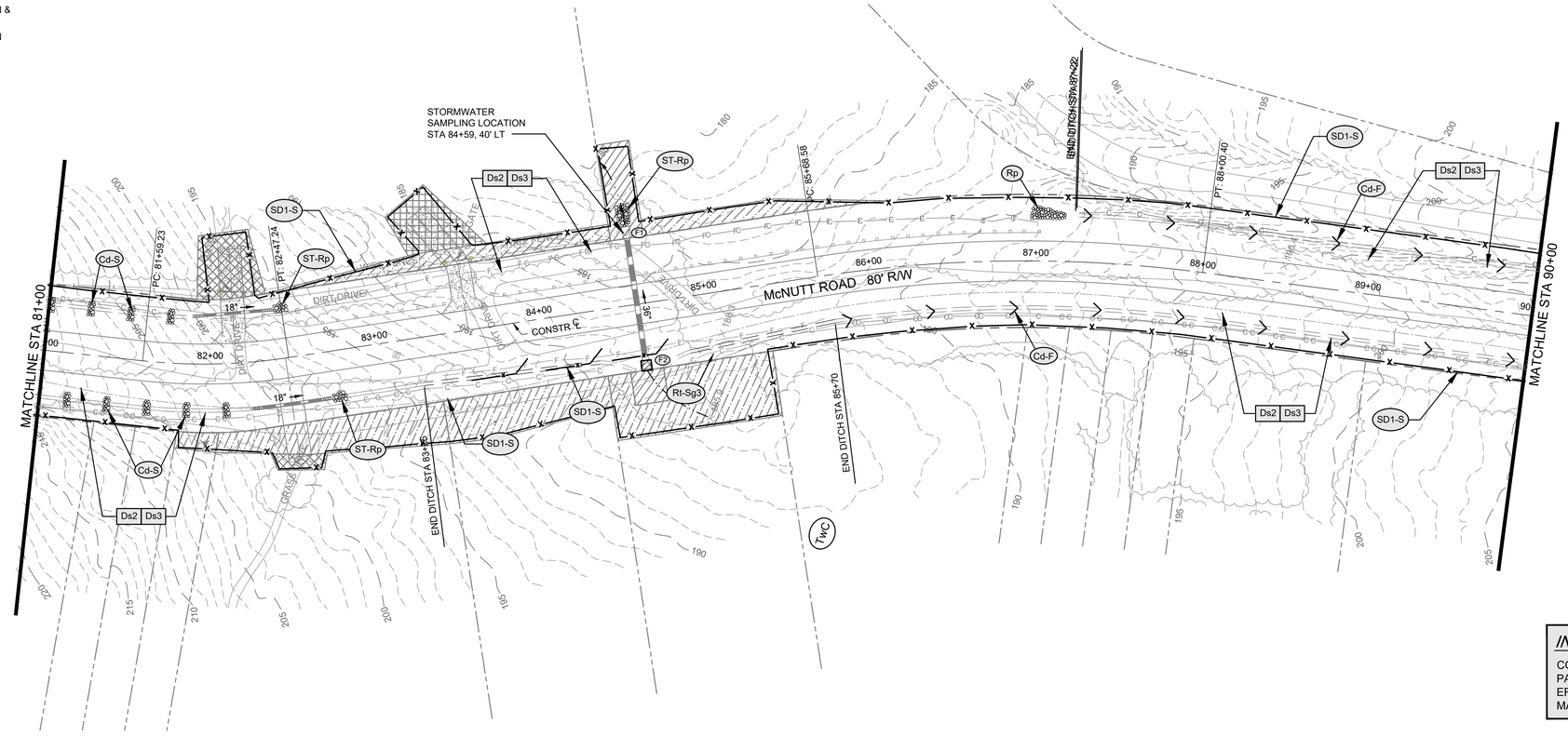
DRAWING NUMBER

54-0021

PROJECT: —

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

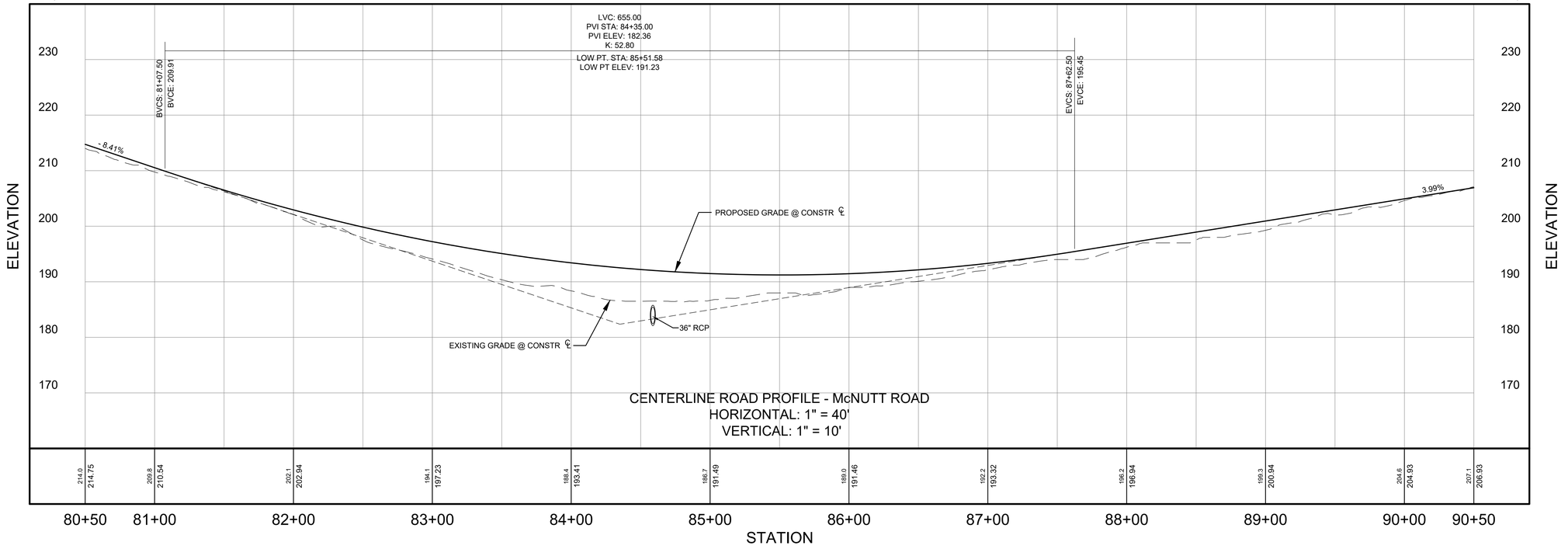
EASEMENT FOR CONSTRUCTION OF DRIVES



GRID NORTH (GA WEST ZONE)

INTERMEDIATE PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE GRADING, DRAINAGE, PAVING AND INSTALLATION OF MAJOR STRUCTURES. TEMPORARY EROSION AND SEDIMENTATION MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT ENTIRE PHASE.



CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

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VERTICAL SCALE: 1" = 10'

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INTERMEDIATE DETAILS
MCNUTT ROAD
81+00 TO 90+00

DRAWING NUMBER
54-0022

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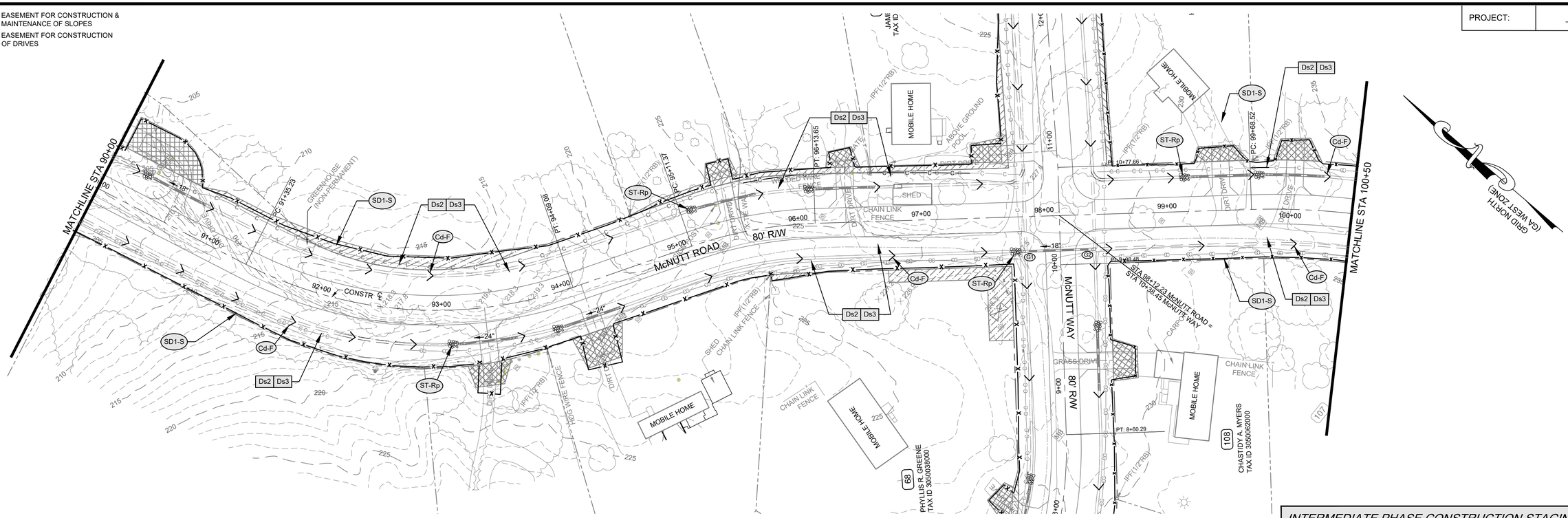
PROJECT: —

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES



INTERMEDIATE PHASE CONSTRUCTION STAGING:

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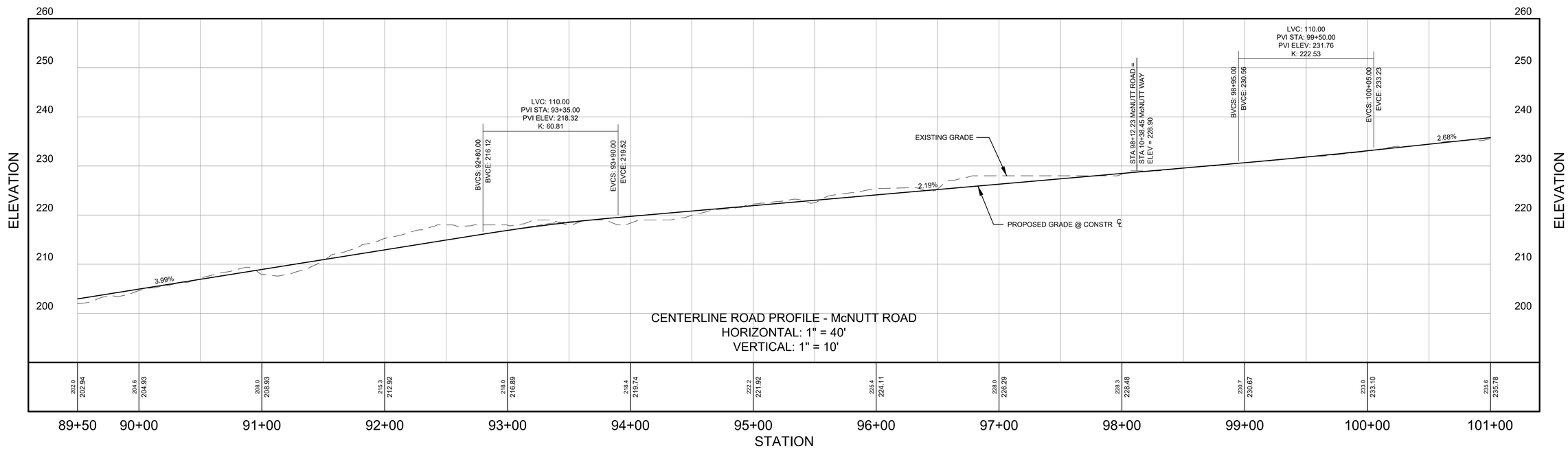

CENTERLINE ROAD PROFILE - McNUTT ROAD
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VERTICAL: 1" = 10'

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INTERMEDIATE PHASE

MCNUTT ROAD
90+00 TO 100+50

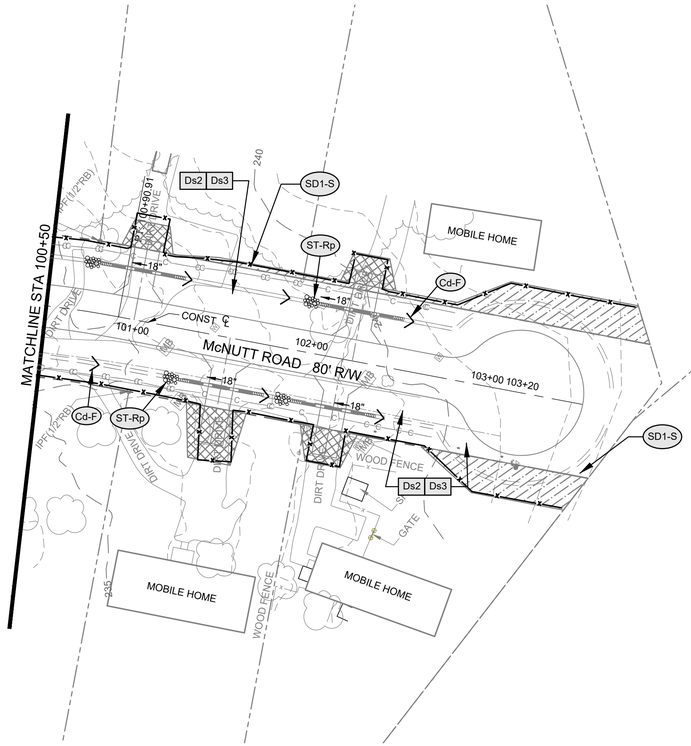
DRAWING NUMBER

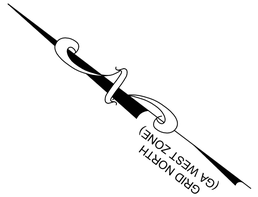
54-0023

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: —





INTERMEDIATE PHASE CONSTRUCTION STAGING:

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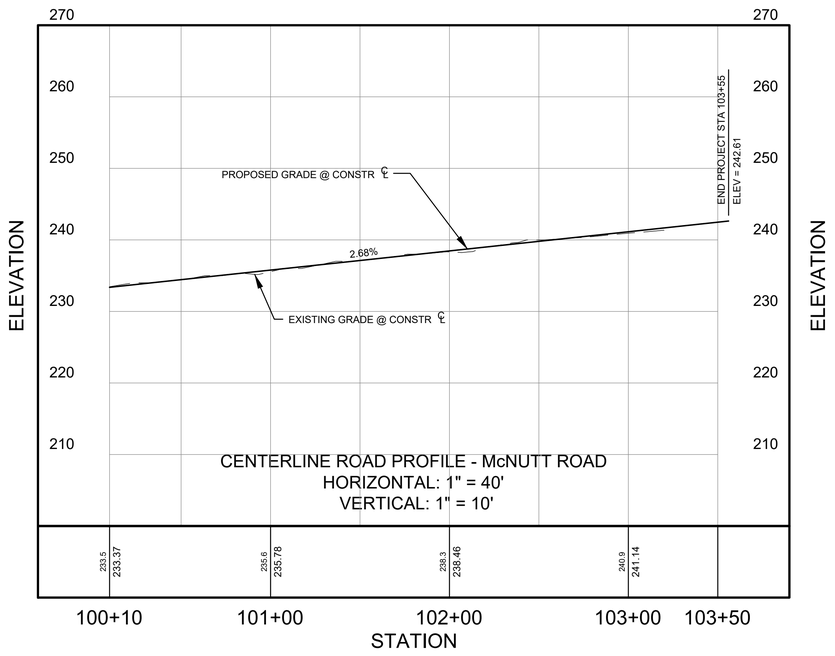

GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

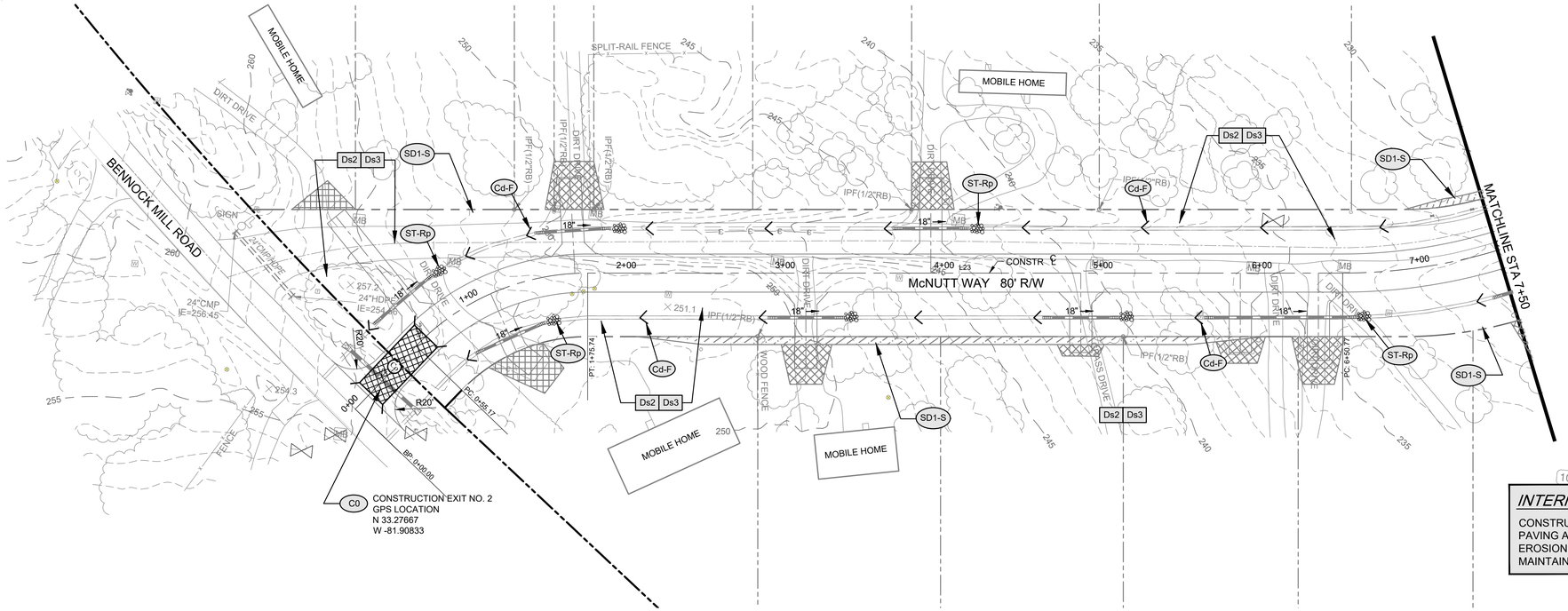
INTERMEDIATE PHASE
MCNUTT ROAD
100+50 TO END

DRAWING NUMBER
54-0024

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

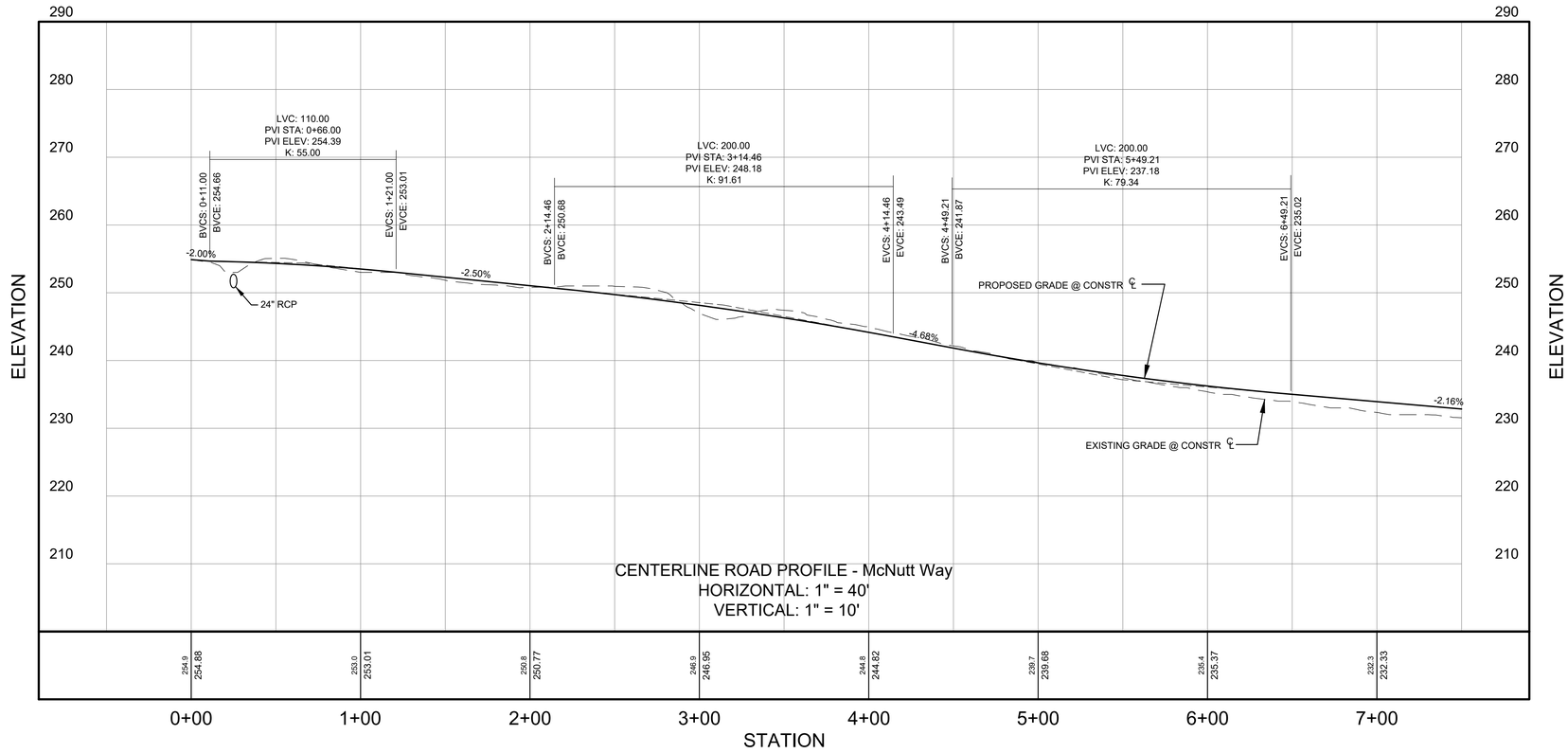
PROJECT: —



109

INTERMEDIATE PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE GRADING, DRAINAGE, PAVING AND INSTALLATION OF MAJOR STRUCTURES. TEMPORARY EROSION AND SEDIMENTATION MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT ENTIRE PHASE.



CENTERLINE ROAD PROFILE - McNutt Way
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INTERMEDIATE DETAILS
MCNUTT WAY
0+00 TO 7+50

DRAWING NUMBER
54-0025

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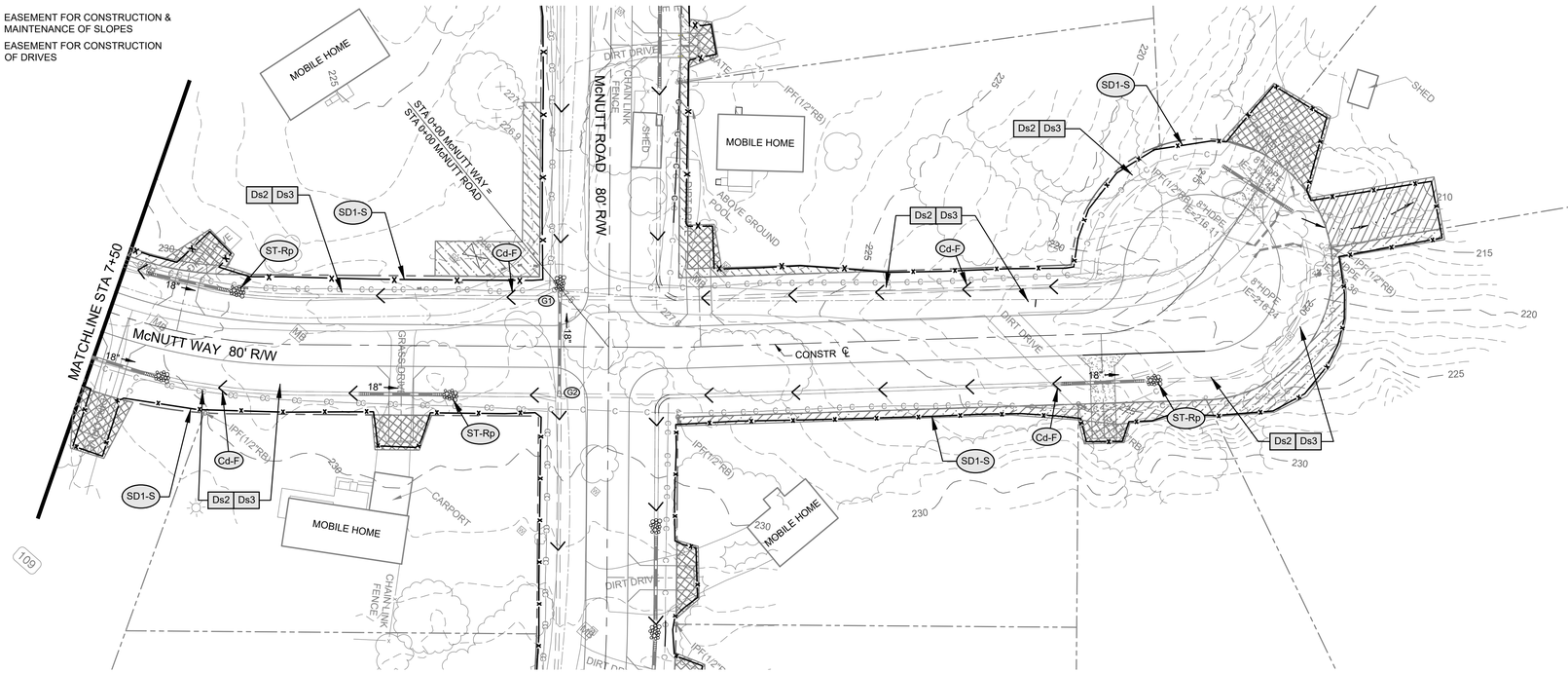
PROJECT: —

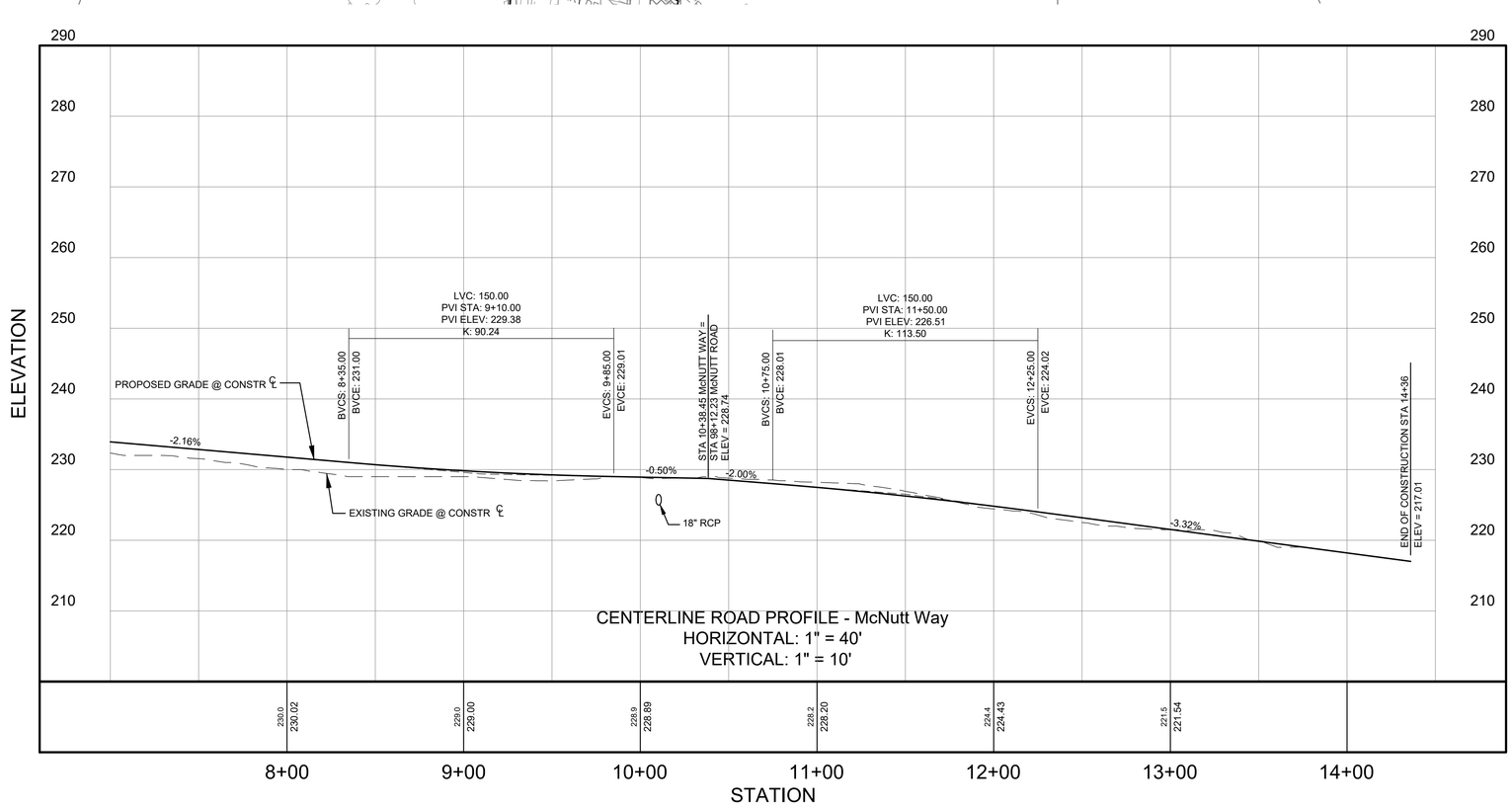
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES



INTERMEDIATE PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE GRADING, DRAINAGE, PAVING AND INSTALLATION OF MAJOR STRUCTURES. TEMPORARY EROSION AND SEDIMENTATION MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT ENTIRE PHASE.



CENTERLINE ROAD PROFILE - McNutt Way
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

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VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

INTERMEDIATE PHASE
MCNUTT WAY
7+50 TO END

DRAWING NUMBER

54-0026

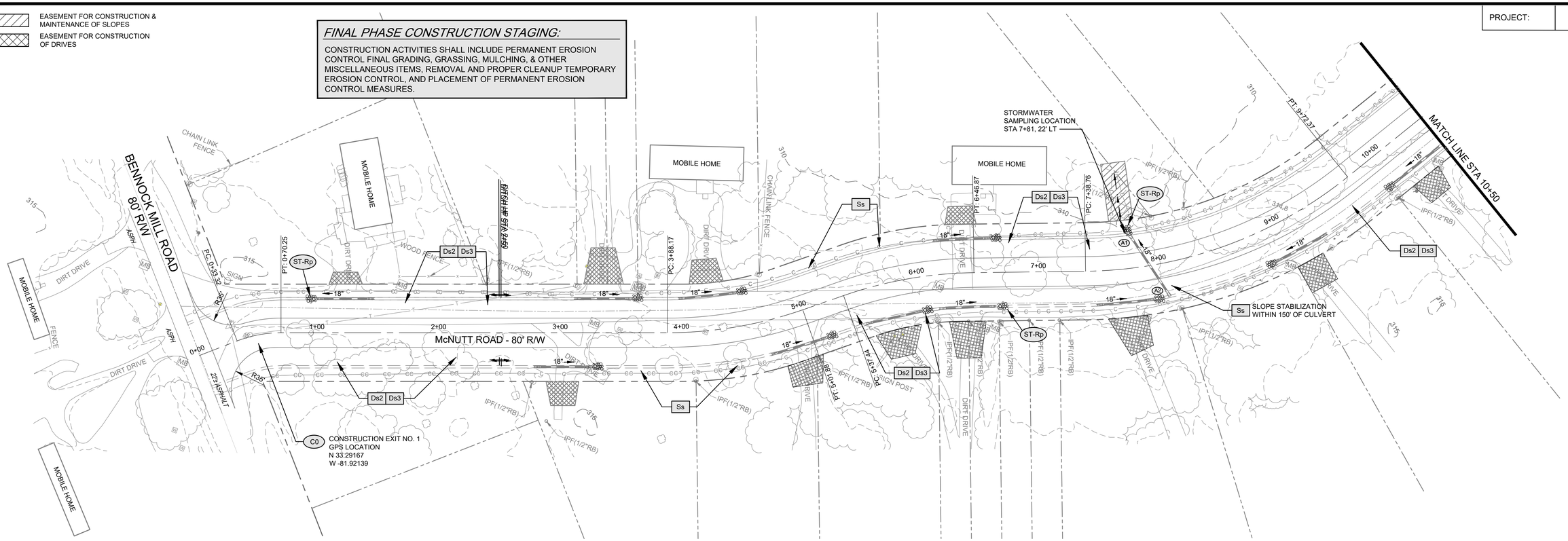
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

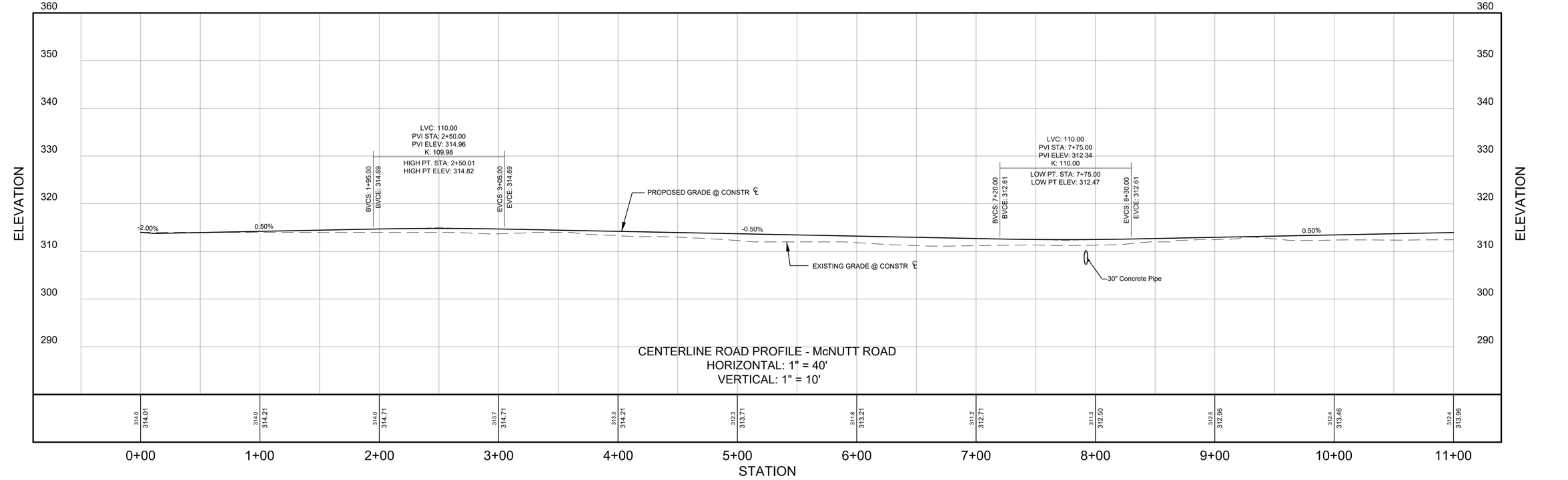
EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: —

FINAL PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE PERMANENT EROSION CONTROL FINAL GRADING, GRASSING, MULCHING, & OTHER MISCELLANEOUS ITEMS, REMOVAL AND PROPER CLEANUP TEMPORARY EROSION CONTROL, AND PLACEMENT OF PERMANENT EROSION CONTROL MEASURES.





0+00	1+00	2+00	3+00	4+00	5+00	6+00	7+00	8+00	9+00	10+00	11+00
314.01	314.21	314.71	314.71	314.21	313.71	313.21	312.71	312.50	312.96	313.46	313.96

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

MORELAND ALTOBELLI — AN ATLAS COMPANY

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
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Augusta Georgia

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

FINAL PHASE
MCNUTT ROAD
0+00 TO 10+50

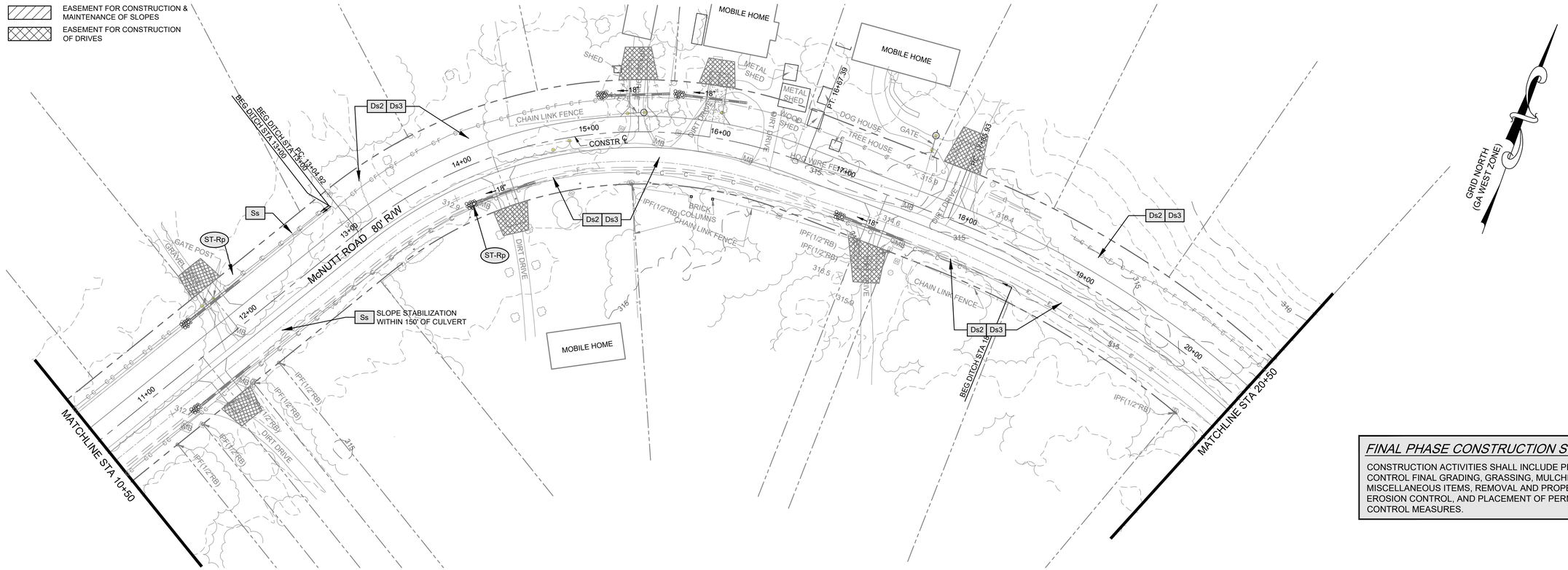
DRAWING NUMBER

54-0027

PROJECT: —

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES



FINAL PHASE CONSTRUCTION STAGING:

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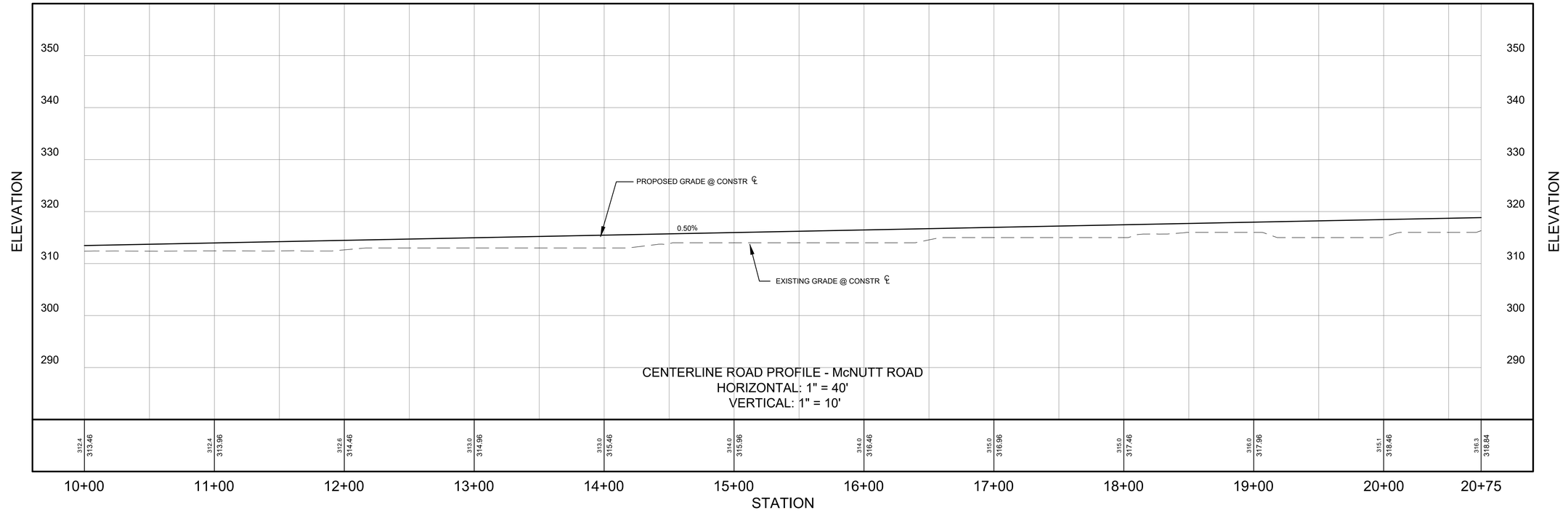

CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

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Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

FINAL PHASE
MCNUTT ROAD
10+50 TO 20+50

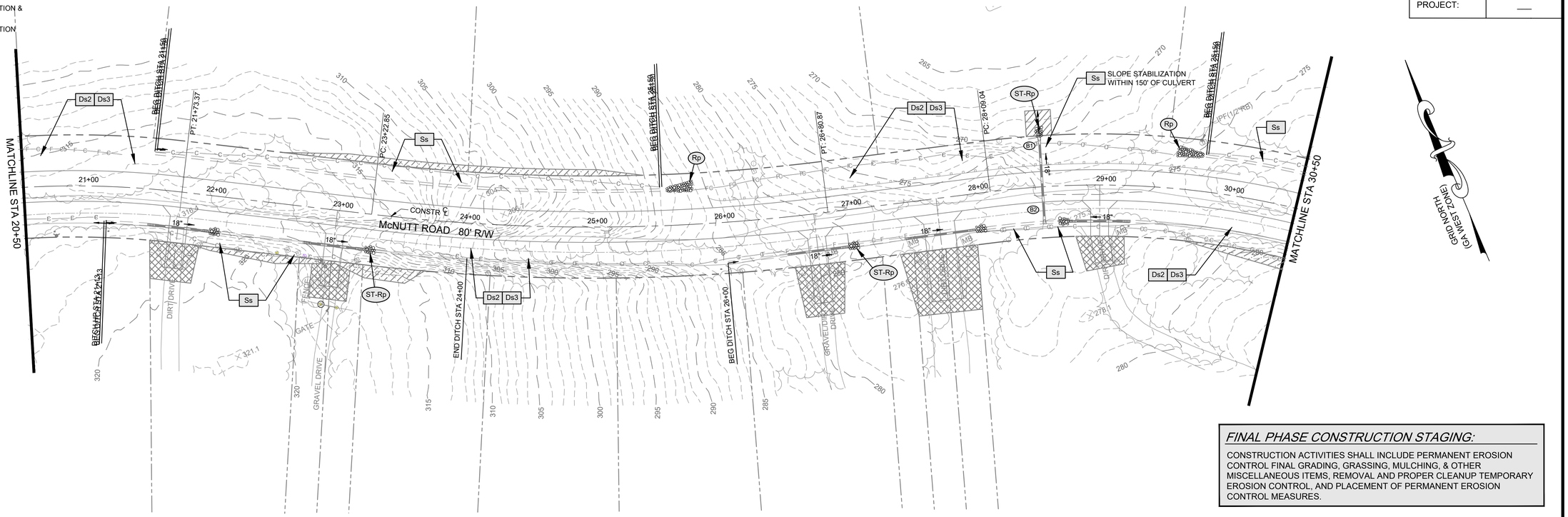
DRAWING NUMBER

54-0028

PROJECT:	—

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES



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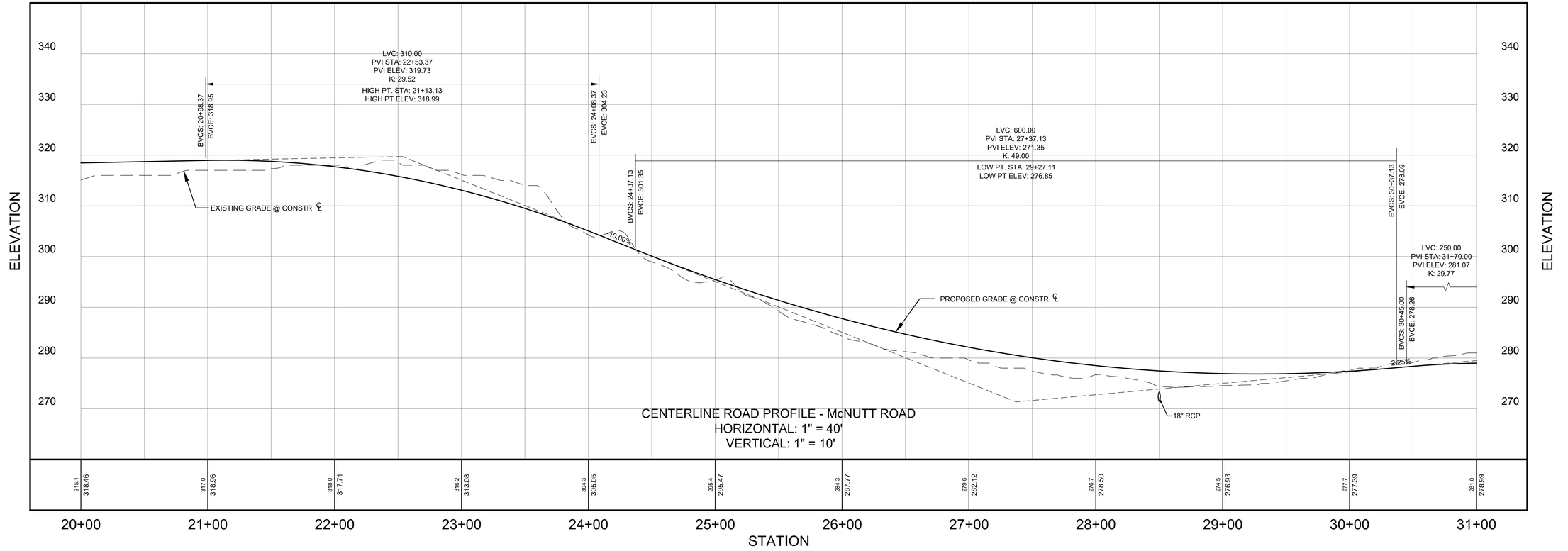

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Augusta Georgia

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES	

BMP LOCATION DETAILS

FINAL PHASE
MCNUTT ROAD
20+50 TO 30+50

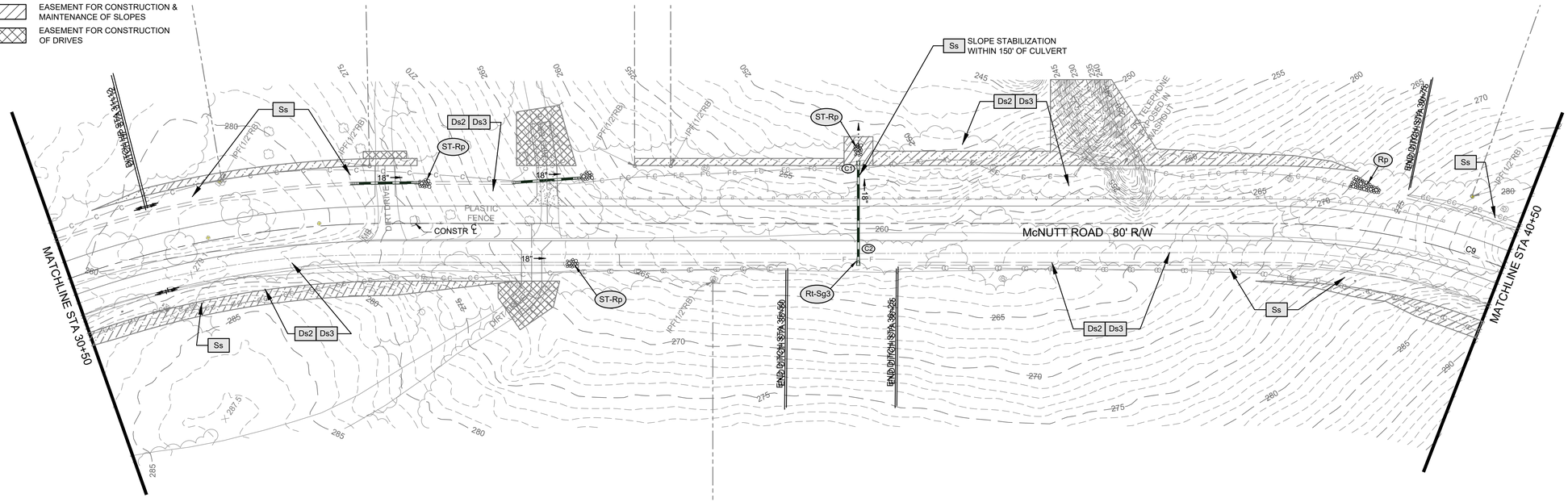
DRAWING NUMBER

54-0029

PROJECT: —

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES



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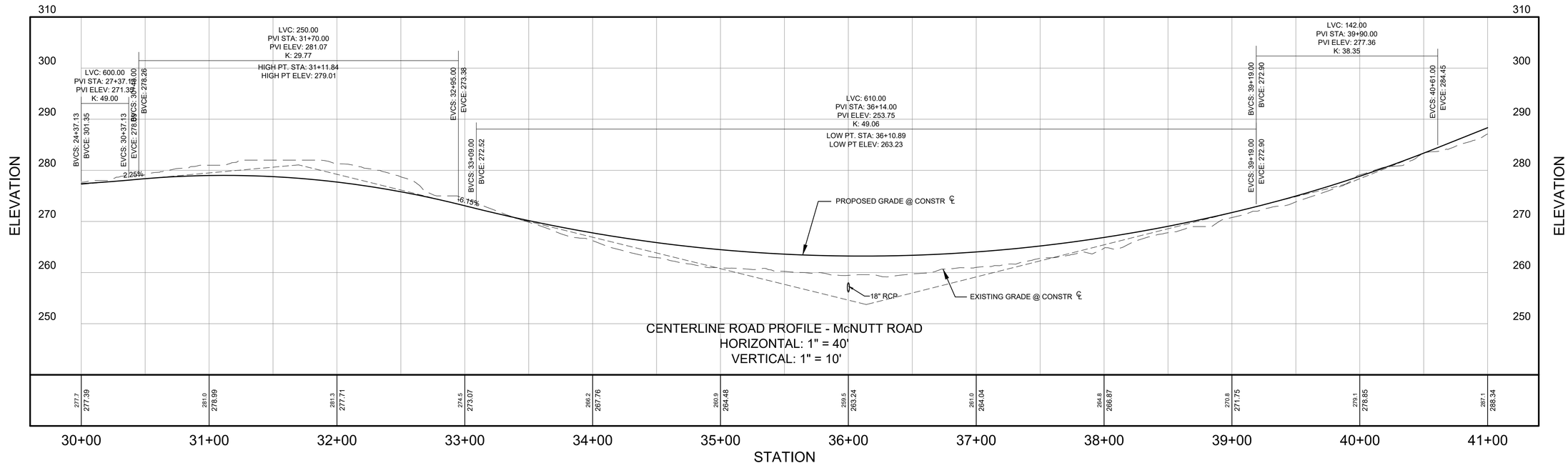

CENTERLINE ROAD PROFILE - McNUTT ROAD
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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

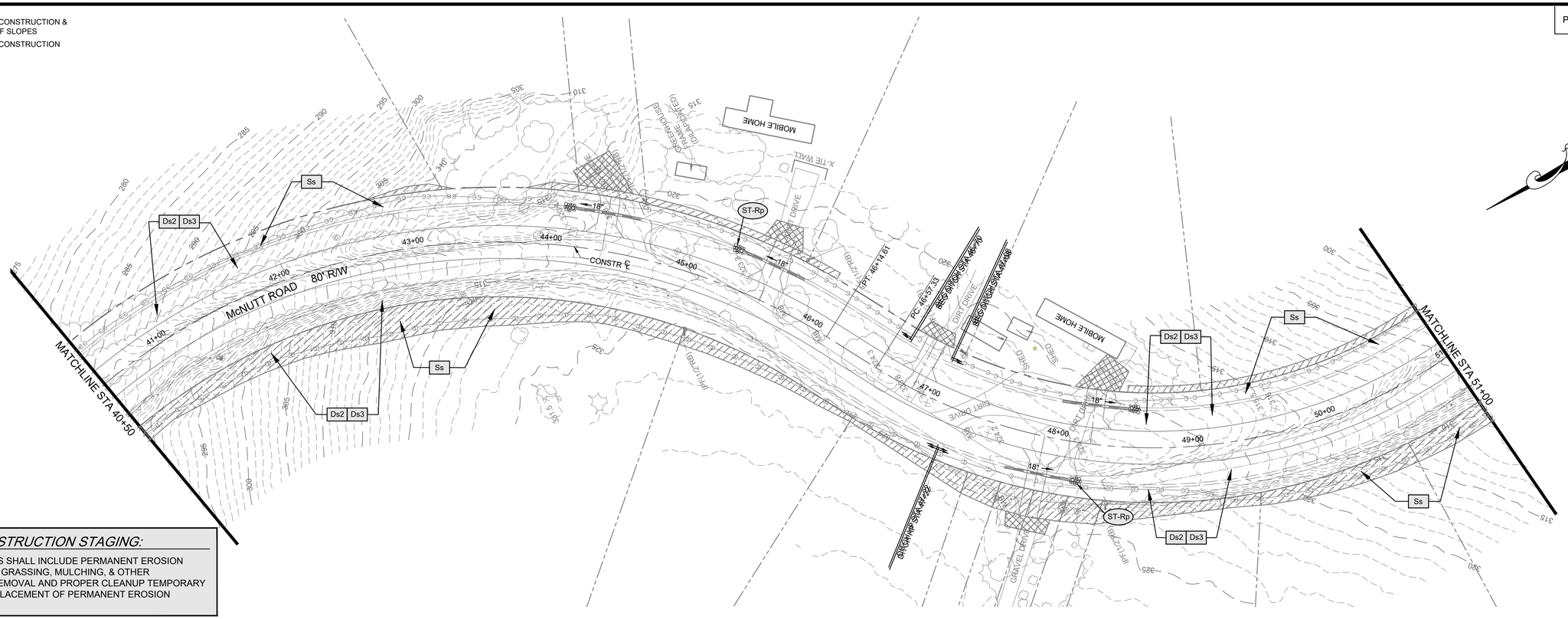
FINAL PHASE
MCNUTT ROAD
30+50 TO 40+50

DRAWING NUMBER
54-0030

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

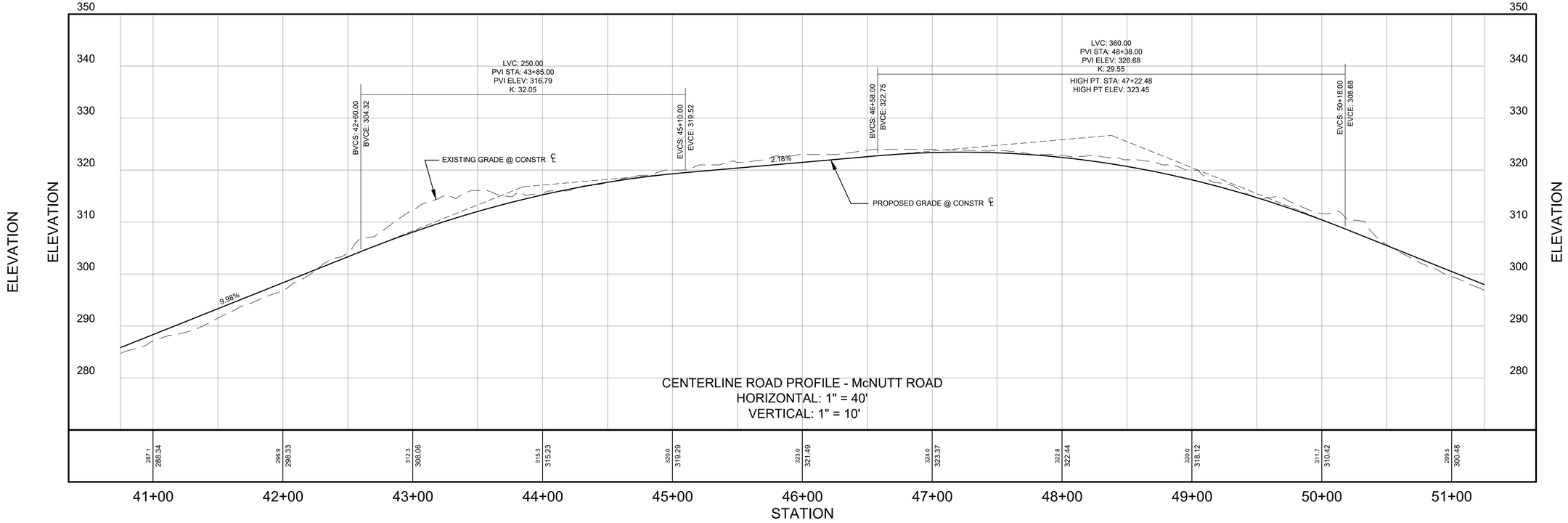
EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: —



FINAL PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE PERMANENT EROSION CONTROL FINAL GRADING, GRASSING, MULCHING, & OTHER MISCELLANEOUS ITEMS, REMOVAL AND PROPER CLEANUP TEMPORARY EROSION CONTROL, AND PLACEMENT OF PERMANENT EROSION CONTROL MEASURES.



GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

FINAL PHASE
MCNUTT ROAD
40+50 TO 51+00

DRAWING NUMBER

54-0031

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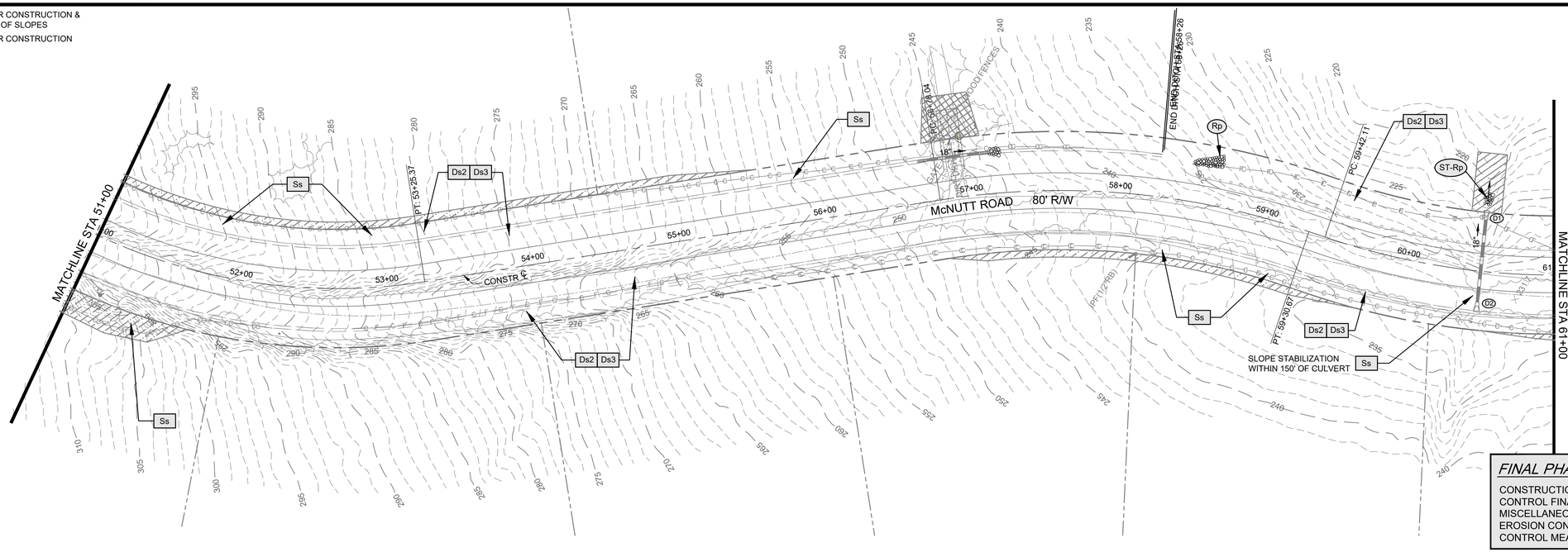
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

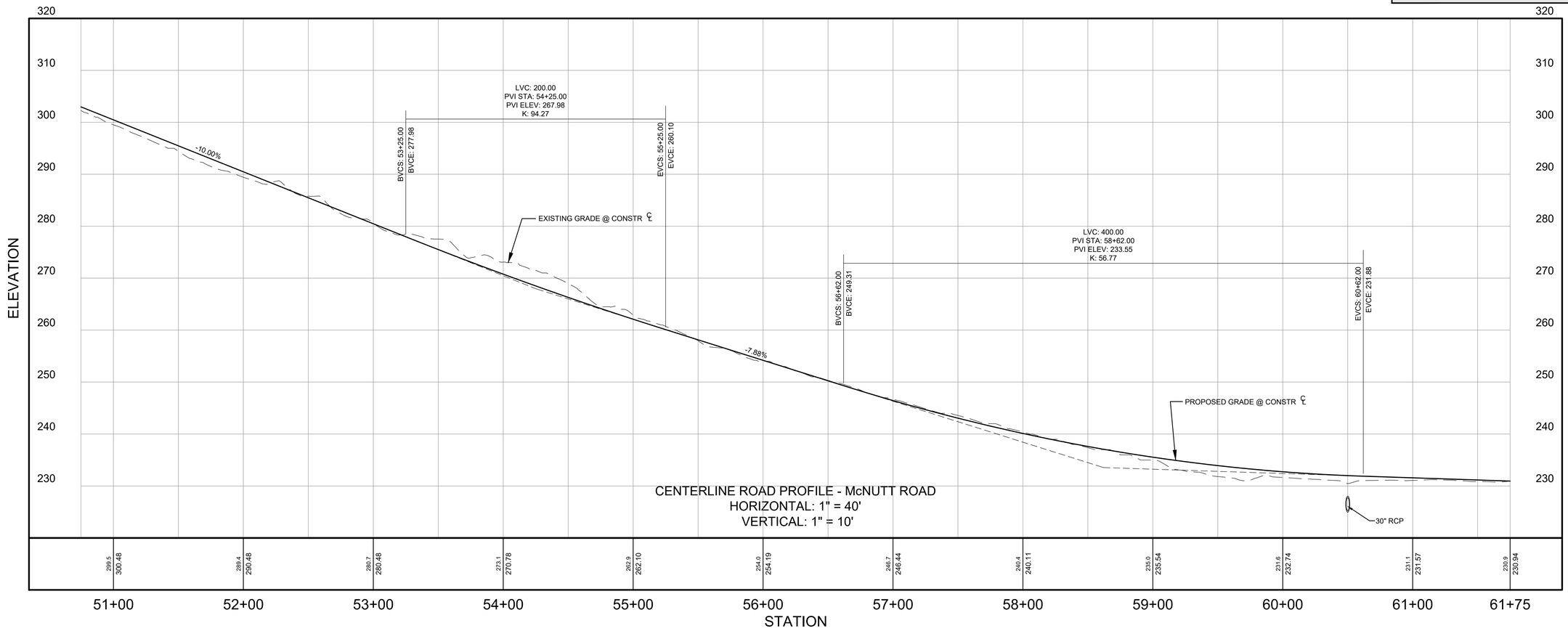
EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: —



FINAL PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE PERMANENT EROSION CONTROL FINAL GRADING, GRASSING, MULCHING, & OTHER MISCELLANEOUS ITEMS, REMOVAL AND PROPER CLEANUP TEMPORARY EROSION CONTROL, AND PLACEMENT OF PERMANENT EROSION CONTROL MEASURES.



CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
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Cumming, Georgia 30040
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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

FINAL PHASE
MCNUTT ROAD
51+00 TO 60+00

DRAWING NUMBER
54-0032

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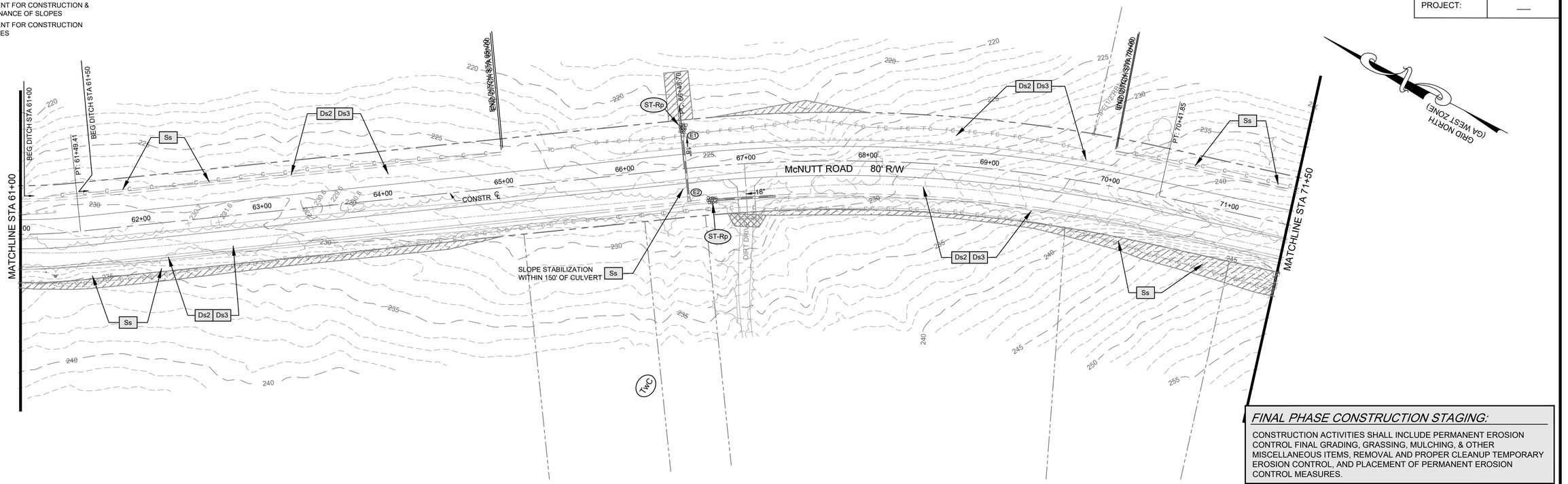
PROJECT: —

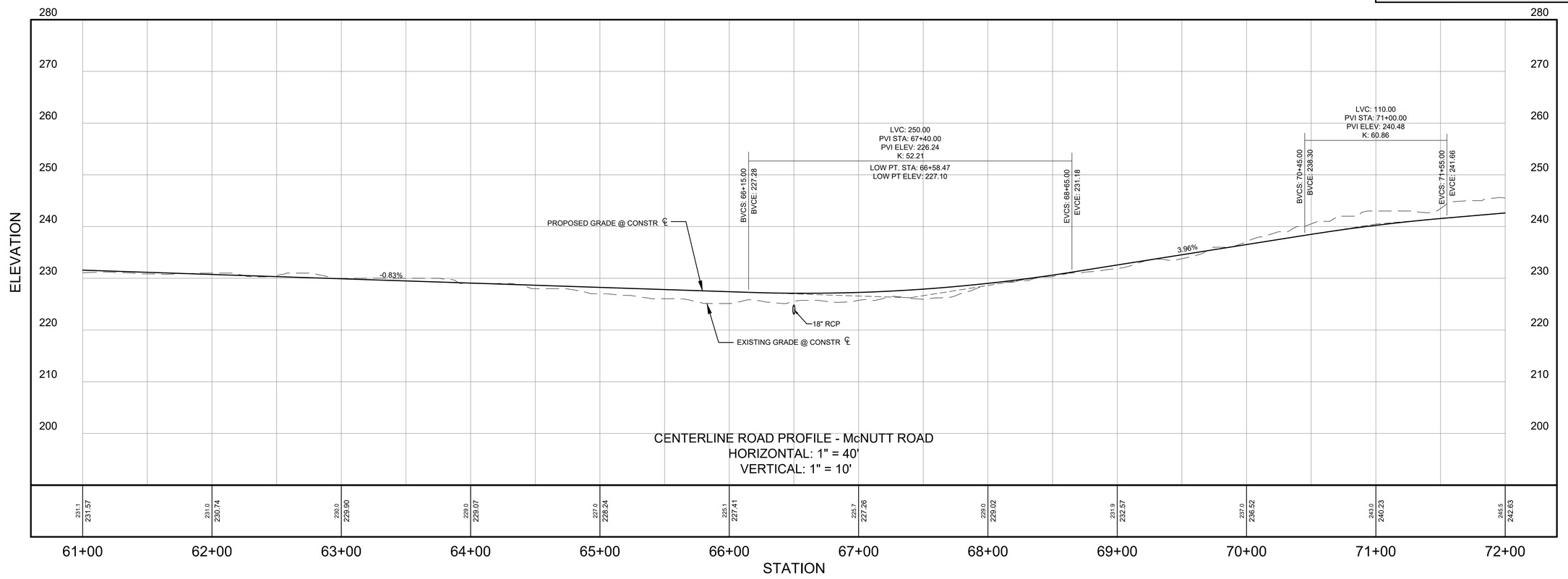
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES



FINAL PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE PERMANENT EROSION CONTROL FINAL GRADING, GRASSING, MULCHING, & OTHER MISCELLANEOUS ITEMS, REMOVAL AND PROPER CLEANUP TEMPORARY EROSION CONTROL, AND PLACEMENT OF PERMANENT EROSION CONTROL MEASURES.



CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

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HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAQILS

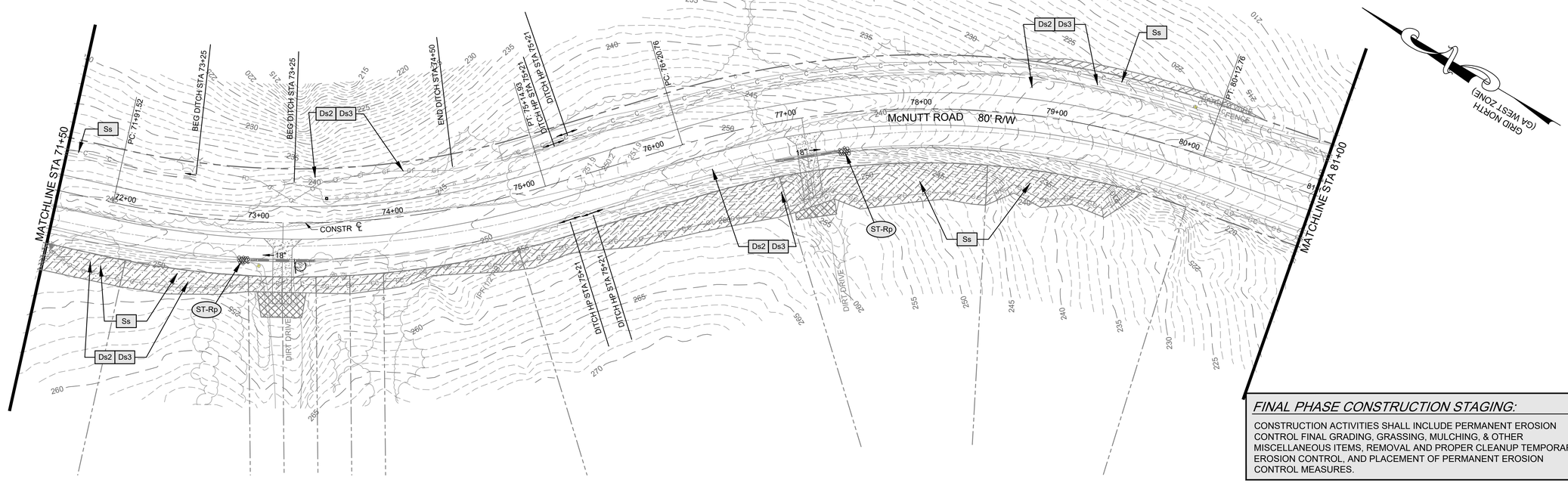
FINAL PHASE
MCNUTT ROAD
61+00 TO 71+50

DRAWING NUMBER
54-0033

PROJECT: —

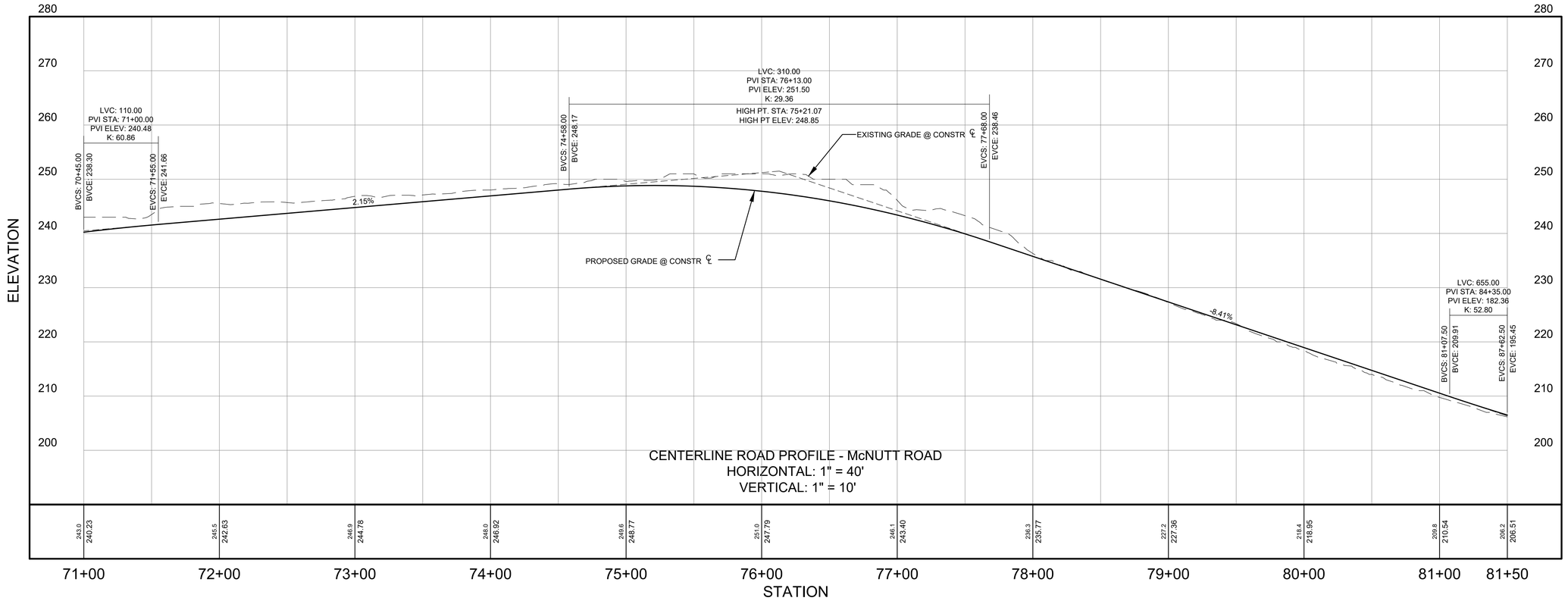
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES



FINAL PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE PERMANENT EROSION CONTROL FINAL GRADING, GRASSING, MULCHING, & OTHER MISCELLANEOUS ITEMS, REMOVAL AND PROPER CLEANUP TEMPORARY EROSION CONTROL, AND PLACEMENT OF PERMANENT EROSION CONTROL MEASURES.



HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

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MORELAND ALTOBELLI — AN ATLAS COMPANY —

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DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

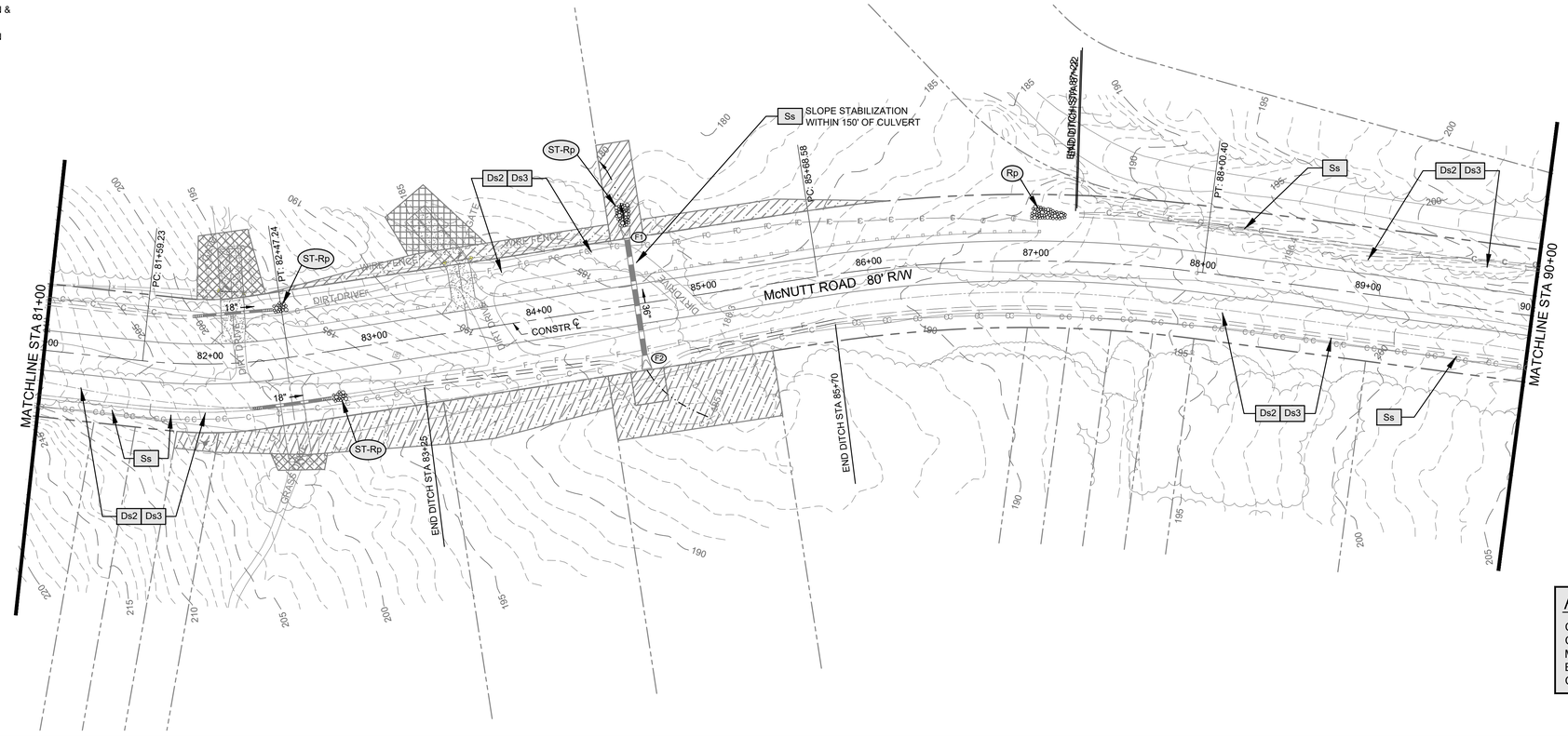
FINAL PHASE
MCNUTT ROAD
71+50 TO 81+00

DRAWING NUMBER
54-0034

PROJECT: —

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES



FINAL PHASE CONSTRUCTION STAGING:

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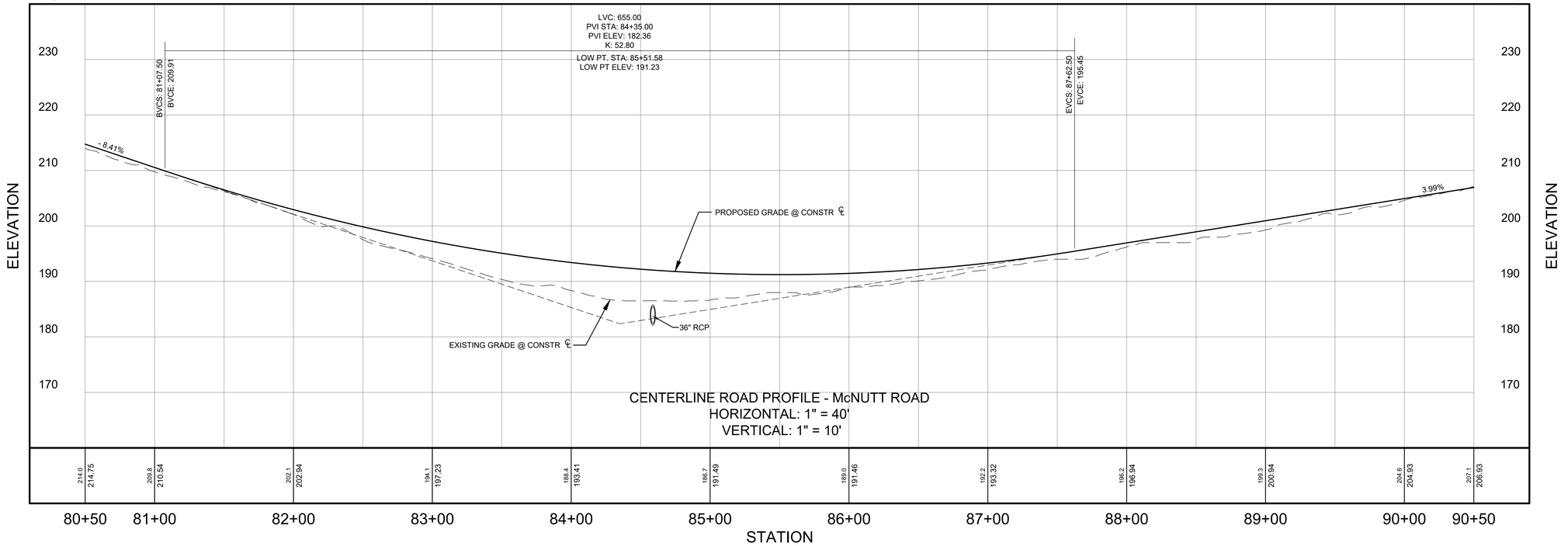

CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

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HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

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Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

FINAL DETAILS
MCNUTT ROAD
81+00 TO 90+00

DRAWING NUMBER
54-0035

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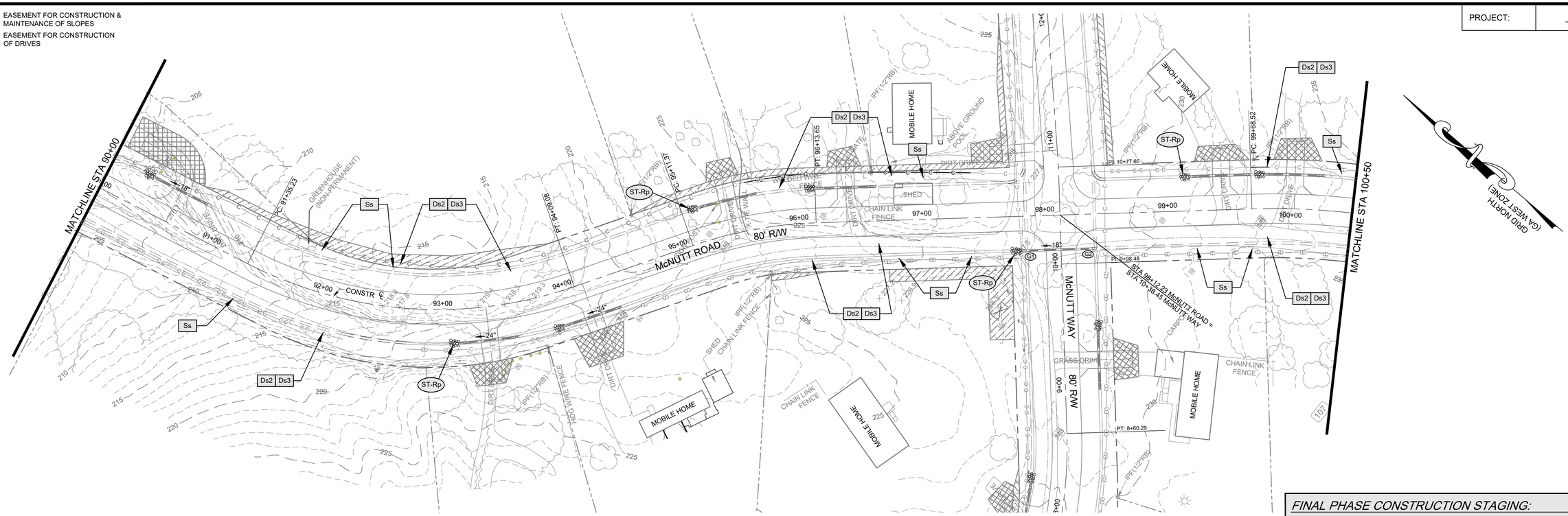
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

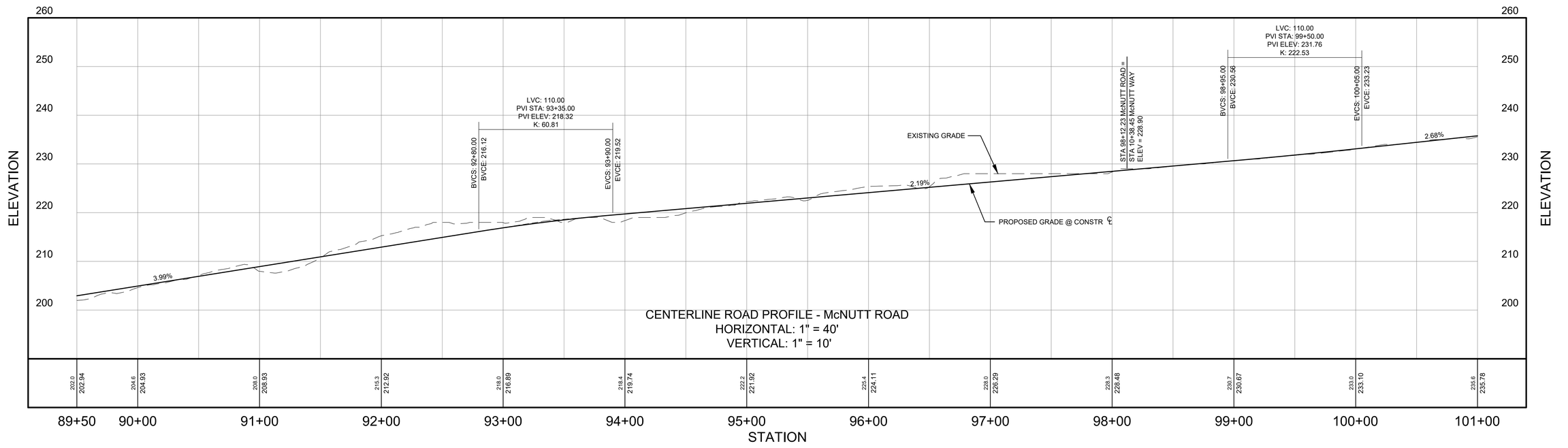
EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: —



FINAL PHASE CONSTRUCTION STAGING:

CONSTRUCTION ACTIVITIES SHALL INCLUDE PERMANENT EROSION CONTROL FINAL GRADING, GRASSING, MULCHING, & OTHER MISCELLANEOUS ITEMS, REMOVAL AND PROPER CLEANUP TEMPORARY EROSION CONTROL, AND PLACEMENT OF PERMANENT EROSION CONTROL MEASURES.



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HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
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Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

FINAL PHASE
MCNUTT ROAD
90+00 TO 100+50

DRAWING NUMBER

54-0036

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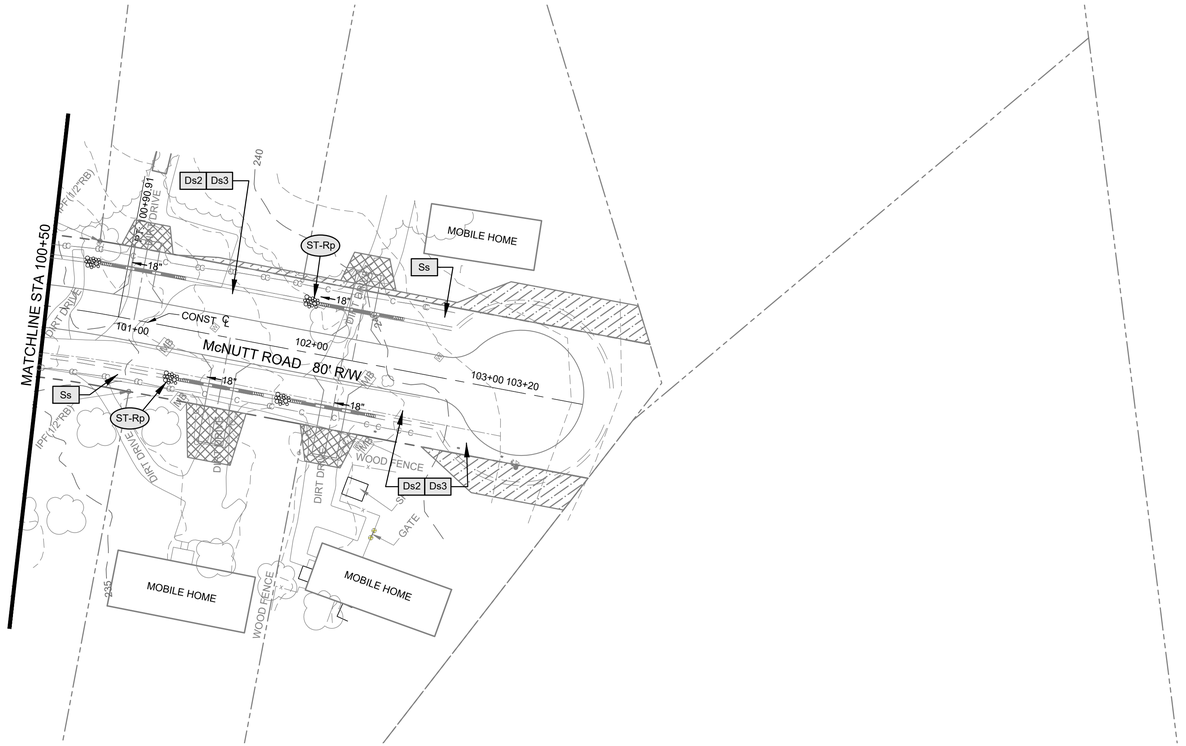
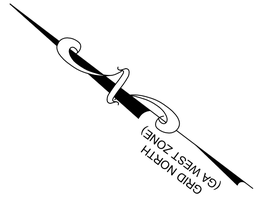
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: —





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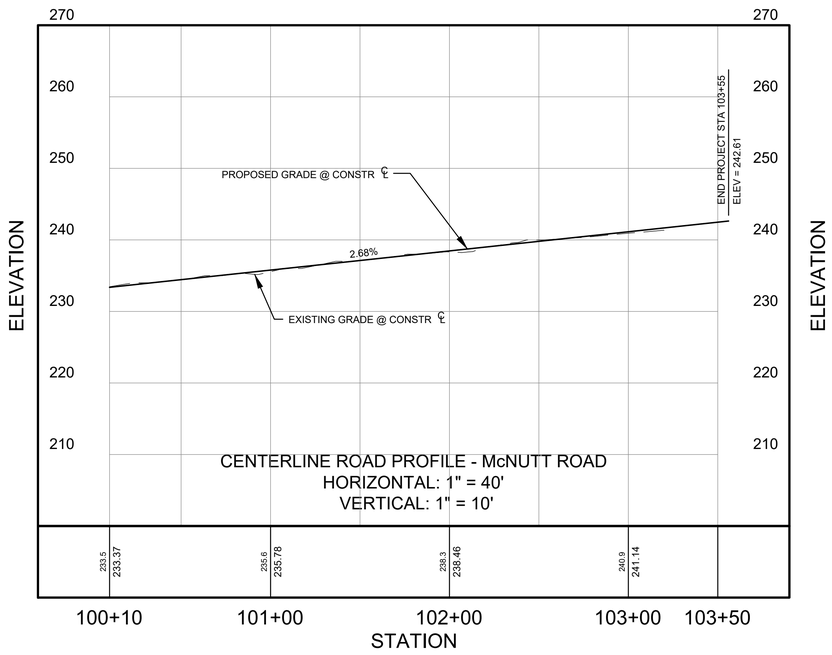

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HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

FINAL PHASE
MCNUTT ROAD
100+50 TO END

DRAWING NUMBER
54-0037

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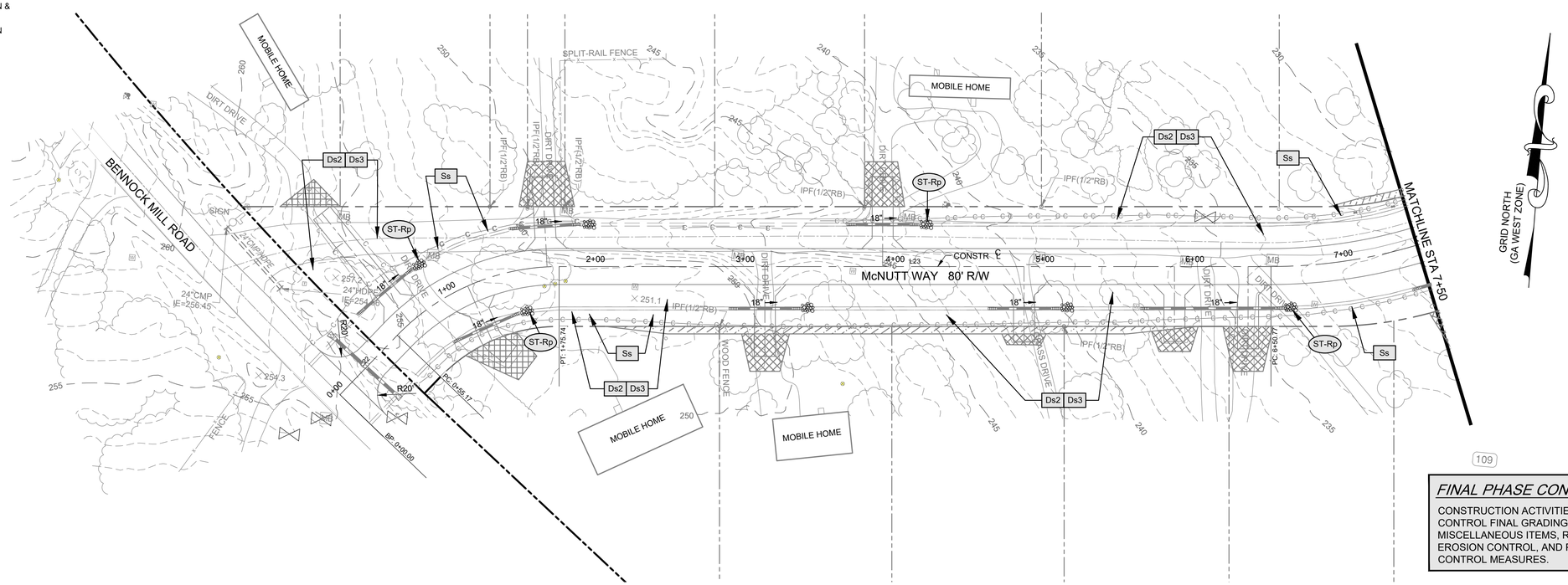
PROJECT: —

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES



FINAL PHASE CONSTRUCTION STAGING:

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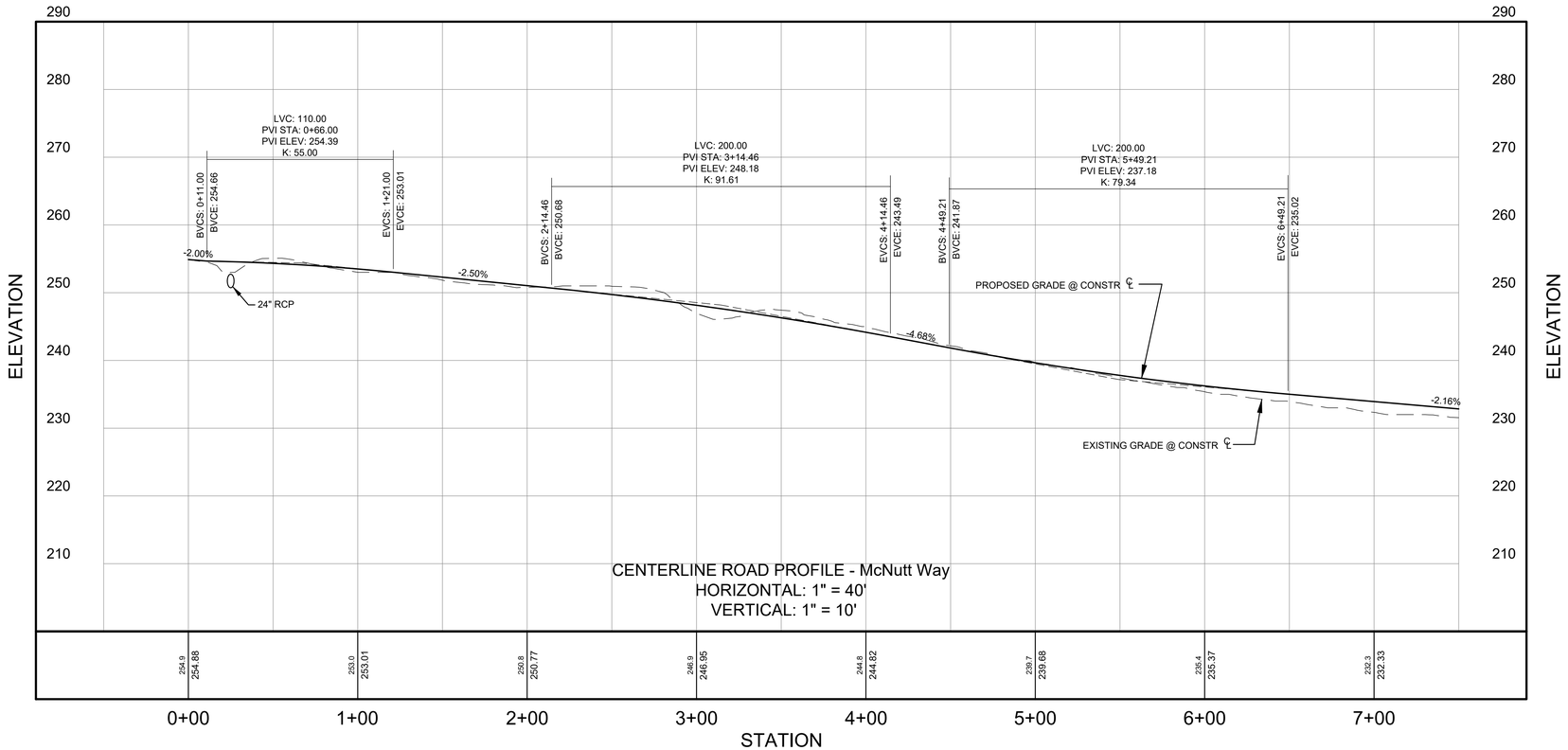

CENTERLINE ROAD PROFILE - McNutt Way
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
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Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

FINAL DETAILS
MCNUTT WAY
0+00 TO 7+50

DRAWING NUMBER
54-0038

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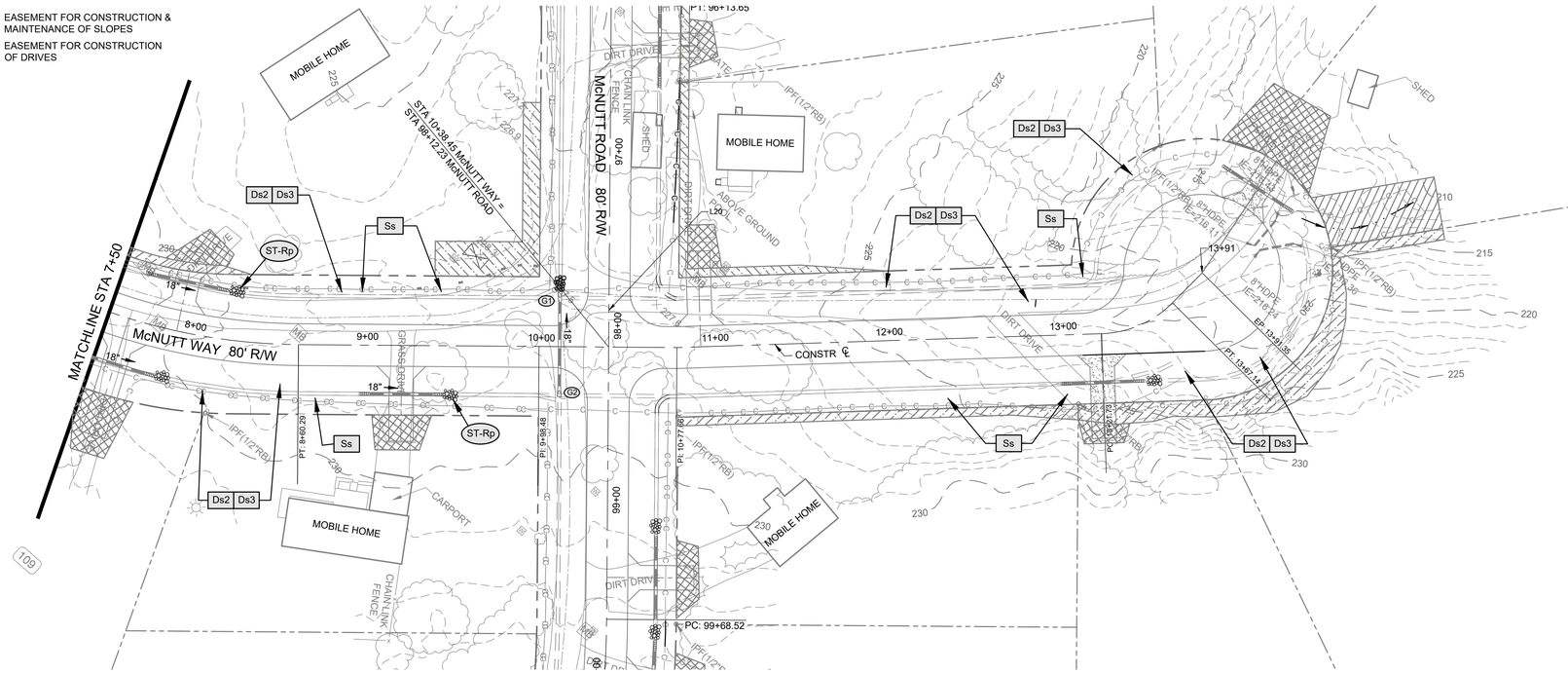

▨ EASEMENT FOR CONSTRUCTION & MAINTENANCE OF SLOPES

▩ EASEMENT FOR CONSTRUCTION OF DRIVES

PROJECT: ___

FINAL PHASE CONSTRUCTION STAGING:

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CENTERLINE ROAD PROFILE - McNutt Way
HORIZONTAL: 1" = 40'
VERTICAL: 1" = 10'

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MORELAND ALTOBELLI
— AN ATLAS COMPANY —

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327 Dahlonega Street
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Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

BMP LOCATION DETAILS

FINAL PHASE
MCNUTT WAY
7+50 TO END

DRAWING NUMBER
54-0039

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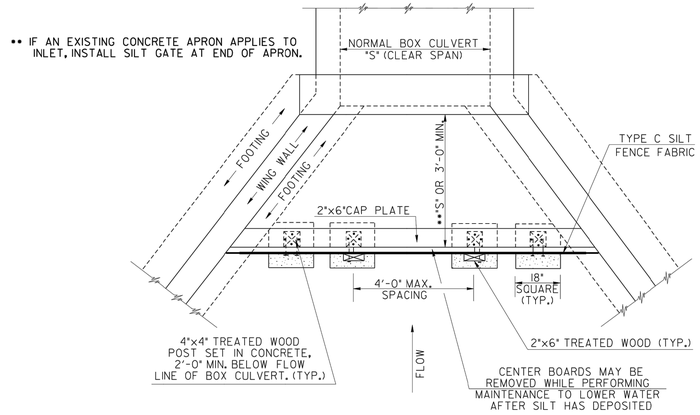
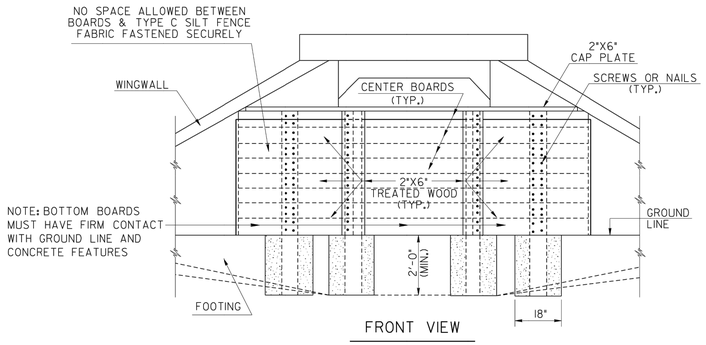
PROJECT: —

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

TYPE 1- FOR BOX CULVERTS

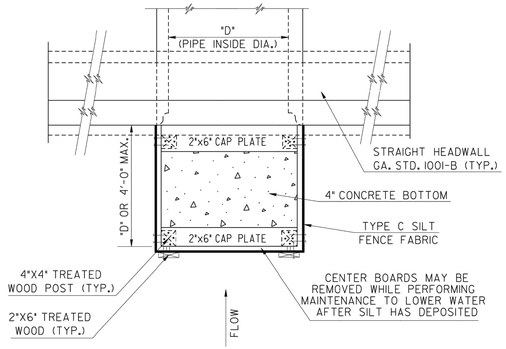


TOP VIEW

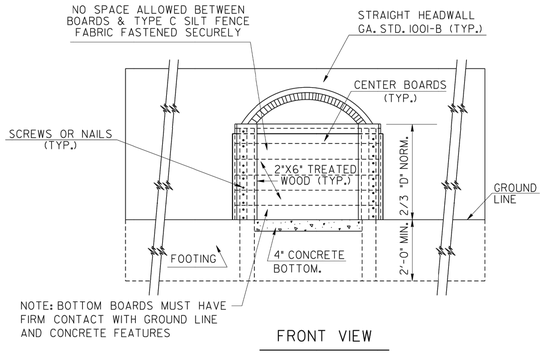


FRONT VIEW

TYPE 2 - FOR STRAIGHT HEADWALLS

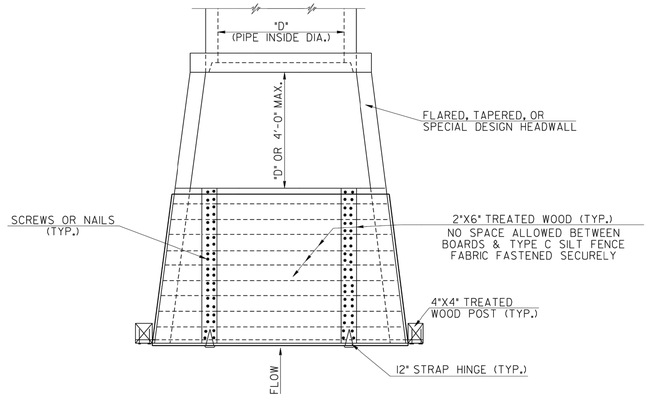


TOP VIEW

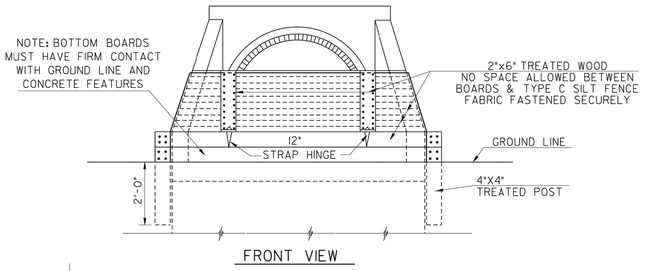


FRONT VIEW

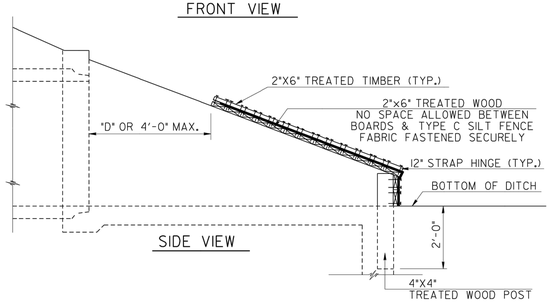
TYPE 3 - FOR FLARED END SECTIONS AND TAPERED HEADWALLS



TOP VIEW



FRONT VIEW



SIDE VIEW

SILT CONTROL GATE TYPE 1 NOTES:

1. REFER TO GA. STD 2332 FOR CONCRETE APRONS.
2. SEE SECTION 163 FOR THE REMOVAL OF TYPE 1 SILT CONTROL GATES.

GENERAL NOTES:

1. A SILT CONTROL GATE IS A TEMPORARY STRUCTURE PLACED AT INLETS TO FORM A BASIN FOR TRAPPING SEDIMENT.
2. SILT GATES SHALL NOT BE USED ON STRUCTURES THAT CONVEY STATE WATERS.
3. SILT GATES SHALL ONLY BE USED ON DRAINAGE AREAS UP TO 50-ACRES WITH NO MORE THAN 5-ACRES DISTURBED WITHIN THE DRAINAGE AREA.
4. USE WOOD SCREWS OR NAILS TO CONNECT WOOD COMPONENTS WITH NO SPACE ALLOWED BETWEEN BOARDS. TYPE C SILT FENCE FABRIC MUST BE FASTENED SECURELY WITH STAPLES OR NAILS TO OUTSIDE FACE OF BOARDS AND COVERING ALL BUTT-JOINTS BETWEEN BOARDS. OVERLAP ADDITIONAL SILT FENCE FABRIC A MINIMUM OF 12-INCHES.
5. REMOVE SEDIMENT WHEN IT REACHES ONE-THIRD THE HEIGHT OF SILT CONTROL GATE AND SILT FENCE FABRIC SHALL BE REPLACED WHEN DAMAGED OR DETERIORATED.

PAY ITEMS:

163-0501	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 1	(EA)
163-0502	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 2	(EA)
163-0503	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	(EA)
165-0085	MAINTENANCE OF SILT CONTROL GATE, TP 1	(EA)
165-0086	MAINTENANCE OF SILT CONTROL GATE, TP 2	(EA)
165-0087	MAINTENANCE OF SILT CONTROL GATE, TP 3	(EA)

BY	REVISION	DATE
GLO	ADDED PAYMENT NOTE	10-22-02
	REV. SPECIFICATION	3-21-05
	REV. LUMBER SIZES	
	REMOVE INLET SEDIMENT TRAP	
	ADD. & REV. SILT GATE NOTES	1-19-11
TPC	ADD. FABRIC & ADD. NOTES	4-22-16
DLE		

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

SILT CONTROL GATES FOR STRUCTURES TYPE - 1, 2, AND 3

NO SCALE — REV. & REDR. DEC., 2000

NUMBER D-20

GEORGIA 811 www.Georgia811.com Know what's below. Call before you dig.

MORELAND ALTOBELLI — AN ATLAS COMPANY

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Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

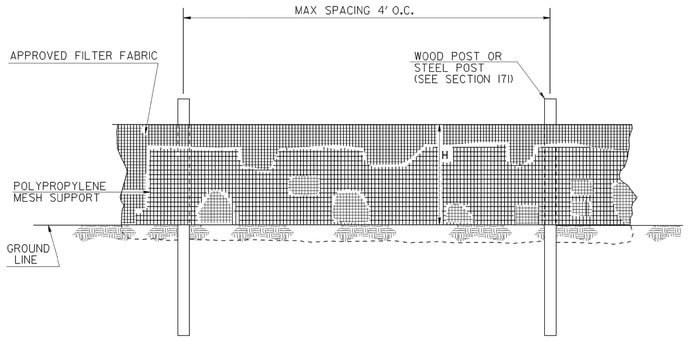
REVISION DATES

EROSION CONSTRUCTION DETAILS

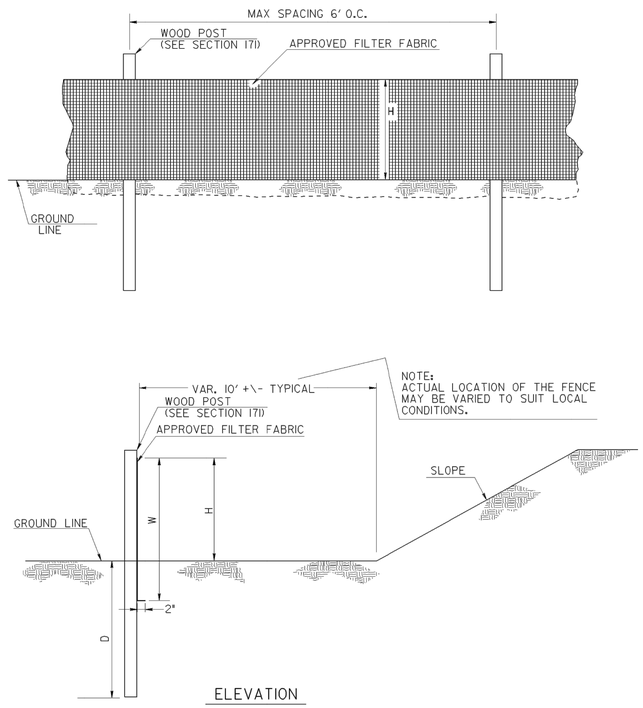
MCNUTT ROAD AND McNUTT WAY

DRAWING NUMBER 56-0001

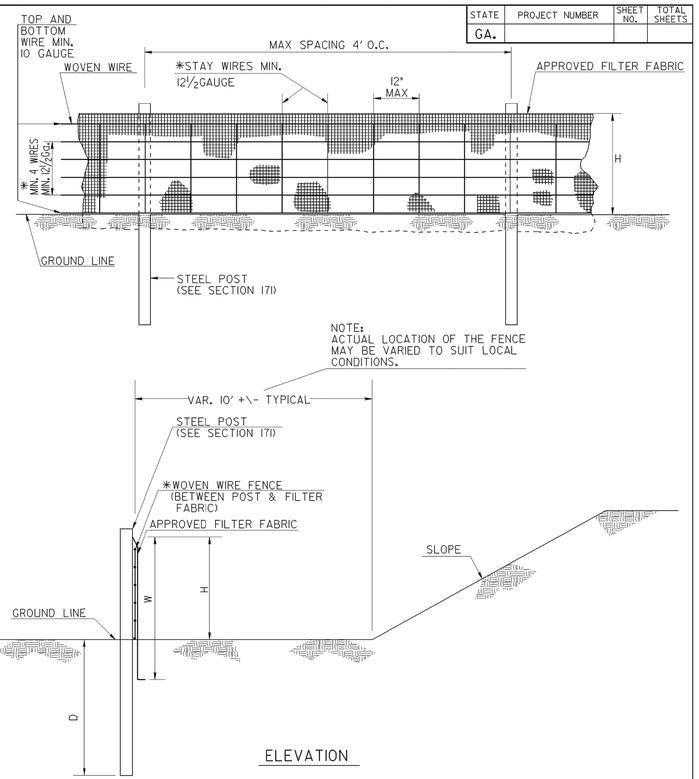
PROJECT: —



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:

1. WIRE STAPLES SHALL BE AT LEAST 17 GAUGE, WITH LEGS AT LEAST 1/2 INCHES LONG AND A CROWN AT LEAST 3/4INCHES WIDE. NAILS SHALL BE AT LEAST 14 GAUGE, 1INCH LONG , WITH BUTTON HEADS AT LEAST 3/4 INCHES WIDE.
2. 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.
3. 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 12½ GAUGE.
4. TEMPORARY SILT FENCE INSTALLATION IS DIFFERENT THAN THE SILT RETENTION BARRIER INSTALLATION.
5. SEE SECTION 171 FOR SILT FENCE SPECIFICATIONS.
6. SEE SECTION 894 FOR FENCING SPECIFICATIONS.
7. SEE QPL-36 FOR A LIST APPROVED SILT FENCE FABRIC.
8. TEMPORARY SILT FENCE SHALL NOT BE PLACED WITHIN STATE WATERS UNLESS PERMITTED.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

TEMPORARY SILT FENCE

NO SCALE — REV. AND REDRAWN JAN. 2011

DATE | REVISION | BY

NUMBER D-24A (SHEET 1 OF 4)

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DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

EROSION CONSTRUCTION DETAILS

MCNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER
56-0002

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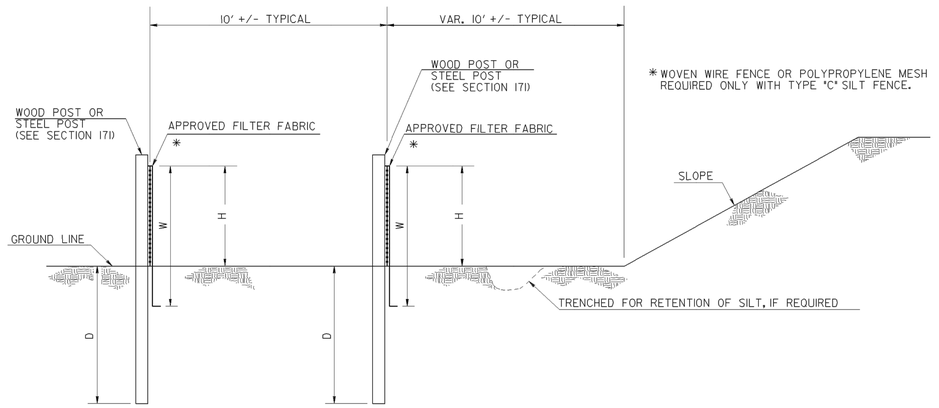
PROJECT: —

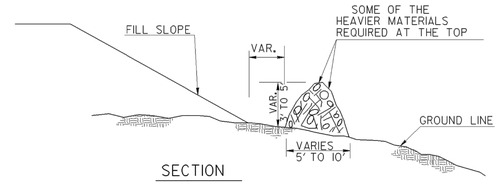


ELEVATION

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.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



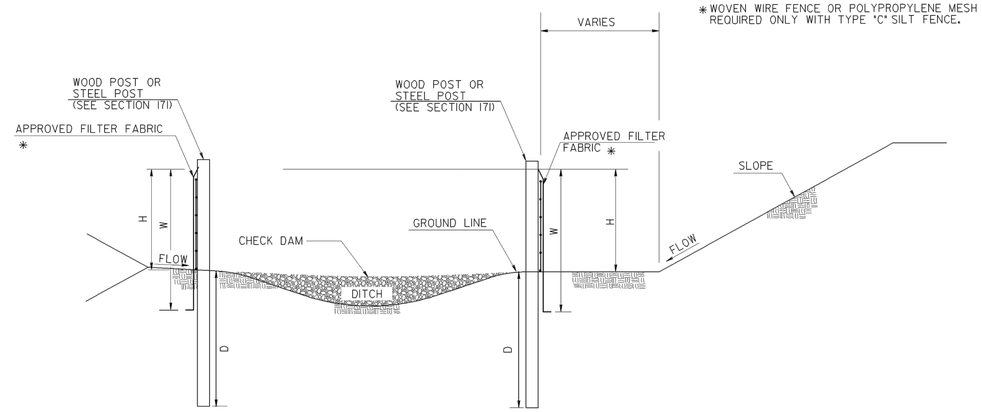
SECTION

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

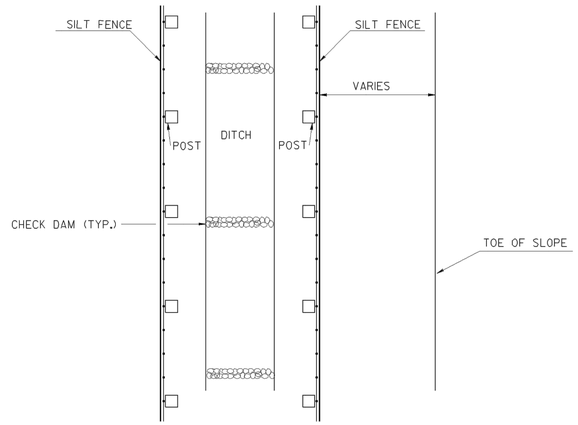
FRONT VIEW

NOTE: BRUSH BARRIER(S) WILL BE INCLUDED IN PAYMENT FOR CLEARING & GRUBBING.

BRUSH BARRIER DETAILS
(FOR USE IN RURAL AREAS)



ELEVATION



PLAN

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

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.

SILT FENCE
PERIMETER INSTALLATION ALONG DITCH SECTION

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

TEMPORARY SILT FENCE

BERM DITCH, INSTALLATION, BRUSH BARRIER

NO SCALE — REV. AND REDRAWN JAN. 2011

DATE | REVISION | BY

NUMBER D-24B (SHEET 2 OF 4)

GEORGIA811 www.Georgia811.com Know what's below. Call before you dig.

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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

EROSION CONSTRUCTION DETAILS

MCNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER
56-0003

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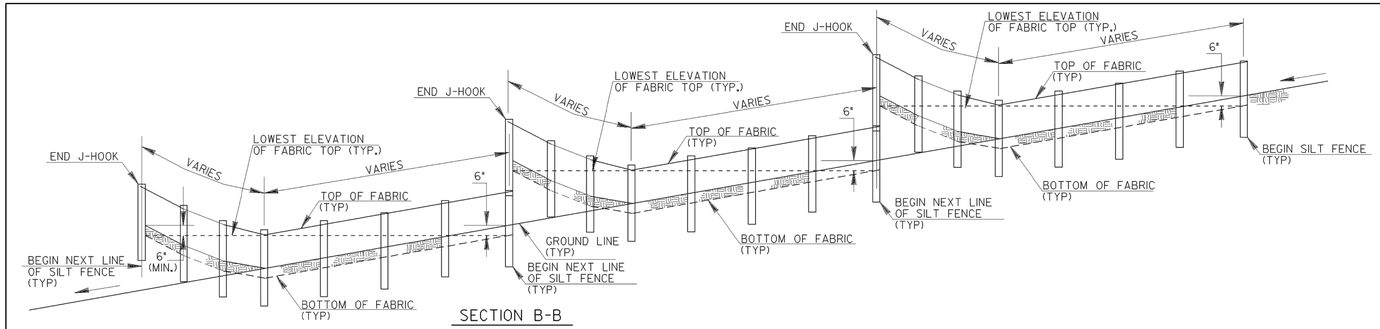
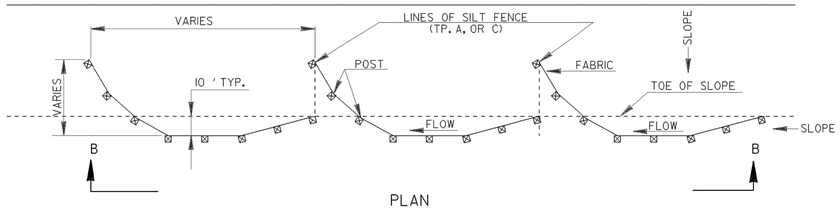
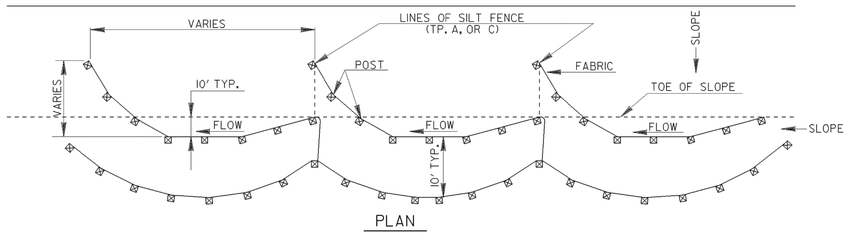


SECTION B-B



PLAN

SINGLE ROW SILT FENCE



PLAN

DOUBLE ROW SILT FENCE

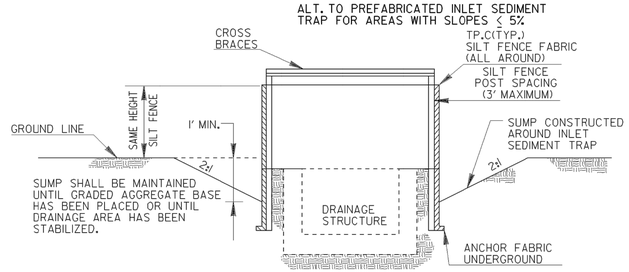
TYPICAL J HOOK SPACING		
SLOPE PERCENT	TYPE OF SILT FENCE	MINIMUM SPACING (FEET)
1% TO 2%	TYPE A	100' ±
2% TO 3%	TYPE A	50' ±
3% TO 4%	TYPE C	50' ±
4% TO 5%	TYPE C	25' ±

NOTE:

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

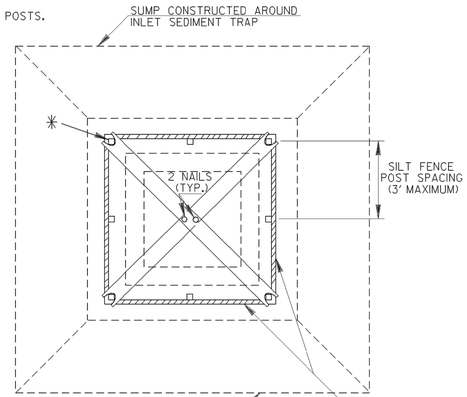
TYPICAL LOCATION AROUND DROP INLETS

ALT. TO PREFABRICATED INLET SEDIMENT TRAP FOR AREAS WITH SLOPES ≤ 5%



ELEVATION

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



PLAN

CROSS BRACES:

TWO - 2 X 4's WITH ENDS TO FIT POST, PROVIDING STURDY SUPPORT, OR AN APPROVED ALTERNATE

NOTE:
PAYMENT AS INLET SEDIMENT TRAP PER EACH.

NOTE:
SEE SEPARATE SHEET ENTITLED 'TEMPORARY SILT FENCE DETAILS' FOR SILT FENCE ERECTION DETAILS.

INLET SEDIMENT TRAP - FOR DROP INLETS

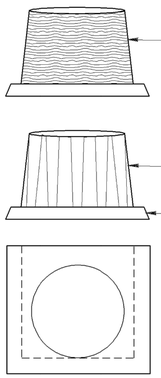
(PLASTIC ALTERNATE)

NOTE:
THE DRAINAGE AREA ENTERING THE INLET SEDIMENT TRAP SHALL BE NO GREATER THAN ONE ACRE.

TYPICAL CONSTRUCTION SEQUENCE FOR INLET SEDIMENT TRAP ALTERNATE

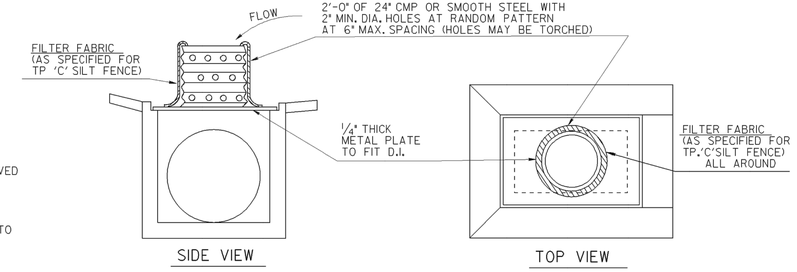
1. EXCAVATE APPROXIMATELY 4" TO 6" BELOW THE TOP OF THE INLET STRUCTURE.
2. PLACE THE FRAME ONTO THE INLET STRUCTURE, ENSURING PROPER SEATING OF FRAME TO STRUCTURE.
3. SLIDE THE FILTER OVER THE FRAME.
4. FILL THE FILTER POCKETS WITH SOIL, #57 GRAVEL OR EQUIVALENT. THE FILTER POCKETS SHOULD BE COMPLETELY FILLED TO ENSURE A GOOD SEAL BETWEEN THE GROUND AND INLET STRUCTURE.
5. 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.



SIDE VIEW

(METAL ALTERNATE)



SIDE VIEW

TOP VIEW

NOTE: WHERE INLET SEDIMENT TRAPS ARE SPECIFIED, EITHER THE PLASTIC ALTERNATE (LEFT) OR THE METAL ALTERNATE (RIGHT) MAY BE USED AS APPROVED BY THE ENGINEER.

NOTE:
INLET SEDIMENT TRAP AND INLET TO BE BUILT CONTINUOUS WITH PIPE

NOTE:
PAYMENT AS INLET SEDIMENT TRAP PER EACH

NOTE: SEE SEPARATE DETAILS FOR SILT FENCE AROUND DROP INLETS.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
TEMPORARY SILT FENCE
J-HOOK, INLET SEDIMENT TRAPS

NO SCALE — JANUARY 2011

DATE | REVISION | BY

NUMBER D-24C (SHEET 3 OF 4)

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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

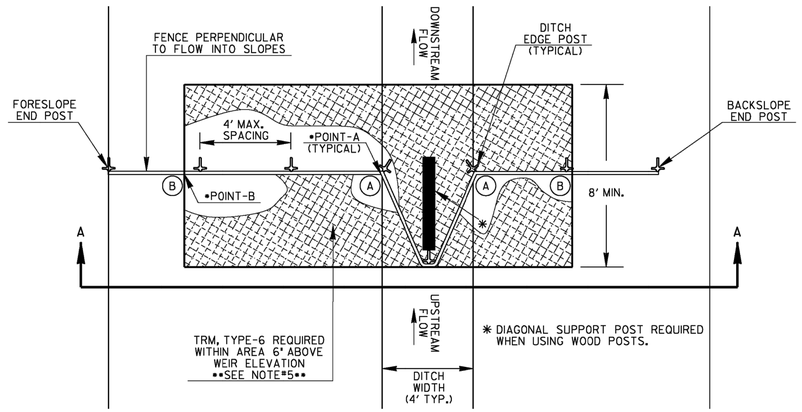
EROSION CONSTRUCTION DETAILS

MCNUTT ROAD AND McNUTT WAY

DRAWING NUMBER 56-0004

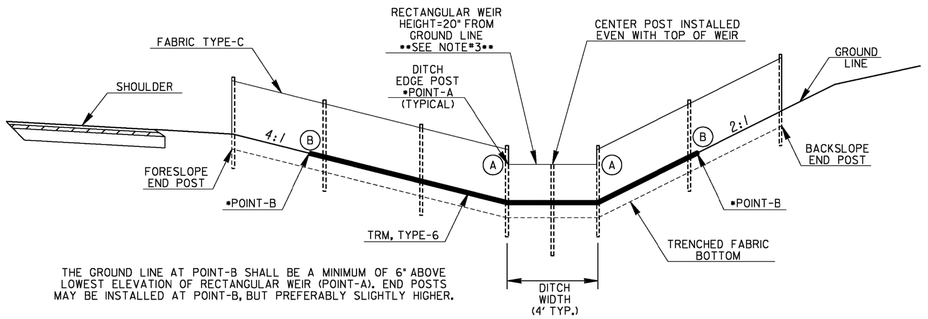
PROJECT: —

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



PLAN VIEW

TYPICAL FABRIC CHECK DAM SPACING	
GRADE OF DITCH	MINIMUM SPACING (FEET)
LESS THAN 1%	100' ±
1% TO 3%	75' ±
3% TO 6%	50' ±
6% TO 8%	25' ±

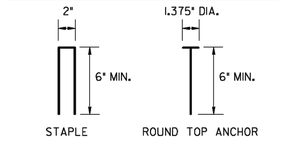


THE GROUND LINE AT POINT-B SHALL BE A MINIMUM OF 6" ABOVE LOWEST ELEVATION OF RECTANGULAR WEIR (POINT-A). END POSTS MAY BE INSTALLED AT POINT-B, BUT PREFERABLY SLIGHTLY HIGHER.

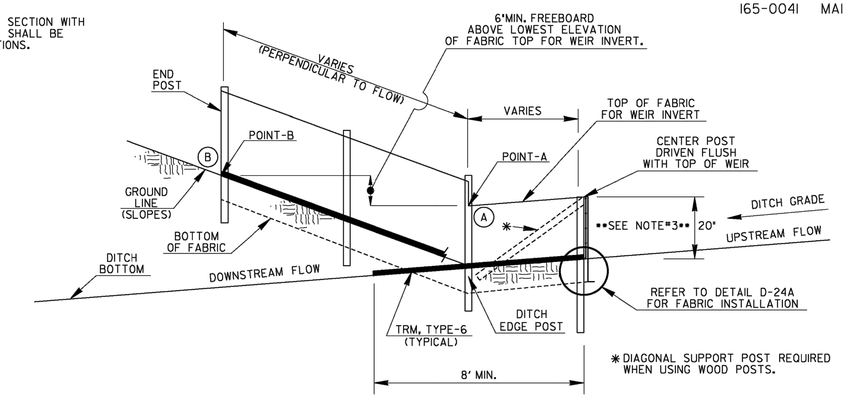
SECTION A-A

NOTE: CROSS-SECTION SHOWN IS AN EXAMPLE OF A TYPICAL CUT SECTION WITH A 4-FT FLAT BOTTOM DITCH. ACTUAL FABRIC CHECK DAMS SHALL BE INSTALLED SIMILARLY ACCORDING TO ROADWAY CROSS-SECTIONS.

TURF REINFORCEMENT MATTING ANCHOR



NOTE: TURF REINFORCEMENT MATTING SHALL BE ANCHORED WITH 8-GAUGE METAL STAPLES OR ROUND TOP ANCHORS. ANCHORS SHALL BE LONG ENOUGH TO PROVIDE SUFFICIENT GROUND PENETRATION TO RESIST PULL OUT.



NOTES:

1. FABRIC CHECK DAMS MAY BE USED FOR FLOWS UP TO 2.0-CFS. A ROCK FILTER DAM SHALL BE USED AT THE DOWNSTREAM POINT FOR FLOWS GREATER THAN 2.0-CFS.
2. FABRIC CHECK DAMS SHALL NOT BE PLACED WITHIN FLOWING STATE WATERS.
3. FABRIC CHECK DAMS MAY BE USED IN DITCHES WITH DEPTHS AT LEAST 26-IN. IF DITCH DEPTH IS LESS THAN 26-IN, THE WEIR INVERT MAY BE LOWERED SLIGHTLY IN THE FIELD TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A OR TO MATCH SPACING OF WIRE SUPPORT. THE WEIR HEIGHT SHALL BE NO LESS THAN 15-IN. THE DESIGNER SHALL CONSIDER OTHER APPROPRIATE BMPs FOR CONCENTRATED FLOW FOR DITCH DEPTHS LESS THAN 26-IN.
4. THE FOLLOWING STEPS ARE RECOMMENDED FOR PROPER FABRIC CHECK DAM INSTALLATION:
   - A) DETERMINE DITCH CENTERLINE AND USE A LINE LEVEL OR OTHER MEANS TO FIND POINT-B WITHIN THE DITCH FORESLOPE AND BACKSLOPE TO PROVIDE 6-IN MINIMUM FREEBOARD ABOVE POINT-A.
   - B) CREATE TRENCH 6-IN BELOW DITCH GRADE TO FIT LAYOUT FROM STEP-A WITH MINIMAL SOIL DISTURBANCE.
   - C) LAYOUT TURF REINFORCEMENT MATTING (TRM), TYPE-6 TO PROVIDE PROTECTION A MINIMUM LENGTH OF 8-FT DOWNSTREAM OF CENTER POST TO FUNCTION AS A SPLASH PAD TO PREVENT SCOURING. ADDITIONAL NECESSARY TRM SHALL BE OVERLAPPED 3-FT. THE WIDTH SHALL BE THE DISTANCE BETWEEN POINT-B ON THE DITCH FORESLOPE AND POINT-B ON BACKSLOPE.
   - D) INSTALL FENCE POSTS THROUGH TRM WITHIN TRENCH. CENTER POST AND POSTS WITHIN WEIR AREA SHALL BE INSTALLED FLUSH WITH WEIR. CUT TRM WITHIN TRENCH FOLLOWING CHECK DAM LAYOUT AND SAVE UPSTREAM PORTION OF TRM FOR FURTHER USE.
   - E) PROPERLY INSTALL TYPE-C SILT FENCE. TRENCH BACKFILL SHALL BE COMPACTED WITH A HAND TAMPER, JUMPING JACK COMPACTOR, OR PLATE COMPACTOR TO PREVENT UNDERMINING.
   - F) INSTALL PREVIOUSLY CUT TRM FROM STEP-D UPSTREAM AGAINST CHECK DAM. INSTALLING UPSTREAM AND DOWNSTREAM TRM ACCORDING TO DETAIL D-35 FOR THIS TEMPORARY APPLICATION IS NOT REQUIRED. HOWEVER, TRM SHALL HAVE PROPER CONTACT WITH GROUND SURFACE, ANCHORED 6-IN MAXIMUM SPACING ALONG THE EDGES, AND ADEQUATELY WITHIN THE MATTED AREA.
5. TEMPORARY INSTALLATION OF TRM WITH FABRIC CHECK DAMS SHALL BE INCLUDED IN THE LINEAR COST OF THE CONSTRUCTION, REMOVAL, AND MAINTENANCE OF EACH FABRIC CHECK DAM. NO ADDITIONAL PAYMENT WILL BE MADE.

PAY ITEMS:
163-0528 CONSTRUCT & REMOVE FABRIC CHECK DAM, TYPE-C SILT FENCE (LF)
165-0041 MAINTENANCE OF CHECK DAMS - ALL TYPES (LF)

BY	REVISION	DATE

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS
TEMPORARY SILT FENCE
FABRIC CHECK DAM

NO SCALE REV. AND REDRAWN, JULY 2015

NUMBER D-24D (SHEET 4 OF 4)

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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

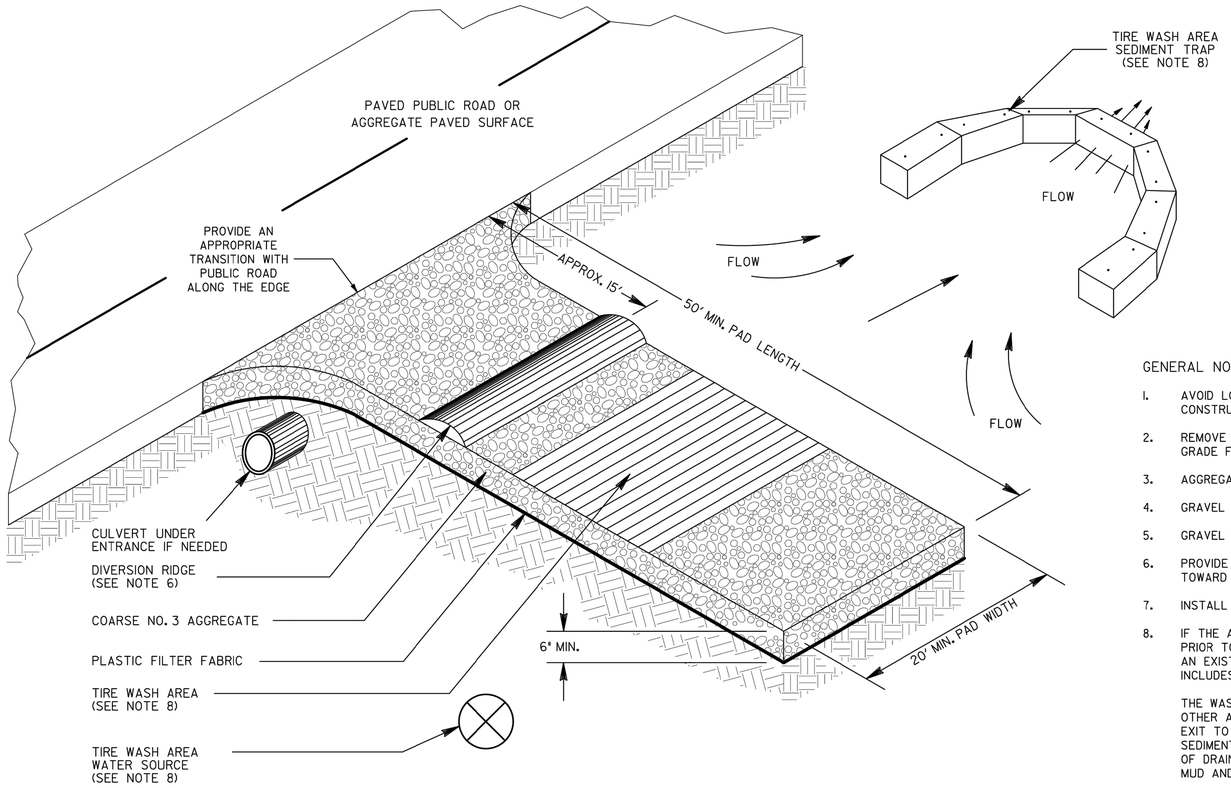
EROSION CONSTRUCTION DETAILS

MCNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER 56-0005

PROJECT: —

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



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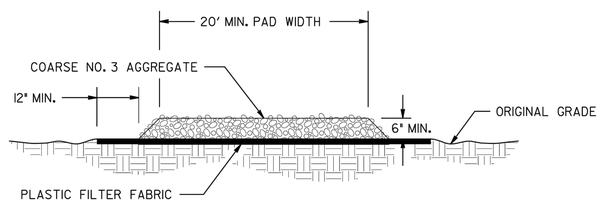

GENERAL NOTES:

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. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD DOES NOT SUFFICIENTLY REMOVE THE MUD PRIOR TO ENTERING PUBLIC ROADS, THE CONTRACTOR SHALL ADD A CONSTRUCTION EXIT TIRE WASH ASSEMBLY TO AN EXISTING CONSTRUCTION EXIT WHEN DIRECTED BY THE ENGINEER. THE CONSTRUCTION EXIT TIRE WASH ASSEMBLY INCLUDES: TIRE WASH AREA, WATER SOURCE, AND SEDIMENT TRAP OR OTHER ACCEPTABLE SEDIMENT STORAGE DEVICE.

   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.
9. AGGREGATE SHALL BE KEPT LOOSE OR SCARIFIED WHEN AGGREGATE BECOMES CONSOLIDATED.
10. 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 WILL BE PAID ON THE BASIS OF HAVING OR NOT HAVING A CONSTRUCTION EXIT TIRE WASH ASSEMBLY 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 STANDARD SPECIFICATION 163, AND SUPPLEMENTS THERETO FOR THE CONSTRUCTION AND REMOVAL OF CONSTRUCTION EXITS. SEE STANDARD SPECIFICATION 165, AND SUPPLEMENTS THERETO FOR THE MAINTENANCE OF CONSTRUCTION EXITS.

PAY ITEM:

163-0300	CONSTRUCTION EXIT	(EA)
163-0310	CONSTRUCTION EXIT TIRE WASH ASSEMBLY	(EA)
165-0101	MAINTENANCE OF CONSTRUCTION EXIT	(EA)
165-0310	MAINTENANCE OF CONSTRUCTION EXIT TIRE WASH ASSEMBLY	(EA)

BY	REVISION	DATE
DLE	REV. TIRE WASH & NOTES	04-18-18
DLE	REV. GSWCC 2016 MANUAL	04-22-16
TPC	REV. CONSTR. EXIT LABELS	01-19-11

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

CONSTRUCTION EXIT

NO SCALE — FEBRUARY 2001

DESIGNED —
DRAWN DLE
TRACED —
CHECKED —

NUMBER D-41

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MORELAND ALTOBELLI — AN ATLAS COMPANY —

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Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

EROSION CONSTRUCTION DETAILS

MCNUTT ROAD AND
McNUTT WAY

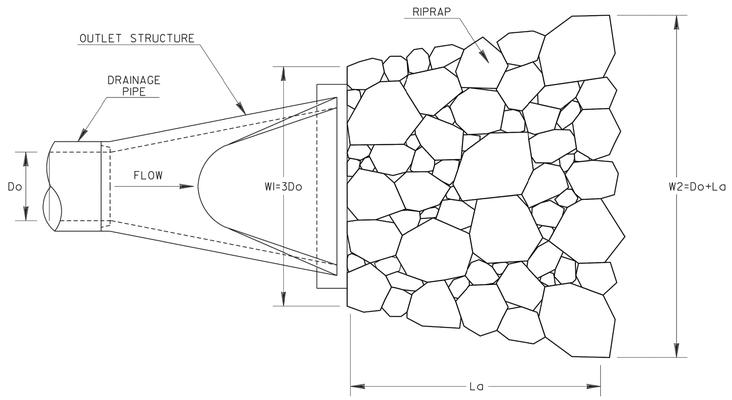
DRAWING NUMBER
56-0006

D:\Data\Projects\McNutt Road\Design\McNutt Road Erosion Control (10-2-19).dwg, 5/27/2021 4:33:52 PM

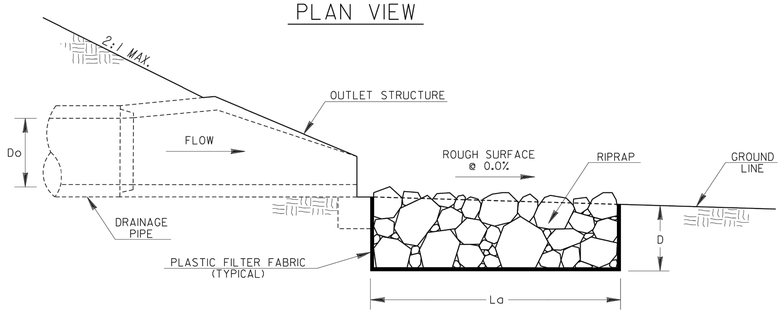
PROJECT: —

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

OUTLET TO FLAT AREA

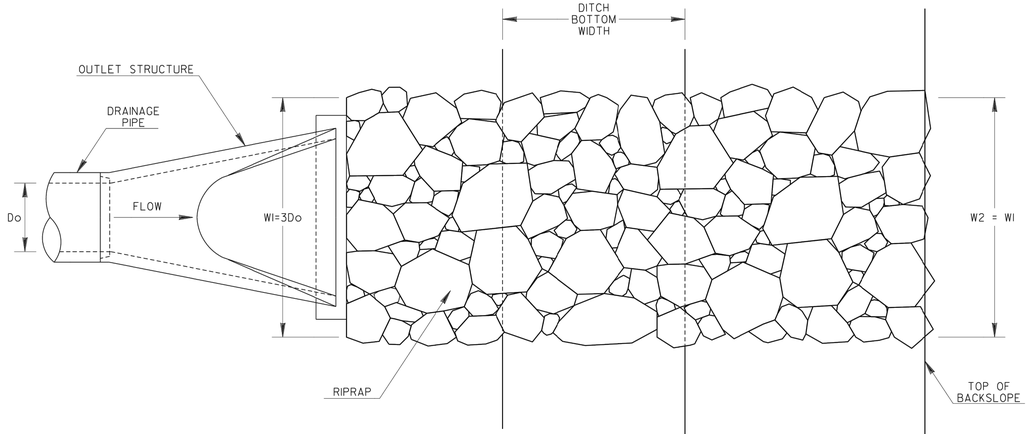


PLAN VIEW

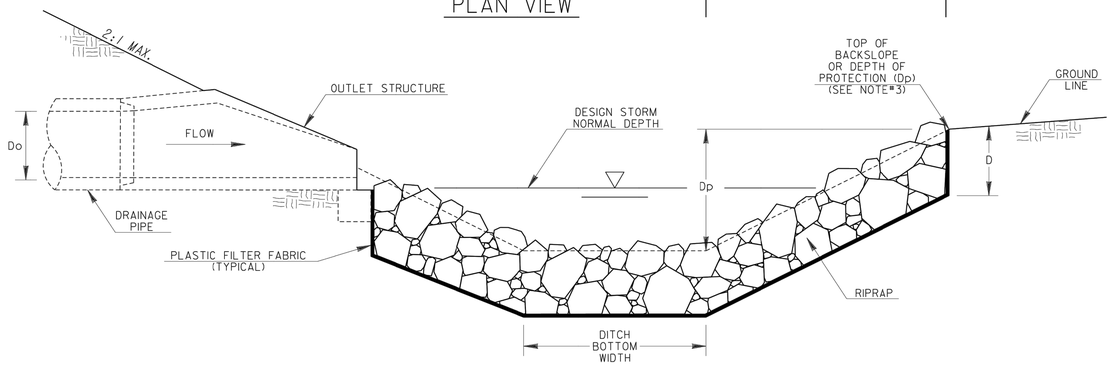


PROFILE VIEW

OUTLET PERPENDICULAR TO WELL-DEFINED CHANNEL



PLAN VIEW



PROFILE VIEW

GENERAL NOTES:

1. RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY. RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD 1120, BUT IS INSTALLED SIMILARLY FOR OTHER DRAINAGE OUTLET STRUCTURES.

2. 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 (WI), 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.

3. 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.

4. 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.

5. PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.

6. 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
WI = 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

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

RIPRAP OUTLET PROTECTION
(SHEET 1 OF 2)

NO SCALE — 4-22-2016

DATE / REVISION / BY

DESIGNED DLE
DRAWN DLE
TRACED ____
CHECKED ____

NUMBER D-55A

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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

EROSION CONSTRUCTION DETAILS

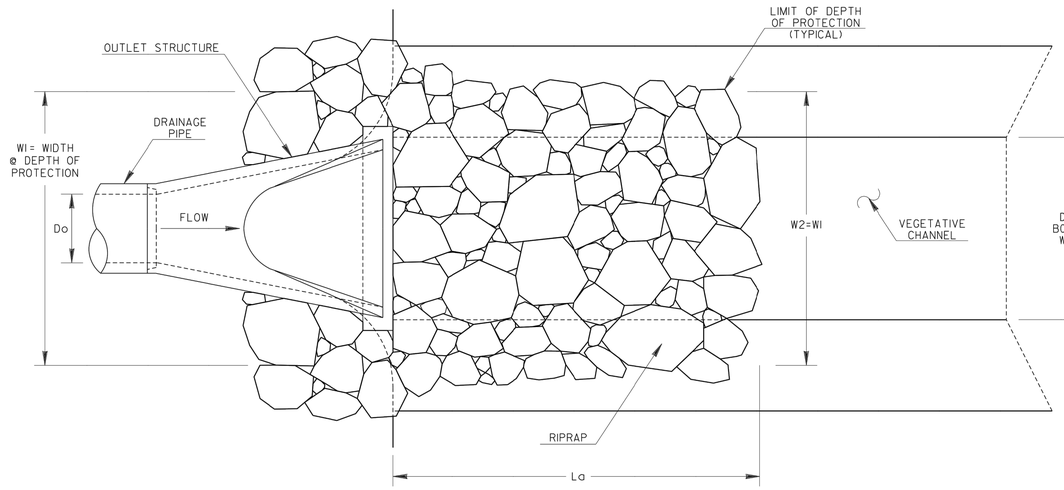
MCNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER 56-0007

PROJECT: —

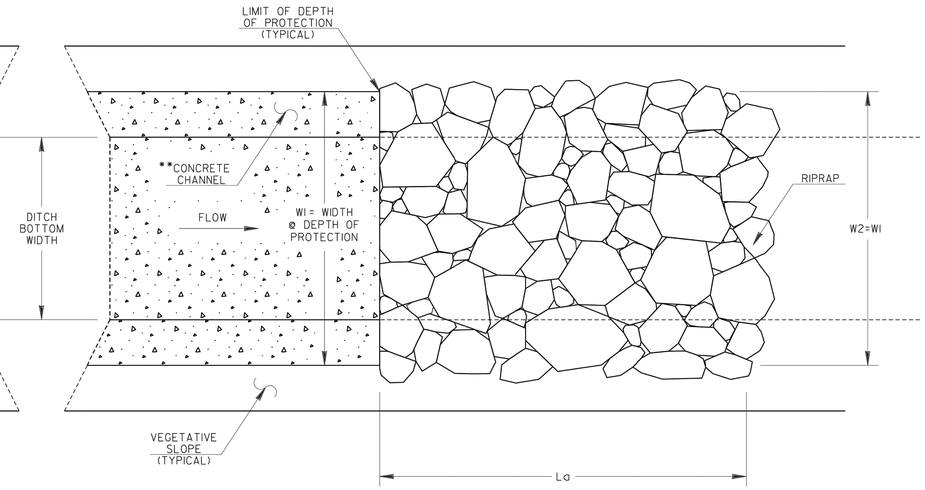
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

OUTLET PARALLEL TO WELL-DEFINED CHANNEL



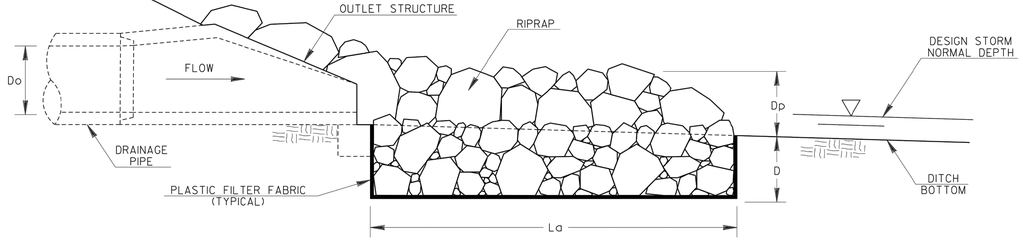
PLAN VIEW

CONCRETE CHANNEL TO RIPRAP TRANSITION

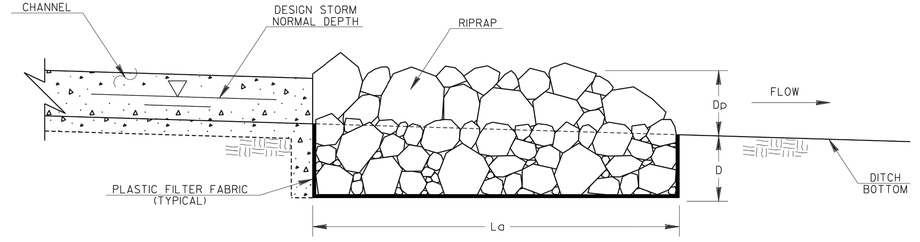


**REFER TO CONSTRUCTION DETAIL D-10 FOR CONCRETE DITCH PAVING INFORMATION

PLAN VIEW



PROFILE VIEW



PROFILE VIEW

GENERAL NOTES:

1. RIPRAP OUTLET PROTECTION SHOULD BE USED TO REDUCE A DRAINAGE STRUCTURE'S DISCHARGE VELOCITY.
   RIPRAP OUTLET PROTECTION IS SHOWN FOR GEORGIA STANDARD 1120, 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.

2. 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 (WI), 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.

3. 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.

4. 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.

5. PLASTIC FILTER FABRIC IS REQUIRED UNDERNEATH RIPRAP APRON.

6. 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
WI = APRON WIDTH UPSTREAM AT DEPTH OF PROTECTION
W2 = APRON WIDTH DOWNSTREAM AT DEPTH OF PROTECTION
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

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

RIPRAP OUTLET PROTECTION
(SHEET 2 OF 2)

NO SCALE — 4-22-2016

DATE | REVISION | BY

DESIGNED DLE
DRAWN DLE
TRACED ____
CHECKED ____

NUMBER D-55B

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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

EROSION CONSTRUCTION DETAILS

MCNUTT ROAD AND
McNUTT WAY

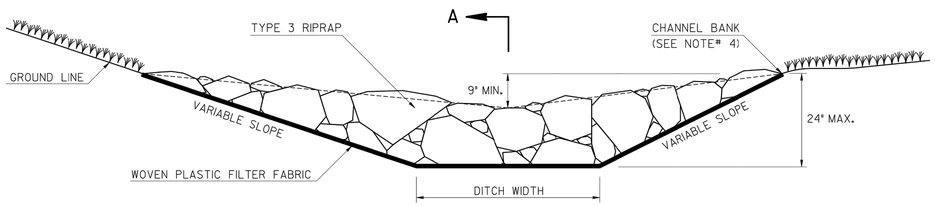
DRAWING NUMBER
56-0008

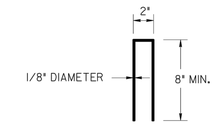
D:\Data\Projects\McNutt Road\Design\McNutt Road Erosion Control (10-2-19).dwg, 5/27/2021 4:34:02 PM

PROJECT: —

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

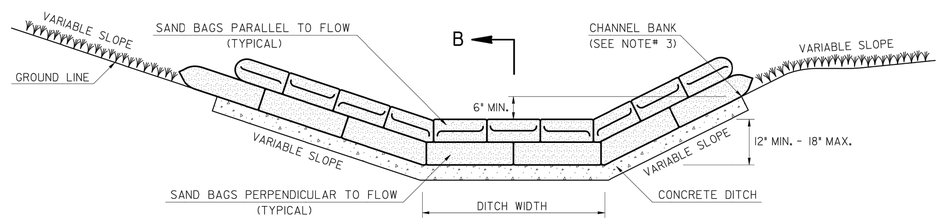
STONE CHECK DAM





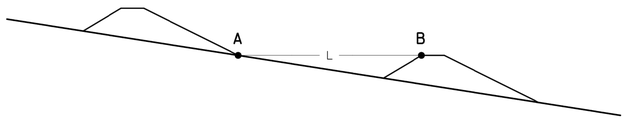
METAL FILTER FABRIC STAPLE

SAND BAG CHECK DAM



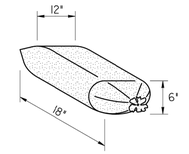
TYPICAL CHECK DAM SPACING

L = THE DISTANCE BETWEEN CHECK DAMS SUCH THAT POINTS "A" AND "B" ARE OF EQUAL ELEVATION

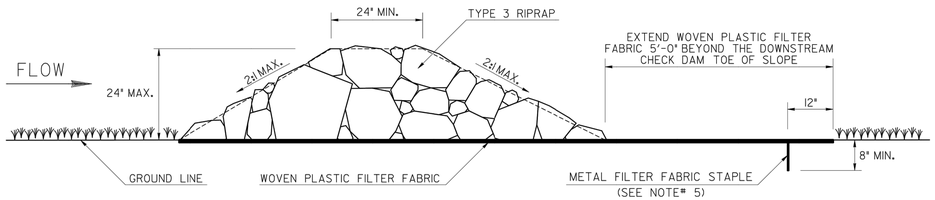


SAND BAG DIMENSIONS

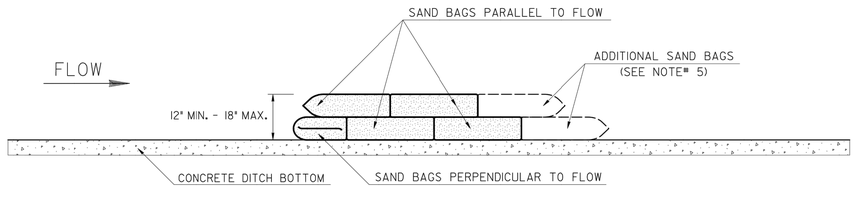
(SEE NOTE# 6)



SECTION A-A



SECTION B-B



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 SPECIFICATION165, 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)
165-0041	MAINTENANCE OF CHECK DAMS - ALL TYPES	(LF)

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAILS

STONE RIPRAP & SAND BAG TEMPORARY CHECK DAMS

NO SCALE

11-28-2018

DATE	REVISION	BY

DESIGNED DLE
DRAWN DLE
TRACED
CHECKED

NUMBER D-56

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	NAME	DATE
DESIGNED BY	NAA	01-24-20
DRAWN BY	NAA	01-24-20
CHECKED BY	KEQ	01-24-20

Augusta GEORGIA

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

EROSION CONSTRUCTION DETAILS

MCNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER
56-0009

D:\Data\Projects\McNutt Road\Design\McNutt Road Erosion Control (10-2-19).dwg, 5/27/2021 4:34:07 PM

Augusta | PROJECT

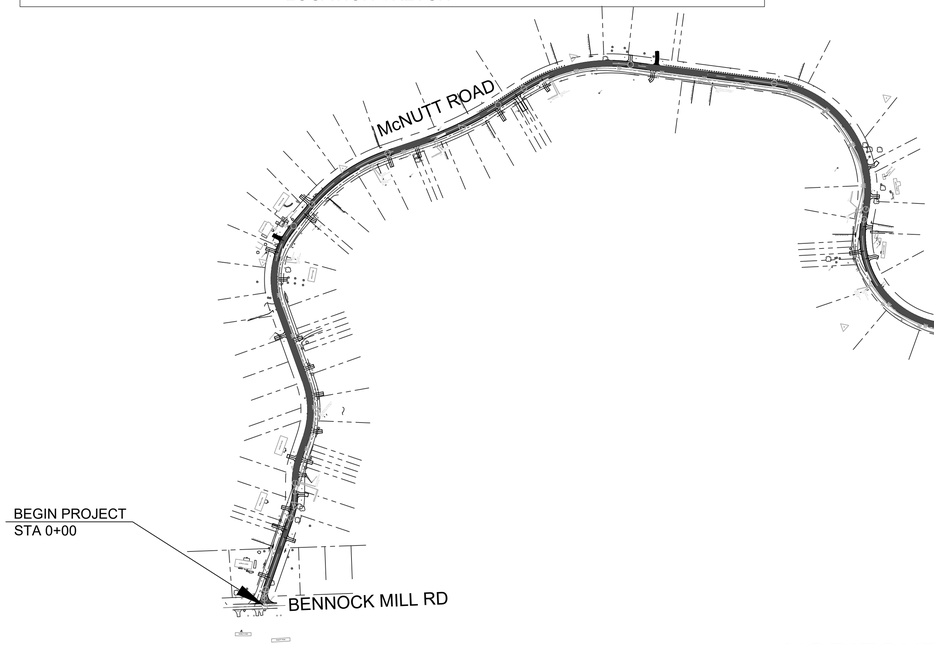
PLAN AND PROFILE OF PROPOSED

GRADING, DRAINAGE AND PAVING OF McNUTT ROAD AND McNUTT WAY

CITY OF AUGUSTA
RICHMOND COUNTY, GEORGIA

Missing or invalid reference
File: .\Images-References\Location.pdf
Sheet: 1

LOCATION SKETCH



HORIZONTAL DESIGN SPEED: 25 MPH

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.

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..\Images-References\thCTAAGU98.bmp

LENGTH OF ROAD	1.96
	MILES

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AN ATLAS COMPANY
2450 Commerce Avenue
Suite 100
Duluth, Georgia 30096
Telephone (770) 263-5945

PLANS COMPLETED --	
REVISIONS	

THIS PROJECT IS 100% WITHIN RICHMOND COUNTY AND IS 100% IN CONG. DIST. 12.

DRAWING NO.
01-0001

PROJECT: —

DRAWING NO.	DESCRIPTION	LATEST REVISION
01-0001	COVER SHEET	
02-0001	INDEX TO DRAWINGS	
03-0001	REVISION SUMMARY	
04-0001	GENERAL NOTES	
05-0001 TO 05-0002	TYPICAL SECTIONS	
06-0001	SUMMARY OF QUANTITIES	
11-0001	CONSTRUCTION LAYOUT	
13-0001 TO 13-0013	MAINLINE PLAN & PROFILE SHEETS	
17-0001 TO 17-0011	DRIVEWAY PROFILES	
21-0001	DRAINAGE AREA MAP	
22-0001 TO 22-0003	DRAINAGE PROFILES	
23-0001 TO 23-0040	CROSS SECTIONS	
26-0001 TO 26-0007	SIGNING AND MARKING PLANS AND DETAILS	
	CONSTRUCTION DETAILS	
40-0001	A1 DRIVEWAYS WITH TAPERED ENTRANCES CONCRETE VALLEY GUTTERS	
40-0002	F1 WOVEN WIRE FENCE	
40-0003	F2 GATE DETAILS FOR CHAIN LINK & WOVEN WIRE FENCE	
40-0004	G11 GUARDRAIL IMPACT ATTENUATOR UNITS	
40-0005	P-7 PAVEMENT EDGE TREATMENT ASPHALT AND CONCRETE PAVEMENT	
40-0006	S-7 SERRATED SLOPE DETAIL / BENCHING DETAIL	
40-0007	T-1 SIGN PLATES	
40-0008	T-2 DETAILS FOR TYPICAL FRAMING	
	GEORGIA STANDARDS	
41-0001 TO 41-0003	1030 D CONCRETE AND METAL PIPE CULVERTS (3 SHEETS)	
41-0004	1120 FLARED END SECTIONS FOR PIPES	
41-0005 TO 41-0007	1122 SAFETY END SECTIONS (3 SHEETS)	
41-0008	4360 REFLECTORIZED GUARDRAIL WASHERS AND ANCHORAGE NOSE STRIPING	
41-0009	4380 "W" BEAM GUARDRAIL 31 INCH GUARDRAIL HEIGHT	
41-0010	4381 POST AND OFFSET BLOCKS FOR "W"	
41-0011	4383 GUARDRAIL ANCHORAGE TYPE 1 31 INCH GUARDRAIL HEIGHT	
41-0012	4384 TYPE 12 31 INCH GUARDRAIL HEIGHT	
41-0013	4388 GUARDRAIL LOCATION DETAILS FOR UNDIVIDED HIGHWAYS AND ROADS	

DRAWING NO.	DESCRIPTION	LATEST REVISION
	EROSION CONTROL	
50-0001	EROSION CONTROL COVER SHEET	
51-0001	ES&PC GENERAL NOTES	
52-0001	EC-L1 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 1 OF 7)	
52-0002	EC-L2 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 2 OF 7)	
52-0003	EC-L3 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 3 OF 7)	
52-0004	EC-L4 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 4 OF 7)	
52-0005	EC-L5 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 5 OF 7)	
52-0006	EC-L6 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 6 OF 7)	
52-0007	EC-L7 EROSION CONTROL LEGEND AND UNIFORM CODE SHEET (SHEET 7 OF 7)	
53-0001	EROSION CONTROL DRAINAGE AREA MAP	
54-0001 TO 54-0039	BMP LOCATION DETAILS	
55-0001	EROSION CONTROL WATERSHED MAP AND SITE MONITORING LOCATION	
	EROSION CONTROL CONSTRUCTION DETAILS	
56-0002	D-20 SILT CONTROL GATES FOR STRUCTURES TYPE - 1,2, AND 3	
56-0003	D-24A TEMPORARY SILT FENCE (SHEET 1 OF 4)	
56-0004	D-24B TEMPORARY SILT FENCE BERM DITCH, INSTALLATION, BRUSH BARRIER (SHEET 2 OF 4)	
56-0005	D-24C TEMPORARY SILT FENCE J HOOKS, INLET SEDIMENT TRAPS (SHEET 3 OF 4)	
56-0006	D-24D TEMPORARY SILT FENCE FABRIC CHECK DAM (4 OF 4)	
56-0007	D-41 CONSTRUCTION EXIT	
56-0008	D-55A RIP RAP OUTLET PROTECTION (SHEET 1 OF 2)	
56-0009	D-55B RIP RAP OUTLET PROTECTION (SHEET 2 OF 2)	
56-0010	D-56 STONE RIP RAP AND SAND BAG TEMPORARY CHECK DAMS	
60-0001 TO 60-0013	RIGHT-OF-WAY PLANS	

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MORELAND ALTOBELLI — AN ATLAS COMPANY —

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	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

INDEX TO DRAWINGS

McNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER

02-0001

PROJECT: —

DATE	SHEET NO.	REVISION

DATE	SHEET NO.	REVISION

.\XREF\GA811newlogo.jpg

MORELAND ALTOBELLI
— AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

REVISION SUMMARY

McNUTT ROAD AND
McNUTT WAY

DRAWING NUMBER

03-0001

PROJECT: —

GENERAL NOTES - STANDARD SIGNS

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

2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE OFFICE OF TRAFFIC OPERATIONS.

3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY,

4a. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON INTERSTATE HIGHWAYS SHALL BE 32 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), UNLESS SPECIFIED OTHERWISE IN THE PLANS. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON RAMPS SHALL BE 2 FEET FROM THE NORMAL EDGE OF PAVED SHOULDER, OR EDGE OF GRADED SHOULDER WHEN PRESENT.

4b. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).

4c. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS MOUNTED BEHIND GUARD RAIL SHALL BE 6 FEET FROM THE FACE OF THE GUARD RAIL TO THE NEARER EDGE OF THE SIGN(S).

5. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH x INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE… INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.

6. EACH 42 OR 48 INCH WIDE x 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH x INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.

7. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS.

8. TYPE 9 (HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.

9. TYPE 11 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3P, R5-1, R5-1A, R5-1B).

10. TYPE 9 (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS, BICYCLE CROSSING (W11-1) SIGNS, AND PEDESTRIAN CROSSING (W11-2 AND W11A-2) SIGNS. SIGNS WITHIN THE SAME ASSEMBLY AS THE SCHOOL ZONE SIGNS SPECIFICALLY LISTED ABOVE AND ALL REGULATORY SIGNS PLACED AS PART OF THE SCHOOL ZONE SIGNING SHALL HAVE TYPE IX (VERY HIGH INTENSITY) REFLECTIVE SHEETING BACKGROUNDS OF THE APPROPRIATE COLOR.

11. TYPE 9 (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.

12. A INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.

13. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL…INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.

14. INTERSTATE SHIELDS SHALL CONTAIN THE WORD GEORGIA. ALL INTERSTATE, U.S., AND GEORGIA SHIELDS REQUIRING ALT, BUS, CONN, LOOP, OR SPUR SHALL USE 4 INCH SERIES "D" LETTERS. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, FOR DETAILS.

15. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.

16. REFER TO PLAN SHEETS FOR LOCATION OF THE DISTRICT ENGINEERS OFFICE TO BE SHOWN ON ALL R552-1 (LIMITED ACCESS) SIGNS IN THIS PROJECT, IF ANY.

17. THE CONTRACTOR WILL, AS REQUESTED BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

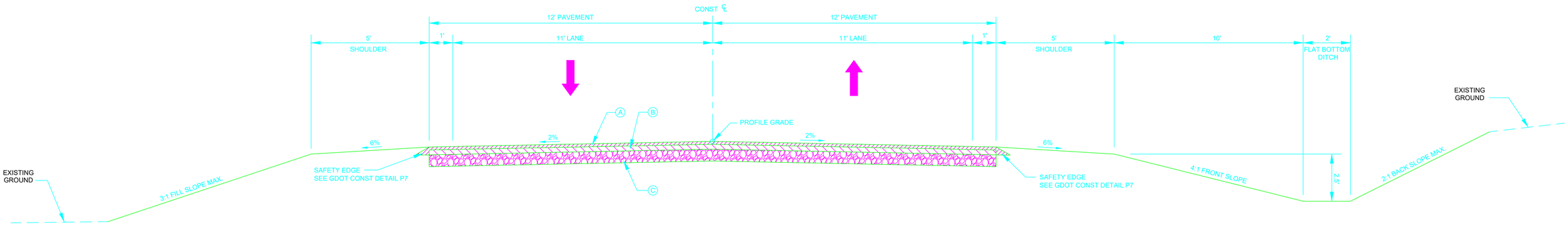
GENERAL NOTES

McNUTT ROAD AND McNUTT WAY

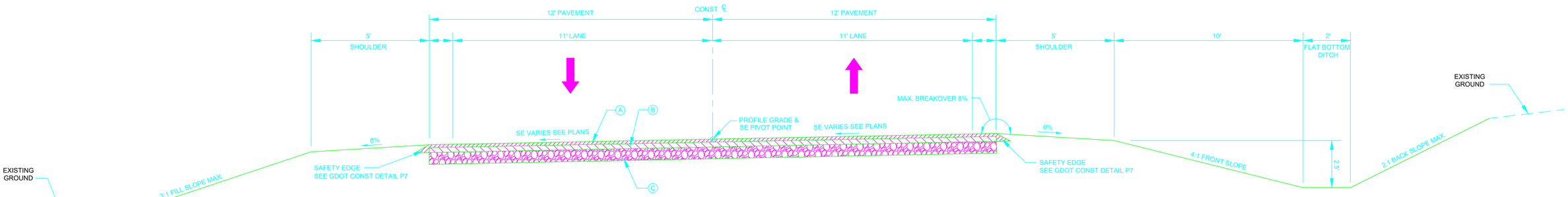
DRAWING NUMBER

04-0001

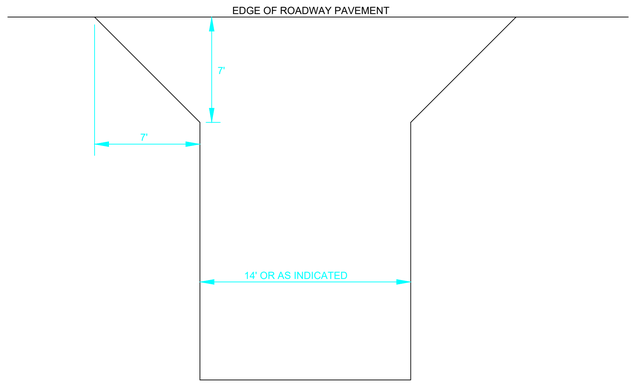
PROJECT: —



TYPICAL SECTION NO. 1
TANGENT SECTION
McNUTT ROAD & McNUTT WAY



TYPICAL SECTION NO. 2
SUPERELEVATED SECTION
McNUTT ROAD & McNUTT WAY
(SEE CONSTRUCTION PLANS FOR S.E.)



TYPICAL DRIVEWAY PLAN

Ⓐ RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2, INCL MITUM MATL & H LIME, 165 lbs / sy

Ⓑ RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR GP 2, INCL MITUM MATL & H LIME, 220 lbs / sy

Ⓒ GRADED AGGREGATE BASE COURSE 6", INCL MATL

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

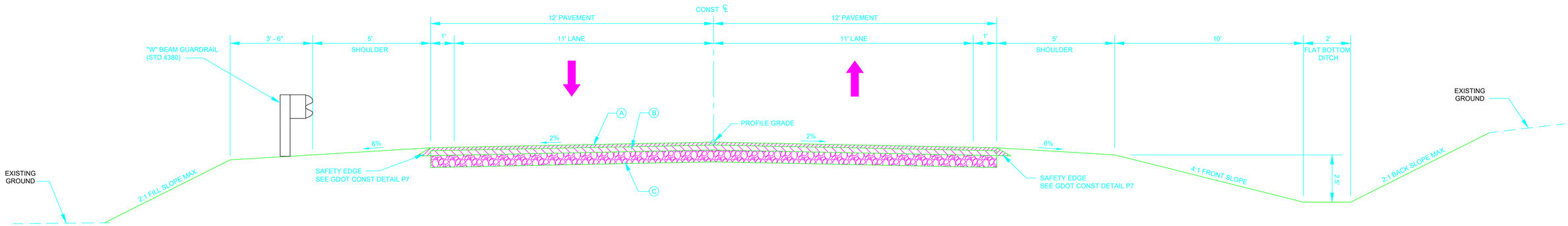
TYPICAL SECTIONS

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER

05-0001

PROJECT: —



TYPICAL SECTION NO. 3
GUARDRAIL SECTION
McNUTT ROAD
(STA 26+00 TO 29+50)
(STA 34+25 TO 39+50)
(STA 58+50 TO 60+75)
(STA 66+00 TO 69+50)
(STA 73+50 TO 74+50)
(STA 82+60 TO 86+50)

(A) RECYCLED ASPH CONC 9.5 MM SUPERPAVE, GP 2, INCL MITUM MATL & H LIME, 165 lbs / sy

(B) RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 2, INCL MITUM MATL & H LIME, 220 lbs / sy

(C) GRADED AGGREGATE BASE COURSE 6", INCL MATL

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

TYPICAL SECTIONS

McNUTT ROAD

DRAWING NUMBER

05-0002

PROJECT: —

PAVEMENT QUANTITIES

LOCATION	SIDE	310-1101 GRADED AGGR BASE CRS, INCL MATL	402-3129 RECYC ASPH CONC 9.5mm, GP 2 ONLY INCL BM & HL	402-3190 RECYC ASPH CONC 19mm GP 1 OR 2 INCL BM & HL	413-0750 TACK COAT	CONCRETE DRIVEWAY 6" THICK
		TN	TN	TN	GL	SY
McNutt Road						
Paving Items						
Roadway						
0+00 to 103+60		9630	2280	3040	1122	
Driveways						
1+23	LT	16	4		2	
3+02	RT	22	5		3	
3+35	LT	28	7		3	
4+23	LT	21	5		3	
4+90	RT	24	6		3	
5+74	RT	18	5		2	
6+38	LT	21	5		3	
6+41	RT	26	6		3	
7+69	RT	27	6		3	
9+11	RT	26	6		3	
10+23	RT	24	6		3	
11+51	RT	21	5		3	
11+87	LT	21	5		3	
14+24	RT	24	6		3	
15+38	LT	24	6		3	
15+92	LT					65
17+36	RT	26	6		3	
17+82	LT	27	6		3	
21+73	RT	26	6		3	
22+96	RT	26	6		3	
26+70	RT	32	8		4	
27+66	RT	62	15		7	
28+95	RT	26	6		3	
32+72	LT	16	4		2	
33+73	RT	27	7		3	
33+85	LT					96
44+38	LT	26	6		3	
45+58	LT	19	5		2	
46+88	LT	16	4		2	
47+91	RT	26	6		3	
48+25	LT	23	6		3	
56+90	LT					81
66+98	RT	19	5		2	
73+18	RT					80
77+11	RT					80
82+15	LT					94
82+45	RT	26	6		3	
83+56	LT					111
90+60	LT	42	10		5	
93+35	RT	26	6		3	
94+16	RT	26	6		3	
95+47	LT	22	5		3	
96+39	LT	21	5		3	
99+44	LT	21	5		3	
100+03	LT	24	6		3	
101+00	LT	19	5		2	
101+55	RT	26	6		3	
102+18	RT	24	6		3	
102+24	LT	21	5			
SUBTOTALS		10668	2530	3040	1245	607
McNutt Way						
Paving Items						
Roadway						
0+00 to 14+31		1369	332	456	332	
Driveways						
0+67	LT	44	11		5	
1+13	RT	23	6		3	
1+68	LT	26	6		3	
3+13		27	6		3	
3+92	LT	26	6		3	
4+86	RT	21	5		3	
5+86	RT	21	5		3	
7+61	RT	32	8		4	
7+90	LT	21	5		3	
9+20	RT	24	6		3	
10+91	LT	24	6		3	
13+21	RT					80
13+91	LT					88
SUBTOTALS		1658	402	456	368	168
TOTALS		12326	2932	3496	1613	775

DRAINAGE QUANTITIES

DRAINAGE STRUCTURE NUMBER OR STATION	SIDE	550-1180 STORM DRAIN PIPE, 18 IN	550-1240 STORM DRAIN PIPE, 24 IN	STORM DRAIN PIPE, 30 IN	STORM DRAIN PIPE, 36 IN	550-2180 SIDE DRAIN PIPE, 18 IN	550-2240 SIDE DRAIN PIPE, 24 IN	550-3618 SAFETY SLOPE END SECTION, 18 IN ST DR	SAFETY SLOPE END SECTION, 24 IN ST DR	550-4218 FLARED END SECTION, 18 IN STORM DRAIN	550-4224 FLARED END SECTION, 24 IN STORM DRAIN	FLARED END SECTION 30 IN, STORM DRAIN	FLARED END SECTION 36 IN, STORM DRAIN
		LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA
A1 - A2				48								2	
B1 - B2		52								2			
C1 - C2		56								2			
D1 - D2				56								2	
E1 - E2		44								2			
F1 - F2					70								2
G1 - G2		44								2			
McNutt Road													
1+23	LT					36		2					
3+02	RT					36		2					
3+35						36		2					
4+23	LT					36		2					
4+90	RT					36		2					
5+74	RT					36		2					
6+38	LT					36		2					
6+41	RT					36		2					
7+69	RT					36		2					
9+11	RT					36		2					
10+23	RT					36		2					
11+51	RT					36		2					
11+87	LT					36		2					
14+24	RT					36		2					
15+38	LT					36		2					
15+92	LT					36		2					
17+36	RT					36		2					
21+73	RT					36		2					
22+96	RT					36		2					
26+70	RT					36		2					
27+66	RT					44		2					
28+95	RT					36		2					
32+72	LT					36		2					
33+73	RT					36		2					
33+85	LT					36		2					
44+38	LT					36		2					
45+58	LT					36		2					
47+91	RT					36		2					
48+25	LT					36		2					
56+90	LT					36		2					
66+98	RT					36		2					
73+18	RT					36		2					
77+11	RT					36		2					
82+15	LT					36		2					
82+45	RT					36		2					
90+60	LT					36		2					
93+35	RT						36		2				
94+16	RT						36		2				
95+47	LT					36		2					
66+39	LT					36		2					
99+44	LT					36		2					
100+03	LT					36		2					
101+00	LT					36		2					
101+55	RT					36		2					
102+18	RT					36		2					
102+24	LT					36		2					
McNutt Way													
0+67	LT					36		2					
1+13	RT					36		2					
1+68	LT					36		2					
3+13	RT					36		2					
3+92	LT					36		2					
4+86	RT					36		2					
5+86	RT					36		2					
6+36	RT					36		2					
7+61	RT					36		2					
7+90	LT					36		2					
9+20	RT					36		2					
12+21	RT					36		2					
13+91	LT					36		2					
TOTALS		196	0	104	70	2060	72	114	4	8	0	4	2

GUARDRAIL QUANTITIES

LOCATION	SIDE	641-1200 GUARDRAIL TP W, 31 IN HEIGHT	641-5001 GUARDRAIL ANCHOR, TP 1, 31 IN HEIGHT	641-5015 GUARDRAIL ANCHOR, TP 12A, 31 IN HEIGHT	641-5016 GUARDRAIL AT TURNOUT
		LF	EA	EA	EA
STA 26+00 TO 29+50	LT	350	1	1	
STA 34+25 TO 39+50	LT	525	1	1	
STA 58+50 TO 60+75	LT	225	1	1	
STA 66+00 TO 69+50	LT	350	1	1	
STA 73+50 TO 74+50	LT	100	1	1	
STA 82+60 TO 86+50	LT	390	1	1	
STA 83+56	LT				1
TOTALS		1940	6	6	1

EROSION CONTROL QUANTITIES

LOCATION	150-1000 TRAFFIC CONTROL	163-0232 TEMPORARY GRASSING	163-0240 MULCH	163-0300 CONSTRUCTION EXIT	163-0501 SILT CONTROL GATE, TP 1	163-0527 RIP RAP CHECK DAMS	163-0528 FABRIC CHECK DAMS	165-0030 MAINT OF SILT FENCE, TP C	165-0041 MAINT OF CHECK DAMS - ALL TYPES	165-0085 MAINT OF SILT CONTROL GATE, TP 1	603-2181 STN DUMPED RIP RAP TP 3 18 IN	603-7000 PLASTIC FILTER FABRIC	167-1000 WATER QUALITY MONITORING SAMPLING	167-1500 WATER QUALITY INSPECTIONS	171-0030 TEMP SILT FENCE, TP C	700-6910 PERMANENT GRASSING	700-7000 AG LIME	700-8000 FERTILIZER MIXED GRADE	700-8100 FERTILIZER NITROGEN CONTENT	711-0100 TURF REINF MAT, TP 1
	LS	AC	TN	EA	EA	EA	LF	LF	LF	EA	SY	SY	EA	MO	LF	AC	TN	TN	LB	SY
McNutt Road and McNutt Way		23	138	2	5	235	107	26444	342	5	330	330	2	12	26444	23	23	14	0.6	
TOTALS	0	23	138	2	5	235	107	26444	342	5	330	330	2	12	26444	23	23	14	0.6	0

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

SUMMARY OF QUANTITIES

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER

06-0001

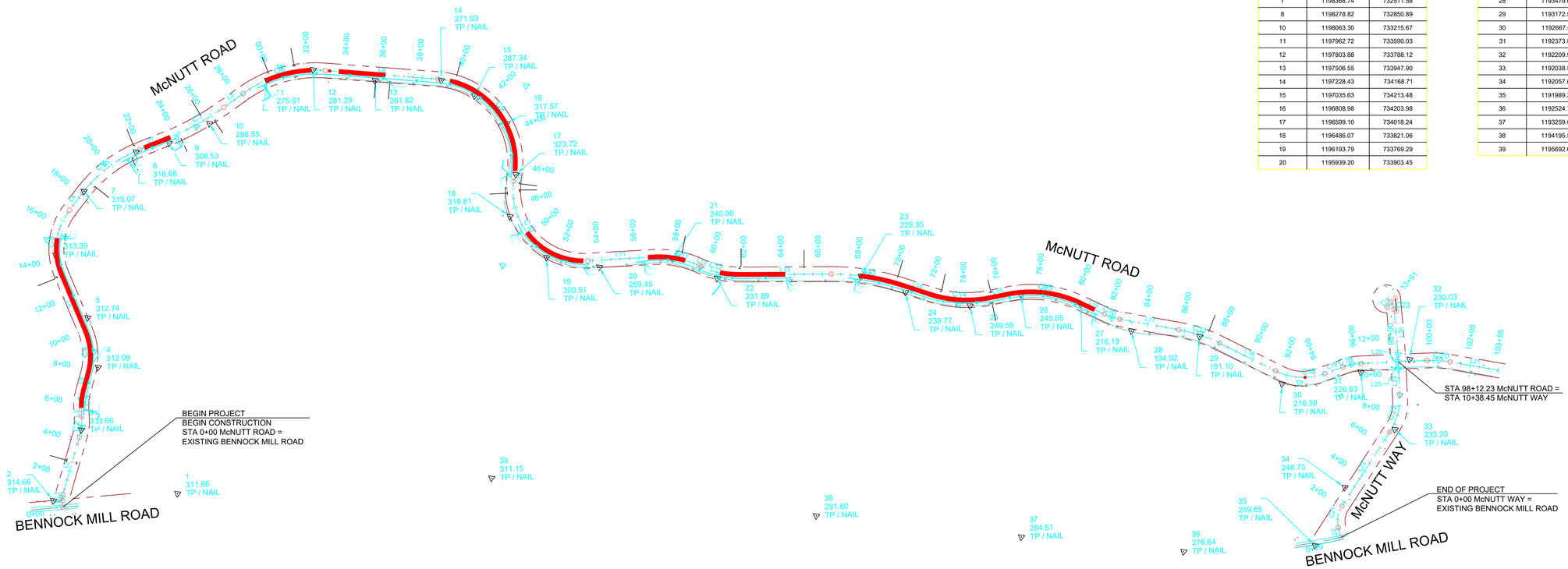
PROJECT: —

TRAVERSE POINT TABLE

Point #	Northing	Easting
1	1196967.81	731544.59
9	1198168.81	732999.05
2	1197468.29	731102.23
3	1197585.19	731494.00
4	1197723.34	731814.87
5	1197932.08	731989.31
6	1198275.16	732147.02
7	1198368.74	732511.58
8	1198278.82	732850.89
10	1198063.30	733215.67
11	1197962.72	733590.03
12	1197803.88	733788.12
13	1197506.55	733947.90
14	1197228.43	734168.71
15	1197035.63	734213.48
16	1196808.98	734203.98
17	1196599.10	734018.24
18	1196486.07	733821.06
19	1196193.79	733769.29
20	1195939.20	733903.45

TRAVERSE POINT TABLE

Point #	Northing	Easting
21	1195656.96	734183.71
22	1195403.92	734247.92
23	1194802.64	734732.67
24	1194562.44	734815.73
25	1194244.90	734971.99
26	1194067.37	735190.00
27	1193781.05	735347.12
28	1193479.69	735402.08
29	1193172.53	735604.40
30	1192667.01	735678.30
31	1192373.85	735990.29
32	1192209.93	736205.91
33	1192038.53	735860.91
34	1192057.65	735449.53
35	1191989.28	735104.57
36	1192524.74	734642.15
37	1193259.00	734164.59
38	1194195.50	733572.98
39	1195692.64	732653.45



HORIZONTAL DESIGN SPEED: 25 MPH

LINE TABLE: McNUTT ROAD

LINE #	LENGTH	DIRECTION	BEGIN STA	END STA	BEGIN NORTH	BEGIN EAST	END NORTH	END EAST
L1	33.32	N46°45'54"E	0+00.00	0+33.32	1197407.00	731106.09	1197429.83	731130.37
L2	317.92	N67°55'22"E	0+70.25	3+88.17	1197449.64	731161.28	1197569.13	731455.90
L3	35.56	N48°42'18"E	5+01.88	5+37.44	1197628.58	731552.20	1197652.04	731578.92
L4	91.89	N67°12'02"E	6+46.87	7+38.76	1197709.86	731671.27	1197745.47	731755.98
L5	332.55	N29°01'04"E	9+72.37	13+04.92	1197898.58	731926.68	1198189.38	732088.00
L6	118.54	N89°12'54"E	16+67.39	17+85.93	1198367.00	732384.96	1198368.62	732503.49
L7	149.48	S59°57'13"E	21+73.37	23+22.85	1198271.94	732873.86	1198197.09	733003.25
L8	128.16	S73°48'51"E	26+80.87	28+09.04	1198056.88	733331.73	1198021.15	733454.82
L9	607.18	S33°49'35"E	32+76.64	38+83.83	1197750.68	733824.64	1197246.28	734162.64
L10	42.72	S59°13'11"W	46+14.61	46+57.33	1196609.16	734019.10	1196587.30	733982.40
L11	352.67	S41°30'22"E	53+25.37	56+78.04	1196009.00	733892.28	1195744.89	734126.00
L12	11.44	S13°40'12"E	59+30.67	59+42.11	1195523.18	734241.85	1195512.06	734244.55
L13	499.30	S38°24'50"E	61+49.41	66+48.70	1195327.26	734334.86	1194936.04	734645.09
L14	149.67	S19°57'02"E	70+41.85	71+91.52	1194594.28	734835.95	1194453.59	734887.02
L15	105.83	S49°21'49"E	75+14.93	76+20.76	1194190.47	735068.92	1194121.55	735149.24
L16	146.46	S13°08'17"E	80+12.76	81+59.23	1193791.98	735349.23	1193649.35	735382.52
L17	321.33	S28°00'51"E	82+47.24	85+68.58	1193567.18	735413.37	1193283.50	735564.29
L18	334.83	S11°48'58"E	88+00.40	91+35.23	1193066.26	735642.99	1192738.53	735711.56
L19	102.29	S58°06'02"E	94+09.08	95+11.37	1192520.14	735864.24	1192466.09	735951.08
L20	354.87	S40°48'51"E	96+13.65	99+68.52	1192399.86	736028.51	1192131.28	736260.46
L21	264.09	S28°17'32"E	100+90.91	103+55.00	1192030.68	736329.74	1191798.14	736454.91

LINE TABLE: McNUTT WAY

LINE #	LENGTH	DIRECTION	BEGIN STA	END STA	BEGIN NORTH	BEGIN EAST	END NORTH	END EAST
L22	55.17	N38°32'29"E	0+00.00	0+55.17	1191908.48	735223.30	1191951.63	735257.67
L23	475.02	N84°35'54"E	1+75.74	6+50.77	1192007.50	735360.87	1192052.21	735833.79
L27	24.21	N3°31'01"E	13+67.14	13+91.35	1192482.11	736385.03	1192506.28	736386.51

CURVE TABLE: McNUTT ROAD

CURVE #	RADIUS	LENGTH	PI STA	PI NORTH	PI EAST	DELTA	D (ARC)	T
C1	100.00	36.93	N57° 20' 38.36"E	1197442.62	731143.98	158°50'32"	57°17'45"	18.68
C2	339.00	113.71	N58° 18' 50.09"E	1197590.70	731509.08	160°46'56"	16°54'05"	57.39
C3	339.00	109.43	N57° 57' 09.89"E	1197688.47	731620.39	161°30'16"	16°54'05"	55.20
C4	350.54	233.60	N48° 06' 33.12"E	1197792.48	731867.83	141°49'03"	16°20'42"	121.33
C5	345.00	362.47	N59° 06' 59.13"E	1198364.26	732185.00	119°48'11"	16°36'27"	199.98
C6	720.00	387.44	S75° 22' 09.69"E	1198371.34	732702.01	149°10'07"	7°57'28"	198.53
C7	1480.00	358.03	S66° 53' 02.07"E	1198107.02	733158.97	166°08'23"	3°52'17"	179.89
C8	670.00	467.60	S53° 49' 12.88"E	1197953.19	733688.93	140°00'44"	8°33'06"	243.78
C9	450.00	730.78	S12° 41' 47.80"W	1196852.03	734426.83	86°57'14"	12°43'57"	474.58
C10	380.00	668.04	S8° 51' 24.39"W	1196352.54	733588.28	79°16'28"	15°04'40"	458.73
C11	520.00	252.63	S27° 35' 17.10"E	1195648.39	734211.40	152°09'51"	11°01'06"	128.86
C12	480.00	207.29	S26° 02' 31.50"E	1195409.76	734269.44	155°15'22"	11°56'12"	105.29
C13	1220.00	393.14	S29° 10' 56.16"E	1194780.67	734768.29	161°32'11"	4°41'47"	198.29
C14	630.00	323.41	S34° 39' 25.50"E	1194298.16	734943.44	150°35'13"	9°05'40"	165.35
C15	620.00	392.00	S31° 15' 02.84"E	1193989.47	735303.13	143°46'27"	9°14'29"	202.80
C16	339.00	88.02	S20° 34' 33.75"E	1193606.25	735392.58	165°07'26"	16°54'05"	44.26
C17	820.00	231.82	S19° 54' 54.67"E	1193180.48	735619.10	163°48'07"	6°59'14"	116.69
C18	339.00	273.85	S34° 57' 29.97"E	1192596.71	735741.23	133°42'57"	16°54'05"	144.89
C19	339.00	102.28	S49° 27' 26.20"E	1192438.86	735994.83	162°42'49"	16°54'05"	51.53
C20	560.00	122.39	S34° 33' 11.17"E	1192084.78	736300.62	167°28'41"	10°13'53"	61.44

CURVE TABLE: McNUTT WAY

CURVE #	RADIUS	LENGTH	PI STA	PI NORTH	PI EAST	DELTA	D (ARC)	T
C21	150.00	120.58	N61° 34' 11.57"E	1192001.50	735297.40	133°56'34"	38°11'50"	63.76
C22	339.00	209.52	N66° 53' 31.82"E	1192062.40	735941.54	144°35'15"	16°54'05"	108.23
C23	60.00	45.41	N25° 11' 52.76"E	1192458.30	736383.56	136°38'16"	95°29'35"	23.85

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GRAPHIC SCALE

300 0 150 300 600 1200

(IN FEET)
1 inch = 300 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CONSTRUCTION LAYOUT SHEET

McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER

11-0001

PROJECT: —

McNUTT ROAD ALIGNEMENT

Superelevation Region	Station	Description	Smoothing Curve Length	Left Outside Shoulder	Left Outside Lane	Left Inside Lane	Left Inside Shoulder	Right Outside Shoulder	Right Outside Lane	Right Inside Lane	Right Inside Shoulder
	0+00.00'	Begin Alignment	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
1	-1+33.51'	End Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
1	-0+56.51'	End Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
1	-0+18.01'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
1	0+20.49'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
1	0+44.59'	End Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
1	0+58.99'	Begin Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
1	0+83.09'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
1	1+21.59'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
1	1+60.09'	Begin Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
1	2+37.09'	Begin Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
2	2+98.34'	End Normal Crown	0	-6.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
2	3+36.84'	Level Crown	0	-6.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2	4+13.84'	Begin Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
2	4+76.21'	End Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
3	5+63.10'	Begin Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
3	6+21.21'	End Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
4	7+64.43'	Begin Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
4	9+46.70'	End Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
4	9+85.20'	Reverse Crown	0	-6.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
4	10+23.70'	Level Crown	0	-6.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
4	10+62.20'	Begin Normal Crown	0	-6.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
5	12+15.08'	End Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
5	12+53.58'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
5	12+92.08'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
5	13+30.58'	Begin Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
5	16+41.72'	End Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
6	18+07.93'	Begin Full Super	0	3.40%	3.40%	0.00%	0.00%	-6.00%	-3.40%	0.00%	0.00%
6	21+51.37'	End Full Super	0	3.40%	3.40%	0.00%	0.00%	-6.00%	-3.40%	0.00%	0.00%
7	23+39.51'	Begin Full Super	0	-6.00%	-2.60%	0.00%	0.00%	2.60%	2.60%	0.00%	0.00%
7	26+64.21'	End Full Super	0	-6.00%	-2.60%	0.00%	0.00%	2.60%	2.60%	0.00%	0.00%
8	28+32.37'	Begin Full Super	0	3.60%	3.60%	0.00%	0.00%	-6.00%	-3.60%	0.00%	0.00%
8	32+53.31'	End Full Super	0	3.60%	3.60%	0.00%	0.00%	-6.00%	-3.60%	0.00%	0.00%
8	32+84.42'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
8	33+23.31'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
8	33+62.20'	Begin Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
8	34+39.98'	Begin Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
9	37+16.99'	End Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
9	37+93.99'	End Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
9	38+32.49'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
9	38+70.99'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
9	39+09.49'	Begin Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
9	45+88.94'	End Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
10	46+83.00'	Begin Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
10	52+99.71'	End Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
10	53+38.21'	Reverse Crown	0	-6.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
10	53+76.71'	Level Crown	0	-6.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
10	54+15.21'	Begin Normal Crown	0	-6.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
10	54+92.21'	Begin Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
11	55+11.87'	End Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
11	55+89.76'	End Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
11	56+28.71'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
11	56+67.65'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
11	57+02.71'	Begin Full Super	0	3.80%	3.80%	0.00%	0.00%	-6.00%	-3.80%	0.00%	0.00%
11	59+06.01'	End Full Super	0	3.80%	3.80%	0.00%	0.00%	-6.00%	-3.80%	0.00%	0.00%
12	59+67.78'	Begin Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
12	61+23.74'	End Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
12	61+62.24'	Reverse Crown	0	-6.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
12	62+00.74'	Level Crown	0	-6.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
12	62+39.24'	Begin Normal Crown	0	-6.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
12	63+16.24'	Begin Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
13	64+96.99'	End Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
13	65+74.13'	End Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
13	66+12.70'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
13	66+51.27'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
13	66+66.70'	Begin Full Super	0	2.80%	2.80%	0.00%	0.00%	-6.00%	-2.80%	0.00%	0.00%
13	70+23.85'	End Full Super	0	2.80%	2.80%	0.00%	0.00%	-6.00%	-2.80%	0.00%	0.00%
14	72+14.85'	Begin Full Super	0	-6.00%	-3.60%	0.00%	0.00%	3.60%	3.60%	0.00%	0.00%
14	74+91.60'	End Full Super	0	-6.00%	-3.60%	0.00%	0.00%	3.60%	3.60%	0.00%	0.00%
15	76+44.10'	Begin Full Super	0	3.60%	3.60%	0.00%	0.00%	-6.00%	-3.60%	0.00%	0.00%
15	79+89.43'	End Full Super	0	3.60%	3.60%	0.00%	0.00%	-6.00%	-3.60%	0.00%	0.00%
16	81+84.89'	Begin Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
16	82+21.58'	End Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
16	82+60.08'	Reverse Crown	0	-6.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
16	82+98.58'	Level Crown	0	-6.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
16	83+37.08'	Begin Normal Crown	0	-6.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
17	84+85.75'	End Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
17	85+24.57'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
17	85+63.40'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
17	85+90.57'	Begin Full Super	0	3.40%	3.40%	0.00%	0.00%	-6.00%	-3.40%	0.00%	0.00%
17	87+78.40'	End Full Super	0	3.40%	3.40%	0.00%	0.00%	-6.00%	-3.40%	0.00%	0.00%
17	88+05.57'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
17	88+44.40'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
17	88+83.22'	Begin Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
17	89+60.87'	Begin Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
18	89+68.39'	End Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
18	90+45.39'	End Normal Crown	0	-6.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
18	90+83.89'	Level Crown	0	-6.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
18	91+22.39'	Reverse Crown	0	-6.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
18	91+60.89'	Begin Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
18	93+83.41'	End Full Super	0	-6.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
19	95+37.04'	Begin Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
19	95+87.99'	End Full Super	0	4.00%	4.00%	0.00%	0.00%	-6.00%	-4.00%	0.00%	0.00%
19	96+26.49'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
19	96+64.99'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
19	97+03.49'	Begin Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
19	97+80.49'	Begin Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
20	98+02.34'	End Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
20	98+80.24'	End Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
20	99+19.19'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
20	99+58.13'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
20	99+93.19'	Begin Full Super	0	3.80%	3.80%	0.00%	0.00%	-6.00%	-3.80%	0.00%	0.00%
20	100+66.25'	End Full Super	0	3.80%	3.80%	0.00%	0.00%	-6.00%	-3.80%	0.00%	0.00%
20	101+01.30'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
20	101+40.25'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
20	101+79.19'	Begin Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
20	102+57.09'	Begin Normal Shoulder	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%
	103+20.00'	End Alignment	0	-6.00%	-2.00%	0.00%	0.00%	-6.00%	-2.00%	0.00%	0.00%

McNUTT WAY ALIGNEMENT

Superelevation Region	Station	Description	Smoothing Curve Length	Left Outside Shoulder	Left Outside Lane	Left Inside Lane	Left Inside Shoulder	Right Outside Shoulder	Right Outside Lane	Right Inside Lane.	Right Inside Shoulder
	0+00.00'	Begin Alignment	0	-5.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
1	-0+92.42'	End Normal Shoulder	0	-5.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
1	-0+34.67'	End Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
1	0+03.83'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
1	0+42.33'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
1	0+80.83'	Begin Full Super	0	4.00%	4.00%	0.00%	0.00%	-5.00%	-4.00%	0.00%	0.00%
1	1+50.08'	End Full Super	0	4.00%	4.00%	0.00%	0.00%	-5.00%	-4.00%	0.00%	0.00%
1	1+88.58'	Reverse Crown	0	2.00%	2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
1	2+27.08'	Level Crown	0	0.00%	0.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
1	2+65.58'	Begin Normal Crown	0	-2.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
1	3+23.33'	Begin Normal Shoulder	0	-5.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
2	5+03.18'	End Normal Shoulder	0	-5.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
2	5+60.93'	End Normal Crown	0	-5.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
2	5+99.43'	Level Crown	0	-5.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2	6+37.93'	Reverse Crown	0	-5.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
2	6+76.43'	Begin Full Super	0	-5.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
2	8+34.63'	End Full Super	0	-5.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
2	8+73.13'	Reverse Crown	0	-5.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
2	9+11.63'	Level Crown	0	-5.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
2	9+50.13'	Begin Normal Crown	0	-5.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
2	10+07.88'	Begin Normal Shoulder	0	-5.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
3	11+74.15'	End Normal Shoulder	0	-5.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
3	12+31.90'	End Normal Crown	0	-5.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
3	12+70.40'	Level Crown	0	-5.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3	13+08.90'	Reverse Crown	0	-5.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
3	13+41.48'	End Full Super	0	-5.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
3	13+47.40'	Begin Full Super	0	-5.00%	-4.00%	0.00%	0.00%	4.00%	4.00%	0.00%	0.00%
3	13+79.98'	Reverse Crown	0	-5.00%	-2.00%	0.00%	0.00%	2.00%	2.00%	0.00%	0.00%
3	14+18.48'	Level Crown	0	-5.00%	-2.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
3	14+56.98'	Begin Normal Crown	0	-5.00%	-2.00%	0.00%	0.00%	-2.00%	-2.00%	0.00%	0.00%
3	15+14.73'	Begin Normal Shoulder	0	-5.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%
	13+91.35'	End Alignment	0	-5.00%	-2.00%	0.00%	0.00%	-5.00%	-2.00%	0.00%	0.00%

.\XREF\GA811newlogo.jpg

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

CONSTRUCTION LAYOUT SHEET

SUPERELEVATION REPORT
McNUTT ROAD AND McNUTT WAY

DRAWING NUMBER

11-0002


EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE
CURVE # C1
PI STA = 0+52.00
PI N = 1197442.62
PI E = 731143.98
DELTA = 21° 09' 28"
D (ARC) = 57° 17' 45"
T = 18.68
L = 36.93
R = 100.00
CURVE # C2
PI STA = 4+45.56
PI N = 1197590.70
PI E = 731509.08
DELTA = 19° 13' 04"
D (ARC) = 16° 54' 05"
T = 57.39
L = 113.71
R = 339.00
CURVE # C3
PI STA = 5+92.63
PI N = 1197688.47
PI E = 731620.39
DELTA = 18° 29' 44"
D (ARC) = 16° 54' 05"
T = 55.20
L = 109.43
R = 339.00
CURVE # C4
PI STA = 8+60.09
PI N = 1197792.48
PI E = 731867.83
DELTA = 38° 10' 57"
D (ARC) = 16° 20' 42"
T = 121.33
L = 233.60
R = 350.54
PROJECT:
BENNOCK MILL ROAD 80' R/W
McNUTT ROAD - 80' R/W
MATCHLINE STA 10+50
1 AUGUSTA CONNECTIONS LLC TAX ID 2810127000
2 ASKIN ENTERPRISES LTD TAX ID 2810139000
3 PAUL M. DAVIS TRUST TAX ID 2810143000
4 PAUL M. DAVIS TRUST TAX ID 2810144000
5 RONNIE BOOZER TAX ID 2810140000
6 ASKIN ENTERPRISES LTD TAX ID 2810141000
7 BRIAN DOUGLAS OAKLEY II TAX ID 2810142000
8 BRIAN S. KACZMAREK TAX ID 2810156000
9 ASKIN ENTERPRISES LTD TAX ID 2810146000
10 ASKIN ENTERPRISES LTD TAX ID 2810147000
48 GEORGE DUKES TAX ID 2810188000
49 SABRINA WARD TAX ID 2810187000
50 OLA ROBERSON WILKES TAX ID 2810186000
51 RUSSELL BELL TAX ID 2810185000
52 ASKIN ENTERPRISES LTD TAX ID 2810189000
53 JIMMIE DYSON TAX ID 2810191000
54 DALE A. MCQUEEN SR. TAX ID 2810192000
55 MAC ALDERIDGE TAX ID 2810193000
56 NOLVIRA WILLIAMS CURRY TAX ID 2810119000
57 DOUG MADSEN TAX ID 2810120000
58 CAMILLA HAMMOCK TAX ID 2810121000
59 ASKIN ENTERPRISES LTD TAX ID 2810122000
MOBILE HOME
DIRT DRIVE
CHAIN LINK FENCE
WOOD FENCE
APPROX. LOCATION 10" WATER MAIN
APPROX. LOCATION 6" WATER MAIN
2' FB DITCH
EASEMENT FOR THE CONSTRUCTION & MAINTENANCE OF DRAINAGE
NOTE: STA: 5+50 - 15+00 WL CONFLICT
INSTALL 6" TAPPING SLEEVE AND VALVE
CUT & CAP EXISTING WATER LINE
SIGN POST
BEGIN PROJECT STA 0+00 ℄ BENNOCK MILL ROAD
N67° 55' 22"E 317.92'
CONST ℄
EOP
NOTES:
1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED.
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.
3. RECONNECT EXISTING WATER METERS TO NEW 1" WATER SERVICE.
HIGH PT. STA: 2+50.01
HIGH PT ELEV: 314.82
SPEED = 35 MPH
BVCS: 1+95.00 BVCE: 314.69
EVCS: 3+05.00 EVCE: 314.69
LOW PT. STA: 7+75.00
LOW PT ELEV: 312.47
SPEED = 35 MPH
BVCS: 7+20.00 BVCE: 312.61
EVCS: 8+30.00 EVCE: 312.61
PROPOSED GRADE @ CONSTR ℄
EXISTING GRADE @ CONSTR ℄
30" Concrete Pipe
0.50%
CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 2'

.\XREF\GA811newlogo.jpg

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
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Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

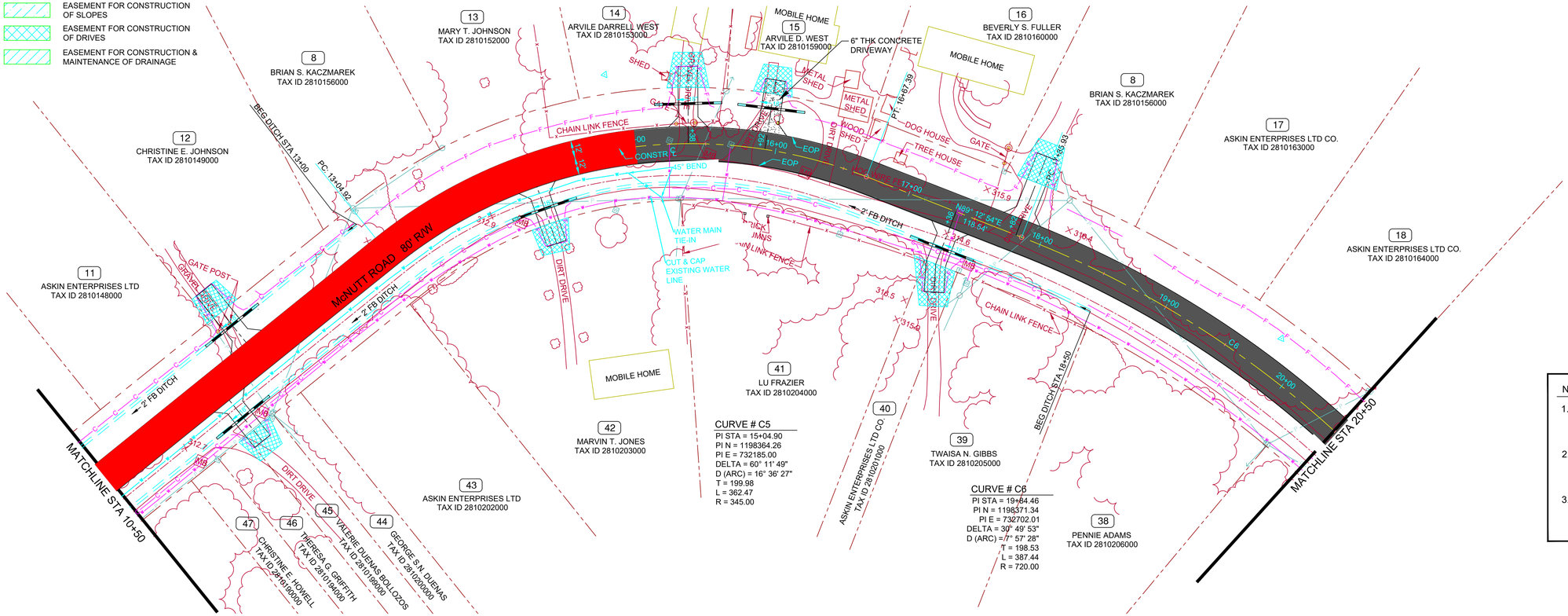
PLAN AND PROFILE

McNUTT ROAD
0+00 to 10+50

DRAWING NUMBER
13 - 0001

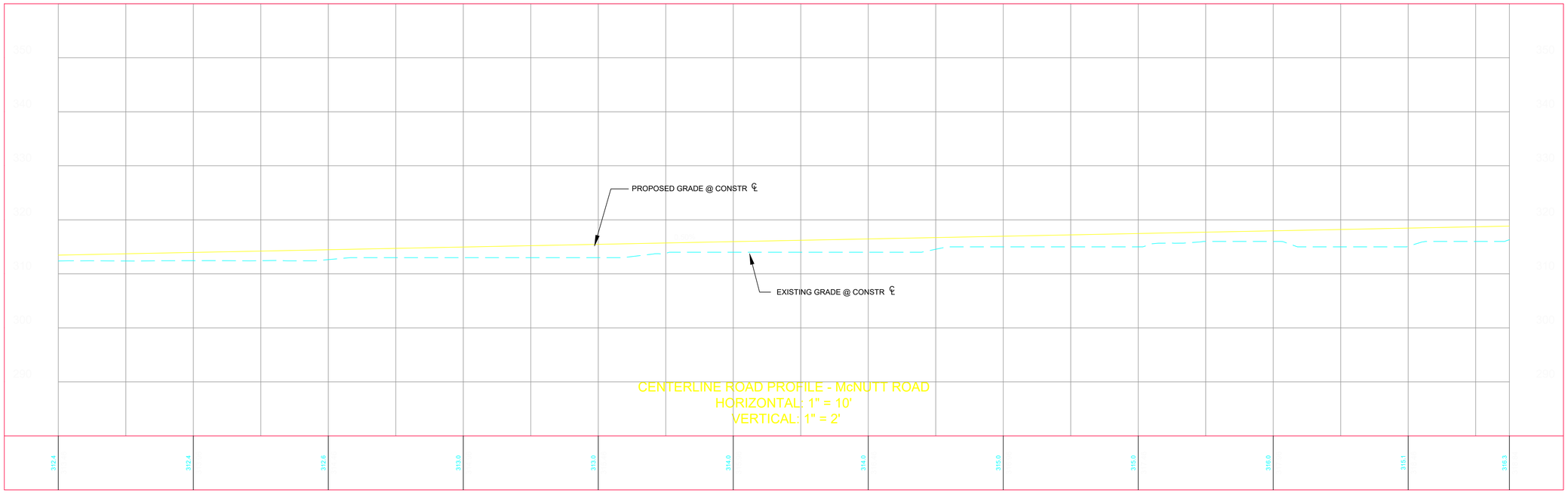
PROJECT: —

EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



NOTES:

1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED.
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.
3. RECONNECT EXISTING WATER METERS TO NEW 1" WATER SERVICE.



CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 2'

.\XREF\GA811newlogo.jpg

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

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CHECKED BY	KEQ	03-12-20

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

PLAN AND PROFILE

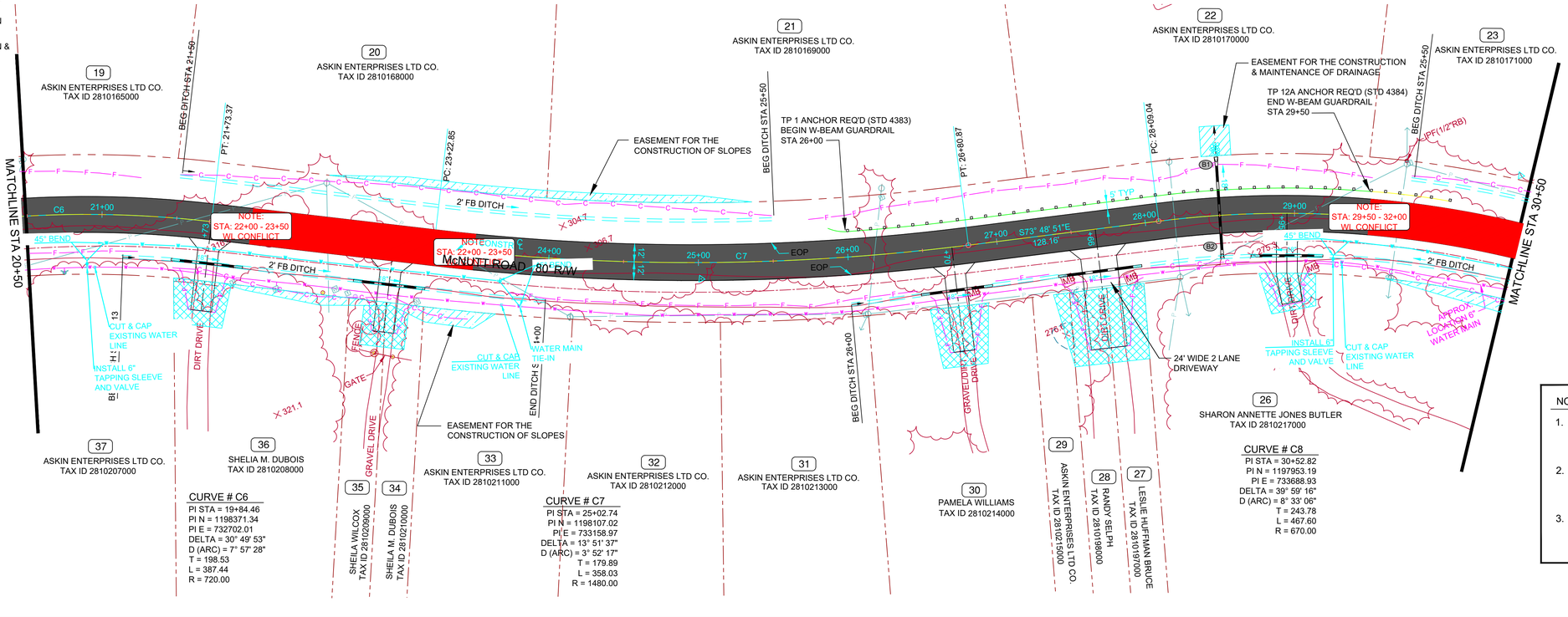
McNUTT ROAD
10+50 to 20+50

DRAWING NUMBER

13 - 0002

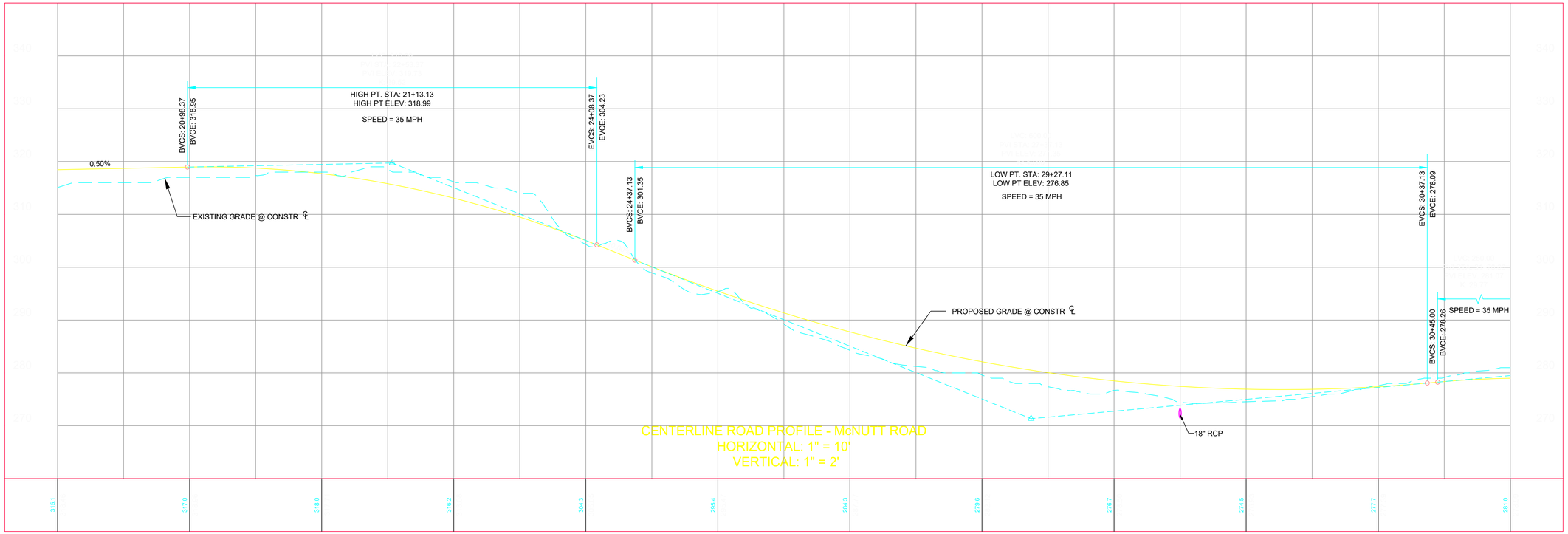
PROJECT: ___

▨	EASEMENT FOR CONSTRUCTION OF SLOPES
▩	EASEMENT FOR CONSTRUCTION OF DRIVES
▨	EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



NOTES:

1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED.
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.
3. RECONNECT EXISTING WATER METERS TO NEW 1" WATER SERVICE.



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HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI
— AN ATLAS COMPANY —

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

PLAN AND PROFILE

McNUTT ROAD
20+50 to 30+50

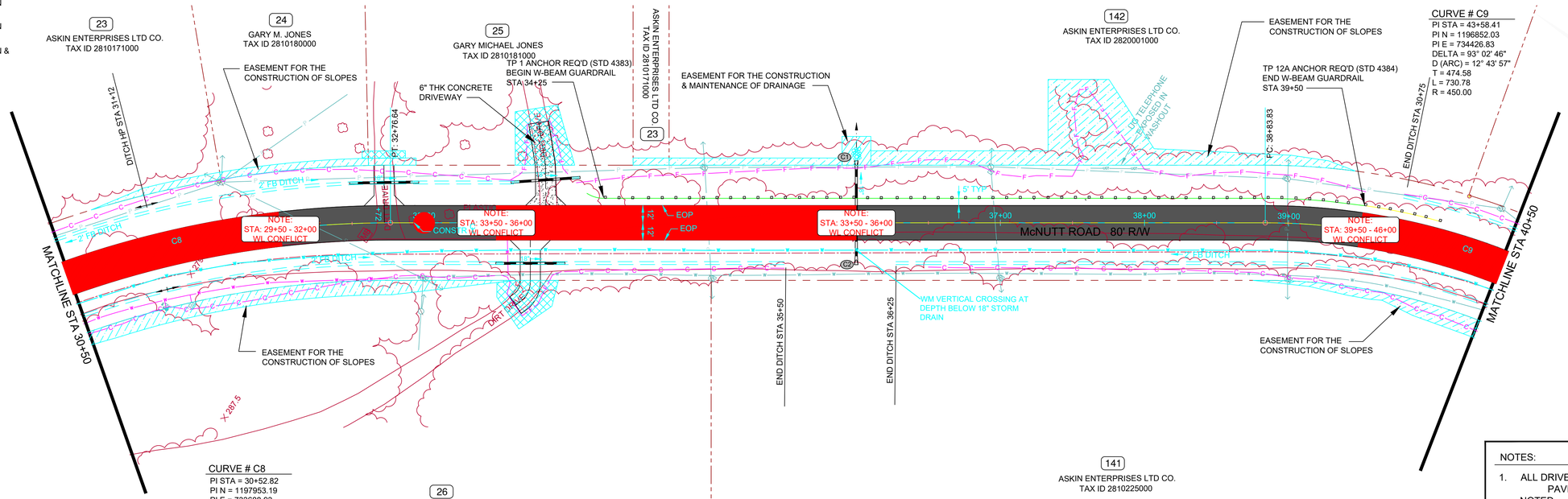
DRAWING NUMBER
13 - 0003

EASEMENT FOR CONSTRUCTION OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

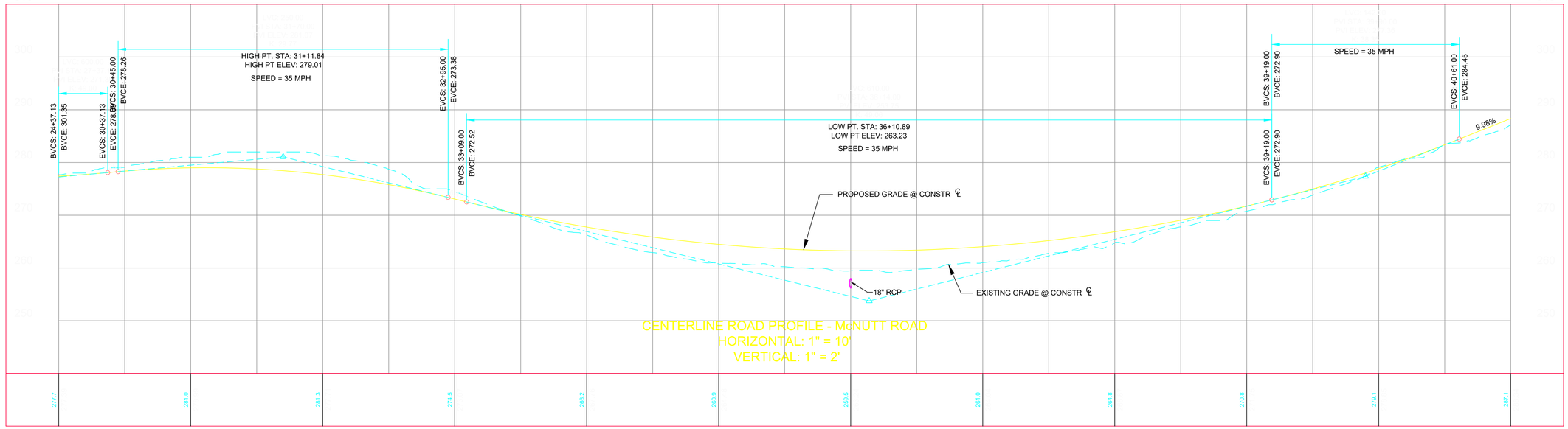
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE

PROJECT: —



NOTES:

1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED.
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.
3. RECONNECT EXISTING WATER METERS TO NEW 1" WATER SERVICE.



.\XREF\GA811newlogo.jpg	HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 10'	MORELAND ALTOBELLI — AN ATLAS COMPANY — **Moreland Altobelli Associates, LLC** 327 Dahlonega Street Suite 1401 Cumming, Georgia 30040 Telephone (770) 781-5507	DESIGNED BY: NAA 03-12-20 DRAWN BY: NAA 03-12-20 CHECKED BY: KEQ 03-12-20	..\Images-References\thCTAAGU98.bmp	**McNUTT ROAD** **ROAD CONSTRUCTION PLANS**	REVISION DATES	**PLAN AND PROFILE** **McNUTT ROAD** **30+50 to 40+50**	DRAWING NUMBER **13 - 0004**


EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE
PROJECT:
143 ASKIN ENTERPRISES LTD CO. TAX ID 2820006000
144 ASKIN ENTERPRISES LTD CO. TAX ID 2820009000
145 ASKIN ENTERPRISES LTD CO. TAX ID 2820010000
146 VICTOR L. PERKINS TAX ID 2810243000
147 CAROLYN L. PHILLIPS TAX ID 2810242000
148 BRENDA T. HAMMOND TAX ID 1810241000
149 ASKIN ENTERPRISES LTD CO. TAX ID 2810240000
CURVE # C10
PI STA = 51+16.07
PI N = 1196352.54
PI E = 733588.28
DELTA = 100° 43' 32"
D (ARC) = 15° 04' 40"
T = 458.73
L = 668.04
R = 380.00
MATCHLINE STA 40+50
MATCHLINE STA 51+00
McNUTT ROAD 80' R/W
NOTE: STA: 39+50 - 46+00 WL CONFLICT
NOTE: STA: 49+50 - 53+00 WL CONFLICT
EASEMENT FOR THE CONSTRUCTION OF SLOPES
MOBILE HOME
141 ASKIN ENTERPRISES LTD CO. TAX ID 2810225000
CURVE # C9
PI STA = 43+58.41
PI N = 1196852.03
PI E = 734426.83
DELTA = 93° 02' 46"
D (ARC) = 12° 43' 57"
T = 474.58
L = 730.78
R = 450.00
140 ASKIN ENTERPRISES LTD CO. TAX ID 2810232000
139 ASKIN ENTERPRISES LTD CO. TAX ID 2810233000
138 CLIFTON W. COOPER TAX ID 2810224000
137 RONALD C.WRIGHT TAX ID 2810222000
136 RONALD C.WRIGHT TAX ID 2810223000
135 ASKIN ENTERPRISES LTD CO. TAX ID 2810234000
134 ASKIN ENTERPRISES LTD CO. TAX ID 2810235000
133 ASKIN ENTERPRISES LTD CO. TAX ID 2810236000
CUT & CAP EXISTING WATER LINE
INSTALL 6" TAPPING SLEEVE AND VALVE
NOTES:
1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED.
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.
3. RECONNECT EXISTING WATER METERS TO NEW 1" WATER SERVICE.
BVCS: 42+60.00 BVCE: 304.32
SPEED = 35 MPH
EVCS: 45+10.00 EVCE: 319.52
BVCS: 46+58.00 BVCE: 322.75
HIGH PT. STA: 47+22.48
HIGH PT ELEV: 323.45
SPEED = 35 MPH
EVCS: 50+18.00 EVCE: 308.68
EXISTING GRADE @ CONSTR ℄
PROPOSED GRADE @ CONSTR ℄
-10.00%
CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 2'

.\XREF\GA811newlogo.jpg

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
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Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

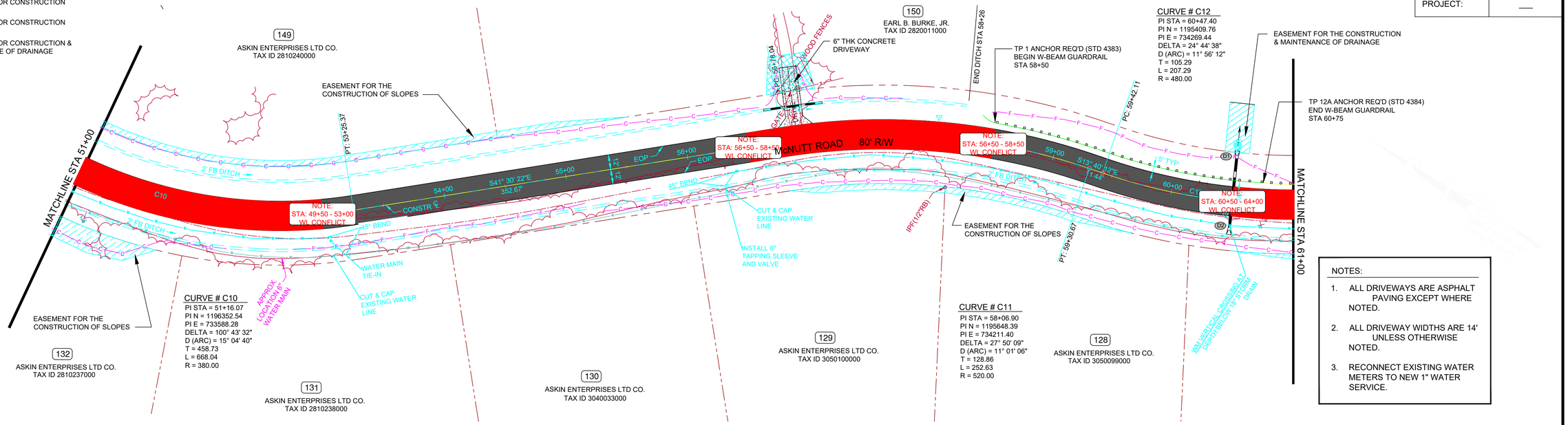
PLAN AND PROFILE

McNUTT ROAD
40+50 to 51+00

DRAWING NUMBER
13 - 0005

PROJECT: —

EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE

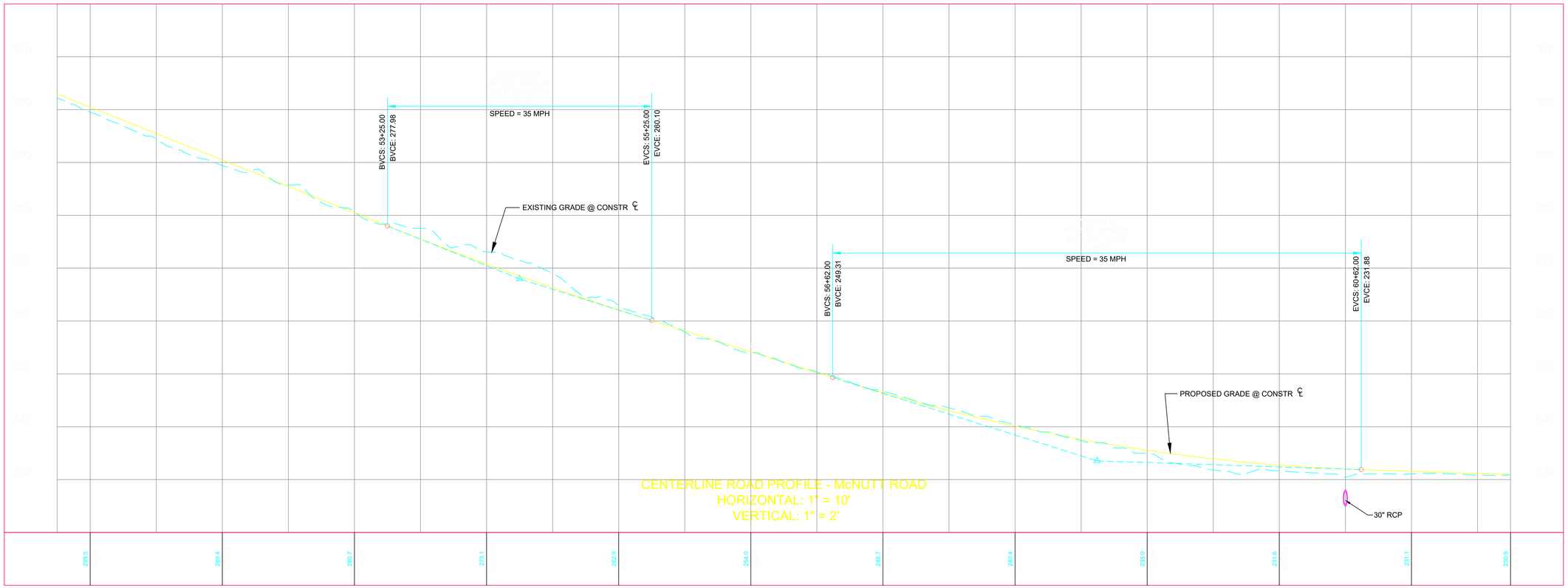


CURVE # C10
PI STA = 51+16.07
PI N = 1196352.54
PI E = 733588.28
DELTA = 100° 43' 32"
D (ARC) = 15° 04' 40"
T = 458.73
L = 668.04
R = 380.00

CURVE # C11
PI STA = 58+06.90
PI N = 1195648.39
PI E = 734211.40
DELTA = 27° 50' 09"
D (ARC) = 11° 01' 06"
T = 128.86
L = 252.63
R = 520.00

CURVE # C12
PI STA = 60+47.40
PI N = 1195409.76
PI E = 734269.44
DELTA = 24° 44' 38"
D (ARC) = 11° 56' 12"
T = 105.29
L = 207.29
R = 480.00

NOTES:
1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED.
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.
3. RECONNECT EXISTING WATER METERS TO NEW 1" WATER SERVICE.



.\XREF\GA811newlogo.jpg

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

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DRAWN BY	NAA	03-12-20
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..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

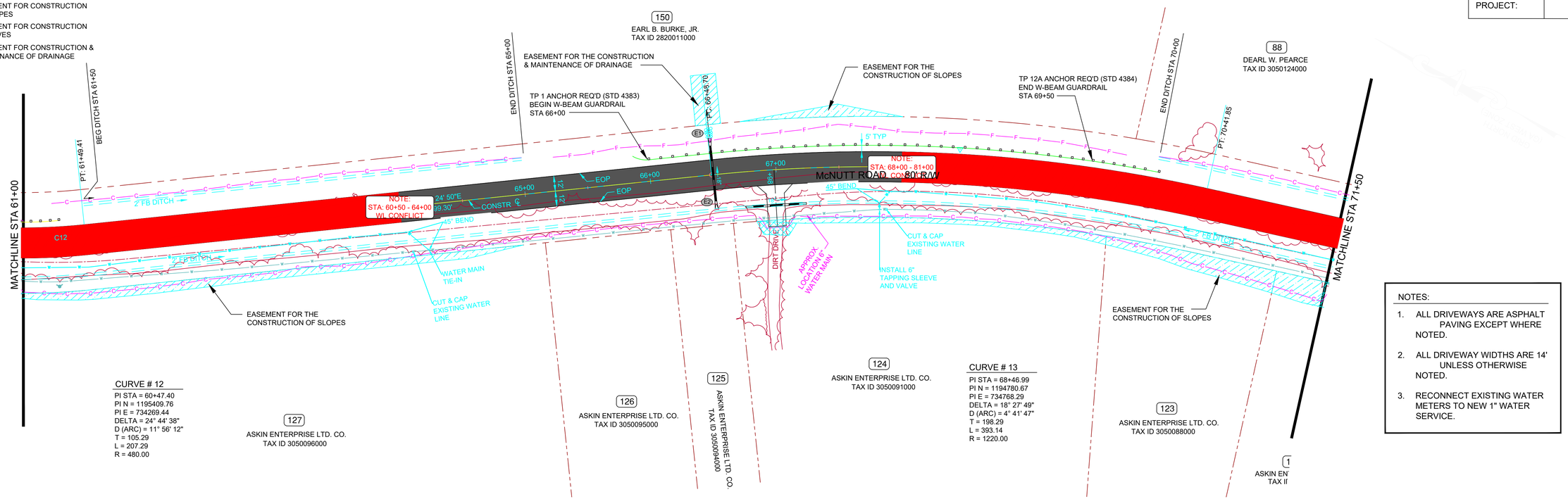
PLAN AND PROFILE

McNUTT ROAD
51+00 to 61+00

DRAWING NUMBER
13 - 0006

PROJECT: —

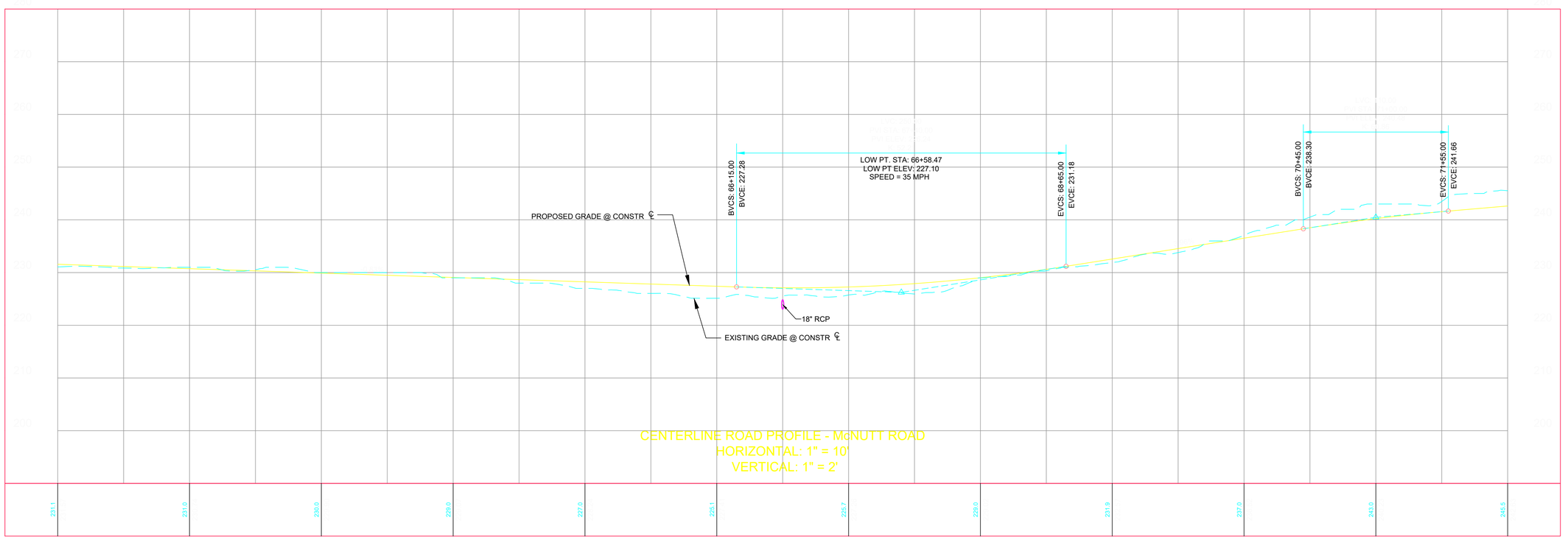
EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



CURVE # 12
PI STA = 60+47.40
PI N = 1195409.76
PI E = 734269.44
DELTA = 24° 44' 38"
D (ARC) = 11° 56' 12"
T = 105.29
L = 207.29
R = 480.00

CURVE # 13
PI STA = 68+46.99
PI N = 1194780.67
PI E = 734768.29
DELTA = 18° 27' 49"
D (ARC) = 4° 41' 47"
T = 198.29
L = 393.14
R = 1220.00

NOTES:
1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED.
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.
3. RECONNECT EXISTING WATER METERS TO NEW 1" WATER SERVICE.



.\XREF\GA811newlogo.jpg

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

PLAN AND PROFILE

McNUTT ROAD
61+00 to 71+50

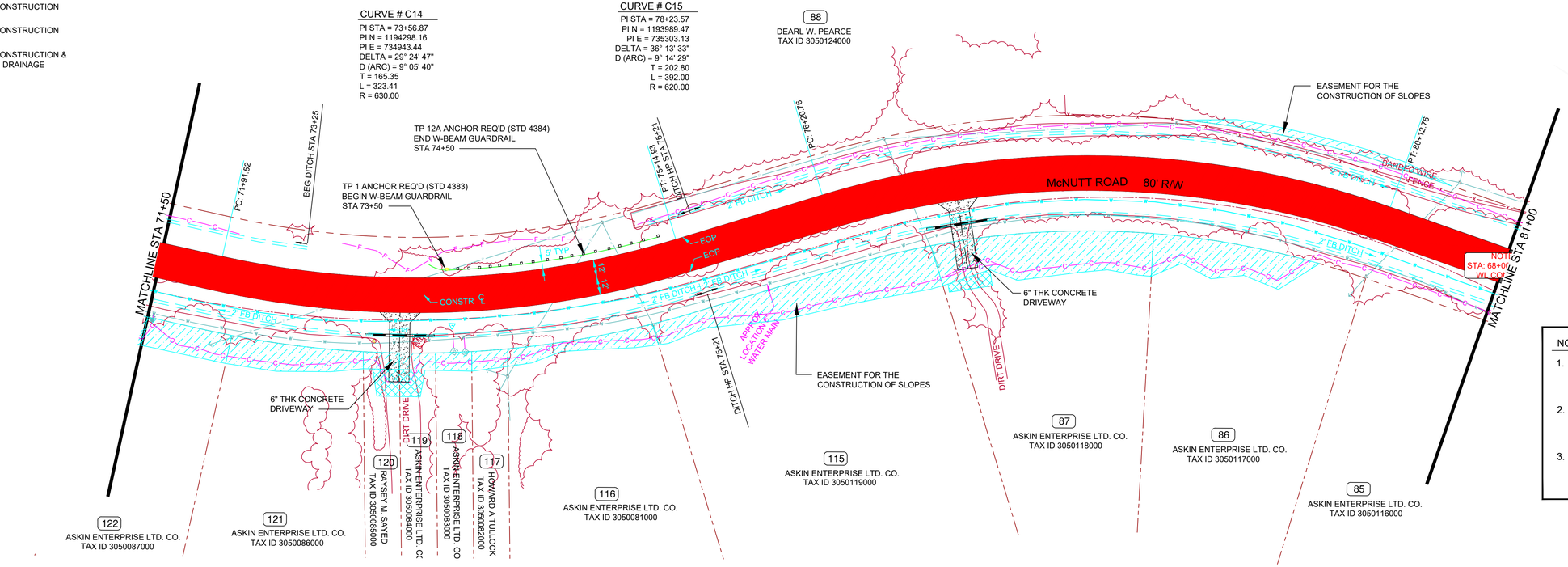
DRAWING NUMBER
13 - 0007

PROJECT: —

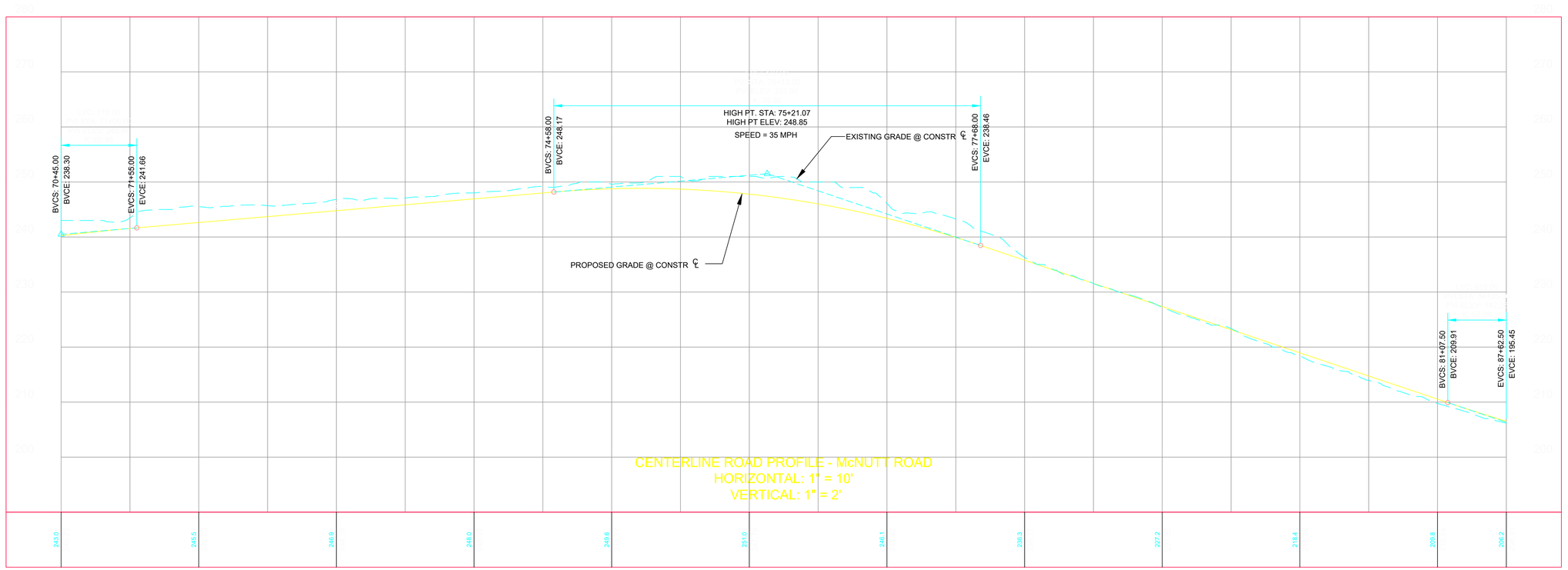
EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE

CURVE # C14
PI STA = 73+56.87
PI N = 1194298.16
PI E = 734943.44
DELTA = 29° 24' 47"
D (ARC) = 9° 05' 40"
T = 165.35
L = 323.41
R = 630.00

CURVE # C15
PI STA = 78+23.57
PI N = 1193989.47
PI E = 735303.13
DELTA = 36° 13' 33"
D (ARC) = 9° 14' 29"
T = 202.80
L = 392.00
R = 620.00



NOTES:
1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED.
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.
3. RECONNECT EXISTING WATER METERS TO NEW 1" WATER SERVICE.



.\XREF\GA811newlogo.jpg

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —
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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

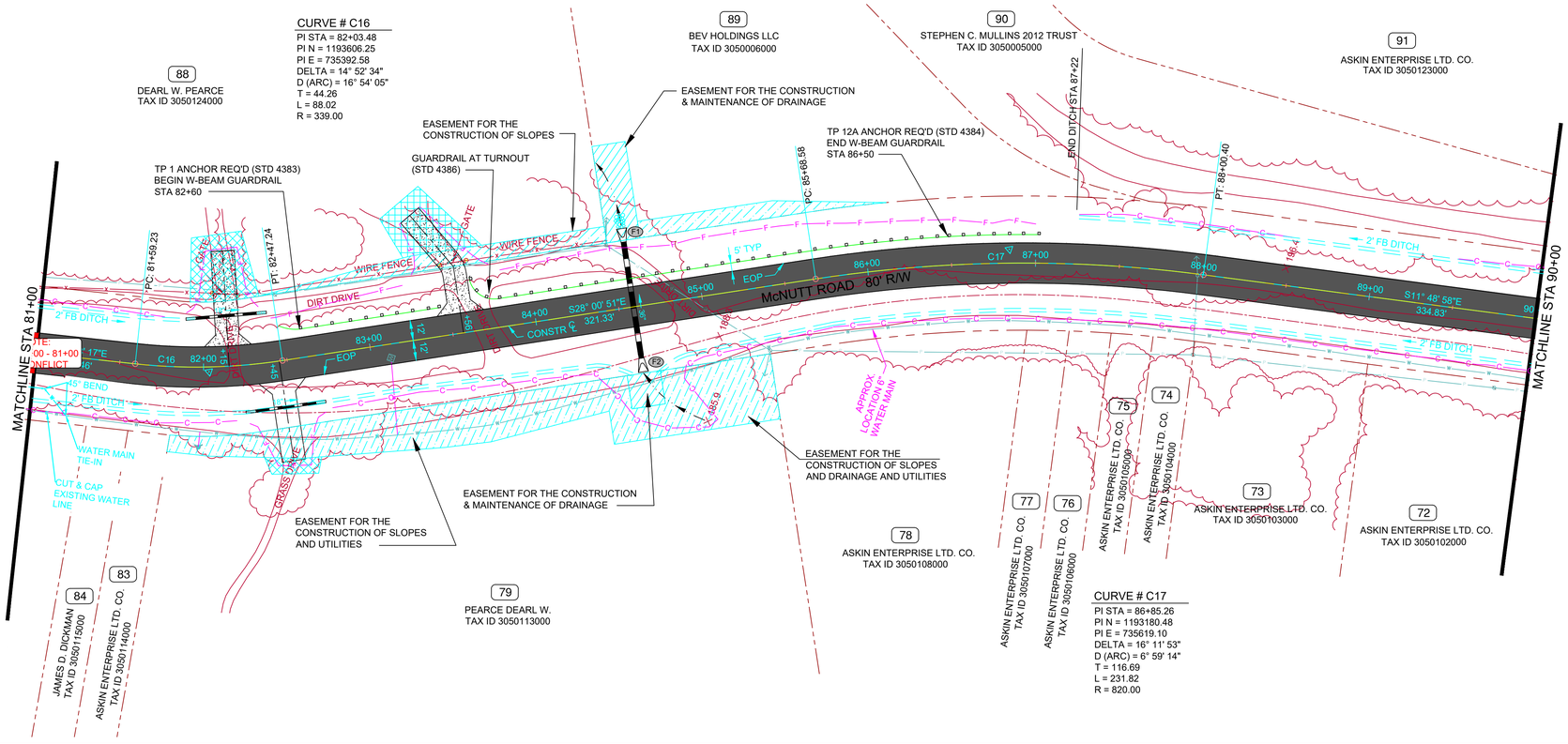
PLAN AND PLOT

McNUTT ROAD
71+50 to 81+00

DRAWING NUMBER
13 - 0008

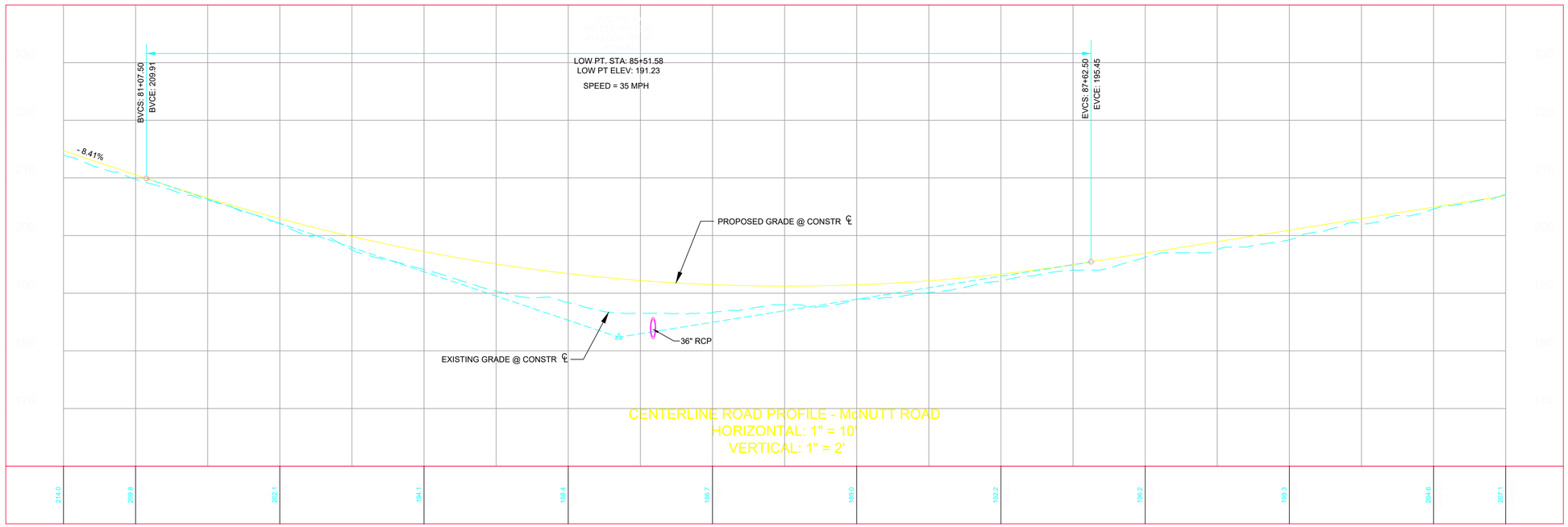
PROJECT: —

EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



NOTES:

1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED.
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.
3. RECONNECT EXISTING WATER METERS TO NEW 1" WATER SERVICE.



CENTERLINE ROAD PROFILE - McNUTT ROAD
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 2'

.\XREF\GA811newlogo.jpg

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

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327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

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DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

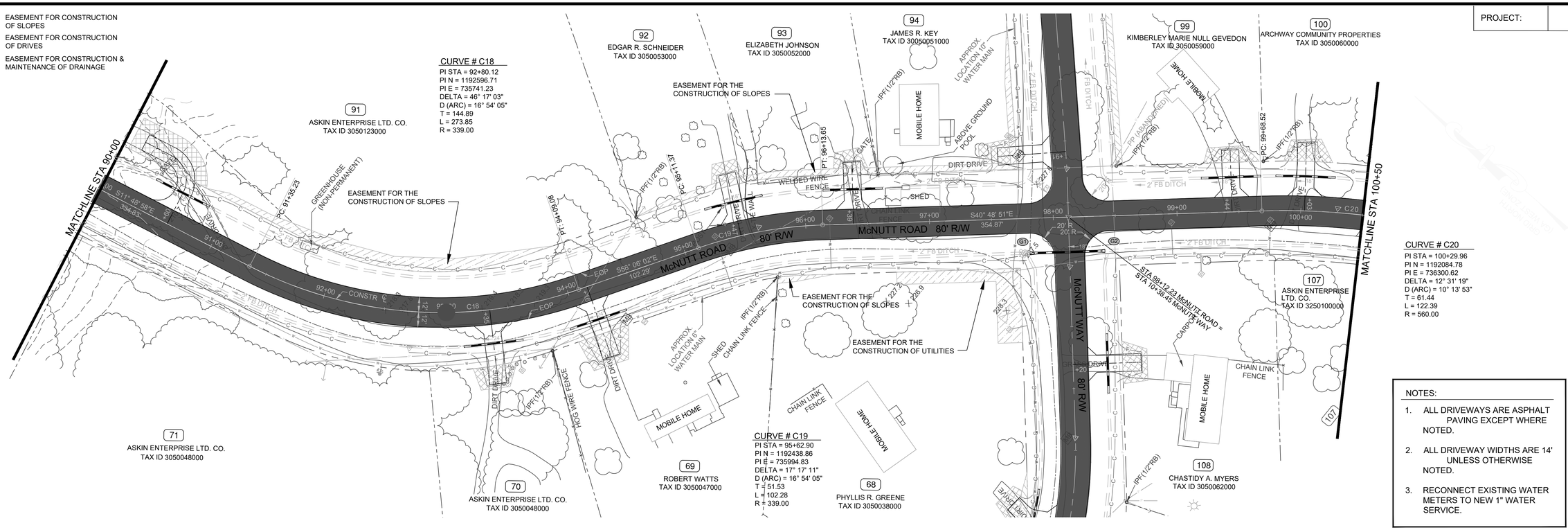
PLAN AND PROFILE

McNUTT ROAD
81+00 to 90+00

DRAWING NUMBER
13 - 0009

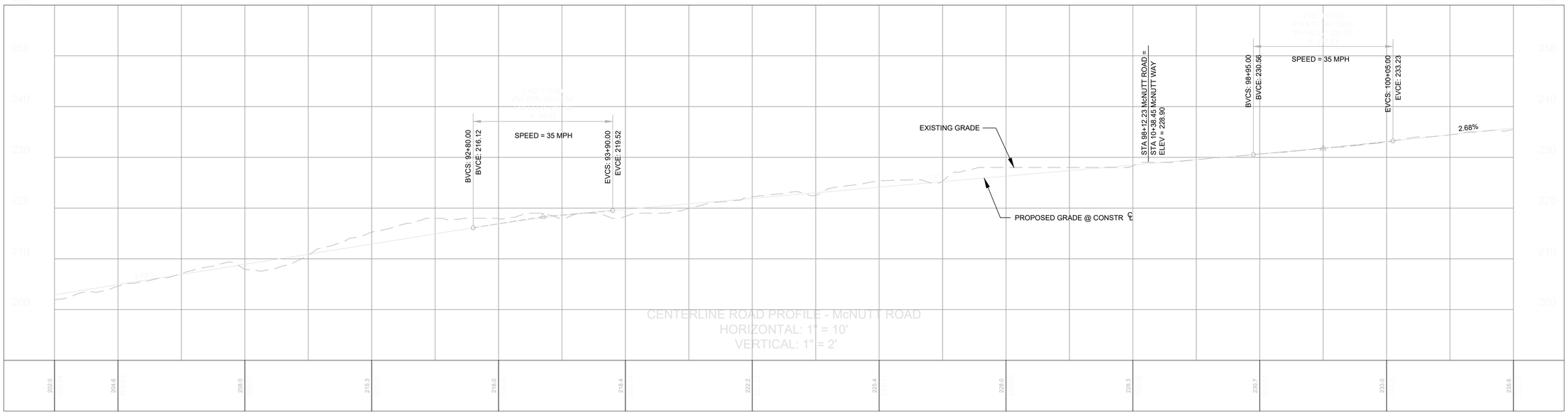
PROJECT: —

EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



NOTES:

1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED.
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.
3. RECONNECT EXISTING WATER METERS TO NEW 1" WATER SERVICE.



.\XREF\GA811newlogo.jpg

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

PLAN AND PROFILE

McNUTT ROAD
90+00 to 100+50

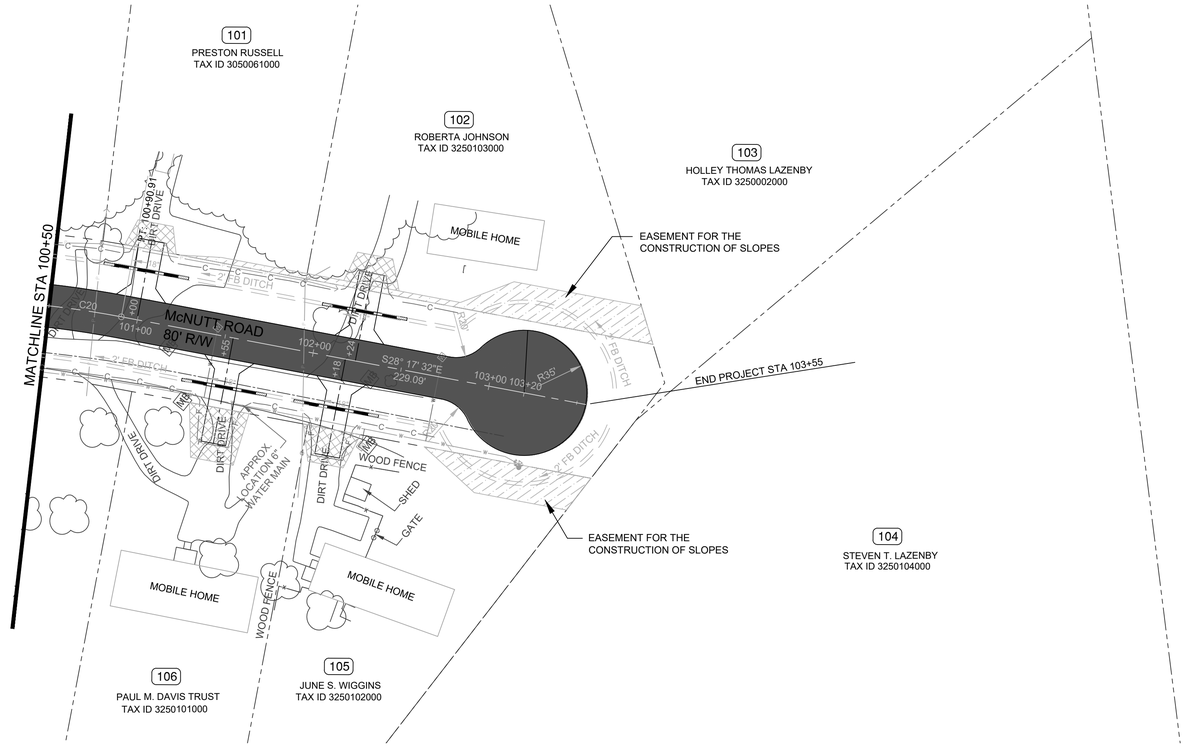
DRAWING NUMBER
13 - 0010

PROJECT: —

EASEMENT FOR CONSTRUCTION OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE

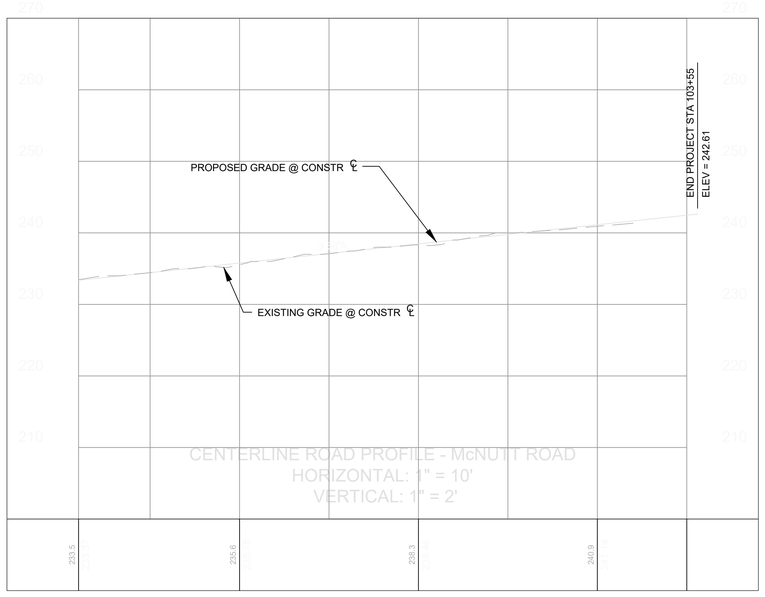


CURVE # C20

PI STA = 100+29.96
PI N = 1192084.78
PI E = 736300.62
DELTA = 12° 31' 19"
D (ARC) = 10° 13' 53"
T = 61.44
L = 122.39
R = 560.00

NOTES:

1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED.
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.
3. RECONNECT EXISTING WATER METERS TO NEW 1" WATER SERVICE.



.\XREF\GA811newlogo.jpg	HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 10'	MORELAND ALTOBELLI — AN ATLAS COMPANY —	**Moreland Altobelli Associates, LLC** 327 Dahlonega Street Suite 1401 Cumming, Georgia 30040 Telephone (770) 781-5507	DESIGNED BY: NAA 03-12-20 DRAWN BY: NAA 03-12-20 CHECKED BY: KEQ 03-12-20	..\Images-References\thCTAAGU98.bmp	**McNUTT ROAD ROAD CONSTRUCTION PLANS**

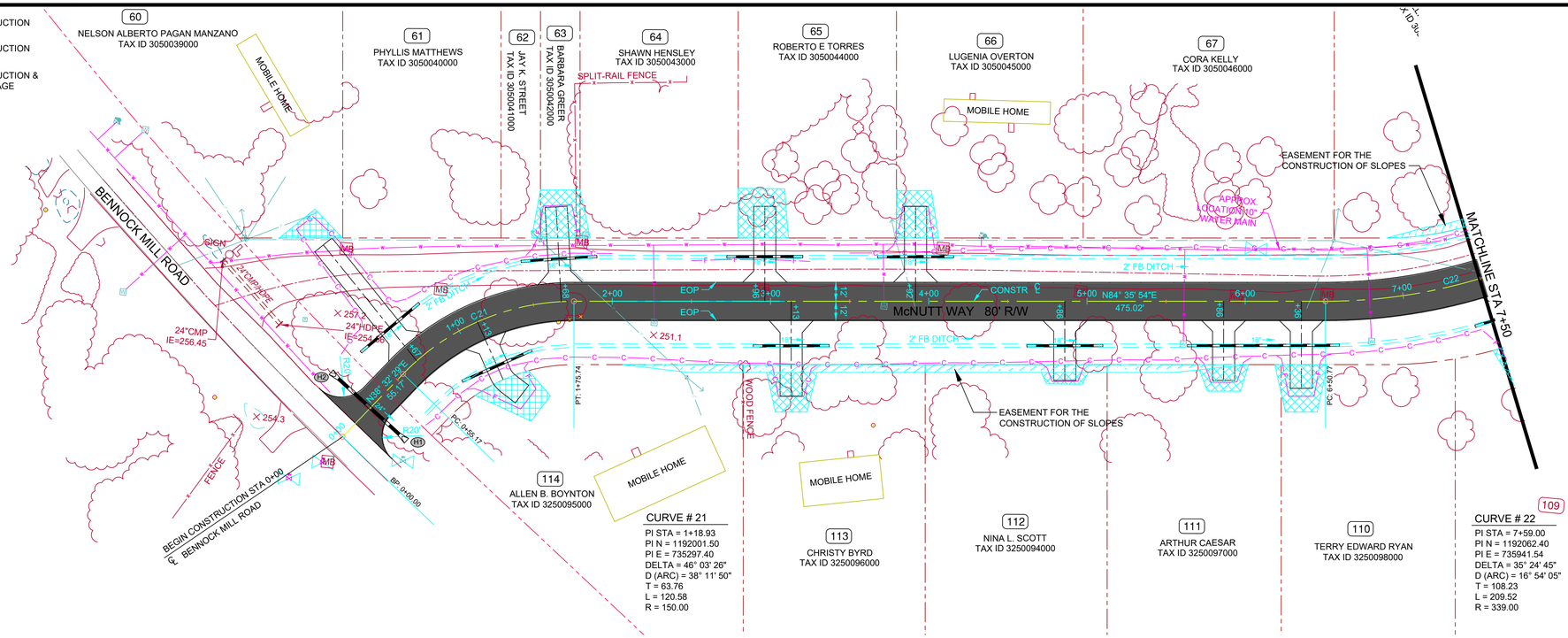
REVISION DATES

PLAN AND PROFILE	DRAWING NUMBER
McNUTT ROAD 100+50 to END	**13 - 0011**

EASEMENT FOR CONSTRUCTION OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE

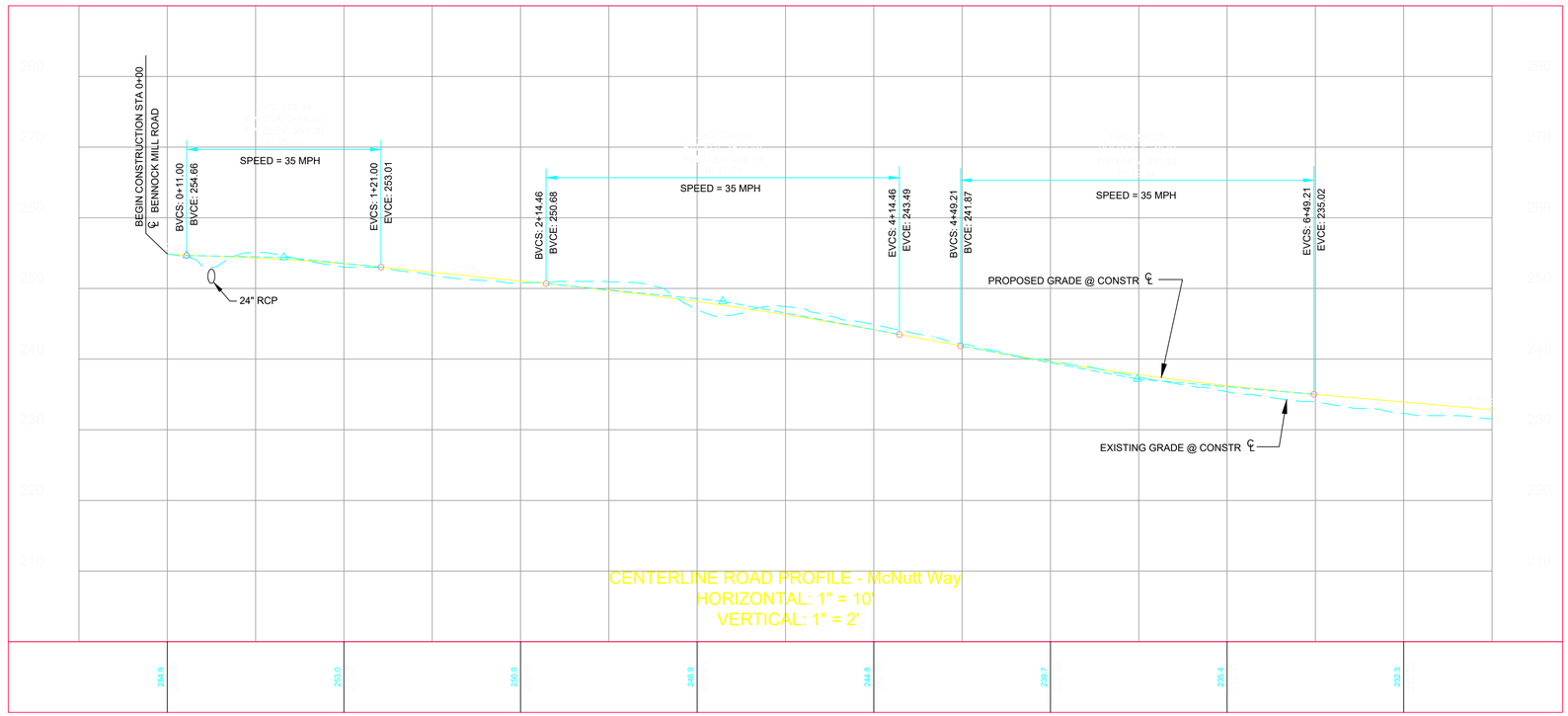


CURVE # 21
PI STA = 1+18.93
PI N = 1192001.50
PI E = 735297.40
DELTA = 46° 03' 26"
D (ARC) = 38° 11' 50"
T = 63.76
L = 120.58
R = 150.00

CURVE # 22
PI STA = 7+59.00
PI N = 1192062.40
PI E = 735941.54
DELTA = 35° 24' 45"
D (ARC) = 16° 54' 05"
T = 108.23
L = 209.52
R = 339.00

NOTES:

1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED.
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.
3. RECONNECT EXISTING WATER METERS TO NEW 1" WATER SERVICE.



CENTERLINE ROAD PROFILE - McNutt Way
HORIZONTAL: 1" = 10'
VERTICAL: 1" = 2'

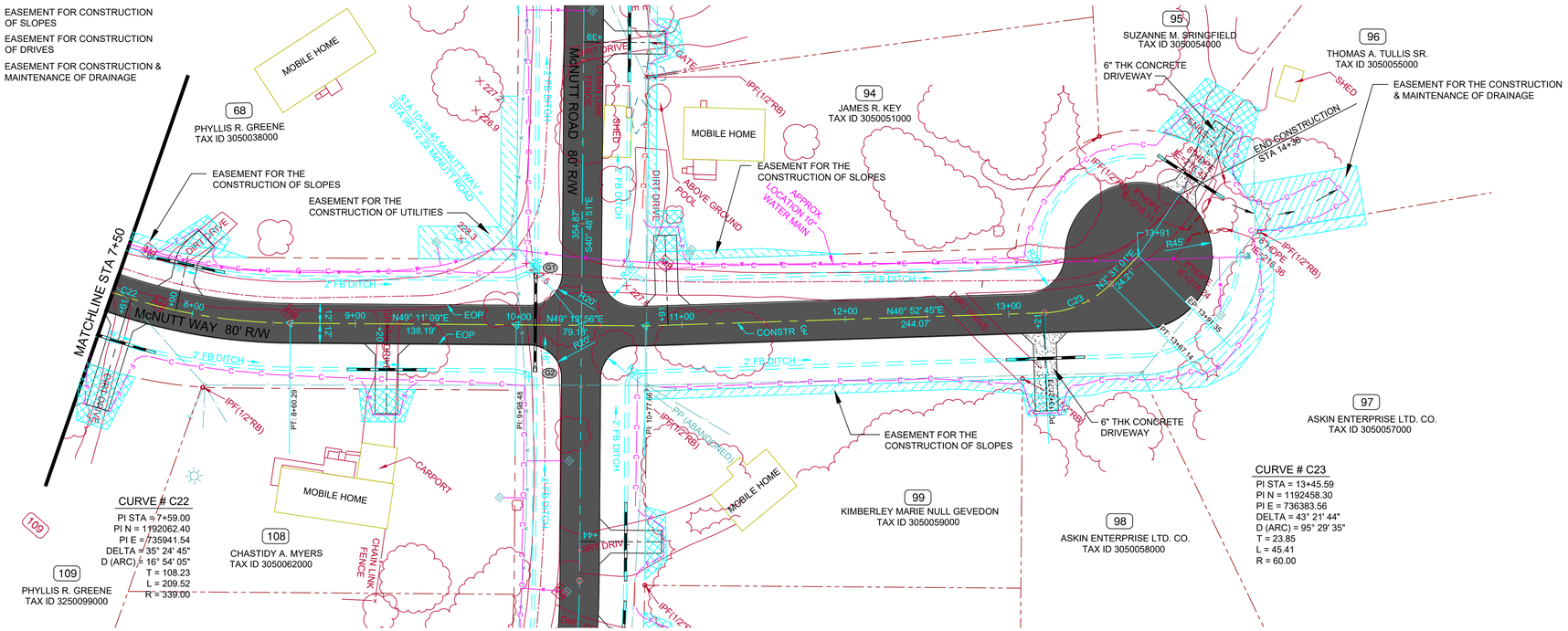
.\XREF\GA811newlogo.jpg	HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 10'	MORELAND ALTOBELLI — AN ATLAS COMPANY — **Moreland Altobelli Associates, LLC** 327 Dahlonega Street Suite 1401 Cumming, Georgia 30040 Telephone (770) 781-5507	DESIGNED BY: NAA 03-12-20 DRAWN BY: NAA 03-12-20 CHECKED BY: KEQ 03-12-20
..\Images-References\thCTAAGU98.bmp	**McNUTT ROAD** **ROAD CONSTRUCTION PLANS**	REVISION DATES	**PLAN AND PROFILE** **McNUTT WAY** **0+00 to 7+50**

PROJECT: —

DRAWING NUMBER
13 - 0012

PROJECT: —

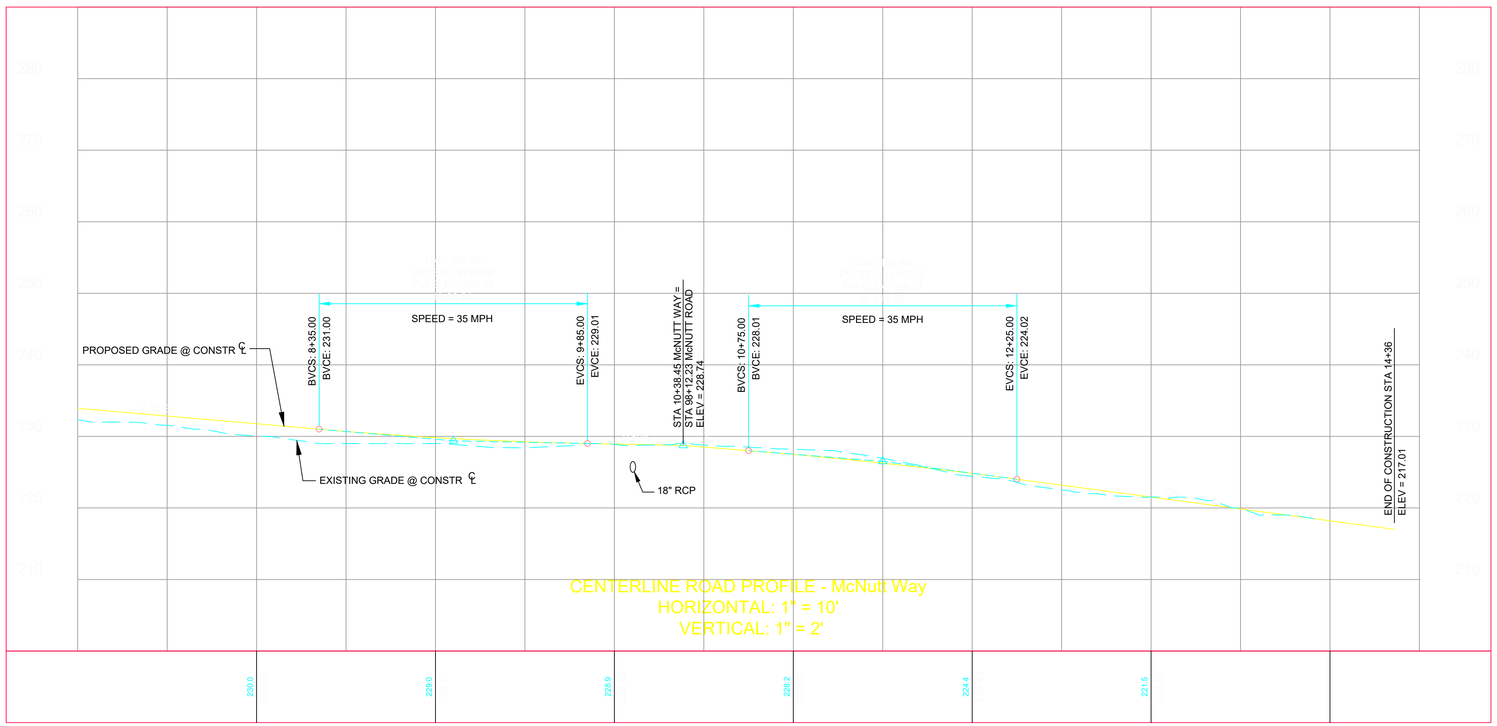
EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



CURVE # C22
PI STA = 7+59.00
PI N = 1192062.40
PI E = 735941.54
DELTA = 35° 24' 45"
D (ARC) = 16° 54' 05"
T = 108.23
L = 209.52
R = 339.00

CURVE # C23
PI STA = 13+45.59
PI N = 1192458.30
PI E = 736383.56
DELTA = 43° 21' 44"
D (ARC) = 95° 29' 35"
T = 23.85
L = 45.41
R = 60.00

NOTES:
1. ALL DRIVEWAYS ARE ASPHALT PAVING EXCEPT WHERE NOTED.
2. ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.
3. RECONNECT EXISTING WATER METERS TO NEW 1" WATER SERVICE.



.\XREF\GA811newlogo.jpg

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

MORELAND ALTOBELLI — AN ATLAS COMPANY —
Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

PLAN AND PROFILE

McNUTT WAY
7+50 to END

DRAWING NUMBER
13 - 0013

TEMPORARY EASEMENT FOR CONSTRUCTION OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

PERMANENT EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE

CURVE # C1
PI STA = 0+52.00
PI N = 1197442.62
PI E = 731143.98
DELTA = 21° 09' 28"
D (ARC) = 57° 17' 45"
T = 18.68
L = 36.93
R = 100.00

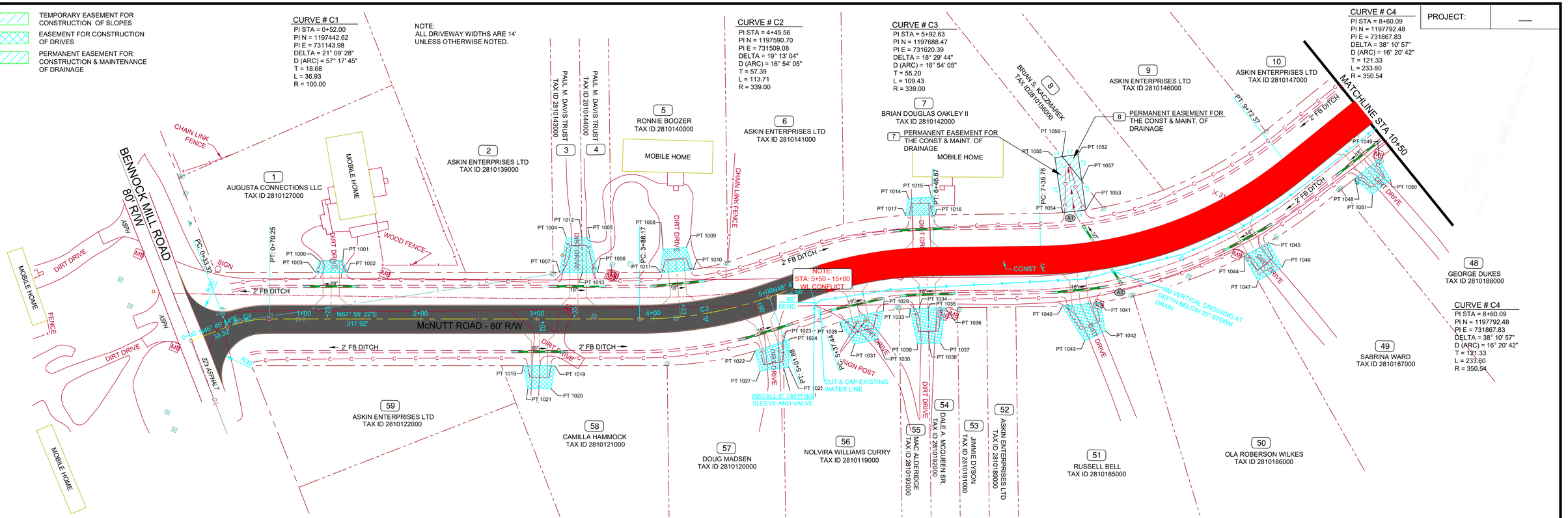
NOTE:
ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.

CURVE # C2
PI STA = 4+45.56
PI N = 1197590.70
PI E = 731509.08
DELTA = 19° 13' 04"
D (ARC) = 16° 54' 05"
T = 57.39
L = 113.71
R = 339.00

CURVE # C3
PI STA = 5+92.63
PI N = 1197688.47
PI E = 731620.39
DELTA = 18° 29' 44"
D (ARC) = 16° 54' 05"
T = 55.20
L = 109.43
R = 339.00

CURVE # C4
PI STA = 8+60.09
PI N = 1197792.48
PI E = 731867.83
DELTA = 38° 10' 57"
D (ARC) = 16° 20' 42"
T = 121.33
L = 233.60
R = 350.54

PROJECT: —



PARCEL 1 - REQ'D DRWY EASM'T

234.41 SF
Alignment Name: McNUTT ROAD
Description: STA 1+23 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1000	1+13.37	-49.906'
1001	1+33.37	-49.906'
1002	1+37.20	-40.000'
1003	1+09.87	-40.000'

PARCEL 5 - REQ'D DRWY EASM'T

477.90 SF
Alignment Name: McNUTT ROAD
Description: STA 4+23 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1008	4+12.72	-59.041'
1009	4+36.92	-58.565'
1010	4+40.51	-38.886'
1011	4+08.62	-39.505'

PARCEL 7 - REQ'D DRWY EASM'T

341.00 SF
Alignment Name: McNUTT ROAD
Description: STA 6+38 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1014	6+28.90	-55.121'
1015	6+46.11	-55.149'
1016	6+49.18	-40.000'
1017	6+26.04	-40.534'

PARCEL 49 - REQ'D DRWY EASM'T

576.21 SF
Alignment Name: McNUTT ROAD
Description: STA 9+11 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1044	9+01.48	40.000'
1045	9+22.72	40.000'
1046	9+22.25	64.395'
1047	9+02.18	64.438'

PARCEL 58 - REQ'D DRWY EASM'T

469.89 SF
Alignment Name: McNUTT ROAD
Description: STA 3+02 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1018	2+88.38	40.000'
1019	3+15.37	40.000'
1020	3+12.27	60.000'
1021	2+92.27	60.000'

PARCEL 56 & 57 - REQ'D DRWY EASM'T

561.82 SF
Alignment Name: McNUTT ROAD
Description: STA 4+90 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1025	4+98.31	62.339'
1026	4+94.69	61.558'
1027	4+77.51	58.510'
1022	4+77.88	40.648'
1023	5+00.70	40.002'
1024	5+05.81	40.000'

PARCEL 54 & 55 - REQ'D DRWY EASM'T

758.20 SF
Alignment Name: McNUTT ROAD
Description: STA 6+41 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1033	6+23.59	39.429'
1036	6+56.42	40.000'
1037	6+52.09	70.183'
1039	6+28.24	69.938'

PARCEL 48 - REQ'D DRWY EASM'T

461.43 SF
Alignment Name: McNUTT ROAD
Description: STA 10+23 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1048	10+09.98	40.000'
1049	10+36.13	40.000'
1050	10+32.90	59.918'
1051	10+12.90	60.084'

PARCEL 3 & 4 - REQ'D DRWY EASM'T

784.46 SF
Alignment Name: McNUTT ROAD
Description: STA 3+35 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1004	3+25.36	-69.906'
1005	3+45.36	-69.906'
1006	3+52.03	-40.000'
1007	3+19.57	-40.000'
1012	3+38.65	-69.906'
1013	3+39.03	-40.000'

PARCEL 56 - REQ'D DRWY EASM'T

664.28 SF
Alignment Name: McNUTT ROAD
Description: STA 5+74 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1028	5+53.77	39.658'
1029	5+97.30	38.972'
1030	5+86.24	61.758'
1031	5+61.78	61.758'

PARCEL 51 - REQ'D DRWY EASM'T

753.63 SF
Alignment Name: McNUTT ROAD
Description: STA 7+69 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1040	7+55.19	40.000'
1041	7+84.16	40.000'
1042	7+85.36	65.290'
1043	7+69.48	71.594'

PARCEL # 8
PERMANENT EASEMENT FOR THE CONST. AND MAINTENANCE OF DRAINAGE

Parcel Area Table

Parcel #	Area SF	Area AC
8	156.85	0.004

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L1	13.65	N59° 53' 07"E			
L2	22.99	N30° 06' 53"W			
L3	26.73	S60° 48' 21"E			

PARCEL # 7
PERMANENT EASEMENT FOR THE CONST. AND MAINTENANCE OF DRAINAGE

Parcel Area Table

Parcel #	Area SF	Area AC
7	803.00	0.018

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C1	20.01	N61° 44' 37"E°	310.54	3° 41' 34"	20.01
L3	26.73	S60° 48' 21"E			
L4	6.35	N59° 53' 07"E			
L5	25.22	N30° 06' 53"W			
L6	47.56	N30° 06' 53"W			

GEORGIA REGISTERED No.2263 LAND SURVEYOR KENNETH E. QUINTANA

.\XREF\GA811newlogo.jpg

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —
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..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

RIGHT OF WAY PLANS

McNUTT ROAD
0+00 to 10+50

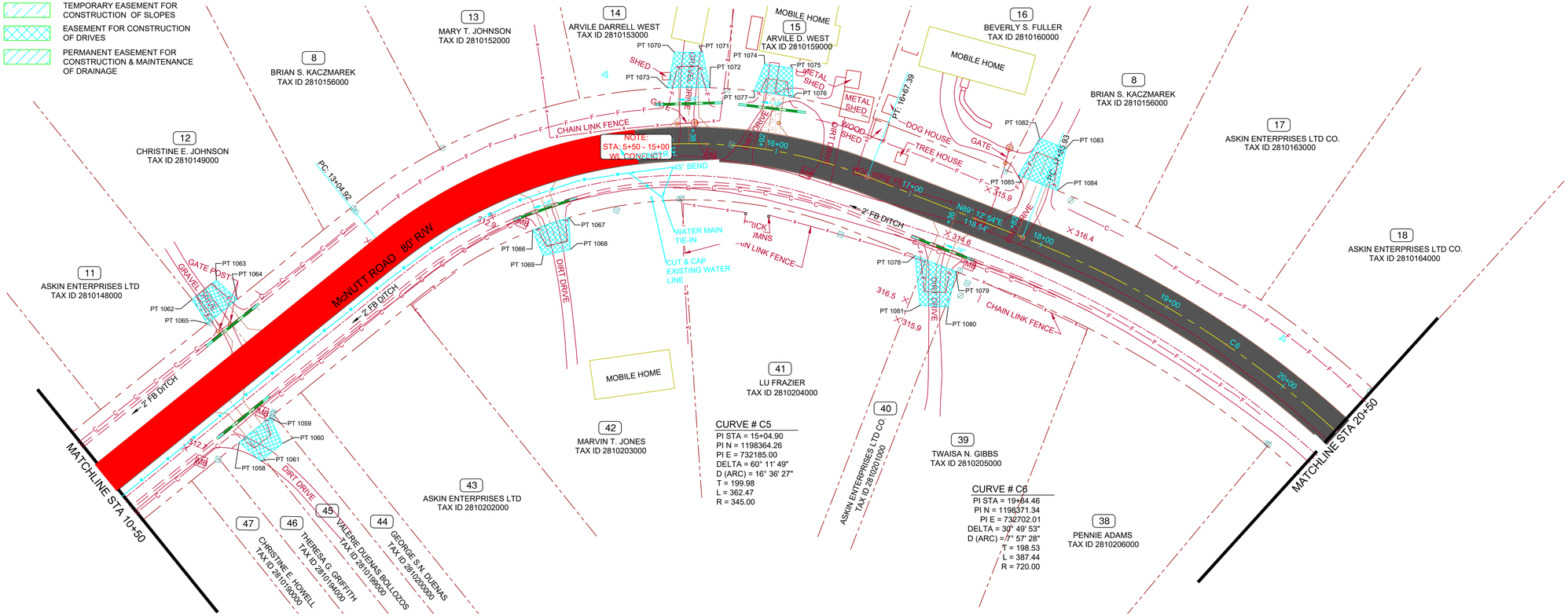
DRAWING NUMBER
60 - 0001

PROJECT: —

TEMPORARY EASEMENT FOR CONSTRUCTION OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

PERMANENT EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



CURVE # C5

PI STA = 15+04.90
PI N = 1198364.26
PI E = 732185.00
DELTA = 60° 11' 49"
D (ARC) = 16° 36' 27"
T = 199.98
L = 362.47
R = 345.00

CURVE # C6

PI STA = 19+64.46
PI N = 1198371.34
PI E = 732702.01
DELTA = 30° 49' 53"
D (ARC) = 7° 57' 28"
T = 198.53
L = 387.44
R = 720.00

PARCEL 45 & 46 - REQ'D DRWY EASM'T

479.33 SF
Alignment Name: McNUTT ROAD
Description: STA 11+51 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1058	11+38.02	40.000'
1059	11+65.95	40.000'
1060	11+61.43	60.000'
1061	11+41.43	60.000'

PARCEL 14 - REQ'D DRWY EASM'T

626.33 SF
Alignment Name: McNUTT ROAD
Description: STA 15+38 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1070	15+29.17	-65.122'
1071	15+46.00	-65.122'
1072	15+51.03	-40.000'
1073	15+24.14	-40.000'

PARCEL 8 - REQ' DRWY EASM'T

744.89 SF
Alignment Name: McNUTT ROAD
Description: STA 17+82 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1082	17+71.64	-70.003'
1083	17+91.14	-70.017'
1084	17+96.25	-40.000'
1085	17+67.22	-40.000'

PARCEL 11 & 12 - REQ'D DRWY EASM'T

496.38 SF
Alignment Name: McNUTT ROAD
Description: STA 11+87 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1062	11+75.79	-60.137'
1063	11+97.79	-60.000'
1064	12+00.76	-40.000'
1065	11+73.29	-40.000'

PARCEL 15 - REQ'D DRWY EASM'T

479.43 SF
Alignment Name: McNUTT ROAD
Description: STA 15+92 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1074	15+83.82	-60.060'
1075	16+00.86	-60.060'
1076	16+04.44	-40.000'
1077	15+79.31	-40.000'

PARCEL 42 - REQ'D DRWY EASM'T

496.44 SF
Alignment Name: McNUTT ROAD
Description: STA 14+24 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1066	14+08.42	40.000'
1067	14+39.37	40.000'
1068	14+32.85	61.955'
1069	14+08.75	59.542'

PARCEL 39, 40, 41 - REQ'D DRWY EASM'T

747.15 SF
Alignment Name: McNUTT ROAD
Description: STA 17+36 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1078	17+19.36	40.000'
1079	17+50.47	40.000'
1080	17+54.61	65.481'
1081	17+35.58	71.621'

GEORGIA REGISTERED No.2263 LAND SURVEYOR KENNETH E. QUINTANA

.\XREF\GA811newlogo.jpg

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

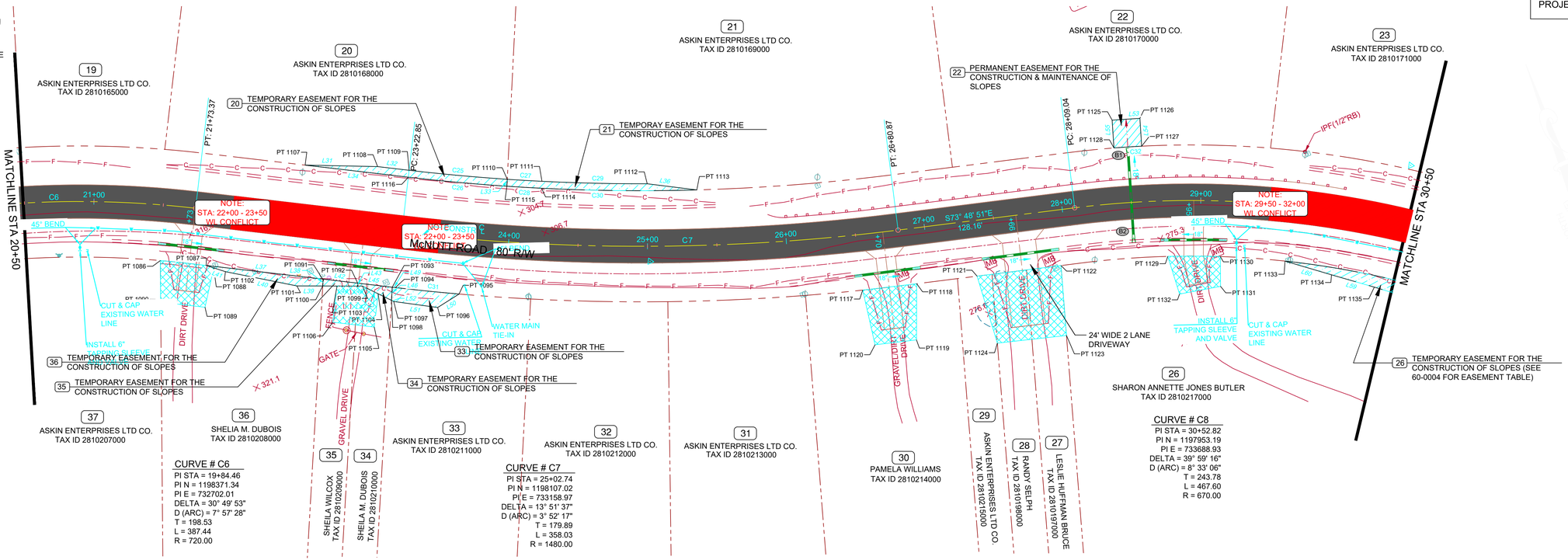
RIGHT OF WAY PLANS

McNUTT ROAD
10+50 to 20+50

DRAWING NUMBER
60 - 0002

PROJECT: —

TEMPORARY EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
PERMANENT EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



CURVE # C6
PI STA = 19+84.46
PI N = 1198371.34
PI E = 732702.01
DELTA = 30° 49' 53"
D (ARC) = 7° 57' 28"
T = 198.53
L = 387.44
R = 720.00

CURVE # C7
PI STA = 25+02.74
PI N = 1198107.02
PI E = 733158.97
DELTA = 13° 51' 37"
D (ARC) = 3° 52' 17"
T = 179.89
L = 358.03
R = 1480.00

CURVE # C8
PI STA = 30+52.82
PI N = 1197953.19
PI E = 733688.93
DELTA = 39° 59' 16"
D (ARC) = 8° 33' 06"
T = 243.78
L = 467.60
R = 670.00

PARCEL 36 - REQ'D DRWY EASM'T
1061.21 SF
Alignment Name: McNUTT ROAD
Description: STA 21+73 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1086	21+51.28	40.000'
1087	21+85.70	40.000'
1088	21+91.30	41.105'
1089	21+88.37	70.000'
1090	21+54.40	69.805'

PARCEL 30 - REQ'D DRWY EASM'T
1386.95 SF
Alignment Name: McNUTT ROAD
Description: STA 26+70 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1117	26+51.02	40.000'
1118	26+89.36	40.000'
1119	26+84.12	80.069'
1120	26+55.50	80.072'

PARCEL 26 - REQ'D DRWY EASM'T
833.87 SF
Alignment Name: McNUTT ROAD
Description: STA 28+95 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1129	28+75.19	40.000'
1130	29+15.36	40.000'
1131	29+16.33	61.437'
1132	28+83.78	67.284'

PARCEL 34 & 35 - REQ'DRWY EASM'T
805.66 SF
Alignment Name: McNUTT ROAD
Description: STA 22+96 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1099	22+99.28	41.695'
1103	22+80.99	43.779'
1104	23+10.99	45.868'
1105	23+10.99	70.000'
1106	22+80.99	70.000'

PARCEL 27, 28, 29 - REQ'D DRWY EASM'T
2774.16 SF
Alignment Name: McNUTT ROAD
Description: STA 27+66 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1121	27+33.15	40.000'
1122	27+94.03	40.000'
1123	27+91.64	90.440'
1124	27+41.62	89.663'

PARCEL # 36
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
36	388.39	0.009

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L37	84.77	S59° 57' 13"E			
L38	4.95	S26° 37' 54"W			
L39	18.63	S66° 27' 09"E			
L40	52.43	S55° 19' 33"E			
L41	14.57	S48° 47' 35"E			

PARCEL # 35
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
35	88.31	0.002

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L38	4.95	S26° 37' 54"W			
L42	25.04	S59° 57' 13"E			
L43	2.11	N26° 37' 54"E			
L44	25.04	S66° 27' 09"E			

PARCEL # 34
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
34	126.46	0.003

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L45	25.04	S59° 57' 13"E			
L46	9.50	N26° 37' 54"E			
L47	23.19	S40° 20' 13"E			
L48	3.66	S66° 27' 09"E			

PARCEL # 20
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
20	599.63	0.014

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C25	70.95	S61° 22' 12"E	1435.00	2° 49' 58"	70.94
C26	71.28	S61° 22' 18"E	1440.00	2° 50' 10"	71.27
L31	52.17	N65° 27' 11"W			
L32	22.85	N59° 57' 13"W			
L33	5.00	N26° 12' 55"E			
L34	74.78	S59° 57' 13"E			

PARCEL # 21
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
21	598.97	0.014

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C27	25.00	N63° 17' 08"W	1435.00	0° 59' 54"	25.00
C28	25.00	S63° 17' 14"E	1440.00	0° 59' 41"	25.00
C29	75.82	S65° 17' 54"E	1435.00	3° 01' 38"	75.81
C30	111.76	S66° 00' 29"E	1440.00	4° 26' 48"	111.73
L33	5.00	N26° 12' 55"E			
L36	35.96	N59° 31' 50"W			

PARCEL # 22
PERMANENT EASEMENT FOR THE CONST. AND MAINT. OF DRAINAGE

Parcel Area Table

Parcel #	Area SF	Area AC
22	400.47	0.009

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C32	20.00	N70° 18' 40"W	710.00	1° 36' 50"	20.00
L53	20.00	S70° 18' 40"E			
L54	20.07	S19° 41' 20"W			
L55	20.07	N19° 41' 20"E			

PARCEL # 33
TEMPORARY EASEMENT FOR THE CONST.OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
33	432.95	0.010

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C31	46.05	S60° 49' 18"E	1520.06	1° 44' 09"	46.05
L49	2.28	S59° 57' 13"E			
L50	18.20	N81° 09' 56"E			
L51	31.91	S58° 47' 53"E			
L52	1.79	S40° 20' 13"E			

GEORGIA REGISTERED No.2263 LAND SURVEYOR KENNETH E. QUINTANA

.\XREF\GA811newlogo.jpg

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD ROAD CONSTRUCTION PLANS

REVISION DATES

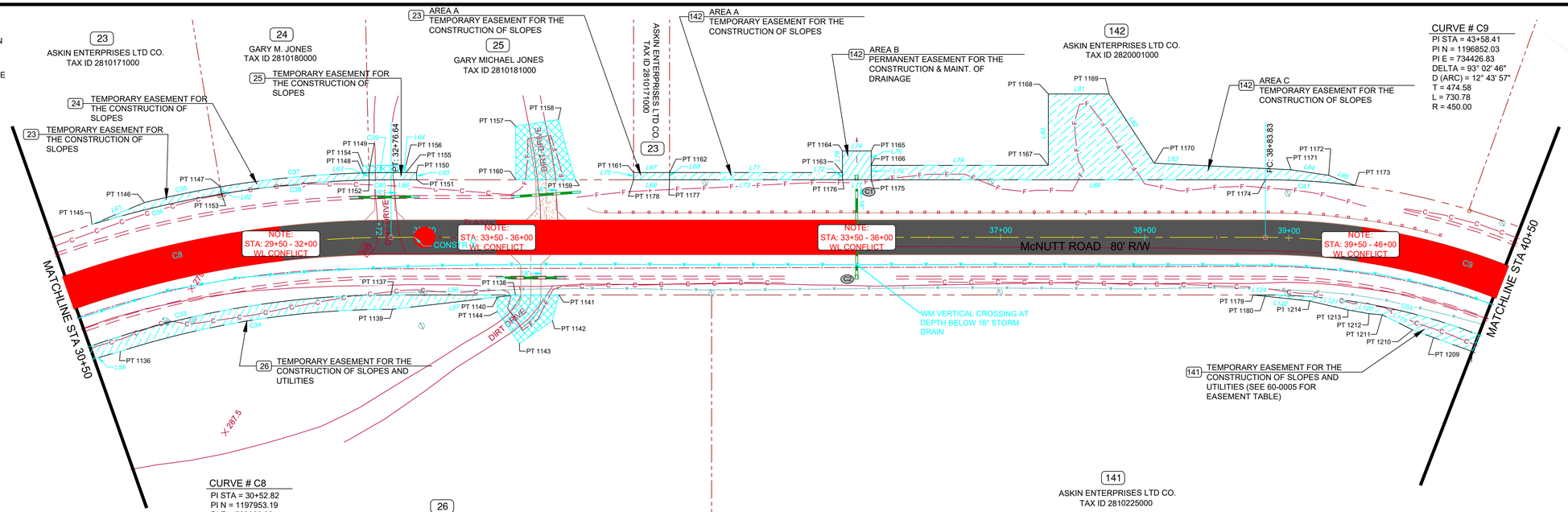
RIGHT OF WAY PLANS

McNUTT ROAD 20+50 to 30+50

DRAWING NUMBER
60 - 0003

PROJECT: —

TEMPORARY EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
PERMANENT EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



CURVE # C8
PI STA = 30+52.82
PI N = 1197953.19
PI E = 733688.93
DELTA = 39° 59' 16"
D (ARC) = 8° 33' 06"
T = 243.78
L = 467.60
R = 670.00

CURVE # C9
PI STA = 43+58.41
PI N = 1196852.03
PI E = 734426.83
DELTA = 93° 02' 46"
D (ARC) = 12° 43' 57"
T = 474.58
L = 730.78
R = 450.00

PARCEL 24 & 25 - REQ'D DRWY EASM'T

153.58 SF
Alignment Name: McNUTT ROAD
Description: STA 32+72 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1148	32+58.27	-45.000'
1154	32+58.35	-50.107'
1155	32+87.03	-45.000'
1156	32+86.98	-50.130'

PARCEL 26 - REQ'D DRWY EASM'T

967.99 SF
Alignment Name: McNUTT ROAD
Description: 33+73 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1138	33+63.01	40.000'
1140	33+50.53	41.461'
1141	33+93.16	40.000'
1142	33+88.70	57.871'
1143	33+65.77	73.708'

PARCEL 25 - REQ'D DRWY EASM'T

1413.83 SF
Alignment Name: McNUTT ROAD
Description: STA 33+85 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1157	33+63.17	-77.177'
1158	33+92.80	-81.845'
1159	34+04.55	-40.000'
1160	33+63.32	-40.000'

PARCEL # 26
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES AND UTILITIES

Parcel Area Table		
Parcel #	Area SF	Area AC
26	2974.71	0.068

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C33	293.02	S47° 09' 03"E°	630.00	26° 38' 55"	290.38
C34	191.92	N42° 36' 35"W°	620.00	17° 44' 09"	191.16
L56	86.37	S33° 49' 35"E			
L57	86.04	N40° 30' 05"W			
L58	31.56	N49° 45' 55"W			
L59	32.08	N50° 32' 06"W			
L60	34.91	N50° 12' 07"W			

PARCEL # 24
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
24	516.76	0.012

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C37	103.71	S39° 12' 55"E°	715.00	8° 18' 40"	103.62
C38	102.99	N39° 12' 55"W°	710.00	8° 18' 40"	102.90
L62	5.00	S46° 37' 45"W			
L63	5.00	N54° 56' 25"E			

PARCEL # 23 - AREA A
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
23 AREA A	125.00	0.003

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L67	25.00	S33° 49' 35"E			
L68	5.00	S56° 10' 25"W			
L69	25.00	N33° 49' 35"W			
L70	5.00	N56° 10' 25"E			

PARCEL # 142 - AREA B
PERMANENT EASEMENT FOR THE CONST. AND MAINT. OF DRAINAGE

Parcel Area Table		
Parcel #	Area SF	Area AC
142 AREA B	400.00	0.009

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L74	20.00	N33° 49' 35"W			
L75	10.00	S56° 10' 25"W			
L76	10.00	N56° 10' 25"E			
L77	20.00	S33° 49' 35"E			
L78	15.00	N56° 10' 25"E			

PARCEL # 23
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
23	358.79	0.008

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C35	53.85	S45° 31' 42"E°	715.00	4° 18' 55"	53.84
C36	92.47	N47° 06' 06"W°	710.00	7° 27' 43"	92.40
L61	39.44	S56° 32' 22"E			
L62	5.00	S46° 37' 45"W			

PARCEL # 25
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
25	165.38	0.004

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C39	15.39	S34° 26' 35"E°	715.00	1° 14' 00"	15.39
C40	15.28	N34° 26' 35"W°	710.00	1° 14' 00"	15.28
L64	17.74	S33° 49' 35"E			
L65	5.00	S56° 10' 25"W			
L66	17.74	N33° 49' 35"W			

PARCEL # 142 - AREA A
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
142 AREA A	600.40	0.014

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L68	5.00	S56° 10' 25"W			
L71	120.08	N33° 49' 35"W			
L72	5.00	N56° 10' 25"E			
L73	120.08	S33° 49' 35"E			

PARCEL # 142 - AREA C
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
142 AREA C	5941.94	0.136

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C41	62.60	N30° 10' 00"W°	490.00	7° 19' 10"	62.55
L79	122.98	S33° 49' 35"E			
L80	49.58	N56° 10' 25"E			
L81	42.26	S33° 49' 35"E			
L82	57.38	S23° 06' 00"W			
L83	95.16	S31° 05' 23"E			
L84	26.32	S25° 20' 54"E			
L85	19.83	S12° 56' 53"E			
L86	273.73	N33° 49' 35"W			

GEORGIA REGISTERED No.2263 LAND SURVEYOR KENNETH E. QUINTANA

.\XREF\GA811newlogo.jpg

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —
Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

RIGHT OF WAY PLANS

McNUTT ROAD
30+50 to 40+50

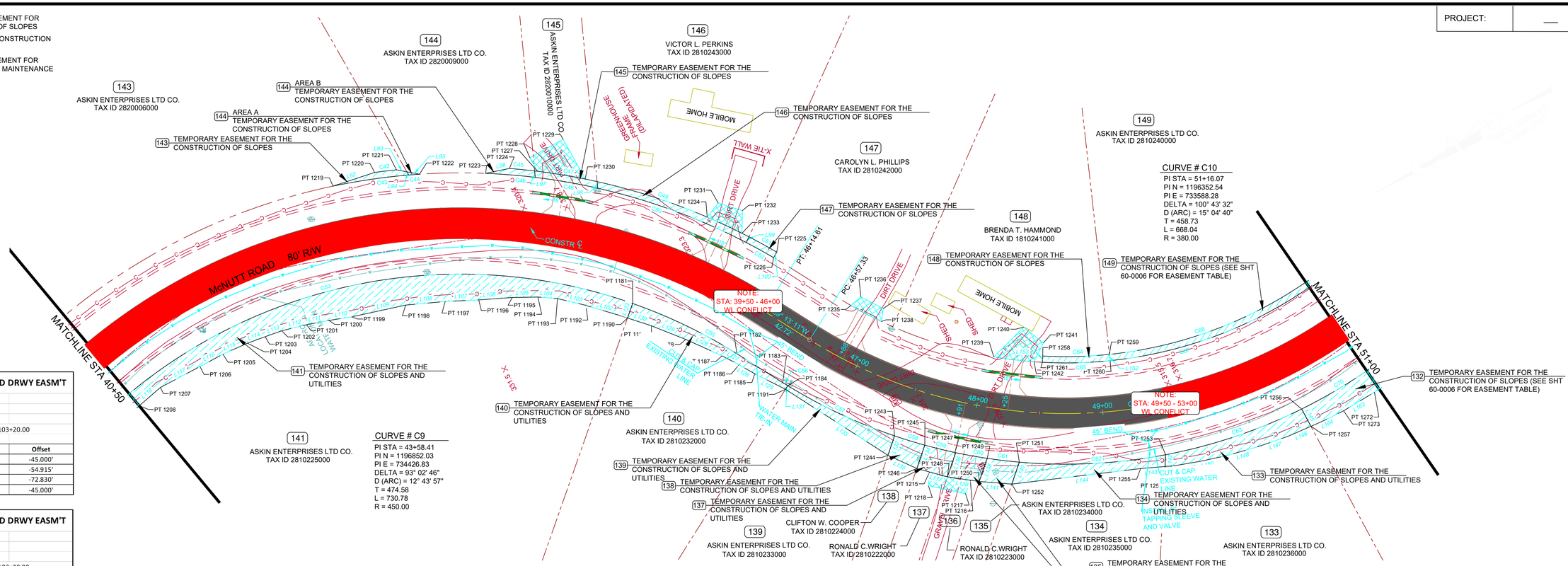
DRAWING NUMBER
60 - 0004

PROJECT: —

TEMPORARY EASEMENT FOR CONSTRUCTION OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

PERMANENT EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



PARCEL 136 & 137 - REQ'D DRWY EASM'T

127.18 SF

Alignment Name: McNUTT ROAD

Description: STA 47+91 RT

Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1227	44+17.25	-45.000'
1228	44+10.84	-54.915'
1229	44+31.91	-72.830'
1230	44+52.04	-45.000'

PARCEL 144 & 145 - REQ'D DRWY EASM'T

712.62 SF

Alignment Name: McNUTT ROAD

Description: STA 44+38 LT

Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1227	44+17.25	-45.000'
1228	44+10.84	-54.915'
1229	44+31.91	-72.830'
1230	44+52.04	-45.000'

PARCEL 146 - REQ'D DRWY EASM'T

374.85 SF

Alignment Name: McNUTT ROAD

Description: STA 45+58 LT

Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1231	45+47.20	-58.635'
1232	45+64.70	-61.211'
1233	45+71.51	-45.000'
1234	45+43.97	-45.000'

PARCEL 147 - REQ'D DRWY EASM'T

233.64 SF

Alignment Name: McNUTT ROAD

Description: STA 46+88 LT

Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1235	46+72.03	-40.000'
1236	46+75.99	-49.849'
1237	46+99.02	-49.849'
1238	47+02.52	-40.000'

PARCEL 148 - REQ'D DRWY EASM'T

590.42 SF

Alignment Name: McNUTT ROAD

Description: STA 48+25 LT

Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1239	48+06.83	-40.000'
1240	48+30.22	-66.509'
1241	48+50.01	-55.378'
1242	48+42.70	-40.000'

PARCEL # 143
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
143	197.05	0.005

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C42	17.35	N20° 09' 59"E	495.00	2° 00' 28"	17.35
C43	60.52	N18° 42' 38"E	490.00	7° 04' 37"	60.48
L92	34.66	S8° 52' 39"W			
L93	8.39	S37° 50' 17"W			
L94	2.93	S87° 17' 03"W			

PARCEL # 144 - AREA A
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
144 AREA A	11.22	0.000

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C44	8.56	N22° 44' 57"E	490.00	1° 00' 02"	8.56
L95	10.17	S37° 50' 17"W			

PARCEL # 141
TEMPORARY EASEMENT FOR THE

PARCEL # 144 - AREA B
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
144 AREA B	147.39	0.003

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C45	20.01	N32° 40' 41"E	495.00	2° 18' 58"	20.01
C46	39.38	N31° 39' 39"E	490.00	4° 36' 17"	39.37
L96	19.24	S15° 22' 43"W			
L97	5.12	N68° 25' 38"W			

PARCEL # 145
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
145	250.49	0.006

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C47	50.08	N36° 44' 03"E	495.00	5° 47' 47"	50.06
C48	50.12	N36° 53' 36"E	490.00	5° 51' 37"	50.09
L97	5.12	N68° 25' 38"W			
L98	5.26	N68° 25' 38"W			

PARCEL # 146
TEMPORAY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
146	633.36	0.015

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C49	128.01	S47° 02' 27"W	495.00	14° 48' 59"	127.65
C50	125.34	N47° 09' 05"E	490.00	14° 39' 22"	125.00
L98	5.26	N68° 25' 38"W			
L99	5.01	N38° 31' 56"W			

PARCEL # 147
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
147	124.33	0.003

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C51	25.12	N55° 54' 11"E	495.00	2° 54' 28"	25.12
C52	24.61	S55° 55' 06"W	490.00	2° 52' 39"	24.61
L100	5.00	S32° 38' 35"E			

PARCEL # 141
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES AND UTILITIES

Parcel Area Table

Parcel #	Area SF	Area AC
141	8333.98	0.191

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C53	574.15	N6° 17' 28"E	410.00	80° 14' 06"	528.37
L102	30.81	S43° 37' 43"W			
L103	21.75	S40° 17' 53"W			
L104	15.52	S31° 39' 33"W			
L105	20.21	S25° 59' 13"W			
L106	26.58	S22° 58' 52"W			
L107	26.54	S24° 19' 00"W			
L108	31.32	S21° 47' 38"W			
L109	43.57	S14° 45' 27"W			
L110	18.29	S18° 07' 28"W			
L111	17.97	S16° 12' 36"W			
L112	20.17	S13° 18' 00"W			
L113	13.91	S7° 25' 47"W			
L114	14.90	S6° 56' 06"W			
L115	21.27	S2° 50' 12"W			
L116	20.58	S1° 11' 48"E			
L117	35.39	S0° 51' 18"E			
L118	66.14	S13° 51' 45"E			
L119	23.59	S7° 25' 27"E			
L120	15.06	S23° 42' 18"E			
L121	27.21	S20° 45' 56"E			
L122	39.39	S27° 41' 26"E			
L123	12.18	S43° 35' 29"E			
L124	8.50	N33° 49' 35"W			

GEORGIA REGISTERED No.2263 LAND SURVEYOR KENNETH E. QUINTANA

.\XREF\GA811newlogo.jpg

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

RIGHT OF WAY PLANS

McNUTT ROAD
40+50 to 51+00

DRAWING NUMBER
60 - 0005

PROJECT: ___

PARCEL # 140
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES AND UTILITIES

Parcel Area Table		
Parcel #	Area SF	Area AC
140	1158.49	0.027

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C55	91.67	N52° 48' 51"E	410.00	12° 48' 39"	91.48
C56	4.70	N58° 53' 56"E	420.00	0° 38' 30"	4.70
L123	12.18	S43° 35' 29"E			
L125	27.19	S53° 45' 48"W			
L126	14.33	S57° 06' 53"W			
L127	15.18	S54° 39' 15"W			
L128	31.46	S51° 21' 40"W			
L129	29.20	S48° 42' 56"W			
L130	19.84	S45° 10' 04"W			
L131	3.35	S30° 46' 49"E			

PARCEL # 136
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES AND UTILITIES

Parcel Area Table		
Parcel #	Area SF	Area AC
136	490.57	0.011

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C60	25.29	S37° 16' 21"W	420.00	3° 26' 58"	25.28
L136	20.22	N44° 09' 56"W			
L138	19.36	N43° 57' 10"W			
L139	25.35	N35° 19' 28"E			

PARCEL # 148
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
148	265.97	0.006

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C64	52.78	S25° 39' 21"W	335.00	9° 01' 38"	52.73
C65	53.61	N25° 39' 09"E	340.00	9° 02' 01"	53.55
L152	5.00	N69° 17' 25"W			
L153	5.00	S59° 49' 50"E			

PARCEL # 139
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES AND UTILITIES

Parcel Area Table		
Parcel #	Area SF	Area AC
139	752.39	0.017

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C57	93.42	S52° 12' 22"W	420.00	12° 44' 37"	93.22
L131	3.35	S30° 46' 49"E			
L132	16.25	N44° 12' 15"W			
L133	96.30	N59° 51' 36"E			

PARCEL # 135
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES AND UTILITIES

Parcel Area Table		
Parcel #	Area SF	Area AC
135	467.88	0.011

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C61	25.57	S33° 48' 14"W	420.00	3° 29' 15"	25.56
L138	19.36	N43° 57' 10"W			
L140	18.33	N44° 04' 26"W			
L141	25.84	N31° 36' 13"E			

PARCEL # 138
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES AND UTILITIES

Parcel Area Table		
Parcel #	Area SF	Area AC
138	443.30	0.010

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C58	25.01	S44° 07' 41"W	420.00	3° 24' 45"	25.01
L132	16.25	N44° 12' 15"W			
L134	19.47	N44° 09' 56"W			
L135	25.11	N51° 29' 55"E			

PARCEL # 134
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES AND UTILITIES

Parcel Area Table		
Parcel #	Area SF	Area AC
134	1199.69	0.028

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C62	116.09	S24° 08' 29"W	420.00	15° 50' 15"	115.73
L140	18.33	N44° 04' 26"W			
L142	9.34	N60° 02' 37"W			
L143	19.34	N22° 18' 38"E			
L144	102.50	N20° 09' 41"E			

PARCEL # 137
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES AND UTILITIES

Parcel Area Table		
Parcel #	Area SF	Area AC
137	492.96	0.011

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C59	25.10	S40° 42' 34"W	420.00	3° 25' 29"	25.10
L134	19.47	N44° 09' 56"W			
L136	20.22	N44° 09' 56"W			
L137	25.04	N42° 24' 21"E			

PARCEL # 133
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES AND UTILITIES

Parcel Area Table		
Parcel #	Area SF	Area AC
133	1480.43	0.034

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C63	113.72	S8° 27' 57"W	420.00	15° 30' 51"	113.38
L142	9.34	N60° 02' 37"W			
L145	15.50	S88° 47' 54"W			
L146	19.37	N3° 27' 03"E			
L147	24.56	N7° 48' 00"E			
L148	26.34	N11° 04' 32"E			
L149	21.24	N17° 24' 28"E			
L150	21.43	N14° 46' 22"E			
L151	7.15	N22° 18' 38"E			

GEORGIA REGISTERED No.2263 LAND SURVEYOR KENNETH E. QUINTANA

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GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
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Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

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DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

RIGHT OF WAY PLANS

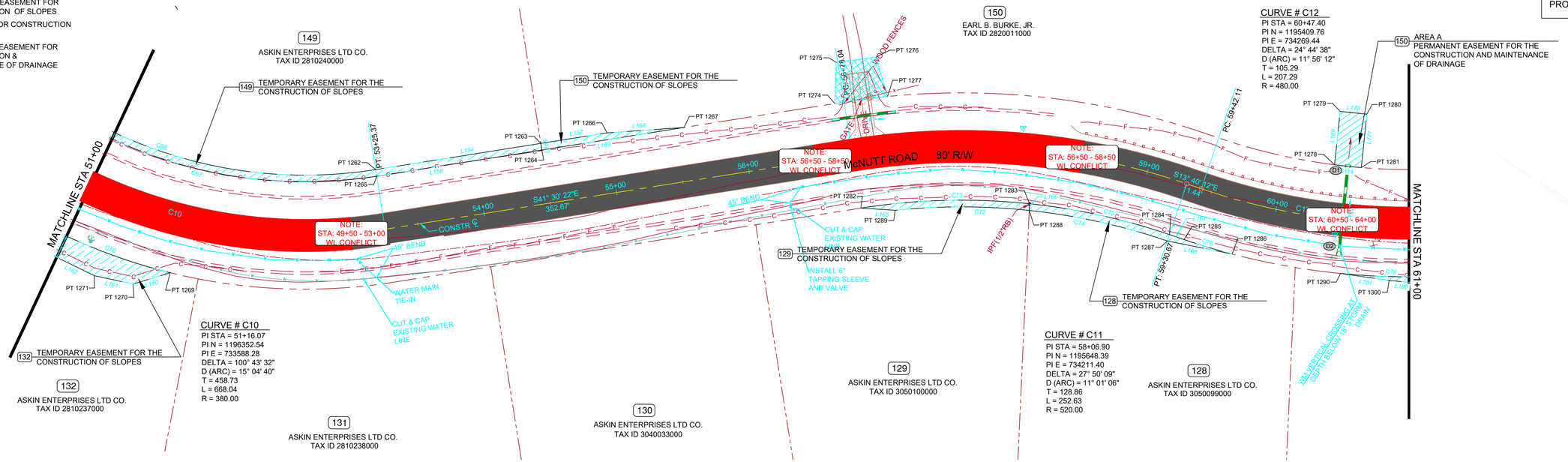
McNUTT ROAD
40+50 to 51+00

DRAWING NUMBER

60 - 0005A

PROJECT: —

TEMPORARY EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
PERMANENT EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



PARCEL 150 - REQ'D DRWY EASM'T

1048.13 SF
Alignment Name: McNUTT ROAD
Description: STA 56+90 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1274	56+71.13	-40.000'
1275	56+76.91	-70.176'
1276	57+03.48	-70.177'
1277	57+08.44	-40.000'

PARCEL # 149
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
149	2468.08	0.057

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C66	366.30	S10° 10' 55"E	335.00	62° 38' 54"	348.32
C67	371.72	N10° 11' 06"W	340.00	62° 38' 31"	353.49
L152	5.00	N69° 17' 25"W			
L154	124.61	S41° 30' 22"E			
L155	5.00	S48° 29' 38"W			
L156	124.61	N41° 30' 22"W			

PARCEL # 129
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
129	568.41	0.013

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C72	100.08	S32° 26' 43"E	475.00	12° 04' 18"	99.89
C73	126.17	N33° 58' 33"W	480.00	15° 03' 37"	125.81
L165	25.70	S28° 46' 39"E			
L166	5.01	S60° 06' 23"W			

PARCEL # 150 - AREA A
PERMANENT EASEMENT FOR THE CONST. AND MAINTENANCE OF DRAINAGE

Parcel Area Table		
Parcel #	Area SF	Area AC
150 AREA A	802.54	0.018

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C114	20.00	S26° 32' 54"E	440.00	2° 36' 16"	20.00
L169	40.05	S63° 27' 06"W			
L170	20.00	N26° 32' 54"W			
L171	40.05	N63° 27' 06"E			

PARCEL # 132
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
132	2237.34	0.051

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C70	59.64	S3° 21' 35"E	420.00	8° 08' 12"	59.59
L145	15.50	S88° 47' 54"W			
L160	28.98	N49° 25' 59"W			
L161	29.45	N20° 20' 12"W			
L162	35.78	N6° 26' 28"W			
L163	28.45	N3° 59' 58"W			
L164	19.43	N0° 42' 52"E			

PARCEL # 128
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
128	637.60	0.015

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C74	105.61	S20° 02' 23"E	475.00	12° 44' 22"	105.40
C75	107.03	N20° 03' 29"W	480.00	12° 46' 33"	106.81
C76	37.43	N15° 43' 56"W	520.00	4° 07' 28"	37.42
L166	5.01	S60° 06' 23"W			
L167	11.44	N13° 40' 12"W			
L168	49.25	S21° 04' 28"E			

PARCEL # 150
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
150	393.52	0.009

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L155	5.00	S48° 29' 38"W			
L157	50.02	S41° 30' 22"E			
L158	57.58	S36° 31' 27"E			
L159	107.38	N41° 30' 22"W			

GEORGIA REGISTERED No.2263 LAND SURVEYOR KENNETH E. QUINTANA

.\XREF\GA811newlogo.jpg

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —
Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

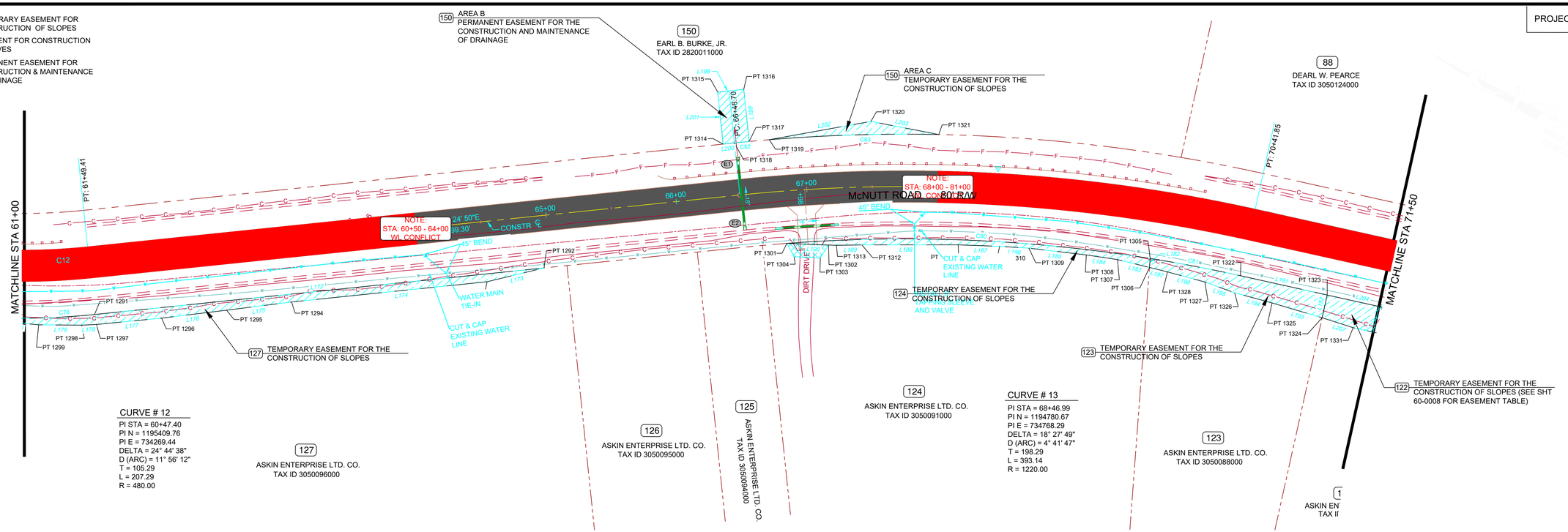
RIGHT OF WAY PLANS

McNUTT ROAD
51+00 to 61+00

DRAWING NUMBER
60 - 0006

PROJECT: —

TEMPORARY EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
PERMANENT EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



CURVE # 12
PI STA = 60+47.40
PI N = 1195409.76
PI E = 734269.44
DELTA = 24° 44' 38"
D (ARC) = 11° 56' 12"
T = 105.29
L = 207.29
R = 480.00

CURVE # 13
PI STA = 68+46.99
PI N = 1194780.67
PI E = 734768.29
DELTA = 18° 27' 49"
D (ARC) = 4° 41' 47"
T = 198.29
L = 393.14
R = 1220.00

PARCEL 124 - REQ'D DRWY EASM'T

262.59 SF
Alignment Name: McNUTT ROAD
Description: STA 66+98 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1301	66+81.73	40.000'
1302	67+14.46	43.256'
1303	67+07.41	52.890'
1304	66+86.65	50.675'

PARCEL # 127
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
127	2561.48	0.059

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C78	104.89	S32° 38' 08"E	520.00	11° 33' 24"	104.71
L172	344.94	S38° 24' 50"E			
L173	44.75	N46° 07' 08"W			
L174	150.00	N38° 24' 50"W			
L175	50.01	N39° 42' 25"W			
L176	50.01	N39° 26' 46"W			
L177	50.00	N38° 04' 25"W			
L178	11.31	N35° 09' 33"W			
L179	32.77	N32° 01' 37"W			
L180	25.92	N27° 09' 06"W			
L181	36.60	N24° 17' 58"W			

PARCEL # 124
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
124	1087.60	0.025

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C80	278.16	N30° 06' 36"W	1180.00	13° 30' 22"	277.51
L182	6.90	N61° 46' 54"E			
L183	25.14	S18° 37' 38"E			
L184	24.07	S24° 00' 26"E			
L185	44.14	S25° 45' 37"E			
L186	22.37	S28° 59' 53"E			
L187	31.66	S30° 23' 36"E			
L188	73.54	S32° 31' 40"E			
L189	19.32	S33° 26' 37"E			
L190	37.92	S30° 12' 57"E			

PARCEL # 123
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
123	1747.84	0.040

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C81	70.16	N21° 39' 13"W	1180.00	3° 24' 23"	70.15
L182	6.90	N61° 46' 54"E			
L191	67.85	N19° 57' 02"W			
L192	17.81	N70° 02' 58"E			
L193	39.84	S15° 59' 37"E			
L194	29.59	S17° 18' 36"E			
L195	24.18	S12° 35' 06"E			
L196	29.59	S17° 18' 36"E			
L197	14.14	S18° 37' 38"E			

PARCEL # 150 - AREA B
PERMANENT EASEMENT FOR THE CONST. AND MAINTENANCE OF DRAINAGE

Parcel Area Table		
Parcel #	Area SF	Area AC
150 AREA B	800.18	0.018

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C82	11.33	N38° 09' 23"W	1260.00	0° 30' 55"	11.33
L198	20.00	S38° 24' 50"E			
L199	40.05	S51° 35' 10"W			
L200	8.67	N38° 24' 50"W			
L201	40.00	N51° 35' 10"E			

PARCEL # 150 - AREA C
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
150 AREA C	607.03	0.014

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C83	129.54	N34° 15' 14"W	1260.00	5° 53' 27"	129.49
L202	78.84	S42° 42' 42"E			
L203	52.80	S21° 34' 00"E			

GEORGIA REGISTERED No.2263 LAND SURVEYOR KENNETH E. QUINTANA

.\XREF\GA811newlogo.jpg

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —
Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

RIGHT OF WAY PLANS

McNUTT ROAD
61+00 to 71+50

DRAWING NUMBER
60 - 0007

PROJECT: —

TEMPORARY EASEMENT FOR CONSTRUCTION OF SLOPES

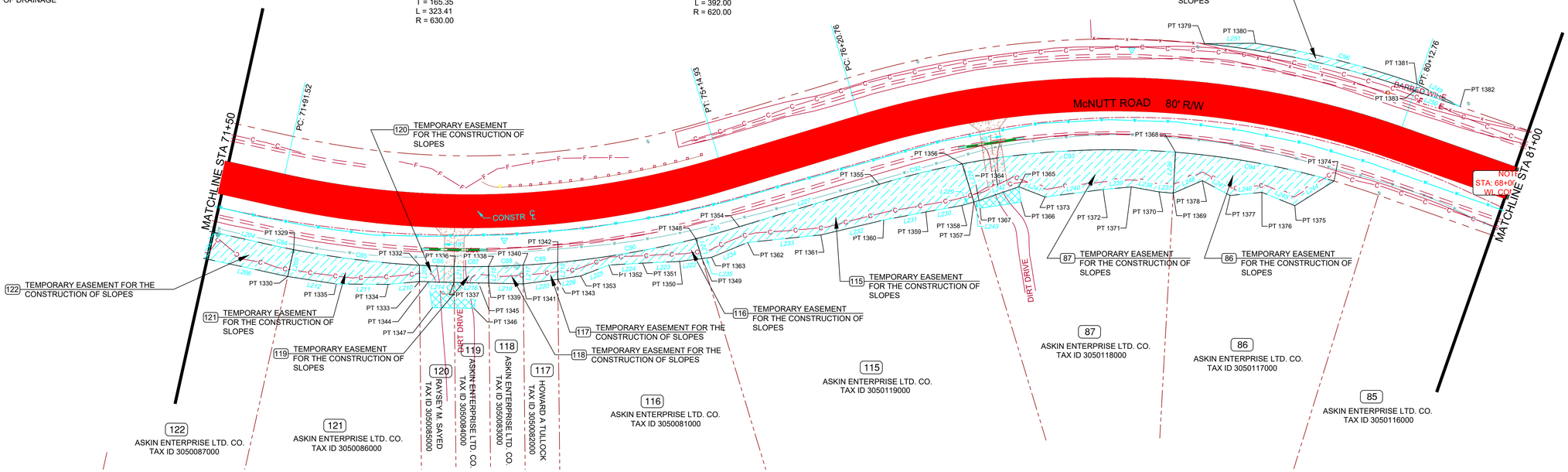
EASEMENT FOR CONSTRUCTION OF DRIVES

PERMANENT EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE

CURVE # C14
PI STA = 73+56.87
PI N = 1194298.16
PI E = 734943.44
DELTA = 29° 24' 47"
D (ARC) = 9° 05' 40"
T = 165.35
L = 323.41
R = 630.00

CURVE # C15
PI STA = 78+23.57
PI N = 1193989.47
PI E = 735303.13
DELTA = 36° 13' 33"
D (ARC) = 9° 14' 29"
T = 202.80
L = 392.00
R = 620.00

88 DEARL W. PEARCE TAX ID 3050124000



PARCEL 119 &120 - REQ' D DRWY EASM'T

615.14 SF	
Alignment Name: McNUTT ROAD	
Description:	73+18 RT
Station Range: Start: 0+00.00, End: 103+20.00	

Point	Station	Offset
1337	73+18.59	51.424'
1344	73+01.42	51.577'
1345	73+34.90	51.748'
1346	73+31.79	70.161'
1347	73+04.80	70.161'

PARCEL 87 - REQ'D DRWY EASM'T

252.79 SF	
Alignment Name: McNUTT ROAD	
Description:	STA 77+11 RT
Station Range: Start: 0+00.00, End: 103+20.00	

Point	Station	Offset
1364	76+94.49	68.266'
1365	77+28.04	62.684'
1366	77+28.38	73.898'
1367	76+94.32	73.898'

PARCEL # 122
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
122	1964.75	0.045

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C84	18.19	S20° 43' 42"E	670.00	1° 33' 19"	18.19
L192	17.81	N70° 02' 58"E			
L204	81.81	S19° 57' 02"E			
L205	19.87	S70° 02' 58"W			
L206	75.26	N20° 18' 23"W			
L207	24.85	N14° 41' 22"W			

PARCEL # 121
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
121	1606.22	0.037

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C85	91.61	S25° 25' 23"E	670.00	7° 50' 04"	91.54
L205	19.87	S70° 02' 58"W			
L209	11.77	S56° 55' 36"W			
L210	22.79	N37° 43' 30"W			
L211	37.46	N32° 00' 04"W			
L212	35.53	N23° 45' 04"W			

PARCEL # 120
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
120	288.06	0.007

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C86	25.03	S30° 24' 37"E	670.00	2° 08' 25"	25.03
L209	11.77	S56° 55' 36"W			
L213	11.43	S56° 55' 36"W			
L214	25.01	N31° 11' 53"W			

PARCEL # 119
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
119	291.14	0.007

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C87	25.00	S32° 32' 59"E	670.00	2° 08' 17"	25.00
L213	11.43	S56° 55' 36"W			
L215	12.02	S56° 55' 36"W			
L216	25.01	N31° 11' 53"W			

PARCEL # 118
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
118	317.55	0.007

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C88	25.01	S34° 41' 17"E	670.00	2° 08' 20"	25.01
L215	12.02	S56° 55' 36"W			
L217	13.54	S56° 55' 36"W			
L218	25.01	N31° 11' 53"W			

PARCEL # 117
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
117	318.86	0.007

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C89	25.06	S36° 49' 44"E	670.00	2° 08' 33"	25.05
L217	13.54	S56° 55' 36"W			
L219	12.12	S56° 55' 36"W			
L220	25.19	N40° 02' 59"W			

PARCEL # 116
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
116	1064.60	0.024

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C90	101.52	S42° 14' 27"E	670.00	8° 40' 53"	101.42
L219	12.12	S56° 55' 36"W			
L221	14.98	S40° 38' 11"W			
L222	16.22	N39° 46' 04"W			
L223	26.88	N35° 06' 54"W			
L224	24.36	N35° 43' 40"W			
L225	21.89	N53° 40' 04"W			
L226	16.69	N40° 44' 55"W			

PARCEL # 115
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
115	4424.17	0.102

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C91	32.53	S47° 58' 21"E	670.00	2° 46' 56"	32.53
C92	61.76	S46° 18' 47"E	580.00	6° 06' 04"	61.73
L221	14.98	S40° 38' 11"W			
L227	105.83	S49° 21' 49"E			
L228	28.82	S40° 38' 11"W			
L229	9.11	N48° 33' 49"W			
L230	26.37	N42° 46' 17"W			
L231	31.01	N43° 20' 51"W			
L232	46.71	N45° 45' 45"W			
L233	53.21	N38° 24' 09"W			
L234	28.17	N54° 48' 25"W			
L235	7.05	N40° 05' 15"W			

GEORGIA REGISTERED No.2263 LAND SURVEYOR KENNETH E. QUINTANA

.\XREF\GA811newlogo.jpg

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —
Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

RIGHT OF WAY PLANS

McNUTT ROAD
71+50 to 81+00

DRAWING NUMBER
60 - 0008

PROJECT: ___

PARCEL # 87
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
87	4245.85	0.097

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C93	154.84	N35° 36' 53"W"	580.00	15° 17' 44"	154.38
L228	28.82	S40° 38' 11"W			
L236	29.66	N60° 38' 50"E			
L237	10.34	S27° 21' 48"E			
L238	20.36	S22° 17' 14"E			
L239	20.46	S37° 45' 53"E			
L240	42.28	S39° 51' 17"E			
L241	20.40	S11° 13' 24"E			
L242	30.52	S51° 32' 12"E			
L243	3.81	S48° 33' 49"E			

PARCEL # 88
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
88	772.81	0.018

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C95	156.08	S19° 54' 46"E"	660.00	13° 32' 59"	155.72
C96	120.69	N18° 20' 13"W"	665.00	10° 23' 54"	120.52
L249	35.15	N4° 57' 34"W			
L250	34.79	S13° 08' 17"E			
L251	36.78	N32° 55' 23"W			

PARCEL # 86
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
86	2401.17	0.055

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C94	116.76	N22° 12' 00"W"	580.00	11° 32' 01"	116.56
L236	29.66	N60° 38' 50"E			
L244	33.53	S64° 37' 48"E			
L245	25.71	S10° 24' 40"E			
L246	23.08	S38° 09' 46"E			
L247	22.76	S4° 24' 47"E			
L248	22.91	S55° 45' 48"E			

GEORGIA REGISTERED No.2263 LAND SURVEYOR KENNETH E. QUINTANA

.\XREF\GA811newlogo.jpg

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

RIGHT OF WAY PLANS

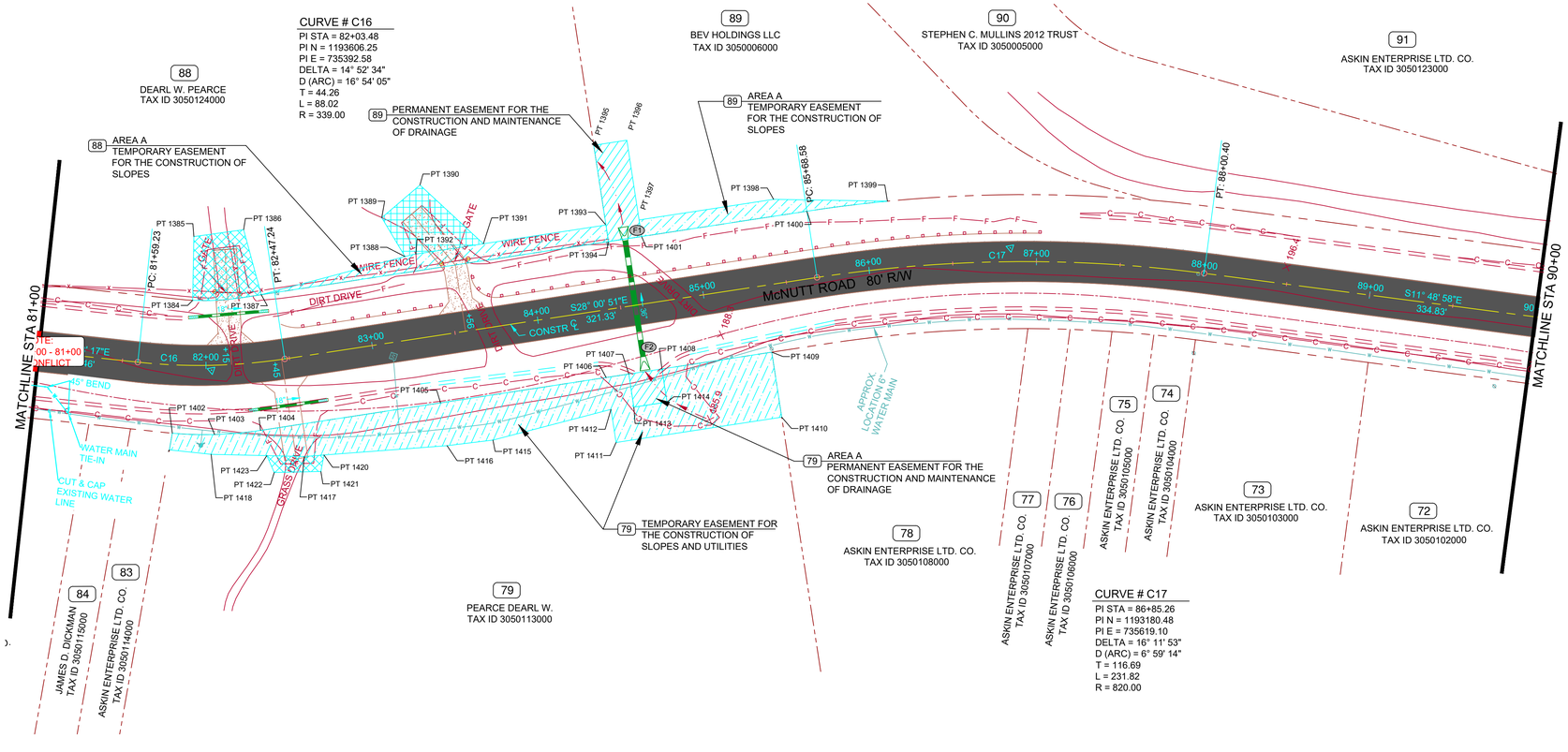
McNUTT ROAD
71+50 to 81+00

DRAWING NUMBER

60 - 0008A

PROJECT: —

TEMPORARY EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
PERMANENT EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



NOTE:
ALL DRIVEWAY WIDTHS ARE 14' UNLESS OTHERWISE NOTED.

PARCEL 79 - REQ'D DRWY EASM'T

295.66 SF
Alignment Name: McNUTT ROAD
Description: STA 82+45 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1417	82+50.00	59.352'
1420	82+61.67	60.242'
1421	82+58.37	69.678'
1422	82+33.44	66.385'
1423	82+30.62	55.916'

PARCEL 88 - REQ'D DRWY EASM'T

1407.03 SF
Alignment Name: McNUTT ROAD
Description: STA 82+15 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1384	81+91.56	-38.855'
1385	81+91.91	-76.927'
1386	82+30.77	-79.668'
1387	82+38.06	-39.936'

PARCEL 88 - REQ'D DRWY EASM'T

1354.11 SF
Alignment Name: McNUTT ROAD
Description: STA 83+56 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1388	83+27.38	-49.526'
1389	83+17.21	-74.560'
1390	83+42.70	-90.388'
1391	83+74.78	-50.000'

PARCEL # 79
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES AND DRAINAGE AND UTILITIES

Parcel Area Table		
Parcel #	Area SF	Area AC
79	8901.34	0.20

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C97	25.27	S17° 32' 48"E	220.00	6° 34' 52"	25.26
C98	27.56	S24° 25' 32"E	220.00	7° 10' 37"	27.54
L253	25.05	N13° 08' 17"W			
L254	10.06	N80° 36' 36"E			
L255	108.63	S28° 00' 51"E			
L257	85.37	N23° 38' 56"W			
L258	55.69	N17° 59' 14"W			
L259	100.00	S28° 00' 51"E			
L261	72.80	N33° 53' 27"W			
L262	27.59	N26° 15' 29"W			
L263	13.68	S28° 00' 51"E			
L264	20.00	S61° 59' 09"W			
L265	20.00	S28° 00' 51"E			
L266	20.00	N61° 59' 09"E			
L267	66.32	S28° 00' 51"E			
L268	39.24	S61° 59' 09"W			
L269	100.00	N28° 00' 51"W			
L270	20.00	N61° 59' 09"E			

PARCEL # 79 - AREA A
PERMANENT EASEMENT FOR THE CONST. AND MAINTENANCE OF DRAINAGE

Parcel Area Table		
Parcel #	Area SF	Area AC
79 AREA A	400.00	0.009

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L264	20.00	S61° 59' 09"W			
L265	20.00	S28° 00' 51"E			
L266	20.00	N61° 59' 09"E			
L271	20.00	N28° 00' 51"W			

PARCEL # 89
PERMANENT EASEMENT FOR THE CONST. AND MAINTENANCE OF DRAINAGE

Parcel Area Table		
Parcel #	Area SF	Area AC
89	1163.28	0.027

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L274	9.98	N61° 59' 09"E			
L276	48.16	N61° 59' 09"E			
L277	20.00	S28° 00' 51"E			
L278	48.16	S61° 59' 09"W			
L279	9.99	S61° 59' 09"W			
L280	20.00	N28° 00' 51"W			

PARCEL # 88 - AREA A
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
88 AREA A	1628.85	0.037

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L272	93.18	N34° 08' 47"W			
L273	117.00	N28° 00' 51"W			
L274	9.98	N61° 59' 09"E			
L275	209.65	S28° 00' 22"E			

PARCEL # 89 - AREA A
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
89 AREA A	1122.61	0.026

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L279	9.99	S61° 59' 09"W			
L281	81.21	N28° 00' 51"W			
L282	67.94	N18° 23' 09"W			
L283	99.78	S28° 00' 22"E			

GEORGIA REGISTERED No.2263 LAND SURVEYOR KENNETH E. QUINTANA

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GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —

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CHECKED BY	KEQ	03-12-20

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

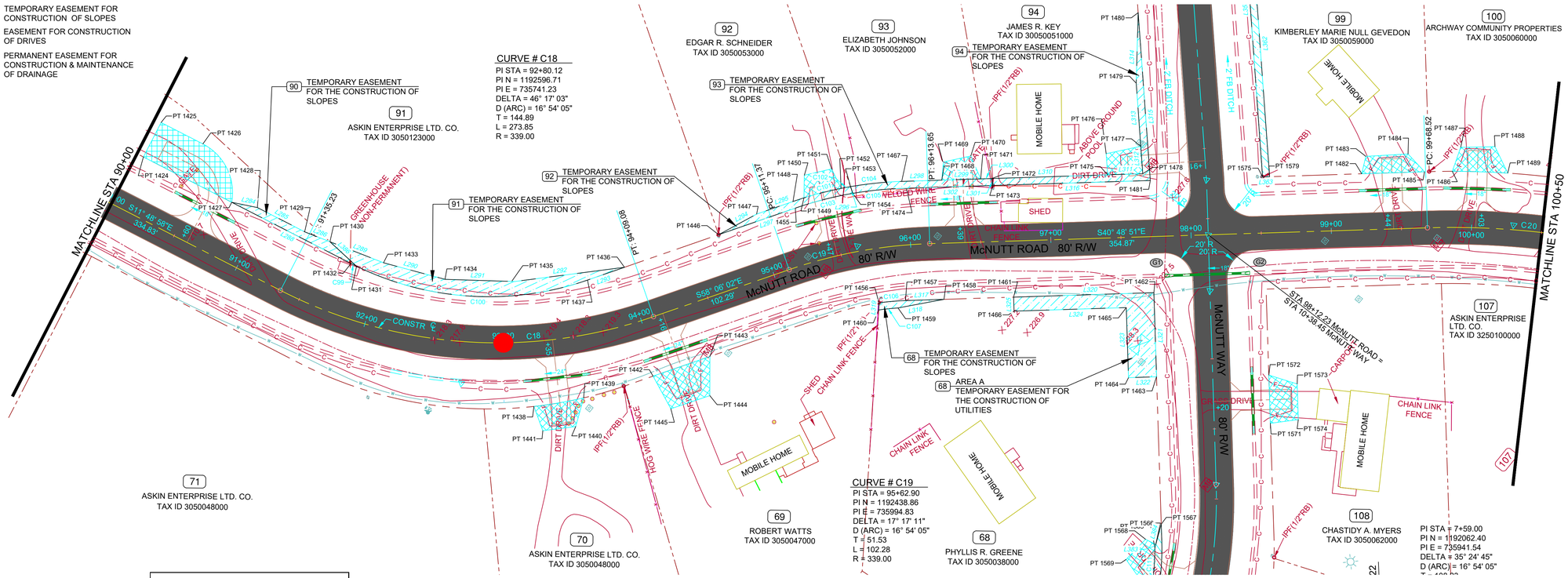
RIGHT OF WAY PLANS

McNUTT ROAD
81+00 to 90+00

DRAWING NUMBER
60 - 0009

PROJECT: —

TEMPORARY EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
PERMANENT EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



PARCEL 90 - REQ'D DRWY EASM'T

1678.92 SF
Alignment Name: McNUTT ROAD
Description: STA 90+60 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1424	90+04.91	-40.000'
1425	90+04.91	-67.592'
1426	90+38.35	-67.592'

PARCEL 93 - REQ'D DRWY EASM'T

353.09 SF
Alignment Name: McNUTT ROAD
Description: STA 96+39 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1468	96+23.69	-45.000'
1469	96+24.77	-58.373'
1470	96+44.90	-61.525'
1471	96+51.45	-45.000'

PARCEL 70 - REQ'D DRWY EASM'T

544.22 SF
Alignment Name: McNUTT ROAD
Description: STA 93+35 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1438	93+18.72	46.225'
1439	93+50.41	44.186'
1440	93+42.96	63.530'
1441	93+23.06	63.918'

PARCEL 99 - REQ'D DRWY EASM'T

476.10 SF
Alignment Name: McNUTT ROAD
Description: STA 99+44 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1482	99+22.95	-40.000'
1483	99+26.26	-52.315'
1484	99+56.37	-53.031'
1485	99+67.75	-40.000'

PARCEL 69 - REQ'D DRWY EASM'T

946.98 SF
Alignment Name: McNUTT ROAD
Description: STA 94+16 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1442	93+96.41	40.265'
1443	94+37.76	40.000'
1444	94+28.56	66.346'
1445	94+00.85	66.244'

PARCEL 100 - REQ'D DRWY EASM'T

566.76 SF
Alignment Name: McNUTT ROAD
Description: STA 100+03 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1486	99+86.27	-40.000'
1487	99+91.69	-57.116'
1488	100+13.82	-58.295'
1489	100+23.15	-40.000'

PARCEL 92 - REQ'D DRWY EASM'T

356.94 SF
Alignment Name: McNUTT ROAD
Description: STA 95+47 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1449	95+34.95	-45.802'
1450	95+38.73	-61.339'
1451	95+55.67	-61.339'
1452	95+59.01	-46.391'

PARCEL # 90
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
90	435.69	0.010

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C99	4.46	N12° 24' 39"W	215.00	1° 11' 21"	4.46
L284	18.65	S27° 22' 01"E			
L285	37.88	S11° 48' 58"E			
L286	19.34	S17° 32' 28"E			
L288	95.47	N11° 48' 58"W			
L386	25.77	S3° 40' 28"W			

PARCEL # 91
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
91	1879.97	0.043

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C100	169.22	N35° 33' 11"W	215.00	45° 05' 42"	164.88
L289	41.03	S17° 32' 28"E			
L290	45.38	S23° 53' 43"E			
L291	49.66	S37° 12' 23"E			
L292	78.91	S46° 22' 36"E			
L293	27.89	N58° 06' 02"W			
L386	25.77	S3° 40' 28"W			

PARCEL # 92
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
92	425.03	0.010

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C101	42.38	S53° 28' 05"E	262.08	9° 15' 54"	42.33
C102	42.38	S53° 28' 05"E	262.08	9° 15' 54"	42.33
C103	42.39	N53° 22' 37"W	257.08	9° 26' 48"	42.34
L294	30.77	S67° 27' 06"E			
L295	27.44	S58° 06' 02"E			
L296	5.07	S31° 53' 58"W			
L297	57.81	N58° 06' 02"W			

PARCEL # 93
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
93	502.40	0.012

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C104	36.69	N44° 49' 29"W	262.08	8° 01' 17"	36.66
C105	35.18	S44° 44' 02"E	257.08	7° 50' 23"	35.15
L296	5.07	S31° 53' 58"W			
L298	28.58	N40° 48' 51"W			
L299	27.76	N40° 48' 51"W			
L300	7.86	N40° 48' 51"W			
L301	5.05	N41° 01' 47"E			
L302	64.91	S40° 48' 51"E			

PARCEL # 94
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
94	1011.33	0.023

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L301	5.05	N41° 01' 47"E			
L310	82.67	S40° 48' 51"E			
L311	25.02	S40° 48' 51"E			
L312	19.59	N46° 52' 45"E			
L313	45.14	N46° 52' 45"E			
L314	50.25	N52° 35' 23"E			
L315	119.94	S46° 52' 45"W			
L316	112.18	N40° 48' 51"W			

PARCEL # 68
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
68	152.28	0.003

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C106	18.99	N43° 53' 11"W	177.08	6° 08' 40"	18.98
C107	13.97	S44° 58' 23"E	172.08	4° 39' 08"	13.97
L317	27.43	N40° 48' 51"W			
L318	33.33	S49° 35' 46"E			
L319	5.11	S54° 35' 40"W			

PARCEL # 68 - AREA A
TEMPORARY EASEMENT FOR THE CONST. OF UTILITIES

Parcel Area Table

Parcel #	Area SF	Area AC
68 AREA A	2000.00	0.046

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L320	100.00	S40° 48' 51"E			
L321	60.00	S49° 11' 09"W			
L322	20.00	N40° 48' 51"W			
L323	50.00	N49° 11' 09"E			
L324	80.00	N40° 48' 51"W			
L325	10.00	N49° 11' 09"E			

GEORGIA REGISTERED No.2263 LAND SURVEYOR KENNETH E. QUINTANA

.\XREF\GA811newlogo.jpg

GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

RIGHT OF WAY PLANS

McNUTT ROAD
90+00 to 100+50

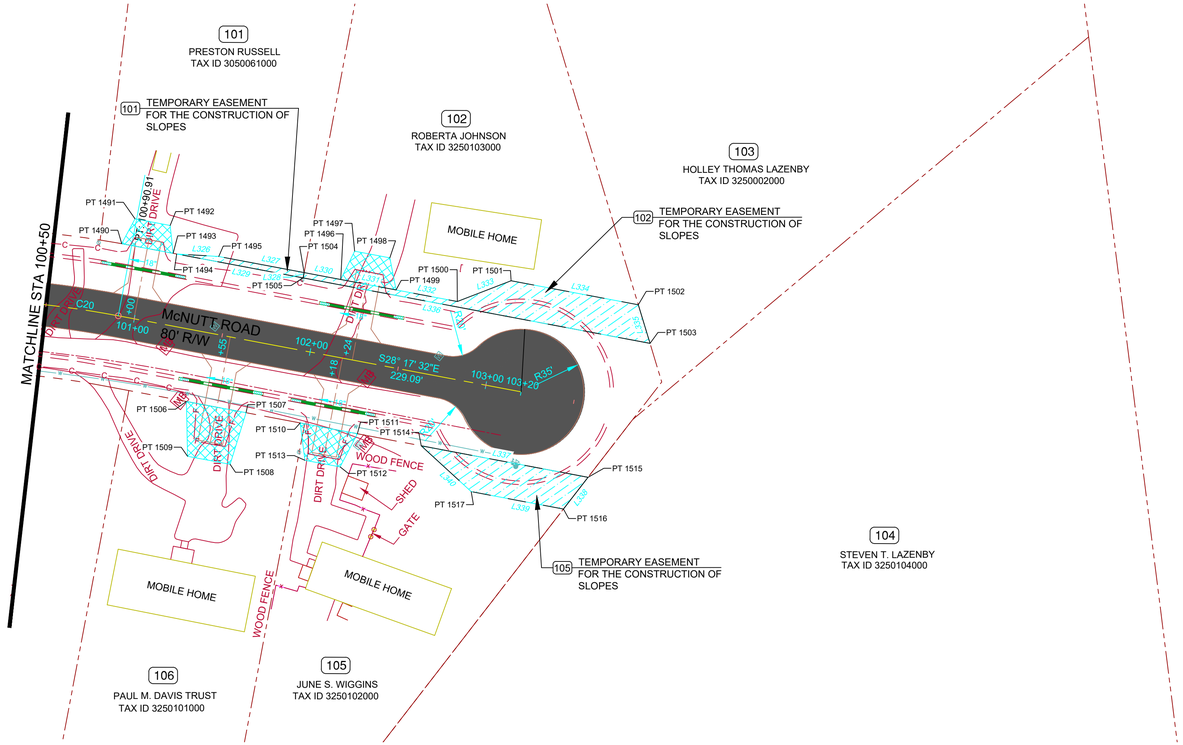
DRAWING NUMBER
60 - 0010

PROJECT: —

TEMPORARY EASEMENT FOR CONSTRUCTION OF SLOPES

EASEMENT FOR CONSTRUCTION OF DRIVES

PERMANENT EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



CURVE # C20

PI STA = 100+29.96
PI N = 1192084.78
PI E = 736300.62
DELTA = 12° 31' 19"
D (ARC) = 10° 13' 53"
T = 61.44
L = 122.39
R = 560.00

PARCEL 101 - REQ' DRWY EASM'T

369.53 SF
Alignment Name: McNUTT ROAD
Description: STA 101+00 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1490	100+85.65	-40.000'
1491	100+90.08	-55.001'
1492	101+10.00	-55.000'
1493	101+14.51	-40.000'

PARCEL 106 - REQ'D DRWY EASM'T

871.92 SF
Alignment Name: McNUTT ROAD
Description: STA 101+55 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1506	101+37.19	40.000'
1507	101+71.10	40.000'
1508	101+67.71	70.000'
1509	101+43.49	70.000'

PARCEL 105 & 106 - REQ'D DRWY EASM'T

525.60 SF
Alignment Name: McNUTT ROAD
Description: STA 102+18 RT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1510	102+01.90	40.000'
1511	102+34.46	40.000'
1512	102+28.38	60.000'
1513	102+08.38	60.000'

PARCEL 102 - REQ'D DRWY EASM'T

437.50 SF
Alignment Name: McNUTT ROAD
Description: STA 102+24 LT
Station Range: Start: 0+00.00, End: 103+20.00

Point	Station	Offset
1496	102+09.31	-43.000'
1497	102+14.01	-60.000'
1498	102+34.01	-60.000'
1499	102+40.78	-43.000'

PARCEL # 101
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
101	180.76	0.004

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L326	23.54	N35° 36' 46"W			
L327	48.58	N28° 17' 32"W			
L328	3.00	N61° 42' 28"E			
L329	71.93	S28° 17' 32"E			

PARCEL # 105
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
105	1473.13	0.034

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L337	94.87	S28° 17' 32"E			
L338	22.45	S88° 44' 12"W			
L339	52.45	N28° 17' 32"W			
L340	37.92	N3° 32' 14"E			

PARCEL # 102
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
102	2128.25	0.049

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L328	3.00	N61° 42' 28"E			
L330	20.84	N28° 17' 32"W			
L331	31.47	N28° 17' 32"W			
L332	34.83	N28° 17' 32"W			
L333	32.23	N60° 07' 17"W			
L334	72.37	N28° 17' 32"W			
L335	22.56	N34° 08' 12"E			
L336	197.35	S28° 17' 32"E			

GEORGIA REGISTERED No.2263 LAND SURVEYOR KENNETH E. QUINTANA

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GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

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McNUTT ROAD
ROAD CONSTRUCTION PLANS

REVISION DATES

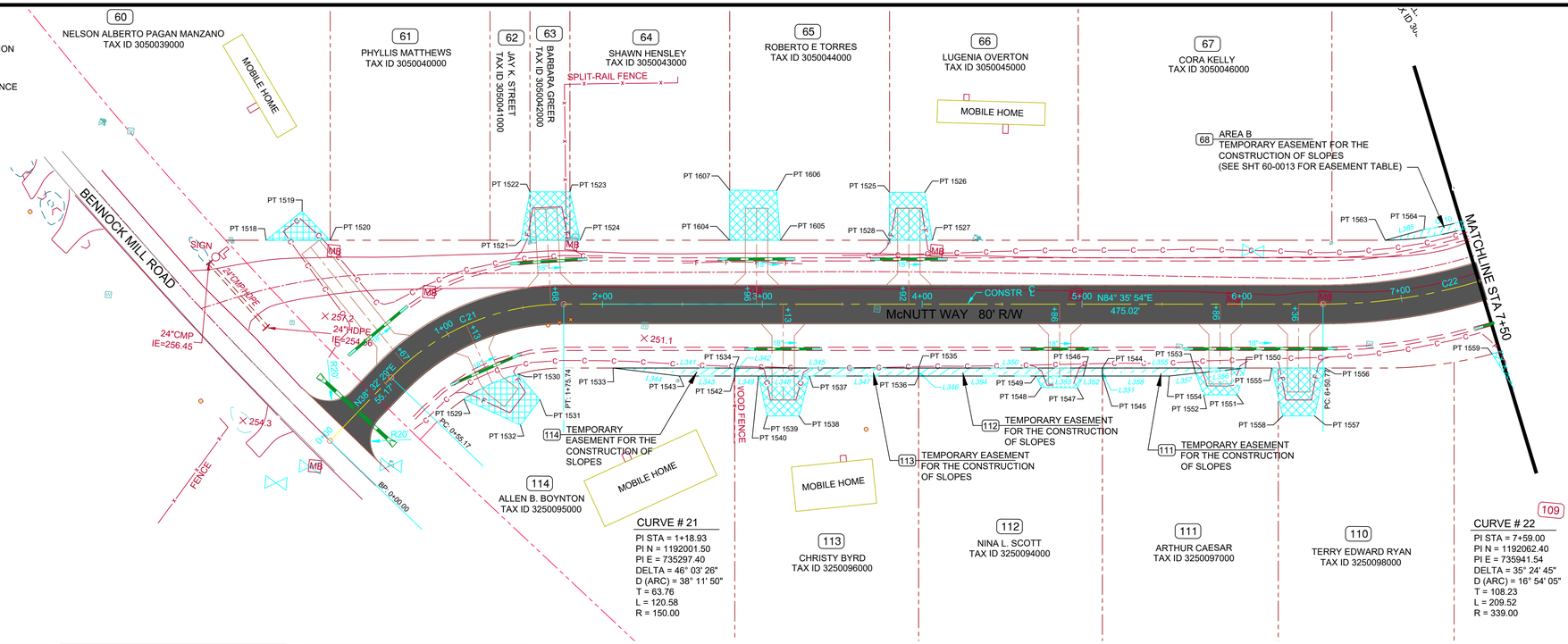
RIGHT OF WAY PLANS

McNUTT ROAD
100+50 to END

DRAWING NUMBER
60 - 0011

PROJECT: —

TEMPORARY EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
PERMANENT EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



PARCEL 60 - REQ'D DRWY EASM'T

365.25 SF
Alignment Name: McNutt Way
Description: STA 0+67 LT
Station Range: Start: 0+00.00, End: 13+91.35

Point	Station	Offset
1518	0+59.40	-116.111'
1519	0+75.78	-114.854'
1520	0+77.39	-89.714'

PARCEL 66 - REQ'D DRWY EASM'T

731.68 SF
Alignment Name: McNutt Way
Description: STA 3+92 LT
Station Range: Start: 0+00.00, End: 13+91.35

Point	Station	Offset
1525	3+79.58	-70.000'
1526	4+01.65	-70.000'
1527	4+06.30	-40.000'
1528	3+79.58	-40.000'

PARCEL 65 - REQ'D DRWY EASM'T

Alignment Name: McNutt Way
Description: STA 2+96 LT
Station Range: Start: 0+00.00, End: 13+91.35

Point	Station	Offset
1604	2+79.58	-40.000'
1605	3+11.25	-40.000'
1606	3+08.94	-71.000'
1607	2+79.58	-71.000'

PARCEL 114 - REQ'D DRWY EASM'T

796.09 SF
Alignment Name: McNutt Way
Description: STA 1+13 RT
Station Range: Start: 0+00.00, End: 13+91.35

Point	Station	Offset
1529	0+85.14	40.000'
1530	1+36.27	40.000'
1531	1+51.22	58.620'
1532	1+23.38	70.942'

PARCEL 112 - REQ'D DRWY EASM'T

190.37 SF
Alignment Name: McNutt Way
Description: STA 4+86 RT
Station Range: Start: 0+00.00, End: 13+91.35

Point	Station	Offset
1546	5+00.78	45.000'
1547	4+97.12	52.375'
1548	4+74.43	52.193'
1549	4+71.20	45.000'

PARCEL 62, 63,64 - REQ'D DRWY EASM'T

939.94 SF
Alignment Name: McNutt Way
Description: STA 100+68 LT
Station Range: Start: 0+00.00, End: 13+91.35

Point	Station	Offset
1521	1+54.73	-41.880'
1522	1+61.38	-71.320'
1523	1+79.58	-70.306'
1524	1+85.98	-40.000'

PARCEL 111 - REQ'D DRWY EASM'T

394.74 SF
Alignment Name: McNutt Way
Description: STA 5+86 RT
Station Range: Start: 0+00.00, End: 13+91.35

Point	Station	Offset
1550	6+02.18	40.000'
1551	5+97.07	56.803'
1552	5+76.11	56.803'
1553	5+71.09	43.268'

PARCEL 113 - REQ'D DRWY EASM'T

647.95 SF
Alignment Name: McNutt Way
Description: STA 3+13 RT
Station Range: Start: 0+00.00, End: 13+91.35

Point	Station	Offset
1537	3+29.40	45.000'
1538	3+23.03	70.000'
1539	3+03.03	70.000'
1540	2+97.56	45.000'

PARCEL 110, 111 - REQ'D DRWY EASM'T

800.13 SF
Alignment Name: McNutt Way
Description: STA 6+36 RT
Station Range: Start: 0+00.00, End: 13+91.35

Point	Station	Offset
1555	6+18.72	40.000'
1556	6+51.92	40.002'
1557	6+45.50	70.000'
1558	6+25.50	70.000'

PARCEL # 114
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
114	277.15	0.006

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L341	76.19	N84° 35' 54"E			
L342	5.00	S5° 24' 06"E			
L343	34.67	S84° 35' 54"W			
L344	41.82	N88° 32' 03"W			

PARCEL # 113
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
113	575.00	0.013

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L342	5.00	S5° 24' 06"E			
L345	115.00	N84° 35' 54"E			
L346	5.00	S5° 24' 06"E			
L347	68.36	S84° 35' 54"W			
L348	31.84	S84° 35' 54"W			
L349	14.80	S84° 35' 54"W			

PARCEL # 112
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
112	575.00	0.013

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L346	5.00	S5° 24' 06"E			
L350	115.00	N84° 35' 54"E			
L351	5.00	S5° 24' 06"E			
L352	11.98	S84° 35' 54"W			
L353	29.58	S84° 35' 54"W			
L354	73.44	S84° 35' 54"W			

PARCEL # 111
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table

Parcel #	Area SF	Area AC
111	328.17	0.008

Parcel Line and Curve Table

Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L351	5.00	S5° 24' 06"E			
L355	89.42	N84° 35' 54"E			
L356	31.27	S78° 35' 56"W			
L357	16.57	S78° 35' 56"W			
L358	41.85	S84° 35' 54"W			

GEORGIA REGISTERED No.2263 LAND SURVEYOR KENNETH E. QUINTANA

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GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —
Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
Cumming, Georgia 30040
Telephone (770) 781-5507

	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

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McNUTT ROAD ROAD CONSTRUCTION PLANS

REVISION DATES

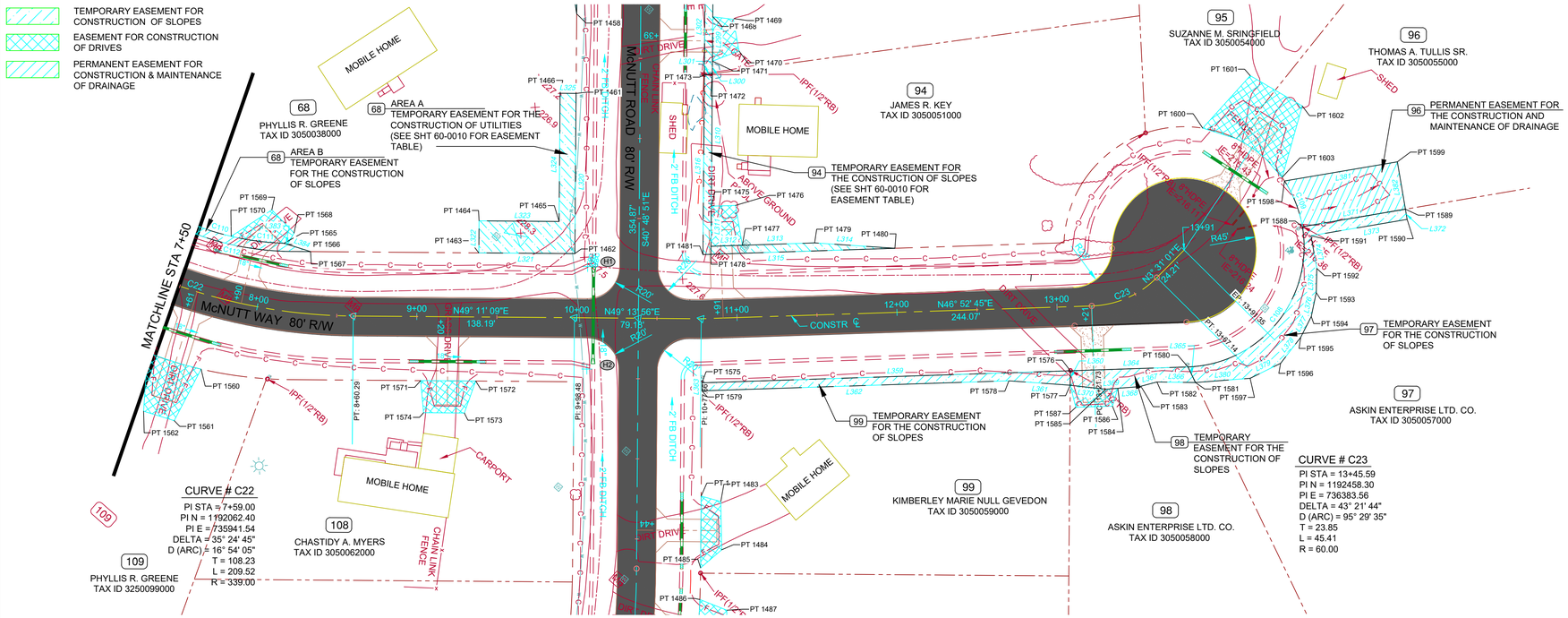
RIGHT OF WAY PLANS

McNUTT WAY
0+00 to 7+50

DRAWING NUMBER
60 - 0012

PROJECT: —

TEMPORARY EASEMENT FOR CONSTRUCTION OF SLOPES
EASEMENT FOR CONSTRUCTION OF DRIVES
PERMANENT EASEMENT FOR CONSTRUCTION & MAINTENANCE OF DRAINAGE



PARCEL 109 - REQ'D DRWY EASM'T

967.59 SF

Alignment Name: McNutt Way
Description: STA 7+61 RT
Station Range: Start: 0+00.00, End: 13+91.35

Point	Station	Offset
1559	7+45.11	45.972'
1560	7+75.93	45.716'
1561	7+69.40	81.154'
1562	7+53.26	81.154'

PARCEL 98 - REQ'D DRWY EASM'T

311.27 SF

Alignment Name: McNutt Way
Description: STA 13+21 RT
Station Range: Start: 0+00.00, End: 13+91.35

Point	Station	Offset
1577	13+06.66	49.020'
1584	13+29.51	52.843'
1586	13+27.02	63.373'
1587	13+09.71	62.894'

PARCEL 68 - REQ'D DRWY EASM'T

443.80 SF

Alignment Name: McNutt Way
Description: STA 7+90 LT
Station Range: Start: 0+00.00, End: 13+91.35

Point	Station	Offset
1566	8+13.08	-41.479'
1568	8+16.46	-49.084'
1569	7+97.35	-61.083'
1570	7+72.74	-39.225'

PARCEL 95 & 96 - REQ'D DRWY EASM'T

1897.80 SF

Alignment Name: McNutt Way
Description: STA 13+91
Station Range: Start: 0+00.00, End: 14+62.60

Point	Station	Offset
1600	14+60.77	32.49' LF
1601	15+04.44	25.95' LT
1602	15+06.75	11.58' RT
1603	14+62.60	28.81' RT

PARCEL 108 - REQ'D DRWY EASM'T

598.34 SF

Alignment Name: McNutt Way
Description: STA 9+20 RT
Station Range: Start: 0+00.00, End: 13+91.35

Point	Station	Offset
1571	9+02.71	40.000'
1572	9+37.10	40.000'
1573	9+30.14	60.000'
1574	9+04.70	60.000'

PARCEL 94 - REQ'D DRWY EASM'T

433.60 SF

Alignment Name: McNutt Way
Description: STA 10+91 LT
Station Range: Start: 0+00.00, End: 13+91.35

Point	Station	Offset
1475	10+86.27	-70.000'
1476	11+01.37	-70.000'
1477	11+04.86	-45.000'
1478	10+85.27	-45.000'

PARCEL # 68 - AREA B
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
68 AREA B	504.40	0.012

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C110	44.04	N69° 09' 06"E*	172.08	14° 39' 47"	43.92
C111	33.25	N56° 17' 05"E*	172.08	11° 04' 14"	33.20
C112	109.45	S66° 53' 32"W*	177.08	35° 24' 45"	107.71
L383	2.42	N66° 05' 25"E			
L384	14.99	N66° 05' 25"E			
L385	25.21	N69° 07' 41"E			

PARCEL # 98
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
98	793.98	0.018

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L360	9.03	S40° 48' 51"E			
L364	73.50	N46° 52' 45"E			
L365	10.80	S66° 53' 56"E			
L366	24.04	S49° 34' 53"W			
L367	11.49	S33° 55' 39"W			
L368	13.37	S44° 25' 21"W			
L369	7.64	S44° 25' 21"W			
L370	22.25	S55° 09' 44"W			

PARCEL # 96
PERMANENT EASEMENT FOR THE CONST. AND MAINTENANCE OF DRAINAGE

Parcel Area Table		
Parcel #	Area SF	Area AC
96	2019.26	0.046

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C109	30.86	S62° 40' 34"E*	75.98	23° 16' 12"	30.65
L371	65.24	N39° 06' 47"E			
L381	71.50	S39° 06' 47"W			
L382	30.00	N50° 53' 13"W			

PARCEL # 99
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
99	1228.02	0.028

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
L359	230.19	N46° 52' 45"E			
L360	9.03	S40° 48' 51"E			
L361	38.40	S52° 53' 20"W			
L362	191.84	S46° 52' 45"W			
L363	5.00	N40° 48' 51"W			

PARCEL # 97
TEMPORARY EASEMENT FOR THE CONST. OF SLOPES

Parcel Area Table		
Parcel #	Area SF	Area AC
97	2157.74	0.050

Parcel Line and Curve Table					
Line #/Curve #	Length (FT)	Bearing/Chord	Radius (FT)	Delta	Ch Length (FT)
C108	127.98	N2° 00' 14"W*	75.00	97° 45' 57"	113.01
L365	10.80	S66° 53' 56"E			
L371	65.24	N39° 06' 47"E			
L372	6.45	S50° 53' 13"E			
L373	60.90	S39° 06' 47"W			
L374	20.70	S51° 16' 46"E			
L375	15.10	S39° 59' 09"E			
L376	15.26	S29° 27' 59"E			
L377	14.57	S14° 19' 26"E			
L378	20.52	S3° 30' 06"E			
L379	21.21	S22° 33' 56"W			
L380	34.24	S44° 21' 31"W			

GEORGIA REGISTERED No.2263 LAND SURVEYOR KENNETH E. QUINTANA

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GRAPHIC SCALE
40 0 20 40 80 160
(IN FEET)
1 inch = 40 ft.

MORELAND ALTOBELLI — AN ATLAS COMPANY —

Moreland Altobelli Associates, LLC
327 Dahlonega Street
Suite 1401
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	NAME	DATE
DESIGNED BY	NAA	03-12-20
DRAWN BY	NAA	03-12-20
CHECKED BY	KEQ	03-12-20

..\Images-References\thCTAAGU98.bmp

McNUTT ROAD ROAD CONSTRUCTION PLANS

REVISION DATES

RIGHT OF WAY PLANS

McNUTT WAY 7+50 to END

DRAWING NUMBER

60 - 0013

GENERAL AUD NOTES

1. All construction of water distribution systems and wastewater collection system lines shall be in accordance with Augusta Utilities Department (AUD) Water & Sanitary Sewer Systems-Design Standards, Construction Specifications and Details (latest publication).

2. The Contractor is responsible for verifying the exact location, size, and material of any existing water or sanitary sewer utility proposed for connection or use by the project.

3. Contractor shall contact the Utilities Protection Inc. "Call Before You Dig" service (811) in order to locate utilities prior to starting any excavation or construction. The locations of underground utilities as shown on plans are approximate as determined from existing records.

4. The Contractor shall coordinate the work of the utility companies.

5. The Augusta Engineering Department (AED) shall be notified at least 48 hours (two working days) in advance during regular working hours (8:30am to 5:00pm, Monday-Friday, excluding Augusta, Georgia holidays) prior to the commencement of any construction activity within Augusta, Georgia right-of-way. Contact AED at (706-821-1706).

6. The AUD Engineering Division shall be notified at least 48 hours (two working days) in advance during regular working hours (8:30 am to 5:00 pm, Monday-Friday, excluding Augusta, Georgia holidays) prior to any construction, tie-ins, or testing of water or wastewater utilities. No work shall commence until contact is made with the project's AUD inspections representative.

7. Disturbance of any Survey Markers or Monuments requires re-establishment by a Professional Land Surveyor at the Contractor's expense. Documentation of the work must be presented to the AUD Engineering Division before the project is completed.

8. Any discrepancies, errors, or omissions discovered on plans or in the specifications should be noted on the contract proposal and does not relieve the Contractor of responsibility to correct the same.

9. All concrete shall and have minimum 28-day strength of 3,000 psi.

10. If a conflict arises between the new work and the existing water and sewer utilities during the course of construction, it will be the responsibility of the

Owner/Developer/Contractor, at their expense and not AUD's, to correct the discrepancy as directed by a representative of AUD.

11. All existing Augusta road structures such as storm manholes, inlet boxes, etc., shall be maintained and or adjusted as is appropriate to ensure proper use.

12. All materials deemed salvageable by AUD are the property of Augusta, Georgia and will be removed and stored on site in a secured area determined during construction by the contractor, and Augusta Utilities Department.

13. For private developments, AUD shall not be responsible for pavement patching and/or replacement and the site restoration whenever AUD performs repair, replacement or installation work.

14. If AUD must repair or replace utilities on the work site, then the responsible party shall arrange for access by AUD as required to repair or replace the utility.

15. A minimum (20') Utility Easement centered over all water lines and a minimum 20' Utility Easement centered over all wastewater lines shall be deeded to Augusta, Georgia at completion and acceptance of said lines. Easements containing both water and sewer shall be 10' from the center of the utility to outside of the easement, while maintaining minimum separation requirements as listed in AUD's Water and Sanitary Sewer Systems-Design Standards, Construction Specifications, and Details.

16. A right-of-way encroachment permit shall be obtained from AED prior to commencing any work within an Augusta, Georgia right-of-way. The utilities encroachment permit must be applied for through AUD.

17. "A Georgia DOT right-of-way encroachment permit may be required for work on temporary or permanent state routes. Contact AUD Engineering Division to determine if a permit is required. The utilities encroachment permit must be applied for through AUD. Conditions of the permit must be complied with fully. The permit must be in hand a minimum 24 hours notice given to GDOT prior to beginning any work in the GDOT right-of-way."

18. Traffic control devices shall meet and be installed in accordance with the Manual on Uniform Traffic Control Devices (MUTCD). Also, a traffic control/detour plan shall be submitted to the City Engineer for approval as noted in the Augusta-Richmond County, Georgia-Rights of Way Encroachment Guidelines.

19. The Contractor and the AUD representative shall have a copy of the Augusta-Richmond County, Georgia-Rights of Way Encroachment Guidelines Development Document #15, adopted June 1999, amended August 2000,

amended June 2021. The requirements set forth in this document shall be adhered to at all times.

20. Clearing and grubbing shall be at the Contractor's discretion, subject to AUD approval, to facilitate construction.

21. The implementation of best management practices (BMP's) for erosion and sediment control in accordance with the Manual for Erosion and Sediment Control in Georgia shall be installed and maintained at all times.

AUD WATER NOTES

1. An AUD inspector shall be present or section left uncovered until inspected by the inspector when a tap, tie-in occurs, restrained joints are installed, bends, fittings, fire hydrants, valves and pressure testing. Contractor is to provide at least 48 hour notice (two working days) in advance during regular working hours (8:30 am to 5:00 pm, Monday-Friday, excluding Augusta, Georgia holidays).

2. All PVC water lines shall be a minimum DR-18 PVC meeting AWWA C-900 and/or C-905, unless otherwise shown or specified.

3. All DIP water lines shall be class 350 for lines 16" diameter and smaller, and class 300 for lines 18" diameter through 24" diameter, unless otherwise specified or shown.

4. All new water lines shall be installed per pipeline manufacturer recommendations.

5. All water lines shall be tested, chlorinated, and checked for bacteria per AUD's Water & Sanitary Sewer Systems-Design Standards, Construction Specifications and Details.

6. Copper Wire (12-gauge, Insulated, Single Strand) shall be attached along top of all buried water lines, wrapped around service corporations and brought up on the outside of all valve boxes, stubbing out at the top to facilitate traceability. This wire shall be properly spliced with a water proof connector for electrical connectivity, and then insulated to protect against corrosion. (Reference AUD Details when applicable).

7. Detector Tape shall be 4 inches wide and placed 2 feet above pipe. Add similar device to conduit per AUD detail 3.6.

8. All water valves on the main lines, including hydrant laterals, shall be open-left if installed south of Gordon Highway (S.R. 10), or open-right if installed north of Gordon Highway.

9. The Contractor shall furnish, install, and maintain a meter box at the termination point of all water services. Meter boxes will in no way be placed under driveways. Meter boxes will preferably be located in the center of the lot and within 1' inside of the R/W, and maintained by the Contractor until such time the meter is installed.

10. Water services shall have minimum diameter of 1 inch (Reference AUD Details when applicable).

11. Any existing water service lines which are extensions off an existing water main to be abandoned discovered during construction shall be replaced. These new service lines are to tie into the new water main and be reconnected to the existing water meter.

12. All existing water services shall be extended and meter boxes relocated as required beyond the limits of construction. The services shall be connected to the new water main after said main has been sterilized, pressure tested and put into service. In the event that the service line is not active, a new water service will be required to be constructed.

13. All water meters shall be purchased from AUD Construction and Maintenance Division.

14. The Developer/Contractor shall locate water services and valves by etching a "W" for the water service and a "V" for a valve in the curb or in the pavement if no curb is available, and highlight the etching with blue paint per the APWA uniform color code. In the event that the valve is located behind the curb or pavement, invert the "V" marking so that it points to the valve outside the roadway.

15. Fire hydrants are to be located a minimum of one foot inside existing right-of-way with a 3 foot radius clearance.

16. Existing fire hydrants and meters that are removed shall be turned over to AUD.

17. Per AUD's Water & Sanitary Sewer Systems-Design Standards, Construction Specifications and Details:
    a. For backflow installations for non-residential development, a minimum "double-check" backflow-prevention device shall be installed on the customer's side of all services.
    b. Fire lines require a minimum "double detector" backflow device.

c. For backflow installations for residential developments, a "dual check" backflow device shall be installed on the customer's side of the service line at the point of tie-in to the water meter.
d. For some medium hazard to high hazard locations, a reduced pressure zone (RPZ) backflow device will be required.

18. Backflow devices shall be tested by a certified person within five (5) working days of installation and the results furnished to the AUD Back Flow Inspector within 10 working days of installation prior to any water use. AUD shall be notified prior to testing Contact the Augusta Utilities Back Flow Inspector at 706-722-1639.

AUD SEWER NOTES

1. An AUD inspector shall be present or section left uncovered until inspected by the inspector when a core, tap, tie-in occurs, manhole installed, and all required testing. Contractor is to provide at least 48 hour notice (two working days) in advance during regular working hours (8:30 am to 5:00 pm, Monday-Friday, excluding Augusta, Georgia holidays).

2. The Contractor is to verify the invert elevations (I.E.) of existing pipes prior to beginning construction.

3. Sewer force main shall be PVC DR-18 C-900 or C-905 as applicable or DIP class 350, epoxy lined.

4. All new sewer lines shall be installed per pipeline manufacturer requirements.

5. Copper Wire (12-gauge, Insulated, Single Strand) shall be attached along top of all buried sewer lines to facilitate traceability. The wire shall run along the top of the main and along individual service lines and brought up on the outside of all manholes, cleanouts, or other above ground features stubbing out at the top for locating purposes. This wire shall be properly spliced with a water proof connector for electrical connectivity, and then insulated to protect against corrosion. (Reference AUD Details when applicable).

6. Detector Tape shall be 4 inches wide and placed 2 feet above pipe add similar device to conduit per AUD detail 3.6.

7. All tie-ins to existing manholes shall be cored unless otherwise approved by AUD Inspector.

8. All manholes require "K or N Seal" or equal, rubber boots, unless otherwise approved by AUD Inspector.

9. No connection shall be made to existing wastewater lines until the proposed line is inspected and approved by AUD's Engineering Division.

10. All wastewater manholes shall have an elevation drop of 0.2 foot across the inlet and outlet inverts.

11. Wastewater clean-outs shall be installed at all individual services as shown in AUD-Details, and shall not be installed under driveways or any paved areas without prior approval from AUD.

12. Service lines to sanitary sewer main shall be bedded per these AUD Specifications and AUD Details.

13. Maximum sanitary sewer infiltration shall not exceed 100 GPD/inch of pipe diameter per mile.

14. The Contractor shall locate sanitary sewer services by etching an "S" in the curb or in the pavement if no curb is available, and highlight the etching with green paint per the APWA uniform color code.

15. Finished floor elevations of all proposed buildings shall be a minimum of five (5) feet above the invert elevation of the wastewater main or manhole at the point of tie-in. In instances where this is not possible, a backwater valve shall be installed in the sewer service.