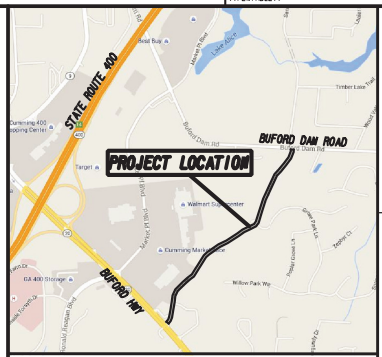
DATE$$$ TIME$$$ $PRF8$ DGN FORSYTH COUNTY DEPARTMENT OF TRANSPORTATION PROJECT NO. PEB 27
$USER$ $$PENTABLE$$

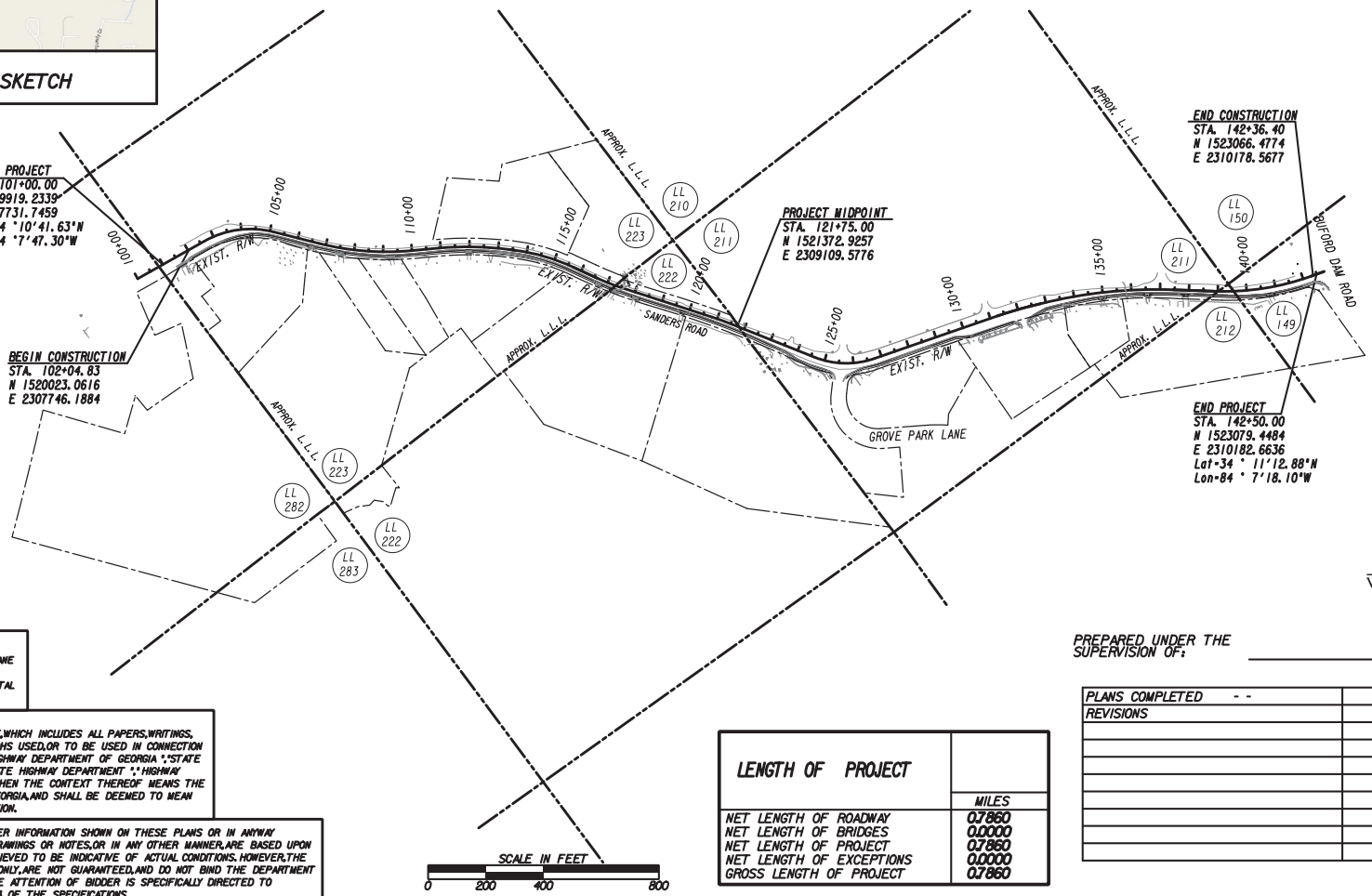
DEPARTMENT OF ENGINEERING
FORSYTH COUNTY

SANDERS ROAD SIDEWALK PROJECT



LOCATION SKETCH

DESIGN SPEED:
SANDERS ROAD: 30 MPH



Wolverton & Associates
Consulting Engineers • Land Surveyors

PREPARED UNDER THE SUPERVISION OF:

THIS PROJECT HAS BEEN PREPARED RELATIVE TO THE GEORGIA STATE PLANE COORDINATE SYSTEM,WEST ZONE AS REFERENCED TO NAD83 (2011) HORIZONTAL AND NAVD88 (GEOID2012A) VERTICAL.

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

THE DATA,TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS OR IN ANYWAY INDICATED THEREBY,WHETHER BY DRAWINGS OR NOTES,OR IN ANY OTHER MANNER,ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER,THE SAME ARE SHOWN AS INFORMATION ONLY,ARE NOT GUARANTEED,AND DO NOT BIND THE DEPARTMENT OF TRANSPORTATION IN ANY WAY. THE ATTENTION OF BIDDER IS SPECIFICALLY DIRECTED TO SUBSECTIONS 102.04,102.05,AND 104.03 OF THE SPECIFICATIONS.

LENGTH OF PROJECT	MILES
NET LENGTH OF ROADWAY	0.7860
NET LENGTH OF BRIDGES	0.0000
NET LENGTH OF PROJECT	0.7860
NET LENGTH OF EXCEPTIONS	0.0000
GROSS LENGTH OF PROJECT	0.7860

PLANS COMPLETED - -	
REVISIONS	

DRAWING No.
01- 0001

7/31/2015 GPLN

15TP013_3_01.dgn 4/28/2016 3:33:23 PM

FORSYTH COUNTY DEPARTMENT OF TRANSPORTATION	PROJECT NO. PEB 27

DRAWING NO.	DESCRIPTION
01-0001	COVER SHEET
02-0001	INDEX SHEET
03-0001	REVISION SUMMARY SHEET
04-0001	GENERAL NOTES
05-0001	TYPICAL SECTIONS
06-0001	SUMMARY OF QUANTITIES
13-0001 TO 13-0009	MAINLINE ROADWAY PLAN SHEETS
17-0001 TO 17-0002	DRIVEWAY PROFILES
22-0001 TO 22-0003	DRAINAGE PROFILES
23-0001 TO 23-0009	CROSS SECTIONS
24-0000 TO 24-0009	UTILITY PLANS
26-0001 TO 26-0009	SIGNING AND MARKING PLANS AND DETAILS
50-0001	EROSION COVER SHEET
51-0001 TO 51-0007	ESPC GENERAL NOTES SHEET
52-0001 TO 52-0006	EROSION CONTROL LEGEND
53-0001	ESPCP DRAINAGE AREA MAP
54-0001 TO 54-0027	BMP LOCATION DETAILS
55-0001	EC WATERSHED MAP & SITE MONITORING LOCATION
60-0001 TO 60-0013	RIGHT OF WAY PLANS

DRAWING NO.	DESCRIPTION

DATE	STANDARD NO.	STANDARD DESCRIPTION
10/1981	1011A	BRICK MANHOLES
9/2001	1030D	CONCRETE AND METAL PIPE CULVERTS SHEET 1 OF 3
9/2001	1030D	CONCRETE AND METAL PIPE CULVERTS SHEET 2 OF 3
9/2001	1030D	CONCRETE AND METAL PIPE CULVERTS SHEET 3 OF 3
8/1982	1033D	CATCH BASINS (FOR USE WITH 6'' OR 8'' HT. CURB AND GUTTER)
9/1982	1033D	PRECAST CATCH BASINS (FOR USE WITH 6'' OR 8'' PRECAST HT. CURB AND GUTTER)
8/1982	1034D	CATCH BASINS (FOR USE WITH 6'' OR 8'' CURB AND GUTTER IN SAGS OR LOW POINTS)
9/1982	1034D	PRECAST CATCH BASINS (FOR USE WITH 6'' OR 8'' CURB AND PRECAST GUTTER IN SAGS OR LOW POINTS)
6/2006	1120	FLARED END SECTIONS FOR PIPES.
8/2011	4380	"W" BEAM GUARDRAIL 31 INCH GUARDRAIL HEIGHT
8/2011	4381	POSTS AND OFFSET BLOCKS FOR "W" & "T" BEAM GUARDRAIL 31 INCH GUARDRAIL HEIGHT
8/2011	4383	GUARDRAIL ANCHORAGE TYPE 1 31 INCH GUARDRAIL HEIGHT
8/2011	4384	TYPE 12 31 INCH GUARDRAIL HEIGHT
8/2011	4386	GUARDRAIL LOCATIONS IN MEDIANS GUARDRAIL LOCATIONS AT TURNOUTS 31 INCH GUARDRAIL HEIGHT
8/2011	4388	GUARDRAIL LOCATION DETAILS FOR UNDIVIDED HIGHWAYS AND ROADS (WITH SHOULDERS ADJACENT TO THE ROADWAY) 31 INCH GUARDRAIL HEIGHT
8/2011	4391	GUARDRAIL LOCATION (ON ROADS WITH CURB & GUTTER, HEADER CURB OR INTEGRAL CURB) 31 INCH GUARDRAIL HEIGHT
6/1998	9031L	RETAINING WALL TYPICAL SECTIONS, RAISING HEADWALL, AND TYPICAL PIPE PLUG
4/1996	9031S	MEDIAN DROP INLET (PRECAST OR BUILT-IN-PLACE) AND CONCRETE APRON
11/2011	9032B	CONCRETE CURB AND GUTTER, CONCRETE CURBS, CONCRETE MEDIANS
3/2006	9100	TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, AND MISCELLANEOUS DETAILS

DATE	DETAIL NO.	DETAIL DESCRIPTION
7/2011	A-1	DRIVEWAYS WITH TAPERED ENTRANCES CONCRETE VALLEY GUTTERS
6/2009	A-3	THIS DETAIL REPLACES GA STANDARD 9031W: SPECIAL DETAILS - CONCRETE SIDEWALK DETAILS CURB CUT (WHEELCHAIR) RAMPS
6/2009	A-4	DETECTABLE WARNING SURFACE TRUNCATED DOME SIZE, SPACING AND ALIGNMENT REQUIREMENTS
6/1995	D-5	SAFETY INLETS WITH GRATES
7/2002	T03A	TYPE 7,8 AND 9 SQUARE TUBE POST INSTALLATION DETAIL
7/2002	T03B	DETAILS OF SQUARE TUBE POST (BREAKAWAY SUPPORT)
10/2008	T-21	TRAFFIC CONTROL PEDESTRAIN ACCESSIBILITY AROUND WORKZONE-SIDEWALK DETOUR

NOTE:
GEORGIA STANDARD CONSTRUCTION DETAILS, STANDARDS AND SPECIAL DETAILS REQUIRED FOR THIS PROJECT ARE LISTED WITH THE LATEST REVISION DATES, BUT ARE NOT INCLUDED AS PART OF THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE STANDARDS AND DETAILS SHOWN IN THE INDEX AND MAINTAINING THESE ON THE PROJECT SITE. FULL SIZE PRINTS MAY BE PURCHASED, BY THE CONTRACTOR, FROM THE GEORGIA DEPARTMENT OF TRANSPORTATION.

REVISION DATES

INDEX

SANDERS RD SIDEWALK IMPROVEMENTS

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

DRAWING No. 02-0001

7/31/2015 GPLN

15TP013_3_02.dgn 4/28/2016 3:33:24 PM

DATE$$$ TIME$$$
$USER$

PRF
$$PENTABLE$$

DGN

FORSYTH COUNTY
DEPARTMENT OF TRANSPORTATION

PROJECT NO.
PEB 27

DATE	DRAWING NO.	REVISION

DATE	DRAWING NO.	REVISION

Wolverton & Associates
Consulting Engineers + Land Surveyors
6745 Sugarloaf Parkway - Suite 100 - Duluth, Georgia 30097
Phone: 770-447-8999 - Fax: 770-447-9070
www.wolverton-assoc.com

REVISION DATES

REVISION SUMMARY

SANDERS RD
SIDEWALK IMPROVEMENTS

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

DRAWING No.
03-0001

7/31/2015 GPLN

15TP013_3_03.dgn 4/28/2016 3:33:24 PM

GENERAL NOTES

1. A N.O.I. IS REQUIRED FOR THIS PROJECT. THE TOTAL DISTURBED AREA IS 1.46 ACRES. THE TOTAL PROJECT AREA IS 6.92 ACRES.

2. ALL KNOWN UTILITY FACILITIES ARE SHOWN SCHEMATICALLY ON PLANS AND ARE NOT NECESSARILY ACCURATE IN LOCATION AS TO PLAN OR ELEVATION. UTILITY FACILITIES HAVE BEEN LOCATED THROUGH FIELD SURVEY AND COORDINATION WITH UTILITY COMPANIES FOR EXISTING LOCATIONS. UTILITY FACILITIES SUCH AS SERVICE LINES OR UNKNOWN FACILITIES NOT SHOWN ON HIGHWAY PLANS WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY UNDER THIS REQUIREMENT. "EXISTING UTILITY FACILITIES" MEANS ANY UTILITY THAT EXISTS ON THE HIGHWAY PROJECT IN ITS ORIGINAL, RELOCATED, OR NEWLY INSTALLED POSITION. ALL UTILITY FACILITIES, WHICH ARE IN CONFLICT WITH CONSTRUCTION ARE TO BE REMOVED OR RELOCATED TO CLEAR CONSTRUCTION IN ADVANCE OF HIS WORK.

3. UTILITY WORK COORDINATION WILL BE REQUIRED AS PART OF THIS CONTRACT. THE CONTRACTOR WILL BE REQUIRED TO USE THE ONE-CALL CENTER TELEPHONE NUMBER, 811 OR 1-800-282-7411, FOR THE PURPOSE OF COORDINATING THE MARKING OF UNDERGROUND UTILITIES. THE CONTRACTOR'S ATTENTION IS CALLED TO SUB-SECTION 105.06 OF THE GADOT STANDARDS SPECIFICATION, "COOPERATION WITH UTILITIES".

4. INGRESS/EGRESS SHALL BE MAINTAINED TO ALL EXISTING DRIVEWAYS.

5. ALL EXISTING DRAINAGE PIPES AND STRUCTURES ARE TO REMAIN UNLESS NOTED OTHERWISE. CONTRACTOR SHALL ESTABLISH AND MAINTAIN POSITIVE DRAINAGE THROUGHOUT PROJECT.

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

ASPHALT - RESIDENTIAL - ASPH CONC 12.5mm SUPERPAVE (165 LB/SY)
GRADED AGGREGATE BASE, 6"
ASPHALT - COMMERCIAL - ASPH CONC 12.5mm SUPERPAVE (165 LB/SY)
ASPH CONC 19mm SUPERPAVE (220 LB/SY)
GRADED AGGREGATE BASE, 6"
CONCRETE - RESIDENTIAL - DRIVEWAY CONCRETE, 6" THICK
CONCRETE - COMMERCIAL - DRIVEWAY CONCRETE, 8" THICK

STANDARD SIGNING AND MARKING NOTES

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

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.

4. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEAREST EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 1.5 FEET FROM THE CURB FACE TO THE SIGN POLE(S).

5. ALL STRIPING, DIRECTIONAL ARROWS, ETC., SHALL BE THERMOPLASTIC, UNLESS OTHERWISE NOTED. ALL STRIPING SHOULD BE INSTALLED PER GDOT SPECIFICATIONS.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL RULES AND REGULATIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES DURING ROAD WIDENING.

7. ALL EXISTING STRIPING, SIGNAGE, RAISED PAVEMENT MARKERS, UTILITIES, ETC. WHICH CONFLICTS WITH PROPOSED IMPROVEMENTS SHOULD BE REMOVED AND/OR RELOCATED PER GEORGIA DOT SPECIFICATIONS TO INCORPORATE NEW IMPROVEMENTS.

8. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS, AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT.

UTILITY OWNER	SERVICE

Pipe Culvert Material Alternates

TYPE OF INSTALLATION			PIPE TYPE: CONCRETE — REINFORCED CONCRETE AASHTO M.170	STEEL — CORRUGATED STEEL ALUMINUM COATED (TYPE 2) AASHTO M36	STEEL — CORRUGATED STEEL PLAIN ZINC COATED AASHTO M36	STEEL — POLYMER COATED STEEL AASHTO M.245	ALLUMINUM — CORRUGATED ALUMINUM AASHTO M196	THERMOPLASTIC — CORRUGATED HDPE AASHTO M.252	THERMOPLASTIC — CORRUGATED SMOOTHED LINED HDPE TYPE "S" AASHTO M.294	THERMOPLASTIC — CORRUGATED SMOOTH LINED POLYPROPYLENE AASHTO M330	THERMOPLASTIC — PVC CORRUGATED SMOOTH INTERIOR ASTM F-949	THERMOPLASTIC — PVC Profile Wall Drain Pipe AASHTO N-304
STORM DRAIN	NON-TRAVEL BEARING (OUTSIDE ROADBED)	INTERSTATE	X									
		NON INTERSTATE	X	X		X	X		X	X	X	X
	TRAVEL BEARING (INSIDE ROADBED) GRADE≤ 10%	ADT < 1,500	X	X		X	X		X	X	X	X
		1,500 < ADT < 5,000	X	X		X	X		X	X	X	X
		5,000 < ADT < 15,000	X						X	X	X	X
		ADT > 15,000 & INTERSTATES	X									
	GRADE > 10%					X			X	X	X	X
SIDE DRAIN			X	X		X	X		X	X	X	X
PERMANENT SLOPE DRAIN				X	X	X	X		X	X	X	X
PERFORATED UNDERDRAIN				X	X		X	X	X	X	X	X

NOTES:

1 Allowable materials are indicated by an "X".

2 Structural, installation, fill height and backfill requirements of storm drain pipe will be in accordance with Georgia Standard 1030-D or 1030-? and the Standard Specifications

3 The Contractor shallprovide additional storm sewer capacity calculations if a pipe material other than concrete is selected.

4 Pipe used under mechanically stabilized earth (MSE) walls, within MSE wall backfill, or within five feet of an MSE wall face shall be Class VConcrete Pipe.

Rev. 1-12-16

Wolverton & Associates
Consulting Engineers + Land Surveyors
6745 Sugarloaf Parkway - Suite 100 - Duluth, Georgia 30097
Phone: 770-447-8999 - Fax: 770-447-9070
www.wolverton-assoc.com

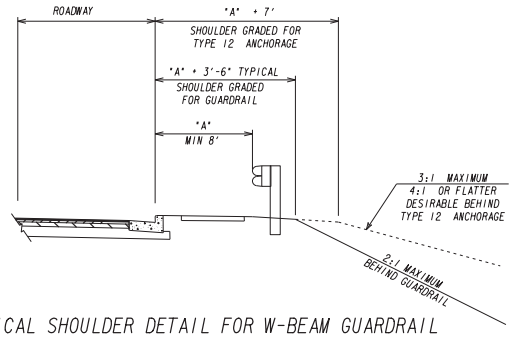
REVISION DATES

GENERAL NOTES

SANDERS RD
SIDEWALK IMPROVEMENTS

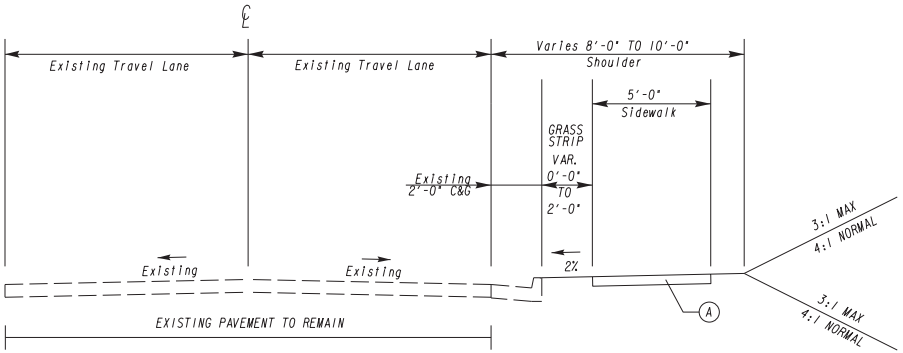
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 04-0001



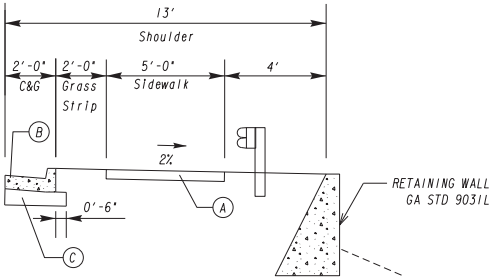
TYPICAL SHOULDER DETAIL FOR W-BEAM GUARDRAIL

SEE PLANS FOR LOCATIONS



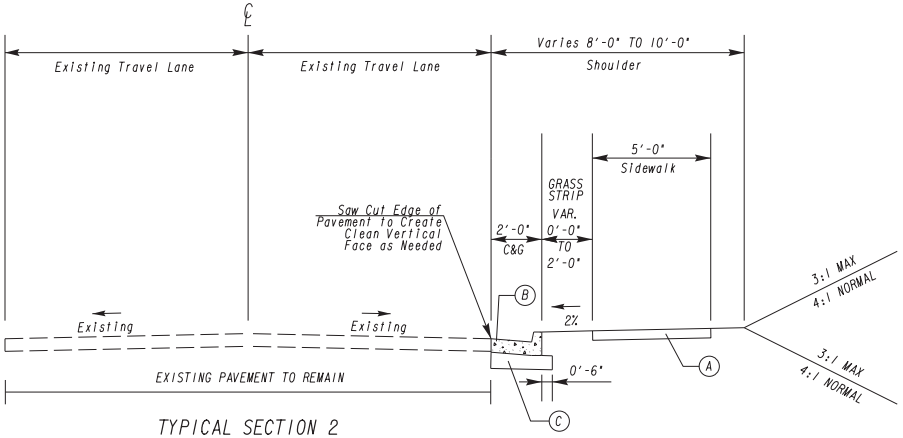
TYPICAL SECTION 1

STA. 102+05 TO 103+35
STA. 130+17 TO 132+43
STA. 141+92 TO 142+36



RETAINING WALL DETAIL

STA. 138+50 TO 140+60



TYPICAL SECTION 2

STA. 103+35 TO 130+17
STA. 132+43 TO 141+92

PAY ITEMS:

(A) 4" CONC SIDEWALK
(B) 8"X24" CONC CURB & GUTTER, TYPE 2
(C) GRADED AGGREGATE BASE, 6"

NOTES:

1. SIDEWALK SLOPE VARIES -2% TO 2%. SEE CROSS-SECTIONS FOR LOCATION
2. SEE PLANS & CROSS-SECTIONS FOR HORIZONTAL & VERTICAL LOCATION OF SIDEWALK

Wolverton & Associates
Consulting Engineers + Land Surveyors
6745 Sugarloaf Parkway - Suite 100 - Duluth, Georgia 30097
Phone: 770-447-8999 - Fax: 770-447-9070
www.wolverton-assoc.com

NOT TO SCALE

REVISION DATES		

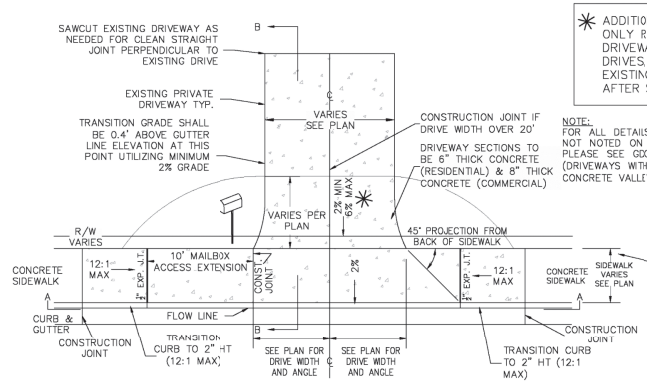
TYPICAL SECTIONS

SANDERS RD SIDEWALK IMPROVEMENTS

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

DRAWING No. 05-0001

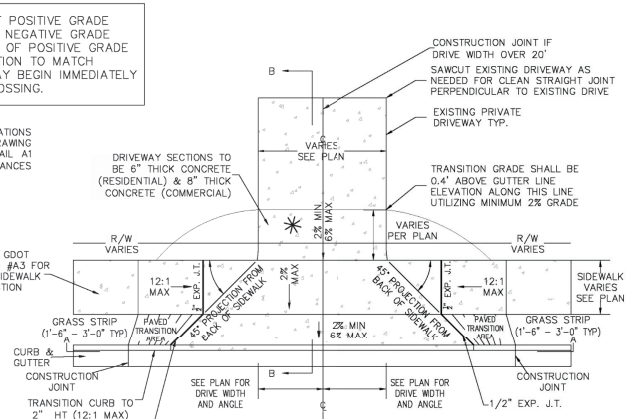
7/31/2015 GPLN



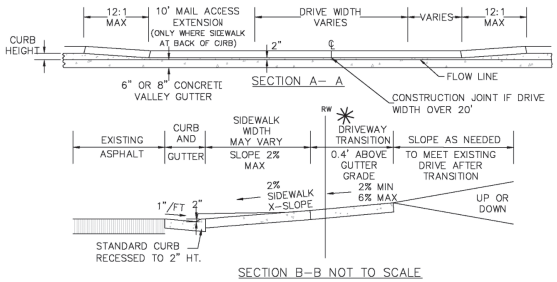
DETAIL #1
DRIVEWAY APRON FOR TYPICAL DRIVEWAY
WITHOUT GRASS STRIP PLAN VIEW
NOT TO SCALE

✱ ADDITIONAL AREA OF POSITIVE GRADE ONLY REQUIRED FOR NEGATIVE GRADE DRIVEWAYS. IN CASE OF POSITIVE GRADE DRIVES, THE TRANSITION TO MATCH EXISTING GRADES MAY BEGIN IMMEDIATELY AFTER SIDEWALK CROSSING.

NOTE:
FOR ALL DETAILS AND SPECIFICATIONS NOT NOTED ON THIS DETAIL DRAWING PLEASE SEE GDOT SPECIAL DETAIL A1 (DRIVEWAYS WITH TAPERED ENTRANCES CONCRETE VALLEY GUTTERS)

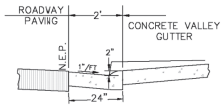


DETAIL #2
DRIVEWAY APRON FOR TYPICAL DRIVEWAY
WITH GRASS STRIP PLAN VIEW – NOT TO SCALE

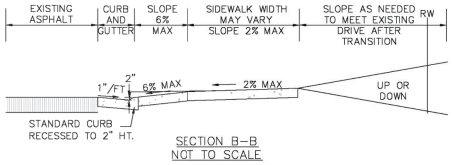


SECTION A– A

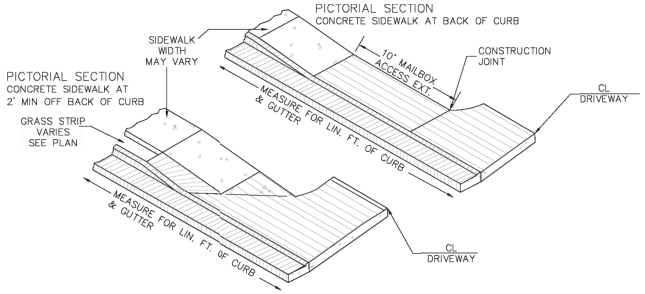
SECTION B–B NOT TO SCALE

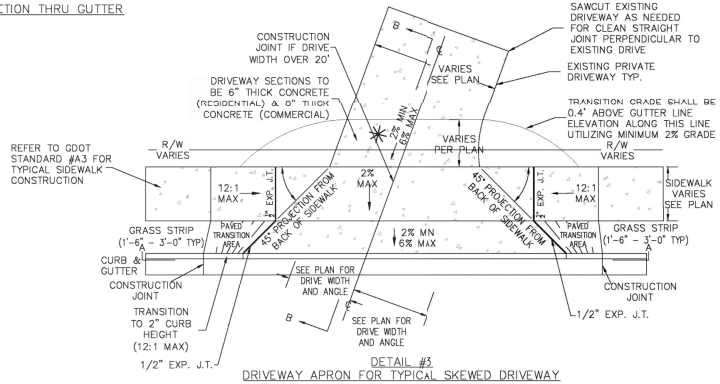


SECTION THRU GUTTER



SECTION B–B
NOT TO SCALE





DETAIL #3
DRIVEWAY APRON FOR TYPICAL SKEWED DRIVEWAY
WITH GRASS STRIP PLAN VIEW
NOT TO SCALE

GENERAL NOTES

1. QUANTITIES WILL BE MEASURED AS FOLLOWS:
(A) CONCRETE CURB & GUTTER ALONG ROADWAY---
LIN. FT. OF CURB & GUTTER WILL BE MEASURED FOR PAYMENT CONTINUOUS THRU THE DRIVE ENTRANCES. PAYMENT FOR CURB AND GUTTER WILL INCLUDE DAPPING DOWN THE TOP PORTION OF THE CURB.
(B) SQ. YDS. OF CONCRETE VALLEY GUTTER WILL BE MEASURED FOR PAYMENT FROM THE BACK OF CURB LINE TO BACK OF SIDEWALK. "PAVED TRANSITION AREA" AND "MAILBOX ACCESS EXTENSION" SHALL BE INCLUDED IN PAY ITEM QUANTITY FOR CONCRETE VALLEY GUTTER. CONCRETE VALLEY GUTTER SHALL BE 6" OR 8" THICK CONCRETE.
(C) HEADER (OR INTEGRAL) CURB ALONG ROADWAY---
LIN. FT. OF CURB WILL BE MEASURED FOR PAYMENT TO THE BEGINNING OF DRIVEWAY. SQ. YDS. OF CONCRETE VALLEY GUTTER WILL 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 INTEGRAL CURB.

3. DRIVES RECONSTRUCTED SHALL BE REPLACED IN KIND, I.E. ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE AGGREGATE SURFACE COARSE FOR EARTH

4. SEE STANDARD 9032-B FOR DETAILS OF CONCRETE CURB AND GUTTER, HEADER CURBS AND DOWELED INTEGRAL CURBS.

5. WIDTHS OF COMMERCIAL DRIVEWAYS WILL COMPLY WITH CURRENT "RULES AND REGULATIONS FOR DRIVEWAY AND ENCROACHMENT CONTROL" WIDTHS OF RESIDENTIAL NON-COMMERCIAL DRIVEWAYS WILL BE AS SPECIFIED IN THE PLANS.

6. THE SLOPE OF THE "TRANSITION AREA" OF THE CONCRETE VALLEY GUTTER SHALL NOT BE STEEPER THAN 8.33% (12:1) WHERE SIDEWALKS ARE LOCATED.

7. MAXIMUM DRIVEWAY GRADES SHOWN BELOW ARE INTENDED FOR RESIDENTIAL DRIVEWAY WHERE FLATTER GRADES ARE NOT FEASIBLE. GRADES FOR COMMERCIAL DRIVEWAYS OR FOR TRUCKS SHALL NOT BE GREATER THAN 11% UNLESS OTHERWISE SPECIFIED.

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 UNIT 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.

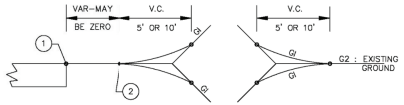
(1) IS THE BACK OF THE SIDEWALK SURFACE OR THE SHOULDER SURFACE GRADE 10'0" BACK OF CURB, SLOPE OF THE CONCRETE VALLEY GUTTER WILL BE SUCH THAT THE BACK OF THE DRIVEWAY TAPER WILL BE THE SAME ELEVATION.

(2) IS BEGINNING OF DRIVEWAY TIE-IN.

NOTE: (1) AND (2) MAY COINCIDE

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

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



Wolverton & Associates
Consulting Engineers + Land Surveyors
6745 Sugarloaf Parkway - Suite 100 - Duluth, Georgia 30097
Phone: 770-447-8999 - Fax: 770-447-9070
www.wolverton-assoc.com

NOT TO SCALE

REVISION DATES

TYPICAL SECTIONS

SANDERS RD SIDEWALK IMPROVEMENTS

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

DRAWING No. 05- 0002

7/31/2015 GPLN

15TP013_3_05.dgn 4/28/2016 3:33:32 PM

SUMMARY OF QUANTITIES
ROADWAY

TRAFFIC CONTROL

LUMP SUM

GRADING COMPLETE

LUMP SUM

RIGHT OF WAY MARKERS

TOTAL 9 EA

SURFACING QUANTITIES

ITEMS	UNIT	SANDERS ROAD	DRIVEWAYS	CURB AND GUTTER	TOTALS
GRADED AGGREGATE BASE CRS. INCL MATL	TN		94	339	433
CONCRETE SIDEWALK, 4 IN	SY	2045			2045
CONC CURB & GUTTER, 8 IN X 24 IN, TP 2	LF	3570			3570
AGGREGATE SURFACE COURSE	TN		449		449

CLASS "B" CONCRETE

TOTAL 49 CY

GUARDRAIL QUANTITIES

LOCATION		SIDE	GUARDRAIL	ANCHORAGES	
STATION	ROAD		"W" BEAM	TP 1	TP 12
			LF	EA	EA
138+45 TO 140+59	SANDERS ROAD	RT	256	1	1
TOTAL			256	1	1

SUMMARY OF DRAINAGE QUANTITIES

STRUCTURE NUMBER	LOCATION			STORM DRAIN PIPE				FLARED END SECTION GA. STD. 1120			CATCH BASIN GP 1							DROP INLET GP 1			MANHOLE										
				STORM DRAIN H (FEET)							GA. STD. 1033 D		GA. STD. 1034 D					GA. STD. 1019 A, TP E W/ 30" GRATES GA. STD. 903-L		GA. STD. 903 S	GA. STD. 1011-A TP 1			GA. STD. 1011-A TP 2		RIP RAP TYPE I, 18" DEEP	RIP RAP TYPE I, 24" DEEP	PLASTIC FILTER FABRIC	GA STD. D-5 SAFETY GRATE TP 1	CLASS A CONCRETE, INCL REINF STEEL
				1-10	10-15	1-10	15-20	18"	24"	36"	6' 0" OR LESS	ADDL DEPTH	6' 0" OR LESS	ADDL DEPTH	RECONSTRUCT CATCH BASIN	RECONSTR. CATCH BASIN, ADDL DEPTH	ADJUST CATCH BASIN TO GRADE	6' 0" OR LESS	ADDL DEPTH	6' 0" OR LESS	WANHOLE	ADDL DEPTH - CL1	ADDL DEPTH - CL2	6' 0" OR LESS	ADDL DEPTH - CL3						
	STATION	SIDE	ROAD	18"	24"	36"	48"	EA	EA	EA	EA	LF	EA	LF	EA	LF	EA	EA	LF	EA	EA	LF	LF	EA	LF	SY	SY	SY	SF	CY
A-1	105+83	66' RT	SANDERS ROAD					1																		9		9		
A-2	105+84	18' RT	SANDERS ROAD	22							1																			
B-1	112+58	29' RT	SANDERS ROAD																							9		9	11	2
B-2	112+50	14' RT	SANDERS ROAD	13							1																			
B-3	111+78	28' RT	SANDERS ROAD	74																1										
B-4	110+00	17' RT	SANDERS ROAD	77																	1									
B-5	109+12	29' RT	SANDERS ROAD	190																1										
B-6	107+39	26' RT	SANDERS ROAD	178																1										
C-1	1178+82	31' RT	SANDERS ROAD					1																		9		9		
C-2	117+83	16' RT	SANDERS ROAD	73									1																	
C-3	117+11	14' RT	SANDERS ROAD	53							1																			
C-4	116+50	14' RT	SANDERS ROAD	62							1										1									
C-5	115+80	29' RT	SANDERS ROAD	70																										
C-6	115+00	14' RT	SANDERS ROAD	79							1																			
C-7	118+29	29' RT	SANDERS ROAD	13																1										
C-8	118+29	16' RT	SANDERS ROAD	45							1																			
C-9	119+00	13' RT	SANDERS ROAD	72							1																			
C-10	120+00	15' RT	SANDERS ROAD	100							1																			
D-1	122+74	26' RT	SANDERS ROAD					1																		9		9		
D-2	122+50	20' RT	SANDERS ROAD	30							1																			
E-1	128+99	46' RT	SANDERS ROAD					1																		9		9		
E-2	128+97	23' RT	SANDERS ROAD	13									1																	
F-1	135+75	29' RT	SANDERS ROAD						1																	11		11		
F-2	135+83	17' RT	SANDERS ROAD		20																1									
F-3	135+56	15' RT	SANDERS ROAD	27									1																	
F-4	133+07	22' RT	SANDERS ROAD	246							1																			
		TOTALS		1429	20			4	1		10		3							4	3					56		56	11	2

Wolverton & Associates
Consulting Engineers + Land Surveyors
6745 Sugarloaf Parkway - Suite 100 - Duluth, Georgia 30097
Phone: 770-447-8999 - Fax: 770-447-9070
www.wolverton-assoc.com

REVISION DATES

SUMMARY QUANTITIES

SANDERS RD SIDEWALK IMPROVEMENTS

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

DRAWING No. 06-0001

SUMMARY OF QUANTITIES

ROADWAY

DRIVEWAY QUANTITIES

LOCATION	DRIVEWAY NUMBER	DRIVEWAY WIDTH	TYPE	12.5 mm SUPERPAVE GP 1 OR 2 TN	19 mm SUPERPAVE GP 1 OR 2 TN	TACK COAT	ASPHALT AREA	CONCRETE AREA	CONCRETE VALLEY GUTTER
		(FT)		(TN)	(TN)	(GAL)	(SY)	(SY)	(SY)
106+54, RT	*1	14	RESIDENTIAL ASPHALT	2			17		16
107+57, RT	*2	14	RESIDENTIAL ASPHALT	2			18		29
109+29, RT	*3	14	RESIDENTIAL CONCRETE	2				23	29
112+99, RT	*4	14	RESIDENTIAL CONCRETE					29	29
116+75, RT	*5	14	RESIDENTIAL CONCRETE					21	29
117+28, RT	*6	14	RESIDENTIAL ASPHALT				16		29
118+09, RT	*7	14	RESIDENTIAL ASPHALT	2			15		29
119+80, RT	*8	14	RESIDENTIAL ASPHALT	2			23		29
133+72, RT	*9	14	RESIDENTIAL ASPHALT	2			24		16
134+97, RT	*10	14	RESIDENTIAL ASPHALT	3			35		16
136+56, RT	*11	14	RESIDENTIAL ASPHALT	3			34		28
137+90, RT	*12	14	RESIDENTIAL ASPHALT	4			42		16
140+80, RT	*13	14	RESIDENTIAL ASPHALT	3			33		
TOTALS				25			257	73	327

PERMANENT EROSION

GRASSING			AGICULTURAL LIME	FERTILIZER MIXED GRADE	FERTILIZER NITROGEN CONTENT
ITEM	UNIT	QUANTITY	TN	TN	LB
PERMANENT GRASSING	AC	1	3	1	100
TEMPORARY GRASSING	AC	1		1	
TOTAL			3	2	100

EROSION CONTROL MATS, SLOPES	
TOTAL	300 SY

SIGNING AND MARKING

REMOVE & RESET SIGNS	
STATION & OFFSET	ROAD
104+85, 15.15' RT	SANDERS ROAD
120+93, 13.25' RT	SANDERS ROAD
121+89, 13.78' RT	SANDERS ROAD

THERMOPLASTIC SOLID TRAFFIC STRIPE 24" WHITE	
TOTAL	15 LF

THERMOPLASTIC SOLID TRAFFIC STRIPE 8" WHITE	
TOTAL	207 LF

TEMPORARY EROSION

MULCH	
TOTAL	21 TN

CONSTRUCTION EXIT	
TOTAL	2 EA

CONSTRUCT AND REMOVE FABRIC CHECK DAM - TYPE C SILT FENCE	
TOTAL	420 LF

CONSTRUCT AND REMOVE INLET SEDIMENT TRAP (SD2)	
TOTAL	21 EA

MAINTAIN TEMPORARY SILT FENCE, TYPE A	
TOTAL	2800 LF

MAINTAIN TEMPORARY SILT FENCE, TYPE C	
TOTAL	350 LF

MAINTAIN TEMP DITCH CHECKS - ALL TYPES	
TOTAL	210 LF

MAINTAIN CONSTRUCTION EXIT	
TOTAL	2 EA

MAINTAIN INLET SEDIMENT TRAP (SD2)	
TOTAL	21 EA

WATER QUALITY MONITORING AND SAMPLING	
TOTAL	2 EA

WATER QUALITY INSPECTIONS	
TOTAL	12 MONTHS

TEMPORARY SILT FENCE, TYPE A	
TOTAL	5600 LF

TEMPORARY SILT FENCE, TYPE C	
TOTAL	700 LF

Wolverton & Associates
Consulting Engineers + Land Surveyors
6745 Sugarloaf Parkway - Suite 100 - Duluth, Georgia 30097
Phone: 770-447-8999 - Fax: 770-447-9070
www.wolverton-assoc.com

REVISION DATES

SUMMARY QUANTITIES

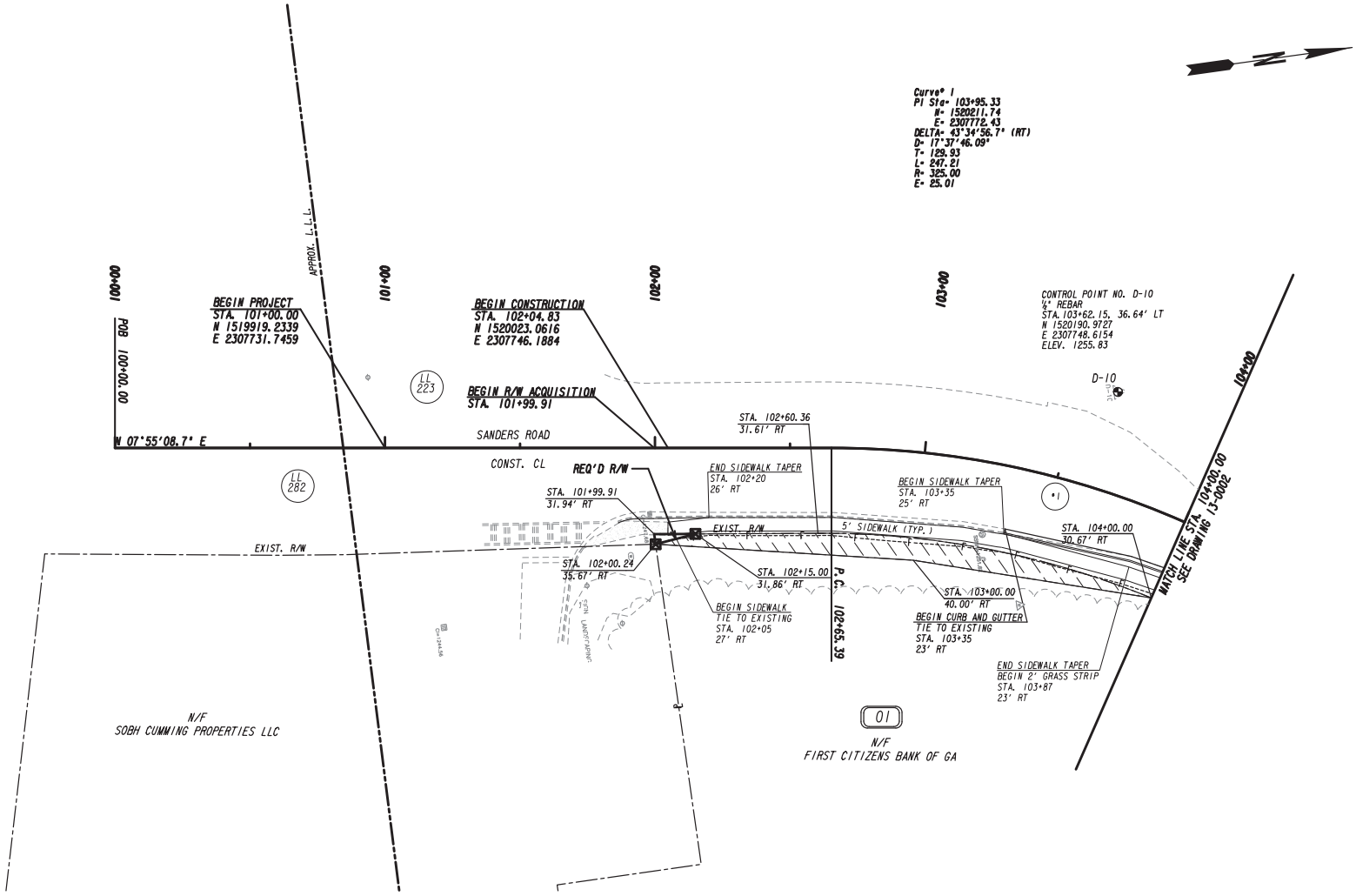
SANDERS RD SIDEWALK IMPROVEMENTS

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	06-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

DATE$$$ TIME$$$ $PRF8$ DGN
$USER$ $$PENTABLE$$

FORSYTH COUNTY DEPARTMENT OF TRANSPORTATION

PROJECT NO. PEB 27



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

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

Wolverton & Associates
Consulting Engineers + Land Surveyors
6745 Sugarloaf Parkway - Suite 100 - Duluth, Georgia 30097
Phone: 770-447-8999 - Fax: 770-447-9070
www.wolverton-assoc.com

SCALE IN FEET
0 20 40 80

REVISION DATES

MAINLINE PLAN

SANDERS RD SIDEWALK IMPROVEMENTS

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

DRAWING No. 13-0001

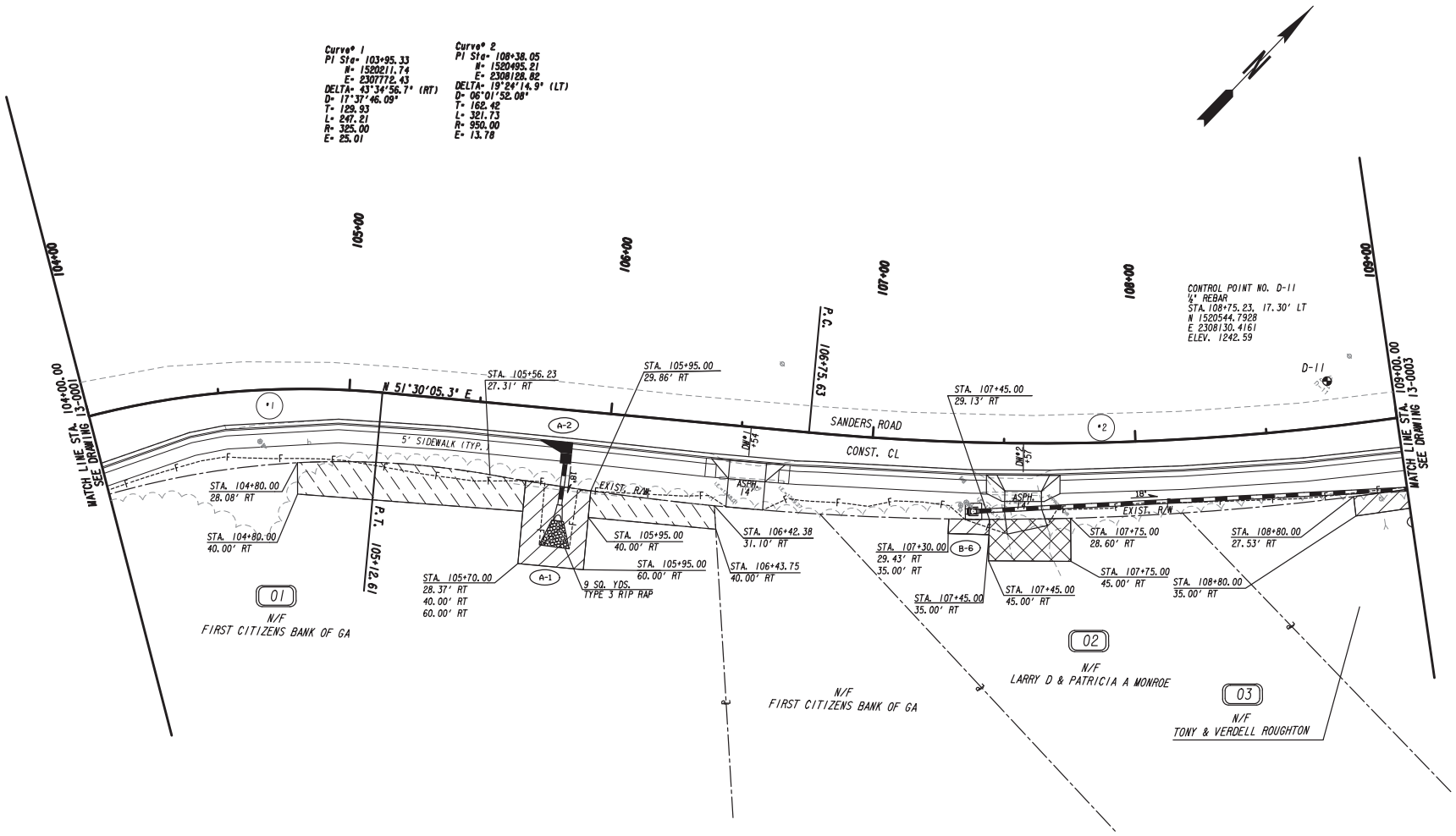
7/31/2015 GPLN

15TP013_3_13-0001.dgn 4/28/2016 3:33:47 PM

DATE$$$ TIME$$$ $PRF8$ DGN
$USER$ $$PENTABLE$$

FORSYTH COUNTY DEPARTMENT OF TRANSPORTATION

PROJECT NO. PEB 27



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

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

Wolverton & Associates
Consulting Engineers + Land Surveyors
6745 Sugarloaf Parkway - Suite 100 - Duluth, Georgia 30097
Phone: 770-447-8999 - Fax: 770-447-9070
www.wolverton-assoc.com

SCALE IN FEET
0 20 40 80

REVISION DATES

MAINLINE PLAN

SANDERS RD SIDEWALK IMPROVEMENTS

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

DRAWING No. 13-0002

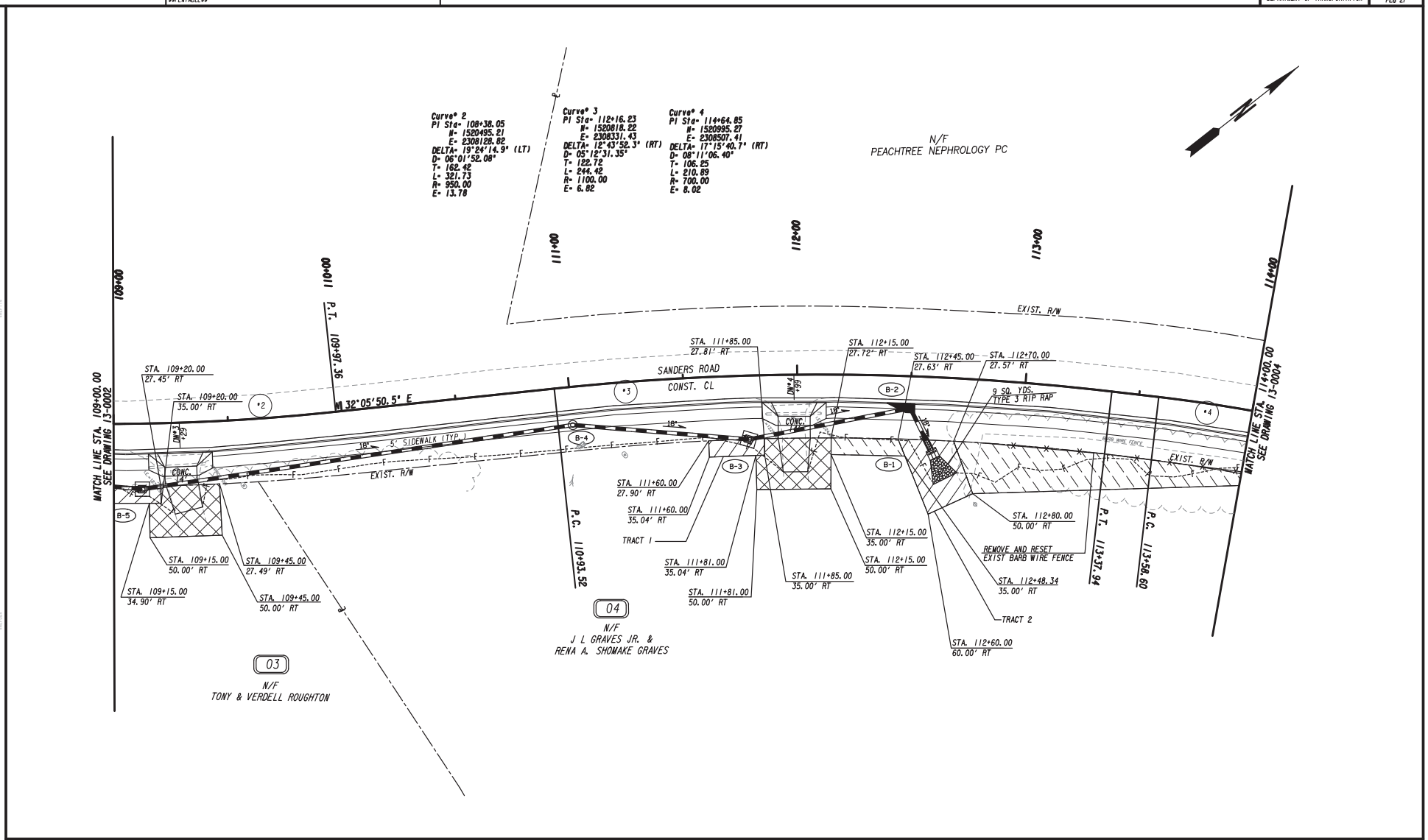
7/31/2015 GPLN

15TP013_3_13-0002.dgn 4/28/2016 3:33:50 PM

DATE$$$ TIME$$$ $PRF8$ DGN
$USER$ $$PENTABLE$$

FORSYTH COUNTY DEPARTMENT OF TRANSPORTATION

PROJECT NO. PEB 27



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

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

Wolverton & Associates
Consulting Engineers + Land Surveyors
6745 Sugarloaf Parkway - Suite 100 - Duluth, Georgia 30097
Phone: 770-447-8999 - Fax: 770-447-9070
www.wolverton-assoc.com

SCALE IN FEET
0 20 40 80

REVISION DATES

MAINLINE PLAN

SANDERS RD SIDEWALK IMPROVEMENTS

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

DRAWING No. 13-0003

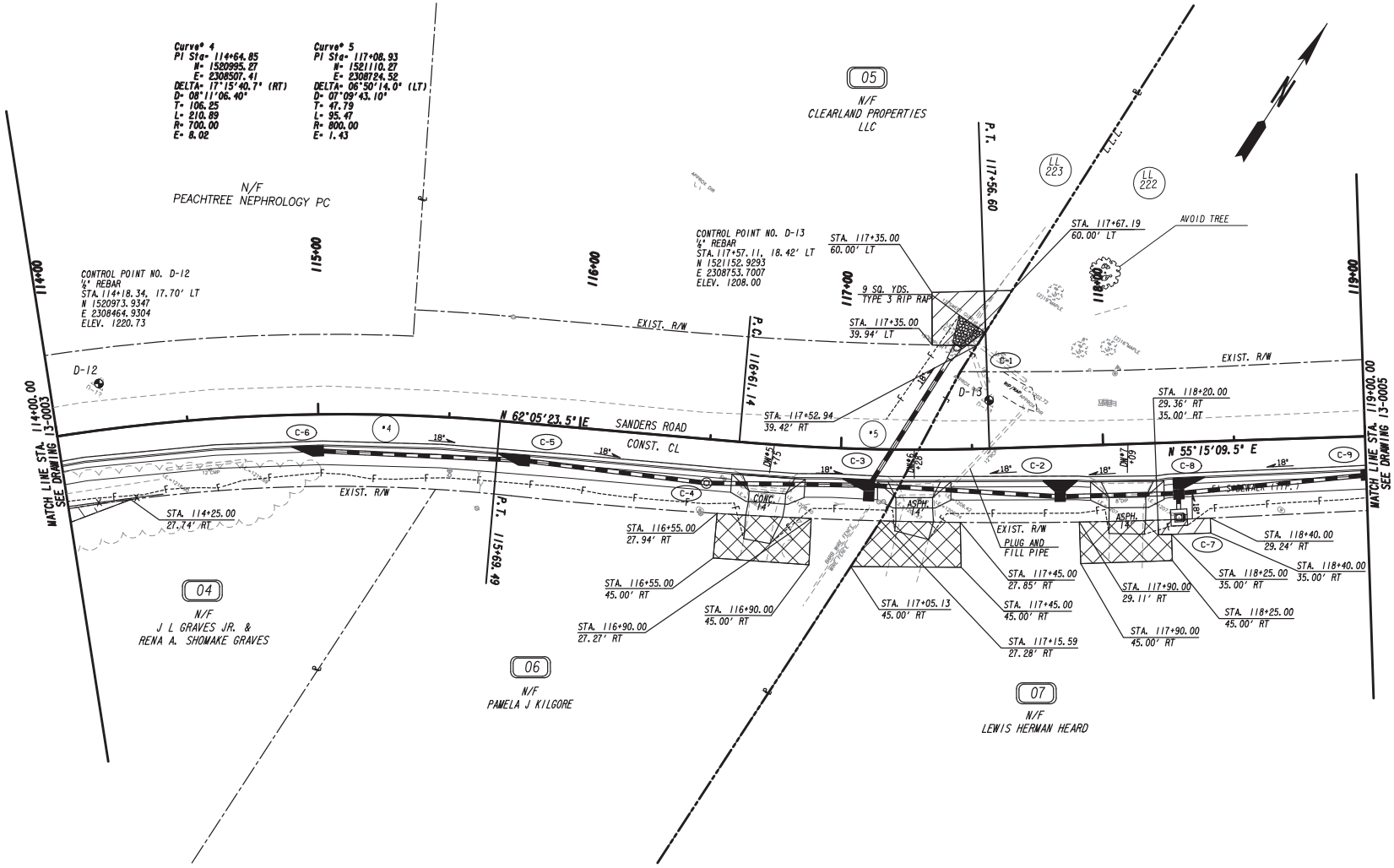
7/31/2015 GPLN

15TP013_3_13-0003.dgn 4/28/2016 3:33:53 PM

DATE$$$ TIME$$$ $PRFB$ DGN
$USER$ $$PENTABLE$$

FORSYTH COUNTY DEPARTMENT OF TRANSPORTATION

PROJECT NO. PEB 27



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

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

Wolverton & Associates
Consulting Engineers + Land Surveyors
6745 Sugarloaf Parkway - Suite 100 - Duluth, Georgia 30097
Phone: 770-447-8999 - Fax: 770-447-9070
www.wolverton-assoc.com

SCALE IN FEET
0 20 40 80

REVISION DATES

MAINLINE PLAN

SANDERS RD SIDEWALK IMPROVEMENTS

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

DRAWING No. 13-0004

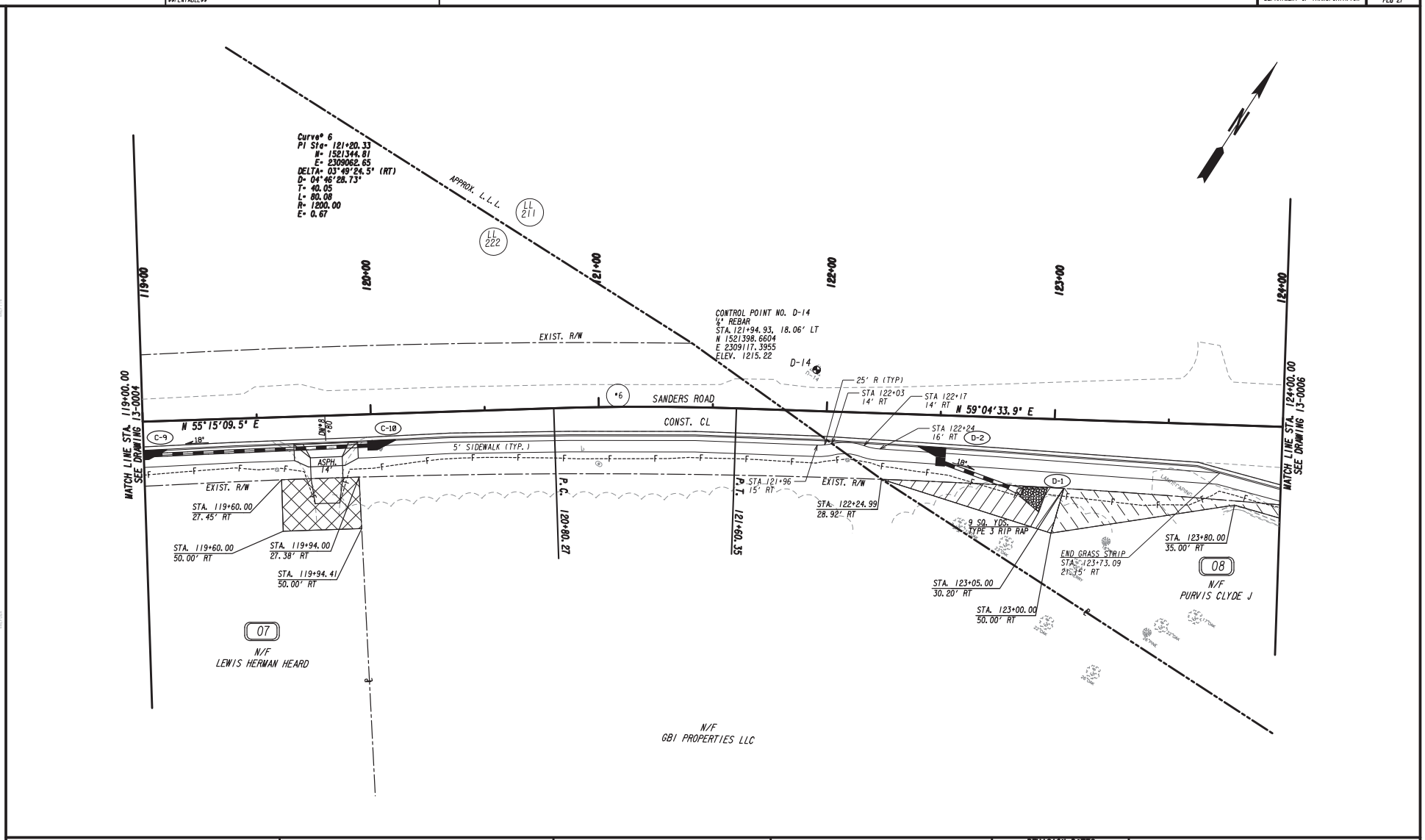
7/31/2015 GPLN

15TP013_3_13-0004.dgn 4/28/2016 3:33:56 PM

DATE$$$ TIME$$$ $PRF8$ DGN
$USER$ $$PENTABLE$$

FORSYTH COUNTY DEPARTMENT OF TRANSPORTATION

PROJECT NO. PEB 27



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

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

Wolverton & Associates
Consulting Engineers + Land Surveyors
6745 Sugarloaf Parkway - Suite 100 - Duluth, Georgia 30097
Phone: 770-447-8999 - Fax: 770-447-9070
www.wolverton-assoc.com

SCALE IN FEET
0 20 40 80

REVISION DATES

MAINLINE PLAN

SANDERS RD SIDEWALK IMPROVEMENTS

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

DRAWING No. 13-0005

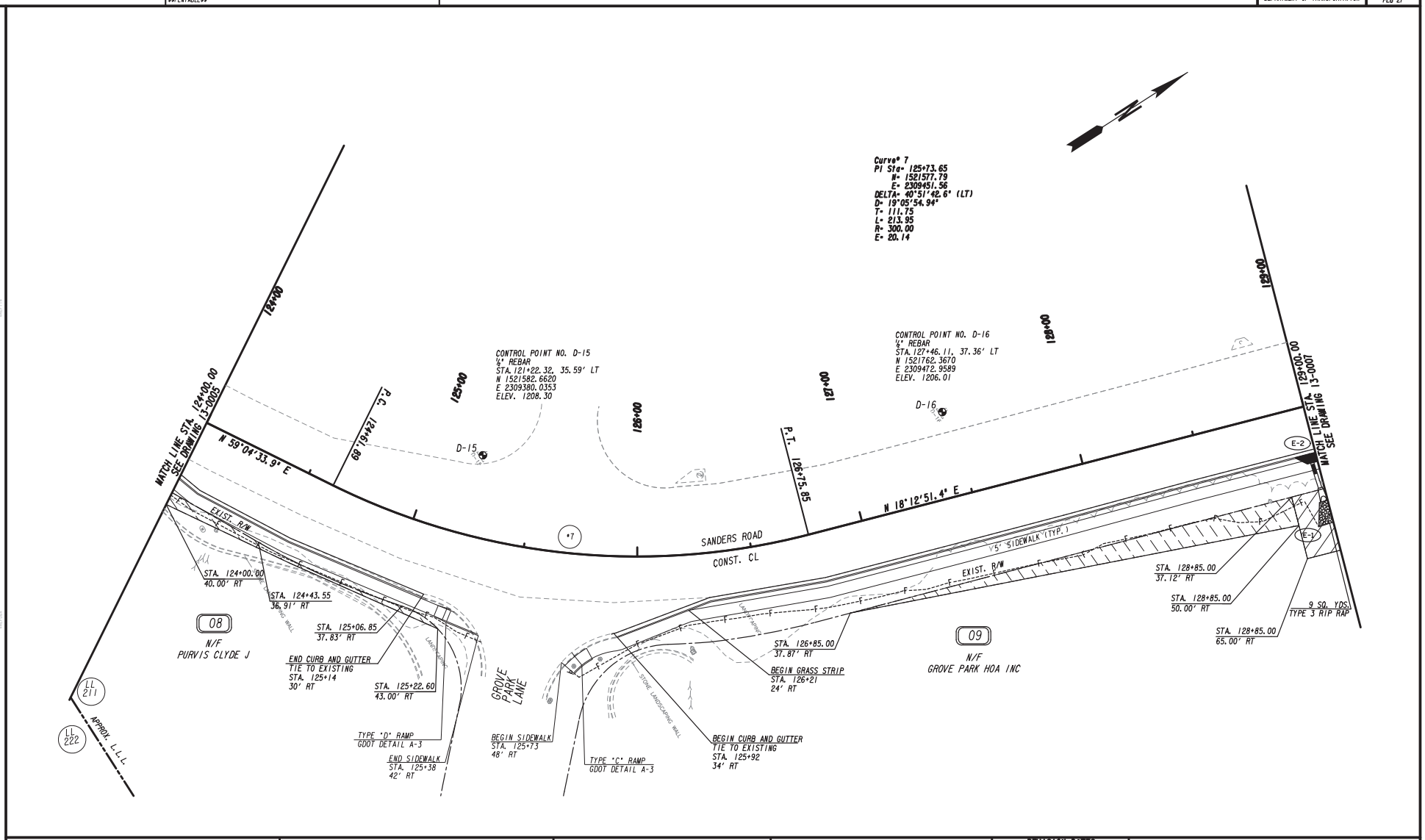
7/31/2015 GPLN

15TP013_3_13-0005.dgn 4/28/2016 3:33:59 PM

DATE$$$ TIME$$$ $PRF$$ DGN
$USER$ $$PENTABLE$$

FORSYTH COUNTY DEPARTMENT OF TRANSPORTATION

PROJECT NO. PEB 27



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

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

Wolverton & Associates
Consulting Engineers + Land Surveyors
6745 Sugarloaf Parkway - Suite 100 - Duluth, Georgia 30097
Phone: 770-447-8999 - Fax: 770-447-9070
www.wolverton-assoc.com

SCALE IN FEET
0 20 40 80

REVISION DATES

MAINLINE PLAN

SANDERS RD SIDEWALK IMPROVEMENTS

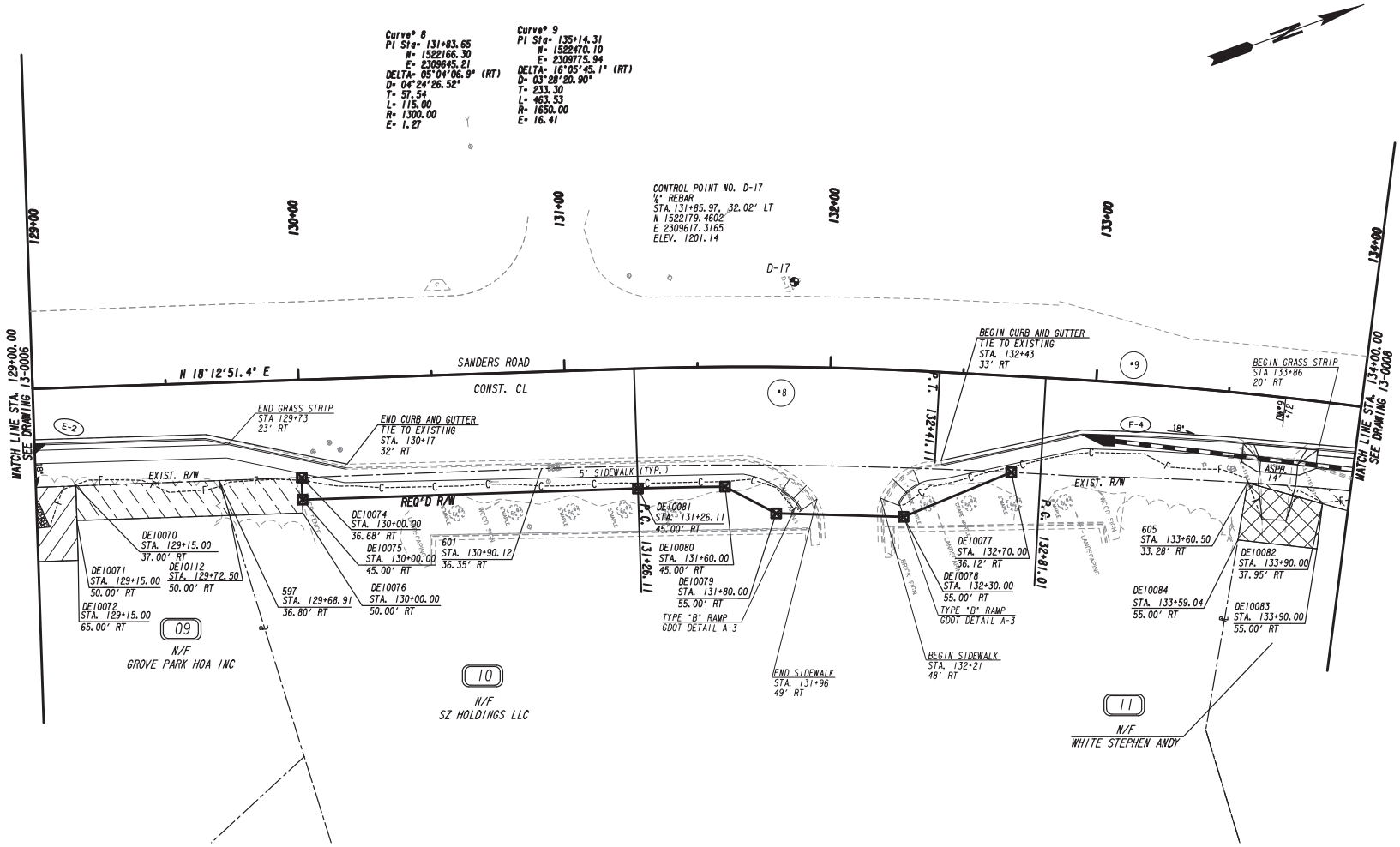
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 13-0006

7/31/2015 GPLN

15TP013_3_13-0006.dgn 4/28/2016 3:34:02 PM

DATE:$$$ TIME:$$$ $USER$ | $PRF8$ $$PENTABLE$$ | DGN | FORSYTH COUNTY DEPARTMENT OF TRANSPORTATION | PROJECT NO. PEB 27



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

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

Wolverton & Associates
Consulting Engineers + Land Surveyors
6745 Sugarloaf Parkway - Suite 100 - Duluth, Georgia 30097
Phone: 770-447-8999 - Fax: 770-447-9070
www.wolverton-assoc.com

SCALE IN FEET
0 20 40 80

REVISION DATES

MAINLINE PLAN

SANDERS RD SIDEWALK IMPROVEMENTS

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

DRAWING No. 13-0007

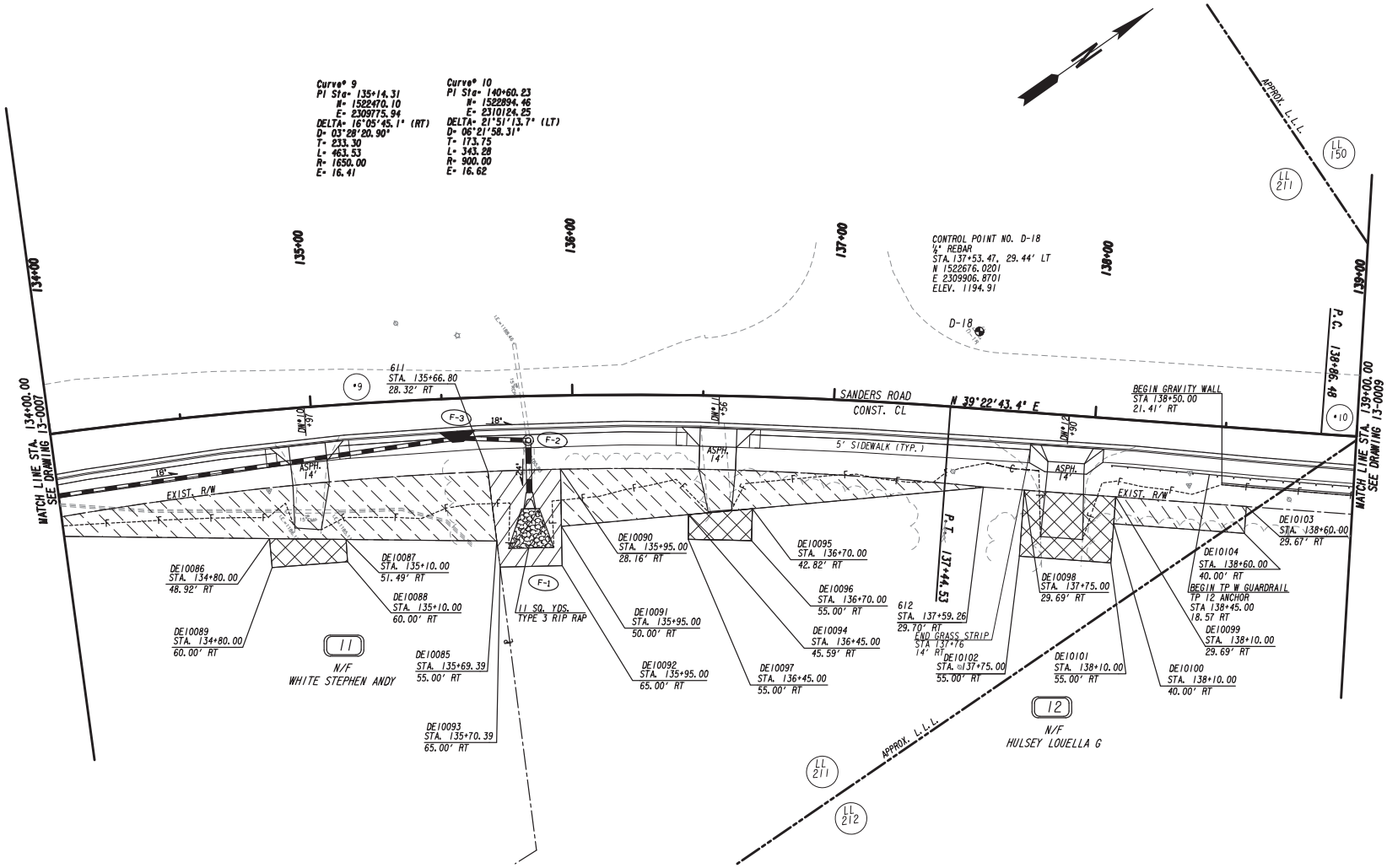
7/31/2015 GPLN

15TP013_3_13-0007.dgn 4/28/2016 3:34:05 PM

DATE$$$ TIME$$$ $PRF8$ DGN
$USER$ $$PENTABLE$$

FORSYTH COUNTY DEPARTMENT OF TRANSPORTATION

PROJECT NO. PEB 27



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

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

Wolverton & Associates
Consulting Engineers + Land Surveyors
6745 Sugarloaf Parkway - Suite 100 - Duluth, Georgia 30097
Phone: 770-447-8999 - Fax: 770-447-9070
www.wolverton-assoc.com

SCALE IN FEET
0 20 40 80

REVISION DATES

MAINLINE PLAN

SANDERS RD SIDEWALK IMPROVEMENTS

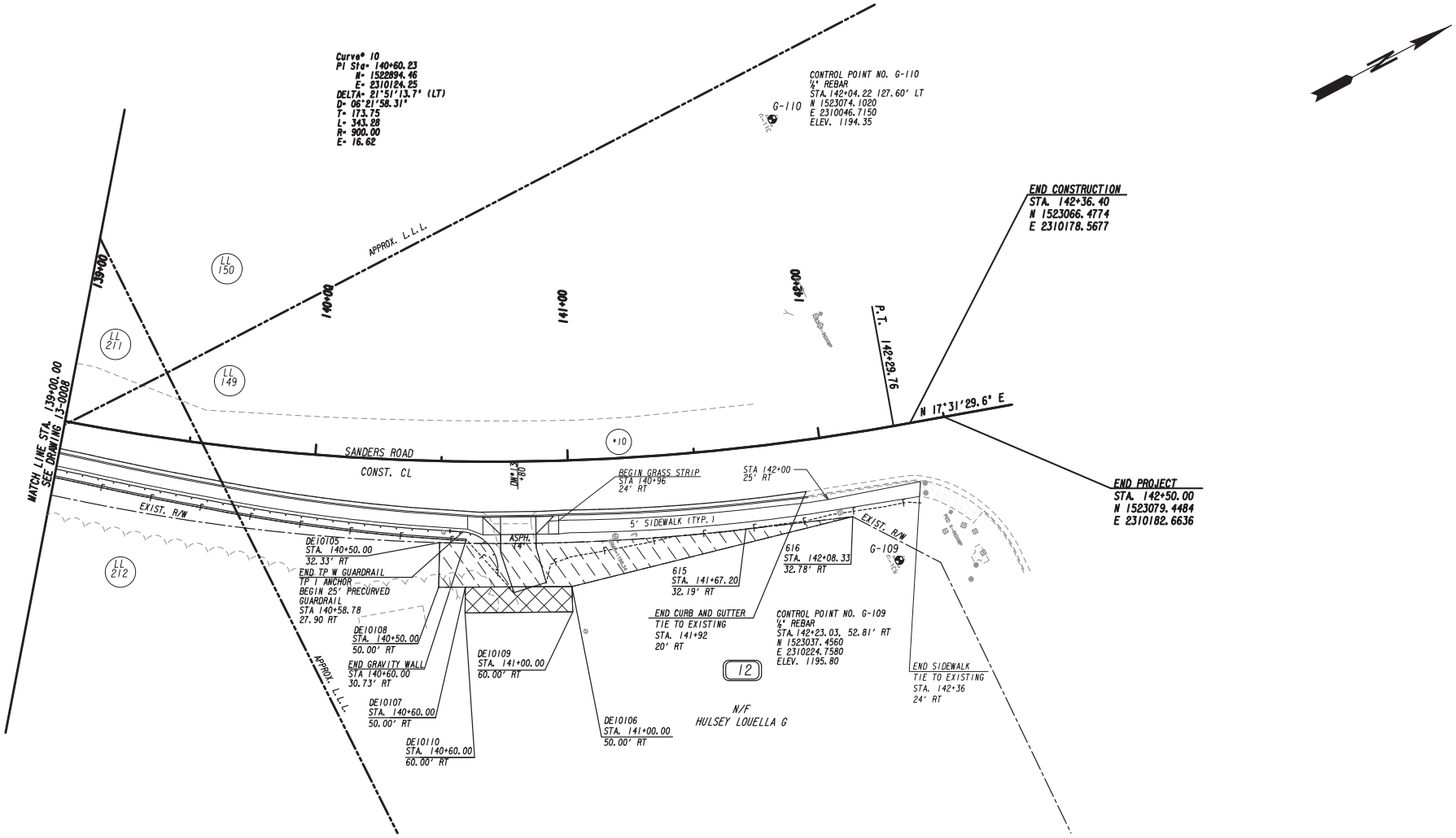
CHECKED:		DATE:	
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 13-0008

7/31/2015 GPLN

15TP013_3_13-0008.dgn 4/28/2016 3:34:08 PM

DATE:$$$ TIME:$$$ $USER$ | $PRF8$ $$PENTABLE$$ | DGN | FORSYTH COUNTY DEPARTMENT OF TRANSPORTATION | PROJECT NO. PEB 27



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

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

Wolverton & Associates
Consulting Engineers + Land Surveyors
6745 Sugarloaf Parkway - Suite 100 - Duluth, Georgia 30097
Phone: 770-447-8999 - Fax: 770-447-9070
www.wolverton-assoc.com

SCALE IN FEET
0 20 40 80

REVISION DATES

MAINLINE PLAN

SANDERS RD SIDEWALK IMPROVEMENTS

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

DRAWING No. 13-0009

7/31/2015 GPLN

15TP013_3_13-0009.dgn 4/28/2016 3:34:11 PM