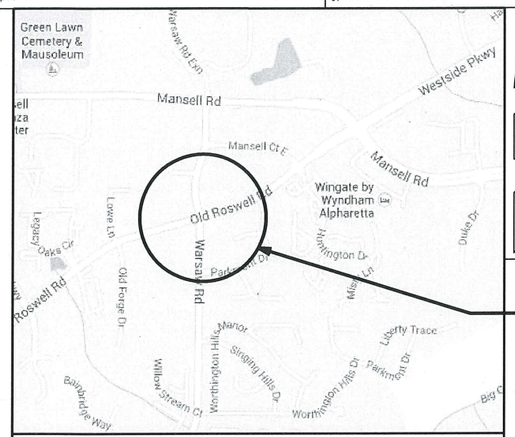
4/28/2016 csample	GPLOT-V8 gplotborder-V81-P0.tbl	0090612_01-001.dgn GRWCOV	STATE GA	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS

TRANSPORTATION DEPARTMENT
CITY OF ROSWELL

PLAN AND PROFILE OF PROPOSED
INTERSECTION IMPROVEMENT
OLD ROSWELL ROAD AT WARSAW ROAD



PROJECT LOCATION

LOCATION SKETCH

THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL GEORGIA COORDINATE SYSTEM OF 1984 (NAD 1983)1994 WEST ZONE. AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

DESIGN DATA

SPEED DESIGN:

OLD ROSWELL RD:	
WEST OF WARSAW RD	40 MPH
EAST OF WARSAW RD	35 MPH
WARSAW RD	35 MPH

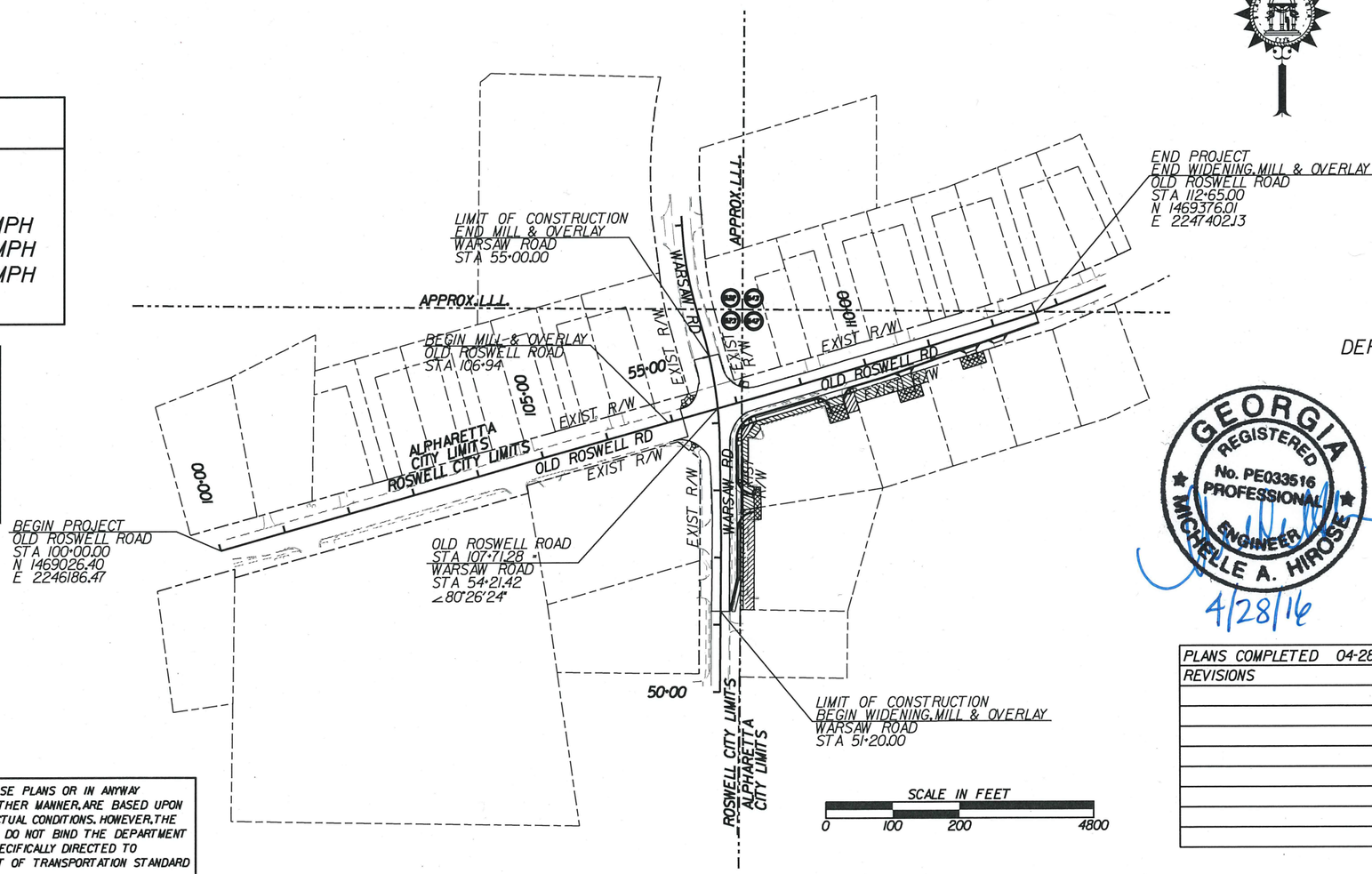
LENGTH OF PROJECT	FULTON COUNTY COUNTY No.121
	MILES
NET LENGTH OF ROADWAY	0.24
NET LENGTH OF BRIDGES	000
NET LENGTH OF PROJECT	0.24
NET LENGTH OF EXCEPTIONS	000
GROSS LENGTH OF PROJECT	0.24

FUNCTIONAL CLASS:
OLD ROSWELL ROAD - MINOR ARTERIAL
WARSAW ROAD - MINOR ARTERIAL

THIS PROJECT IS 100% IN FULTON COUNTY AND IS 100% IN CONG. DIST. NO. 6 .

PROJECT DESIGNATION: EXEMPT

DESIGNED IN ENGLISH UNITS.



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 GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

ROSWELL GEORGIA SINCE 1854

CITY OF ROSWELL
DEPARTMENT OF TRANSPORTATION
38 HILL STREET, SUITE 235
ROSWELL, GA 30075
770-594-6420

GEORGIA REGISTERED No. PE033516 PROFESSIONAL ENGINEER MICHELLE A. HIROSE

4/28/16

PLANS COMPLETED 04-28-16	
REVISIONS	

DRAWING No. 01-001

SHEET NO.	DWG NO.	DESCRIPTION
1	01-001	COVER
2	02-001	INDEX
3	03-001	REVISION SUMMARY
4	04-001	GENERAL NOTES
5-8	05-001 TO 05-004	TYPICAL SECTIONS
9-10	06-001 TO 06-002	SUMMARY OF QUANTITIES
11-13	13-001 TO 13-003	MAINLINE PLAN
14	14-001	CROSSROAD PLAN
15-16	17-001 TO 17-002	DRIVEWAY PROFILES
17	22-001	DRAINAGE PROFILES
18-25	23-001 TO 23-008	CROSS SECTIONS
26-30	24-000 TO 24-004	UTILITY PLANS
31-34	26-001 TO 26-004	SIGNING AND MARKING PLANS
35	27-001	SIGNAL PLANS
36-42	52-001 TO 52-007	EROSION CONTROL LEGEND AND UNIFORM CODES
43-46	54-001 TO 54-004	BMP LOCATION DETAILS
47	60-001	RIGHT-OF-WAY COVER
48-52	60-002 TO 60-006	RIGHT-OF-WAY MAP
		GEORGIA CONSTRUCTION STANDARDS
	1019A	DROP INLETS (BUILT-IN-PLACE) (8-99)
	1030D1	CONCRETE & METAL PIPE CULVERTS, SHEET 1 OF 3 (9-01)
	1030D2	CONCRETE & METAL PIPE CULVERTS, SHEET 2 OF 3 (9-01)
	1030D3	CONCRETE & METAL PIPE CULVERTS, SHEET 3 OF 3 (9-01)
	1120	FLARED END SECTIONS FOR PIPES (6-06)
	9032B	CONCRETE CURB & GUTTER, CONCRETE CURBS, CONCRETE MEDIANS (11-11)
	9100	TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, MISCELLANEOUS DETAILS (3-06)
	9107	TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON MULTI-LANE UNDIVIDED HIGHWAY (3-06)
		GEORGIA CONSTRUCTION DETAILS
	A-1	DRIVEWAYS WITH TAPERED ENTRANCES, CONCRETE VALLEY GUTTERS (7-11)
	A-2	CONCRETE VALLEY GUTTER AT STREET INTERSECTION, 6" OR 8" VALLEY GUTTER
		AT DRIVE (7-11)
	A-3	CONCRETE SIDEWALK DETAILS, CURB CUT (WHEELCHAIR) RAMPS (6-09)
	A-4	DETECTABLE WARNING SURFACE, TRUNCATED DOME SIZE, SPACING & ALIGNMENT
		REQUIREMENTS (6-09)
	D-24A	TEMPORARY SILT FENCE - SHEET 1 OF 4 (1-11)
	D-24C	TEMPORARY SILT FENCE, J-HOOK, INLET SEDIMENT TRAPS - SHEET 3 OF 4 (1-11)
	D-41	CONSTRUCTION EXIT (1-11)
	T-01	DETAILS OF SIGN PLATES (1-00)
	T-03A	TYPE 7, 8, AND 9 SQUARE TUBE POST INSTALLATION DETAIL (7-02)
	T-05A	DETAILS OF REGULATORY SIGNS, SHEET 1 OF 2 (1-03)
	T-06	DETAILS OF OVERHEAD SIGNS (1-00)
	T-11A	DETAILS OF PAVEMENT MARKING PLACEMENT NON-LIMITED ACCESS ROADWAY (1-00)
	T-12A	DETAILS OF PAVEMENT MARKING ARROW LOCATION (1-00)
	T-12B	DETAILS OF PAVEMENT MARKINGS - ARROWS (4-00)
	T-13A	DETAILS OF PAVEMENT MARKING WORDS - SHEET 1 OF 2 (1-00)
	T-14	DETAIL OF PAVEMENT MARKING HATCHING (11-08)
	TS-01	INDUCTIVE-LOOP DETECTOR INSTALLATION (4-10)
	TS-02	PULLBOX ASSEMBLY AND INSTALLATION (4-10)
	TS-03A	PEDESTRIAN FACILITIES INSTALLATION DETAILS (4-10)
	TS-10	FIBER OPTICS DETAILS - 1 OF 2 (4-10)
	TS-11	FIBER OPTICS DETAILS - 2 OF 2 (4-10)

SHEET NO.	DWG NO.	DESCRIPTION

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT

OFFICE: ENGINEERING DESIGN DIVISION

INDEX

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 02-001

4/27/2012 GPLN

4/25/2016 9:13:43 AM csample	GPLOT-V8 gplotborder-V81-P0.tbl	0090612_03-001.dgn	STATE GA	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS

DATE	SHEET NO.	REVISION

DATE	SHEET NO.	REVISION

REVISION DATES		

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT

OFFICE: ENGINEERING DESIGN DIVISION

REVISION SUMMARY

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 03-001

4/27/2012 GPLN

GENERAL NOTES

1. A NOTICE OF INTENT IS NOT REQUIRED FOR THIS PROJECT.
2. ALL CONSTRUCTION WILL BE ACCOMPLISHED UNDER TRAFFIC UNLESS SPECIFIED OTHERWISE.
3. ALL TRAFFIC CONTROL MUST FOLLOW MUTCD PART 6 "TEMPORARY TRAFFIC CONTROL."
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY RESULTING BROKEN WATER, SANITARY SEWER PIPE OR OTHER UTILITIES DURING CONSTRUCTION.
5. ALL EXISTING WATER, SANITARY SEWER PIPE AND OTHER UTILITIES SHALL BE RETAINED UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL DISPOSE OF ALL GUARDRAIL, WOOD STRAIN POLES, AND SIGNS ONCE THEY HAVE BEEN REMOVED. BURIAL OF THESE ITEMS WILL NOT BE ALLOWED WITHIN THE PROJECT LIMITS.
7. PAYMENT FOR ALL REMOVALS SHALL BE INCLUDED IN THE OVERALL BID PRICE FOR GRADING COMPLETE.
8. 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. 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 OTHERWISE 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 - 1.5" ASPH CONC 9.5mm SUPERPAVE (165 LB/SY)
   GRADED AGGREGATE BASE, 6"

   CONCRETE - RESIDENTIAL DRIVEWAY CONCRETE, 6" THICK
   COMMERCIAL DRIVEWAY CONCRETE, 8" THICK

9. WARNING SURFACES FOR RAMPS SHALL BE FEDERAL STANDARD 595 COLOR FS 20109 (DARK RED IN COLOR), CAST-IN-PLACE DETECTABLE WARNING TILE.
10. TOTAL DISTURBED AREA = 0.36 ACRES
    TOTAL PROJECT AREA = 1.94 ACRES

STANDARD SIGNS GENERAL NOTES

1. ALL ITEMS NECESSARY FOR COMPLIANCE WITH THESE REQUIREMENTS SHALL BE INCLUDED IN THE PRICE BID FOR THE SPECIFIC ITEM.
2. ALL SIGNS AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES,(MUTCD), LATEST EDITION, AND ANY APPLICABLE CITY OF ROSWELL STANDARDS.
3. ALL INSTALLATION MATERIALS AND METHODS SHALL COMPLY WITH THE CURRENT GEORGIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
4. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
5. ALL SIGNS SHALL HAVE TYPE II RETROREFLECTIVE SHEETING EXCEPT SCHOOL RELATED SIGNS, WITH THEIR REQUIRED PLAQUES AND ADVISORY NAME BLADES, WHICH SHALL HAVE FLUORESCENT YELLOW/GREEN COLOR AND TYPE II SHEETING.
6. TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL STANDARD HIGHWAY SIGNS REQUIRING REFLECTORIZED BACKGROUNDS EXCEPT AS SPECIFIED BELOW OR SPECIFIED OTHERWISE IN THE PLANS. EITHER CLASS I OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
7. TYPE II (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (RI-1, RI-2, RI-3P, R5-1, R5-1A, R5-1B).
8. TYPE II (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (SI-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS, BICYCLE CROSSING (WII-1) SIGNS, AND PEDESTRIAN CROSSING (WII-2 AND WIIA-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 II (VERY HIGH INTENSITY) REFLECTIVE SHEETING BACKGROUNDS OF THE APPROPRIATE COLOR.
9. TYPE II (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.
10. ALL SIGNS SHALL BE ON 5052-H38 FLAT ALUMINUM ALLOY (0.080 GAUGE THICKNESS) WITH ROUNDED CORNERS. ALL SIGNS SHALL MEET OR EXCEED ASTM D 4956 SPECIFICATIONS FOR RETROREFLECTIVITY. SIGN COLORS SHALL BE MATCHED VISUALLY AND BE WITHIN THE COLOR TOLERANCE LIMITS SHOWN ON THE APPROPRIATE HIGHWAY COLOR TOLERANCE CHARTS ISSUED BY THE FHWA UTILIZING THE INSTRUCTIONS THEREON.

UTILITY OWNER	SERVICE	CONTACT NUMBERS	SHEET NUMBERS
AT&T	COMMUNICATIONS	770-514-9755	24-001 to 24-005
AGL RESOURCES	NATURAL GAS	404-584-4431	24-001 to 24-005
CHARTER COMMUNICATIONS	CABLE	404-597-2712	24-001 to 24-005
COMCAST CABLE	CABLE	Charles_Ross@cable.comcast.com	24-001 to 24-005
FIBERLIGHT	FIBEROPTIC NETWORK SERVICES	770-335-9967	24-001 to 24-005
FULTON COUNTY WATER & SEWER	WATER & SEWER	404-612-9411	24-001 to 24-005
FULTON COUNTY WATER & SEWER	WATER & SEWER	404-612-7537	24-001 to 24-005
GEORGIA POWER COMPANY	ELECTRICITY	706-340-6457	24-001 to 24-005
TIME WARNER CABLE	CABLE	678-526-3767	24-001 to 24-005
VERIZON/MCI	NETWORK SERVICES	770-471-0041	24-001 to 24-005
ZAYO GROUP	NETWORK SERVICES	todd.swafford@zayo.com	24-001 to 24-005

STANDARD SIGNS GENERAL NOTES (CONT'D)

11. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS OF THE MUTCD, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR WITHOUT PRIOR APPROVAL FROM CITY OF ROSWELL DEPARTMENT OF TRANSPORTATION.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL SIGNS/POSTS/PAVEMENT MARKINGS THAT ARE DUPLICATED OR CONTRARY TO THESE PLANS.
13. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF EXISTING TRAFFIC CONTROL SIGNS THROUGHOUT CONSTRUCTION. THIS INCLUDES CLEANING AND REPLACEMENT OF EXISTING SIGNS SHOULD THESE SIGNS NEED CLEANING, REPAIR OR REPLACEMENT DURING CONSTRUCTION.
14. ALL SIGNS SHALL REMAIN IN PLACE UNLESS OTHERWISE NOTED ON PLANS.
15. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL ERADICATE BY WATERBLASTING ALL EXISTING MARKING IN CONFLICT WITH THE PLANS (OLD ROSWELL ROAD, STA 100+00 TO STA 107+16)

UTILITIES GENERAL NOTES

1. A FIELD VERIFICATION OF HORIZONTAL AND VERTICAL ALIGNMENTS OF EXISTING WATER AND SEWER LINES SHALL BE PERFORMED BY THE CONTRACTOR BEFORE CONSTRUCTION.
2. ALL WATER VALVES, WATER METER BOXES AND SEWER MANHOLES SHALL BE ADJUSTED TO THE PROPOSED GRADE.

GEORGIA 811 Utilities Protection Center, Inc
Know what's below. Call before you dig.

ROSWELL GEORGIA SINCE 1854

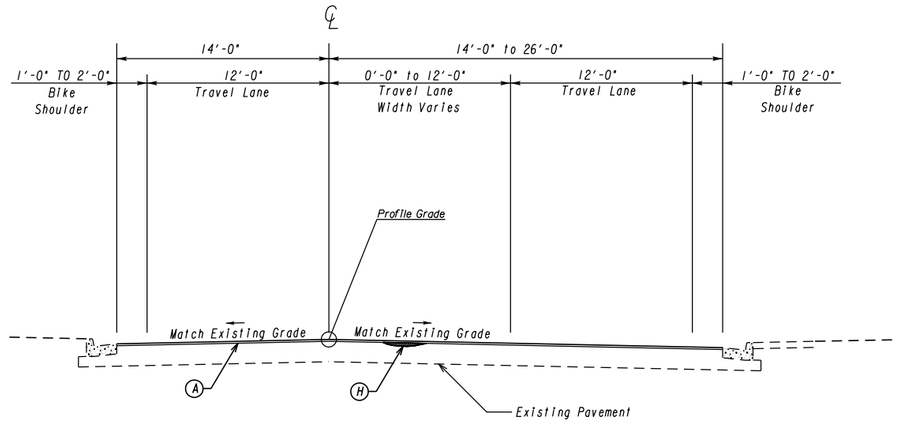
REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

GENERAL NOTES

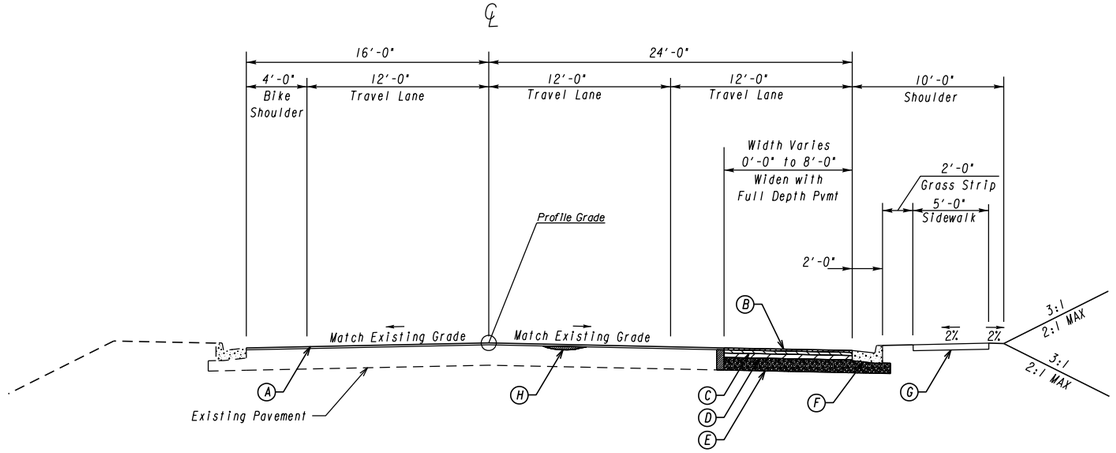
OLD ROSWELL RD AT WARSAW RD

DRAWING No. 04-001



TYPICAL SECTION 1
TANGENT SECTION
OLD ROSWELL ROAD
STA 106+94.00 TO STA 107+70.28

(A) MILL TO 1-1/2" DEPTH. OVERLAY WITH RECYCLED ASPH. CONC. 9.5 MM SUPERPAVE, GP 2 ONLY, INCL. BITUM MATL & H LIME (165 LB/SQ. YDS.)
(B) 1-½" RECYCLED ASPH. CONC. 9.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB.SQ. YDS)
(C) 2" RECYCLED ASPH. CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB.SQ. YDS)
(D) 4" RECYCLED ASPH. CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (440 LB.SQ. YDS)
(E) 12" GRADED AGGREGATE BASE
(F) 6"x24" CONC. CURB & GUTTER, GA. STD. 9032-B, TYPE 2
(G) CONCRETE SIDEWALK, 4", GA. DETAIL A-3
(H) ASPHALTIC CONC. LEVELING, AS REQUIRED



TYPICAL SECTION 2
TANGENT SECTION
OLD ROSWELL ROAD
STA 107+70.28 TO STA 109+76.00

ROSWELL GEORGIA SINCE 1854

NOT TO SCALE

REVISION DATES

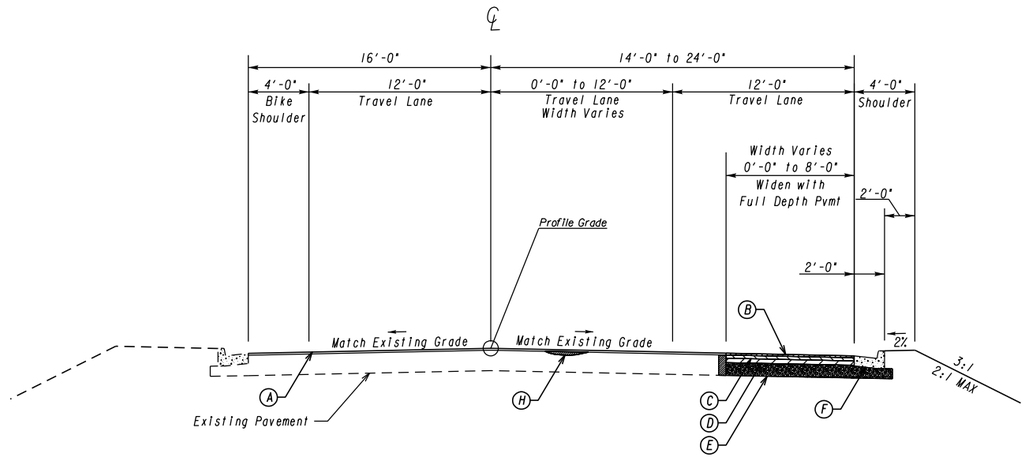
CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

TYPICAL SECTIONS

OLD ROSWELL RD AT WARSAW RD

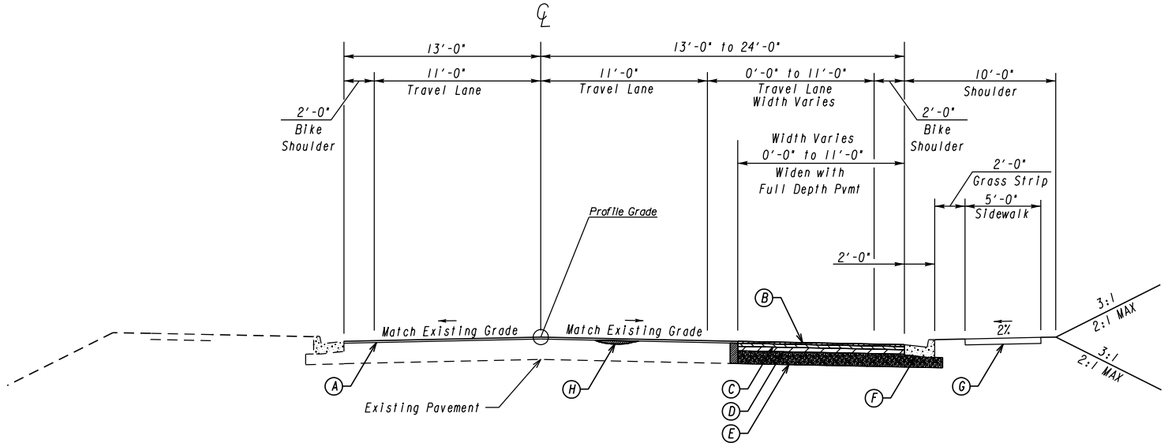
DRAWING No. 05-001

12/14/2012 GPLN



(A) MILL TO 1-1/2" DEPTH. OVERLAY WITH RECYCLED ASPH. CONC. 9.5 MM SUPERPAVE, GP 2 ONLY, INCL. BITUM MATL & H LIME (165 LB/SQ. YDS.)
(B) 1-½" RECYCLED ASPH. CONC. 9.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB. SQ. YDS)
(C) 2" RECYCLED ASPH. CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB. SQ. YDS)
(D) 4" RECYCLED ASPH. CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (440 LB. SQ. YDS)
(E) 12" GRADED AGGREGATE BASE
(F) 6"x24" CONC. CURB & GUTTER, GA. STD. 9032-B, TYPE 2
(G) CONCRETE SIDEWALK, 4", GA. DETAIL A-3
(H) ASPHALTIC CONC. LEVELING, AS REQUIRED

TYPICAL SECTION 3
TANGENT SECTION
OLD ROSWELL ROAD
STA 109+76.00 TO STA 112+65.00



TYPICAL SECTION 4
TANGENT SECTION
WARSAW ROAD
STA 51+20.00 TO STA 52+92.00

ROSWELL GEORGIA SINCE 1854

NOT TO SCALE

REVISION DATES

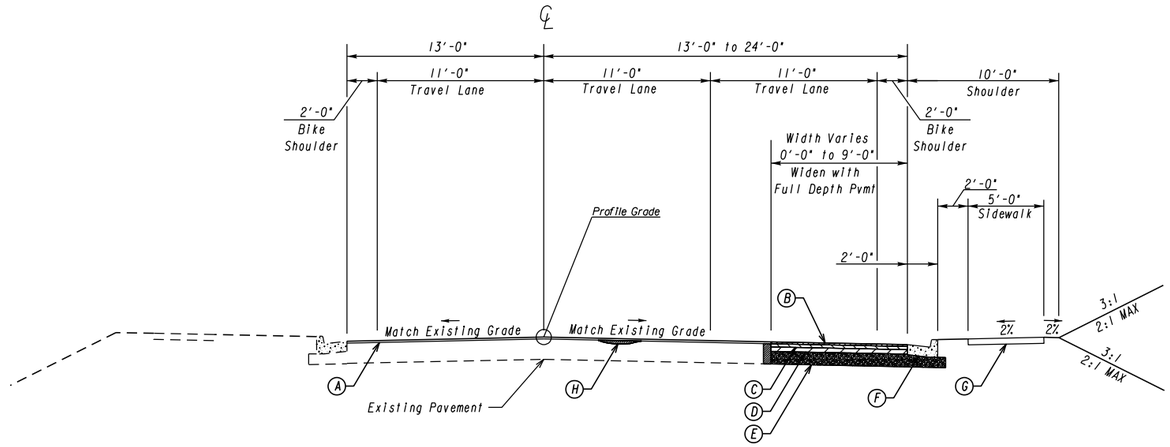
CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

TYPICAL SECTIONS

OLD ROSWELL RD AT WARSAW RD

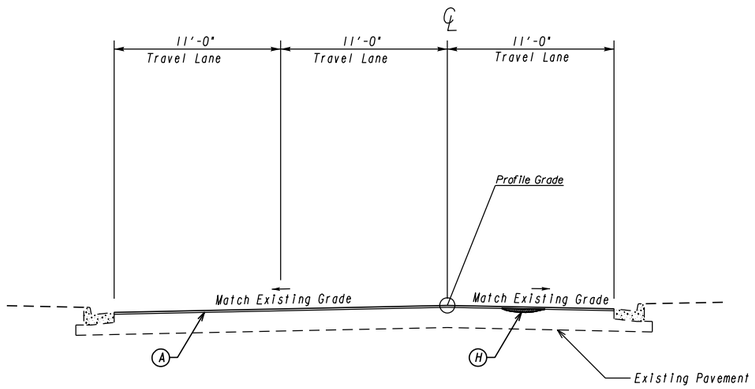
DRAWING No. 05-002

12/14/2012 GPLN



TYPICAL SECTION 5
TANGENT SECTION
WARSAW ROAD
STA 52+92.00 TO STA 54+21.42

Ⓐ MILL TO 1-1/2" DEPTH. OVERLAY WITH RECYCLED ASPH. CONC. 9.5 MM SUPERPAVE, GP 2 ONLY, INCL. BITUM MATL & H LIME (165 LB/SQ. YDS.)
Ⓑ 1-½" RECYCLED ASPH. CONC. 9.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LB. SQ. YDS)
Ⓒ 2" RECYCLED ASPH. CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LB. SQ. YDS)
Ⓓ 4" RECYCLED ASPH. CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (440 LB. SQ. YDS)
Ⓔ 12" GRADED AGGREGATE BASE
Ⓕ 6"x24" CONC. CURB & GUTTER, GA. STD. 9032-B, TYPE 2
Ⓖ CONCRETE SIDEWALK, 4", GA. DETAIL A-3
Ⓗ ASPHALTIC CONC. LEVELING, AS REQUIRED



TYPICAL SECTION 6
TANGENT SECTION
WARSAW ROAD
STA 54+21.42 TO STA 55+00.00

12/14/2012 GPLN

ROSWELL GEORGIA SINCE 1854

NOT TO SCALE

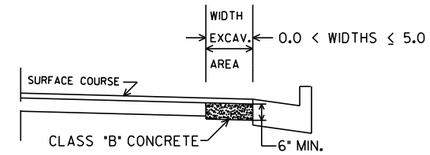
REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

TYPICAL SECTIONS

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 05-003



NO SCALE
CLASS "B" CONCRETE BASE OR PAVEMENT WIDENING
Item Code 500-9999 - Cu. Yds.

In excavated areas between the existing paving and new curb and gutter that are 5'-0" or less in width, Class "B" concrete shall be placed in lieu of the base and paving specified by the typical section. Payment will be made under "Class B Concrete Base and Pavement Widening".

In excavated areas greater than 5'-0" in width, the Contractor shall place base and paving as specified on the typical section.

See plans for details of curb and gutter construction.

CLASS "B" CONCRETE BASE OR WIDENING DETAIL

ROSWELL GEORGIA SINCE 1854

NOT TO SCALE

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

TYPICAL SECTIONS

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 05-004

12/14/2012 GPLN

SUMMARY OF QUANTITIES

TRAFFIC CONTROL	
TOTAL	LUMP SUM

GRADING COMPLETE	
TOTAL	LUMP SUM

MILL ASPH CONC PVMT TO 1-1/2"	
TOTAL	3442 SY

CONC SIDEWALK - 4 IN.	
TOTAL	250 SY

CONCRETE CURB & GUTTER 6"X 24" TP 2, STD. 9032-B	
TOTAL	807 LF

SAWED JOINTS IN EXIST PAVEMENT - ASPHALT	
TOTAL	500 LF

CLASS "B" CONCRETE BASE OR WIDENING	
TOTAL	9 CY

DRIVEWAY CONCRETE - 6 IN.	
TOTAL	76 SY

CONC VALLEY GUTTER, 6 IN.	
TOTAL	51 SY

CONC VALLEY GUTTER, 8 IN.	
TOTAL	96 SY

SURFACING QUANTITIES

ITEMS	UNIT	ROADWAY	DRIVEWAYS	TEMPORARY PAVEMENT	TOTALS
GRADED AGGREGATE BASE COURSE	TON	371	37		408
RECYCLED ASPH CONC, 25MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TON	200	0		200
RECYCLED ASPH CONC, 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	TON	85	15		100
RECYCLED ASPH CONC, 9.5MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	TON	333	12		345
BITUMINOUS TACK COAT	GAL	59	7		66
RECYCLED ASPHALTIC CONCRETE LEVELING (AS DIRECTED BY THE ENGINEER)	TON	53			53

SUMMARY OF DRIVEWAY QUANTITIES

* NOTE: FOR INFORMATION ONLY; SEE SURFACING QUANTITIES BLOCK.

LOCATION	WIDTH	1-1/2 IN. 9.5MM ASPH CONC.	2 IN. 19MM ASPH CONC.	6 IN. GRADED AGGREGATE	6 IN. VALLEY GUTTER	8 IN. VALLEY GUTTER	6 IN. DRIVEWAY CONCRETE	BITUM TACK COAT
STATION & SIDE	FEET	TON	TON	TON	SQ. YD.	SQ. YD.	SQ. YD.	GAL.
109+42 RT	20	6	7	18		42		3
110+53 RT	16				17		53	
111+57 RT	16				17		23	
112+01 RT	16				17			
52+80 RT	24	6	8	19		54		4
TOTAL		12	15	37	51	96	76	7

DRAINAGE QUANTITIES

STRUCTURE NUMBER	LOCATION	24" STORM DRAIN PIPE	GA. STD. 1019A TP E DROP INLET	GA. STD. 1033D CATCH BASIN	GA. STD. 1011A BRICK MANHOLE	CONVERT EXISTING CATCH BASIN TO MANHOLE	ADD'L DEPTH	RIP-RAP, PLAIN, 12 IN.	PLASTIC FILTER FABRIC	GA. STD. 1120 FLARED END SECTION	GA. STD. 1019A TYPE "D" DROP INLET	ADD'L DEPTH
		LF	EA	EA	EA	LF	LF	SY	SY	EA	EA	LF
A-1	109+65 RT	15						5	5	1	1	1
	TOTALS	15						5	5	1	1	1

ROSWELL GEORGIA SINCE 1854

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

SUMMARY QUANTITIES

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 06-001

SUMMARY OF QUANTITIES

MAINTENANCE OF TEMPORARY SILT FENCE, TYPE C	
	418 LF

TEMPORARY SILT FENCE TYPE C	
	836 LF

SOD	
	79 SY

NOTE: LOCATION TO BE DETERMINED BY ENGINEER.

EROSION CONTROL MATS, SLOPES	
	66 SY

CONSTRUCT & REMOVE RIP RAP CHECK DAM	
	1 EACH

MAINTENANCE OF RIP RAP CHECK DAM	
	16 LF

GRASSING			AGR LIME	FERTILIZER MIXED GRADE	FERTILIZER NITROGEN CONTENT	MULCH
ITEM	UNIT	QUANTITY	TON	TON	LB	TON
PERMANENT GRASSING	ACRE	1	3	0	53	3
TEMPORARY GRASSING	ACRE	0.5	1.5	1.0	0	2.0
TOTAL			5.0	1.0	53	5.0

*APPROXIMATELY 1 ACRES OF GRASSING WILL BE REQUIRED (FOR ESTIMATING PURPOSES ONLY). ACRES COMPUTED FROM GRASSING DETAIL DIMENSIONS.

RELOCATE EXISTING SIGN & POLE	
TOTAL	3 EA

ADJUST MANHOLE TO GRADE	
AS REQUIRED	2 EACH

ADJUST WATER VALVE TO GRADE	
AS REQUIRED	8 EACH

RELOCATE FIRE HYDRANT	
AS REQUIRED	1 EACH

ADJUST VERIZON/MCI BOX TO GRADE	
AS REQUIRED	1 EACH

BARRIER FENCE (ORANGE) - 4 FT.	
	447 LF

RECONSTRUCT MISC DRAINAGE STRUCTURE - STA. 109+65	
AS REQUIRED	1 EACH

SUMMARY OF QUANTITIES-STANDARD SIGNS

STATION	*MTL NO.	CODE	SIGNS (TYPE 9 REFLECTIVE SHEETING) TYPE 1 (0.08) SIZE	QTY	SQUARE FEET	TYPE 2 (0.10) SIZE	QTY	SQUARE FEET	SIGNS (TYPE 11 REFLECTIVE SHEETING) TYPE 1 (0.08) SIZE	QTY	SQUARE FEET	TYPE 2 (0.10) SIZE	QTY	SQUARE FEET	SQUARE TUBE POST TYPE 7 LENGTH (FEET)	QTY	TOTAL LENGTH	TYPE 8 LENGTH (FEET)	QTY	TOTAL LENGTH	TYPE 9 LENGTH (FEET)	QTY	TOTAL LENGTH	BREAKAWAY SIGN SUPPORT EACH
OLD ROSWELL RD																								
107+40	1	R-SPEC	30 x 36	1	7.50																			
108+00	2	R-SPEC	30 x 36	1	7.50																			
TOTALS					15.00																			

THERMOPLASTIC PAVEMENT MARKING ARROWS		
DESCRIPTION	UNIT	QUANTITY
TYPE 2	EA	7
TYPE 3	EA	2

NOTE: SEE PLANS FOR LOCATION.

THERMOPLASTIC SOLID TRAFFIC STRIPE		
DESCRIPTION	UNIT	QUANTITY
5" SOLID WHITE	LF	2601
5" SOLID YELLOW	LF	1496
5" SKIP WHITE	LF	452
24" SOLID WHITE	LF	116
8" SOLID WHITE	LF	1185

THERMOPLASTIC TRAFFIC STRIPING		
DESCRIPTION	UNIT	QUANTITY
WHITE	SY	139
YELLOW	SY	344

REMOVE EXISTING PVMT MARKINGS		
DESCRIPTION	UNIT	QUANTITY
5" SOLID WHITE	LF	273
5" SKIP WHITE	GLF	161
OTHER MARKINGS	EA	2

ROSWELL GEORGIA SINCE 1854

REVISION DATES

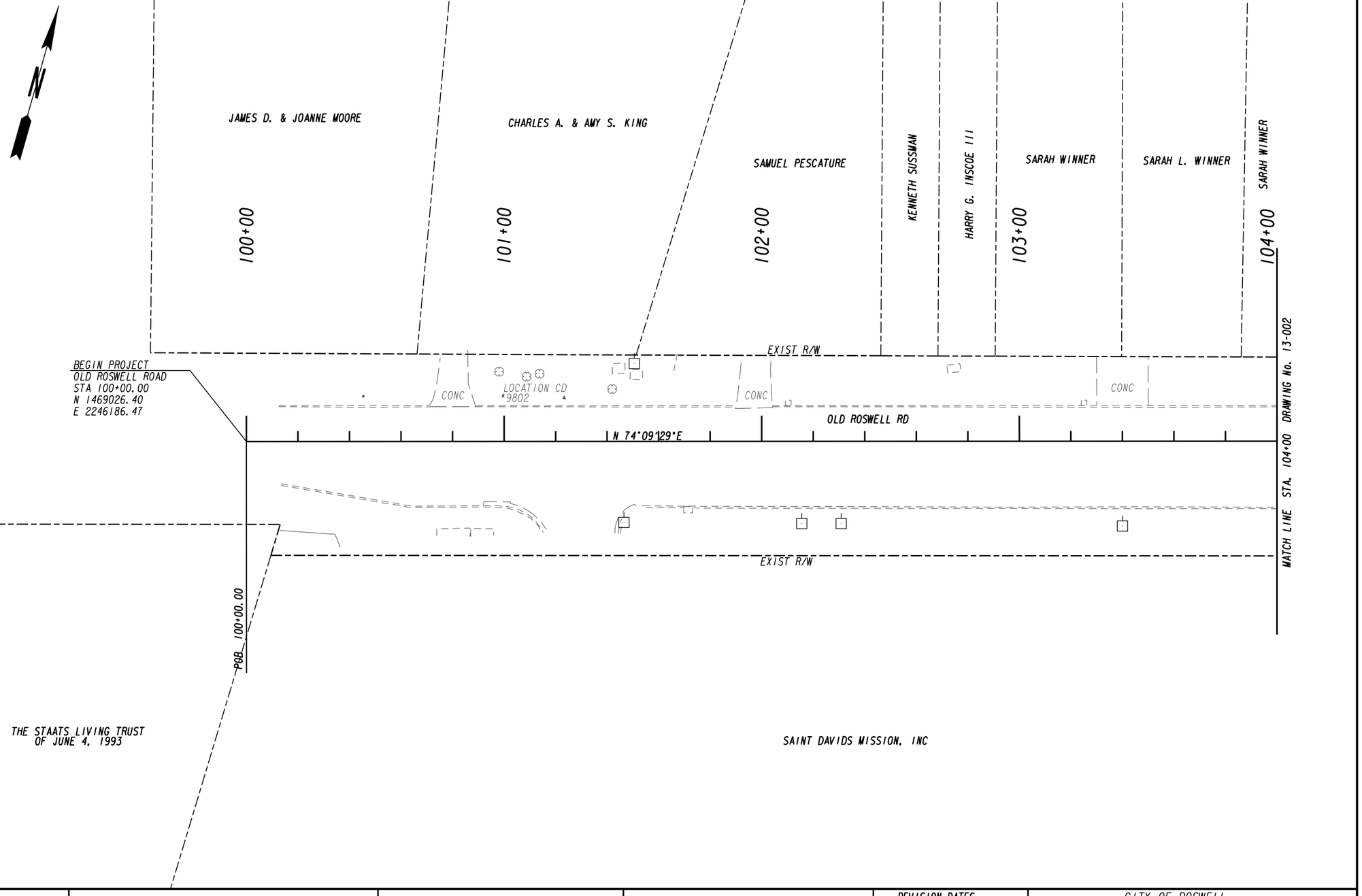
CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

SUMMARY QUANTITIES

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 06-002

4/25/2016 9:23:08 AM csample	GPLOT-V8 gplotborder-V81-P0.tbl	0090612_13-001.dgn	STATE GA	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



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

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

MAINLINE PLAN

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 13-001

4/27/2012 GPLN

4/27/2016	3:50:29 PM	GPLOT-V8	0090612_13-002.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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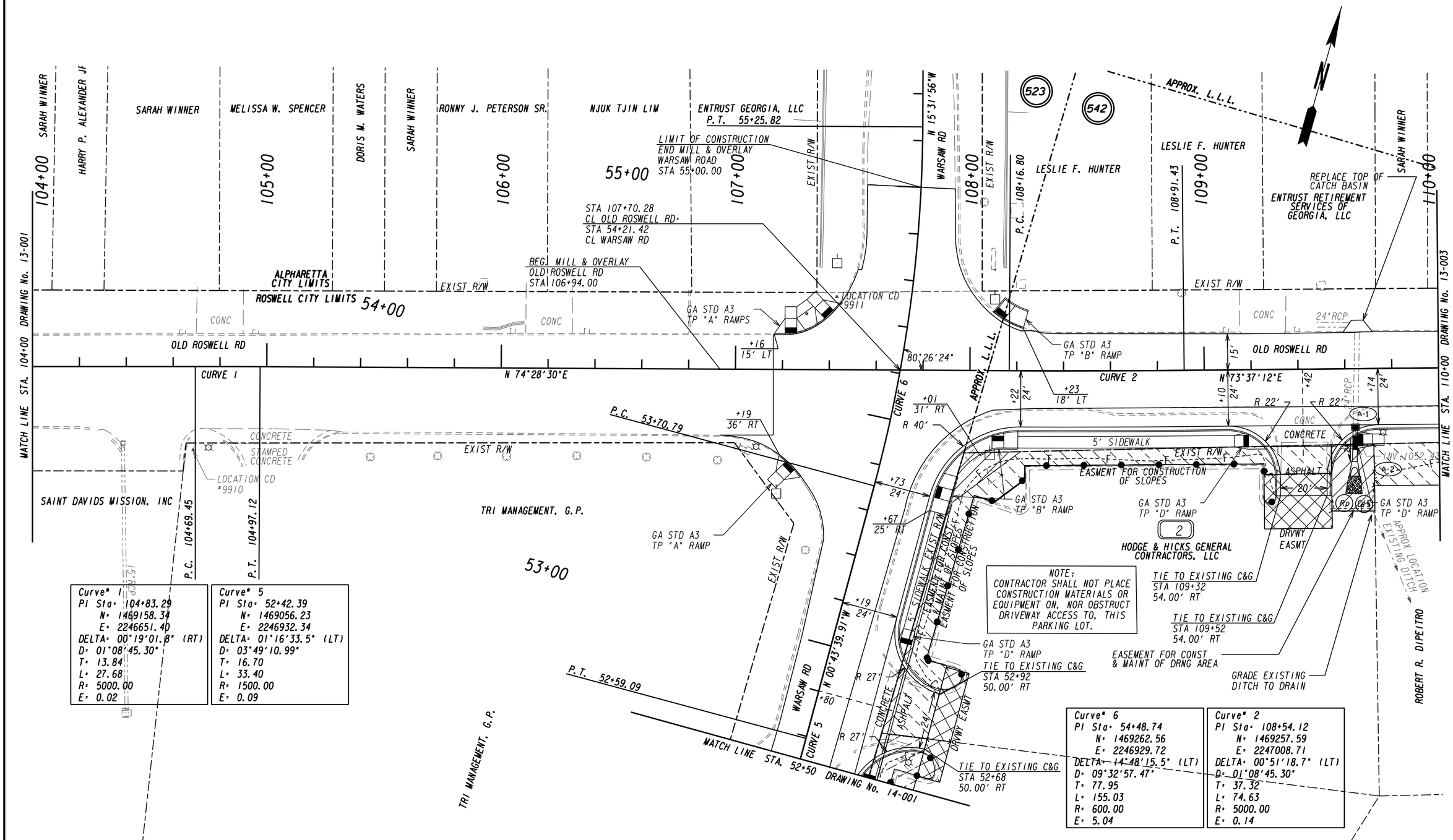


Curve* 1
PI Sta* 104+83.29
N* 1469158.34
E* 2246651.40
DELTA* 00°19'01.8" (RT)
D* 01°08'45.30"
T* 13.84
L* 27.68
R* 5000.00
E* 0.02

Curve* 5
PI Sta* 52+42.39
N* 1469056.23
E* 2246932.34
DELTA* 01°16'33.5" (LT)
D* 03°49'10.99"
T* 16.70
L* 33.40
R* 1500.00
E* 0.09

Curve* 6
PI Sta* 54+48.74
N* 1469262.56
E* 2246929.72
DELTA* 14°48'15.5" (LT)
D* 09°32'57.47"
T* 77.95
L* 155.03
R* 600.00
E* 5.04

Curve* 2
PI Sta* 108+54.12
N* 1469257.59
E* 2247008.71
DELTA* 00°51'18.7" (LT)
D* 01°08'45.30"
T* 37.32
L* 74.63
R* 5000.00
E* 0.14

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

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES		

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

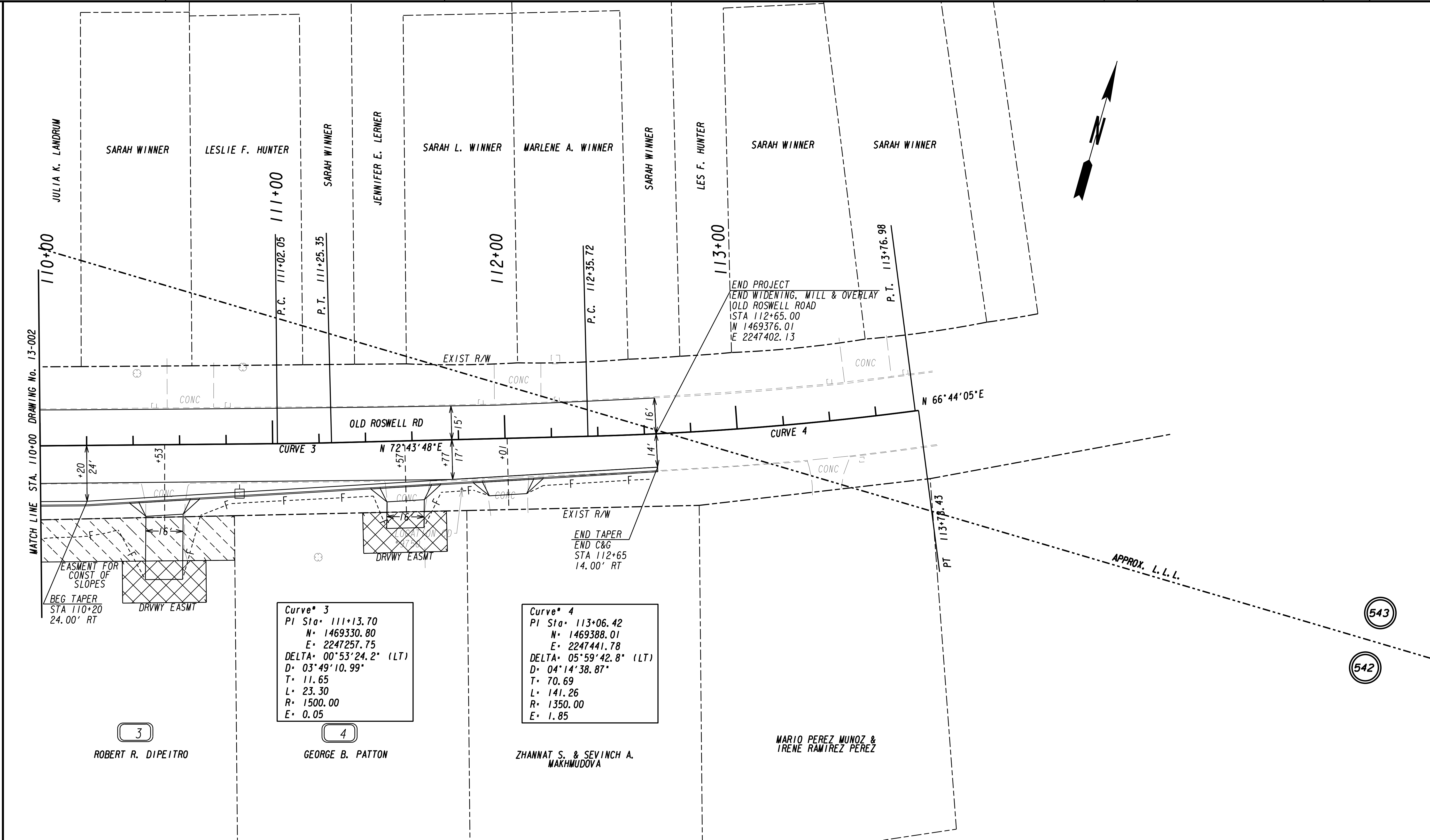
MAINLINE PLAN

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 13-002

4/27/2012 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			


JULIA K. LANDRUM
SARAH WINNER
LESLIE F. HUNTER
SARAH WINNER
JENNIFER E. LERNER
SARAH L. WINNER
MARLENE A. WINNER
SARAH WINNER
LES F. HUNTER
SARAH WINNER
SARAH WINNER
N
110+00
111+00
112+00
113+00
P.C. 111+02.05
P.T. 111+25.35
P.C. 112+35.72
P.T. 113+76.98
END PROJECT
END WIDENING, MILL & OVERLAY
OLD ROSWELL ROAD
STA 112+65.00
N 1469376.01
E 2247402.13
EXIST R/W
CONC
OLD ROSWELL RD
CURVE 3
N 72°43'48"E
CURVE 4
N 66°44'05"E
15'
16'
17'
14'
24'
+20
+53
+57
+77
+01
16'
MATCH LINE STA. 110+00 DRAWING No. 13-002
EASMENT FOR CONST OF SLOPES
BEG TAPER
STA 110+20
24.00' RT
DRVWY EASMT
DRVWY EASMT
LOCATION OF WATER
END TAPER
END C&G
STA 112+65
14.00' RT
PT 113+78.43
APPROX. L.L.L.
543
542
Curve# 3
PI Sta= 111+13.70
N= 1469330.80
E= 2247257.75
DELTA= 00°53'24.2" (LT)
D= 03°49'10.99"
T= 11.65
L= 23.30
R= 1500.00
E= 0.05
Curve# 4
PI Sta= 113+06.42
N= 1469388.01
E= 2247441.78
DELTA= 05°59'42.8" (LT)
D= 04°14'38.87"
T= 70.69
L= 141.26
R= 1350.00
E= 1.85
3
ROBERT R. DIPEITRO
4
GEORGE B. PATTON
ZHANNAT S. & SEVINCH A. MAKHMUDOVA
MARIO PEREZ MUNOZ & IRENE RAMIREZ PEREZ

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

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

MAINLINE PLAN

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 13-003

4/27/2016 3:53:08 PM csample	GPLOT-V8 gplotborder-V81-P0.tbl	0090612_14-001.dgn	STATE GA	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS

FIFTEEN EIGHT PROPERTIES, LLC

TRI MANAGEMENT, G.P.

50+00

51+00

52+00

P.T. 50+00.00

P.C. 52+25.69

EXIST R/W

LOCATION CD #9912

CONCRETE

CONC

CONC

WARSAW RD

13'

13'

N 00°32'53.55"E

CURVE 5

+70

24'

+41

24'

52+50 DRAWING No. 13-002

CONC

ROSWELL CITY LIMITS

ALPHARETTA CITY LIMITS

EXIST R/W

5' SIDEWALK

EASEMENT FOR CONST & MAINT OF SLOPES

GA STD A3

TP 'D' RAMP

EASEMENT FOR CONSTRUCTION OF SLOPES

MATCH LINE STA. 52+50

523

542

LIMIT OF CONSTRUCTION
BEGIN WIDENING, MILL & OVERLAY
WARSAW ROAD
STA 51+20.00

BEGIN GDOT STD 9032B
24" CURB & GUTTER
STA 51+20
13.00' RT

CHAMPI JUAN MANDORTHUPA

1

DAVIS ADAMS JR.

NOTE:
CONTRACTOR SHALL NOT PLACE CONSTRUCTION MATERIALS OR EQUIPMENT ON, NOR OBSTRUCT DRIVEWAY ACCESS TO, THIS PARKING LOT.

Curve" 5
PI Sta" 52+42.39
N" 1469056.23
E" 2246932.34
DELTA" 01°16'33.5" (LT)
D" 03°49'10.99"
T" 16.70
L" 33.40
R" 1500.00
E" 0.09

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

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

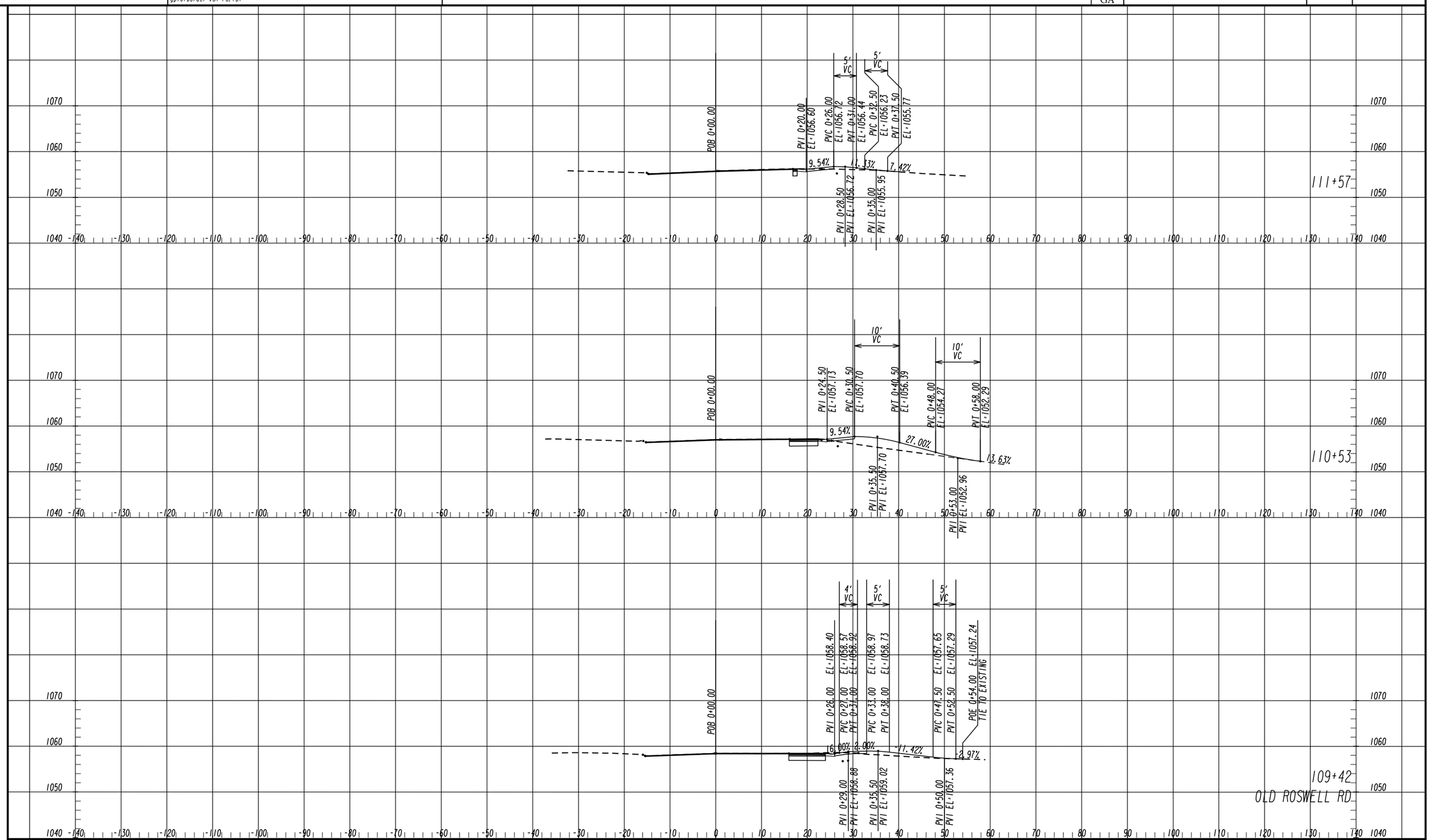
CROSSROAD PLAN

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 14-001

4/27/2012 GPLN

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



ROSWELL GEORGIA SINCE 1854

SCALE

1:10 HORIZONTAL
1:10 VERTICAL

REVISION DATES		

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

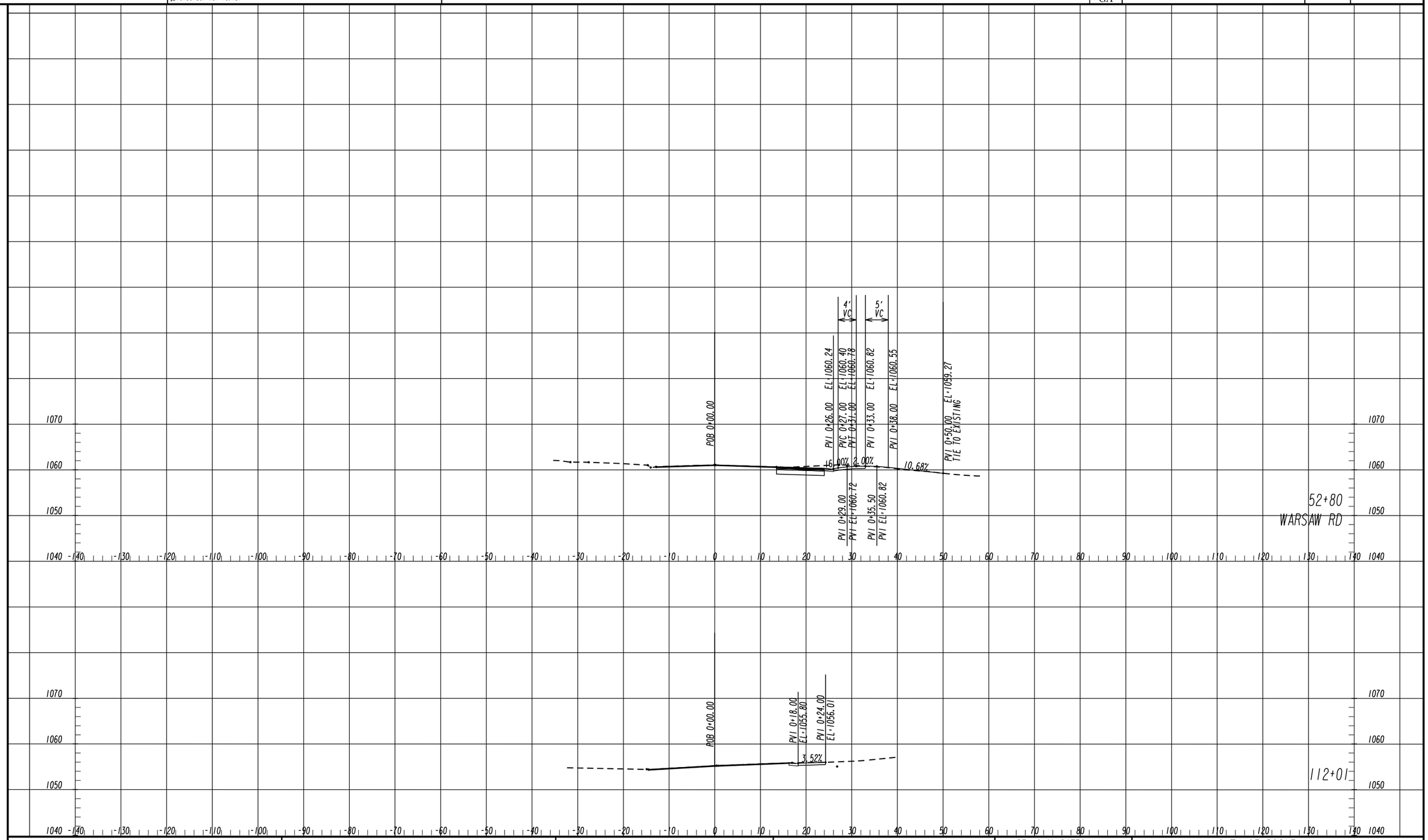
DRIVEWAY PROFILES

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 17-001

11/30/2011 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



ROSWELL GEORGIA SINCE 1854

SCALE

1:10 HORIZONTAL
1:10 VERTICAL

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT

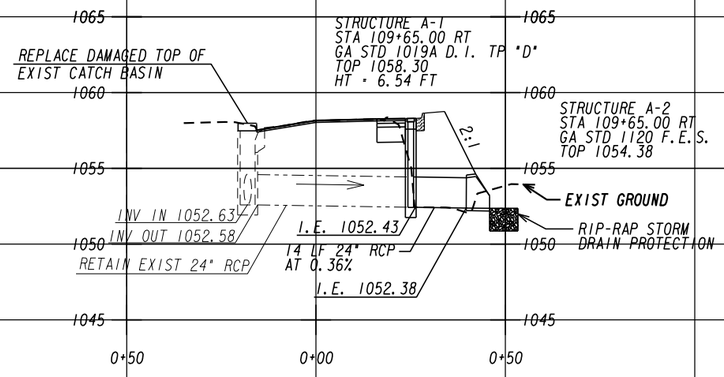
OFFICE: ENGINEERING DESIGN DIVISION

DRIVEWAY PROFILES

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 17-002

11/30/2011 SUxSEW



ROSWELL GEORGIA SINCE 1854

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

REVISION DATES		

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

DRAINAGE PROFILE

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 22-001

5/20/2011 G20EDG

4/25/2016 9:43:48 AM	GPLOT-V8	0090612_23.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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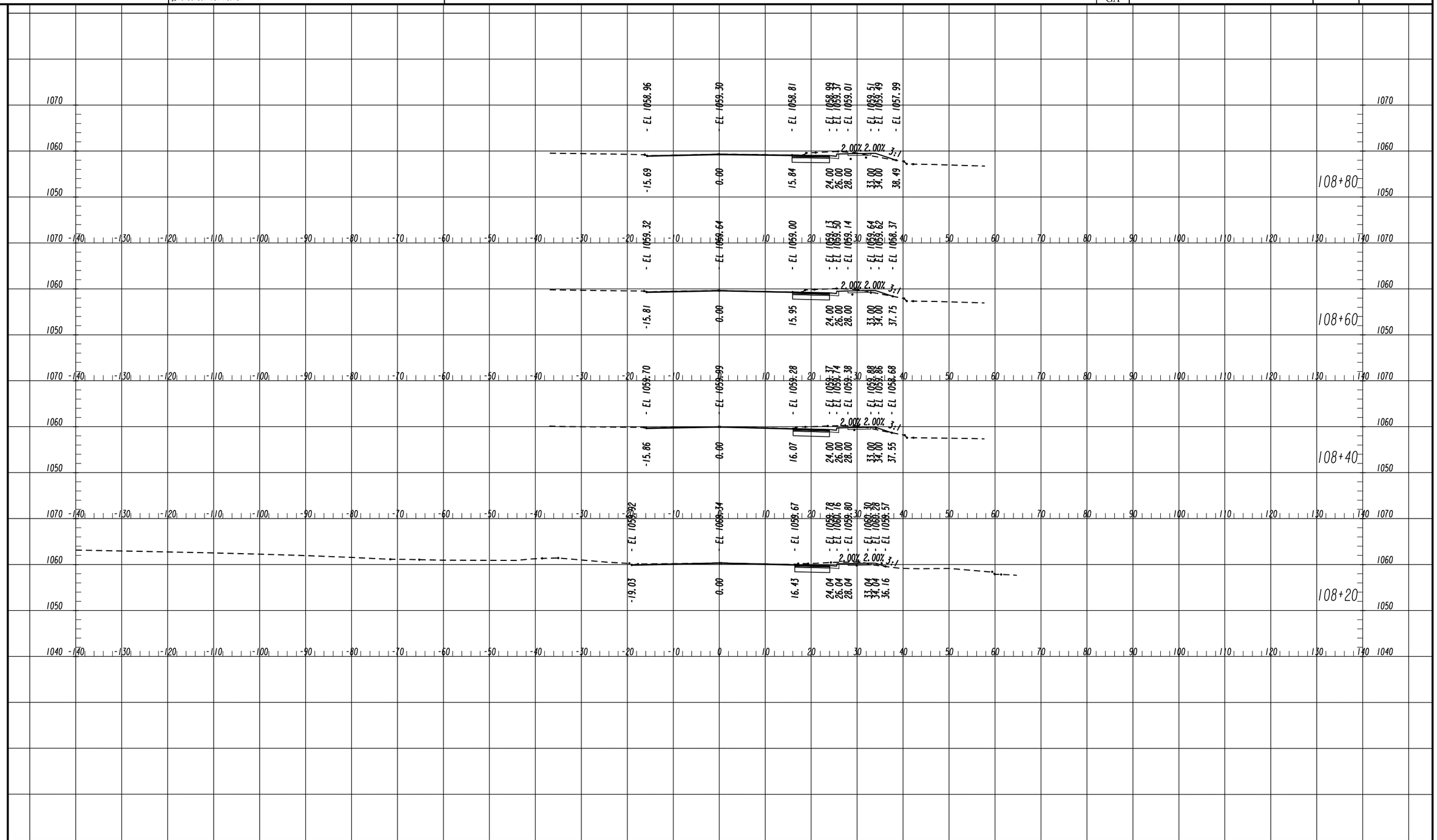


		ROSWELL GEORGIA SINCE 1854	SCALE 1:10 HORIZONTAL 1:10 VERTICAL	REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

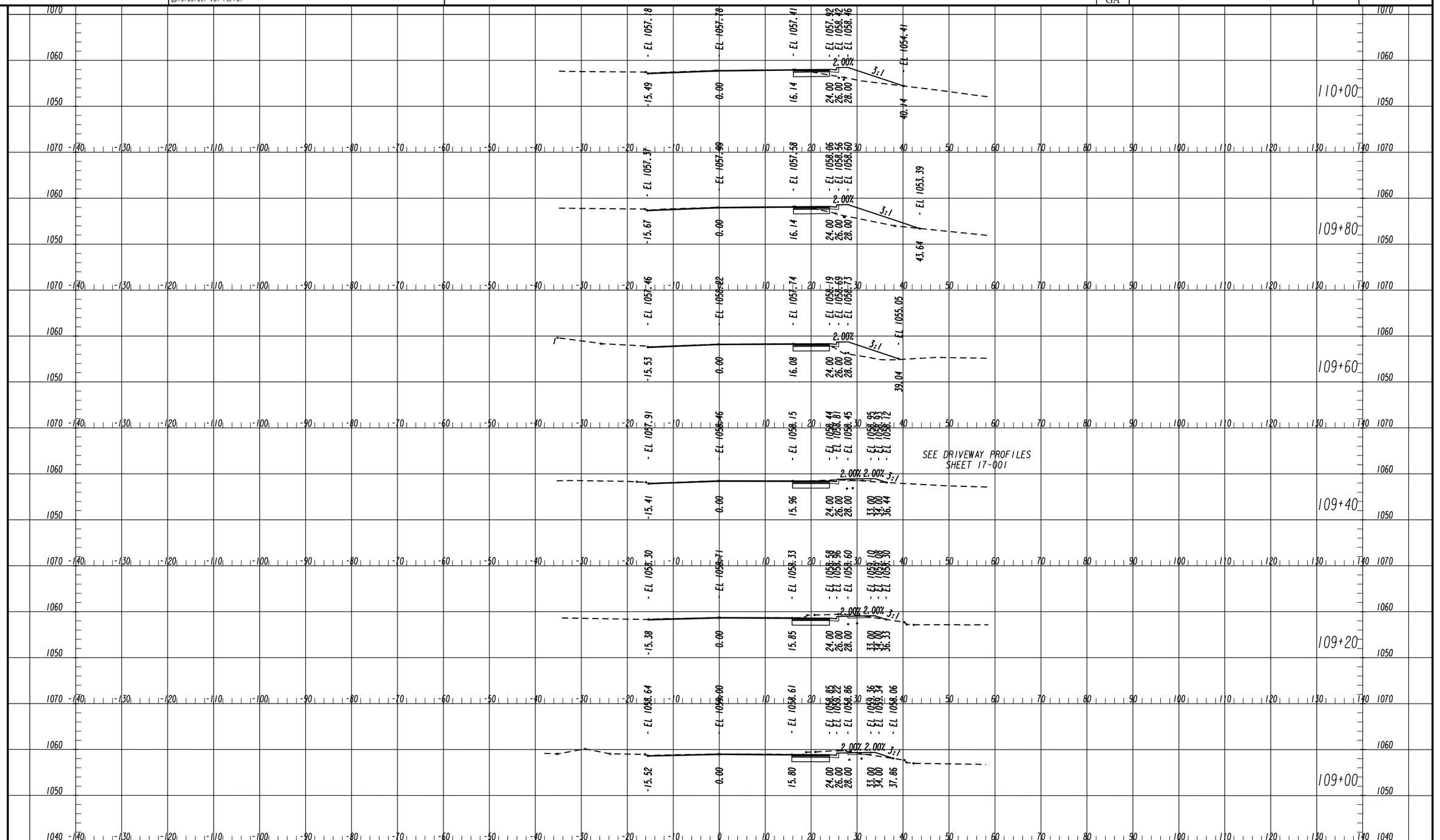
CROSS SECTIONS
OLD ROSWELL RD

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 23-001

11/30/2011 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



ROSWELL GEORGIA SINCE 1854

SCALE

1:10 HORIZONTAL
1:10 VERTICAL

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT

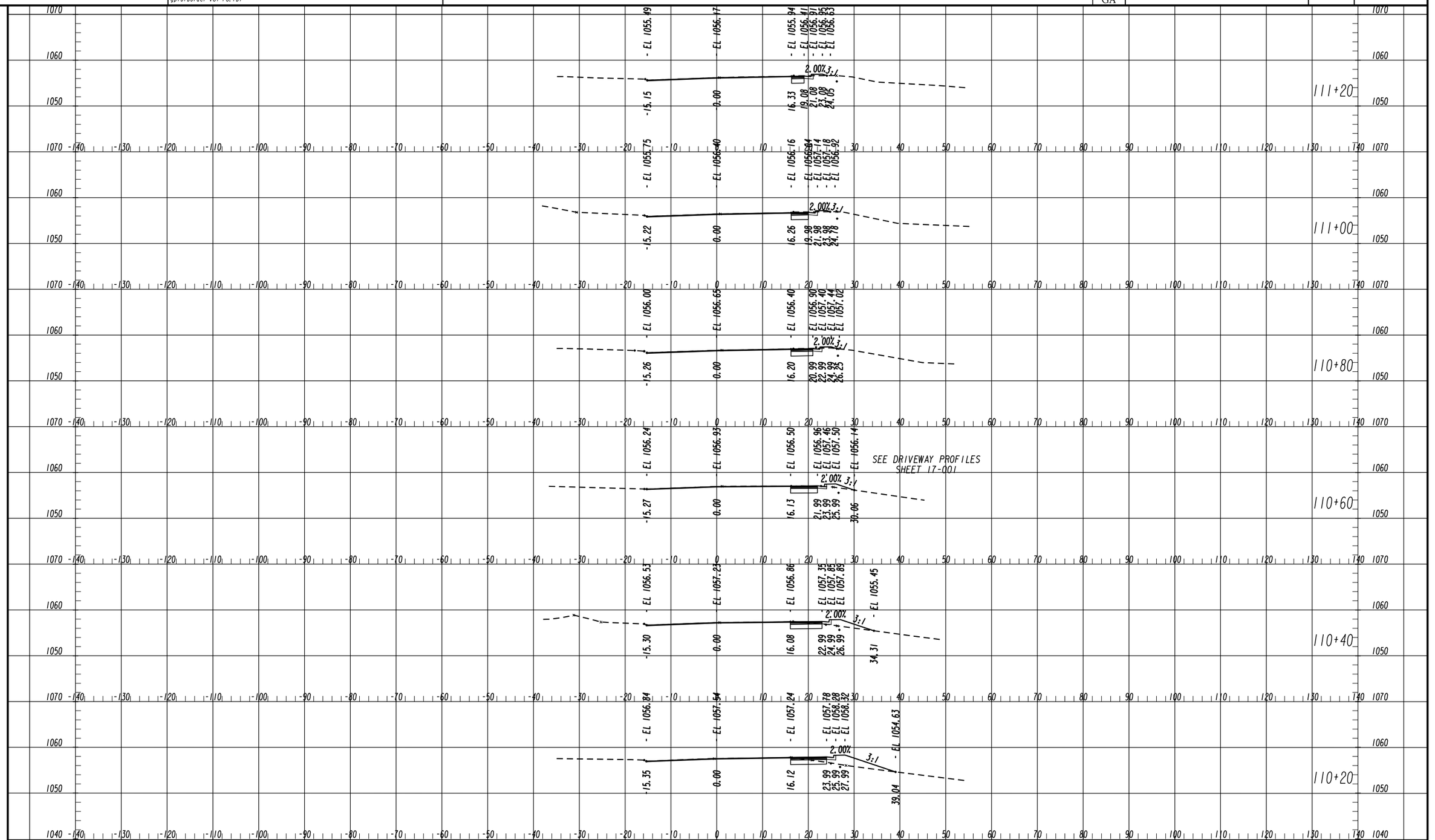
OFFICE: ENGINEERING DESIGN DIVISION

CROSS SECTIONS
OLD ROSWELL RD

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 23-002

11/30/2011 SUxSEW



ROSWELL GEORGIA SINCE 1854

SCALE

1:10 HORIZONTAL
1:10 VERTICAL

REVISION DATES

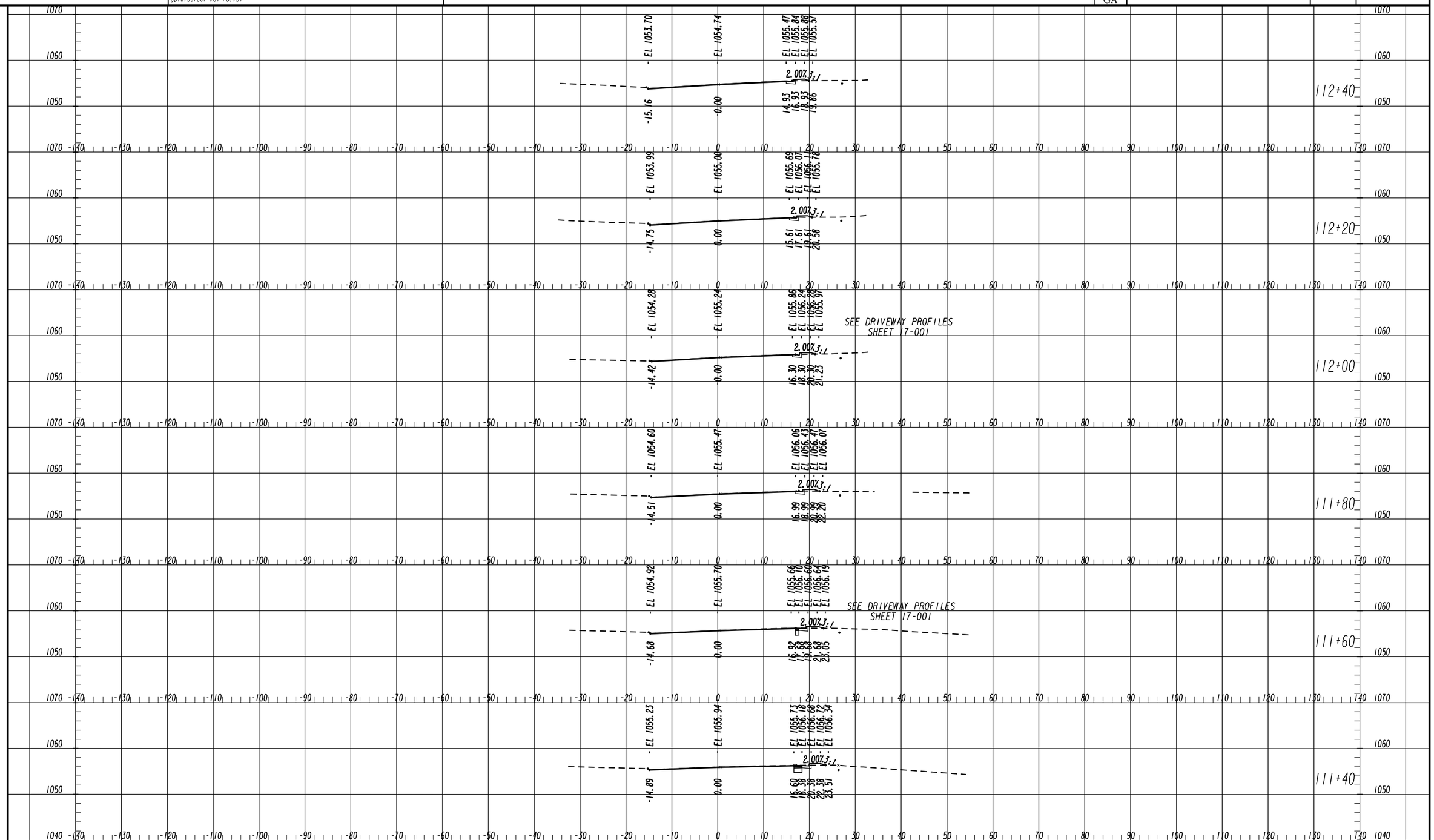
CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

CROSS SECTIONS
OLD ROSWELL RD

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 23-003

11/30/2011 SUXSEW



ROSWELL GEORGIA SINCE 1854

SCALE

1:10 HORIZONTAL
1:10 VERTICAL

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

CROSS SECTIONS
OLD ROSWELL RD

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 23-004

11/30/2011 SUXSEW

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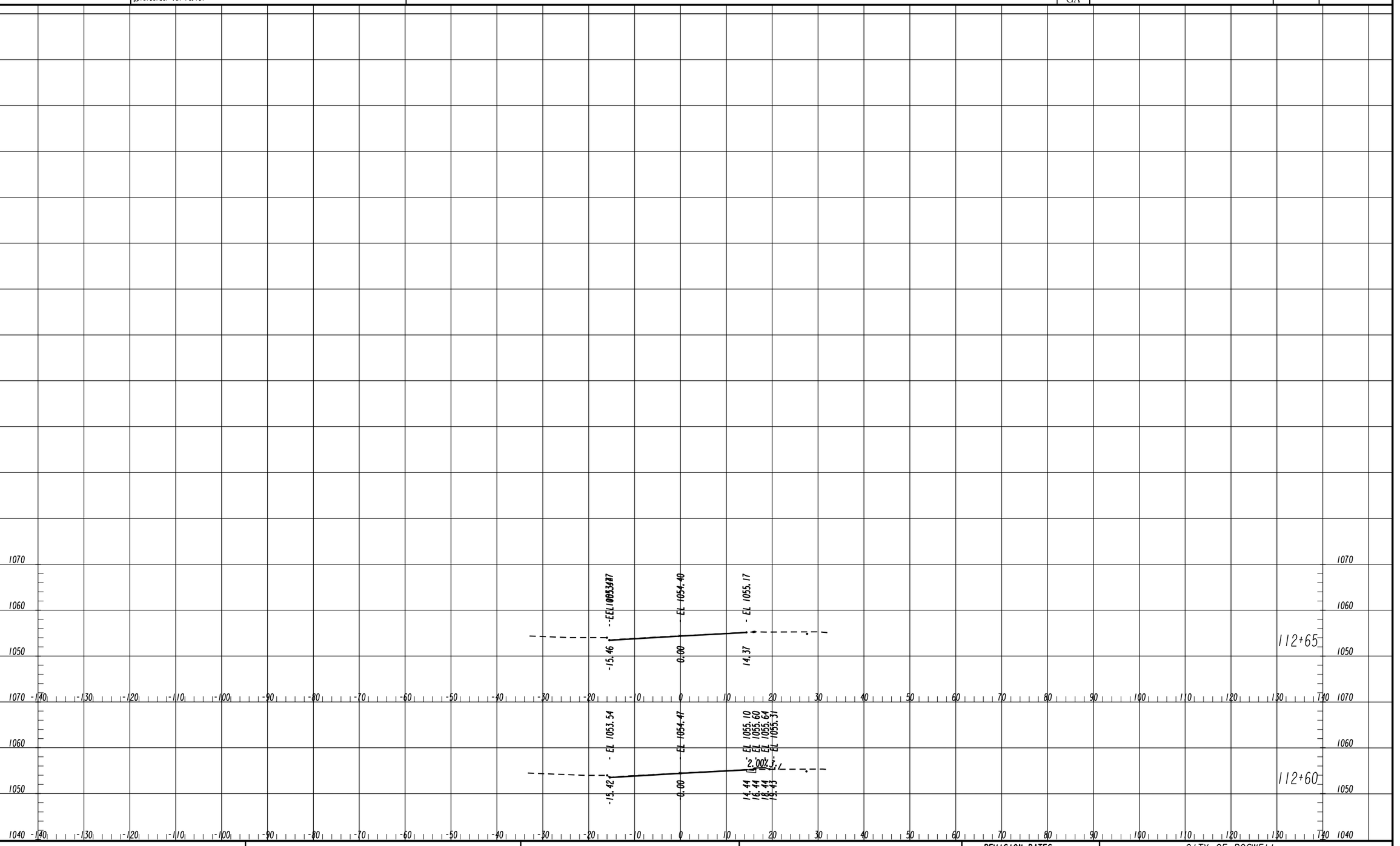
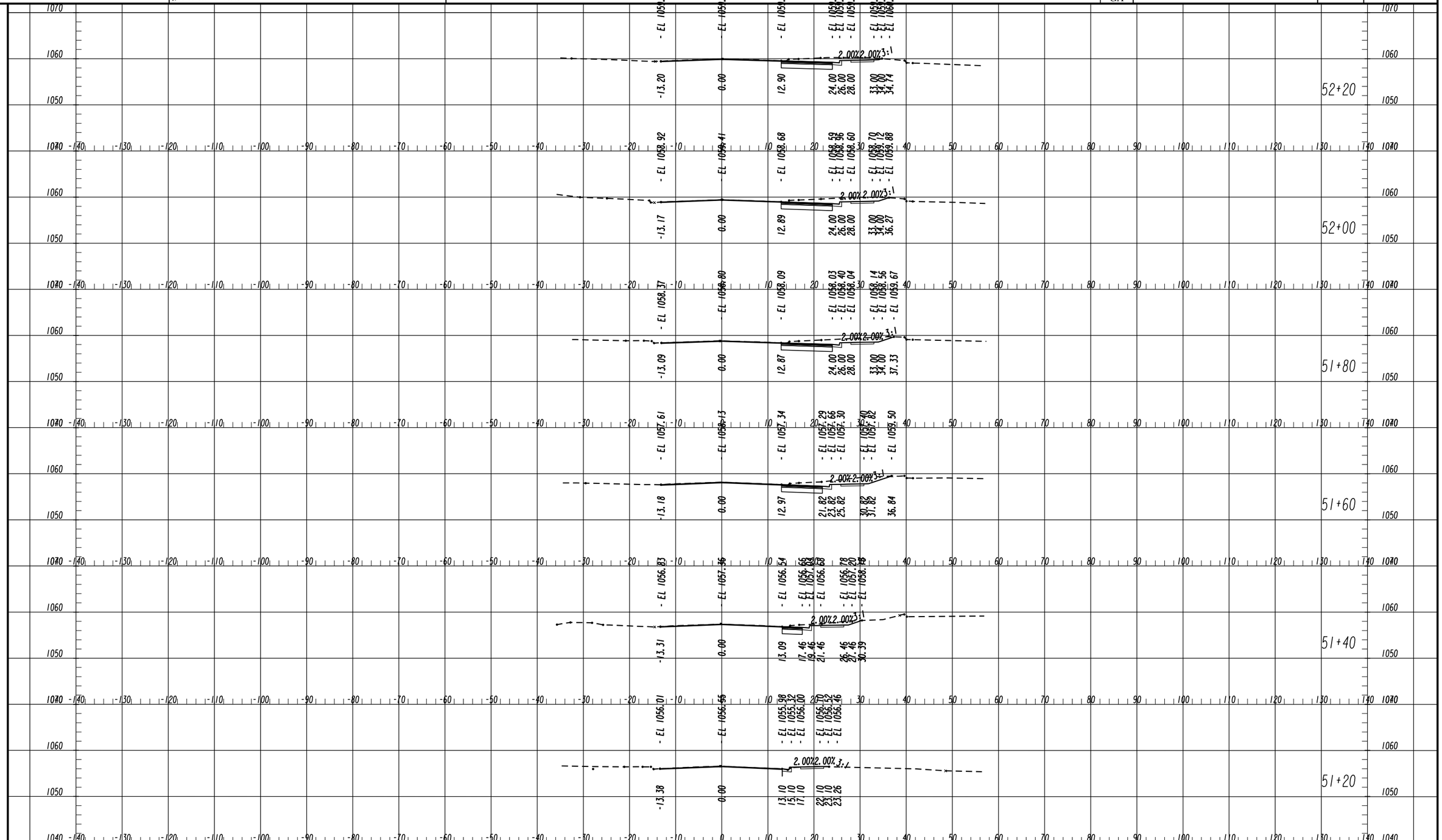


		ROSWELL GEORGIA SINCE 1854	SCALE 1:10 HORIZONTAL 1:10 VERTICAL	REVISION DATES	CITY OF ROSWELL TRANSPORTATION DEPARTMENT OFFICE: ENGINEERING DESIGN DIVISION **CROSS SECTIONS** **OLD ROSWELL RD** OLD ROSWELL RD AT WARSAW RD DRAWING No. 23-005

11/30/2011 SUXSEW

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



ROSWELL GEORGIA SINCE 1854

SCALE

1:10 HORIZONTAL
1:10 VERTICAL

REVISION DATES

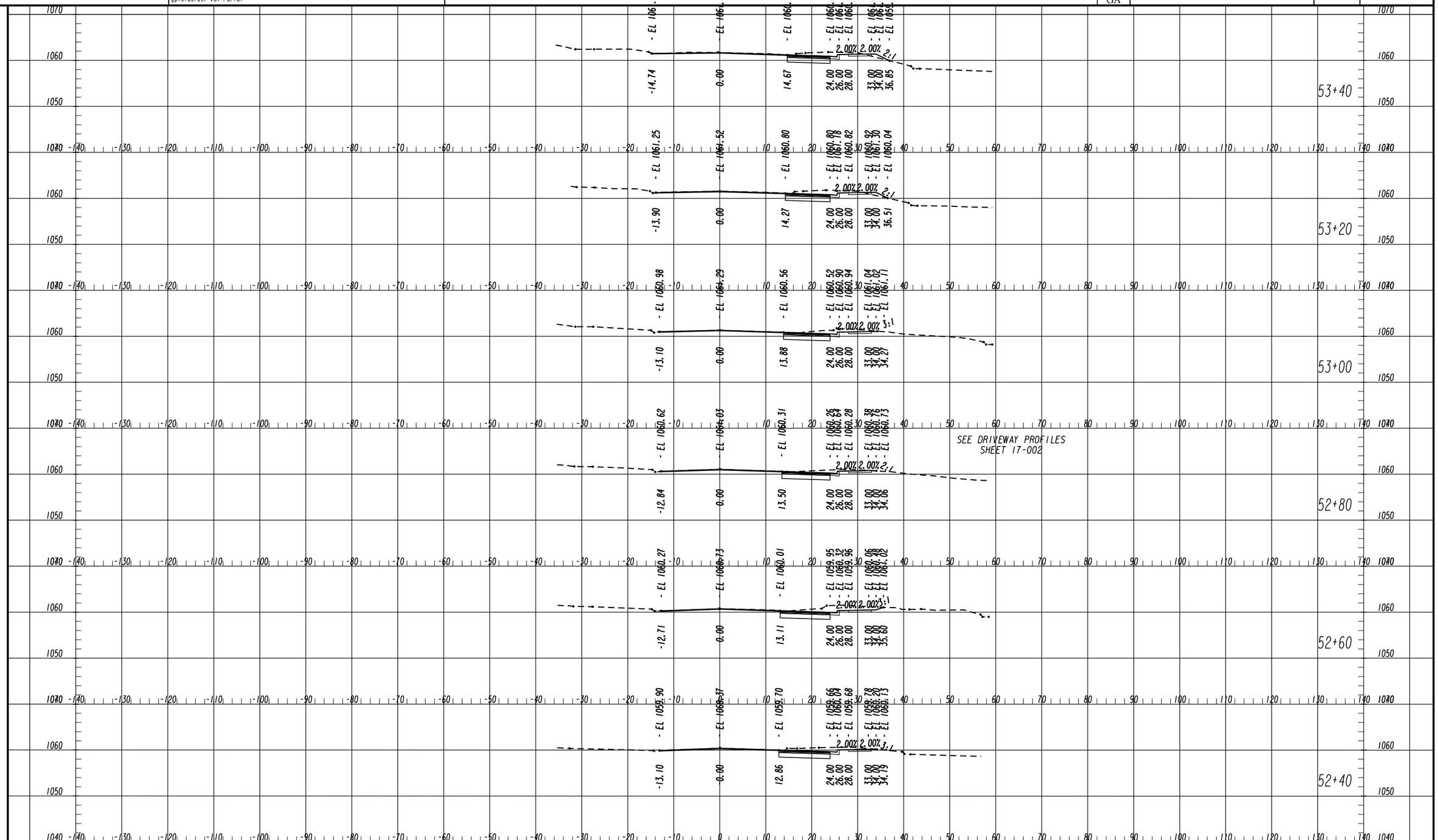
CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

CROSS SECTIONS
WARSAW RD

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 23-006

11/30/2011 SUXSEW



ROSWELL GEORGIA SINCE 1854

SCALE

1:10 HORIZONTAL
1:10 VERTICAL

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

CROSS SECTIONS
WARSAW RD

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 23-007

11/30/2011 SUXSEW

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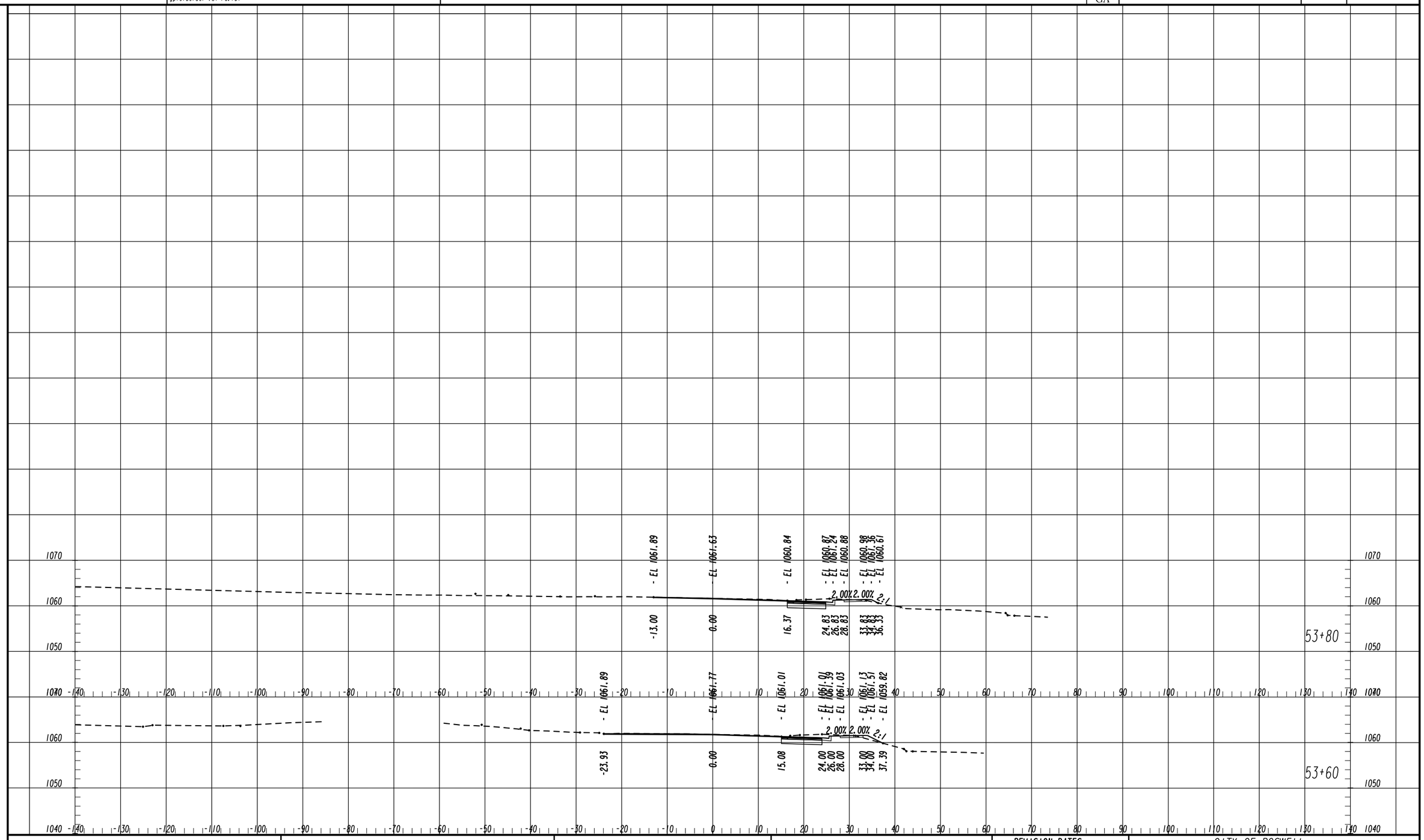


		ROSWELL GEORGIA SINCE 1854	SCALE 1:10 HORIZONTAL 1:10 VERTICAL	REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

CROSS SECTIONS
WARSAW RD

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 23-008

11/30/2011 SUXSEW

UTILITY LINECODES

	EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
OVERHEAD	-W--E--W--E	-W-X-E--W-X-E	-W-E-W-	ELECTRIC
	-W--E-T--W--	-W--E-X--W--	-W-E-T-W-	ELECTRIC/TELECOMMUNICATIONS
	-W--E-TV--W-	-W--E-X-V--W-	-W-E-TV-W-	ELECTRIC/CABLE TV
	-W--E-T-TV---	-W-X-E-T-TV-X-	-W-E-T-TV-	ELECTRIC/TELECOMMUNICATIONS/CABLE TV
	-W--GW--W--	-W-X-GW--W-X	-W-GW-W-	GUY WIRE
	-W--T--W---	-W-X-T--W-X-	-W-T-W-	TELECOMMUNICATIONS
	-W--T-TV--W-	-W--T-X-V--W-	-W-T-TV-W-	TELECOMUNICATIONS/CABLE TV
	-W--TV--W--	-W-X-TV--W-X	-W-TV-W-	CABLE TV
UNDERGROUND	------E-------	--X--E---X--	---E---	ELECTRIC
	------T-------	--X--T---X--	---T---	TELECOMMUNICATIONS
	-----TV-------	--X--TV---X--	---TV---	CABLE TV
	------W-------	--X--W---X--	---W---	WATER
	=====**W=====	=X=**W=X=	=**W=	WATER FOR LABELED PIPE SIZES
	-----NW------	--X--NW---X-	---NW---	NON-POTABLE WATER
	=====**NW=====	=X=**NW=X=	=**NW=	NON-POTABLE WATER FOR LABELED PIPE SIZES
	-----STM------	--X--STM---X-	---STM---	STEAM
	=====**STM=====	=X=**STM=X=	=**STM=	STEAM FOR LABELED PIPE SIZES
	-----→SS------	--X--→SS---X--	---→SS---	SANITARY SEWER WITH FLOW DIRECTION
	=====Σ**SS=====	=X=Σ**SS=X=	=Σ**SS=	SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES
	----→SFM------	--X--→SFM---X-	---→SFM---	SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION
	------G-------	--X--G---X--	---G---	GAS
	=====**G=====	=X=**G=X=	=**G=	GAS FOR LABELED PIPE SIZES
	------P-------	--X--P---X--	---P---	PETROLEUM
	=====**P=====	=X=**P=X=	=**P=	PETROLEUM FOR LABELED PIPE SIZES

UTILITY SYMBOLS

EXISTING	PROPOSED	TEMPORARY		EXISTING	PROPOSED	TEMPORARY	
			UTILITY POLE/GUY POLE				FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)
			LIGHT POLE	BFP	BFP	BFP	BACKFLOW PREVENTER
			GUY ANCHOR	PIV	PIV	PIV	PRESSURE INDICATOR VALVE
			MARKER	ARV	ARV	ARV	AIR RELEASE VALVE
X	X	X	SPLICE BOX	W	W	W	WELL
			CABINET	W	W	W	WATER VAULT
			VENT	W	W	W	WATER VALVE MARKER
E	E	E	ELECTRIC MANHOLE				STAND PIPE
H	H	H	HAND HOLE				CLEANOUT
E	E	E	TRANSFORMER	SS	SS	SS	SANITARY SEWER MANHOLE
E	E	E	ELECTRIC METER	ARV	ARV	ARV	AIR RELEASE VALVE
E	E	E	ELECTRIC BOX	GT	GT	GT	GREASE TRAP
T	T	T	TELECOMMUNICATIONS MANHOLE	S	S	S	SANITARY SEWER FORCE MAIN VALVE
T	T	T	TELECOMMUNICATIONS PEDESTAL	G	G	G	GAS VALVE
SLC	SLC	SLC	SUBCRIBER LOOP CARRIER (aka "SLICK")	G	G	G	GAS METER
			PHONE BOOTH	G	G	G	GAS MANHOLE
			CABLE TV PEDESTAL	GPR	GPR	GPR	GAS PRESSURE REGULATOR
TV	TV	TV	CABLE TV MANHOLE	G	G	G	GAS VAULT
W	W	W	WATER VALVE	GTS	GTS	GTS	GAS TEST STATION
W	W	W	WATER METER	P	P	P	PETROLEUM VALVE
W	W	W	WATER MANHOLE				

ROSWELL GEORGIA SINCE 1854

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT

OFFICE: ENGINEERING DESIGN DIVISION

UTILITY PLANS

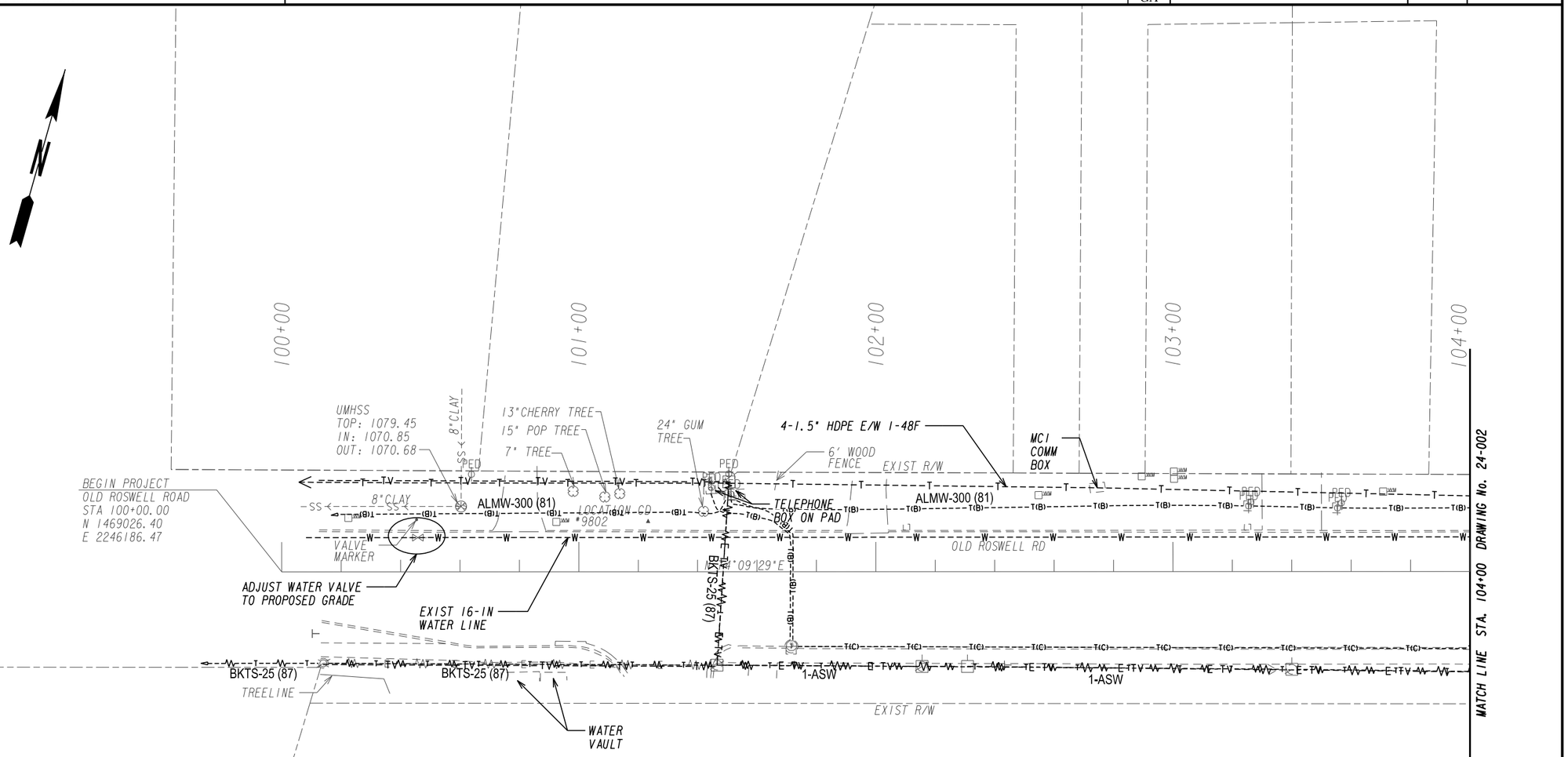
LEGEND

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 24-000

01/26/2015 GPLN

4/25/2016 9:52:06 AM	GPLOT-V8	0090612_24-001.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
csample	gplotborder-V81-PO-utilities-25.tbl		GA			



NOTE:
1. A FIELD VERIFICATION OF HORIZONTAL AND VERTICAL ALIGNMENTS OF EXIST. WATER AND SEWER LINES SHALL BE PERFORMED BEFORE CONSTRUCTION.
2. ALL WATER VALVES, WATER METER BOXES AND SEWER MANHOLES SHALL BE ADJUSTED TO THE PROPOSED GRADE.

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

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

UTILITY PLANS

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 24-001

4/27/2012 GPLN

MATCH LINE STA. 104+00 DRAWING No. 24-001

MATCH LINE STA. 110+00 DRAWING No. 24-003

MATCH LINE STA. 52+50 DRAWING No. 24-004

104+00 105+00 106+00 107+00 108+00 109+00 110+00 55+00 54+00 53+00

APPROX. L.L.L.

EXIST 12-IN WATER LINE

2-1.5" HDPE E/W 1-24F

AT&T BOX ON PAD

LIMIT OF CONSTRUCTION
END MILL & OVERLAY
WARSAW ROAD
STA 55+00.00

STA 107+70.28
CL OLD ROSWELL RD
STA 54+21.42
CL WARSAW RD

UMHSS
TOP: 1063.44
IN "A": 1054.69
IN "B": 1055.30
OUT: 1054.67

UMHSS
TOP: 1061.66
IN "A": 1052.66
IN "B": 1052.96
OUT: 1052.51

DDCB
TOP: 1057.98
IN: 1052.63
OUT: 1052.58

ADJUST SEWER MH TO PROP. GRADE

BKMH-1800 (86)
BKMH-900 (86)
BKMH-900 (86)

TSB

DO NOT DISTURB POWER POLE

E-TRAN

BEG. MILL & OVERLAY
OLD ROSWELL RD
STA 106+94.00

ALPHARETTA CITY LIMITS

ROSWELL CITY LIMITS

EXIST R/W

WARSAW RD

67" OAK TREE

8"PVC

ALMW-300 (81)

ALMW-200 (81)

DO NOT DISTURB FIRE HYDRANT

LOCATION CD "9911"

24"RCP

OLD ROSWELL RD

260-FT

4-1.5" HDPE E/W 1-48F

80°26'24"

N 74°28'30"E

N 73°37'12"E

EXIST 16-IN WATER LINE

UNDERGROUND CABLE MARKER

ADJUST WATER VALVES TO PROPOSED GRADE

SR-3492MT-120 (01)

ATT&T TO ADJUST MANHOLE COLLAR & ADJUST UMHSS PLACE CURB-STYLE TO GRADE MANHOLE LID

ALMW-300 (78)

TSB

BKMA-50 (07)

LOCATION CD "9910"

DDI
TOP:1066.78
OUT:1062.45

20"PEAR TREE
20"PEAR TREE
14"PEAR TREE
16"PEAR TREE
15"PEAR TREE
20"PEAR TREE

TSB ON PAD

DOT MARKER "CALL BEFORE YOU DIG"

POLE TO BE RELOCATED BY GA POWER

CROSSWALK SIGNAL

6-1.5" HDPE E/W 1-288F & 1-432F

DO NOT DISTURB POWER POLE

VERIZON- (ADJUST TO MCI BOX GRADE)
UNDERGROUND CABLE MARKER

CROSSWALK SIGNAL

UMHSS
TOP: 1059.19
OUT: 1048.92
(ABANDONED)

AT&T TO REMOVE PEDESTAL

POLE TO BE RELOCATED BY GA POWER - AT&T TO ATTACH TO NEW GPC POLE LOCATION

APPROX LOCATION EXISTING DITCH

EXIST. 8-IN. WATER LINE

ANTW-200 (96)

6-1.5"HDPE E/W 1-288F & 1-432F

ADJUST WATER VALVES TO PROPOSED GRADE

AFMW-100 (85)

WARSAW RD

NOTE:
1. A FIELD VERIFICATION OF HORIZONTAL AND VERTICAL ALIGNMENTS OF EXIST. WATER AND SEWER LINES SHALL BE PERFORMED BEFORE CONSTRUCTION.
2. ALL WATER VALVES, WATER METER BOXES AND SEWER MANHOLES SHALL BE ADJUSTED TO THE PROPOSED GRADE.

NOTE:
1. CONTRACTOR SHALL RELOCATE EXISTING IRRIGATION SYSTEM DURING CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER BEFORE MAKING ANY REVISIONS TO THIS PLAN.

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

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

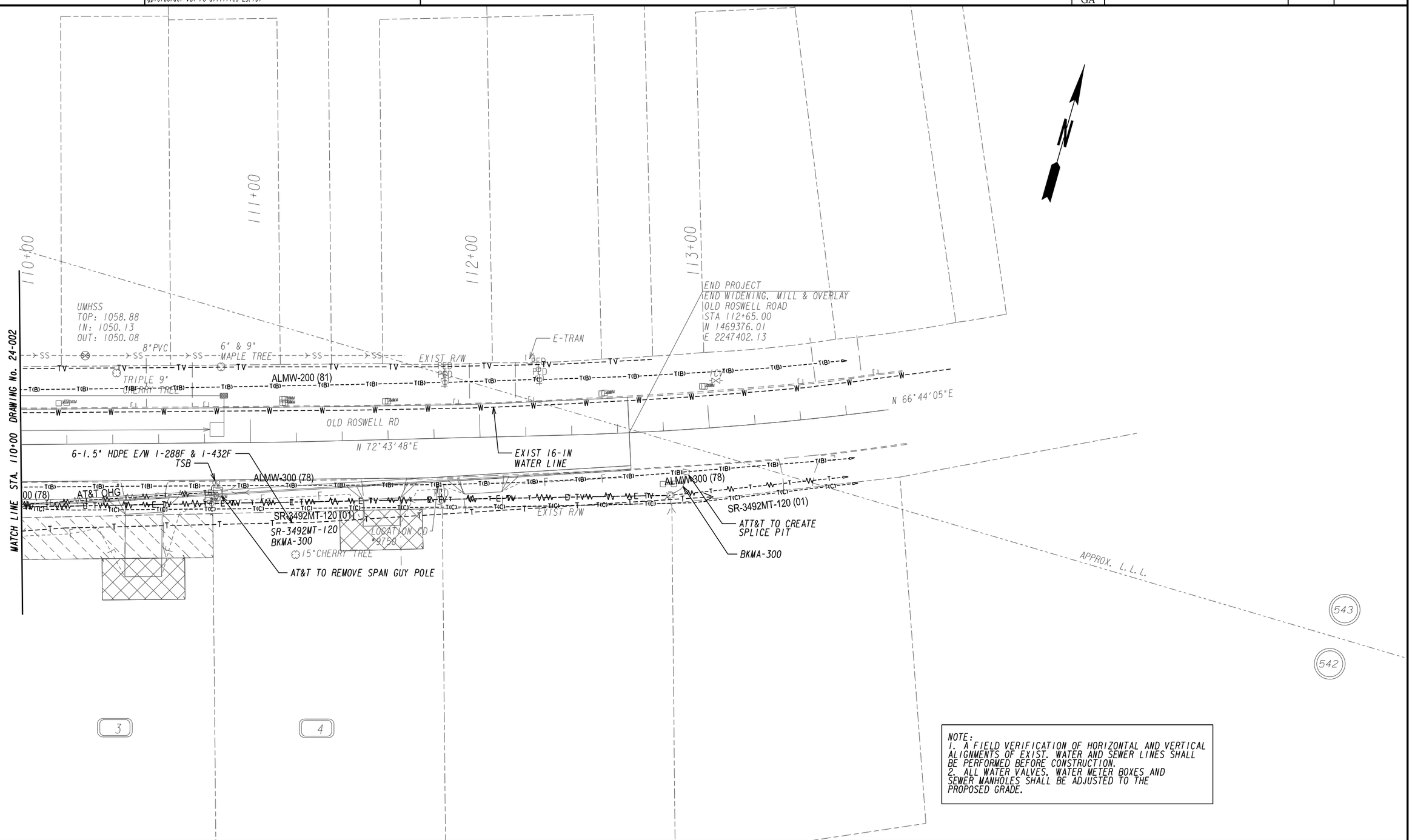
UTILITY PLANS

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 24-002

4/27/2012 GPLN

4/25/2016 9:54:35 AM csample	GPLOT-V8 gplotborder-V81-PO-utilities-25.tbl	0090612_24-003.dgn	STATE GA	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



NOTE:
1. A FIELD VERIFICATION OF HORIZONTAL AND VERTICAL ALIGNMENTS OF EXIST. WATER AND SEWER LINES SHALL BE PERFORMED BEFORE CONSTRUCTION.
2. ALL WATER VALVES, WATER METER BOXES AND SEWER MANHOLES SHALL BE ADJUSTED TO THE PROPOSED GRADE.

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

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

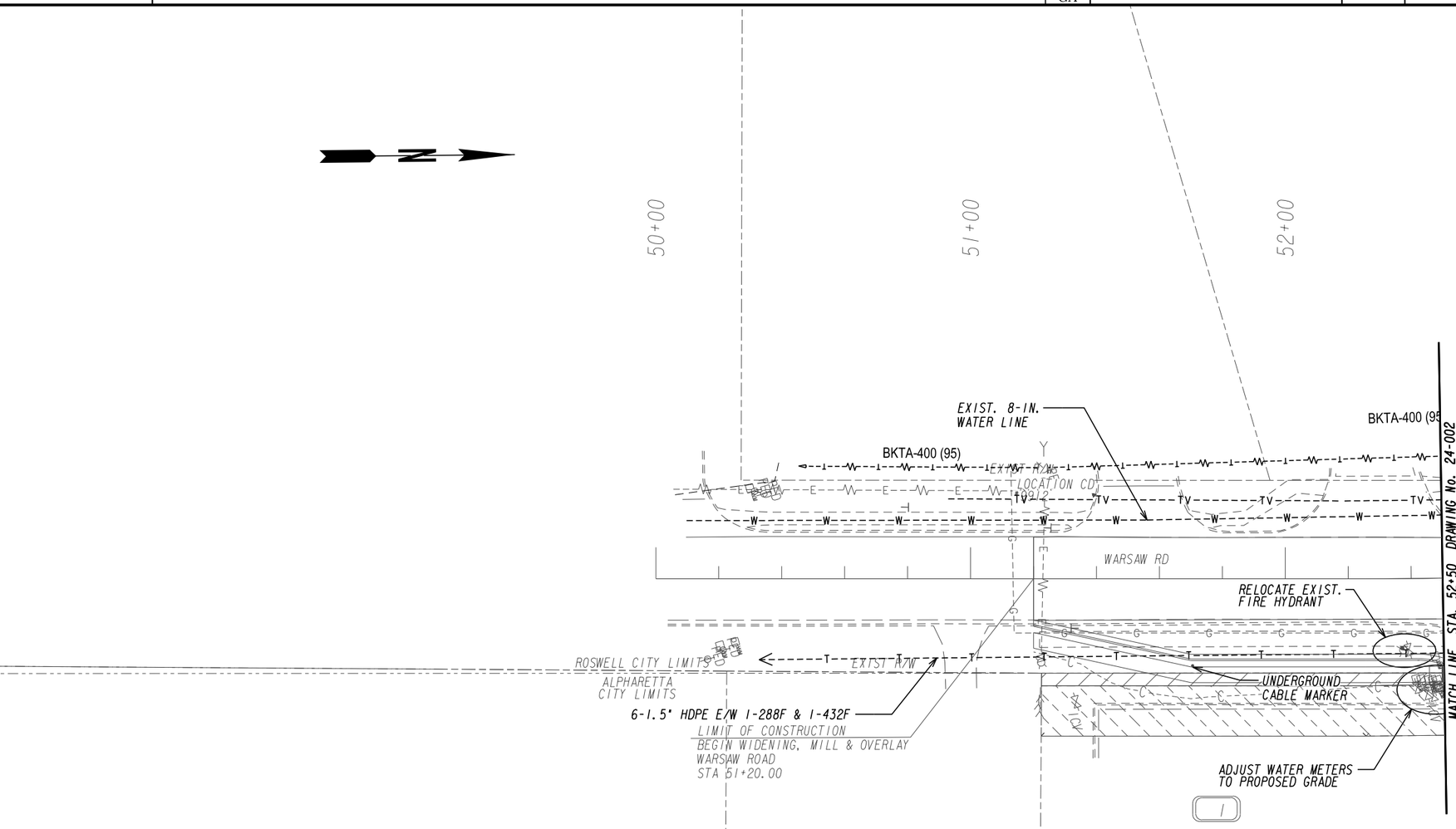
CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

UTILITY PLANS

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 24-003

4/27/2012 GPLN



NOTE:
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2. ALL WATER VALVES, WATER METER BOXES AND SEWER MANHOLES SHALL BE ADJUSTED TO THE PROPOSED GRADE.

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
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END LIMIT OF ACCESS.....ELA
LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

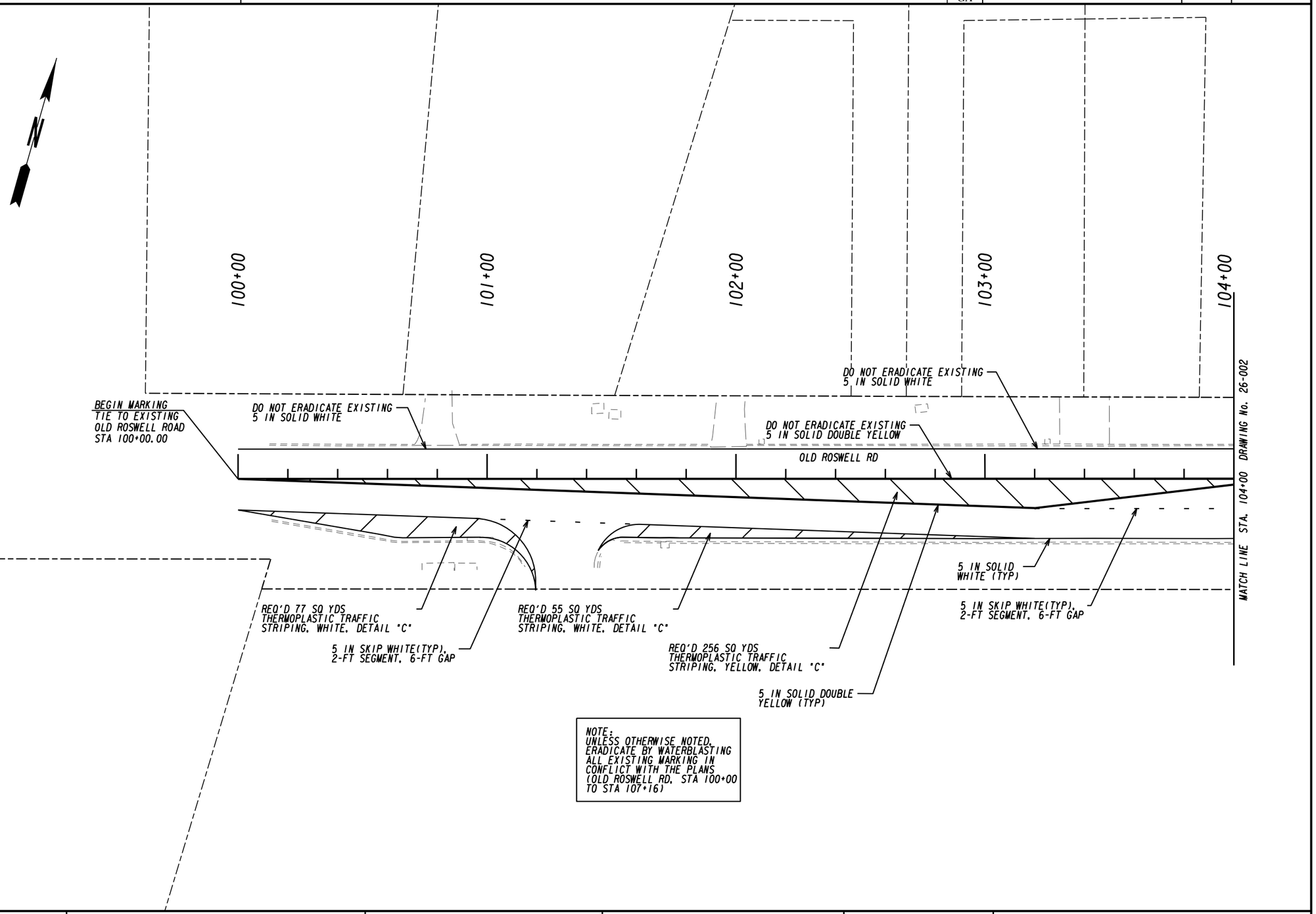
CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

UTILITY PLANS

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 24-004

4/27/2012 GPLN



NOTE:
UNLESS OTHERWISE NOTED,
ERADICATE BY WATERBLASTING
ALL EXISTING MARKING IN
CONFLICT WITH THE PLANS
(OLD ROSWELL RD, STA 100+00
TO STA 107+16)

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

ROSWELL
GEORGIA
SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES		

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

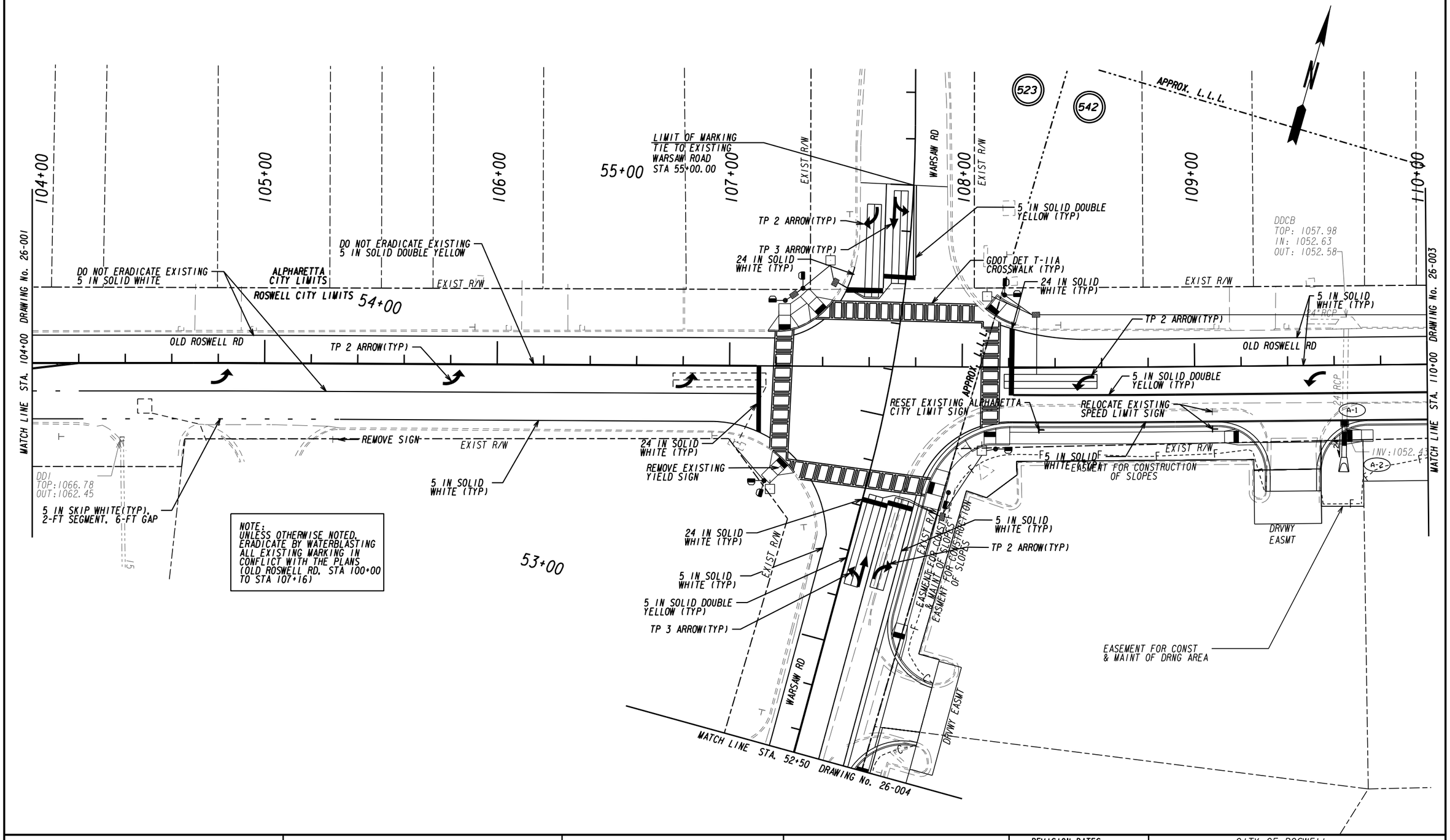
SIGNING AND MARKING PLANS

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 26-001

4/27/2012 GPLN

4/25/2016 9:59:12 AM csample	GPLOT-V8 gplotborder-V81-P0.tbl	0090612_26-002.dgn	STATE GA	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



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

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

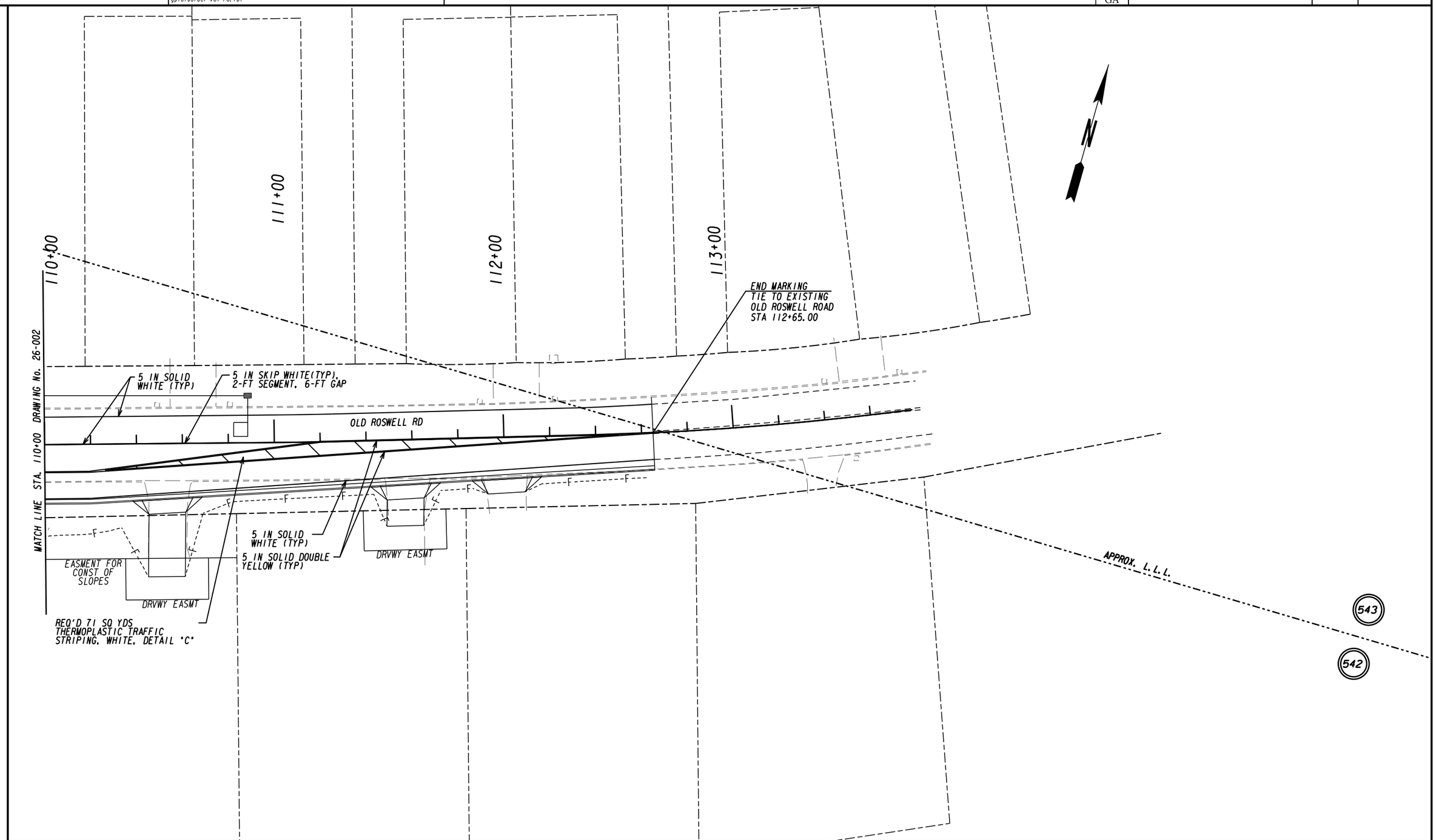
SIGNING AND MARKING PLANS

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 26-002

4/27/2012 GPLN

4/25/2016 10:00:09 AM	GPLOT-V8	0090612_26-003.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
csample	gplotborder-V81-P0.tbl		GA			



PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
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LIMIT OF ACCESS
REQ'D R/W & LIMIT OF ACCESS

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

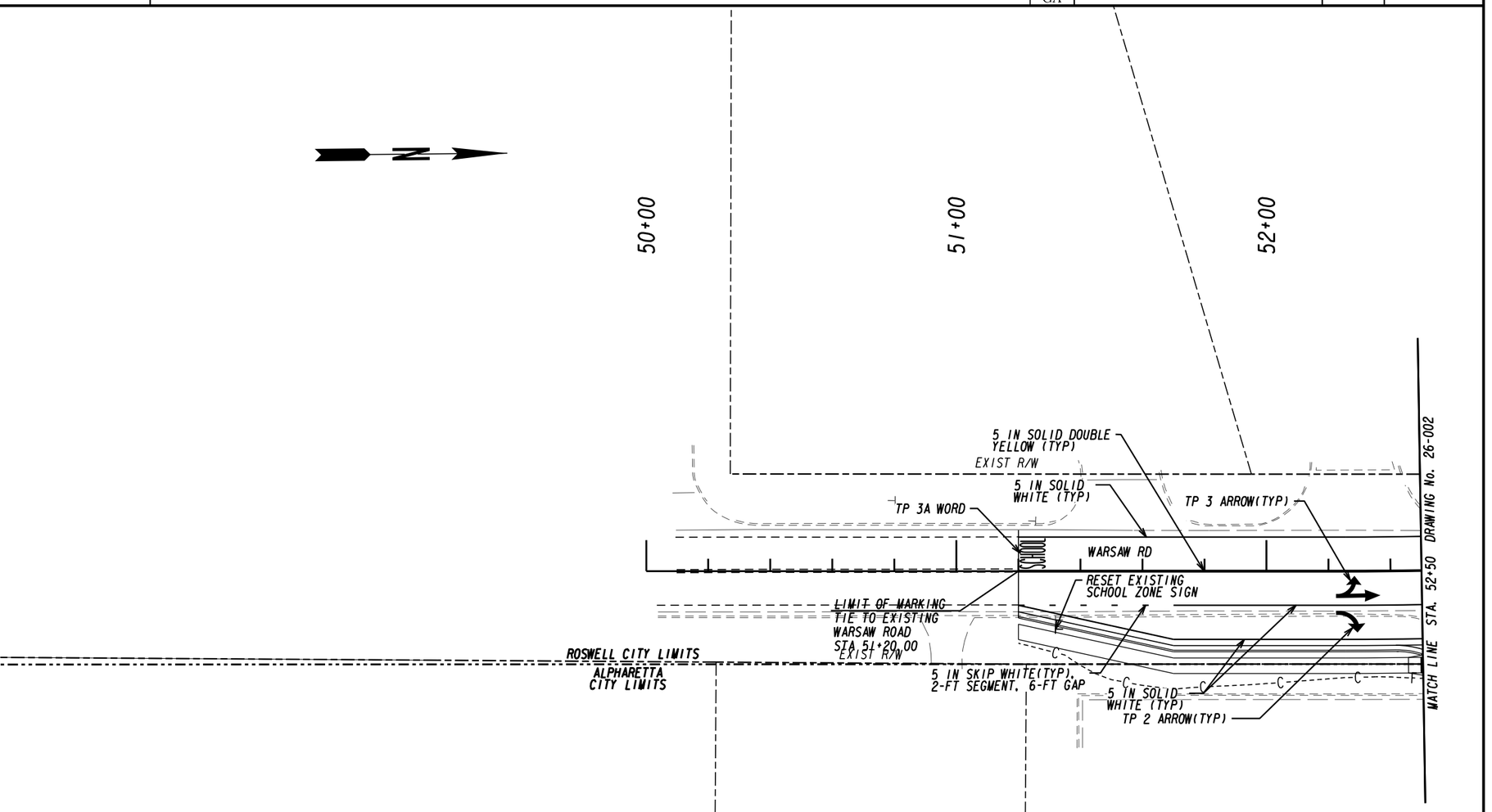
CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

SIGNING AND MARKING PLANS

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 26-003

4/27/2012 GPLN



523

542

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

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

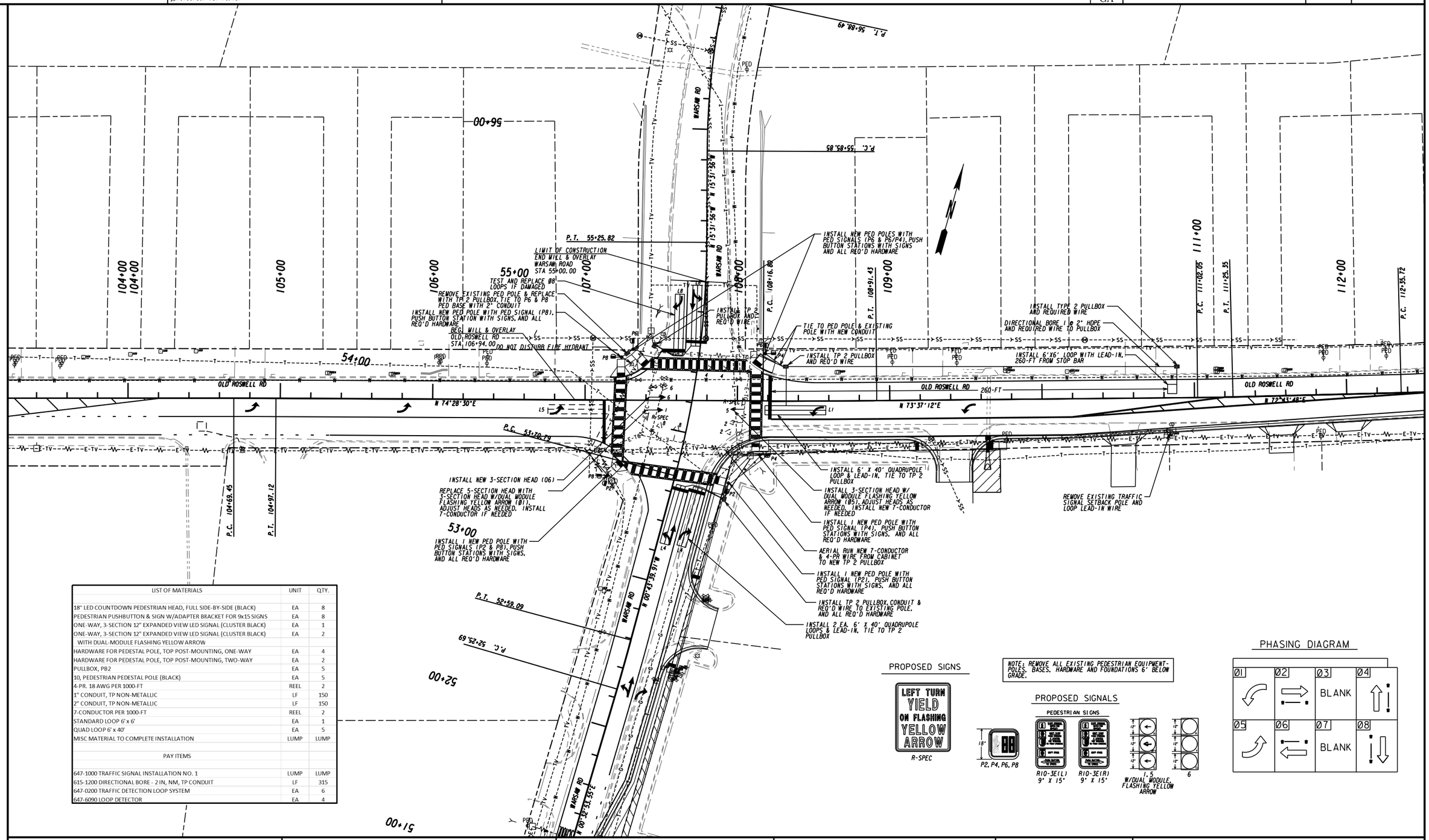
SIGNING AND MARKING PLANS

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 26-004

4/27/2012 GPLN

4/27/2016 4:34:04 PM csample	GPLOT-V8 gplotborder-V81-P0.tbl	0090612_27-001.dgn	STATE GA	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



LIST OF MATERIALS	UNIT	QTY.
18" LED COUNTDOWN PEDESTRIAN HEAD, FULL SIDE-BY-SIDE (BLACK)	EA	8
PEDESTRIAN PUSHBUTTON & SIGN W/ADAPTER BRACKET FOR 9x15 SIGNS	EA	8
ONE-WAY, 3-SECTION 12" EXPANDED VIEW LED SIGNAL (CLUSTER BLACK)	EA	1
ONE-WAY, 3-SECTION 12" EXPANDED VIEW LED SIGNAL (CLUSTER BLACK) WITH DUAL-MODULE FLASHING YELLOW ARROW	EA	2
HARDWARE FOR PEDESTAL POLE, TOP POST-MOUNTING, ONE-WAY	EA	4
HARDWARE FOR PEDESTAL POLE, TOP POST-MOUNTING, TWO-WAY	EA	2
PULLBOX, PB2	EA	5
10, PEDESTRIAN PEDESTAL POLE (BLACK)	EA	5
4-PR. 18 AWG PER 1000-FT	REEL	2
1" CONDUIT, TP NON-METALLIC	LF	150
2" CONDUIT, TP NON-METALLIC	LF	150
7-CONDUCTOR PER 1000-FT	REEL	2
STANDARD LOOP 6'x 6'	EA	1
QUAD LOOP 6' x 40'	EA	5
MISC MATERIAL TO COMPLETE INSTALLATION	LUMP	LUMP
PAY ITEMS		
647-1000 TRAFFIC SIGNAL INSTALLATION NO. 1	LUMP	LUMP
615-1200 DIRECTIONAL BORE - 2 IN, NM, TP CONDUIT	LF	315
647-0200 TRAFFIC DETECTION LOOP SYSTEM	EA	6
647-6090 LOOP DETECTOR	EA	4

PROPOSED SIGNS

R-SPEC

NOTE: REMOVE ALL EXISTING PEDESTRIAN EQUIPMENT-POLES, BASES, HARDWARE AND FOUNDATIONS 6' BELOW GRADE.

PROPOSED SIGNALS

PHASING DIAGRAM

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 30 60 120

REVISION DATES		

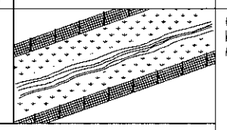
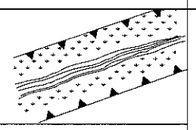
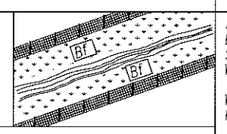
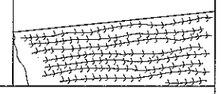
CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

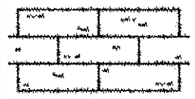
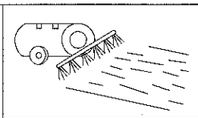
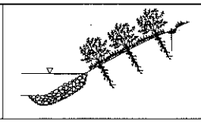
SIGNAL PLANS

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 27-001

12/14/2012 GPLN

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

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".

NO SCALE

REVISION DATES		

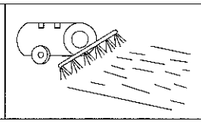
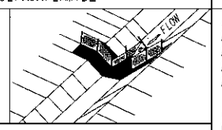
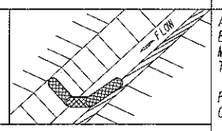
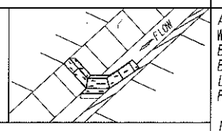
EROSION CONTROL LEGEND

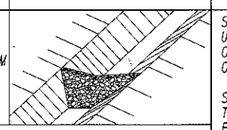
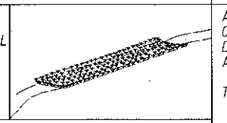
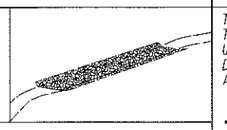
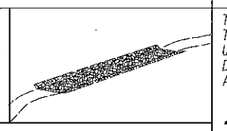
UNIFORM CODE SHEET

SHEET 1 OF 7

CHECKED:	D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:		DATE:	52-001
CORRECTED:		DATE:	
VERIFIED:		DATE:	

7/31/2015 GPLH

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ss	SLOPE STABILIZATION CONSTRUCTION DETAIL D-35 SECTION 716 PATTERN		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 GA. STD 1031 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".

GDOT

NO SCALE

REVISION DATES		

EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 2 OF 7

CHECKED:	D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:		DATE:	52-002
CORRECTED:		DATE:	
VERIFIED:		DATE:	

7/31/2015 GPM

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Ch-2T1	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	LINE CODE: Ch-2T1	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: Ch-2T2	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: Ch-2T3	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: Ch-2T4	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: Ch-2T5	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.
Ch-2T6	TURF REINFORCEMENT MAT (TRM) CONSTRUCTION DETAIL D-35 SECTION 711	LINE CODE: Ch-2T6	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: Ch-3	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: Co	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: D — D — D — Dc-A — D — D — D	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 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 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".

GDOT

NO SCALE

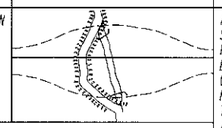
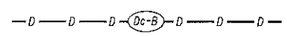
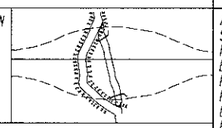
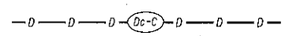
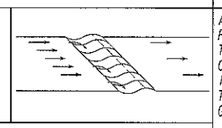
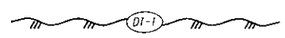
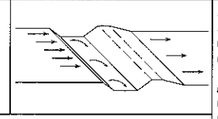
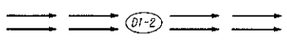
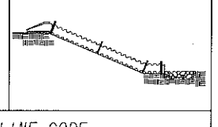
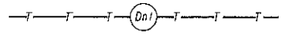
REVISION DATES

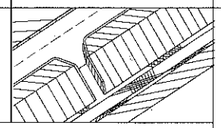
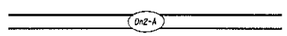
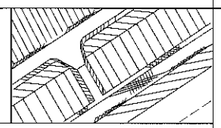
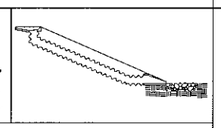
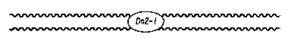
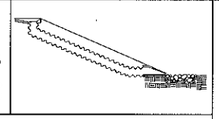
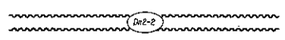
EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 3 OF 7

CHECKED:	D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:		DATE:	52-003
CORRECTED:		DATE:	
VERIFIED:		DATE:	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dc-B	STREAM DIVERSION CHANNEL GEOTEXTILE ONLY 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 ONLY. 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 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.
Dc-C	STREAM DIVERSION CHANNEL RIP-RAP & GEOTEXTILE 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 RIP-RAP AND GEOTEXTILE. 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 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.
Dl-1	DIVERSION BERM CONSTRUCTION DETAIL D-47 SECTION 205	 LINE CODE 	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 'Dnl'OR CATCHMENT AREAS AND ON ALL GRADING PROJECTS.
Dl-2	DIVERSION CHANNEL SECTION 205	 LINE CODE 	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.
Dnl	TEMPORARY DOWNDRAIN STRUCTURE FLEXIBLE CONSTRUCTION DETAIL D-19 SECTION 163	 LINE CODE 	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.

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
Dn2-A	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441	 LINE CODE 	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).
Dn2-B	PERMANENT DOWNDRAIN STRUCTURE CONCRETE CONSTRUCTION DETAIL D-9 SECTION 441	 LINE CODE 	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).
Dn2-l	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP1, 9017J TP1, DETAIL D-26 TP1 SECTION 576, 577	 LINE CODE 	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).
Dn2-2	PERMANENT DOWNDRAIN STRUCTURE GA. STD 9013 TP2, 9017J TP2, DETAIL D-26 TP2 SECTION 576, 577	 LINE CODE 	CONCRETE DRAIN INLET AND METAL PIPE IS USED TO DRAIN CURBS, 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).

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'.

GDOT

NO SCALE

REVISION DATES

EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 4 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
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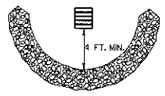
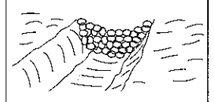
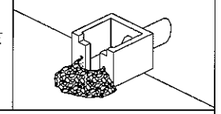
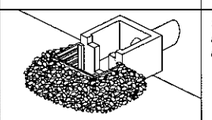
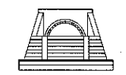
DRAWING No. 52-004

7/31/2015 GPLN

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-1 SHOULD BE PLACED ON TOP OF A GEOTEXTILE UNDERLINER AT A MINIMUM 24" THICKNESS OR AS INDICATED ON THE PLANS. RIP-RAP MAY ALSO BE USED AT DRAINAGE STRUCTURE OUTLETS WITHIN THE RIGHT-OF-WAY. HOWEVER, APPROPRIATE OUTLET PROTECTION SHOULD BE PROVIDED AT OUTFALLS. REFER TO STORM DRAIN OUTLET PROTECTION FOR ADDITIONAL INFORMATION ON USING RIP-RAP AT OUTFALLS.
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
Sdi-WS	SEDIMENT BARRIER (NON-SENSITIVE) SILT FENCE TYPE A CONSTRUCTION DETAIL D-24 SECTION 171 LINE CODE: —A—A—A—Sdi-WS—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.
Sdi-S	SEDIMENT BARRIER (SENSITIVE) SILT FENCE TYPE C CONSTRUCTION DETAIL D-24 SECTION 171 LINE CODE: —C—C—C—Sdi-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".

NO SCALE

REVISION DATES

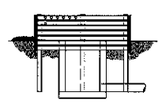
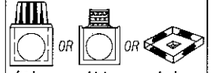
EROSION CONTROL LEGEND

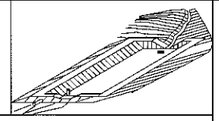
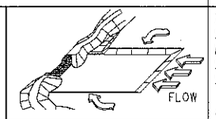
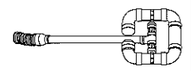
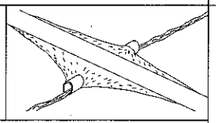
UNIFORM CODE SHEET

SHEET 5 OF 7

CHECKED:	D. EAGLETON	DATE:	01/01/16
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	
VERIFIED:		DATE:	

DRAWING No. 52-005

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-42 SECTION 163	 (a) OR (b) OR (c) 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	 FLOW 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".

GDOT

NO SCALE

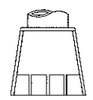
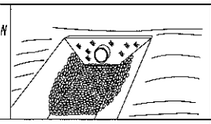
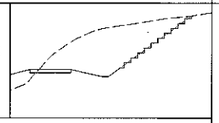
REVISION DATES		

EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 6 OF 7

CHECKED:	D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:		DATE:	52-006
CORRECTED:		DATE:	
VERIFIED:		DATE:	

CODE	PRACTICE STD OR DETAIL SPEC. SECT.	DETAIL	DESCRIPTION
St	STORM DRAIN OUTLET PROTECTION GA. STD. 1125 & 2332	 SYMBOL St	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.
St-Rp	STORM DRAIN OUTLET PROTECTION (RIP-RAP) CONSTRUCTION DETAIL D-55 SECTION 603	 PATTERN FLAT AREA St-Rp OR St-Rp WELL-DEFINED CHANNEL	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.
Su	SURFACE ROUGHENING SERRATED SLOPES CONSTRUCTION DETAIL S-7 SECTION 205	 LINE CODE Su	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.
Tc-F	TURBIDITY CURTAIN FLOATING CONSTRUCTION DETAIL D-51 SECTION 170	 WORK AREA FLOATING LINE CODE Tc-F	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.
Tc-S	TURBIDITY CURTAIN STAKED CONSTRUCTION DETAIL D-51 SECTION 170	 WORK AREA STAKED LINE CODE Tc-S	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.

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.
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".

GDOT

NO SCALE

REVISION DATES		

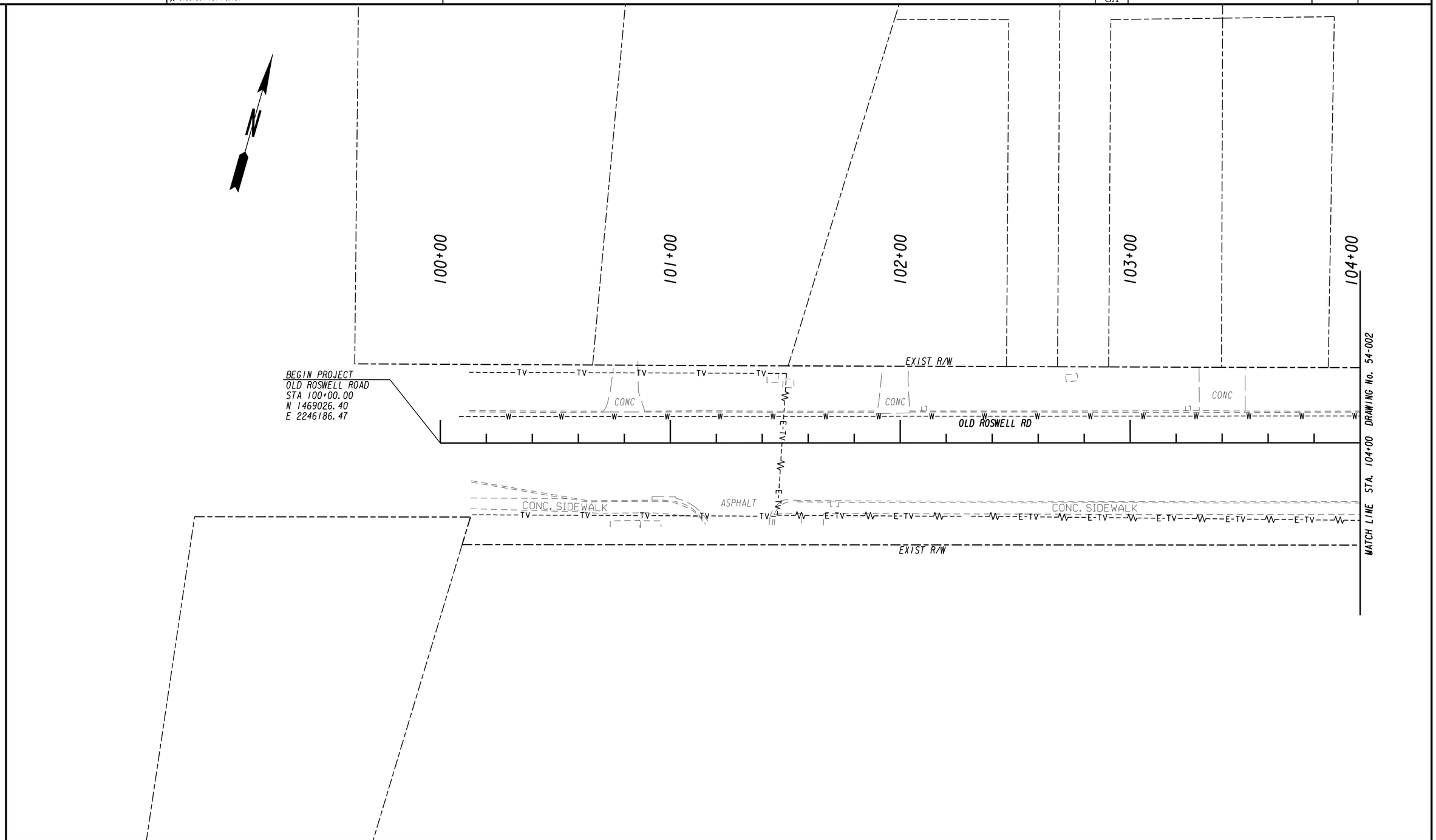
EROSION CONTROL LEGEND

UNIFORM CODE SHEET

SHEET 7 OF 7

CHECKED:	D. EAGLETON	DATE: 01/01/16	DRAWING No.
BACKCHECKED:		DATE:	
CORRECTED:		DATE:	52-007
VERIFIED:		DATE:	

7/31/2015 GPLN



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

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

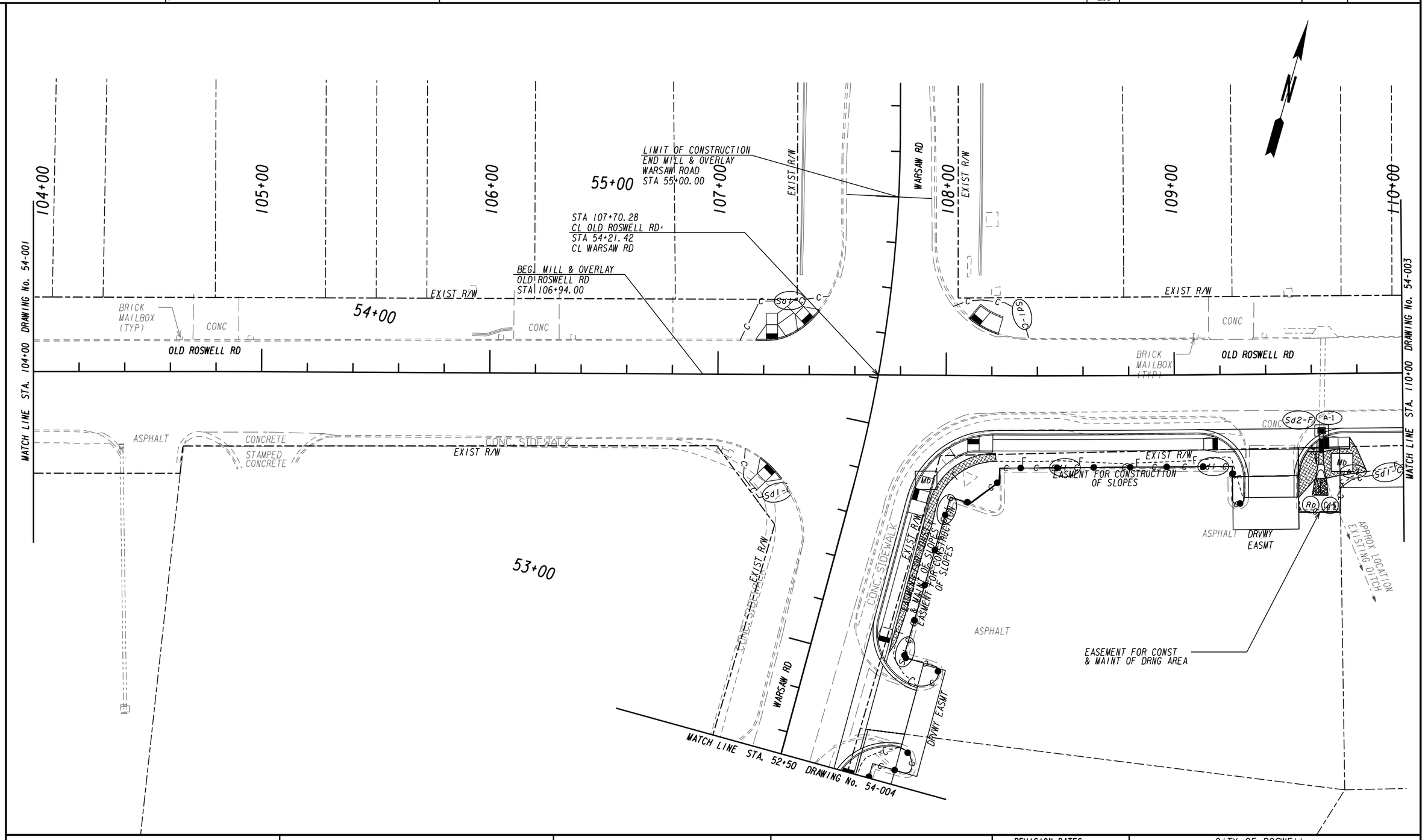
BMP LOCATION DETAILS

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 54-001

4/27/2012 GPLN

4/26/2016 9:49:53 AM csample	GPLOT-V8 gplotborder-V81-P0.tbl	0090612_54-002.dgn	STATE GA	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS



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

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

BMP LOCATION DETAILS

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 54-002

4/27/2012 GPLN

4/25/2016	10:22:50 AM	GPLOT-V8	0090612_54-003.dgn	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
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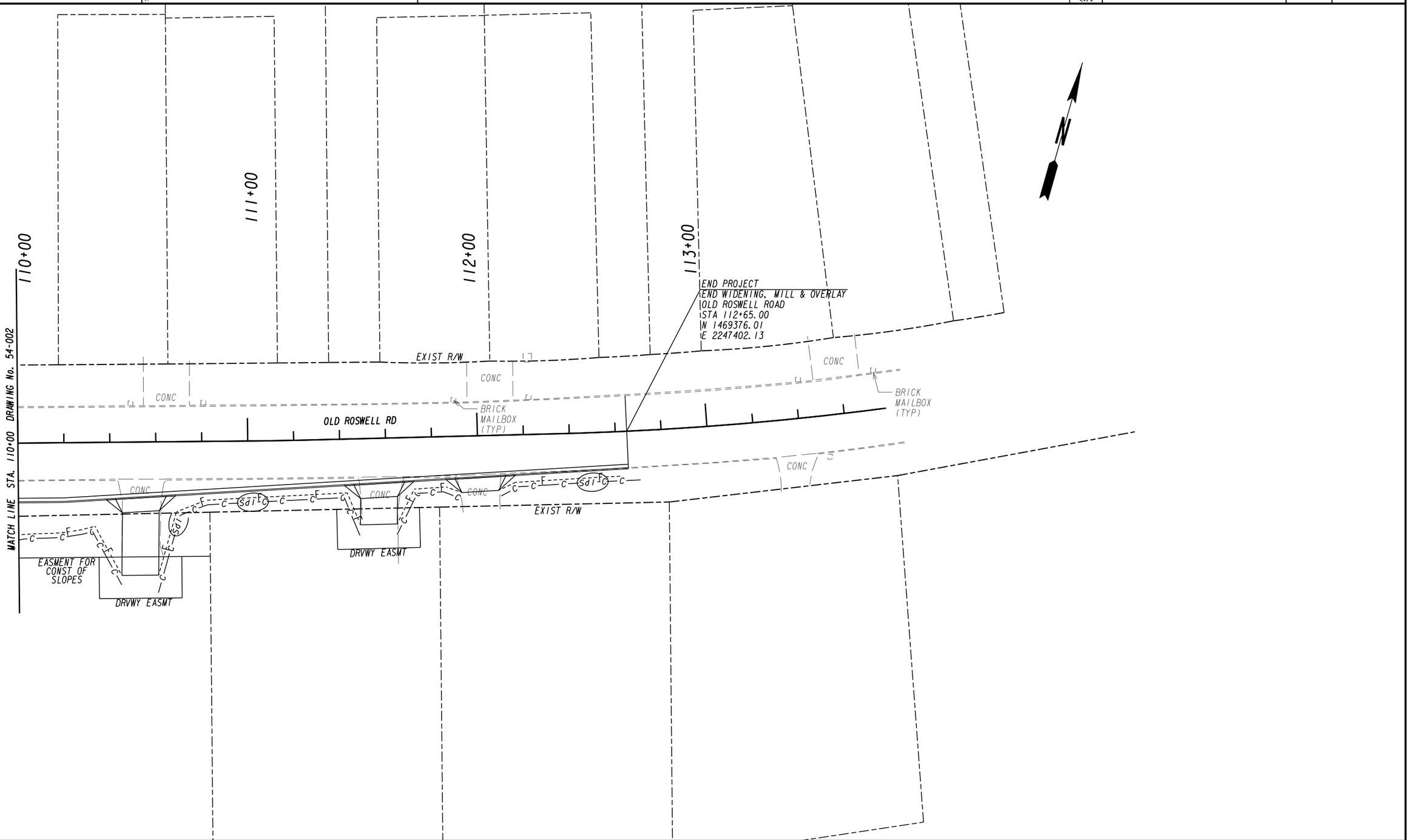

PROPERTY AND EXISTING R/W LINE		BEGIN LIMIT OF ACCESS.....BLA	
REQUIRED R/W LINE		END LIMIT OF ACCESS.....ELA	
CONSTRUCTION LIMITS	—C— F—	LIMIT OF ACCESS	
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES		REQ'D R/W & LIMIT OF ACCESS	
EASEMENT FOR CONSTR OF SLOPES			
EASEMENT FOR CONSTR OF DRIVES			

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES		

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

BMP LOCATION DETAILS

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 54-003

4/27/2012 GPLN

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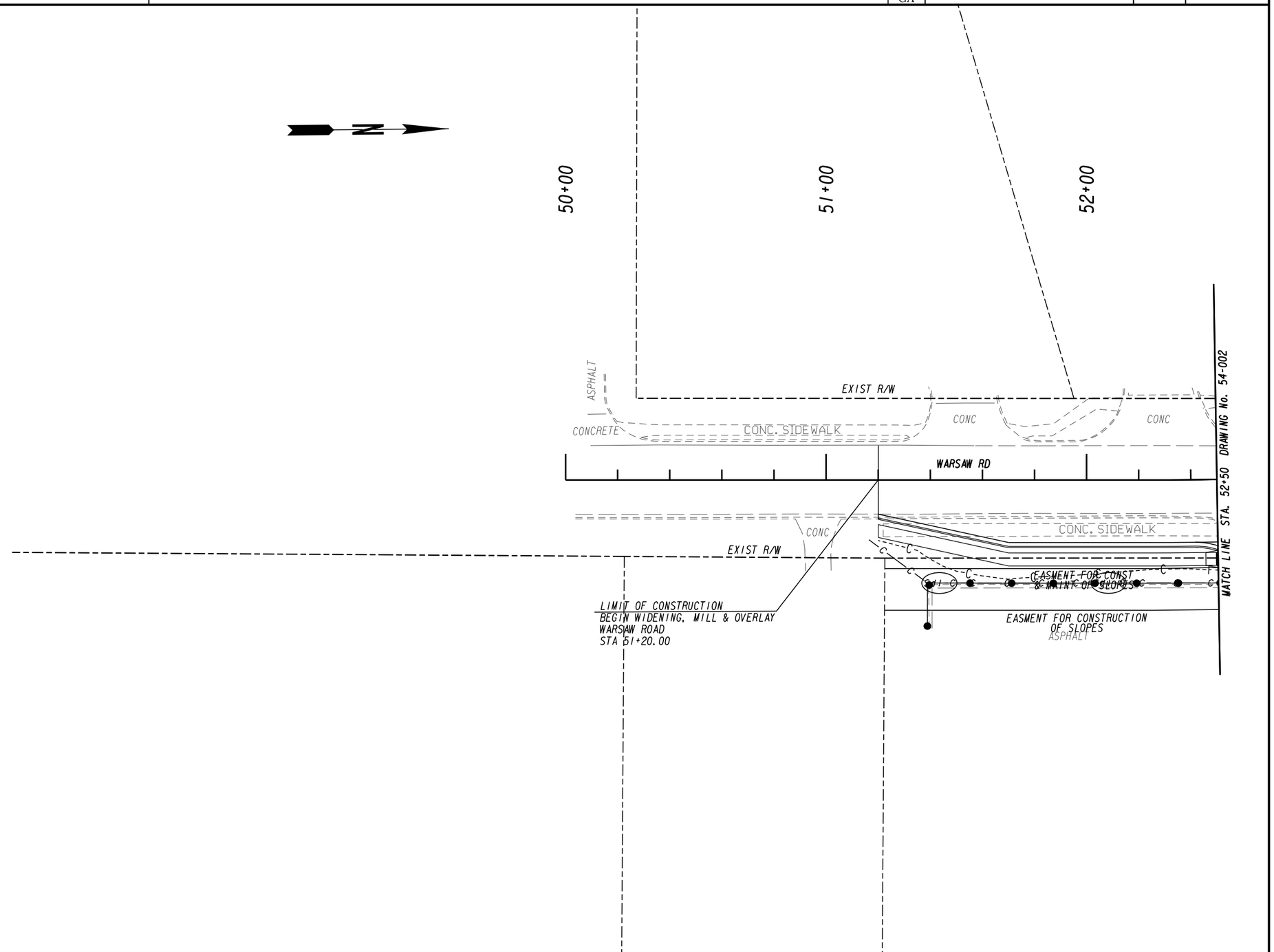

PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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

ROSWELL GEORGIA SINCE 1854

SCALE IN FEET
0 20 40 80

REVISION DATES

CITY OF ROSWELL
TRANSPORTATION DEPARTMENT
OFFICE: ENGINEERING DESIGN DIVISION

BMP LOCATION DETAILS

OLD ROSWELL RD AT WARSAW RD

DRAWING No. 54-004

4/27/2012 GPLN