



**ITB #2021-002 US 19 BUS SR 60 BUS AT OAK GROVE RD ROUNDABOUT
QUESTIONS & ANSWERS
CLARIFICATION ON SPECIFICATIONS
ADDENDUM 2**

Return to: Lumpkin County Board of Commissioners
Ryan McDuffie, Purchasing Agent
99 Courthouse Hill, Suite D
Dahlonega, GA 30533

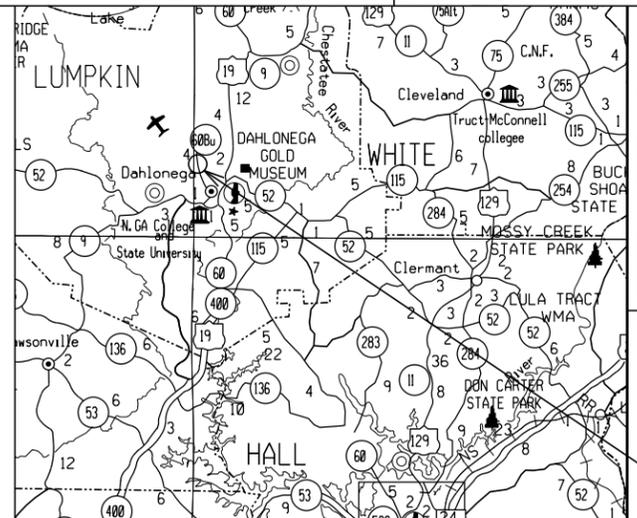
Bid Closing Date: May 6, 2021 at 2:00 PM, EST
Bid Issue Date: April 7, 2021
Addendum Issue Date: April 22, 2021 at 10:00 AM, EST
Pages: 108
By: Ryan McDuffie, Purchasing Agent

Vendor Name: _____
(A copy must be attached to the Addenda Acknowledgement)

*****Revised Plans*****

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

PLAN AND PROFILE OF PROPOSED US 19 BUS/SR 60 BUS AT OAK GROVE RD ROUNDAABOUT LUMPKIN COUNTY



LOCATION SKETCH

DESIGN DATA:
TRAFFIC A.D.T.: 9570 (2019)
DIRECTIONAL DIST: 50%
% TRUCKS: 4%
SPEED DESIGN: 45 MPH

LOCATION & DESIGN APPROVAL DATE: N/A
FUNCTIONAL CLASS:
US 19 BUS/SR 60 BUS - RURAL ARTERIAL
OAK GROVE RD - LOCAL COLLECTOR

THIS PROJECT IS 100% IN LUMPKIN COUNTY AND IS 100% IN CONG.DIST.NO.09.

PROJECT DESIGNATION: STATE FUNDED

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

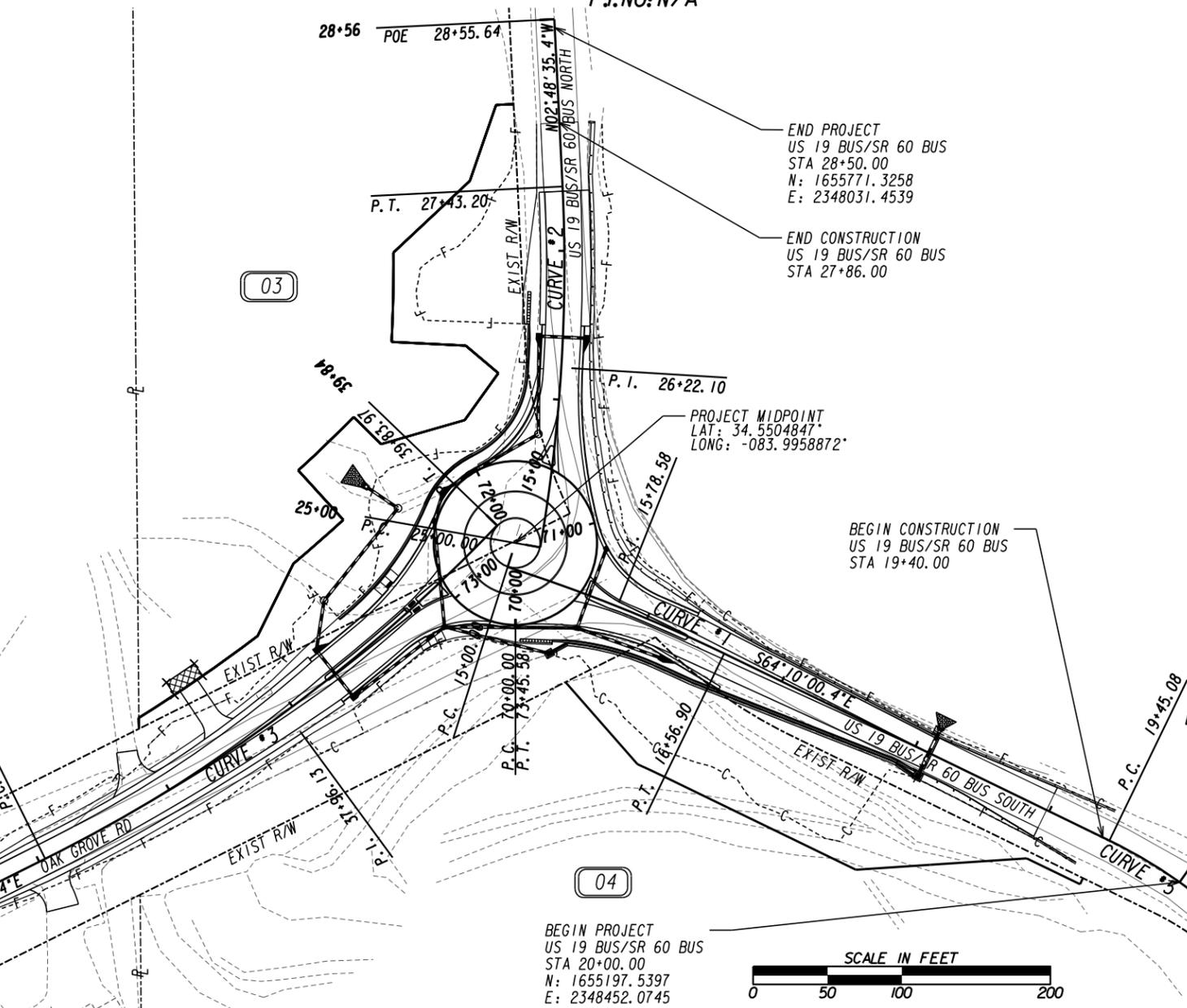
LIMIT OF CONSTRUCTION
OAK GROVE RD
STA 35+50.00
N: 1655189.0482
E: 2347639.8015

LENGTH OF PROJECT	COUNTY No.187
	Project No. N/A
	MILES
NET LENGTH OF ROADWAY	0.38
NET LENGTH OF BRIDGES	0.000
NET LENGTH OF PROJECT	0.38
NET LENGTH OF EXCEPTIONS	0.000
GROSS LENGTH OF PROJECT	0.38

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

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

FEDERAL ROUTE * US 19 BUS
STATE ROUTE * SR 60 BUS
P.I. NO: N/A

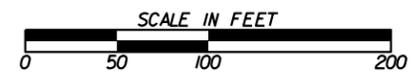


PLANS PREPARED BY: AUSTIN GRAY, P.E.
DESIGN ENGINEER

RECOMMENDED FOR SUBMISSION BY: JUSTIN LOTT, P.E.
DISTRICT DESIGN ENGINEER - DISTRICT I

RECOMMENDED FOR APPROVAL BY: _____
DISTRICT ENGINEER - DISTRICT I

DATE	CHIEF ENGINEER
PLANS COMPLETED	- -
REVISIONS	
04/20/2021	



1. AN N.O.I. IS REQUIRED FOR THIS PROJECT.
2. ALL BORROW AND WASTE SITES FOR THIS PROJECT SHALL BE ENVIRONMENTALLY APPROVED PRIOR TO CONSTRUCTION ACTIVITIES OCCURRING IN THEM. ALL COMMON FILL OR EXCESS MATERIAL DISPOSED OUTSIDE THE PROJECT RIGHT OF WAY SHALL BE PLACED IN EITHER A PERMITTED SOLID WASTE FACILITY, A PERMITTED INERT WASTE LANDFILL, OR IN AN ENGINEERED FILL. SEE SECTION 201 OF THE STANDARD SPECIFICATION AND SUPPLEMENTS THERETO FOR ADDITIONAL INFORMATION.
3. THERE IS NO KNOWN SUITABLE PLACE TO BURY EXISTING CONSTRUCTION DEBRIS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL PROVIDE AN ENVIRONMENTALLY APPROVED SITE AS SHOWN IN GA. SPECIFICATION 201 TO DISPOSE OF EXISTING CONSTRUCTION DEBRIS AT NO ADDITIONAL COST TO THE DEPARTMENT.
4. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS AND DRIVEWAYS IN ACCORDANCE WITH SPECIAL PROVISION 10B.
5. THE CONTRACTOR SHALL MILL VARIABLE DEPTH TO ENSURE SMOOTH TRANSITION AT TIE-IN.
6. TWO (2) WEEKS PRIOR TO OPENING OF ROUNDABOUT, THE CONTRACTOR SHALL INFORM THE TRAVELLING PUBLIC OF THE UPCOMING CHANGE USING PORTABLE CHANGEABLE MESSAGE SIGNS.
7. REMOVAL OF ALL EXISTING DRAINAGE SHALL BE INCLUDED IN THE OVERALL BID PRICE FOR GRADING COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SITE, AS WHAT IS BEING SHOWN IS FOR INFORMATIONAL PURPOSES ONLY. ANY ADDITIONAL DRAINAGE FOUND WILL NOT BE MEASURED FOR PAYMENT.
8. ALL TEMPORARY SHORING WILL BE CONSIDERED INCIDENTAL TO GRADING COMPLETE AND WILL NOT BE MEASURED FOR PAYMENT. TEMPORARY SHORING IS TO BE INCLUDED IN THE OVERALL BID PRICE SUBMITTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE NEED FOR SHORING. WHAT IS SHOWN IS FOR INFORMATIONAL PURPOSES ONLY.
9. ALL DRIVEWAYS THAT ARE TO BE RECONSTRUCTED WILL BE PAVED BACK TO THE TIE IN POINT OR REQUIRED RIGHT OF WAY, WHICHEVER IS GREATER, UNLESS PLANS SHOW OTHERWISE. ALL DRIVEWAYS OVER 11% IN GRADE SHALL BE PAVED WITH CONCRETE UNLESS OTHERWISE NOTED IN THE PLANS. ALL OTHER DRIVEWAYS SHALL BE REPLACED AS FOLLOWS: ASPHALT FOR ASPHALT, CONCRETE FOR CONCRETE AND ASPHALT FOR EARTH / GRAVEL DRIVES. 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. EXISTING DRIVEWAY LOCATIONS ARE SHOWN FROM THE BEST AVAILABLE DATA; THE CONTRACTOR SHALL CONSTRUCT DRIVEWAYS TO MATCH THE LOCATION OF EXISTING DRIVEWAYS AT THE TIE IN POINT, IF APPLICABLE. 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. DRIVES SHALL BE CONSTRUCTED USING:

RESIDENTIAL:
 ASPHALT - 165 LB/SY RECYCLED ASPHALT CONC. 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME GRADED AGGREGATE BASE, 6".
 CONCRETE - DRIVEWAY CONCRETE, 6 IN THICK, (URBAN SHOULDER) CONC VALLEY GUTTER, 6 IN.

UTILITY OWNER	SERVICE
ATLANTA GAS LIGHT	GAS
CITY OF DAHLONEGA	WATER
CITY OF DAHLONEGA	SANITARY SEWER
WINDSTREAM	TELECOMMUNICATIONS
GEORGIA POWER	ELECTRIC

UTILITY LOCATIONS PROVIDED BY UTILITY OWNERS.



REVISION DATES

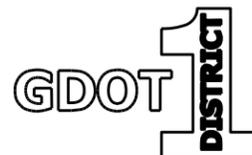
GENERAL NOTES

US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

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

GENERAL NOTES - STANDARD SIGNS

1. ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, AND THE GEORGIA SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.
2. SIGN ERECTION STATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS WHERE NECESSARY, BUT SHALL BE WITHIN THE LIMITATIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. NO SIGN LOCATION SHALL BE CHANGED BY THE CONTRACTOR OR BY THE PROJECT ENGINEER WITHOUT PRIOR APPROVAL FROM THE OFFICE OF TRAFFIC OPERATIONS.
3. ALL STANDARD HIGHWAY SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE NORMAL EDGE OF PAVEMENT TO THE BOTTOM OF THE SIGN OR ASSEMBLY. IF SIDEWALK IS PROPOSED OR EXISTING, THE SIGNS SHALL BE ERECTED AT A HEIGHT OF 7 FEET ABOVE THE SIDEWALK.
- 4a. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON INTERSTATE HIGHWAYS SHALL BE 32 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), UNLESS SPECIFIED OTHERWISE IN THE PLANS. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON RAMPS SHALL BE 2 FEET FROM THE NORMAL EDGE OF PAVED SHOULDER, OR EDGE OF GRADED SHOULDER WHEN PRESENT.
- 4b. HORIZONTAL CLEARANCE FOR STANDARD HIGHWAY SIGNS ON ALL OTHER ROADWAYS SHALL BE 6 FEET FROM THE EDGE OF THE PAVED SHOULDER OR 12 FEET FROM THE NORMAL EDGE OF PAVEMENT TO THE NEARER EDGE OF THE SIGN(S), WHICHEVER IS GREATER. THE HORIZONTAL CLEARANCE IN NON-MOUNTABLE CURB SECTIONS SHALL BE AT LEAST 2 FEET FROM THE CURB FACE TO THE NEARER EDGE OF THE SIGN(S).
- 4c. WHEN GUARDRAIL IS PRESENT OR BEING PROPOSED, SIGNS SHALL BE POSTED AN UNSTIPULATED DISTANCE BEHIND GUARDRAIL.
5. SINGLE PLATE, HORIZONTAL RECTANGULAR SIGNS OVER 48 INCHES IN WIDTH SHALL BE MOUNTED ON TWO POSTS WITH 2 EACH 2 INCH x 1/2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAPS. THE STRAPS SHALL BE FLUSH WITH THE BACK OF THE SIGN WITH ONE EACH ACROSS THE TOP AND BOTTOM OF THE SIGN. THE CENTERLINE OF EACH POST SHALL BE INSET 1/6TH OF THE SIGN WIDTH FROM THE EDGE OF THE SIGN. SIGN PLATE BOLT HOLES SHALL BE 3/8 INCH DIAMETER, DRILLED OR PUNCHED, AS SHOWN ON THE SIGN PLATE DETAILS.
6. EACH 42 OR 48 INCH WIDE x 18 OR 24 INCH HIGH SIGN REQUIRES ONE 2 INCH x 1/2 INCH x (WIDTH OF SIGN) ALUMINUM OR GALVANIZED STEEL STRAP LOCATED IN THE CENTER OF THE SIGN AND FLUSH WITH THE BACK OF THE SIGN.
7. SIGN ASSEMBLIES SHALL BE MOUNTED ON ALUMINUM OR GALVANIZED STEEL STRAP FRAMES. FOR DETAILS AND STRAP SPECIFICATIONS REFER TO SIGN ASSEMBLY-TYPICAL FRAMING DETAILS.
8. TYPE 9 (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 1 OR CLASS 2 ADHESIVE BACKING IS PERMISSIBLE.
9. TYPE 11 (VERY HIGH INTENSITY) REFLECTIVE SHEETING SHALL BE USED FOR ALL RED SERIES SIGNS (R1-1, R1-2, R1-3P, R5-1, R5-1A, R5-1B).
10. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW REFLECTIVE SHEETING SHALL BE USED FOR ALL WARNING SIGNS.
11. TYPE 11 (VERY HIGH INTENSITY) FLUORESCENT YELLOW GREEN REFLECTIVE SHEETING SHALL BE USED FOR SCHOOL ZONE (S1-1, S2-1, S3-1, S4-3, AND THE TOP PORTION OF THE S5-1) SIGNS. ALL REGULATORY SIGNS WITHIN THE SCHOOL ZONE SIGNING SHALL HAVE TYPE 9 (VERY HIGH INTENSITY) REFLECTIVE SHEETING.
12. A 1/2 INCH MINIMUM AIR SPACE SHALL BE REQUIRED BETWEEN ALL SIGN PLATES WITHIN AN ASSEMBLY.
13. WHERE SIGNS WITHIN AN ASSEMBLY EXTEND BELOW THE STANDARD MOUNTING HOLES ON THE POST(S), ADDITIONAL 3/8 INCH DIAMETER HOLE(S), DRILLED OR PUNCHED, SHALL BE REQUIRED TO PROPERLY MOUNT THE ASSEMBLY.
14. ALL INTERSTATE, U.S., AND GEORGIA SHIELDS REQUIRING ALT, BUS, CONN, LOOP, OR SPUR SHALL USE 4 INCH SERIES "D" LETTERS. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, FOR DETAILS.
15. FOR DETAILS OF SPECIAL DESIGN HIGHWAY SIGNS, SEE DETAILS OF MISCELLANEOUS SIGNS.
16. REFER TO PLAN SHEETS FOR LOCATION OF THE DISTRICT ENGINEERS OFFICE TO BE SHOWN ON ALL R552-1 (LIMITED ACCESS) SIGNS IN THIS PROJECT, IF ANY.
17. THE CONTRACTOR WILL, AS REQUESTED BY THE DISTRICT TRAFFIC OPERATIONS ENGINEER, BE REQUIRED TO REMOVE ANY EXISTING SIGNS THAT ARE DUPLICATED OR ARE CONTRARY TO THESE SIGN PLANS.



REVISION DATES

NO.	DESCRIPTION	DATE

GENERAL NOTES

US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	04-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

Project Number: N/A

County: Lumpkin

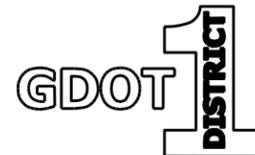
P.I. Number: N/A

Pipe Culvert Material Alternates

TYPE OF INSTALLATION			PIPE TYPE											
			CONCRETE	STEEL			ALLUMINUM	THERMOPLASTIC						
			REINFORCED CONCRETE AASHTO M-170	CORRUGATED STEEL ALUMINUM COATED (TYPE 2) AASHTO M-36	CORRUGATED STEEL PLAIN ZINC COATED AASHTO M-36	POLYMER COATED STEEL AASHTO M-245	CORRUGATED ALUMINUM AASHTO M-196	CORRUGATED HDPE AASHTO M-252	CORRUGATED SMOOTHED LINED HDPE TYPE "S" AASHTO M-294	CORRUGATED SMOOTH LINED POLYPROPYLENE AASHTO M 330	PVC CORRUGATED SMOOTH INTERIOR ASTM F-949	PVC Profile Wall Drain Pipe AASHTO M-304		
S T O R M D R A I N	NON-TRAVEL BEARING (OUTSIDE ROADBED)	INTERSTATE	X											
		NON INTERSTATE	X	X		X	X		X	X	X	X		
	TRAVEL BEARING (INSIDE ROADBED)	GRADE ≤ 10%	ADT < 1,500	X	X		X	X		X	X	X	X	
			1,500 < ADT < 5,000	X	X		X	X		X	X	X	X	
			5,000 < ADT < 15,000	X							X	X	X	X
			ADT > 15,000 & INTERSTATES	X										
			GRADE > 10%				X				X	X	X	X
SIDE DRAIN		X	X	X	X	X		X	X	X	X			
PERMANENT SLOPE DRAIN			X	X	X	X		X	X	X	X			
PERFORATED UNDERDRAIN			X	X		X	X	X	X	X	X			

NOTES:

- 1 Allowable materials are indicated by an "X".
- 2 Structural, installation, fill height and backfill requirements of storm drain pipe will be in accordance with Georgia Standard 1030-D or 1030-P and the Standard Specifications
- 3 The Contractor shall provide additional storm sewer capacity calculations if a pipe material other than concrete is selected.
- 4 Pipe used under mechanically stabilized earth (MSE) walls, within MSE wall backfill, or within five feet of an MSE wall face shall be Class V Concrete Pipe.

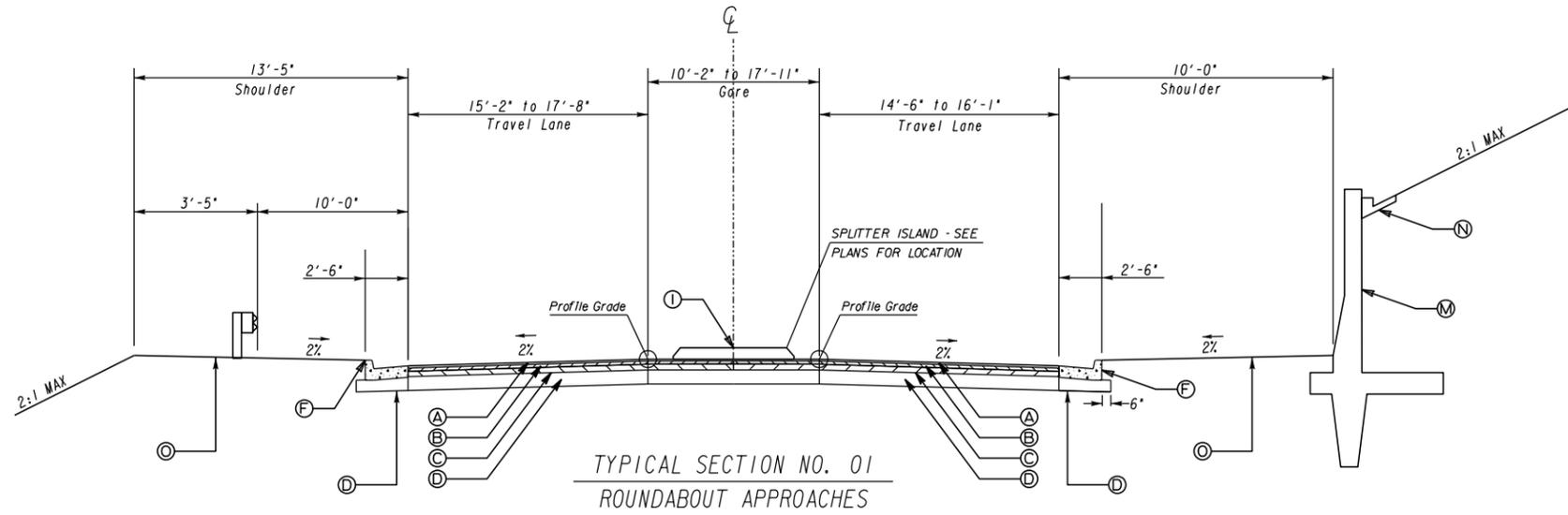


REVISION DATES

GENERAL NOTES

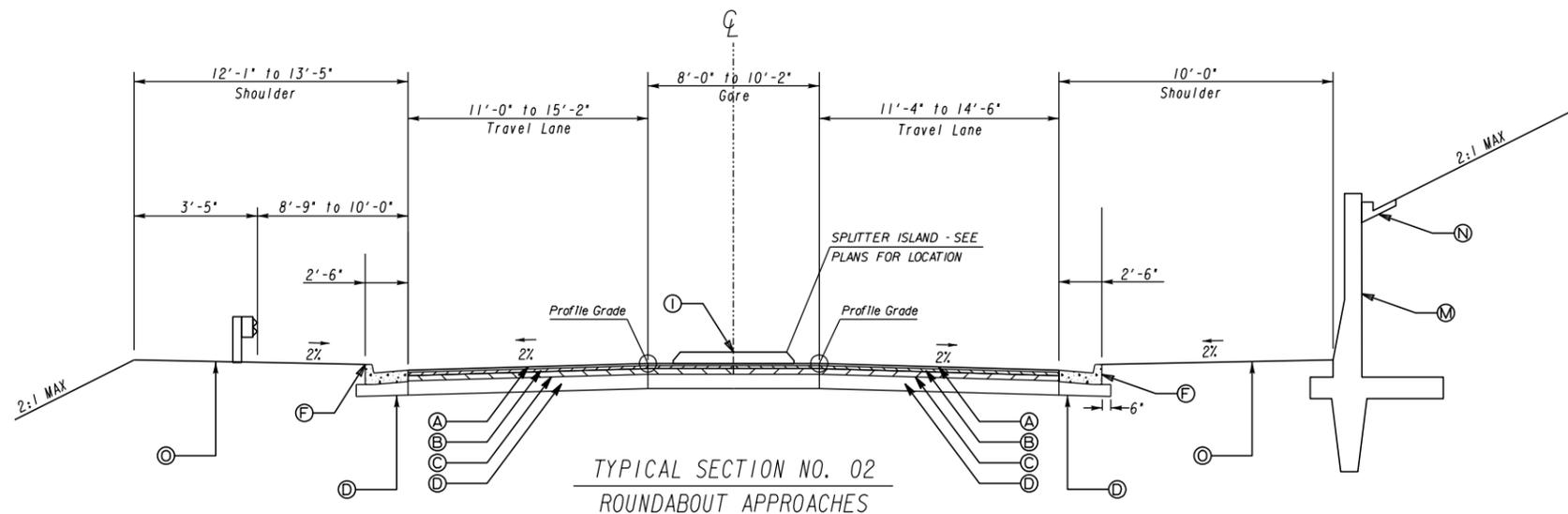
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

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BACKCHECKED:	DATE:	04-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	



TYPICAL SECTION NO. 01
ROUNDBOUNT APPROACHES

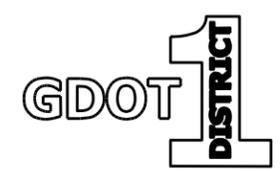
US 19 BUS/SR 60 BUS SOUTH
STA 15+55.20 TO STA 15+72.00



TYPICAL SECTION NO. 02
ROUNDBOUNT APPROACHES

US 19 BUS/SR 60 BUS SOUTH
STA 15+72.00 TO STA 16+04.00

PAVEMENT MATERIAL SCHEDULE	
A	RECYCLED ASPH CONC. 12.5 mm SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME, 165 LB/SY
B	RECYCLED ASPH CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 LB/SY
C	RECYCLED ASPH CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 550 LB/SY
D	GRADED AGGREGATE BASE, 12"
E	PLAIN PC CONC PVMT, CL HES CONC, 10" THK, STAMPED AND COLORED (FEDRAL CODE *31136)
F	8"X30" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 2
G	8"X32" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 9
H	PAVEMENT REINFORCED FABRIC STRIPS, TP 2, 18" WIDTH
I	CONCRETE DOWELED MEDIAN, 6" TP. 7 FACE
J	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME (AS REQ'D)
K	MILL ASPH CONC PVMT, VARIABLE DEPTH
L	CONCRETE SIDE BARRIER, TYPE 2-S - SEE PLANS FOR TYPE AND HEIGHT
M	CONCRETE SIDE BARRIER, TYPE 6-S - SEE PLANS FOR TYPE AND HEIGHT
N	4" CONC DITCH PAVING
O	SOD
P	SHOULDER RUMBLE STRIPS, SEE GDOT DETAILS T-23B & T-25
Q	EDGE LINE RUMBLE STRIPS, SEE GDOT DETAILS T-23A & T-25



N. T. S.

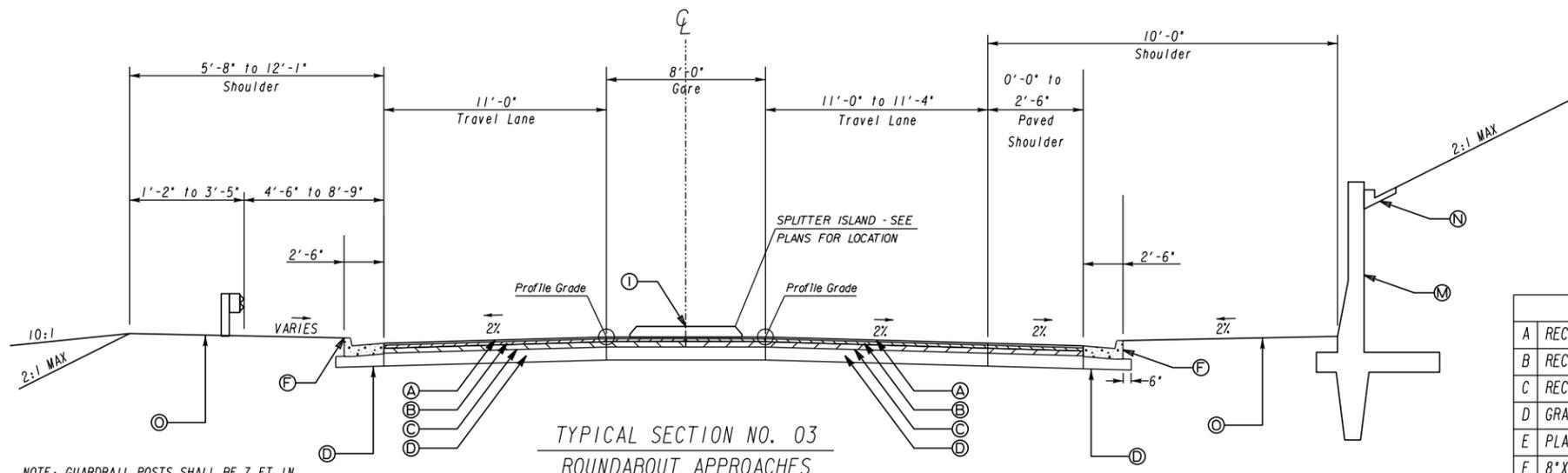
REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS

US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

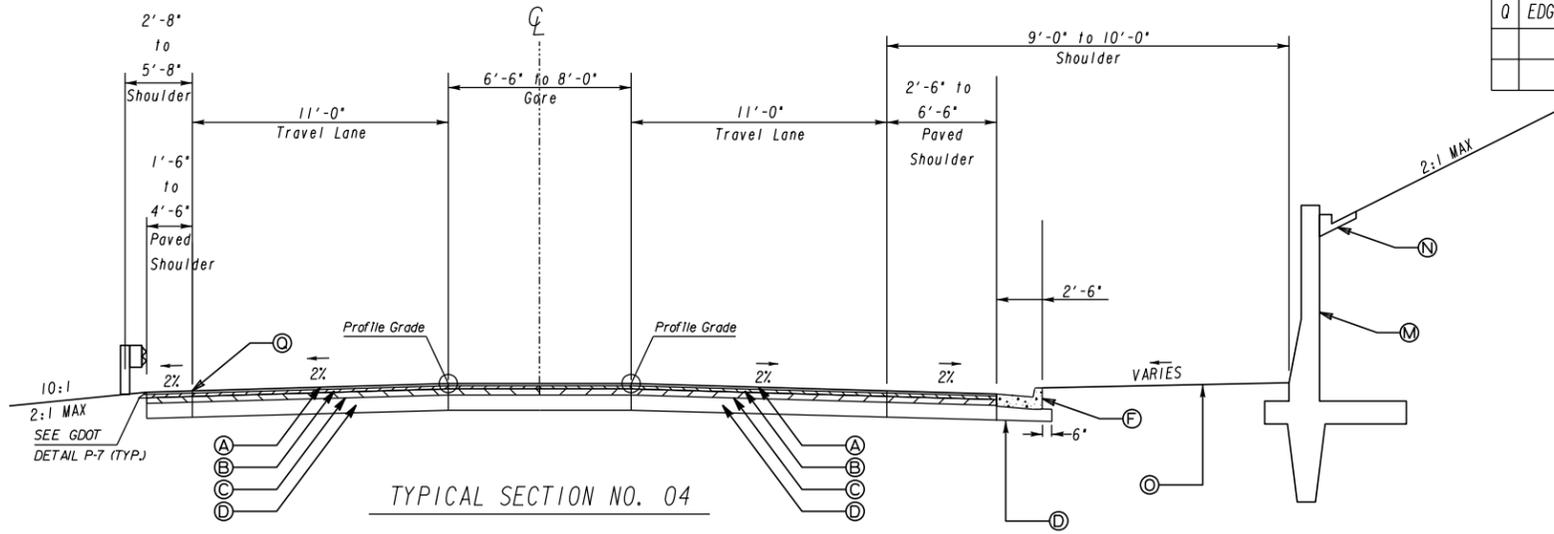


TYPICAL SECTION NO. 03
ROUNDBOUT APPROACHES

US 19 BUS/SR 60 BUS SOUTH
STA 16+04.00 TO STA 16+30.21

NOTE: GUARDRAIL POSTS SHALL BE 7 FT IN LENGTH WHEN OFFSET FROM BACK OF POST TO SHOULDER BREAK IS LESS THAN 2'-0" BUT GREATER THAN OR EQUAL TO 1'-0". GUARDRAIL POSTS SHALL BE 9 FT IN LENGTH WHEN OFFSET FROM BACK OF POST TO SHOULDER BREAK IS LESS THAN 1'-0" AND WHEN CENTER OF POST IS PLACED ON SHOULDER BREAK POINT. SEE GA STD. 4381 FOR ADDITIONAL INFORMATION.

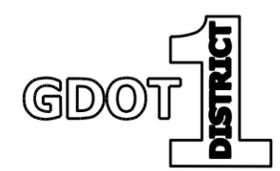
PAVEMENT MATERIAL SCHEDULE	
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B	RECYCLED ASPH CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 LB/SY
C	RECYCLED ASPH CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 550 LB/SY
D	GRADED AGGREGATE BASE, 12"
E	PLAIN PC CONC PVMT, CL HES CONC, 10" THK, STAMPED AND COLORED (FEDRAL CODE *31136)
F	8"x30" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 2
G	8"x32" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 9
H	PAVEMENT REINFORCED FABRIC STRIPS, TP 2, 18" WIDTH
I	CONCRETE DOWELED MEDIAN, 6" TP. 7 FACE
J	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME (AS REQ'D)
K	MILL APSPH CONC PVMT, VARIABLE DEPTH
L	CONCRETE SIDE BARRIER, TYPE 2-S - SEE PLANS FOR TYPE AND HEIGHT
M	CONCRETE SIDE BARRIER, TYPE 6-S - SEE PLANS FOR TYPE AND HEIGHT
N	4" CONC DITCH PAVING
O	SOD
P	SHOULDER RUMBLE STRIPS, SEE GDOT DETAILS T-23B & T-25
Q	EDGE LINE RUMBLE STRIPS, SEE GDOT DETAILS T-23A & T-25



TYPICAL SECTION NO. 04

US 19 BUS/SR 60 BUS SOUTH
STA 16+30.21 TO STA 16+64.24

NOTE: GUARDRAIL POSTS SHALL BE 9 FT IN LENGTH WHEN CENTER OF POST IS PLACED ON SHOULDER BREAK POINT. SEE GA STD. 4381 FOR ADDITIONAL INFORMATION.



N. T. S.

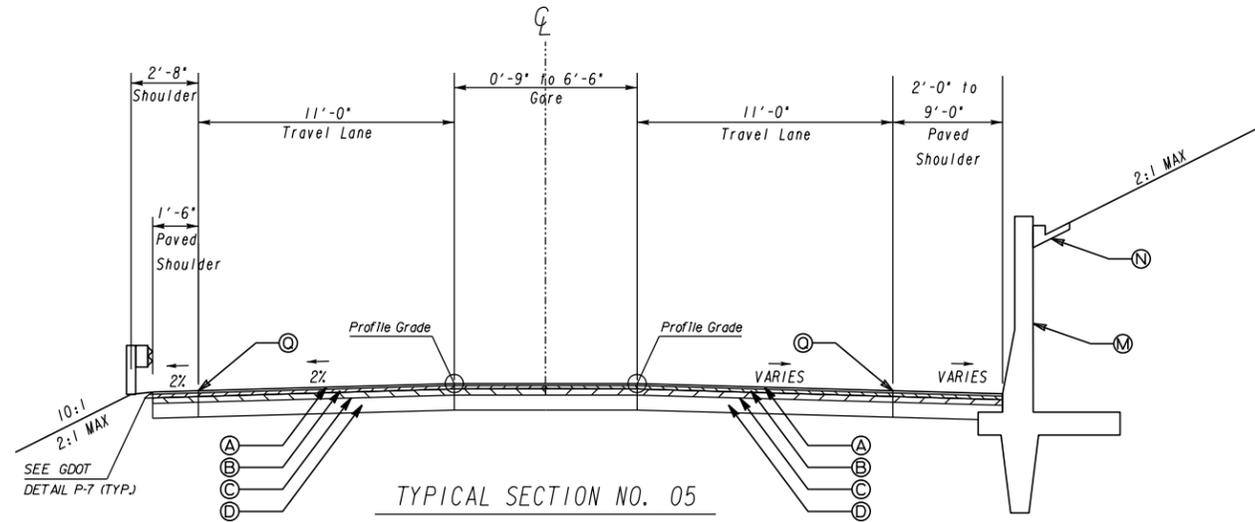
REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS

US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

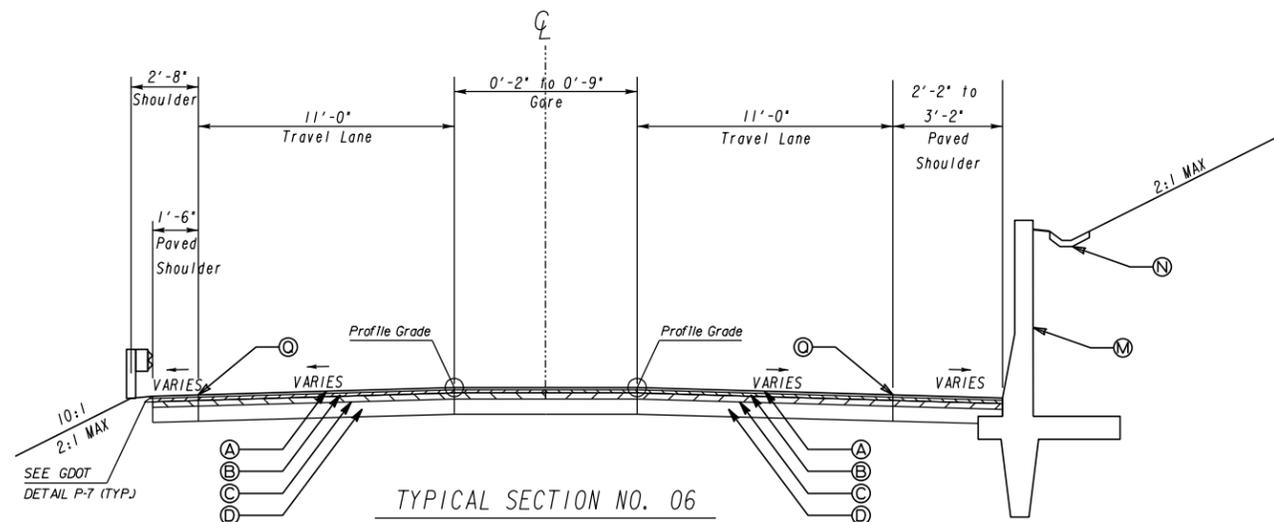
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BACKCHECKED:	DATE:	05-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



TYPICAL SECTION NO. 05

US 19 BUS/SR 60 BUS SOUTH
STA 16+64.24 to STA 17+93.46

NOTE: GUARDRAIL POSTS SHALL BE 9 FT IN LENGTH WHEN CENTER OF POST IS PLACED ON SHOULDER BREAK POINT. SEE GA STD. 4381 FOR ADDITIONAL INFORMATION.

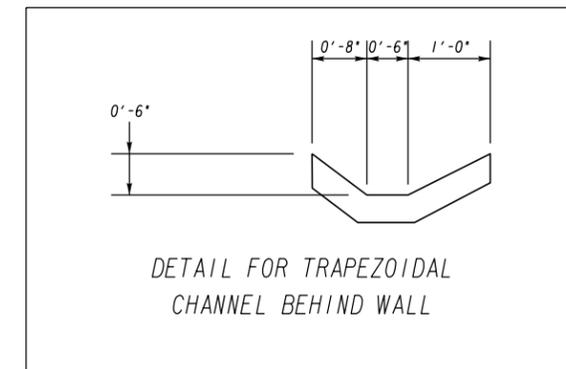


TYPICAL SECTION NO. 06

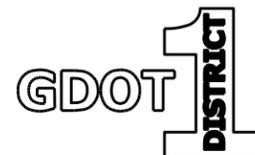
US 19 BUS/SR 60 BUS SOUTH
STA 17+93.46 to STA 18+06.95

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B	RECYCLED ASPH CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 LB/SY
C	RECYCLED ASPH CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 550 LB/SY
D	GRADED AGGREGATE BASE, 12"
E	PLAIN PC CONC PVMT, CL HES CONC, 10" THK, STAMPED AND COLORED (FEDRAL CODE *31136)
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G	8"x32" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 9
H	PAVEMENT REINFORCED FABRIC STRIPS, TP 2, 18" WIDTH
I	CONCRETE DOWELED MEDIAN, 6" TP. 7 FACE
J	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME (AS REQ'D)
K	MILL ASPH CONC PVMT, VARIABLE DEPTH
L	CONCRETE SIDE BARRIER, TYPE 2-S - SEE PLANS FOR TYPE AND HEIGHT
M	CONCRETE SIDE BARRIER, TYPE 6-S - SEE PLANS FOR TYPE AND HEIGHT
N	4" CONC DITCH PAVING
O	SOD
P	SHOULDER RUMBLE STRIPS, SEE GDOT DETAILS T-23B & T-25
Q	EDGE LINE RUMBLE STRIPS, SEE GDOT DETAILS T-23A & T-25



DETAIL FOR TRAPEZOIDAL CHANNEL BEHIND WALL



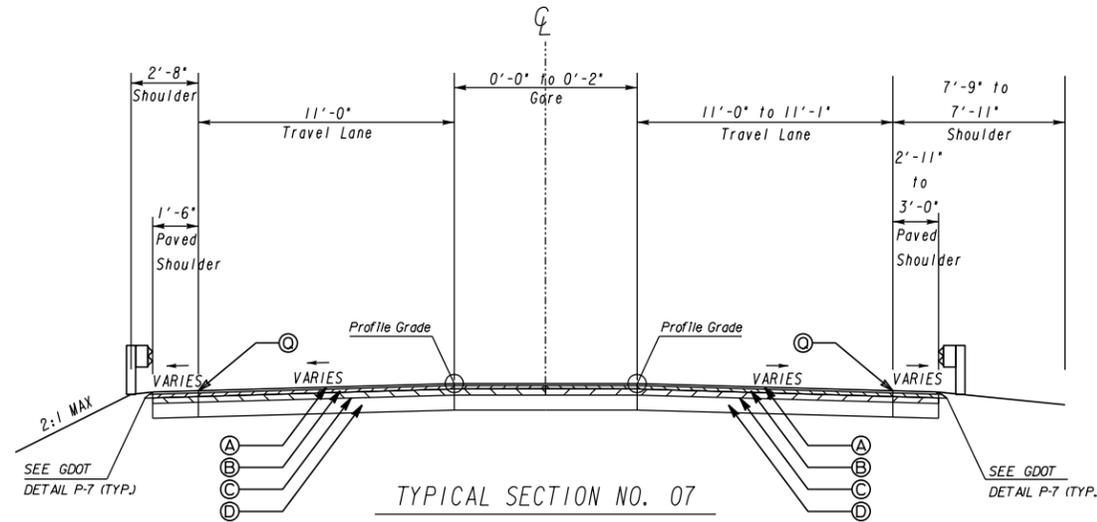
N. T. S.

REVISION DATES

TYPICAL SECTIONS

US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	

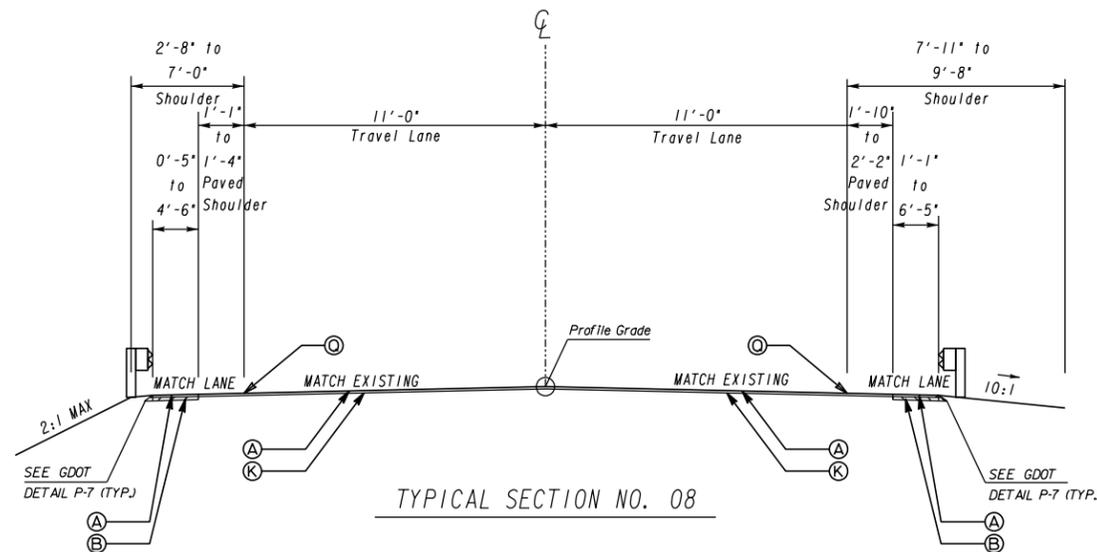


TYPICAL SECTION NO. 07

US 19 BUS/SR 60 BUS SOUTH
STA 18+06.95 to STA 18+12.00

NOTE: GUARDRAIL POSTS SHALL BE 9 FT IN LENGTH WHEN CENTER OF POST IS PLACED ON SHOULDER BREAK POINT. SEE GA STD. 4381 FOR ADDITIONAL INFORMATION.

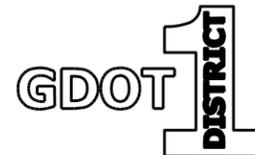
PAVEMENT MATERIAL SCHEDULE	
A	RECYCLED ASPH CONC. 12.5 mm SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME, 165 LB/SY
B	RECYCLED ASPH CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 LB/SY
C	RECYCLED ASPH CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 550 LB/SY
D	GRADED AGGREGATE BASE, 12"
E	PLAIN PC CONC PVMT, CL HES CONC, 10" THK, STAMPED AND COLORED (FEDRAL CODE *31136)
F	8"X30" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 2
G	8"X32" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 9
H	PAVEMENT REINFORCED FABRIC STRIPS, TP 2, 18" WIDTH
I	CONCRETE DOWELED MEDIAN, 6" TP. 7 FACE
J	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME (AS REQ'D)
K	MILL ASPH CONC PVMT, VARIABLE DEPTH
L	CONCRETE SIDE BARRIER, TYPE 2-S - SEE PLANS FOR TYPE AND HEIGHT
M	CONCRETE SIDE BARRIER, TYPE 6-S - SEE PLANS FOR TYPE AND HEIGHT
N	4" CONC DITCH PAVING
O	SOD
P	SHOULDER RUMBLE STRIPS, SEE GDOT DETAILS T-23B & T-25
Q	EDGE LINE RUMBLE STRIPS, SEE GDOT DETAILS T-23A & T-25



TYPICAL SECTION NO. 08

US 19 BUS/SR 60 BUS SOUTH
STA 18+12.00 to STA 18+98.00

NOTE: GUARDRAIL POSTS SHALL BE 9 FT IN LENGTH WHEN CENTER OF POST IS PLACED ON SHOULDER BREAK POINT. SEE GA STD. 4381 FOR ADDITIONAL INFORMATION.



N. T. S.

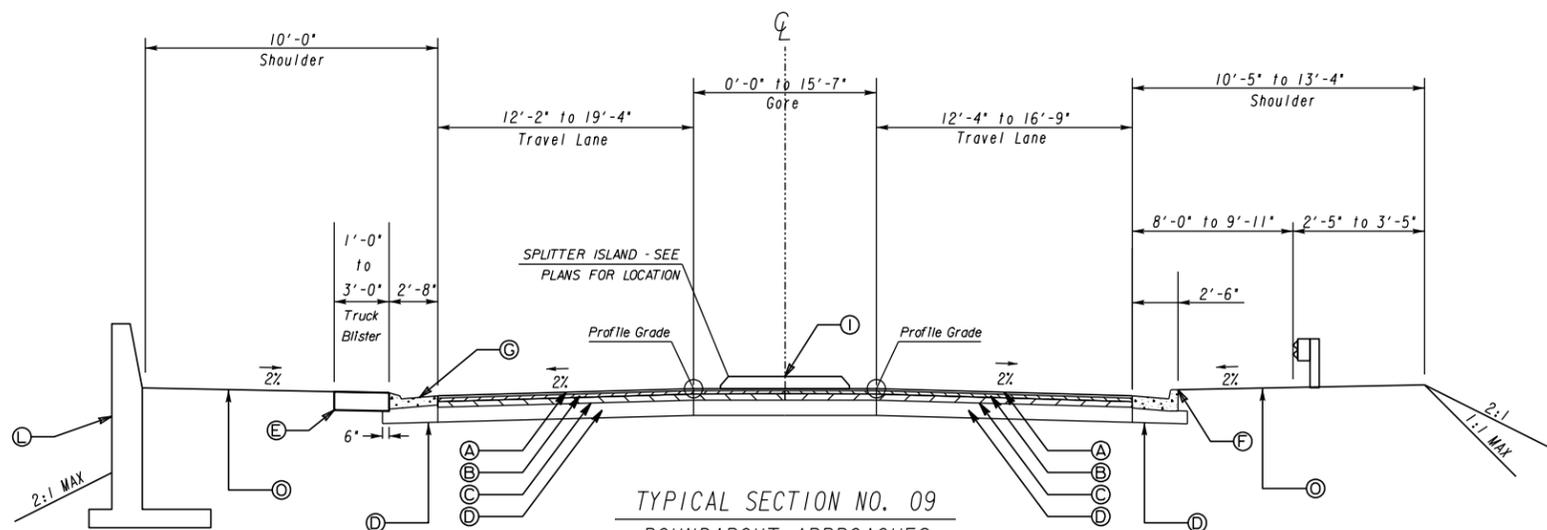
REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS

US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	

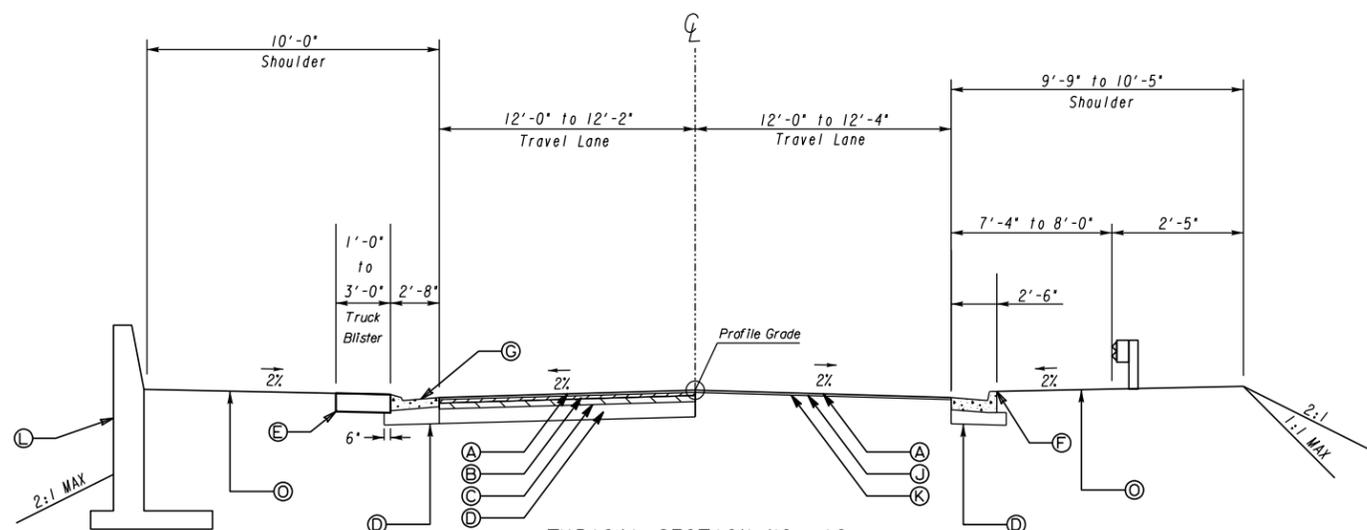


TYPICAL SECTION NO. 09
ROUNDBOAT APPROACHES

US 19 BUS/SR 60 BUS NORTH
STA 26+55.89 TO STA 26+10.00

NOTE: GUARDRAIL POSTS SHALL BE 7 FT IN LENGTH WHEN OFFSET FROM BACK OF POST TO SHOULDER BREAK IS LESS THAN 2'-0" BUT GREATER THAN OR EQUAL TO 1'-0". SEE GA STD. 4381 FOR ADDITIONAL INFORMATION.

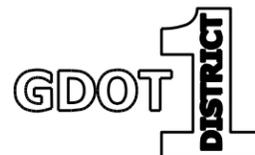
PAVEMENT MATERIAL SCHEDULE	
A	RECYCLED ASPH CONC. 12.5 mm SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME, 165 LB/SY
B	RECYCLED ASPH CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 LB/SY
C	RECYCLED ASPH CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 550 LB/SY
D	GRADED AGGREGATE BASE, 12"
E	PLAIN PC CONC PVMT, CL HES CONC, 10" THK, STAMPED AND COLORED (FEDRAL CODE *31136)
F	8"X30" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 2
G	8"X32" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 9
H	PAVEMENT REINFORCED FABRIC STRIPS, TP 2, 18" WIDTH
I	CONCRETE DOWELED MEDIAN, 6" TP. 7 FACE
J	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME (AS REQ'D)
K	MILL APH CONC PVMT, VARIABLE DEPTH
L	CONCRETE SIDE BARRIER, TYPE 2-S - SEE PLANS FOR TYPE AND HEIGHT
M	CONCRETE SIDE BARRIER, TYPE 6-S - SEE PLANS FOR TYPE AND HEIGHT
N	4" CONC DITCH PAVING
O	SOD
P	SHOULDER RUMBLE STRIPS, SEE GDOT DETAILS T-23B & T-25
Q	EDGE LINE RUMBLE STRIPS, SEE GDOT DETAILS T-23A & T-25



TYPICAL SECTION NO. 10
ROUNDBOAT APPROACHES

US 19 BUS/SR 60 BUS NORTH
STA 26+10.00 TO STA 26+20.00

NOTE: GUARDRAIL POSTS SHALL BE 7 FT IN LENGTH WHEN OFFSET FROM BACK OF POST TO SHOULDER BREAK IS LESS THAN 2'-0" BUT GREATER THAN OR EQUAL TO 1'-0". SEE GA STD. 4381 FOR ADDITIONAL INFORMATION.



N. T. S.

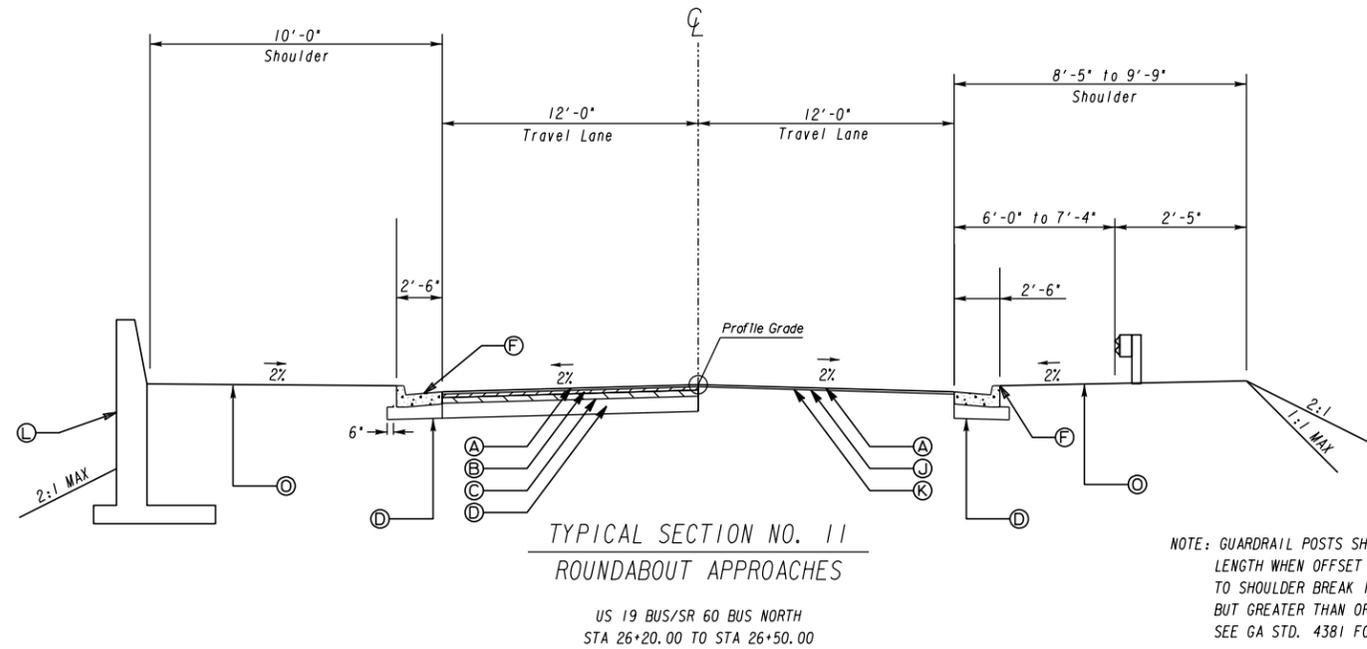
REVISION DATES

NO.	DATE	DESCRIPTION

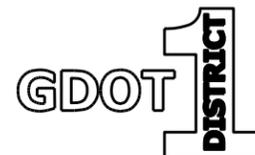
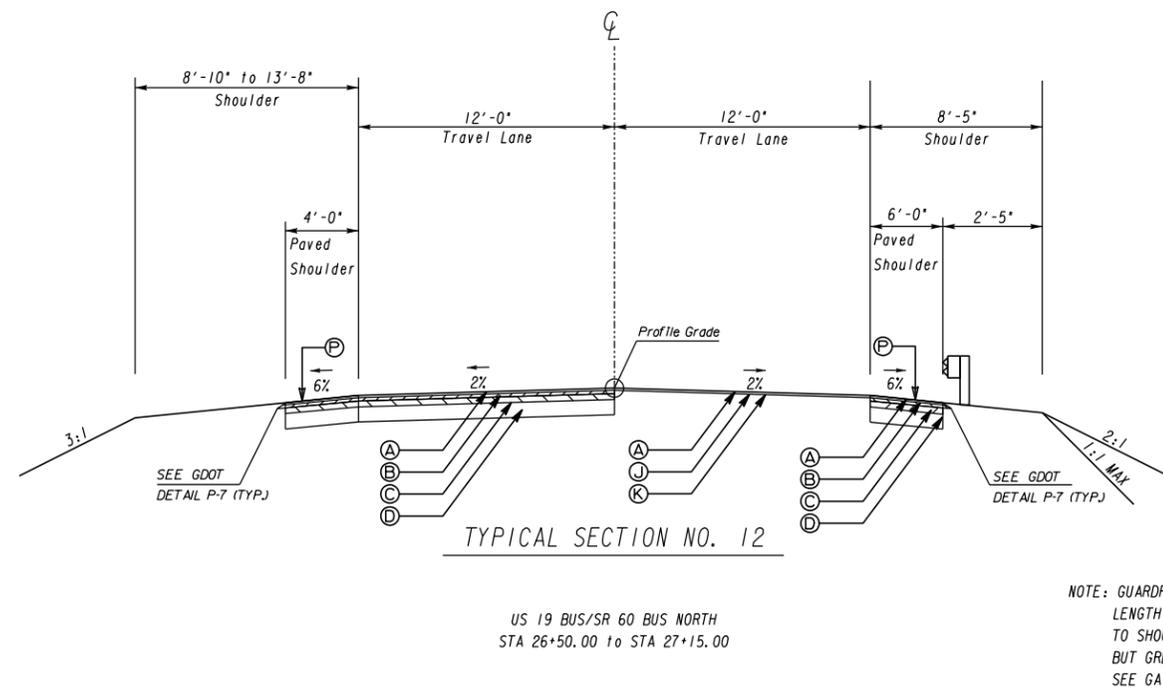
TYPICAL SECTIONS

US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PAVEMENT MATERIAL SCHEDULE	
A	RECYCLED ASPH CONC. 12.5 mm SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME, 165 LB/SY
B	RECYCLED ASPH CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 LB/SY
C	RECYCLED ASPH CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 550 LB/SY
D	GRADED AGGREGATE BASE, 12"
E	PLAIN PC CONC PVMT, CL HES CONC, 10" THK, STAMPED AND COLORED (FEDRAL CODE *31136)
F	8"X30" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 2
G	8"X32" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 9
H	PAVEMENT REINFORCED FABRIC STRIPS, TP 2, 18" WIDTH
I	CONCRETE DOWELED MEDIAN, 6" TP. 7 FACE
J	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME (AS REQ'D)
K	MILL ASPH CONC PVMT, VARIABLE DEPTH
L	CONCRETE SIDE BARRIER, TYPE 2-S - SEE PLANS FOR TYPE AND HEIGHT
M	CONCRETE SIDE BARRIER, TYPE 6-S - SEE PLANS FOR TYPE AND HEIGHT
N	4" CONC DITCH PAVING
O	SOD
P	SHOULDER RUMBLE STRIPS, SEE GDOT DETAILS T-23B & T-25
Q	EDGE LINE RUMBLE STRIPS, SEE GDOT DETAILS T-23A & T-25



N. T. S.

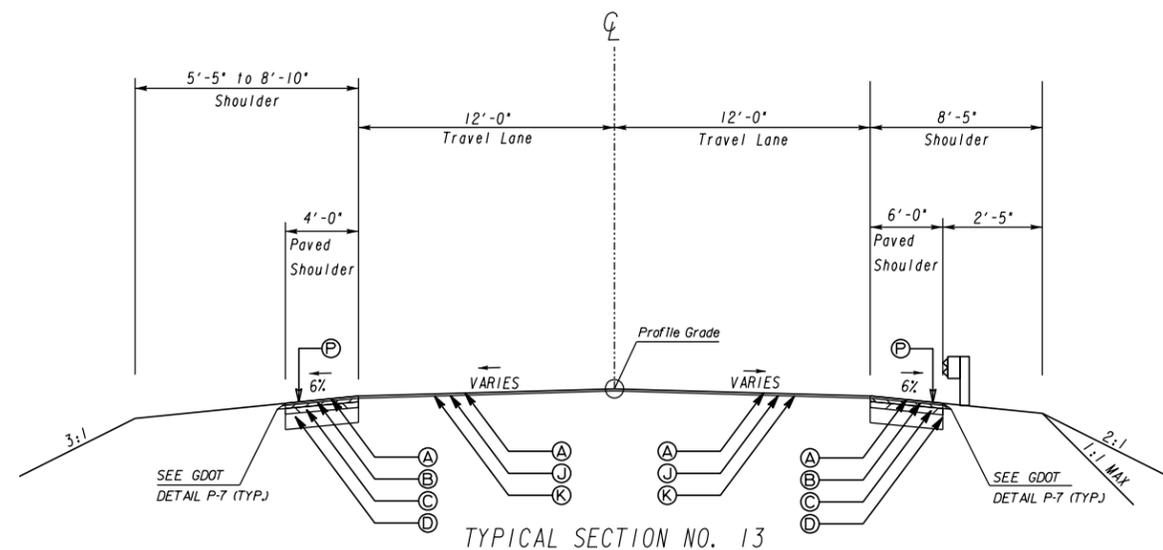
REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS

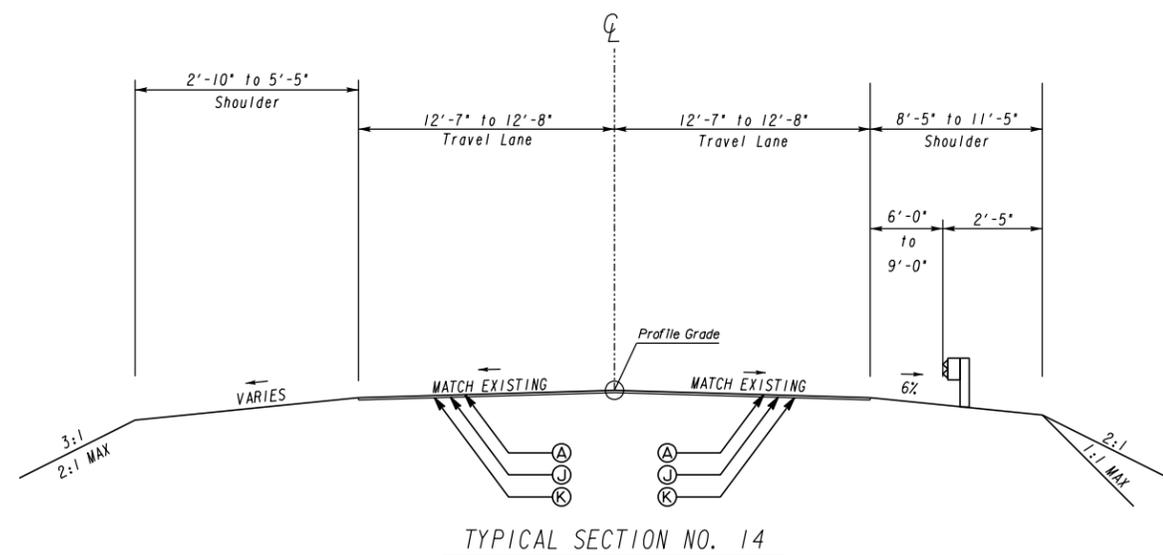
US 19 BUS/SR 60 BUS @ OAK GROVE RD
 LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0006
CORRECTED:	DATE:	
VERIFIED:	DATE:	



US 19 BUS/SR 60 BUS NORTH
STA 27+15.00 to STA 27+40.00

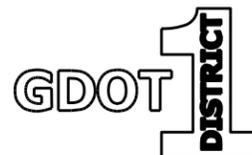
NOTE: GUARDRAIL POSTS SHALL BE 7 FT IN LENGTH WHEN OFFSET FROM BACK OF POST TO SHOULDER BREAK IS LESS THAN 2'-0" BUT GREATER THAN OR EQUAL TO 1'-0". SEE GA STD. 4381 FOR ADDITIONAL INFORMATION.



US 19 BUS/SR 60 BUS NORTH
STA 27+40.00 to STA 27+86.00

NOTE: GUARDRAIL POSTS SHALL BE 7 FT IN LENGTH WHEN OFFSET FROM BACK OF POST TO SHOULDER BREAK IS LESS THAN 2'-0" BUT GREATER THAN OR EQUAL TO 1'-0". SEE GA STD. 4381 FOR ADDITIONAL INFORMATION.

PAVEMENT MATERIAL SCHEDULE	
A	RECYCLED ASPH CONC. 12.5 mm SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME, 165 LB/SY
B	RECYCLED ASPH CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 LB/SY
C	RECYCLED ASPH CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 550 LB/SY
D	GRADED AGGREGATE BASE, 12"
E	PLAIN PC CONC PVMT, CL HES CONC, 10" THK, STAMPED AND COLORED (FEDRAL CODE *31136)
F	8"x30" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 2
G	8"x32" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 9
H	PAVEMENT REINFORCED FABRIC STRIPS, TP 2, 18" WIDTH
I	CONCRETE DOWELED MEDIAN, 6" TP, 7 FACE
J	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME (AS REQ'D)
K	MILL APSPH CONC PVMT, VARIABLE DEPTH
L	CONCRETE SIDE BARRIER, TYPE 2-S - SEE PLANS FOR TYPE AND HEIGHT
M	CONCRETE SIDE BARRIER, TYPE 6-S - SEE PLANS FOR TYPE AND HEIGHT
N	4" CONC DITCH PAVING
O	SOD
P	SHOULDER RUMBLE STRIPS, SEE GDOT DETAILS T-23B & T-25
Q	EDGE LINE RUMBLE STRIPS, SEE GDOT DETAILS T-23A & T-25



N. T. S.

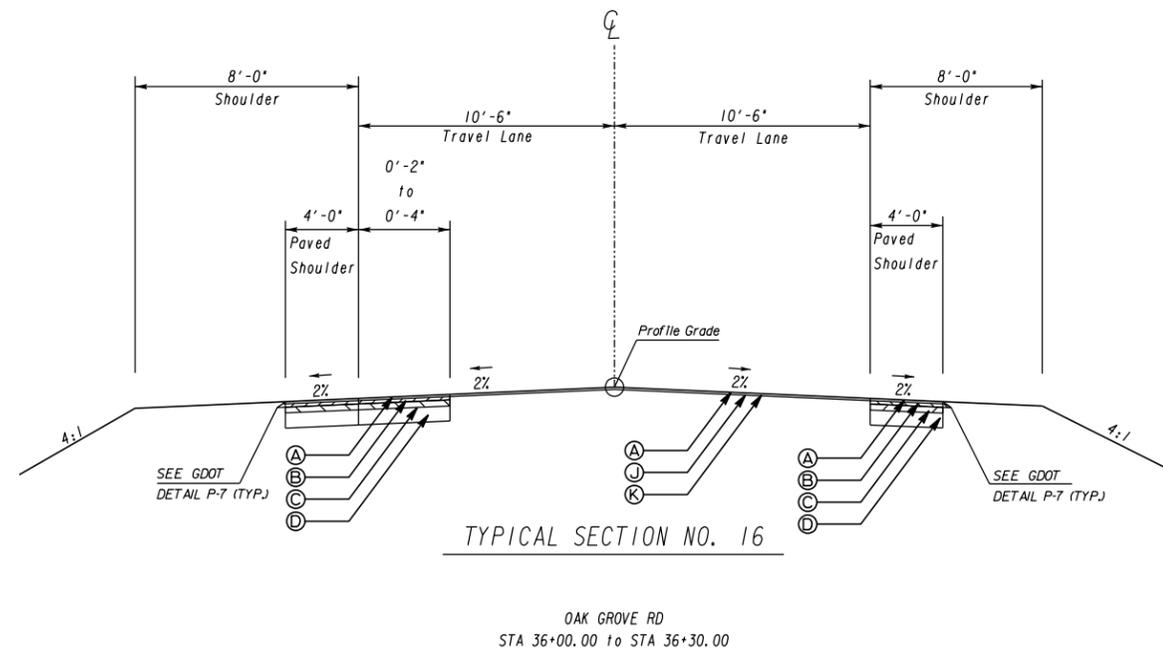
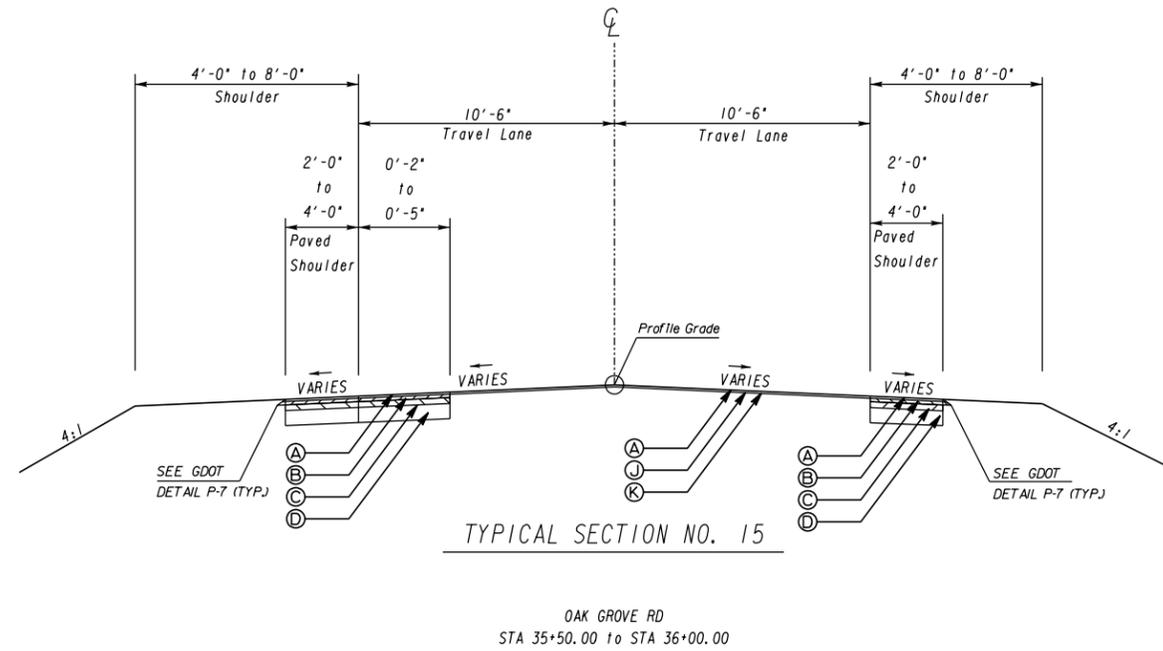
REVISION DATES

NO.	DATE	DESCRIPTION

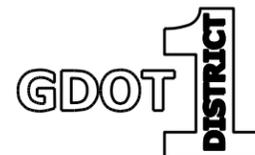
TYPICAL SECTIONS

US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0007
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PAVEMENT MATERIAL SCHEDULE	
A	RECYCLED ASPH CONC. 12.5 mm SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME, 165 LB/SY
B	RECYCLED ASPH CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 LB/SY
C	RECYCLED ASPH CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 550 LB/SY
D	GRADED AGGREGATE BASE, 12"
E	PLAIN PC CONC PVMT, CL HES CONC, 10" THK, STAMPED AND COLORED (FEDRAL CODE *31136)
F	8"x30" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 2
G	8"x32" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 9
H	PAVEMENT REINFORCED FABRIC STRIPS, TP 2, 18" WIDTH
I	CONCRETE DOWELED MEDIAN, 6" TP. 7 FACE
J	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME (AS REQ'D)
K	MILL ASPH CONC PVMT, VARIABLE DEPTH
L	CONCRETE SIDE BARRIER, TYPE 2-S - SEE PLANS FOR TYPE AND HEIGHT
M	CONCRETE SIDE BARRIER, TYPE 6-S - SEE PLANS FOR TYPE AND HEIGHT
N	4" CONC DITCH PAVING
O	SOD
P	SHOULDER RUMBLE STRIPS, SEE GDOT DETAILS T-23B & T-25
Q	EDGE LINE RUMBLE STRIPS, SEE GDOT DETAILS T-23A & T-25



N. T. S.

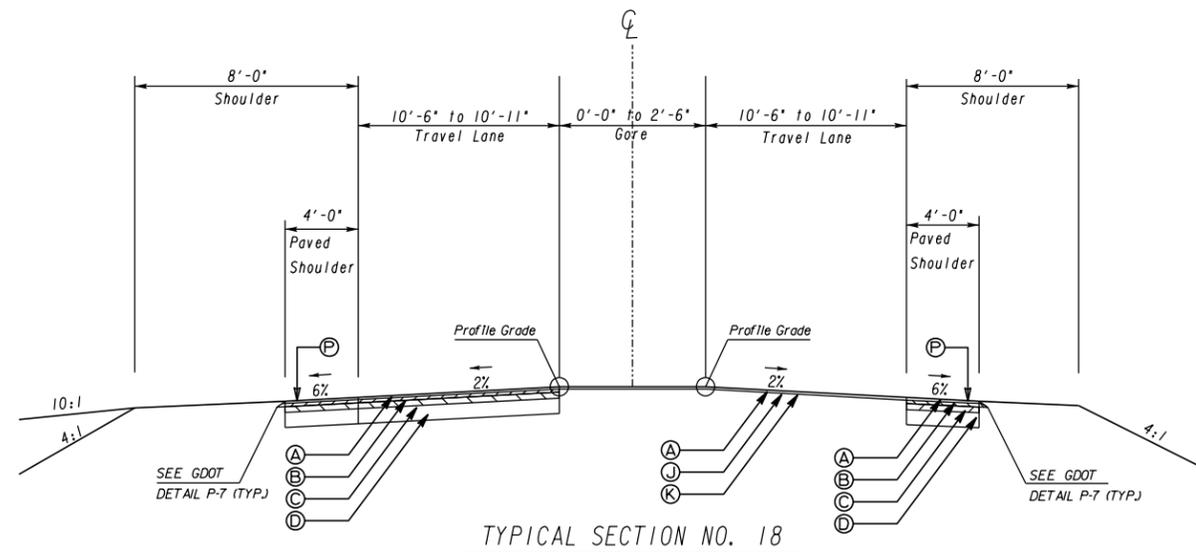
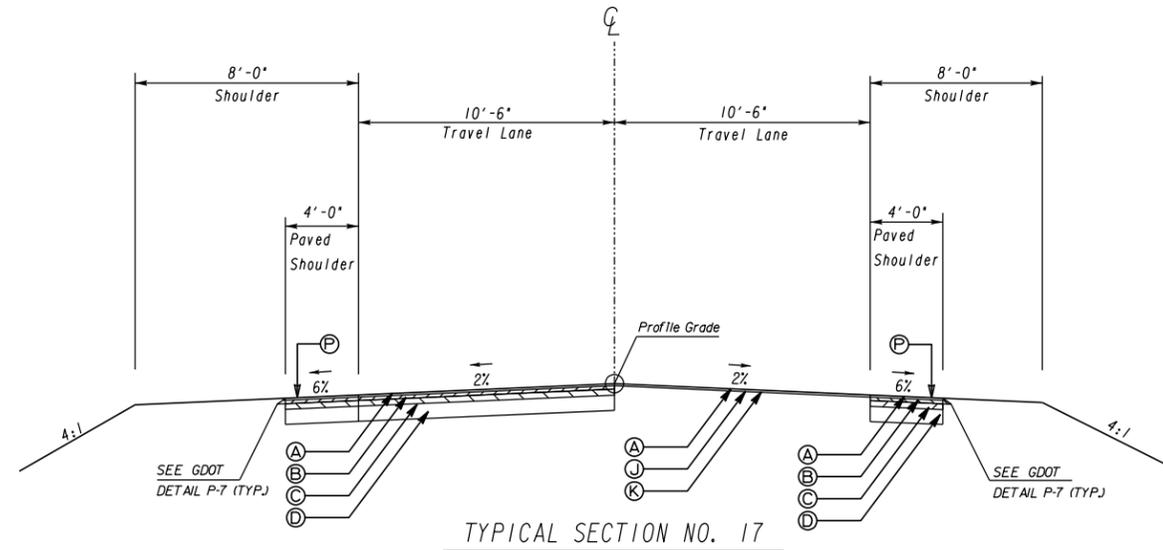
REVISION DATES

NO.	DATE	DESCRIPTION

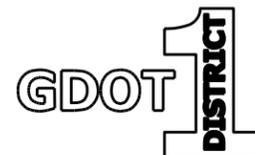
TYPICAL SECTIONS

US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0008
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PAVEMENT MATERIAL SCHEDULE	
A	RECYCLED ASPH CONC. 12.5 mm SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME, 165 LB/SY
B	RECYCLED ASPH CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 LB/SY
C	RECYCLED ASPH CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 550 LB/SY
D	GRADED AGGREGATE BASE, 12"
E	PLAIN PC CONC PVMT, CL HES CONC, 10" THK, STAMPED AND COLORED (FEDRAL CODE *31136)
F	8"x30" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 2
G	8"x32" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 9
H	PAVEMENT REINFORCED FABRIC STRIPS, TP 2, 18" WIDTH
I	CONCRETE DOWELED MEDIAN, 6" TP. 7 FACE
J	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME (AS REQ'D)
K	MILL ASPH CONC PVMT, VARIABLE DEPTH
L	CONCRETE SIDE BARRIER, TYPE 2-S - SEE PLANS FOR TYPE AND HEIGHT
M	CONCRETE SIDE BARRIER, TYPE 6-S - SEE PLANS FOR TYPE AND HEIGHT
N	4" CONC DITCH PAVING
O	SOD
P	SHOULDER RUMBLE STRIPS, SEE GDOT DETAILS T-23B & T-25
Q	EDGE LINE RUMBLE STRIPS, SEE GDOT DETAILS T-23A & T-25



N. T. S.

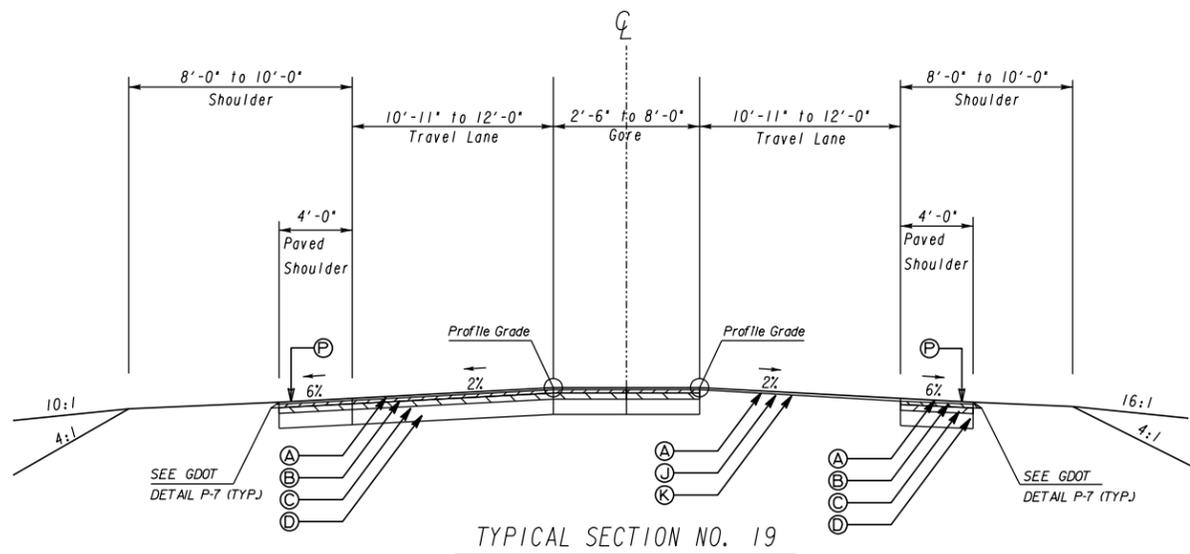
REVISION DATES

NO.	DATE	DESCRIPTION

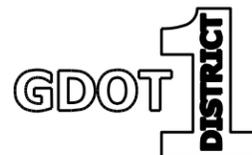
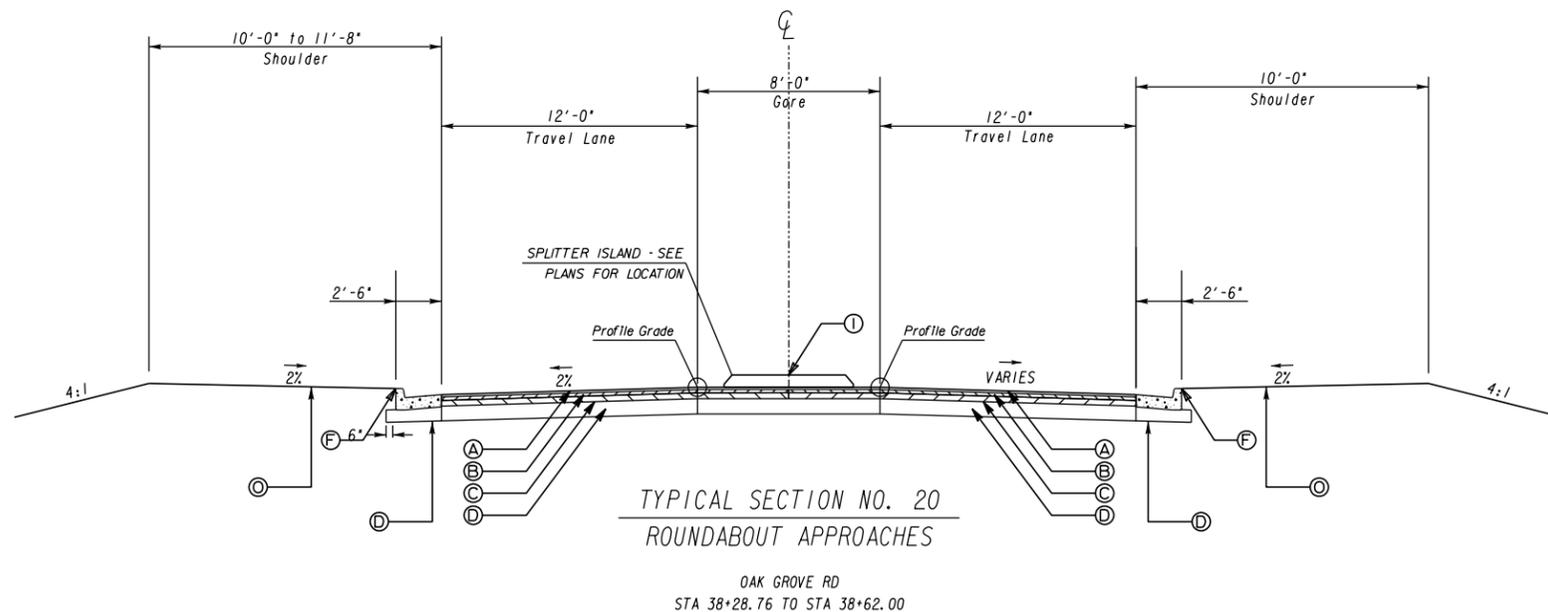
TYPICAL SECTIONS

US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0009
CORRECTED:	DATE:	
VERIFIED:	DATE:	



PAVEMENT MATERIAL SCHEDULE	
A	RECYCLED ASPH CONC. 12.5 mm SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME, 165 LB/SY
B	RECYCLED ASPH CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 LB/SY
C	RECYCLED ASPH CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 550 LB/SY
D	GRADED AGGREGATE BASE, 12"
E	PLAIN PC CONC PVMT, CL HES CONC, 10" THK, STAMPED AND COLORED (FEDRAL CODE *31136)
F	8"x30" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 2
G	8"x32" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 9
H	PAVEMENT REINFORCED FABRIC STRIPS, TP 2, 18" WIDTH
I	CONCRETE DOWELED MEDIAN, 6" TP. 7 FACE
J	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME (AS REQ'D)
K	MILL APSPH CONC PVMT, VARIABLE DEPTH
L	CONCRETE SIDE BARRIER, TYPE 2-S - SEE PLANS FOR TYPE AND HEIGHT
M	CONCRETE SIDE BARRIER, TYPE 6-S - SEE PLANS FOR TYPE AND HEIGHT
N	4" CONC DITCH PAVING
O	SOD
P	SHOULDER RUMBLE STRIPS, SEE GDOT DETAILS T-23B & T-25
Q	EDGE LINE RUMBLE STRIPS, SEE GDOT DETAILS T-23A & T-25



N. T. S.

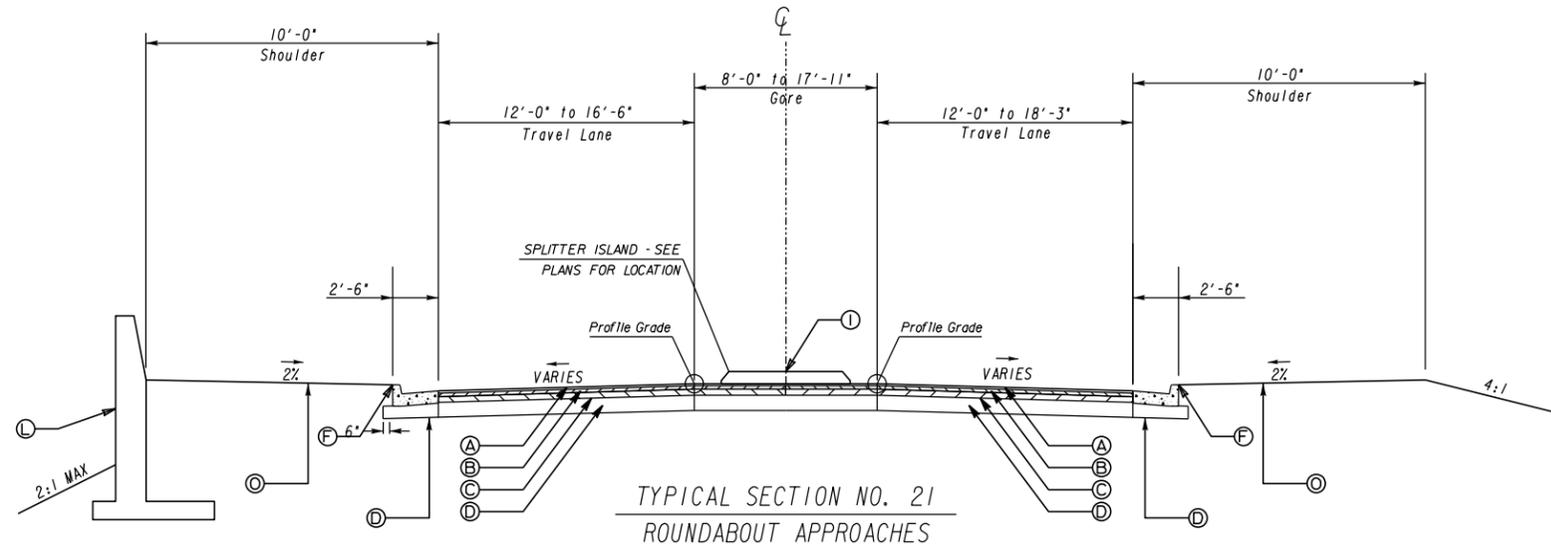
REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS

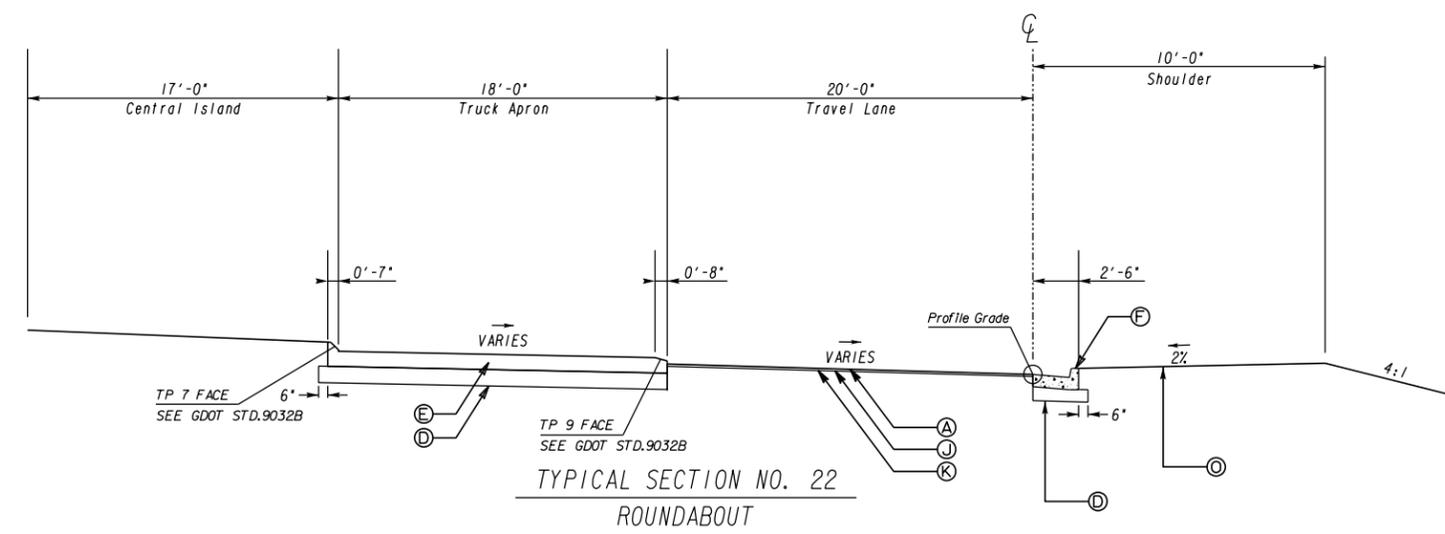
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0010
CORRECTED:	DATE:	
VERIFIED:	DATE:	



TYPICAL SECTION NO. 21
ROUNDBOUT APPROACHES

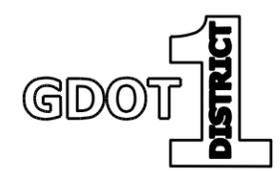
OAK GROVE RD
STA 38+62.00 TO STA 39+28.76



TYPICAL SECTION NO. 22
ROUNDBOUT

ROUNDBOUT
STA 70+00.00 TO STA 70+03.83
STA 73+34.27 TO STA 73+45.58

PAVEMENT MATERIAL SCHEDULE	
A	RECYCLED ASPH CONC. 12.5 mm SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME, 165 LB/SY
B	RECYCLED ASPH CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 LB/SY
C	RECYCLED ASPH CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 550 LB/SY
D	GRADED AGGREGATE BASE, 12"
E	PLAIN PC CONC PVMT, CL HES CONC, 10" THK, STAMPED AND COLORED (FEDRAL CODE *31136)
F	8"x30" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 2
G	8"x32" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 9
H	PAVEMENT REINFORCED FABRIC STRIPS, TP 2, 18" WIDTH
I	CONCRETE DOWELED MEDIAN, 6" TP. 7 FACE
J	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME (AS REQ'D)
K	MILL APH CONC PVMT, VARIABLE DEPTH
L	CONCRETE SIDE BARRIER, TYPE 2-S - SEE PLANS FOR TYPE AND HEIGHT
M	CONCRETE SIDE BARRIER, TYPE 6-S - SEE PLANS FOR TYPE AND HEIGHT
N	4" CONC DITCH PAVING
O	SOD
P	SHOULDER RUMBLE STRIPS, SEE GDOT DETAILS T-23B & T-25
Q	EDGE LINE RUMBLE STRIPS, SEE GDOT DETAILS T-23A & T-25



N. T. S.

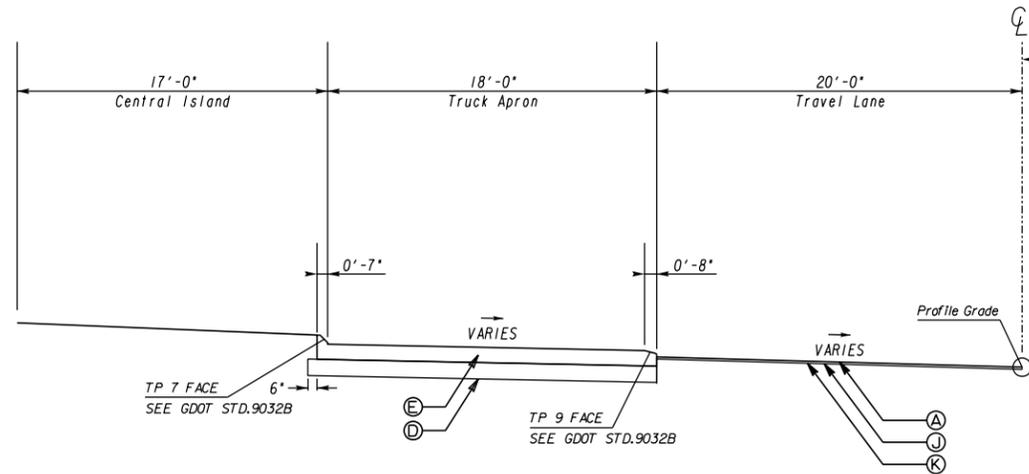
REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS

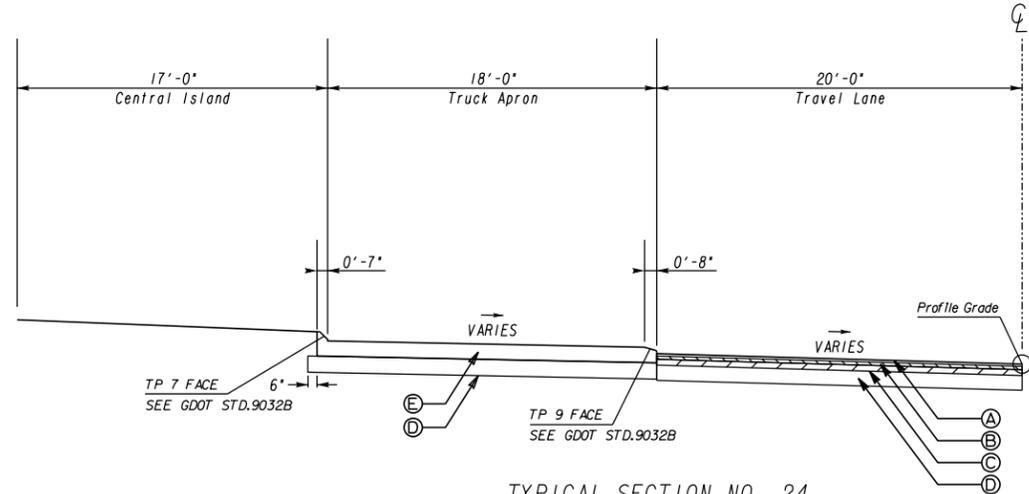
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0011
CORRECTED:	DATE:	
VERIFIED:	DATE:	



TYPICAL SECTION NO. 23
ROUNDAABOUT

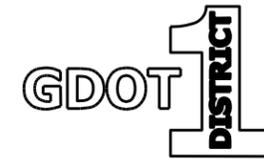
ROUNDAABOUT
STA 70+03.83 TO STA 70+85.00
STA 73+32.00 TO STA 73+34.27



TYPICAL SECTION NO. 24
ROUNDAABOUT

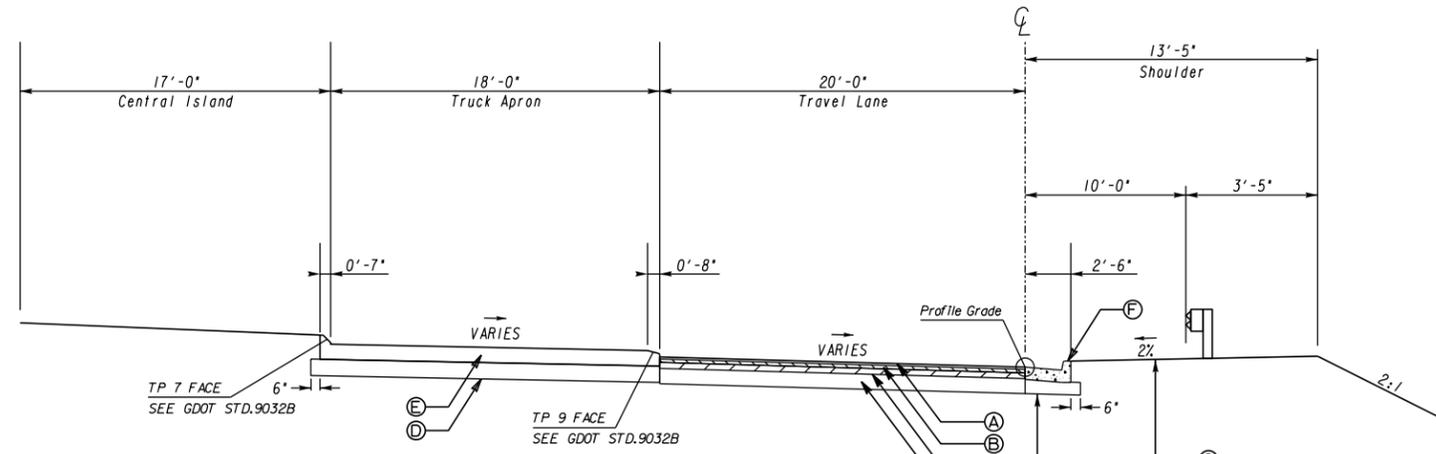
ROUNDAABOUT
STA 70+85.00 TO STA 70+99.63
STA 71+00.32 TO STA 71+97.43
STA 72+37.47 TO STA 73+32.00

PAVEMENT MATERIAL SCHEDULE	
A	RECYCLED ASPH CONC. 12.5 mm SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME, 165 LB/SY
B	RECYCLED ASPH CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 LB/SY
C	RECYCLED ASPH CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 550 LB/SY
D	GRADED AGGREGATE BASE, 12"
E	PLAIN PC CONC PVMT, CL HES CONC, 10" THK, STAMPED AND COLORED (FEDRAL CODE *31136)
F	8"x30" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 2
G	8"x32" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 9
H	PAVEMENT REINFORCED FABRIC STRIPS, TP 2, 18" WIDTH
I	CONCRETE DOWELED MEDIAN, 6" TP. 7 FACE
J	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME (AS REQ'D)
K	MILL ASPH CONC PVMT, VARIABLE DEPTH
L	CONCRETE SIDE BARRIER, TYPE 2-S - SEE PLANS FOR TYPE AND HEIGHT
M	CONCRETE SIDE BARRIER, TYPE 6-S - SEE PLANS FOR TYPE AND HEIGHT
N	4" CONC DITCH PAVING
O	SOD
P	SHOULDER RUMBLE STRIPS, SEE GDOT DETAILS T-23B & T-25
Q	EDGE LINE RUMBLE STRIPS, SEE GDOT DETAILS T-23A & T-25



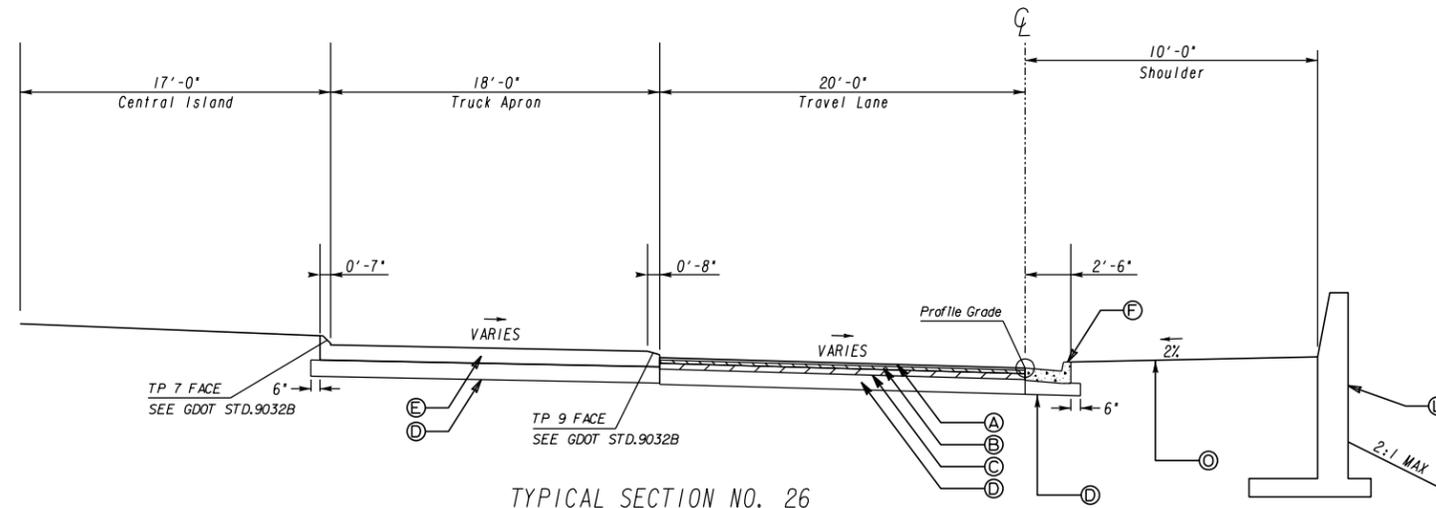
N. T. S.

REVISION DATES		TYPICAL SECTIONS	
		US 19 BUS/SR 60 BUS @ OAK GROVE RD LUMPKIN COUNTY	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	05-0012	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



TYPICAL SECTION NO. 25
ROUNDBABOUT

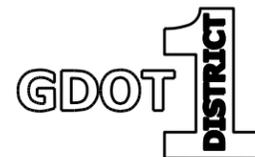
ROUNDBABOUT
STA 70+99.63 TO STA 71+00.32



TYPICAL SECTION NO. 26
ROUNDBABOUT

ROUNDBABOUT
STA 71+97.43 TO STA 72+37.47

PAVEMENT MATERIAL SCHEDULE	
A	RECYCLED ASPH CONC. 12.5 mm SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME, 165 LB/SY
B	RECYCLED ASPH CONC. 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 LB/SY
C	RECYCLED ASPH CONC. 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 550 LB/SY
D	GRADED AGGREGATE BASE, 12"
E	PLAIN PC CONC PVMT, CL HES CONC, 10" THK, STAMPED AND COLORED (FEDRAL CODE *31136)
F	8"X30" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 2
G	8"X32" CONC CURB AND GUTTER, GA. STD. 9032B, TYP 9
H	PAVEMENT REINFORCED FABRIC STRIPS, TP 2, 18" WIDTH
I	CONCRETE DOWELED MEDIAN, 6" TP. 7 FACE
J	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME (AS REQ'D)
K	MILL ASPH CONC PVMT, VARIABLE DEPTH
L	CONCRETE SIDE BARRIER, TYPE 2-S - SEE PLANS FOR TYPE AND HEIGHT
M	CONCRETE SIDE BARRIER, TYPE 6-S - SEE PLANS FOR TYPE AND HEIGHT
N	4" CONC DITCH PAVING
O	SOD
P	SHOULDER RUMBLE STRIPS, SEE GDOT DETAILS T-23B & T-25
Q	EDGE LINE RUMBLE STRIPS, SEE GDOT DETAILS T-23A & T-25



N. T. S.

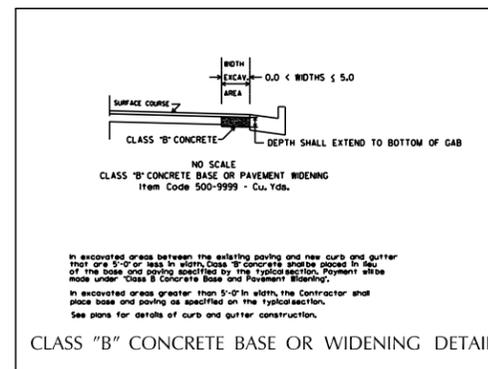
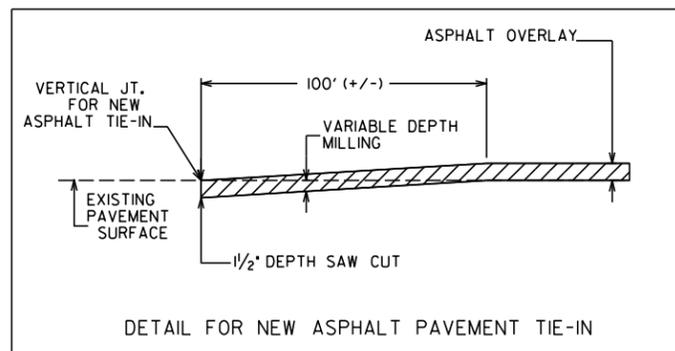
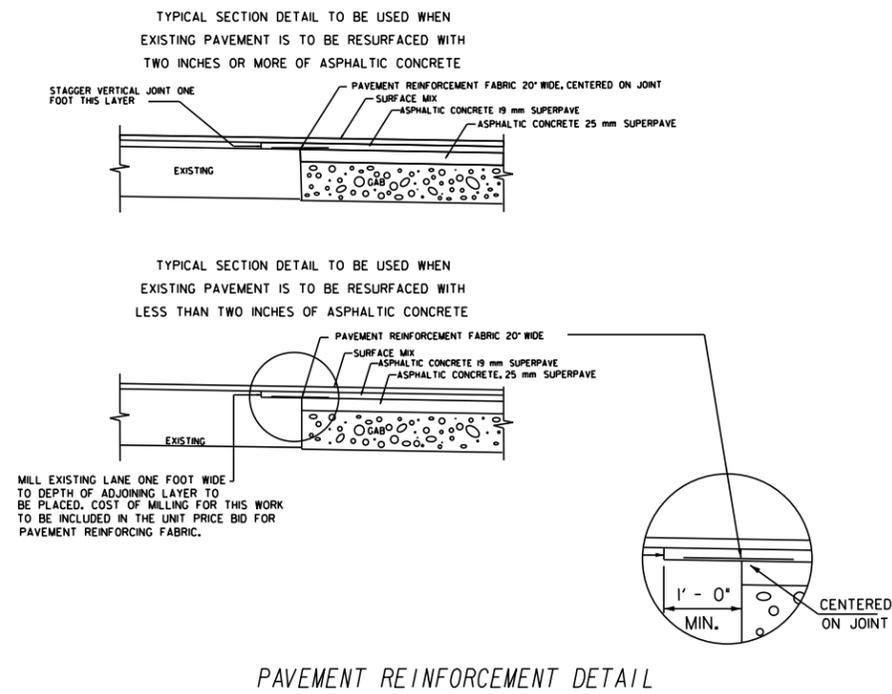
REVISION DATES

NO.	DATE	DESCRIPTION

TYPICAL SECTIONS

US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	05-0013
CORRECTED:	DATE:	
VERIFIED:	DATE:	



ALLOWABLE RANGES TABLE

FOR THIS PROJECT, CROSS SLOPES THAT ARE ADJUSTED TO "BEST FIT" EXISTING PAVEMENT SLOPES ARE SUBJECT TO THE FOLLOWING LIMITS:

A. NORMAL CROWN

SECTION WITH GRADES 0.5% OR GREATER	SECTION WITH GRADES LESS THAN 0.5%
0.0150 FT/FT - MINIMUM	0.0156 FT/FT - MINIMUM
0.0208 FT/FT - DESIRABLE	0.0208 FT/FT - DESIRABLE
0.0250 FT/FT - MAXIMUM	0.0300 FT/FT - MAXIMUM

B. SUPERELEVATION RATE

S.E. RATE SHOWN ON PLANS OR SE RATE EXISTING IN FIELD, WHICHEVER IS GREATER.

C. SUPERELEVATION TRANSITION LENGTH (LENGTH FROM FLAT POINT TO FULL SE)

RATE OF CHANGE	CORRESPONDING DIFFERENCE IN GRADE BETWEEN PIVOT POINT AND EDGE OF PAVEMENT
MINIMUM 1:150	0.67%
DESIRABLE 1:200	0.50%
MAXIMUM 1:300	0.33%

LENGTH SHALL BE SET TO AVOID CREATING A FLAT GUTTER GRADE ON LOW SIDE AND TO AVOID FLAT CROSS SLOPES AT OR NEAR THE LOW POINT OF VERTICAL CURVES.

D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES

50% OF TRANSITION INSIDE CURVE - MAXIMUM
33% OF TRANSITION INSIDE CURVE - DESIRABLE
20% OF TRANSITION INSIDE CURVE - MINIMUM

NOTE: CROWN WIPE-OUT SHALL BE AT THE SAME RATE AS THE SE TRANSITION.

E. SMOOTHING OF BREAKS IN EDGE PROFILE AT BEGIN AND END OF TRANSITION SHALL BE ACCOMPLISHED BY VERTICAL CURVE WITH A MINIMUM LENGTH (IN FEET) EQUAL TO THE SPEED DESIGN (IN MPH).

SLOPE : SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.

NOTE: FOR METHOD OF SUPERELEVATION SEE CONSTR PLAN & PROFILE SHEETS-CURVE DATA. LOCATIONS OF NORMAL CROWN & FULL S.E. NOTED ON CONSTR CENTERLINE.

★ SEE PLAN SHEETS.

SHOULDER MAY BE GRADED AWAY FROM ROADWAY TO FACILITATE THE SLOPE TIE TO EXISTING GROUND.

SEE ROADWAY PLANS FOR LOCATION OF GUARDRAIL.

SEE ROADWAY PLANS FOR LOCATION OF CURB AND GUTTER.

REVISION DATES		TYPICAL SECTIONS	
		US 19 BUS/SR 60 BUS @ OAK GROVE RD LUMPKIN COUNTY	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	05-0014	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

SUMMARY OF QUANTITIES

GRADING COMPLETE	
ITEM NO. 210-0100, LUMP SUM	1

TRAFFIC CONTROL	
ITEM NO. 150-1000, LUMP SUM	1

PVMT REINF FAB STRIPS, TP 2, 18"	
ITEM NO. 446-1100	852 LF

GPS DATA COLLECTION AND SUBMITTAL	
ITEM NO. 156-0100, LUMP SUM	1

RIGHT-OF-WAY MARKERS*	
ITEM NO. 634-1200	23 EACH
<small>* GA STD 9003</small>	

4" CONCRETE DITCH PAVING			
DESCRIPTION	LOCATION	SIDE	SY
SR 60 S - SE LEG	15+48.09 - 18+06.95	RT	59
ITEM NO. 441-0204 TOTAL			59

SUMMARY OF DRIVEWAY QUANTITIES					
<small>* NOTE: FOR INFORMATION ONLY. SEE SURFACING QUANTITIES BLOCK.</small>					
LOCATION	WIDTH	LENGTH	12.5 MM SUPERPAVE	6 IN GAB	6" CONC DWY
STATION & SIDE	FT	FT	TN	TN	SY
OAK GROVE RD - WEST LEG					
STA 36+01.59 RT	22	20.5	5	18	-
STA 36+72.89 LT	14	24.13	4	17	-
STA 37+50.00 LT	14	35.78	5	21	-
TOTAL			14	56	-

CONC SIDEWALK, 8 IN GA. DET. A-3			
DESCRIPTION	LOCATION	SIDE	SY
OAK GROVE RD - WEST LEG			
TYPE B RAMP	38+93 - 39+09	RT	27
TYPE B RAMP	38+95 - 39+12	LT	
ITEM NO. 441-0108 TOTAL			27

CONC MED (DOWELED) 6 IN, TYPE 7 - STD. 9032B				
DESCRIPTION	LOCATION	SIDE	SY	
US 19 BUS/SR 60 BUS SOUTH - S LEG	15+55.22 - 16+30.23	CTR	53	
US 19 BUS/SR 60 BUS NORTH - N LEG	25+55.06 - 25+68.89	CTR	10	
OAK GROVE ROAD - W LEG	38+28.76 - 39+01.88	CTR	38	
	39+09.88 - 39+28.75	CTR	21	
ITEM NO. 441-0748 TOTAL			122	

SIDE BARRIER	LF	PAY ITEM NO.
CONCRETE SIDE BARRIER, TP 2-S	42	621-6200
CONCRETE SIDE BARRIER, TP 2-SA	50	621-6201
CONCRETE SIDE BARRIER, TP 2-SB	23	621-6202
CONCRETE SIDE BARRIER, TP 2-SC	134	621-6203
CONCRETE SIDE BARRIER, TP 6-S	66	621-6210
CONCRETE SIDE BARRIER, TP 6-SA	32	621-6211
CONCRETE SIDE BARRIER, TP 6-SB	39	621-6212
CONCRETE SIDE BARRIER, TP 6-SC	125	621-6213

CONC CURB & GUTTER, 8 IN x 32 IN TYPE 9 - STD. 9032-B			
DESCRIPTION	LOCATION	SIDE	LF
SR 60 N - NORTH LEG	25+49.0 - 26+20.00	LT	82
ITEM NO. 441-6745 TOTAL			82

CONC CURB & GUTTER, 8 IN x 30 IN TYPE 2 - STD. 9032-B			
DESCRIPTION	LOCATION	SIDE	LF
SR 60 S - S LEG			
	15+06.1 - 16+64.2	RT	254
	15+44.8 - 16+30.2	LT	
SR 60 N - N LEG			
	25+21.7 - 26+50.0	RT	184
	25+34.1 - 25+49.0	LT	
	26+20.0 - 26+50.0	LT	
OAK GROVE RD - W LEG			
	38+28.8 - 39+37.3	RT	276
	38+28.8 - 39+84.0	LT	
ITEM NO. 441-6222 TOTAL			714

SURFACING QUANTITIES

ITEMS	UNIT	PAY ITEM NO.	ROUND-ABOUT	SOUTH LEG			NORTH LEG			DRIVEWAYS	TOTAL
				US 19 BUS/SR 60 BUS SOUTH	US 19 BUS/SR 60 BUS SOUTH	US 19 BUS/SR 60 BUS SOUTH	US 19 BUS/SR 60 BUS NORTH	US 19 BUS/SR 60 BUS NORTH	US 19 BUS/SR 60 BUS NORTH		
RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME (1165 LB/SY)	TN	402-4510	64	101	64	98	14	341			
RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2 ONLY, INCL BITUM MATL & H LIME (220 LB/SY)	TN	402-3190	54	105	48	83	-	290			
RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2 ONLY, INCL BITUM MATL & H LIME (550 LB/SY)	TN	402-3121	135	262	121	208	-	726			
TACK COAT	GL	413-0750	135	245	127	208	-	715			
GRADED AGGREGATE BASE COURSE, INCLUDING MATERIAL	TN	310-1101	386	686	339	554	56	2021			
RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	TN	402-1812	27	196	21	3	-	247			
CLASS B CONCRETE, BASE OR PAVEMENT WIDENING	CY	500-9999	-	-	-	51	-	51			
PLAIN PC CONC PVMT, CL HES CONC, 10" THK, STAMPED AND COLORED (FEDRAL CODE *31136)	SY	439-0052	334	-	22	-	-	356			
MILL APSPH CONC PVMT, VARIABLE DEPTH	SY	432-5010	279	269	337	437	-	1322			



REVISION DATES

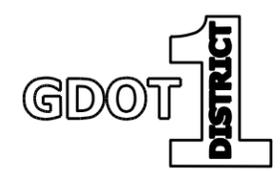
SUMMARY QUANTITIES

US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	06-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	

SUMMARY OF QUANTITIES

DRAINAGE SUMMARY																			
STRUCTURE NO.	LOCATION	OFFSET	SKEW	CLASS A	CLASS B	STORM DRAIN PIPE, 18 IN, H 1-10	STORM DRAIN PIPE, 18 IN, H 10-15	CATCH	CATCH	CATCH BASIN, GP 1, ADDL DEPTH	DROP INLET, GP 1	DROP INLET, GP 1	DROP INLET, GP 1, ADDL DEPTH	STORM	STORM	STORM	OUTLET PROTECTION		
				CONCRETE, INCL REINF STEEL	CONCRETE, INCL REINF STEEL			BASIN, GP 1	BASIN, GP 1					SEWER MANHOLE, TP 1	SEWER MANHOLE, TP 1, ADDL DEPTH, CL 1	SEWER MANHOLE, TP 1, ADDL DEPTH, CL 2	STN DUMPED RIP RAP, TP 1, 36 IN	STN DUMPED RIP RAP, TP 3, 18 IN	PLASTIC FILTER FABRIC
				GA STD 1125	GA STD 1001B			GA STD 1033D	GA STD 1034D					GA STD 1011A					
				500-3800	500-3900			550-1180	550-1181					668-1100	668-1100	668-1110	668-2100	668-2100	668-2110
				GA STD 1125	GA STD 1001B	550-1180	550-1181	GA STD 1033D	GA STD 1034D	668-1110	GA DET D-4	GA STD 1019B	668-2110	GA STD 1011A	668-4311	668-4312	603-2036	603-2181	603-7000
				CY	CY	LF	LF	EA	EA	LF	EA	EA	LF	EA	LF	LF	SY	SY	SY
Oak Grove - West Leg																			
A-0	39+39	78.94 LT	-	1.16	-	-	-	-	-	-	-	-	-	-	-	-	-	14	14
A-1	39+44	55.50 LT	-	-	-	-	22	-	-	-	-	-	-	1	-	8.93	-	-	-
A-2	38+62	42.67 LT	-	-	-	-	76	-	-	-	-	-	-	1	-	9	-	-	-
A-3	38+36	20.18 LT	-	-	-	30	-	1	-	5.53	-	-	-	-	-	-	-	-	-
A-4	38+36	20.16 RT	-	-	-	37	-	1	-	4.78	-	-	-	-	-	-	-	-	-
A-5	39+12	23.99 RT	-	-	-	74	-	-	-	-	-	1	6.11	-	-	-	-	-	-
A-6	72+45	1.62 RT	-	-	-	68	-	-	-	-	-	1	3.55	-	-	-	-	-	-
US 19 BUS/SR 60 BUS - North Leg																			
A-7	72+25	4.67 RT	-	-	-	18	-	-	1	3.56	-	-	-	-	-	-	-	-	-
A-8	72+05	1.00 RT	-	-	-	18	-	-	-	-	-	1	3.03	-	-	-	-	-	-
A-9	25+76	11.67 LT	-	-	-	51	-	-	-	-	-	-	-	1	3.05	-	-	-	-
A-10	26+42	16.17 LT	-	-	-	62	-	1	-	0.49	-	-	-	-	-	-	-	-	-
A-11	26+42	16.17 RT	-	-	-	29	-	1	-	-	-	-	-	-	-	-	-	-	-
US 19 BUS/SR 60 BUS - South Leg																			
A-12	15+58	23.26 RT	-	-	-	86	-	-	-	-	-	1	0.63	-	-	-	-	-	-
A-13	15+58	33.18 LT	-	-	-	54	-	-	-	-	-	1	-	-	-	-	-	-	-
A-14	16+20	20.48 RT	-	-	-	57	-	1	-	-	-	-	-	-	-	-	-	-	-
A-15	15+46	45.94 RT	-	-	-	70	-	-	-	-	1	-	-	-	-	-	-	-	-
B-0	18+10	17.22 LT	-	-	0.86	-	-	-	-	-	-	-	-	-	-	-	-	9	9
B-1	18+10	17.39 RT	-	-	-	34	-	-	-	-	1	-	-	-	-	-	-	-	-
SUBTOTALS				1.16	0.86	688	98	5	1	14.36	2	5	13.32	3	3.05	17.93	0	23	23
TOTALS				2	1	688	98	5	1	15	2	5	14	3	4	18	0	23	23



REVISION DATES

SUMMARY QUANTITIES			
US 19 BUS/SR 60 BUS @ OAK GROVE RD			
LUMPKIN COUNTY			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	06-0002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

SUMMARY OF QUANTITIES

PAVEMENT MARKINGS							
PAY ITEM NO.	DESCRIPTION	UNIT	ROUND-ABOUT	US 19 BUS/SR 60 BUS N NORTH LEG	US 19 BUS/SR 60 BUS S SOUTH LEG	OAK GROVE ROAD WEST LEG	TOTAL
429-1000	RUMBLE STRIPS (THERMOPLASTIC)	EA	-	3	3	3	9
653-0296	THERMOPLASTIC PVMT MARKING, WORD, TP 15	EA	-	1	1	1	3
653-1501	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	LF	56	549	776	848	2229
653-1502	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	LF	-	456	683	755	1894
653-1804	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	LF	-	0	0	155	155
653-4830	THERMOPLASTIC SKIP TRAF STRIPE, 18 IN, WHITE	GLF	-	38	37	37	112

RAISED PAVEMENT MARKERS			
LOCATION	REFLECTIVE-RAISED		CHANNEL MARKER
	YELLOW	CLEAR/RED	WHITE
	TYPE 1	TYPE 3	TYPE 10
	654-1001	654-1003	654-1010
THRU LANES	-	-	-
TURN BAYS	-	-	-
SOLID DOUBLE YELLOW	24	-	-
AROUND HATCHING	16	-	-
TOTAL	40	0	0

THERMOPLASTIC TRAFFIC STRIPING FOR PAVEMENT HATCHING				
LOCATION	SIDE	DETAIL	WHITE (SY)	YELLOW (SY)
			653-6004	653-6006
			US 19 BUS/SR 60 BUS N. NORTH LEG	CTR
US 19 BUS/SR 60 BUS N. SOUTHEAST LEG	CTR	A	-	78
OAK GROVE ROAD SOUTHWEST LEG	CTR	A	-	51
TOTALS			0	137

GUARDRAIL, 31 INCH HEIGHT				GUARDRAIL ANCHORS	
TYPE		W-BEAM	T-BEAM	TP-1	TP-8
ITEM NO		641-1200	641-1100	641-5001	641-5008
BEGIN STA	END STA	LF	LF	EA	EA
19+40.00	27+70.00	653	-	1.00	1
19+31.30	18+06.95	106	21	-	1
TOTALS		759	21	1	2

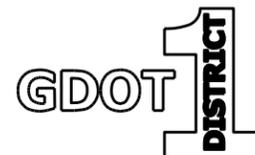
ATTENUATORS			
STATION	ITEM NO	DESCRIPTION	EA
15+44.95 RT	648-1550	IMPACT ATTENUATOR UNIT, TYPE S-3-S-14	1
26+50.00 LT	648-1550	IMPACT ATTENUATOR UNIT, TYPE S-3-B-14	1

LANDSCAPING			
ITEM NO	DESCRIPTION	EA	SY
702-0212	CRATAEGUS VIRIDIS - WINTER KING HAWTHORN	EA	3
702-0470	ILEX VOMITORIA NANA - DWARF YAUPON HOLLY	EA	63
702-9005	SPRING APPLICATION FERTILIZER	LB	71
702-9025	LANDSCAPE MULCH	SY	46

CONTRACT UTILITY RELOCATIONS	
ITEM NO. 001-5000	1 LS

LIGHTING SYSTEM	
ITEM NO. 682-9030	1 LS

EROSION CONTROL	
ITEM NO. 163-0001	1 LS

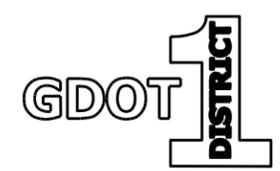


REVISION DATES	

SUMMARY QUANTITIES			
US 19 BUS/SR 60 BUS @ OAK GROVE RD LUMPKIN COUNTY			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	06-0003	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

SUMMARY OF QUANTITIES

Station	Install No.	Sign Code	Highway Signs (Reflective Sheeting Type IX)						Highway Signs (Reflective Sheeting Type XI)						Galvanized Steel Posts									Ground-mounted Breakaway Sign Support Item No. 636-3010 (Each)	
			TP 1 Matl, Refl Sheeting TP 9 Item No. 636-1033			TP 2 Matl, Refl Sheeting TP 9 Item No. 636-1041			TP 1 Matl, Refl Sheeting TP 11 Item No. 636-1036			TP 2 Matl, Refl Sheeting TP 11 Item No. 636-1045			Type 7 Item No. 636-2070			Type 8 Item No. 636-2080			Type 9 Item No. 636-2090				
			Size	Each	SQ FT	Size	Each	SQ FT	Size	Each	SQ FT	Size	Each	SQ FT	Length (ft)	Quantity	Total Length	Length (ft)	Quantity	Total Length	Length (ft)	Quantity	Total Length		
Roundabout																									
15+14 LT		R6-4B				60"x24"	1	10								12	2	24							
25+14 LT		R6-4B				60"x24"	1	10								12	2	24							
39+72 LT		R6-4B				60"x24"	1	10								12	2	24							
Southeast Leg																									
15+57 LT		R1-2							36"x36"x36"	1	4.5					13	1	13							
15+60 CTR		R1-2							36"x36"x36"	1	4.5					13	1	13							
15+60 CTR		M3-3	24"x12"	1	2													14.25	1	14.25					1
		M1-4	24"x24"	1	4													-	-	-					
		M1-5	24"x24"	1	4													-	-	-					
		M6-2R	21"x15"	1	2.19													-	-	-					
16+10 RT		M3-3	24"x12"	1	2																	13	1	13	
		M1-4	24"x24"	1	4																	-	-	-	
		M1-5	24"x24"	1	4																	-	-	-	
16+20 CTR		R4-7	24"x30"	1	5										12.5	1	12.5								
16+54 RT		D1-1							54"x18"	1	6.75				11.5	2	23								
17+29 RT		W2-6							36"x36"	1	9				14.5	2	29								
		W13-1P							18"x18"	1	2.25				-	-	-								
18+25 RT		R2-1	24"x30"	1	5										12.5	1	12.5								
North Leg																									
25+59 LT		R1-2							36"x36"x36"	1	4.5				13	1	13								
25+59 CTR		M3-1	24"x12"	1	2													14.25	1	14.25					1
		M1-4	24"x24"	1	4													-	-	-					
		M1-5	24"x24"	1	4													-	-	-					
		M6-2R	21"x15"	1	2.19													-	-	-					
25+61 CTR		R1-2							36"x36"x36"	1	4.5				13	1	13								
26+56 LT		D1-1										66"x24"	1	11									12	2	24
26+75 RT		M3-1	24"x12"	1	2																	13	1	13	
		M1-4	24"x24"	1	4																	-	-	-	
		M1-5	24"x23"	1	3.84																	-	-	-	
27+31 LT		W2-6							36"x36"	1	9				14.5	2	29								
		W13-1P							18"x18"	1	2.25				-	-	-								
27+75 RT		R2-1	24"x30"	1	5										12.5	1	12.5								
Subtotal 1																									
	-	-	-	17	59.22	-	3	30	-	9	47.25	-	1	11	-	19	242.5	-	2	28.5	-	4	50	2	



REVISION DATES

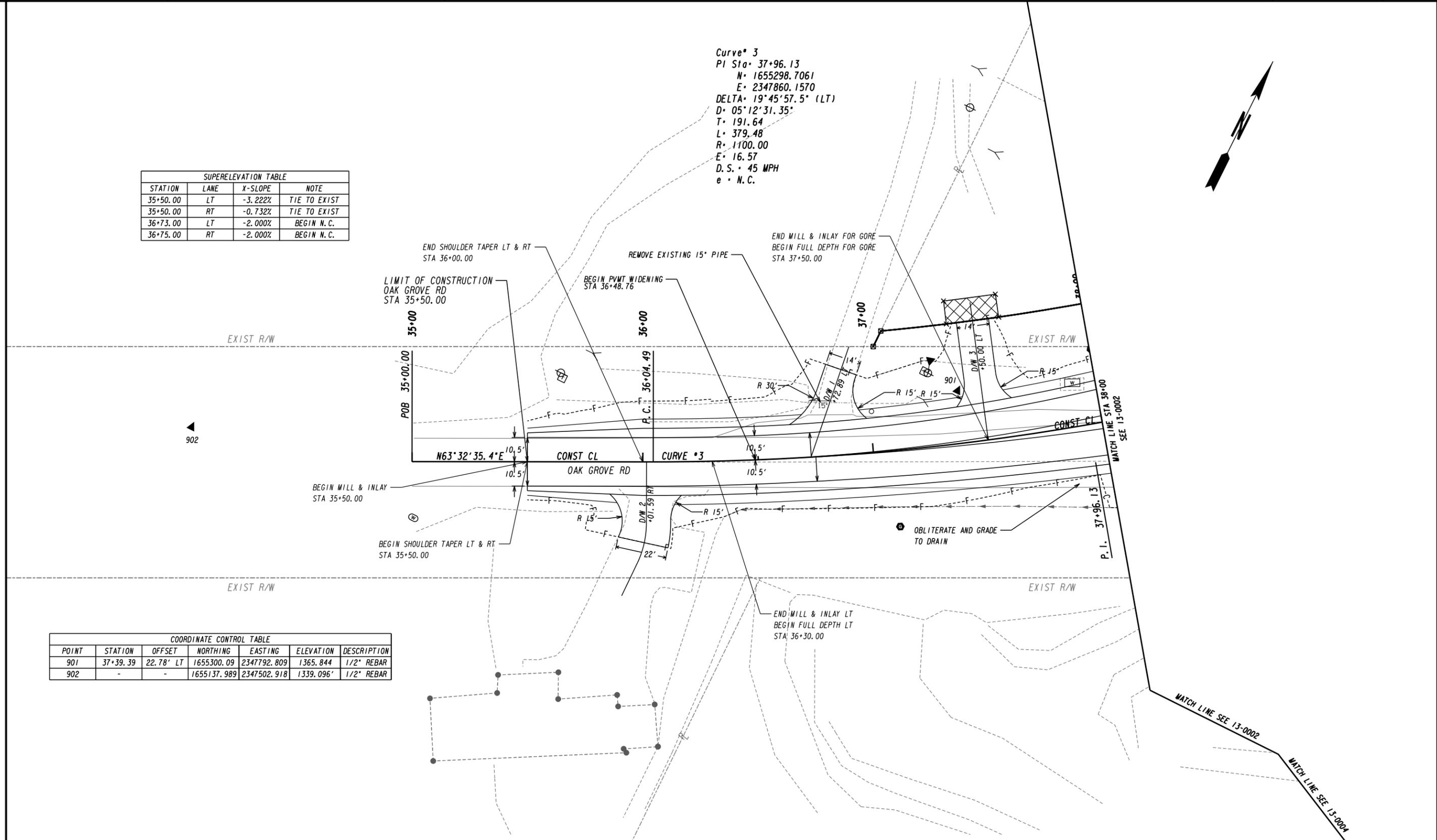
SUMMARY QUANTITIES			
US 19 BUS/SR 60 BUS @ OAK GROVE RD			
LUMPKIN COUNTY			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	06-0004	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

STATION	LANE	X-SLOPE	NOTE
35+50.00	LT	-3.222%	TIE TO EXIST
35+50.00	RT	-0.732%	TIE TO EXIST
36+73.00	LT	-2.000%	BEGIN N.C.
36+75.00	RT	-2.000%	BEGIN N.C.

Curve # 3
 PI Sta 37+96.13
 N = 1655298.7061
 E = 2347860.1570
 DELTA = 19° 45' 57.5" (LT)
 D = 05° 12' 31.35"
 T = 191.64
 L = 379.48
 R = 1100.00
 E = 16.57
 D.S. = 45 MPH
 e = N.C.



902



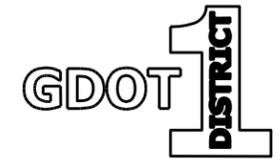
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION	DESCRIPTION
901	37+39.39	22.78' LT	1655300.09	2347792.809	1365.844	1/2" REBAR
902	-	-	1655137.989	2347502.918	1339.096'	1/2" REBAR

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

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



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



DATE	DESCRIPTION
04/20/2021	

CONSTRUCTION PLAN
 US 19 BUS/SR 60 BUS @ OAK GROVE RD
 LUMPKIN COUNTY

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

SUPERELEVATION TABLE - US 19 BUS/SR 60 BUS NORTH

STATION	LANE	X-SLOPE	NOTE
25+50.72	RT	-2.000%	BEGIN N.C.
25+55.50	LT	-2.000%	BEGIN N.C.

SUPERELEVATION TABLE - OAK GROVE RD

STATION	LANE	X-SLOPE	NOTE
38+28.76	RT	-2.000%	END N.C.
38+80.21	RT	0.000%	ZERO SUPER
39+12.00	LT	-2.000%	END N.C.
39+29.76	RT	+1.341%	-
39+34.70	LT	-3.495%	-

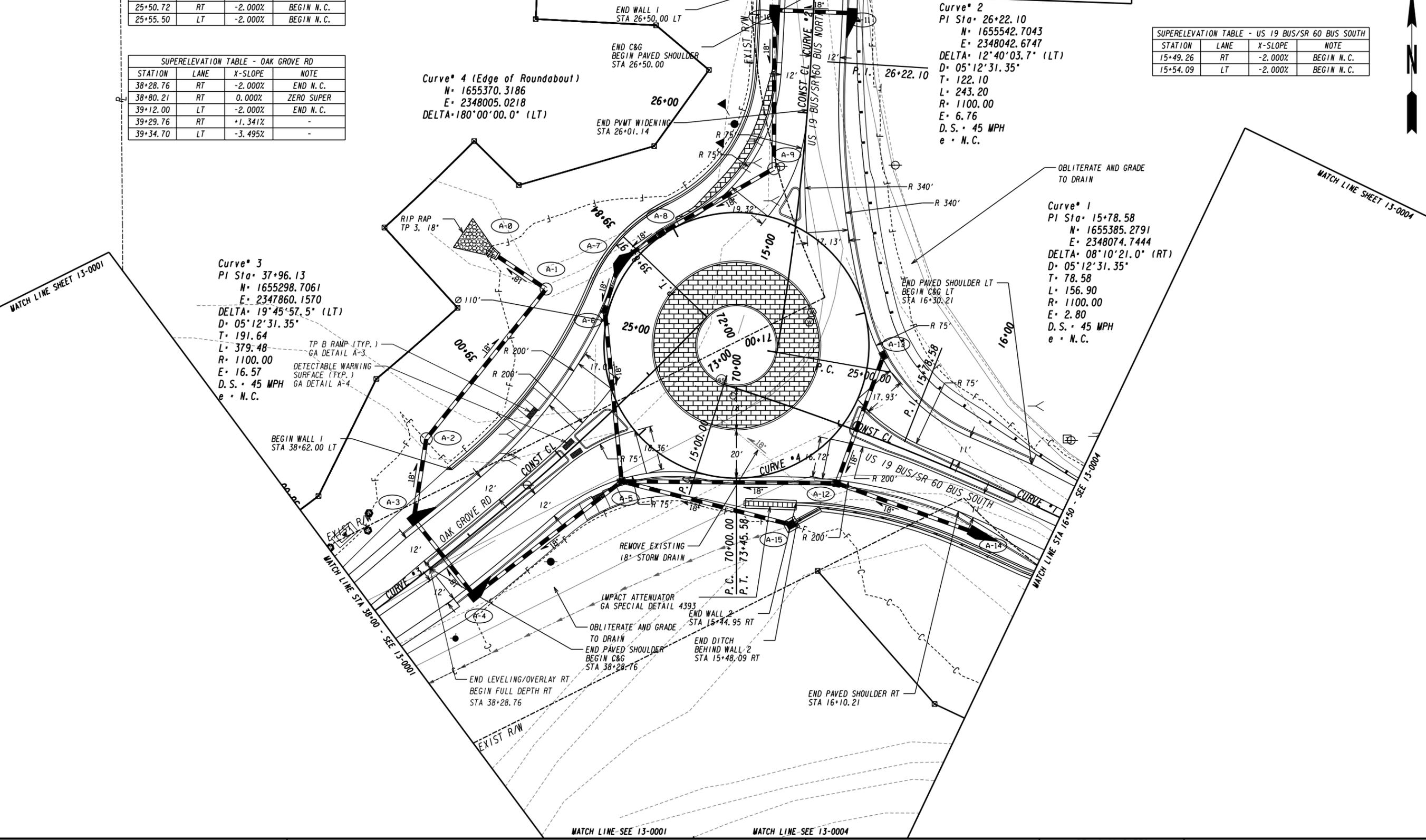
SUPERELEVATION TABLE - US 19 BUS/SR 60 BUS SOUTH

STATION	LANE	X-SLOPE	NOTE
15+49.26	RT	-2.000%	BEGIN N.C.
15+54.09	LT	-2.000%	BEGIN N.C.

MATCH LINE SHEET 13-0001

MATCH LINE STA 26+50 - SHEET 13-0003

MATCH LINE SHEET 13-0004

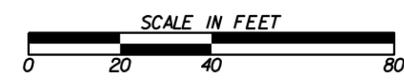
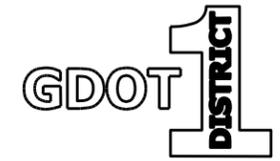


PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES

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

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REVISION DATES

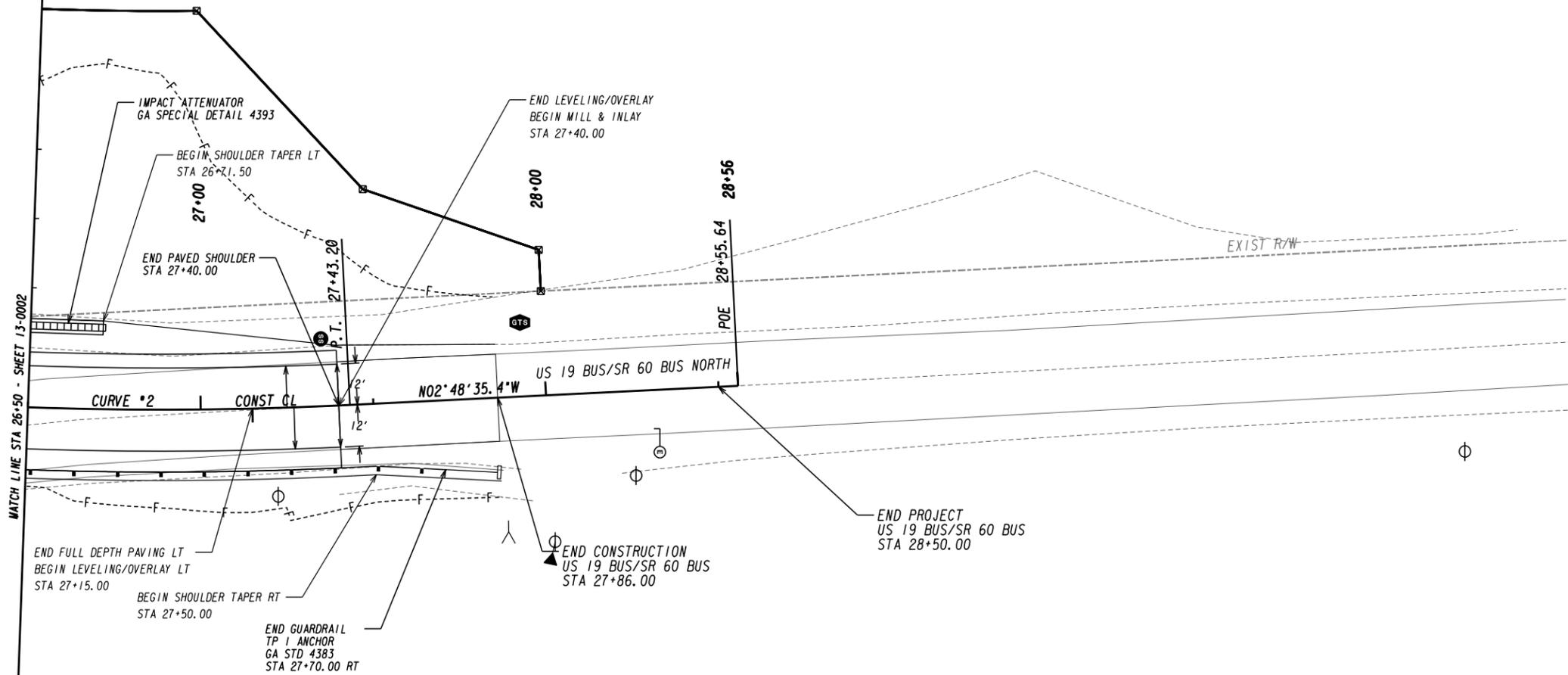
NO.	DATE	DESCRIPTION

CONSTRUCTION PLAN
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

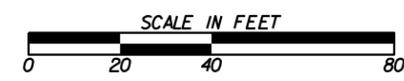
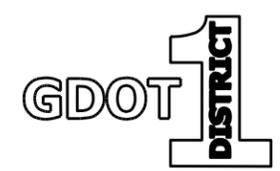
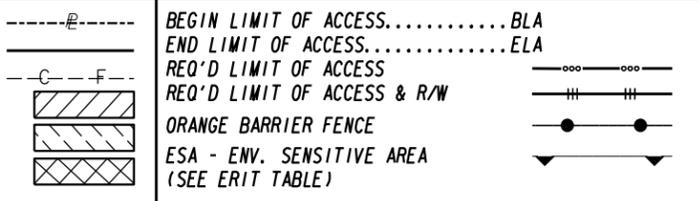
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	13-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	

Curve* 2
 PI Sta* 26+22.10
 N* 1655542.7043
 E* 2348042.6747
 DELTA* 12°40'03.7" (LT)
 D* 05°12'31.35"
 T* 122.10
 L* 243.20
 R* 1100.00
 E* 6.76
 D.S.* 45 MPH
 e * N.C.

SUPERELEVATION TABLE			
STATION	LANE	X-SLOPE	NOTE
27+25.00	LT	-2.000%	END N.C.
27+27.00	RT	-2.000%	END N.C.
27+40.00	LT	-1.367%	TIE TO EXIST
27+40.00	RT	-2.575%	TIE TO EXIST



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



REVISION DATES	

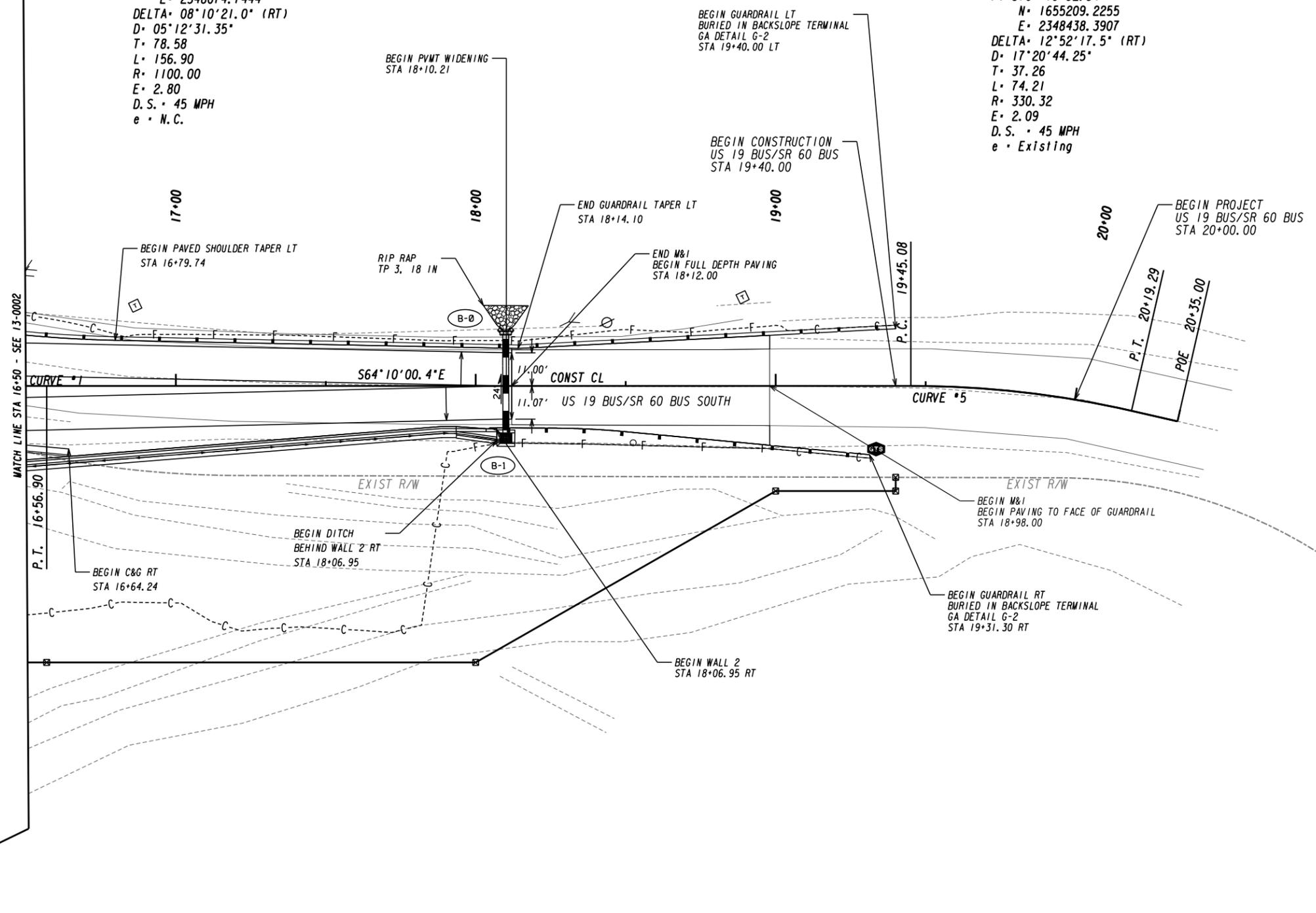
CONSTRUCTION PLAN
 US 19 BUS/SR 60 BUS @ OAK GROVE RD
 LUMPKIN COUNTY

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

SUPERELEVATION TABLE			
STATION	LANE	X-SLOPE	NOTE
17+90.00	RT	-2.000%	END N.C.
17+95.00	LT	-2.000%	END N.C.
18+12.00	LT	-2.826%	TIE TO EXIST
18+12.00	RT	-0.947%	TIE TO EXIST

Curve # 1
 PI Sta 15+78.58
 N = 1655385.2791
 E = 2348074.7444
 DELTA = 08°10'21.0" (RT)
 D = 05°12'31.35"
 T = 78.58
 L = 156.90
 R = 1100.00
 E = 2.80
 D.S. = 45 MPH
 e = N.C.

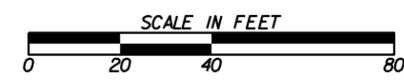
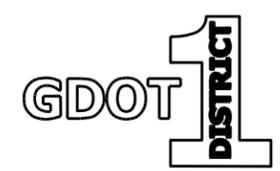
Curve # 5
 PI Sta 19+82.34
 N = 1655209.2255
 E = 2348438.3907
 DELTA = 12°52'17.5" (RT)
 D = 17°20'44.25"
 T = 37.26
 L = 74.21
 R = 330.32
 E = 2.09
 D.S. = 45 MPH
 e = Existing



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

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

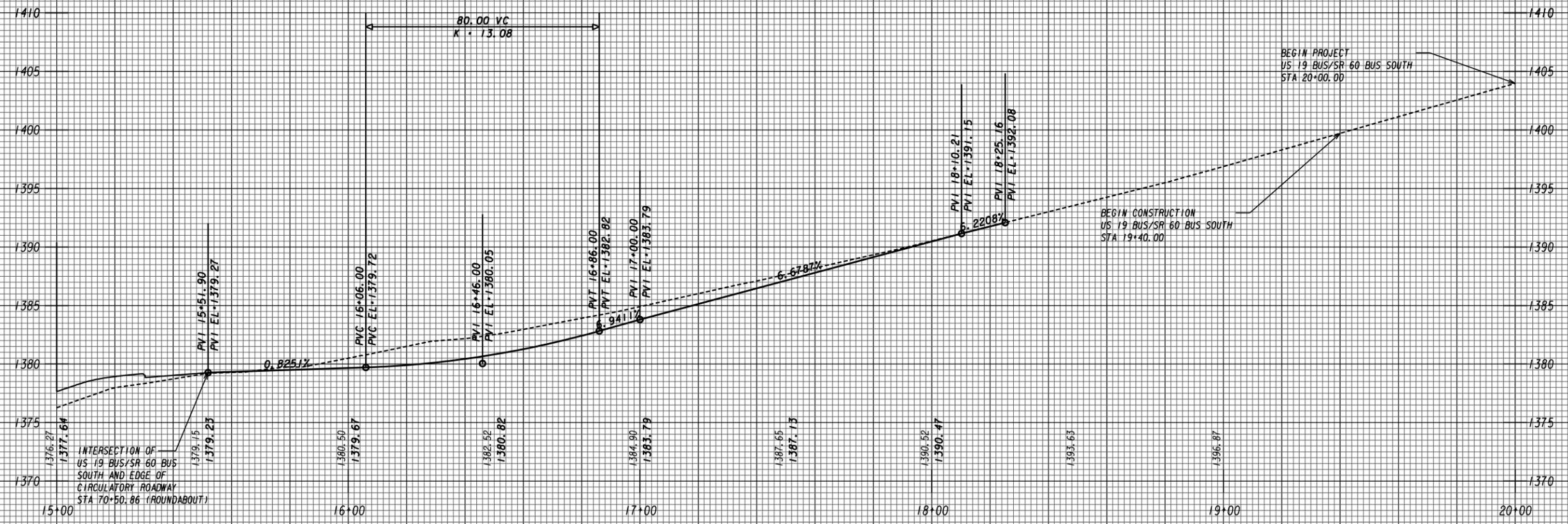
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 REQ'D LIMIT OF ACCESS
 REQ'D LIMIT OF ACCESS & R/W
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



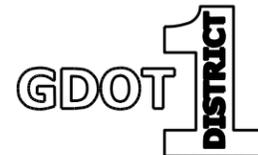
REVISION DATES	

CONSTRUCTION PLAN
 US 19 BUS/SR 60 BUS @ OAK GROVE RD
 LUMPKIN COUNTY

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



US 19 BUS/SR 60 BUS SOUTH (SOUTH LEG)



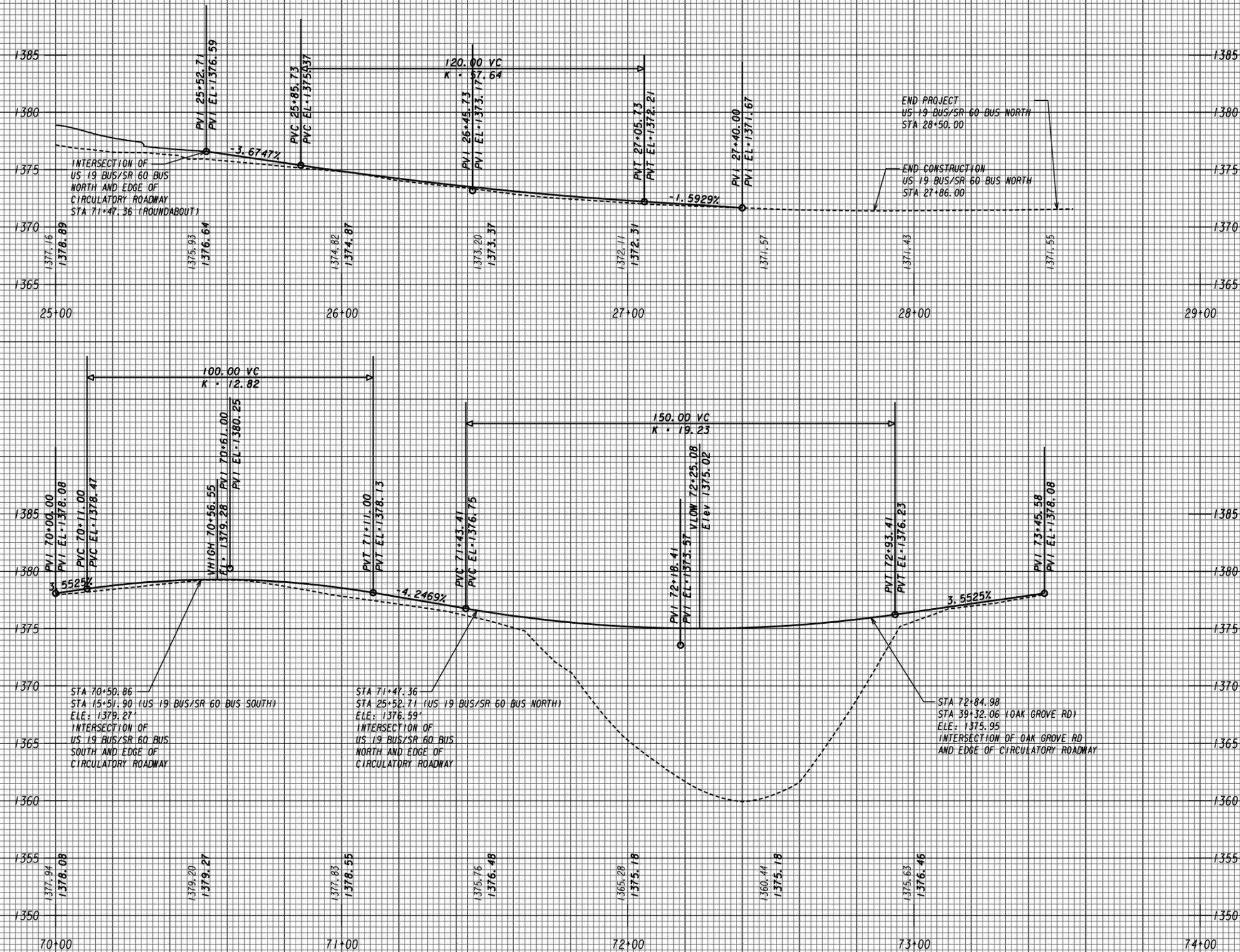
REVISION DATES

NO.	DATE	DESCRIPTION

MAINLINE PROFILE

US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	15-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



US 19 BUS/SR 60 BUS NORTH
(NORTH LEG)

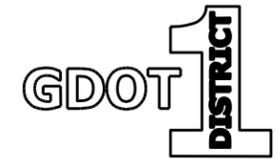
ROUNDABOUT

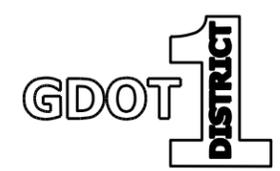
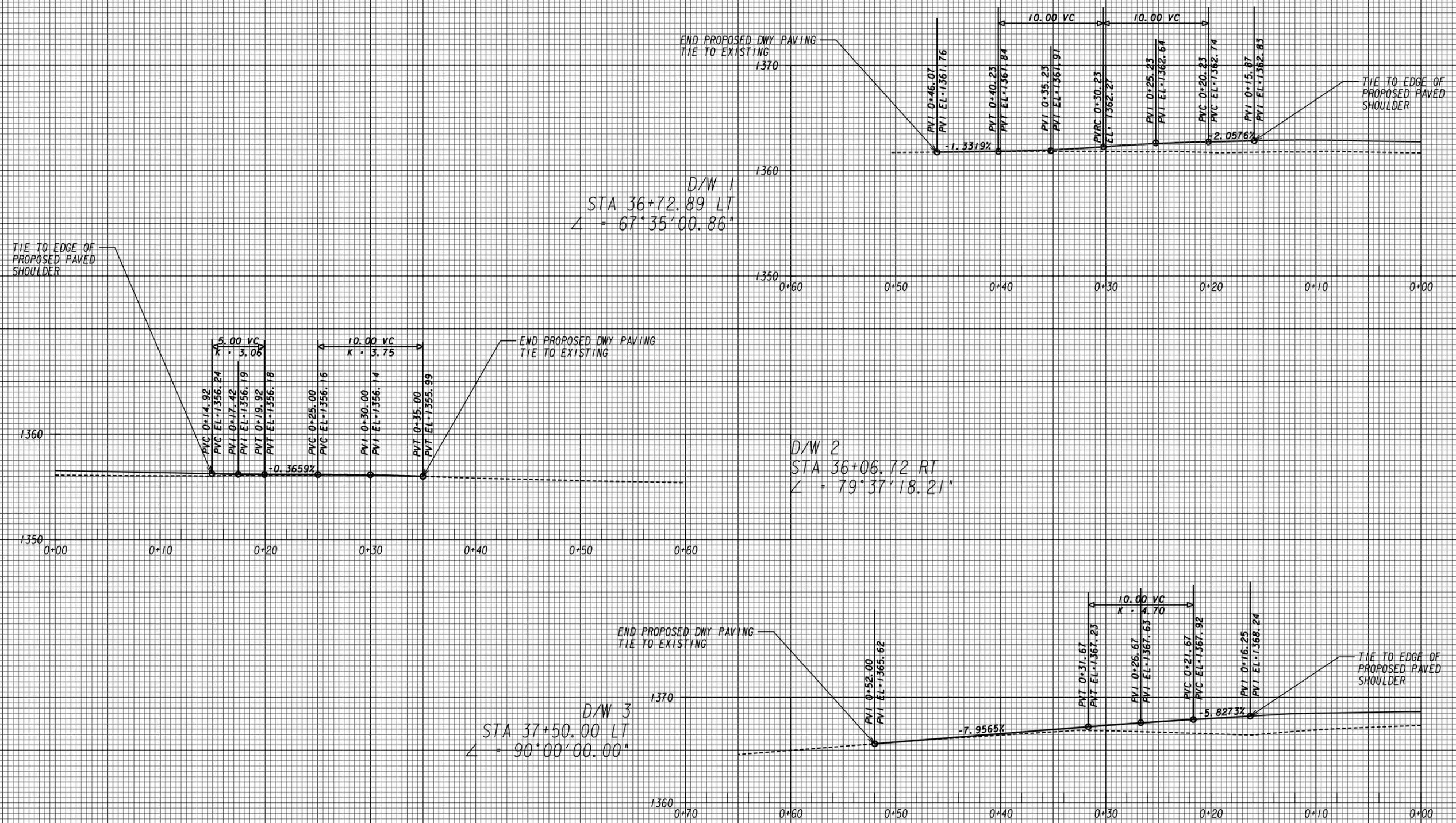
REVISION DATES

MAINLINE PROFILE
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

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

15-0002





REVISION DATES

NO.	DATE	DESCRIPTION

DRIVEWAY PROFILE

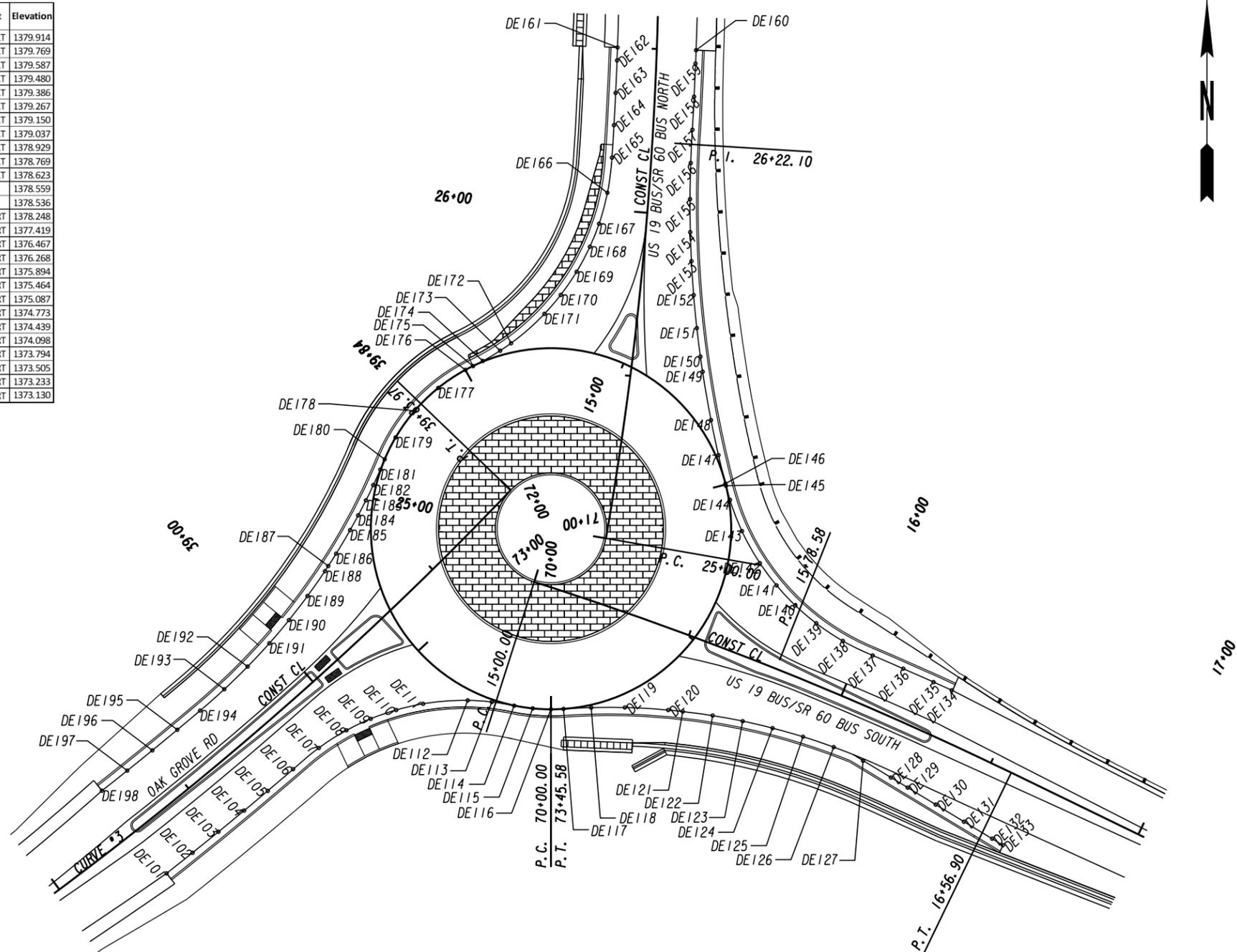
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

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

Point	Reference Alignment	Station	Offset	Elevation
DE161	US 19 BUS/SR 60 BUS South	26+50.00	12.00' LT	1373.130
DE162	US 19 BUS/SR 60 BUS South	26+46.01	12.00' LT	1373.233
DE163	US 19 BUS/SR 60 BUS South	26+36.01	12.00' LT	1373.505
DE164	US 19 BUS/SR 60 BUS South	26+26.01	12.00' LT	1373.794
DE165	US 19 BUS/SR 60 BUS South	26+16.00	12.00' LT	1374.100
DE166	US 19 BUS/SR 60 BUS South	26+05.14	12.60' LT	1374.441
DE167	US 19 BUS/SR 60 BUS South	25+95.39	14.39' LT	1374.756
DE168	US 19 BUS/SR 60 BUS South	25+88.11	16.54' LT	1375.056
DE169	US 19 BUS/SR 60 BUS South	25+79.96	19.86' LT	1375.420
DE170	US 19 BUS/SR 60 BUS South	25+72.31	23.95' LT	1375.586
DE171	US 19 BUS/SR 60 BUS South	25+65.87	28.25' LT	1375.743
DE172	US 19 BUS/SR 60 BUS South	25+55.49	37.35' LT	1375.476
DE173	US 19 BUS/SR 60 BUS South	25+52.72	40.37' LT	1375.397
DE174	US 19 BUS/SR 60 BUS South	25+48.82	45.20' LT	1375.277
DE175	Roundabout	71+97.43	0.00'	1375.215
DE176	Roundabout	72+00.00	0.00'	1375.180
DE177	Roundabout	72+10.00	0.00'	1375.075
DE178	Roundabout	72+20.00	0.00'	1375.023
DE179	Roundabout	72+30.00	0.00'	1375.022
DE180	Roundabout	72+37.47	0.00'	1375.056
DE181	Oak Grove Rd	39+60.23	32.85' LT	1375.068
DE182	Oak Grove Rd	39+55.23	31.00' LT	1375.079
DE183	Oak Grove Rd	39+50.23	29.27' LT	1375.091
DE184	Oak Grove Rd	39+45.23	27.65' LT	1375.103
DE185	Oak Grove Rd	39+40.23	26.15' LT	1375.114
DE186	Oak Grove Rd	39+31.96	23.89' LT	1375.133
DE187	Oak Grove Rd	39+27.54	22.81' LT	1375.143
DE188	Oak Grove Rd	39+25.70	22.38' LT	1375.148
DE189	Oak Grove Rd	39+16.47	20.45' LT	1375.169
DE190	Oak Grove Rd	39+07.17	18.86' LT	1375.144
DE191	Oak Grove Rd	38+97.89	17.63' LT	1375.030
DE192	Oak Grove Rd	38+88.00	16.70' LT	1374.798
DE193	Oak Grove Rd	38+78.00	16.15' LT	1374.529
DE194	Oak Grove Rd	38+68.00	16.00' LT	1374.224
DE195	Oak Grove Rd	38+58.76	16.00' LT	1373.914
DE196	Oak Grove Rd	38+48.76	16.00' LT	1373.551
DE197	Oak Grove Rd	38+38.76	16.00' LT	1373.16
DE198	Oak Grove Rd	38+28.76	16.00' LT	1372.74

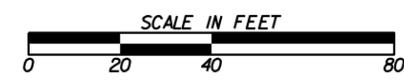
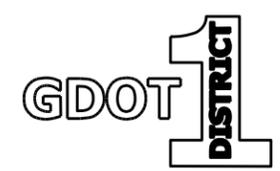
Point	Reference Alignment	Station	Offset	Elevation
DE134	US 19 BUS/SR 60 BUS South	16+30.00	15.00' LT	1379.914
DE135	US 19 BUS/SR 60 BUS South	16+24.00	15.00' LT	1379.769
DE136	US 19 BUS/SR 60 BUS South	16+14.00	15.00' LT	1379.587
DE137	US 19 BUS/SR 60 BUS South	16+04.00	15.00' LT	1379.480
DE138	US 19 BUS/SR 60 BUS South	15+94.00	15.55' LT	1379.386
DE139	US 19 BUS/SR 60 BUS South	15+84.59	17.44' LT	1379.267
DE140	US 19 BUS/SR 60 BUS South	15+76.78	20.09' LT	1379.150
DE141	US 19 BUS/SR 60 BUS South	15+69.38	23.66' LT	1379.037
DE142	US 19 BUS/SR 60 BUS South	15+62.34	28.19' LT	1378.929
DE143	US 19 BUS/SR 60 BUS South	15+54.00	35.41' LT	1378.769
DE144	US 19 BUS/SR 60 BUS South	15+47.50	43.05' LT	1378.623
DE145	Roundabout	70+99.63	0.00'	1378.559
DE146	Roundabout	71+00.31	0.00'	1378.536
DE147	US 19 BUS/SR 60 BUS North	25+30.03	29.96' RT	1378.248
DE148	US 19 BUS/SR 60 BUS North	25+40.03	26.20' RT	1377.419
DE149	US 19 BUS/SR 60 BUS North	25+53.98	21.76' RT	1376.467
DE150	US 19 BUS/SR 60 BUS North	25+58.39	20.54' RT	1376.268
DE151	US 19 BUS/SR 60 BUS North	25+66.75	18.46' RT	1375.894
DE152	US 19 BUS/SR 60 BUS North	25+76.50	16.42' RT	1375.464
DE153	US 19 BUS/SR 60 BUS North	25+86.57	14.72' RT	1375.087
DE154	US 19 BUS/SR 60 BUS North	25+95.22	13.60' RT	1374.773
DE155	US 19 BUS/SR 60 BUS North	26+05.14	12.68' RT	1374.439
DE156	US 19 BUS/SR 60 BUS North	26+16.00	12.12' RT	1374.098
DE157	US 19 BUS/SR 60 BUS North	26+26.01	12.00' RT	1373.794
DE158	US 19 BUS/SR 60 BUS North	26+36.01	12.00' RT	1373.505
DE159	US 19 BUS/SR 60 BUS North	26+46.01	12.00' RT	1373.233
DE160	US 19 BUS/SR 60 BUS North	26+50.00	12.00' RT	1373.130

Point	Reference Alignment	Station	Offset	Elevation
DE101	Oak Grove Rd	38+28.76	16.00' RT	1372.740
DE102	Oak Grove Rd	38+38.76	16.00' RT	1373.148
DE103	Oak Grove Rd	38+48.76	16.00' RT	1373.555
DE104	Oak Grove Rd	38+58.76	16.00' RT	1373.963
DE105	Oak Grove Rd	38+68.00	16.00' RT	1374.339
DE106	Oak Grove Rd	38+78.00	16.00' RT	1374.747
DE107	Oak Grove Rd	38+88.00	16.26' RT	1375.154
DE108	Oak Grove Rd	38+97.78	17.84' RT	1375.559
DE109	Oak Grove Rd	39+05.48	20.17' RT	1375.887
DE110	Oak Grove Rd	39+12.90	23.41' RT	1376.218
DE111	Oak Grove Rd	39+20.03	27.60' RT	1376.556
DE112	Oak Grove Rd	39+30.38	36.16' RT	1377.106
DE113	Oak Grove Rd	39+35.21	41.56' RT	1377.401
DE114	Roundabout	73+34.27	0.00'	1377.681
DE115	Roundabout	73+40.00	0.00'	1377.885
DE116	Roundabout	70+00.00	0.00'	1378.083
DE117	Roundabout	70+03.83	0.00'	1378.219
DE118	US 19 BUS/SR 60 BUS South	15+29.00	30.81' RT	1378.395
DE119	US 19 BUS/SR 60 BUS South	15+39.00	27.35' RT	1378.610
DE120	US 19 BUS/SR 60 BUS South	15+51.95	23.55' RT	1378.885
DE121	US 19 BUS/SR 60 BUS South	15+56.37	22.41' RT	1378.963
DE122	US 19 BUS/SR 60 BUS South	15+65.51	20.33' RT	1379.065
DE123	US 19 BUS/SR 60 BUS South	15+74.82	18.58' RT	1379.168
DE124	US 19 BUS/SR 60 BUS South	15+84.21	17.16' RT	1379.272
DE125	US 19 BUS/SR 60 BUS South	15+94.00	16.07' RT	1379.376
DE126	US 19 BUS/SR 60 BUS South	16+04.00	15.34' RT	1379.473
DE127	US 19 BUS/SR 60 BUS South	16+14.01	15.58' RT	1379.570
DE128	US 19 BUS/SR 60 BUS South	16+24.00	16.84' RT	1379.722
DE129	US 19 BUS/SR 60 BUS South	16+30.00	17.54' RT	1379.854
DE130	US 19 BUS/SR 60 BUS South	16+40.13	18.67' RT	1380.137
DE131	US 19 BUS/SR 60 BUS South	16+50.29	19.70' RT	1380.496
DE132	US 19 BUS/SR 60 BUS South	16+60.41	20.64' RT	1380.932
DE133	US 19 BUS/SR 60 BUS South	16+64.24	21.00' RT	1381.122



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

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

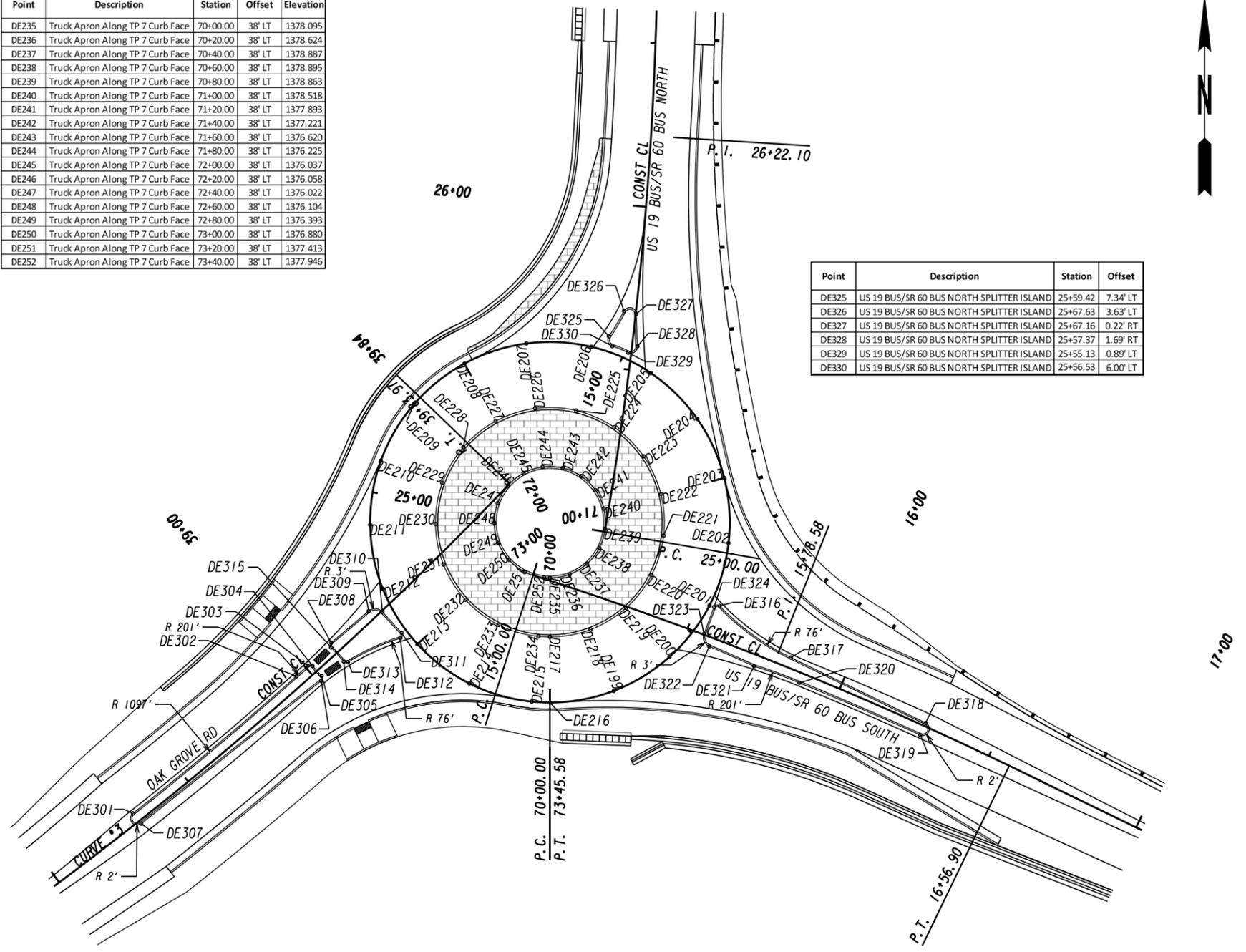


REVISION DATES		SPECIAL GRADING	
		US 19 BUS/SR 60 BUS @ OAK GROVE RD	
		LUMPKIN COUNTY	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	18-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

Point	Description	Station	Offset	Elevation
DE216	Travel Lane Along PGL	70+00.00	0'	1378.083
DE199	Travel Lane Along PGL	70+20.00	0'	1378.762
DE200	Travel Lane Along PGL	70+40.00	0'	1379.176
DE201	Travel Lane Along PGL	70+60.00	0'	1379.278
DE202	Travel Lane Along PGL	70+80.00	0'	1379.068
DE203	Travel Lane Along PGL	71+00.00	0'	1378.547
DE204	Travel Lane Along PGL	71+20.00	0'	1377.744
DE205	Travel Lane Along PGL	71+40.00	0'	1376.895
DE206	Travel Lane Along PGL	71+60.00	0'	1376.117
DE207	Travel Lane Along PGL	71+80.00	0'	1375.544
DE208	Travel Lane Along PGL	72+00.00	0'	1375.180
DE209	Travel Lane Along PGL	72+20.00	0'	1375.023
DE210	Travel Lane Along PGL	72+40.00	0'	1375.074
DE211	Travel Lane Along PGL	72+60.00	0'	1375.333
DE212	Travel Lane Along PGL	72+80.00	0'	1375.800
DE213	Travel Lane Along PGL	73+00.00	0'	1376.464
DE214	Travel Lane Along PGL	73+20.00	0'	1377.174
DE215	Travel Lane Along PGL	73+40.00	0'	1377.885

Point	Description	Station	Offset	Elevation
DE217	Travel Lane Along TP 9 Curb Face	70+00.00	20' LT	1377.911
DE218	Travel Lane Along TP 9 Curb Face	70+20.00	20' LT	1378.509
DE219	Travel Lane Along TP 9 Curb Face	70+40.00	20' LT	1378.843
DE220	Travel Lane Along TP 9 Curb Face	70+60.00	20' LT	1378.895
DE221	Travel Lane Along TP 9 Curb Face	70+80.00	20' LT	1378.780
DE222	Travel Lane Along TP 9 Curb Face	71+00.00	20' LT	1378.353
DE223	Travel Lane Along TP 9 Curb Face	71+20.00	20' LT	1377.646
DE224	Travel Lane Along TP 9 Curb Face	71+40.00	20' LT	1376.891
DE225	Travel Lane Along TP 9 Curb Face	71+60.00	20' LT	1376.208
DE226	Travel Lane Along TP 9 Curb Face	71+80.00	20' LT	1375.730
DE227	Travel Lane Along TP 9 Curb Face	72+00.00	20' LT	1375.460
DE228	Travel Lane Along TP 9 Curb Face	72+20.00	20' LT	1375.399
DE229	Travel Lane Along TP 9 Curb Face	72+40.00	20' LT	1375.403
DE230	Travel Lane Along TP 9 Curb Face	72+60.00	20' LT	1375.567
DE231	Travel Lane Along TP 9 Curb Face	72+80.00	20' LT	1375.939
DE232	Travel Lane Along TP 9 Curb Face	73+00.00	20' LT	1376.508
DE233	Travel Lane Along TP 9 Curb Face	73+20.00	20' LT	1377.124
DE234	Travel Lane Along TP 9 Curb Face	73+40.00	20' LT	1377.739

Point	Description	Station	Offset	Elevation
DE235	Truck Apron Along TP 7 Curb Face	70+00.00	38' LT	1378.095
DE236	Truck Apron Along TP 7 Curb Face	70+20.00	38' LT	1378.624
DE237	Truck Apron Along TP 7 Curb Face	70+40.00	38' LT	1378.887
DE238	Truck Apron Along TP 7 Curb Face	70+60.00	38' LT	1378.895
DE239	Truck Apron Along TP 7 Curb Face	70+80.00	38' LT	1378.863
DE240	Truck Apron Along TP 7 Curb Face	71+00.00	38' LT	1378.518
DE241	Truck Apron Along TP 7 Curb Face	71+20.00	38' LT	1377.893
DE242	Truck Apron Along TP 7 Curb Face	71+40.00	38' LT	1377.221
DE243	Truck Apron Along TP 7 Curb Face	71+60.00	38' LT	1376.620
DE244	Truck Apron Along TP 7 Curb Face	71+80.00	38' LT	1376.225
DE245	Truck Apron Along TP 7 Curb Face	72+00.00	38' LT	1376.037
DE246	Truck Apron Along TP 7 Curb Face	72+20.00	38' LT	1376.058
DE247	Truck Apron Along TP 7 Curb Face	72+40.00	38' LT	1376.022
DE248	Truck Apron Along TP 7 Curb Face	72+60.00	38' LT	1376.104
DE249	Truck Apron Along TP 7 Curb Face	72+80.00	38' LT	1376.393
DE250	Truck Apron Along TP 7 Curb Face	73+00.00	38' LT	1376.880
DE251	Truck Apron Along TP 7 Curb Face	73+20.00	38' LT	1377.413
DE252	Truck Apron Along TP 7 Curb Face	73+40.00	38' LT	1377.946



Point	Description	Station	Offset
DE325	US 19 BUS/SR 60 BUS NORTH SPLITTER ISLAND	25+59.42	7.34' LT
DE326	US 19 BUS/SR 60 BUS NORTH SPLITTER ISLAND	25+67.63	3.63' LT
DE327	US 19 BUS/SR 60 BUS NORTH SPLITTER ISLAND	25+67.16	0.22' RT
DE328	US 19 BUS/SR 60 BUS NORTH SPLITTER ISLAND	25+57.37	1.69' RT
DE329	US 19 BUS/SR 60 BUS NORTH SPLITTER ISLAND	25+55.13	0.89' LT
DE330	US 19 BUS/SR 60 BUS NORTH SPLITTER ISLAND	25+56.53	6.00' LT

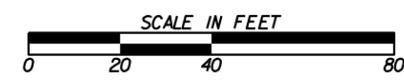
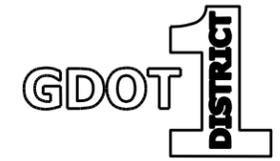
Point	Description	Station	Offset
DE301	OAK GROVE RD SPLITTER ISLAND	38+30.76	3.00' LT
DE302	OAK GROVE RD SPLITTER ISLAND	38+96.09	3.00' LT
DE303	OAK GROVE RD SPLITTER ISLAND	39+00.85	3.05' LT
DE304	OAK GROVE RD SPLITTER ISLAND	39+01.87	2.05' LT
DE305	OAK GROVE RD SPLITTER ISLAND	39+01.90	2.11' RT
DE306	OAK GROVE RD SPLITTER ISLAND	39+00.84	3.11' RT
DE307	OAK GROVE RD SPLITTER ISLAND	38+30.77	1.00' RT
DE308	OAK GROVE RD SPLITTER ISLAND	39+10.92	3.44' LT
DE309	OAK GROVE RD SPLITTER ISLAND	39+25.92	2.74' LT
DE310	OAK GROVE RD SPLITTER ISLAND	39+28.76	0.28' RT
DE311	OAK GROVE RD SPLITTER ISLAND	39+28.68	9.00' RT
DE312	OAK GROVE RD SPLITTER ISLAND	39+27.26	9.89' RT
DE313	OAK GROVE RD SPLITTER ISLAND	39+10.68	4.37' RT
DE314	OAK GROVE RD SPLITTER ISLAND	39+09.88	3.39' RT
DE315	OAK GROVE RD SPLITTER ISLAND	39+09.88	2.44' LT

Point	Description	Station	Offset
DE316	US 19 BUS/SR 60 BUS SOUTH SPLITTER ISLAND	15+56.71	9.89' LT
DE317	US 19 BUS/SR 60 BUS SOUTH SPLITTER ISLAND	15+82.55	3.15' LT
DE318	US 19 BUS/SR 60 BUS SOUTH SPLITTER ISLAND	16+28.26	1.00' LT
DE319	US 19 BUS/SR 60 BUS SOUTH SPLITTER ISLAND	16+28.21	3.00' RT
DE320	US 19 BUS/SR 60 BUS SOUTH SPLITTER ISLAND	15+87.88	3.00' RT
DE321	US 19 BUS/SR 60 BUS SOUTH SPLITTER ISLAND	15+73.09	3.44' RT
DE322	US 19 BUS/SR 60 BUS SOUTH SPLITTER ISLAND	15+58.05	2.74' RT
DE323	US 19 BUS/SR 60 BUS SOUTH SPLITTER ISLAND	15+55.21	0.28' LT
DE324	US 19 BUS/SR 60 BUS SOUTH SPLITTER ISLAND	15+55.29	9.00' LT

NOTES:
1. ALL CORNER RADII OF SPLITTER ISLANDS ARE 1', UNLESS NOTED OR SHOWN OTHERWISE.
2. ALL CORNER RADII OF SPLITTER ISLAND ON US 19 BUS/SR 60 BUS NORTH (NORTH LEG) ARE 2'.

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

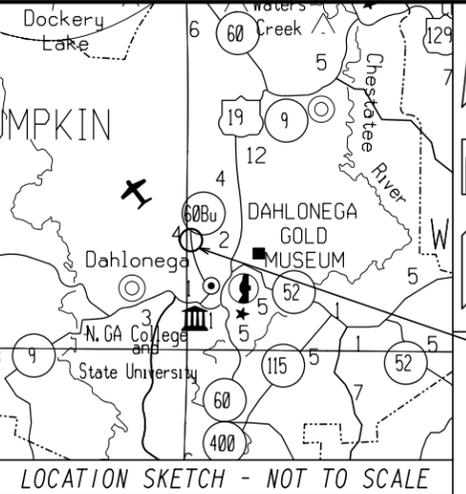
-----E-----
BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
REQ'D LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA
(SEE ERIT TABLE)



REVISION DATES	

SPECIAL GRADING
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	18-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



DETOUR LENGTHS & SPEED LIMITS

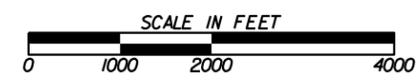
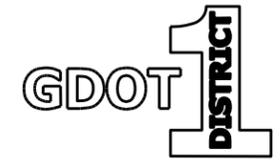
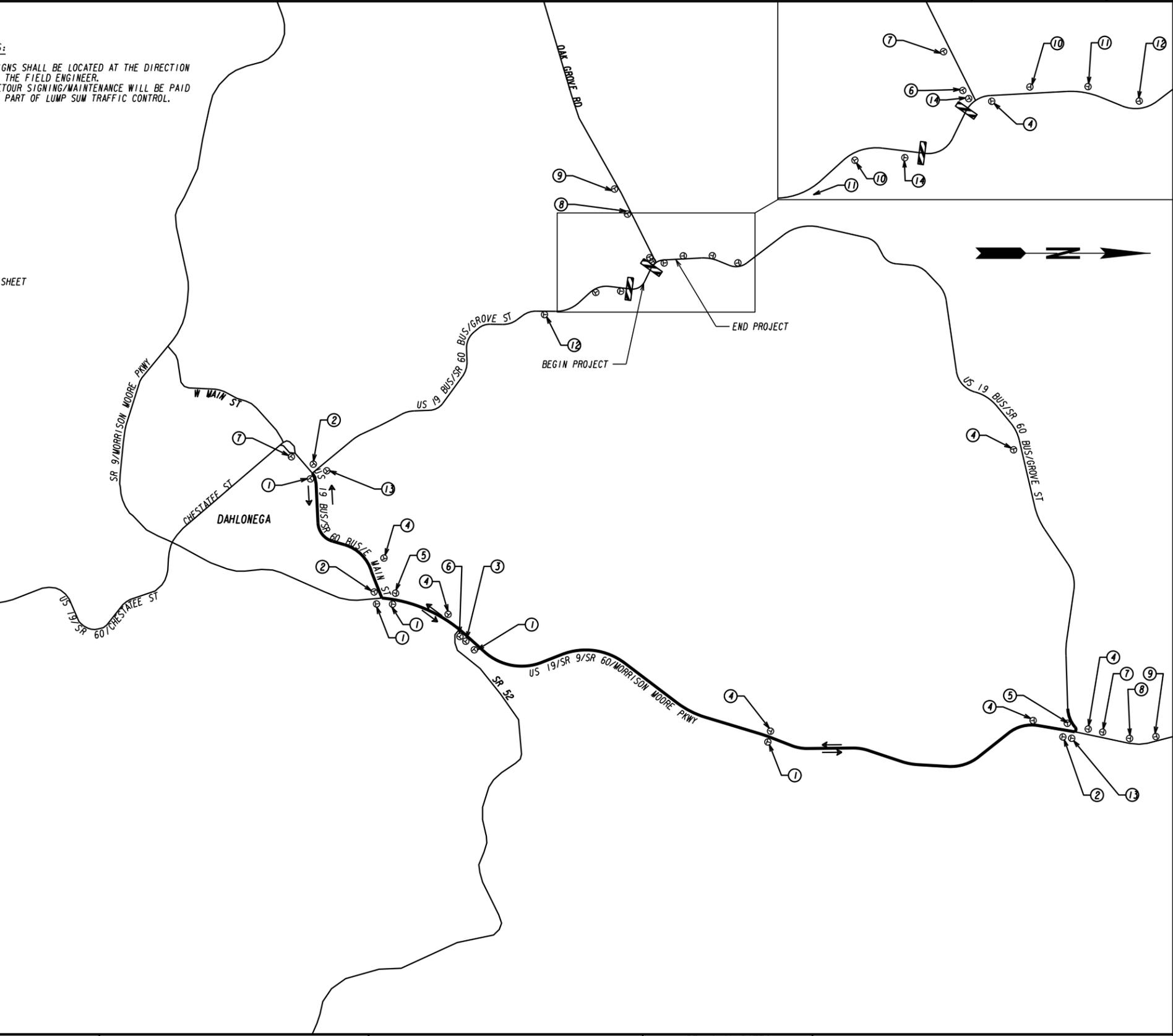
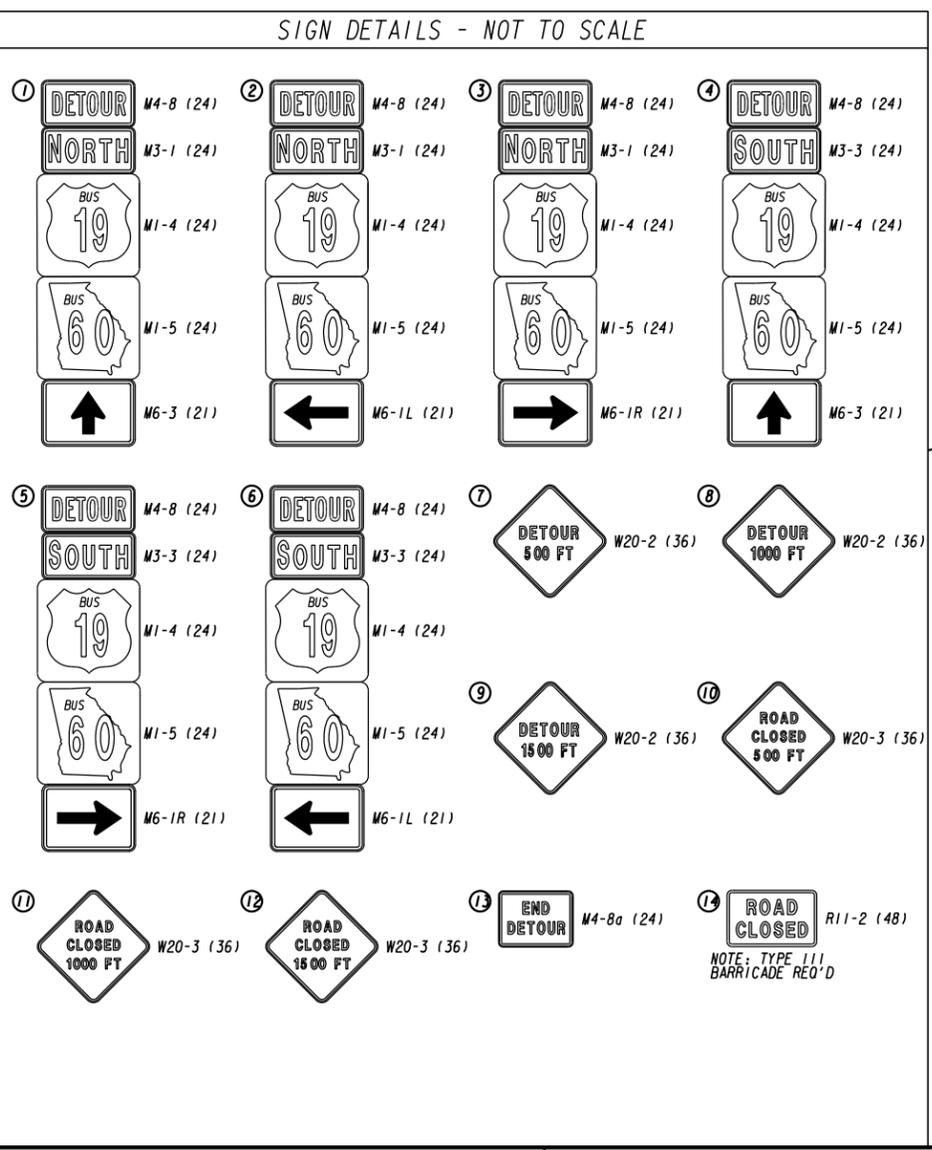
TOTAL DETOUR LENGTH: 3.04 MILES
PROPOSED DURATION: 60 DAYS

US 19 BUS/SR 60 BUS/E MAIN ST
LENGTH: 0.52 MILES
SPEED LIMIT: 25 / 35 MPH

US 19/SR 9/SR 60/MORRISON MOORE PKWY
LENGTH: 2.52 MILES
SPEED LIMIT: 45 MPH

NOTES:

- SIGNS SHALL BE LOCATED AT THE DIRECTION OF THE FIELD ENGINEER.
- DETOUR SIGNING/MAINTENANCE WILL BE PAID AS PART OF LUMP SUM TRAFFIC CONTROL.



REVISION DATES		STAGING DETAILS	
		US 19 BUS/SR 60 BUS @ OAK GROVE RD LUMPKIN COUNTY	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	20-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

PROJECT DESCRIPTION:
THE PROPOSED INTERSECTION IMPROVEMENT INCLUDES CONSTRUCTION OF A GDOT ROUNDABOUT WITH STORMWATER MANAGEMENT, UTILITY RELOCATION, AND EROSION CONTROL BMPs.

TOTAL AREA= 3.56 ACRES
DISTURBED AREA= 3.28 ACRES

BOUNDARY INFORMATION FROM GDOT.

UTILITIES SHOWN HEREON ARE FROM EXISTING STRUCTURES AND ABOVE GROUND MARKS FOUND. DAVIS ENGINEERING AND SURVEYING, LLC IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES.

CONTOUR INTERVAL = 2'

PROJECT BENCHMARK:
TBM USED IS POINT OF PROJECT BEGINNING ALONG C/A OF OAK GROVE ROAD
ELEV: 1348.0 (APPROX.) E: 2347595.04, N: 1655166.77

NO PORTION OF THIS SITE IS LOCATED WITHIN THE 100-YEAR FLOOD PRONE AREA AS PER FLOOD INSURANCE RATE MAP NO. 13187C0161D, DATED 04/04/2018.

GENERAL NOTES:

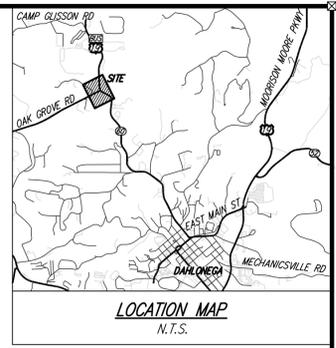
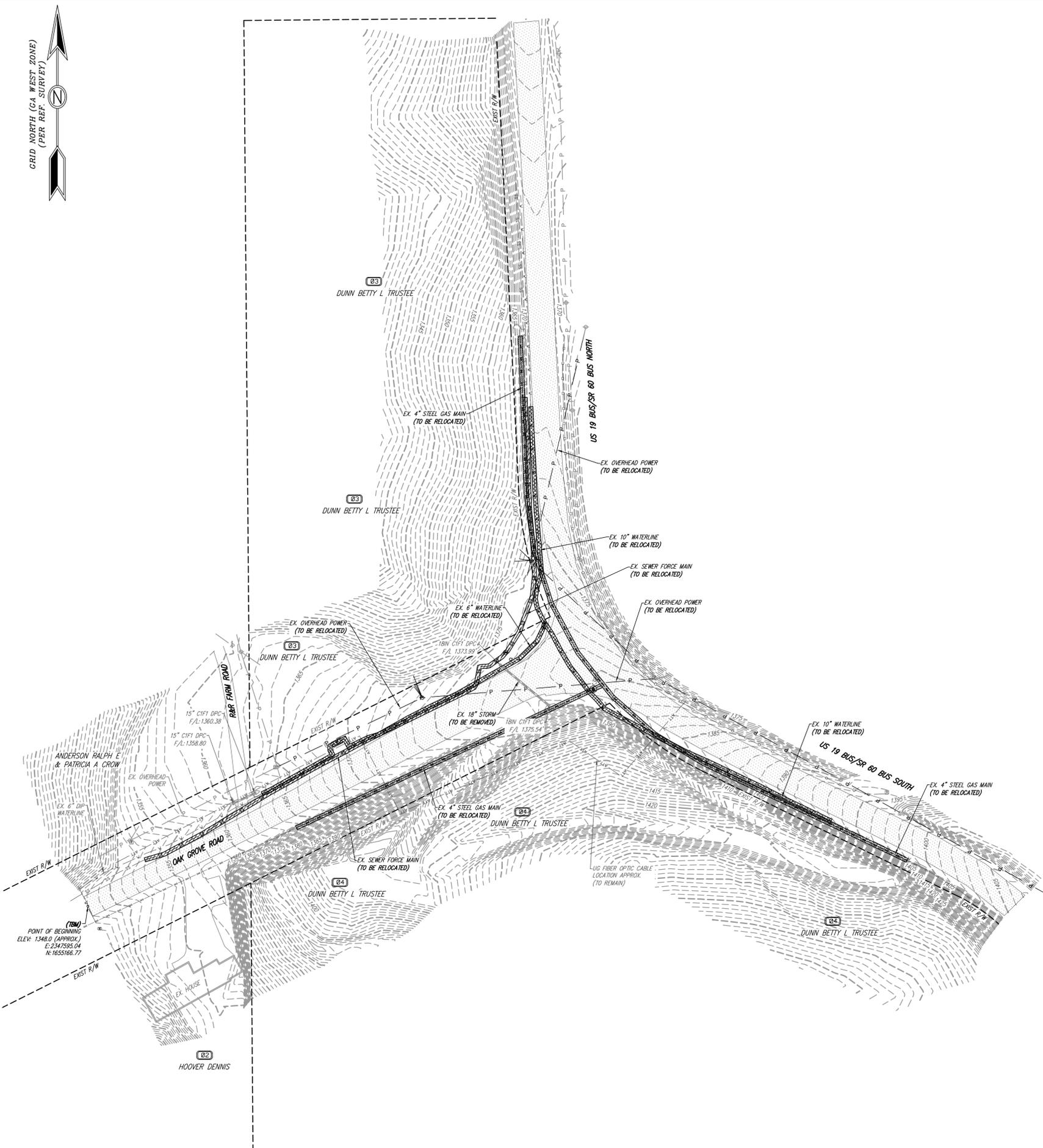
- 1) ALL CONSTRUCTION WORK, MATERIALS, AND IMPROVEMENTS AT THIS SITE SHALL CONFORM WITH GDOT, LUMPKIN COUNTY, & CITY OF DAHLONEGA, GEORGIA REQUIREMENTS.
- 2) ALL STRUCTURES WILL BE REQUIRED TO CONFORM TO THE STANDARD BUILDING CODES HORIZONTAL SEPARATION STANDARDS. APPROVAL OF THIS PERMIT WILL NOT JUSTIFY ANY DEVIATION IN HORIZONTAL SEPARATION STANDARDS AS ADOPTED AND AMENDED BY THE GEORGIA DEPARTMENT OF COMMUNITY AFFAIRS.
- 3) CONTRACTORS SHALL CONDUCT ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) AND ALL LOCAL, STATE AND FEDERAL RULES AND REGULATIONS.
- 4) ALL CONSTRUCTION STAKING ON THIS SITE SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A GEORGIA REGISTERED LAND SURVEYOR.
- 5) MATTERS OF RECORD NOT SHOWN HEREON ARE EXCEPTED.
- 6) THE UTILITIES AND STRUCTURES AS SHOWN ON THIS PLAN WERE FOUND PER ABOVE GROUND EXAMINATION OF THIS SITE, BASED ON VISIBLE INDICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXACT LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND UTILITIES AND OTHER STRUCTURES BEFORE THE START OF CONSTRUCTION ON THIS PROJECT.
- 7) IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ALL UTILITIES ARE AS NOTED IN THE PLANS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER AS SOON AS POSSIBLE.
- 8) TOILET FACILITIES SHALL BE MADE AVAILABLE TO CONSTRUCTION WORKERS WITHIN 300' OF SITE.
- 9) NO MATERIAL CAN BE BURIED ONSITE WITHOUT THE APPROVAL OF THE OWNER AND GEOTECHNICAL ENGINEER.
- 10) CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS AS ACCEPTABLE TO THE OWNER.
- 11) CONTRACTOR IS TO REMOVE ALL ROCK, TOPSOIL, AND UNSUITABLE MATERIALS.
- 12) MAXIMUM CUT OR FILL SLOPES SHALL BE 2 HORIZONTAL: 1 VERTICAL.
- 13) THIS SITE DOES NOT CONTAIN WETLANDS.
- 14) THIS SITE DOES NOT HAVE STATE WATERS REQUIRING UNDISTURBED BUFFERS.
- 15) EXISTING FEATURES SHOWN BY DASHED LINES OR SHADED. PROPOSED FEATURES SHOWN BY SOLID OR BOLD LINES.
- 16) CONTRACTOR RESPONSIBLE FOR PROTECTING ADJACENT AREAS AND SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGE TO A CONDITION EQUAL TO OR GREATER THAN THE ORIGINAL CONDITION.
- 17) ALL SIGNAGE AND STRIPING TO BE PROVIDED BY CONTRACTOR ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND OTHER GOVERNING MUNICIPAL STANDARDS AND SPECIFICATIONS, LATEST EDITIONS.
- 18) PRIOR TO CONSTRUCTION, THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS ON THESE DRAWINGS WITH ALL COORDINATING DOCUMENTS AND NOTIFY ENGINEER OF ANY DISCREPANCIES. IF DISCREPANCIES ARE FOUND DURING CONSTRUCTION, THE CONTRACTOR IS TO STOP WORK IMMEDIATELY AND NOTIFY THE ENGINEER.
- 19) ALL EXISTING MANHOLE COVERS, METER BOXES, AND OTHER UTILITY APPURTENANCES LOCATED WITHIN THE LIMITS OF WORK SHALL BE ADJUSTED SO THAT THEIR TOP SURFACES WILL BE FLUSH WITH FINISHED GRADE.
- 20) ALL TEMPORARY STRIPING AND SIGNAGE NECESSARY TO MAINTAIN SAFE VEHICULAR AND PEDESTRIAN TRAFFIC FLOW DURING CONSTRUCTION SHALL BE FURNISHED, INSTALLED, AND MAINTAINED BY THE CONTRACTOR.
- 21) MUTCD SIGNAGE AND CERTIFIED FLAGGERS SHALL BE EMPLOYED DURING ANY ROAD CLOSURE OR TRAFFIC DISRUPTION.

WATER NOTES:

1. ALL WATER CONSTRUCTION SHALL COMPLY WITH LUMPKIN COUNTY & CITY OF DAHLONEGA STANDARDS.
2. ALL MATERIALS, INCLUDING BUT NOT LIMITED TO FITTINGS, SHALL BE INSPECTED BY THE LUMPKIN COUNTY & CITY OF DAHLONEGA UTILITY INSPECTOR PRIOR TO INSTALLATION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A MARKED-UP SET OF CONSTRUCTION DRAWINGS THAT INCLUDE ALL ASBUILT CONDITIONS. ASBUILT OR RECORDED DRAWINGS WILL BE REQUIRED PRIOR TO FINAL APPROVAL.
4. FIRE HYDRANT SHALL BE SUPPLIED BY NOT LESS THAN AN 6" NOMINAL MAIN.
5. THE FOLLOWING REQUIRE INSPECTION PRIOR TO BACK FILLING: WET TAPS, TEES, BENDS, FIRE HYDRANT TEES, AND INSTALLATION OF 57 STONE AT FIRE HYDRANTS.
6. COMPACTION: WHERE WATER LINES, SERVICE LINES ARE INSTALLED UNDER A ROAD, STREET, OR DRIVEWAY, SUFFICIENT COMPACTION IS REQUIRED (PER GEOTECHNICAL REPORT).
7. ALL PVC WATER LINES MUST HAVE A TRACER LOCATE WIRE.
8. WATER MAIN DEPTHS: 2 INCH THROUGH 8 INCH LINES SHALL BE AT A DEPTH NO LESS THAN 3- FEET FROM THE GRADE TO THE TOP OF THE PIPE.
9. DEVELOPERS AND CONTRACTORS SHALL PROVIDE 24-HOURS NOTICE TO THE INSPECTOR PRIOR TO FLUSHING, CHLORINATING, OR PERFORMING A PRESSURE TEST ON THE WATER SYSTEM.
10. ALL WATER MAINS TO BE AWWA CLASS 52 DUCTILE IRON PIPE.

SANITARY SEWER NOTES:

1. ALL SEWER CONSTRUCTION SHALL COMPLY WITH LUMPKIN COUNTY & CITY OF DAHLONEGA STANDARDS.
2. DUCTILE IRON PIPE IS REQUIRED:
 - A. FOR LINES WITH LESS THAN 4 FEET OF COVER.
 - B. WHEN A SEWER LINE CROSSES A STORM SEWER WITH LESS THAN 2 FEET OF COVER.
 - C. WHEN THE LINE PASSES LATERALLY WITHIN 1-FOOT OF A STORM SEWER.
 - D. WHEN THE LINE IS AT A DEPTH OF 16- FEET OR GREATER.
 - E. IN SWAMPY OR UNSTABLE SOIL CONDITIONS WHERE BEDDING IS DIFFICULT TO ESTABLISH.
 - F. WHEN THE SEWER SLOPE IS GREATER THAN 20%.
3. ALL CONNECTIONS MADE TO AN EXISTING MANHOLE MUST BE MADE BY CORING THE MANHOLE AND INSTALLING A RUBBER BOOT.
4. ALL CLEAN OUTS IN TRAFFIC BEARING AREAS SHALL BE USF 7635 OR EQUAL.
5. CONTRACTOR TO VERIFY INVERTS AT SEWER TIE-IN LOCATIONS.



OWNER/DEVELOPER
LUMPKIN COUNTY

24-HOUR CONTACT
LARRY REITER, P.E.
LUMPKIN CO.
PLANNING & PUBLIC WORKS
OFFICE: (706) 864-3122
MOBILE: (706) 344-7961
larry.reiter@lumpkincounty.gov



IF ANY CONFLICTS, DISCREPANCIES, OR ANY OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE FURTHER OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.

LEGEND			
-O-	UTILITY POLE	OCS	OUTLET CONTROL STRUCTURE
IPF	IRON PIN FOUND	UG	UNDERGROUND
W/F	W/ OR FORMERLY	RCP	REINFORCED CONCRETE PIPE
RB	REBAR	CMP	CORRUGATED METAL PIPE
L.L.	LAND LOT	CPP	CORRUGATED PLASTIC PIPE
L.L.L.	LAND LOT LINE	HOPE	HIGH DENSITY POLYETHYLENE
N.T.S.	NOT TO SCALE	SSMH	SANITARY SEWER MANHOLE
B.S.L.	BUILDING SETBACK LINE	SS C/O	SANITARY SEWER CLEANOUT
TBM	TEMPORARY BENCH MARK	FH	FIRE HYDRANT
P/B	PLAT BOOK	WM	WATER METER
PG	PAGE	WV	WATER VALVE
R/W	RIGHT OF WAY	GV	GATE VALVE
C&G	CURB AND GUTTER	DDC	DOUBLE DETECTOR CHECK
BC	BACK OF CURB	BFP	BACK FLOW PREVENTER
FC	FACE OF CURB	DIP	DUCTILE IRON PIPE
CONC.	CONCRETE	PVC	POLYVINYL CHLORIDE
EX	EXISTING	INVT	INVERT
PROP	PROPOSED	TW	TOP OF WALL
FFE	FINISHED FLOOR	BW	BOTTOM OF WALL
ELEV.	ELEVATION	S.S.E.	SANITARY SEWER EASEMENT
MIN.	MINIMUM	D/E	DRAINAGE EASEMENT
LF	LINEAR FEET	□	FENCE
SF	SQ SQUARE FEET	X	SOIL FENCE
TYP.	TYPICAL	—	POWER
GI	GRATE INLET	—	WATER
HGI	HOODED GRATE INLET	—	SANITARY SEWER
PI	PEDESTAL INLET	—	BUILDING SETBACK LINE
JB	JUNCTION BOX		

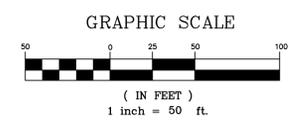
DES DAVIS
ENGINEERING & SURVEYING
133 PROMINENCE COURT
SUITE 210
DAWSONVILLE, GA 30534
PHONE: (706) 265-1234
DAVISENGINEERS.COM

REGISTERED PROFESSIONAL ENGINEER
Jason K. Davis
No. 034135
4/20/21

REVISION	DATE	DESCRIPTION
1	1/7/21	INITIAL PLAN SET
2	3/12/21	UPDATED UTILITIES & EC QUANTITIES
3	3/31/21	REVISE WATER/SEWER PLACEMENT
4	4/20/21	REVISE WATER/GAS CROSSING

EXISTING CONDITIONS/DEMO PLAN
OAK GROVE ROAD ROUNDABOUT
LAND LOTS 853, 898
12TH DISTRICT
LUMPKIN COUNTY, GA

DRAWN BY: GRJ
CHECKED BY: JKD
LAND LOT: 853,898
DISTRICT: 12TH
SECTION: -
CITY: DAHLONEGA
COUNTY: LUMPKIN
DATE: 1/7/21



SHEET NO.
2 OF 9
PROJECT NO.
2020-158

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PROJECT DESCRIPTION:
THE PROPOSED INTERSECTION IMPROVEMENT INCLUDES CONSTRUCTION OF A GDOT ROUNDABOUT WITH STORMWATER MANAGEMENT, UTILITY RELOCATION, AND EROSION CONTROL BMPs.

TOTAL AREA= 3.56 ACRES
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CONTOUR INTERVAL = 2'

PROJECT BENCHMARK:
TBM USED IS POINT OF PROJECT BEGINNING ALONG C/L OF OAK GROVE ROAD
ELEV: 1348.0 (APPROX.) E:2347595.04, N:1655166.77

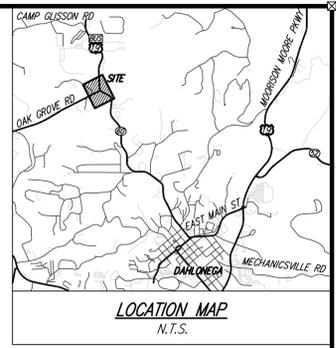
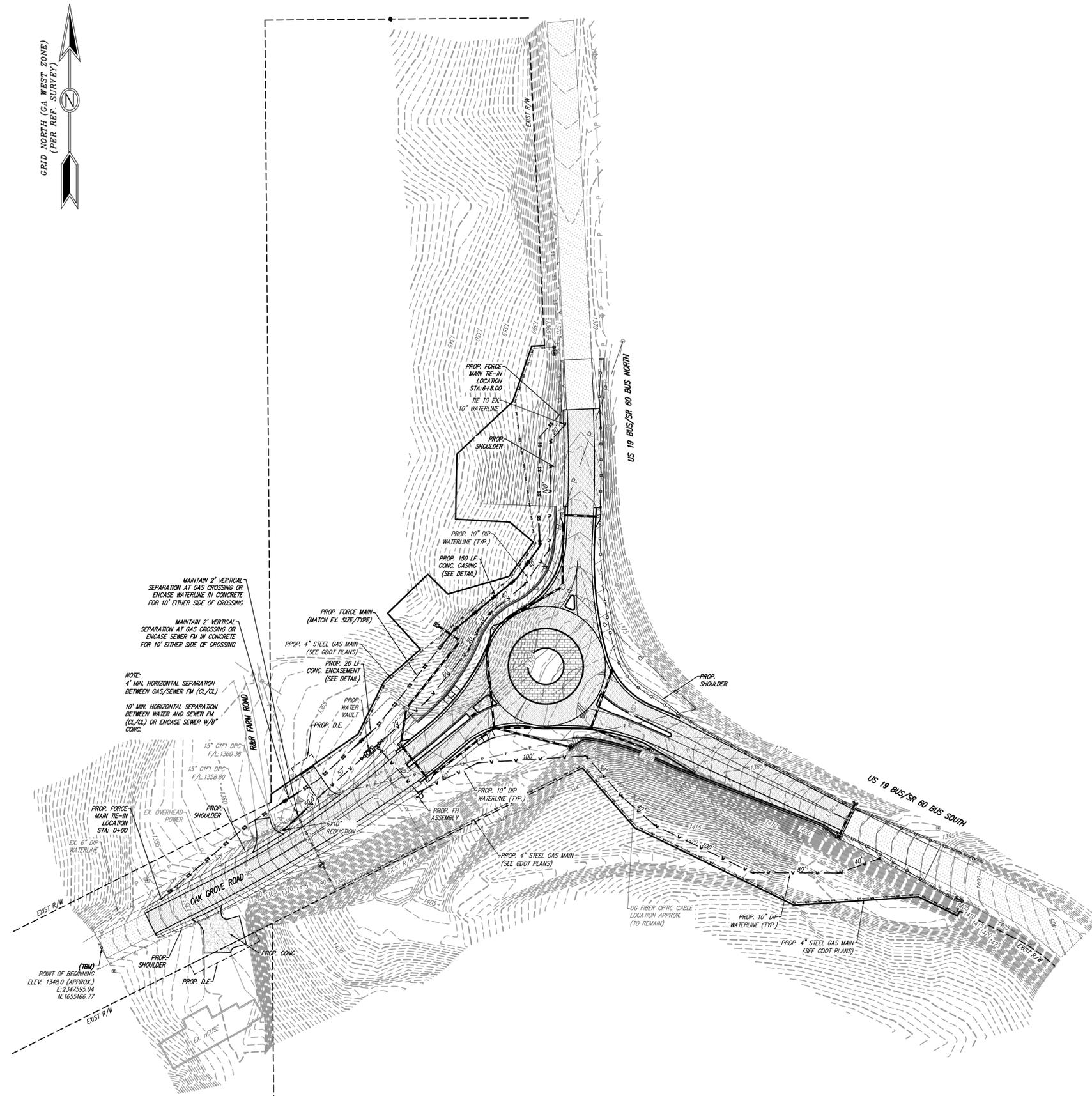
NO PORTION OF THIS SITE IS LOCATED WITHIN THE 100-YEAR FLOOD PRONE AREA AS PER FLOOD INSURANCE RATE MAP NO. 13187C0161D, DATED 04/04/2018.

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- ALL WATER CONSTRUCTION SHALL COMPLY WITH CITY OF DAHLONEGA STANDARDS.
 - ALL MATERIALS, INCLUDING BUT NOT LIMITED TO FITTINGS, SHALL BE INSPECTED BY THE CITY OF DAHLONEGA UTILITY INSPECTOR PRIOR TO INSTALLATION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A MARKED-UP SET OF CONSTRUCTION DRAWINGS THAT INCLUDE ALL AS-BUILT CONDITIONS. AS-BUILT OR RECORDED DRAWINGS WILL BE REQUIRED PRIOR TO FINAL APPROVAL.
 - THE FOLLOWING REQUIRE INSPECTION PRIOR TO BACK FILLING: WET TAPS, TEES, BENDS, FIRE HYDRANT TEES, AND INSTALLATION OF 57 STONE AT FIRE HYDRANTS.
 - COMPACTION: WHERE WATER LINES, SERVICE LINES ARE INSTALLED UNDER A ROAD, STREET, OR DRIVEWAY, SUFFICIENT COMPACTION IS REQUIRED (PER GEOTECHNICAL REPORT).
 - ALL PVC WATER LINES MUST HAVE A TRACER LOCATE WIRE.
 - WATER MAIN DEPTHS: 2 INCH THROUGH 8 INCH LINES SHALL BE AT A DEPTH NO LESS THAN 3- FEET FROM THE GRADE TO THE TOP OF THE PIPE.
 - DEVELOPERS AND CONTRACTORS SHALL PROVIDE 24-HOURS NOTICE TO THE INSPECTOR PRIOR TO FLUSHING, CHLORINATING, OR PERFORMING A PRESSURE TEST ON THE WATER SYSTEM.
 - ALL WATER MAINS TO BE AWWA CLASS 52 DUCTILE IRON PIPE.

- SANITARY SEWER NOTES:**
- ALL SEWER CONSTRUCTION SHALL COMPLY WITH CITY OF DAHLONEGA STANDARDS.



OWNER/DEVELOPER
LUMPKIN COUNTY

24-HOUR CONTACT
LARRY REITER, P.E.
LUMPKIN CO.
PLANNING & PUBLIC WORKS
OFFICE: (706) 864-3122
MOBILE: (706) 344-7961
larry.reiter@lumpkincounty.gov



IF ANY CONFLICTS, DISCREPANCIES, OR ANY OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE FURTHER OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.

LEGEND	
-O- UTILITY POLE	OCS OUTLET CONTROL STRUCTURE
IPF IRON PIN FOUND	UG UNDERGROUND
W/F NOW OR FORMERLY	RCP REINFORCED CONCRETE PIPE
RB REBAR	CMP CORRUGATED METAL PIPE
L.L. LAND LOT	CPP CORRUGATED PLASTIC PIPE
L.L.L. LAND LOT LINE	HOPE HIGH DENSITY POLYETHYLENE
N.T.S. NOT TO SCALE	SSMH SANITARY SEWER MANHOLE
B.S.L. BUILDING SETBACK LINE	SS C/O SANITARY SEWER CLEANOUT
TBM TEMPORARY BENCH MARK	FH FIRE HYDRANT
FB FIELD BOOK	WM WATER METER
PG PAGE	WV WATER VALVE
R/W RIGHT OF WAY	GV GATE VALVE
C&G CURB AND GUTTER	DDC DOUBLE DETECTOR CHECK
BC BACK OF CURB	BFP BACK FLOW PREVENTER
FC FACE OF CURB	DIP DUCTILE IRON PIPE
CONC. CONCRETE	PVC POLYVINYL CHLORIDE
EX EXISTING	INV INVERT
PROP. PROPOSED	TW TOP OF WALL
FFE FINISHED FLOOR	BW BOTTOM OF WALL
ELEV. ELEVATION	S.S.E. SANITARY SEWER EASEMENT
MIN. MINIMUM	D.E. DRAINAGE EASEMENT
LF LINEAR FEET	SK SKI FENCE
SF SF SQUARE FEET	TYP. TYPICAL
WATER WATER	W WATER
GI GRATE INLET	SS SANITARY SEWER
HGI HOODED GRATE INLET	SS- SANITARY SEWER
PI PEDESTAL INLET	SB BUILDING SETBACK LINE
JB JUNCTION BOX	

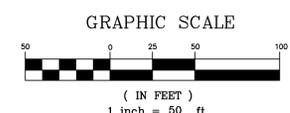
DES DAVIS
ENGINEERING & SURVEYING
133 PROMINENCE COURT
SUITE 210
DAWSONVILLE, GA 30534
PHONE: (706) 265-1234
DAVISENGINEERS.COM

REGISTERED PROFESSIONAL ENGINEER
No. 034135
JASON K. DAVIS
4/20/21

REVISION	DATE	DESCRIPTION
1	1/7/21	INITIAL PLAN SET
2	3/12/21	UPDATED UTILITIES & EC QUANTITIES
3	3/31/21	REVISE WATER/SEWER PLACEMENT
4	4/20/21	REVISE WATER/GAS CROSSING

UTILITY PLAN
OAK GROVE ROAD ROUNDABOUT
LAND LOTS 853, 898
12TH DISTRICT
LUMPKIN COUNTY, GA

DRAWN BY: GRJ
CHECKED BY: JKD
LAND LOT: 853,898
DISTRICT: 12TH
SECTION: -
CITY: DAHLONEGA
COUNTY: LUMPKIN
DATE: 1/7/21



SHEET NO.
3 OF **9**
PROJECT NO.
2020-158

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PROJECT DESCRIPTION:
THE PROPOSED INTERSECTION IMPROVEMENT INCLUDES CONSTRUCTION OF A GDOT ROUNDABOUT WITH STORMWATER MANAGEMENT, UTILITY RELOCATION, AND EROSION CONTROL BMPs.

TOTAL AREA= 3.56 ACRES
DISTURBED AREA= 3.28 ACRES

BOUNDARY INFORMATION FROM GDOT.

UTILITIES SHOWN HEREON ARE FROM EXISTING STRUCTURES AND ABOVE GROUND MARKS FOUND. DAVIS ENGINEERING AND SURVEYING, LLC IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES.

CONTOUR INTERVAL = 2'

PROJECT BENCHMARK:
TBM USED IS POINT OF PROJECT BEGINNING ALONG C/L OF OAK GROVE ROAD
ELEV: 1348.0 (APPROX.) E: 2347593.04, N: 1655166.77

NO PORTION OF THIS SITE IS LOCATED WITHIN THE 100-YEAR FLOOD PRONE AREA AS PER FLOOD INSURANCE RATE MAP NO. 13187C01610, DATED 04/04/2018.

GENERAL NOTES:

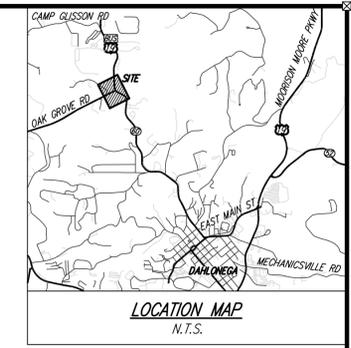
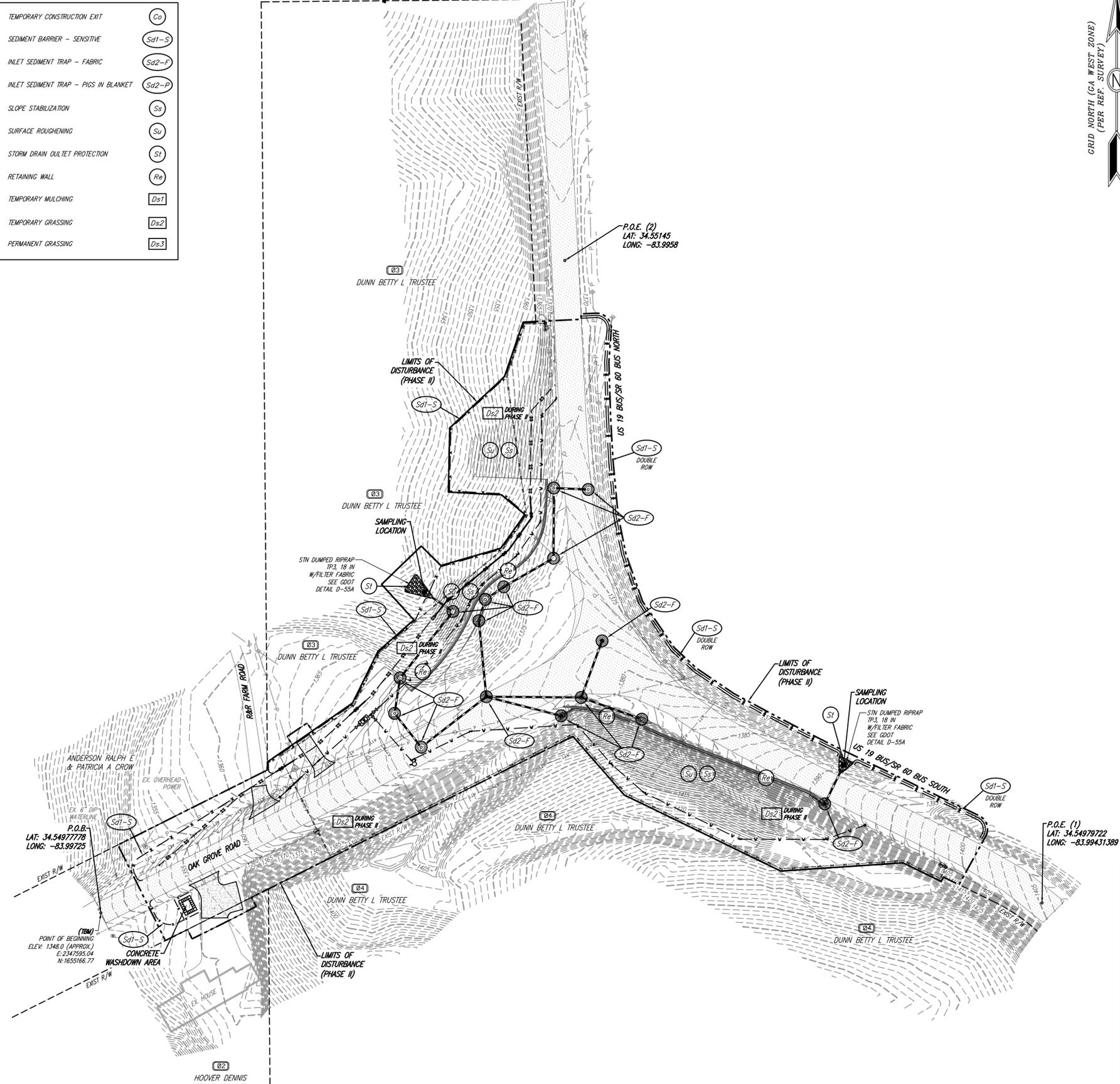
- ALL CONSTRUCTION WORK, MATERIALS, AND IMPROVEMENTS AT THIS SITE SHALL CONFORM WITH GDOT, LUMPKIN COUNTY, & CITY OF DAHLONEGA, GEORGIA REQUIREMENTS.
- ALL STRUCTURES WILL BE REQUIRED TO CONFORM TO THE STANDARD BUILDING CODES HORIZONTAL SEPARATION STANDARDS. APPROVAL OF THIS PERMIT WILL NOT JUSTIFY ANY DEVIATION IN HORIZONTAL SEPARATION STANDARDS AS ADOPTED AND AMENDED BY THE GEORGIA DEPARTMENT OF COMMUNITY AFFAIRS.
- CONTRACTORS SHALL CONDUCT ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION (OSHA) AND ALL LOCAL, STATE AND FEDERAL RULES AND REGULATIONS.
- ALL CONSTRUCTION STAKING ON THIS SITE SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A GEORGIA REGISTERED LAND SURVEYOR.
- MATTERS OF RECORD NOT SHOWN HEREON ARE EXCEPTED.
- THE UTILITIES AND STRUCTURES AS SHOWN ON THIS PLAN WERE FOUND PER ABOVE GROUND EXAMINATION OF THIS SITE, BASED ON VISIBLE INDICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXACT LOCATIONS AND ELEVATIONS OF ALL UNDERGROUND UTILITIES AND OTHER STRUCTURES BEFORE THE START OF CONSTRUCTION ON THIS PROJECT.
- IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ALL UTILITIES ARE AS NOTED IN THE PLANS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER AS SOON AS POSSIBLE.
- TOILET FACILITIES SHALL BE MADE AVAILABLE TO CONSTRUCTION WORKERS WITHIN 300' OF SITE.
- NO MATERIAL CAN BE BURIED ONSITE WITHOUT THE APPROVAL OF THE OWNER AND GEOTECHNICAL ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS AS ACCEPTABLE TO THE OWNER.
- CONTRACTOR IS TO REMOVE ALL ROCK, TOPSOIL, AND UNSUITABLE MATERIALS.
- MAXIMUM CUT OR FILL SLOPES SHALL BE 2 HORIZONTAL: 1 VERTICAL.
- THIS SITE DOES NOT CONTAIN WETLANDS.
- THIS SITE DOES NOT HAVE STATE WATERS REQUIRING UNDISTURBED BUFFERS. EXISTING FEATURES SHOWN BY DASHED LINES OR SHADED. PROPOSED FEATURES SHOWN BY SOLID OR BOLD LINES.
- CONTRACTOR RESPONSIBLE FOR PROTECTING ADJACENT AREAS AND SHALL BE RESPONSIBLE TO REPAIR ANY DAMAGE TO A CONDITION EQUAL TO OR GREATER THAN THE ORIGINAL CONDITION.
- ALL SIGNAGE AND STRIPING TO BE PROVIDED BY CONTRACTOR ACCORDING TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND OTHER GOVERNING MUNICIPAL STANDARDS AND SPECIFICATIONS, LATEST EDITIONS. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS ON THESE DRAWINGS WITH ALL COORDINATING DOCUMENTS AND NOTIFY ENGINEER OF ANY DISCREPANCIES. IF DISCREPANCIES ARE FOUND DURING CONSTRUCTION, THE CONTRACTOR IS TO STOP WORK IMMEDIATELY AND NOTIFY THE ENGINEER.
- ALL EXISTING MANHOLE COVERS, METER BOXES, AND OTHER UTILITY APPURTENANCES LOCATED WITHIN THE LIMITS OF WORK SHALL BE ADJUSTED SO THAT THEIR TOP SURFACES WILL BE FLUSH WITH FINISHED GRADE.
- ALL TEMPORARY STRIPING AND SIGNAGE NECESSARY TO MAINTAIN SAFE VEHICULAR AND PEDESTRIAN TRAFFIC FLOW DURING CONSTRUCTION SHALL BE FURNISHED, INSTALLED, AND MAINTAINED BY THE CONTRACTOR.
- MUTCD SIGNAGE AND CERTIFIED FLAGGERS SHALL BE EMPLOYED DURING ANY ROAD CLOSURE OR TRAFFIC DISRUPTION.

EROSION & SEDIMENT CONTROL NOTES:

- EROSION AND SEDIMENT SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTION BY OWNER, ENGINEER, OR INSPECTOR.
- THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
- MAINTENANCE OF ALL SOIL EROSION & SEDIMENTATION CONTROL MEASURES & PRACTICES WHETHER TEMPORARY OR PERMANENT SHALL BE AT ALL TIMES AT THE RESPONSIBILITY OF THE PROPERTY OWNER.
- APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY LUMPKIN COUNTY/CITY OF DAHLONEGA OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND AREA DISTURBANCE.
- ALL DISTURBED AREAS TO BE GRASSED. GRASSING TO BEGIN WITHIN 7 DAYS AFTER THE COMPLETION OF ANY LAND DISTURBANCE ACTIVITY, OR IF ACTIVITY IS DISCONTINUED FOR A PERIOD OF 7 DAYS OR LONGER.
- MAINTENANCE REQUIRED FOR EROSION CONTROL DEVICES. CLEAN OUT BEFORE ONE-HALF FULL.
- PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION EXIT SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE. ALL ENTRANCES TO THE SITE WHICH ARE NOT PROTECTED SHALL BE BARRICADED.
- IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION. CALL LUMPKIN COUNTY & CITY OF DAHLONEGA FOR AN INSPECTION PRIOR TO PERFORMING ANY OTHER WORK.
- THE LOCATION OF EROSION CONTROL DEVICES SHALL BE ADJUSTED AS CONSTRUCTION PROGRESSES IN ORDER TO MAINTAIN A FUNCTIONING EROSION CONTROL SYSTEM.
- EROSION CONTROL DEVICES SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND AT LEAST DAILY DURING PROLONGED PERIODS OF CONTINUOUS RAINFALLS.
- EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED AND THEN REMOVED SO THAT DRAINAGE FROM THE SITE IS NOT IMPEDED.
- ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY.

EROSION CONTROL LEGEND

TEMPORARY CONSTRUCTION EXIT	(Co)
SEDIMENT BARRIER - SENSITIVE	(Sd1-S)
INLET SEDIMENT TRAP - FABRIC	(Sd2-F)
INLET SEDIMENT TRAP - PIGS IN BLANKET	(Sd2-P)
SLOPE STABILIZATION	(Ss)
SURFACE ROUGHENING	(Su)
STORM DRAIN OUTLET PROTECTION	(St)
RETAINING WALL	(Re)
TEMPORARY MULCHING	(Ds1)
TEMPORARY GRASSING	(Ds2)
PERMANENT GRASSING	(Ds3)



OWNER/DEVELOPER
LUMPKIN COUNTY

24-HOUR CONTACT
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larry.reiter@lumpkincounty.gov

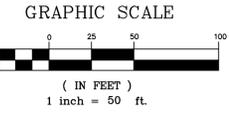


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NPDES CERTIFICATIONS:
I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GA0100003.
I CERTIFY THAT A QUALIFIED PERSON FROM DAVIS ENGINEERING & SURVEYING, LLC, EITHER THE PLAN PREPARER OR THE DESIGNER, HAS VISITED THE SUBJECT SITE PRIOR TO THE CREATION OF THIS PLAN.

Jason K. Davis
JASON K. DAVIS, P.E. GSWCC CERTIFICATION NO. 0000059573
REG. GA. 034135

LEGEND			
○	UTILITY POLE	UCS	OUTLET CONTROL STRUCTURE
IPF	IRON PIN FOUND	UG	UNDERGROUND
IN/F	NOW OR FORMERLY	RCP	REINFORCED CONCRETE PIPE
HB	HEADBAR	CMP	CORRUGATED METAL PIPE
LL	LAND LOT	CPP	CORRUGATED PLASTIC PIPE
LL.L	LAND LOT LINE	HDPE	HIGH DENSITY POLYETHYLENE
N.T.S.	NOT TO SCALE	SSMH	SANITARY SEWER MANHOLE
E.S.L	BUILDING SETBACK LINE	SS G/O	SANITARY SEWER CLEANOUT
TBM	TEMPORARY BENCH MARK	FH	FIRE HYDRANT
FB	PLAY BOOK	WM	WATER METER
FR	FACE	WV	WATER VALVE
R/W	RIGHT OF WAY	GV	GATE VALVE
C&G	CURB AND GUTTER	DC	DOUBLE DETECTOR CHECK
BC	BACK OF CURB	BFP	BACK FLOW PREVENTER
FC	FACE OF CURB	DBP	DOUBLE BROW PIPE
CONC.	CONCRETE	PVC	POLYVINYL CHLORIDE
EX	EXISTING	INV	INVERT
PRPP	PROPOSED	TW	TOP OF WALL
FTE	FINISHED FLOOR	BW	BOTTOM OF WALL
ELEV.	ELEVATION	S.S.E.	SANITARY SEWER EASEMENT
MIN	MINIMUM	D.E.	DRAINAGE EASEMENT
LF	LINEAR FEET	—	TENDE
SF	SF SQUARE FEET	—	SILT FENCE
TRP	TYPICAL	—	POWER
W	WATER	—	WATER
SS	SANITARY SEWER	—	SANITARY SEWER
PI	PEDESTAL INLET	—	BUILDING SETBACK LINE
JB	JUNCTION BOX		



DES DAVIS
ENGINEERING & SURVEYING
133 PROMINENCE COURT
SUITE 210
DAWSONVILLE, GA 30534
PHONE: (706) 265-1234
DAVISENGINEERS.COM

REGISTERED PROFESSIONAL ENGINEER
Jason K. Davis
No. 034135
4/20/21

REVISION	DATE	DESCRIPTION
1	1/7/21	INITIAL PLAN SET
2	3/12/21	UPDATED UTILITIES & EC QUANTITIES
3	3/31/21	REVISE WATER/SEWER PLACEMENT
4	4/20/21	REVISE WATER/GAS CROSSING

ES & PC PLAN PHASE II
OAK GROVE ROAD ROUNDABOUT
LAND LOTS 853, 898
12TH DISTRICT
LUMPKIN COUNTY, GA

DRAWN BY: GRJ
CHECKED BY: JKD
LAND LOT: 853,898
DISTRICT: 12TH
SECTION: —
CITY: DAHLONEGA
COUNTY: LUMPKIN
DATE: 1/7/21

SHEET NO.
5 of 9
PROJECT NO.
2020-158

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TOTAL AREA= 3.56 ACRES
 DISTURBED AREA= 3.28 ACRES

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CONTOUR INTERVAL = 2'

PROJECT BENCHMARK:
 TBM USED IS POINT OF PROJECT BEGINNING ALONG C/L OF OAK GROVE ROAD
 ELEV: 1348.0 (APPROX.) E: 2347593.04, N: 1655166.77

NO PORTION OF THIS SITE IS LOCATED WITHIN THE 100-YEAR FLOOD PRONE AREA AS PER FLOOD INSURANCE RATE MAP NO. 13187C01610, DATED 04/04/2018.

GENERAL NOTES:

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- 13) THIS SITE DOES NOT CONTAIN WETLANDS.
- 14) THIS SITE DOES NOT HAVE STATE WATERS REQUIRING UNDISTURBED BUFFERS.
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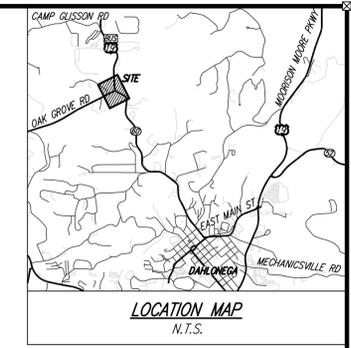
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- 6) MAINTENANCE REQUIRED FOR EROSION CONTROL DEVICES. CLEAN OUT BEFORE ONE-HALF FULL.
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- 8) IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION. CALL LUMPKIN COUNTY & CITY OF DAHLONEGA FOR AN INSPECTION PRIOR TO PERFORMING ANY OTHER WORK.
- 9) THE LOCATION OF EROSION CONTROL DEVICES SHALL BE ADJUSTED AS CONSTRUCTION PROGRESSES IN ORDER TO MAINTAIN A FUNCTIONING EROSION CONTROL SYSTEM.
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EROSION CONTROL LEGEND

TEMPORARY CONSTRUCTION EXIT	(Co)
SEDIMENT BARRIER - SENSITIVE	(Sd1-S)
INLET SEDIMENT TRAP - FABRIC	(Sd2-F)
INLET SEDIMENT TRAP - PIGS IN BLANKET	(Sd2-P)
SLOPE STABILIZATION	(Ss)
SURFACE ROUGHENING	(Su)
STORM DRAIN OUTLET PROTECTION	(St)
RETAINING WALL	(Re)
TEMPORARY MULCHING	(Ds1)
TEMPORARY GRASSING	(Ds2)
PERMANENT GRASSING	(Ds3)

ALL EROSION CONTROL BMPs TO BE REMOVED ONCE SITE IS FULLY STABILIZED



OWNER/DEVELOPER
LUMPKIN COUNTY

24-HOUR CONTACT
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MOBILE: (706) 344-7961
larry.reiter@lumpkincounty.gov



IF ANY CONFLICTS, DISCREPANCIES, OR ANY OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE FURTHER OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.

NPDES CERTIFICATIONS:

I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GART00003.

I CERTIFY THAT A QUALIFIED PERSON FROM DAVIS ENGINEERING & SURVEYING, LLC, EITHER THE PLAN PREPARER OR THE DESIGNER, HAS VISITED THE SUBJECT SITE PRIOR TO THE CREATION OF THIS PLAN.

Jason K. Davis
 JASON K. DAVIS, P.E. GSWCC CERTIFICATION NO. 0000059573
 REG. GA. 034135

DES DAVIS
 ENGINEERING & SURVEYING
 133 PROMINENCE COURT
 SUITE 210
 DAWSONVILLE, GA 30534
 PHONE: (706) 265-1234
 DAVISENGINEERS.COM

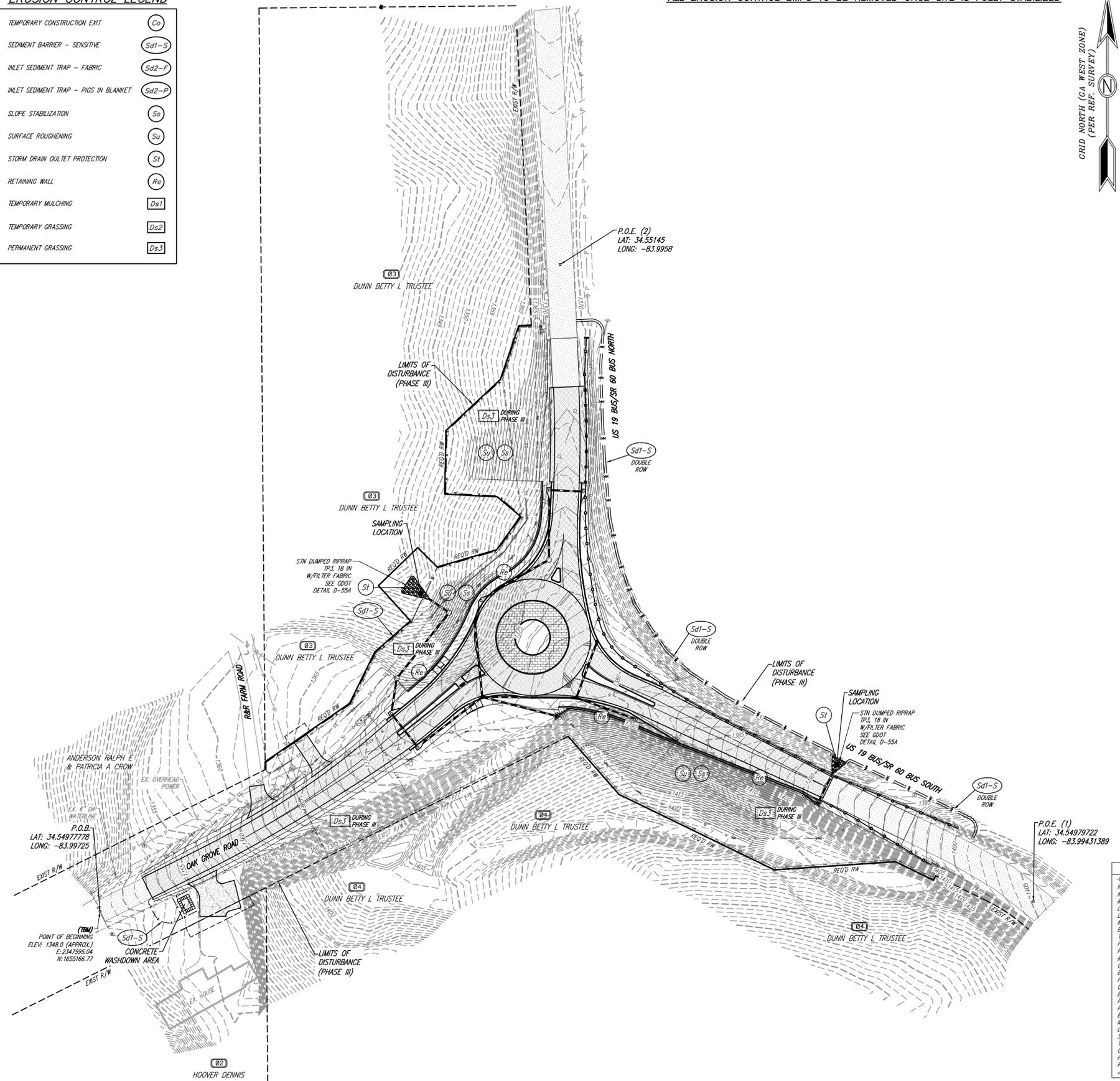
REGISTERED PROFESSIONAL ENGINEER
 No. 034135
 JASON K. DAVIS
 4/20/21

REVISION	DATE	DESCRIPTION
1	1/7/21	INITIAL PLAN SET
2	3/12/21	UPDATED UTILITIES & EC QUANTITIES
3	3/31/21	REVISE WATER/SEWER PLACEMENT
4	4/20/21	REVISE WATER/GAS CROSSING

ES & PC PLAN PHASE III
 OAK GROVE ROAD ROUNDABOUT
 LAND LOTS 853, 898
 12TH DISTRICT
 LUMPKIN COUNTY, GA

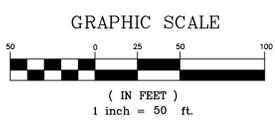
DRAWN BY: GRJ
 CHECKED BY: JKD
 LAND LOT: 853,898
 DISTRICT: 12TH
 SECTION: -
 CITY: DAHLONEGA
 COUNTY: LUMPKIN
 DATE: 1/7/21

SHEET NO.
 6 OF 9
 PROJECT NO.
 2020-158



LEGEND

○	UTILITY POLE	□	OUTLET CONTROL STRUCTURE
○	IRON PIN FOUND	□	UNDERGROUND
○	NOW OR FORMERLY	□	REINFORCED CONCRETE PIPE
○	HEAD	□	CORRUGATED METAL PIPE
○	LAND LOT	□	CORRUGATED PLASTIC PIPE
○	LAND LOT LINE	□	HDPPE HIGH DENSITY POLYETHYLENE
○	N.T.S. NOT TO SCALE	□	SMHM SANITARY SEWER MANHOLE
○	E.S.L. BUILDING SETBACK LINE	□	SS G/O SANITARY SEWER CLEANOUT
○	TEMPORARY BENCH MARK	□	FW FIRE HYDRANT
○	PLAY BOOK	□	WM WATER METER
○	FACE	□	WW WATER VALVE
○	R/W RIGHT OF WAY	□	GV GATE VALVE
○	C&G CURB AND GUTTER	□	DDC DOUBLE DETECTOR CHECK
○	BC BACK OF CURB	□	BFP BACK FLOW PREVENTER
○	CONC. CONCRETE	□	DBP DUCTILE IRON PIPE
○	EXIST. EXISTING	□	PVC POLYVINYL CHLORIDE
○	PROPP. PROPOSED	□	INV INVERT
○	FINISHED FLOOR	□	TW TOP OF WALL
○	ELEV. ELEVATION	□	BW BOTTOM OF WALL
○	MIN. MINIMUM	□	S.S.E. SANITARY SEWER EASEMENT
○	LF LINEAR FEET	□	D.E. DRAINAGE EASEMENT
○	SF SF SQUARE FEET	□	— SILT FENCE
○	— TYPICAL	□	— POWER
○	— WATER	□	— WATER
○	— SANITARY SEWER	□	— SANITARY SEWER
○	— PEDESTAL INLET	□	— BUILDING SETBACK LINE
○	— JUNCTION BOX	□	



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- SEE ES&PC DETAILS SHEET.
- SEE ES&PC PLAN SHEETS.
- 24-HOUR CONTACT: **LARRY REITER (706) 344-7961**
- PRIMARY PERMITTEE: **LUMPKIN COUNTY GOVERNMENT C/O LARRY REITER**
ADDRESS: **25 SHORT STREET, SUITE 10, DAHLONEGA, GA 30533**
EMAIL: **larry.reiter@lumpkincounty.gov**
PHONE: **(706) 864-3122**
- THE PROPOSED PROJECT IS LOCATED ON **3.56 ACRES** AND WILL CONSIST OF A DISTURBED AREA OF **3.28 ACRES**.
- CONSTRUCTION COORDINATES:
P.O.B.: **LAF. 34.5497778, LONG. -83.99725**
P.O.E. (1) **LAF. 34.5497922, LONG. -83.9943139**
P.O.E. (2) **LAF. 34.55145, LONG. -83.9958**
- SEE ES&PC SHEETS 6-8.
- THE PROPOSED INTERSECTION IMPROVEMENT INCLUDES CONSTRUCTION OF A GDOT ROUNDABOUT WITH STORMWATER MANAGEMENT, UTILITY RELOCATION, AND EROSION CONTROL BMPs.
- SEE SHEETS 6-8.
- THE INITIAL RECEIVING WATER(S) FOR THIS PROJECT IS **YAHOOA CREEK LOCATED APPROX. 210' TO THE NORTHEAST OF THE SITE**. THERE WILL BE NO ADVERSE IMPACT TO DOWNSTREAM PROPERTIES BY THE POST-DEVELOPMENT RUNOFF FROM THE SITE.
- I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

Jason K Davis 4/20/2021
P.E. 34135; GSWCC CERTIFICATION #59573 DATE

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

Jason K Davis 4/20/2021
P.E. 34135; GSWCC CERTIFICATION #59573 DATE

I CERTIFY THAT THE PERMITTEE'S ES&PC PLAN PROVIDES FOR REPRESENTATIVE SAMPLING AS STATED ON PART IV.D.6.C.(3) PAGE 37 OF THE PERMIT AS APPLICABLE.

Jason K Davis 4/20/2021
P.E. 34135; GSWCC CERTIFICATION #59573 DATE

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION IN ACCORDANCE WITH PART IV.A.5 OF THIS PERMIT.
NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS. THIS SITE DOES NOT HAVE STATE WATERS REQUIRING AN UNDISTURBED BUFFER. THIS SITE DOES NOT CONTAIN WETLANDS.
THERE ARE NO BUFFER ENCROACHMENTS FOR THIS SITE.
ANY AMENDMENTS OR REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
WASTE MATERIALS SHALL NOT BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY SECTION 404 PERMIT.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND-DISTURBING ACTIVITIES.
EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
THIS PROJECT DOES NOT DISCHARGE WITHIN A LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED OF A BIOTIC IMPAIRED STREAM SEGMENT.
TMDL IMPLEMENTATION PLAN NOT APPLICABLE.
CONCRETE WASHDOWN AREA SHOWN ON ES&PC SHEETS. WASHOUT OF THE DRUM AT THE CONSTRUCTION SITE IS PROHIBITED.
SOIL CLEANUP AND CONTROL PRACTICES:
LOCAL, STATE AND MANUFACTURERS RECOMMENDED METHODS FOR SOIL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL. MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THIS MATERIAL STORAGE AREA. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, GAITERS, SAND, SANDWICH LABELED PLASTIC AND METAL WASTE CONTAINERS.
SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS. FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL (NRC) WILL BE CONTACTED AS REQUIRED. THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN, IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ON SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTER-MEASURES PLAN PREPARED BY THAT LICENSED ENGINEER.

APPROPRIATE CONTROLS AND MEASURES WILL BE IMPLEMENTED ON THE CONSTRUCTION SITE TO CONTROL POLLUTANTS IN STORM WATER AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. A DENSE AND WOOLY VEGETATIVE COVER WILL BE ESTABLISHED OVER THE CONTRIBUTING PERVIOUS DRAINAGE AREA AS WELL AS INFILTRATION OF THE FIRST 1" OF RAINFALL OVER THE IMPERVIOUS AREAS.
AT A MINIMUM, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE PLASTIC SHEETING TO COVER BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS TO MINIMIZE EXPOSURE TO PRECIPITATION AND TO STORMWATER.

PRODUCT SPECIFIC PRACTICES

- PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLES AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE WILL BE LOCATED AWAY FROM STATE WATERS, NATURAL DRAINS, AND STORM WATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.
- PAINTS/PAINSHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORM WATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS, AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- CONCRETE MIX WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON-SITE.
- FERTILIZER/HERBICIDES - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.
- BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR COVERED ON-SITE. ALL SUCH MATERIALS WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

CONSTRUCTION SCHEDULE

	WEEKS																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
CLEARING & GRUBBING																		
EROSION CONTROL INSTALLATION																		
EARTHWORK (CUT & FILL)																		
GRASSING (LIMIT EXPOSURE TO 7 DAYS)																		
STORM PIPE INSTALLATION																		
PAVING																		
FINISH GRADING																		
FINAL STABILIZATION																		

OWNER MAY MODIFY SCHEDULE WITH APPROVAL FROM LUMPKIN COUNTY & CITY OF DAHLONEGA

30. INSPECTIONS

A. PERMITTEE REQUIREMENTS:
(1). EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT; (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING; AND (C) MEASURE RAINFALL ONCE EACH 24 HOUR PERIOD AT THE SITE. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.
(2). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 5:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE THAT HAVE NOT UNDERGONE FINAL STABILIZATION; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT UNDERGONE FINAL STABILIZATION; AND (C) STRUCTURAL CONTROL MEASURES, EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION, THE PERMITTEE MUST COMPLY WITH PART IV.D.4.A.(3). THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

(3). CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S).

(4). BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(5). A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(4) OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN AND THIS PERMIT. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G. OF THIS PERMIT.

31. SAMPLING FREQUENCY:

(1). THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, SAMPLES MUST BE TAKEN WITHIN FORTY-FIVE (45) MINUTES OF: (A) THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT, IF THE STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL HAS BEGUN AT OR PRIOR TO THE ACCUMULATION, OR (B) THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER OR FROM A MONITORED OUTFALL, IF THE DISCHARGE BEGINS AFTER THE ACCUMULATION OF THE MINIMUM AMOUNT OF RAINFALL FOR THE QUALIFYING EVENT.

(2). HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

(3). SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING EVENTS: (A). FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING STREAM, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING DURING NORMAL BUSINESS HOURS* (MONDAY THRU FRIDAY, 8:00 AM TO 5:00 PM AND SATURDAY 8:00 AM TO 5:00 PM, EXCLUDING ALL NON-WORKING FEDERAL HOLIDAYS), WHEN CONSTRUCTION ACTIVITY IS BEING CONDUCTED BY THE PRIMARY PERMITTEE THAT OCCURS AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST; (B). EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR MONITORING AT ANY TIME OF THE DAY OR WEEK.

REPORTING:

1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT A SUMMARY OF THE MONITORING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAME REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
2. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
3. ALL MONITORING RESULTS SHALL INCLUDE THE FOLLOWING INFORMATION:
A. THE DATE, EXACT PLACE, AND TIME OF SAMPLING OR MEASUREMENTS;
B. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
C. THE DATE(S) ANALYSES WERE PERFORMED;
D. THE TIME(S) ANALYSES WERE INITIATED;
E. THE NAME(S) OF THE INDIVIDUAL(S) WHO PERFORMED THE ANALYSES;
F. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED; AND
G. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC., USED TO DETERMINE THESE RESULTS.
H. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU."

32. RETENTION OF RECORDS:

1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
A. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
B. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
C. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5 OF THIS PERMIT;
D. A COPY OF ALL MONITORING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
E. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A OF THIS PERMIT;
F. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2 OF THIS PERMIT; AND
G. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(1)(C) OF THIS PERMIT.
2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, REPORTS, PLANS, MONITORING REPORTS, MONITORING INFORMATION, INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

33. SAMPLING REQUIREMENTS:

THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATER(S) OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THIS PARAGRAPH SHALL NOT APPLY TO ANY LAND DISTURBANCE ASSOCIATED WITH THE CONSTRUCTION OF SINGLE-FAMILY HOMES WHICH ARE NOT PART OF A SUBDIVISION OR PLANNED COMMON DEVELOPMENT UNLESS FIVE (5) ACRES OR MORE WILL BE DISTURBED. THE FOLLOWING PROCEDURES CONSTITUTE EPD'S GUIDELINES FOR SAMPLING TURBIDITY:

A. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:
(1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAN A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITTEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;
(2) A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;
(3) WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE MONITORED, A RATIONALE MUST BE INCLUDED FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND
(4) ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.
B. SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.
(1) SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
(2) SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
(3) LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
(4) MANUAL, AUTOMATIC OR RISING STAKE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
(5) SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

C. SAMPLING POINTS
(1) FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:
(A) THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
(B) THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE DOWNSTREAM TURBIDITY VALUE.
(C) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).
(D) CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.
(E) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.
(F) THE SAMPLES SHOULD BE KEPT FREE FROM FLOATING DEBRIS.
(G) PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR EQUIVALENT PERMANENT STABILIZATION MEASURES (SUCH AS THE USE OF RIP RAP, GABIONS, PERMANENT MULCHES OR GEOTEXTILES) HAVE BEEN USED. PERMANENT VEGETATION SHALL CONSIST OF PLANTED TREES, SHRUBS, PERENNIAL WILDS, A CROP OF PERENNIAL VEGETATION APPROPRIATE FOR THE TIME OF YEAR AND REGION, OR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION. FINAL STABILIZATION APPLIES TO EACH PHASE OF CONSTRUCTION.
(H) ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.

34.

APPENDIX B
NEPHELOMETRIC TURBIDITY UNIT (NTU) TABLES

TROUT STREAMS

SURFACE WATER DRAINAGE AREA, SQUARE MILES	0-4.99	5-9.99	10-24.99	25-49.99	50-49.99	100-249.99	250-499.99	500+
1.00-10	25	50	75	150	300	500	500	500
10.01-25	25	50	75	150	200	500	500	500
25.01-50	25	50	75	150	100	300	500	500
50.01-100	20	25	25	35	59	75	150	300
100.01+	20	20	25	25	50	60	100	100

WATER SURROUNDING WARM WATER FISHERIES

SURFACE WATER DRAINAGE AREA, SQUARE MILES	0-4.99	5-9.99	10-24.99	25-49.99	50-49.99	100-249.99	250-499.99	500+
1.00-10	25	50	75	150	300	500	500	500
10.01-25	25	50	75	150	200	500	500	500
25.01-50	25	50	75	150	100	300	500	500
50.01-100	20	25	25	35	59	75	150	300
100.01+	20	20	25	25	50	60	100	100

- SEE ES&PC SHEETS.
- EROSION AND SEDIMENT CONTROL. INITIALLY, PERIMETER TYPE S SILT FENCE (Sd1), DISTURBED AREA STABILIZATION (Ds1) AND (Ds2), AND CONSTRUCTION EXITS (Co) WILL BE INSTALLED ALONG WITH TEMPORARY SEDIMENT TRAP AS SHOWN ON THE PHASE I ES&PC PLAN. TEMPORARY SEEDING (Ds2) SHALL TAKE PLACE FOR INTERMEDIATE STABILIZATION WITH SURFACE ROUGHENING (Su), SLOPE STABILIZATION (Ss), RETAINING WALLS (Rw), AND INLET SEDIMENT TRAPS (Sd2-F). THE FINAL PHASE WILL INCLUDE STORM DRAIN OUTLET PROTECTION (Sd2-P), SLOPE STABILIZATION (Ss), AND FINAL GRASSING (Ds3).
- SEE ES&PC SHEETS.
- 2 FOOT CONTOURS SHOWN.
- ALTERNATIVE BMPs N/A
- ALTERNATIVE BMPs N/A
- SEE ES&PC SHEETS.
- NO STATE WATERS OR WETLANDS LOCATED WITHIN 200' OF THE LIMITS OF CONSTRUCTION THAT REQUIRE AN UNDISTURBED BUFFER.
- SEE SHEET B FOR DELINEATION AND ACREAGE OF CONTRIBUTING DRAINAGE BASINS.
- SEE SHEET B ON-SITE DRAINAGE AND OFF-SITE WATERSHEDS USING USGS 1" 2000' TOPOGRAPHICAL SHEETS.
- SEE ES&PC SHEETS.
- SEE ES&PC SHEETS FOR STORMWATER DISCHARGE POINTS.

SOIL CHARACTERISTICS

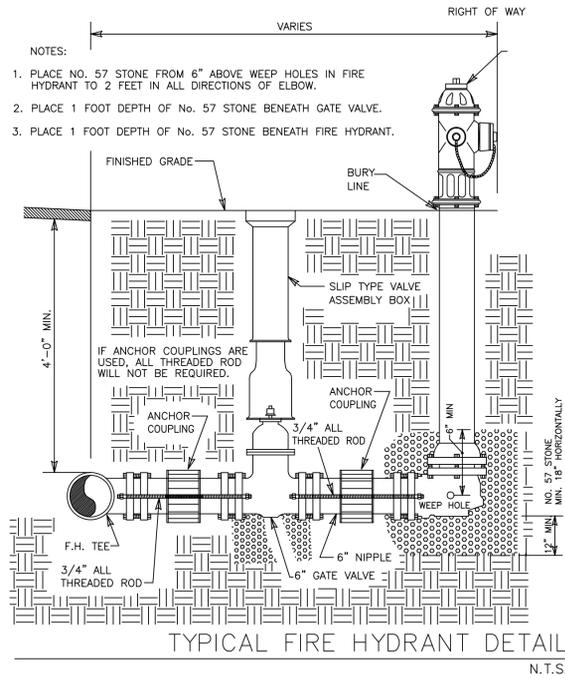
SOIL SYMBOL	NAME	SLOPE	LIMITATIONS	PERMEABILITY	HYDRO SOIL GROUP
RaE	RABUN LOAM	15-25%	WELL DRAINED	0.20-1.98	B
TdG	TALLAPOSSA SOILS	25-70%	WELL DRAINED	0.00-0.06	D
HIE	HAYESVILLE SANDY LOAM	10-25%	WELL DRAINED	0.57-1.98	B
MCG	MUSSELLA COBBLY LOAM	25-70%	WELL DRAINED	0.00-1.98	D
MCE	MUSSELLA COBBLY LOAM	6-25%	WELL DRAINED	0.00-1.98	D

SOIL CHARACTERISTICS TAKEN FROM USDA WEB SOIL SURVEY

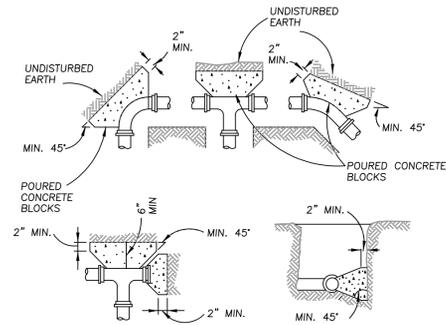
- SEE ES&PC SHEETS.
- SEE ES&PC SHEETS.
- SEE ES&PC SHEETS
- SEE ES&PC SHEETS SHEET.

EROSION, SEDIMENTATION & POLLUTION CONTROL LEGEND

Bf BUFFER ZONE	Dn1 TEMPORARY DOWNDRAIN STRUCTURE
Cs COASTAL DUNE STABILIZATION	Dn2 TEMPORARY DOWNDRAIN STRUCTURE
Dst1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	Fr FILTER RING
Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDING)	Ga GABION
Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)	Gr GRADE STABILIZATION STRUCTURE
Ds4 DISTURBED AREA STABILIZATION (WITH SOBBING VEGETATION)	Lv LEVEL SPREADER
Du DUST CONTROL ON DISTURBED AREAS	Rd ROCK FILTER DAM
Ss EROSION CONTROL MATTING AND BLANKETS	Re RETAINING WALL
Pm POLYACRYLAMIDE (PAM)	Rt RETROFIT
Sb STREAMBANK STABILIZATION (WITH PERMANENT VEGETATION)	Sd1 SEDIMENT BARRIER
Tb TACKIFIERS AND BINDERS	Sd2 INLET SEDIMENT TRAP
Ch CHECK DAM	Sd2-F INLET SEDIMENT TRAP
<	



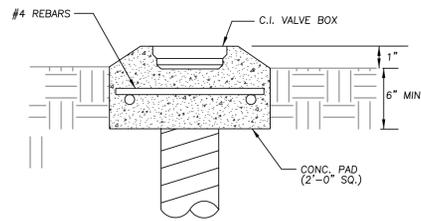
TYPICAL FIRE HYDRANT DETAIL
N.T.S.



MINIMUM BEARING AREAS IN SQUARE FEET FOR THRUST BLOCKS

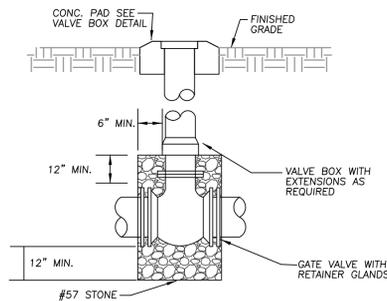
PIPE SIZE	TEES	90° BEND	45° BEND	22.5° BEND	VALVELS & PLUGS
2"-4"	1	1	1	1	1
6"	3	4	2	1	3
8"	5	7	4	2	5
10"	9	12	6	3	9
12"	12	16	9	5	12

TYPICAL THRUST BLOCKING DETAIL
NOT TO SCALE

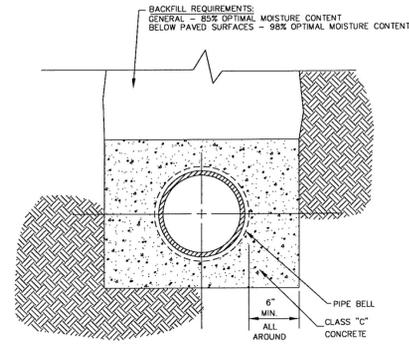
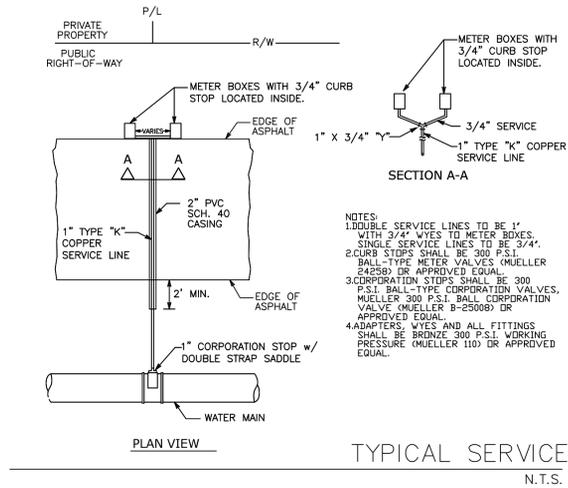


IF PRECAST CONCRETE PAD IS FURNISHED, CONTRACTOR SHALL INSTALL APPROVED GROUT BETWEEN VALVE BOX AND PAD.

VALVE BOX PAD
DETAIL
NOT TO SCALE

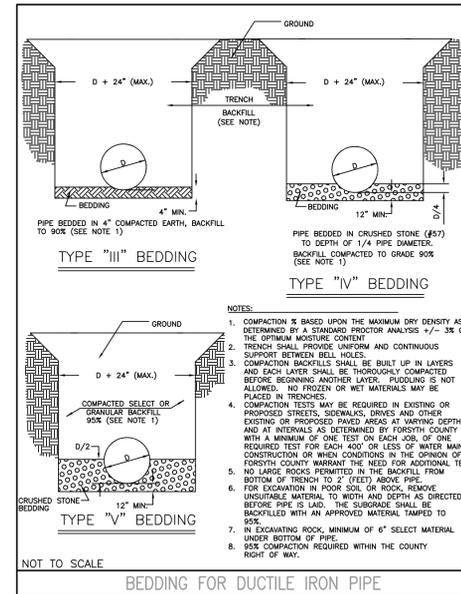
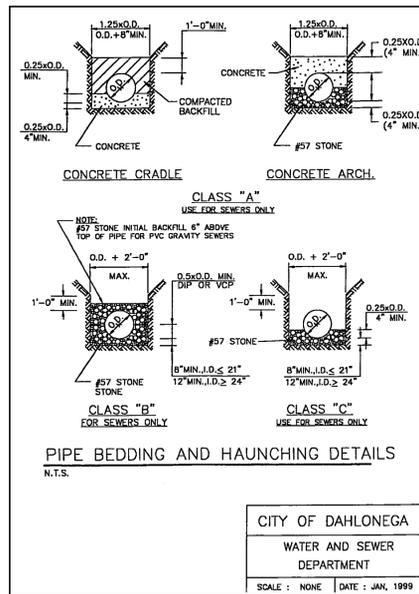


GATE VALVE INSTALLATION
DETAIL
NOT TO SCALE



NOTES:
 1. CONCRETE ENCASEMENT SHALL BE USED ON SANITARY SEWER FORCE MAIN PIPING WHERE INSTALLATION CANNOT MAINTAIN MINIMUM TEN (10) FEET SEPARATION FROM POTABLE WATER LINES.

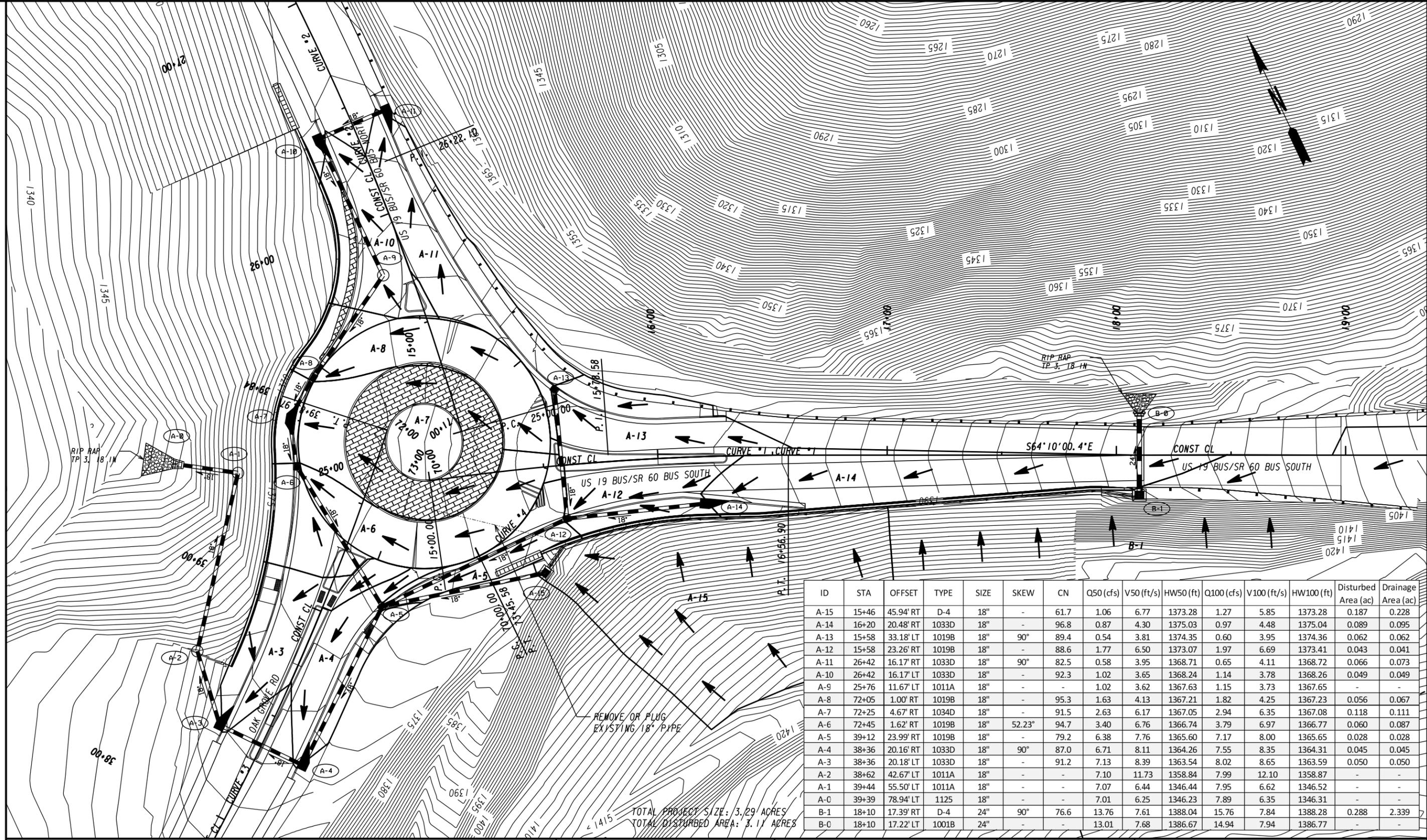
CONCRETE ENCASEMENT
N.T.S.



REVISION	DATE	DESCRIPTION
1	1/7/21	INITIAL PLAN SET
2	3/12/21	UPDATED UTILITIES & EC QUANTITIES
3	3/31/21	REVISE WATER/SEWER PLACEMENT
4	4/20/21	REVISE WATER/GAS CROSSING

WATER & SEWER DETAILS
 OAK GROVE ROAD ROUNDABOUT
 LAND LOTS 853, 898
 12TH DISTRICT
 LUMPKIN COUNTY, GA

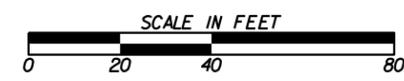
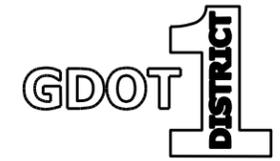
DRAWN BY:	GRJ
CHECKED BY:	JKD
LAND LOT:	853,898
DISTRICT:	12TH
SECTION:	-
CITY:	DAHLONEGA
COUNTY:	LUMPKIN
DATE:	1/7/21



TOTAL PROJECT SIZE: 3.29 ACRES
TOTAL DISTURBED AREA: 3.11 ACRES

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

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

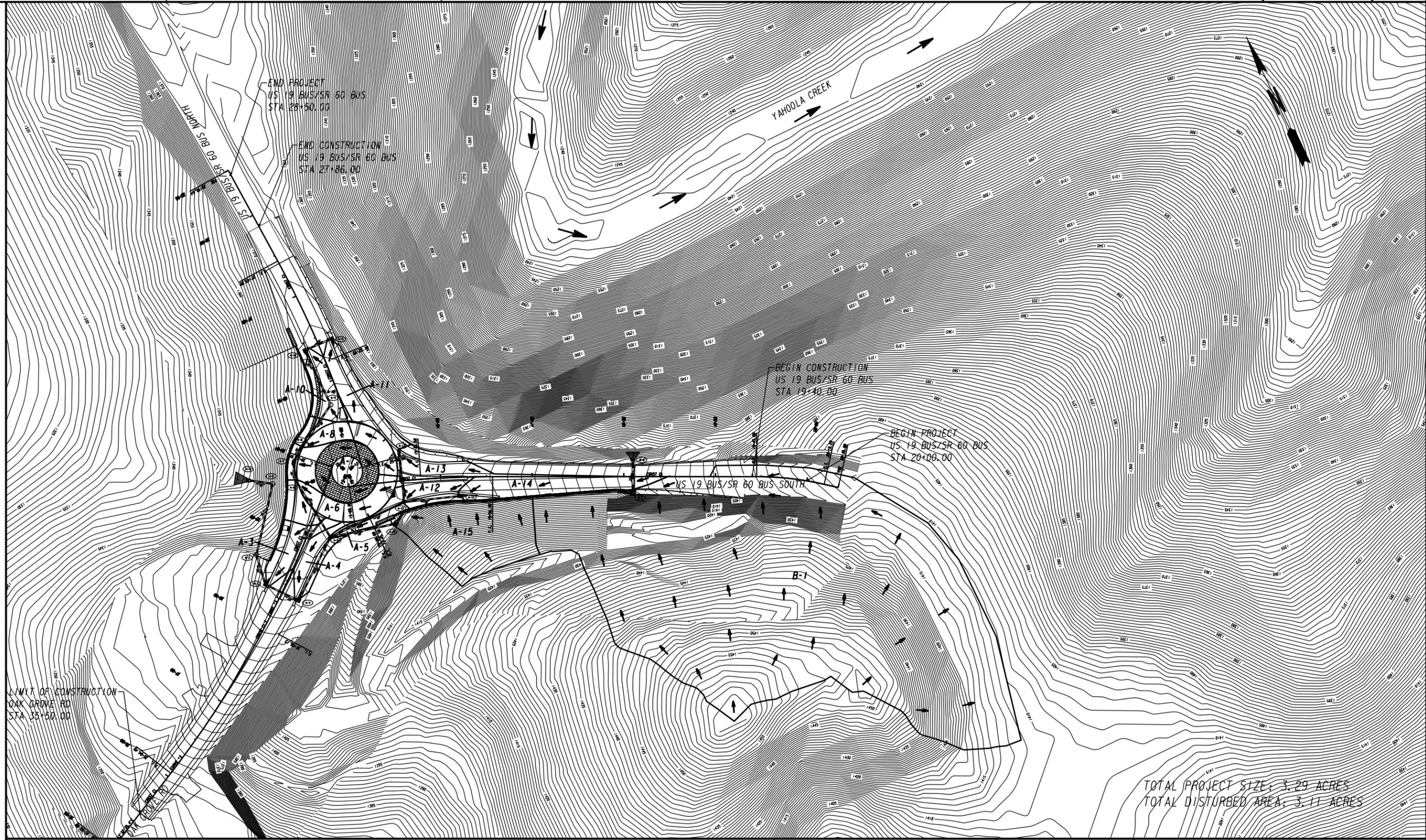


REVISION DATES

DRAINAGE AREA MAP

US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

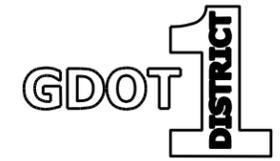
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TOTAL PROJECT SIZE: 3.29 ACRES
 TOTAL DISTURBED AREA: 3.11 ACRES

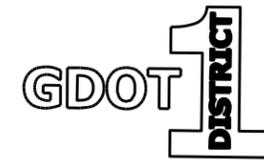
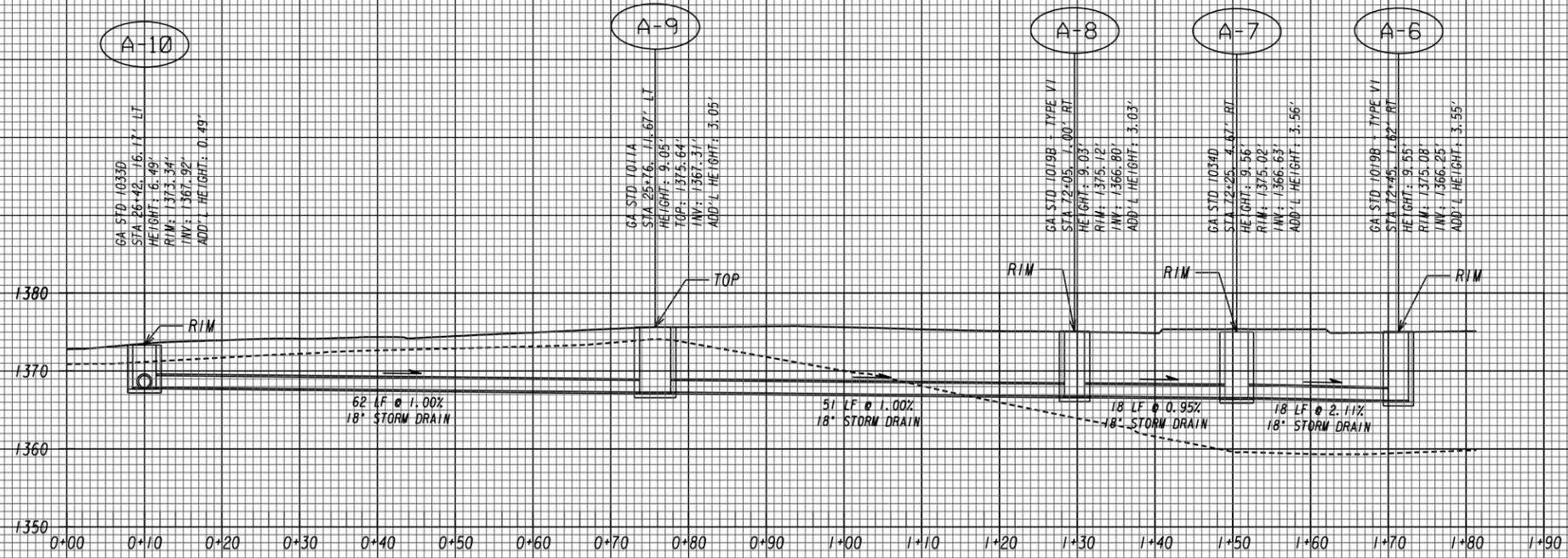
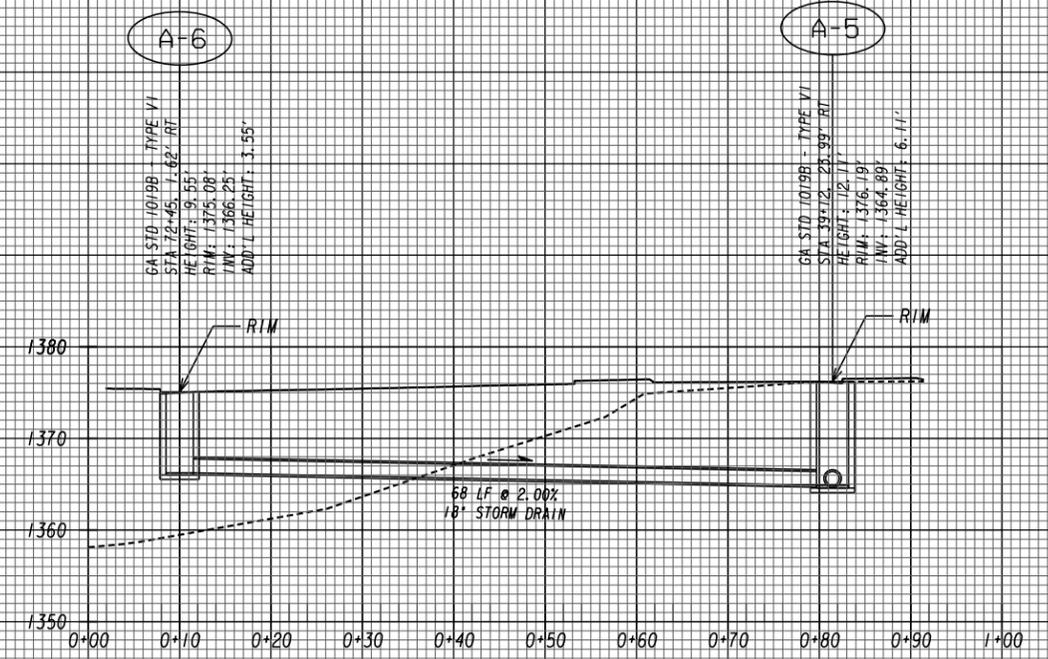
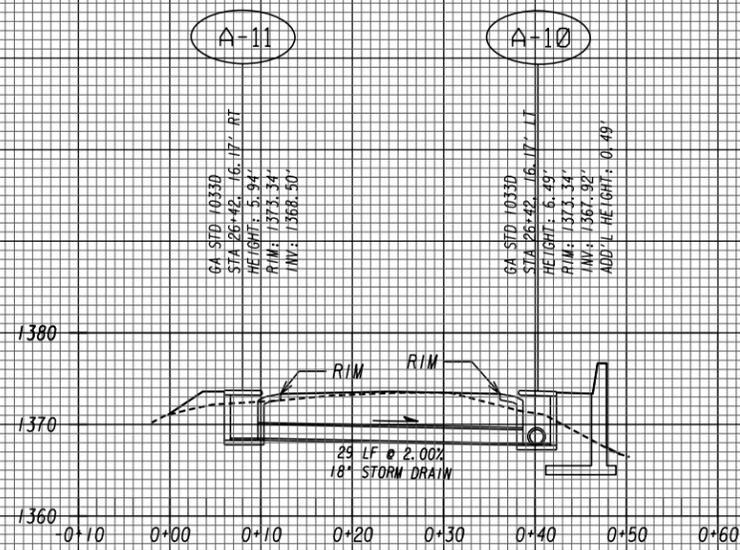
PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

---e--- BEGIN LIMIT OF ACCESS.....BLA
 ---f--- END LIMIT OF ACCESS.....ELA
 ---c--- REQ'D LIMIT OF ACCESS
 ---f--- REQ'D LIMIT OF ACCESS & R/W
 [Hatched Box] ORANGE BARRIER FENCE
 [Dotted Box] ESA - ENV. SENSITIVE AREA
 (SEE ERIT TABLE)



REVISION DATES	

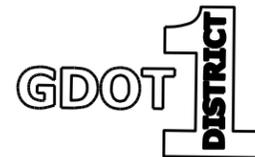
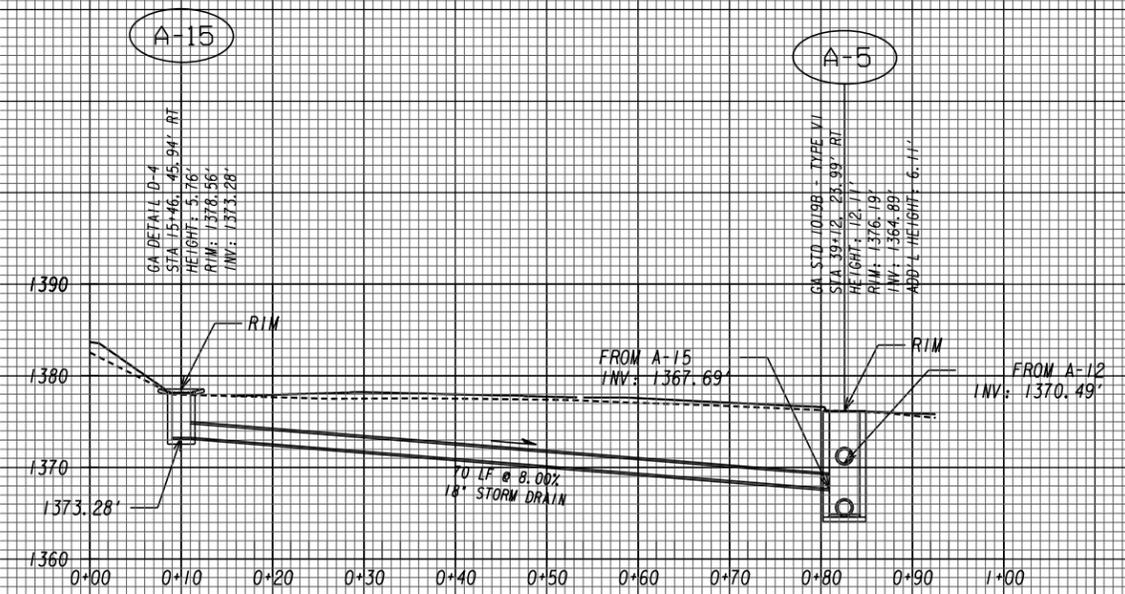
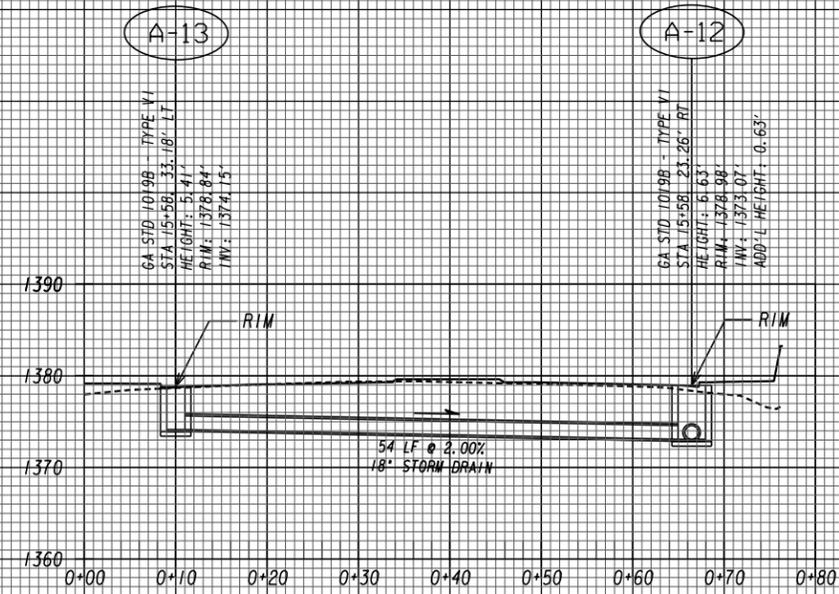
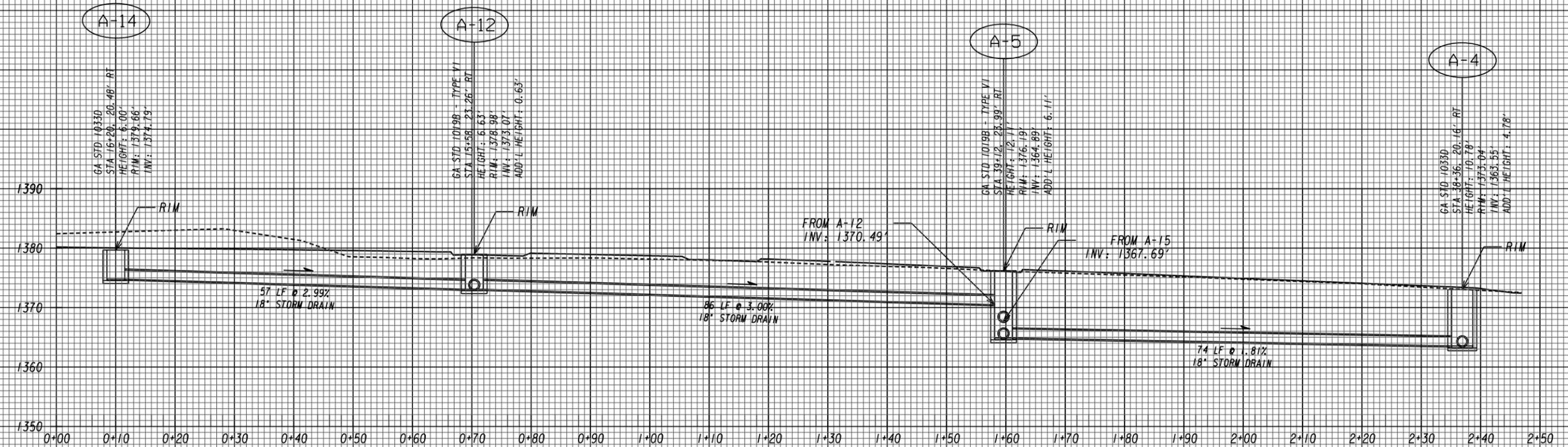
DRAINAGE AREA MAP		
US 19 BUS/SR 60 BUS @ OAK GROVE RD LUMPKIN COUNTY		
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BACKCHECKED:	DATE:	21-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



REVISION DATES

DRAINAGE PROFILES
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

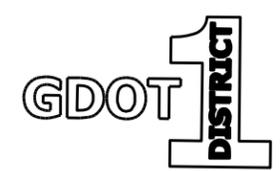
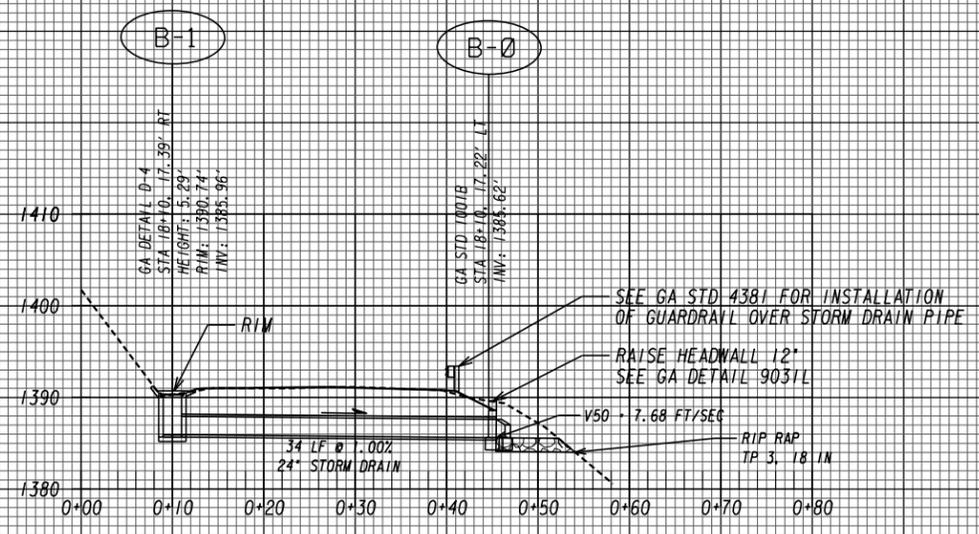
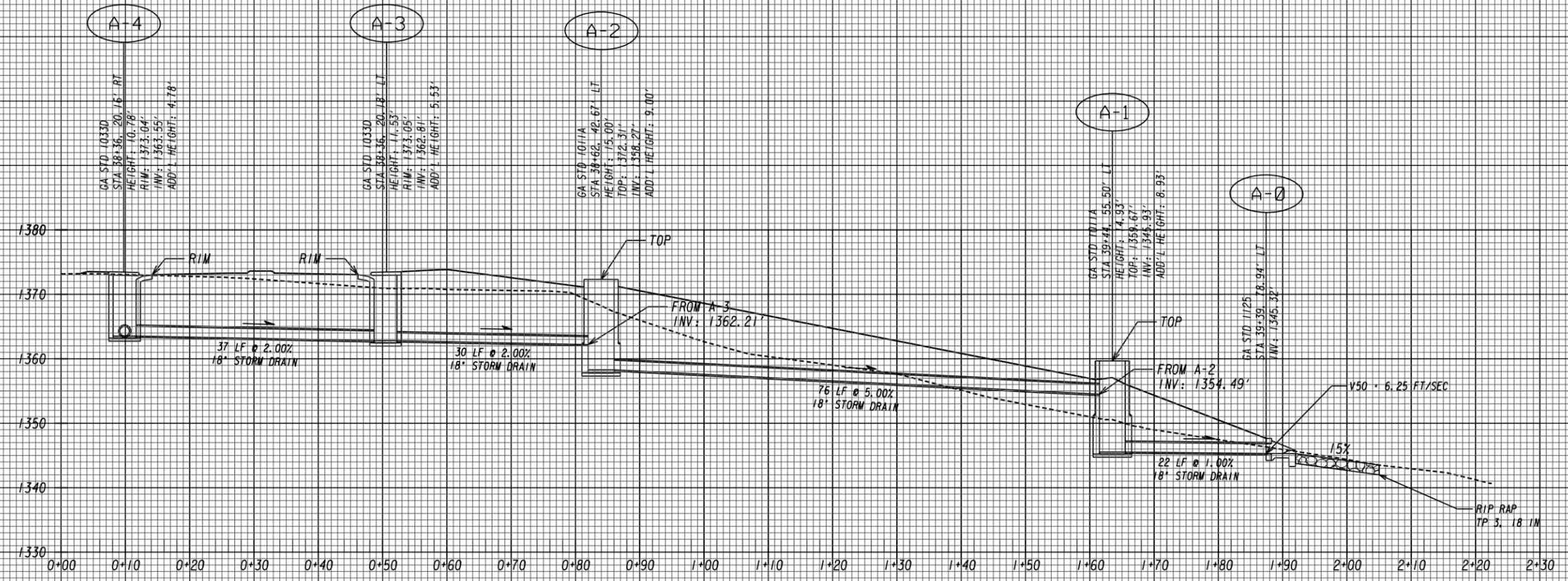
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REVISION DATES

DRAINAGE PROFILES
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

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VERIFIED:	DATE:	

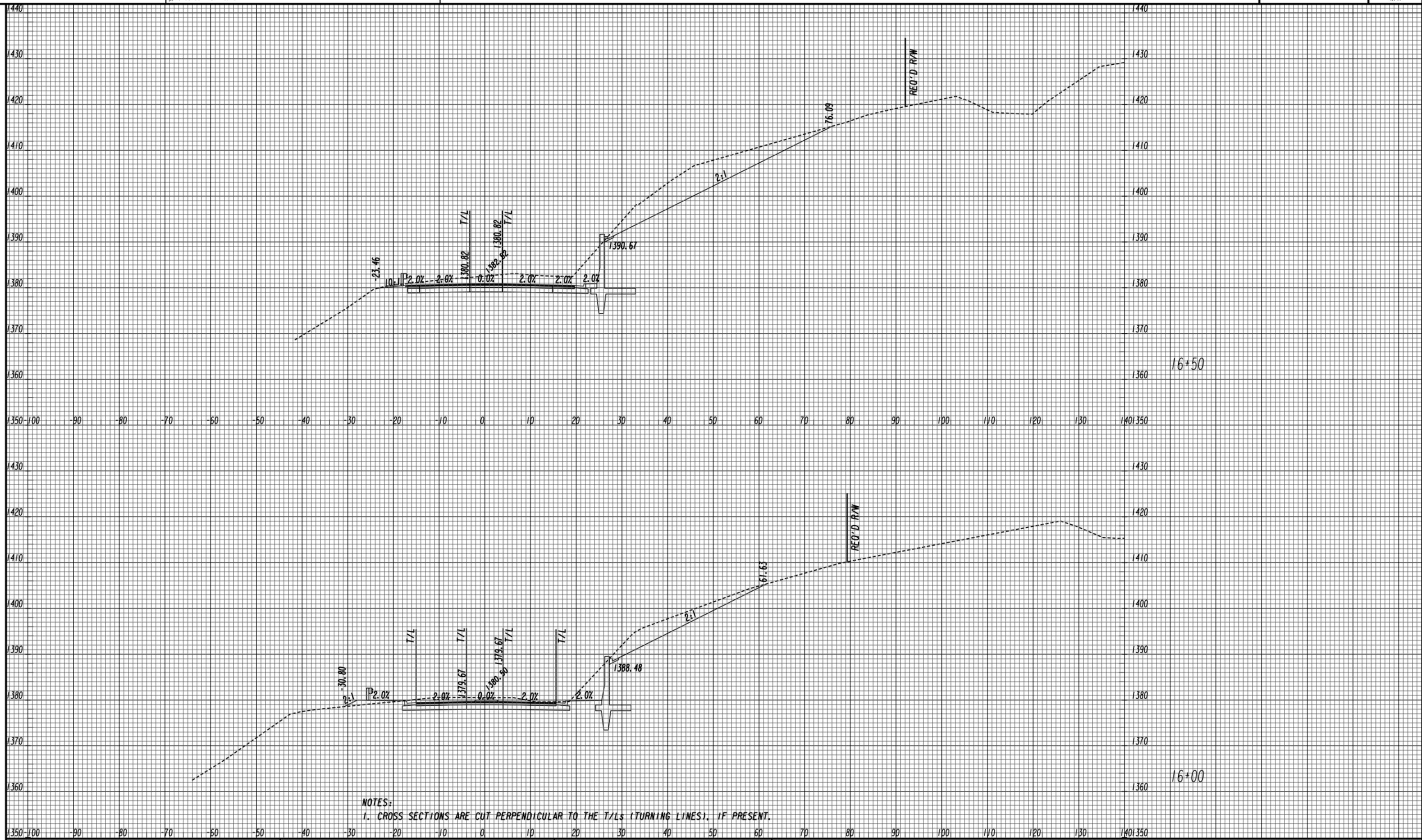


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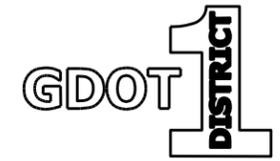
DRAINAGE PROFILES

US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

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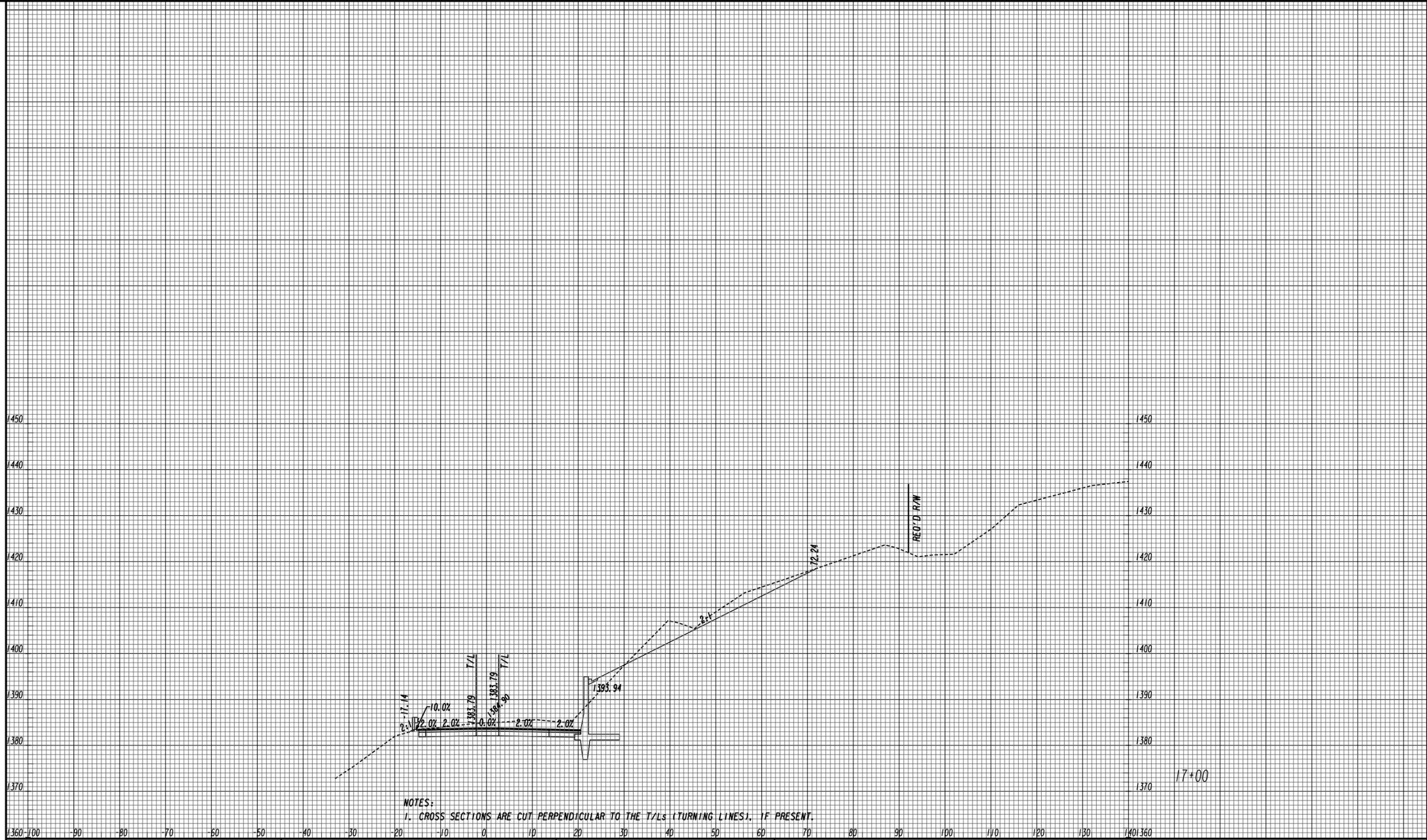


NOTES:
1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE T/Ls (TURNING LINES), IF PRESENT.



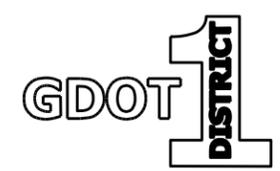
SOUTH LEG
US 19 BUS/SR 60 BUS
SOUTH

REVISION DATES		CROSS SECTIONS	
		US 19 BUS/SR 60 BUS @ OAK GROVE RD LUMPKIN COUNTY	
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BACKCHECKED:		DATE:	23-0001
CORRECTED:		DATE:	
VERIFIED:		DATE:	



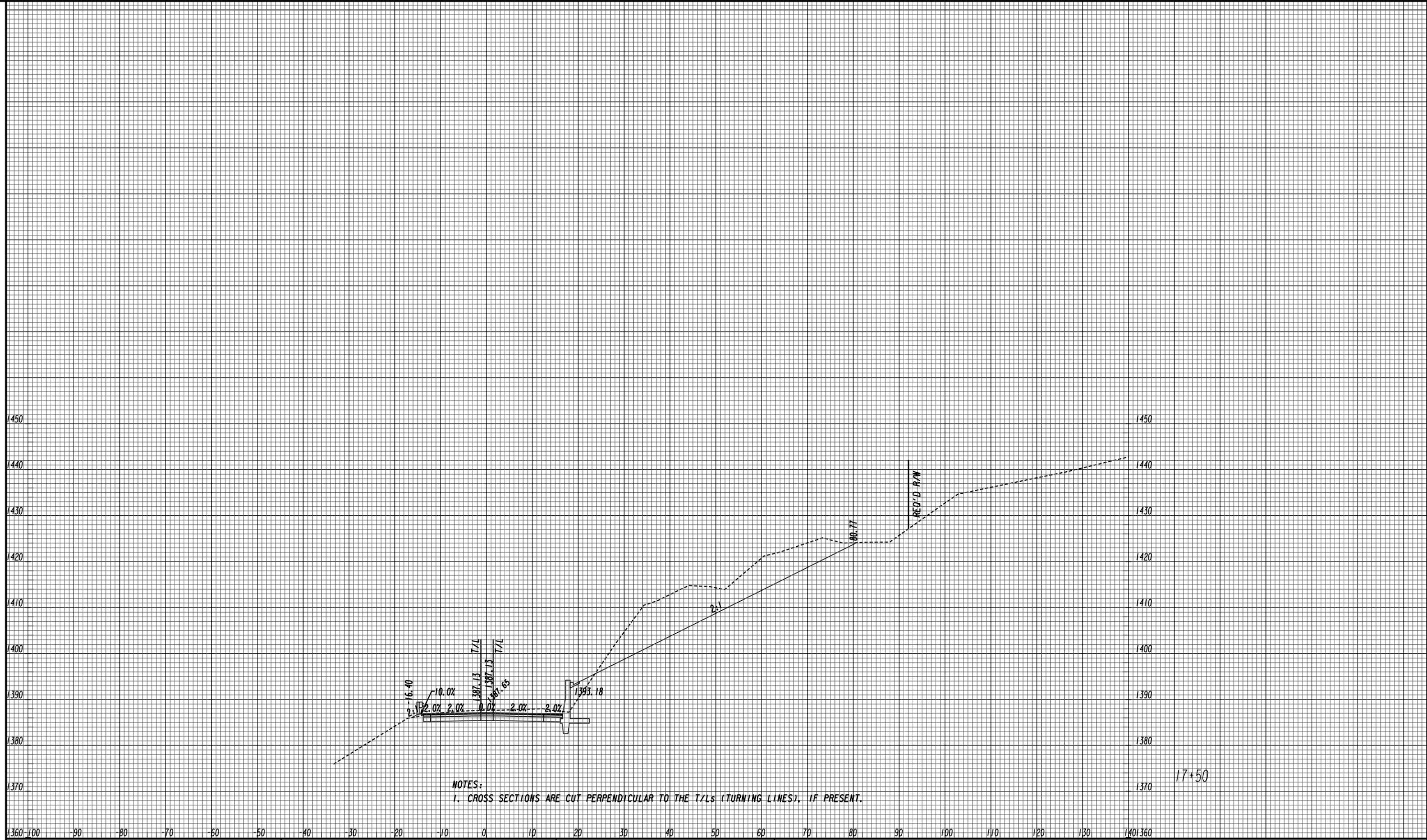
NOTES:
 1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE T/Ls (TURNING LINES), IF PRESENT.

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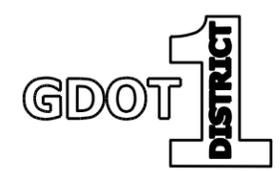


SOUTH LEG
 US 19 BUS/SR 60 BUS
 SOUTH

REVISION DATES		CROSS SECTIONS	
		US 19 BUS/SR 60 BUS @ OAK GROVE RD LUMPKIN COUNTY	
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VERIFIED:		DATE:	
DRAWING No.			23-0002

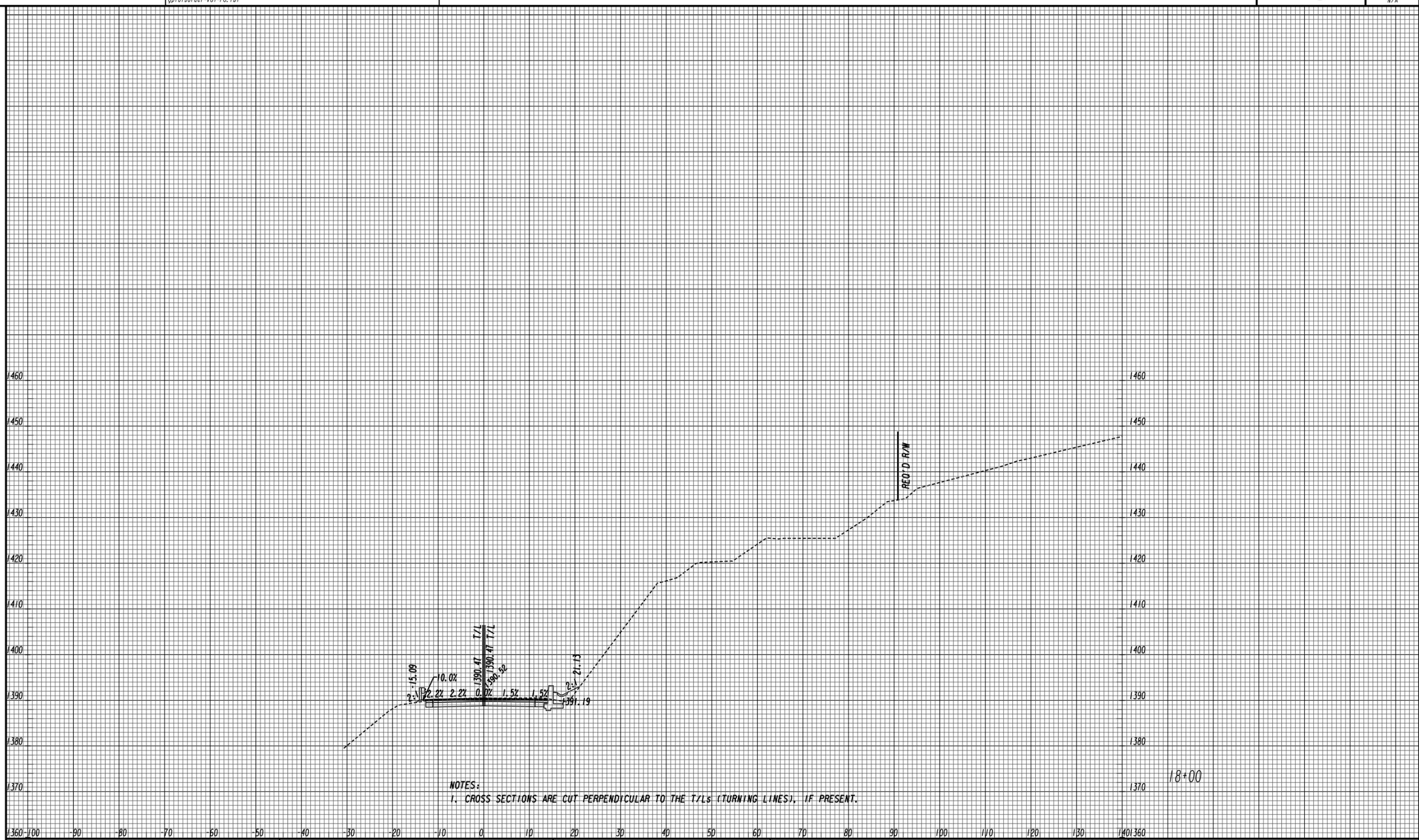


NOTES:
 1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE T/Ls (TURNING LINES), IF PRESENT.



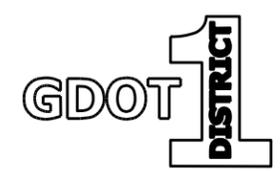
SOUTH LEG
 US 19 BUS/SR 60 BUS
 SOUTH

REVISION DATES		CROSS SECTIONS	
		US 19 BUS/SR 60 BUS @ OAK GROVE RD LUMPKIN COUNTY	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	23-0003	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



NOTES:
 1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE T/Ls (TURNING LINES), IF PRESENT.

1360 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 1360



SOUTH LEG
 US 19 BUS/SR 60 BUS
 SOUTH

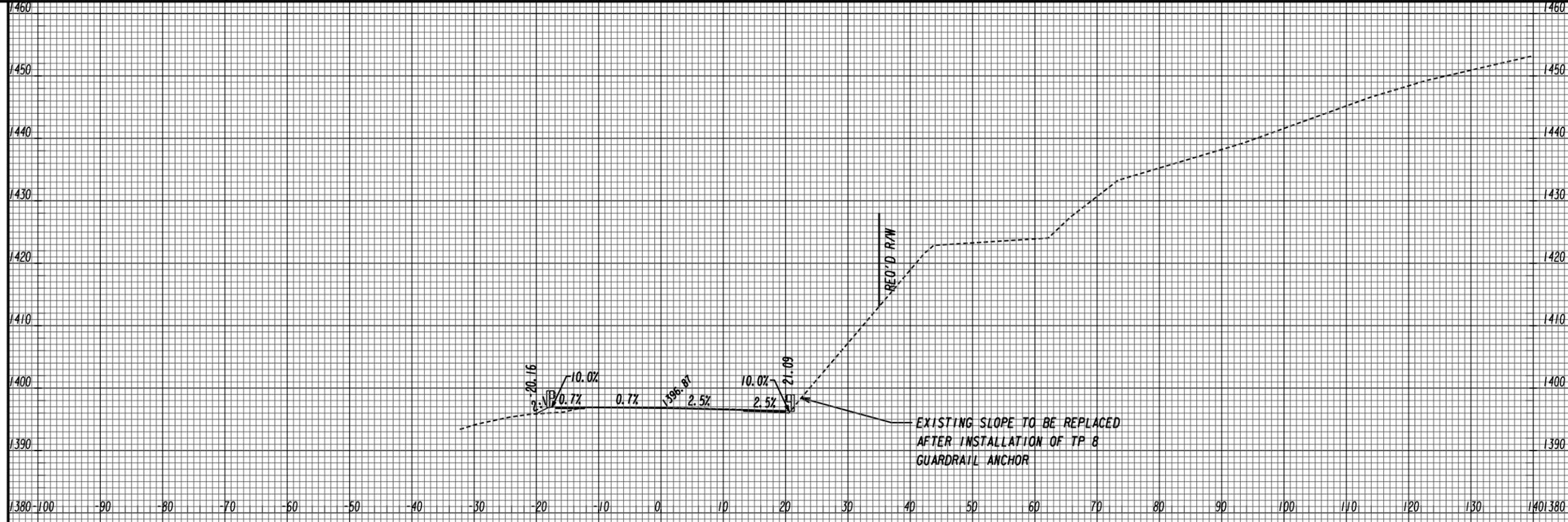
REVISION DATES

NO.	DATE	DESCRIPTION

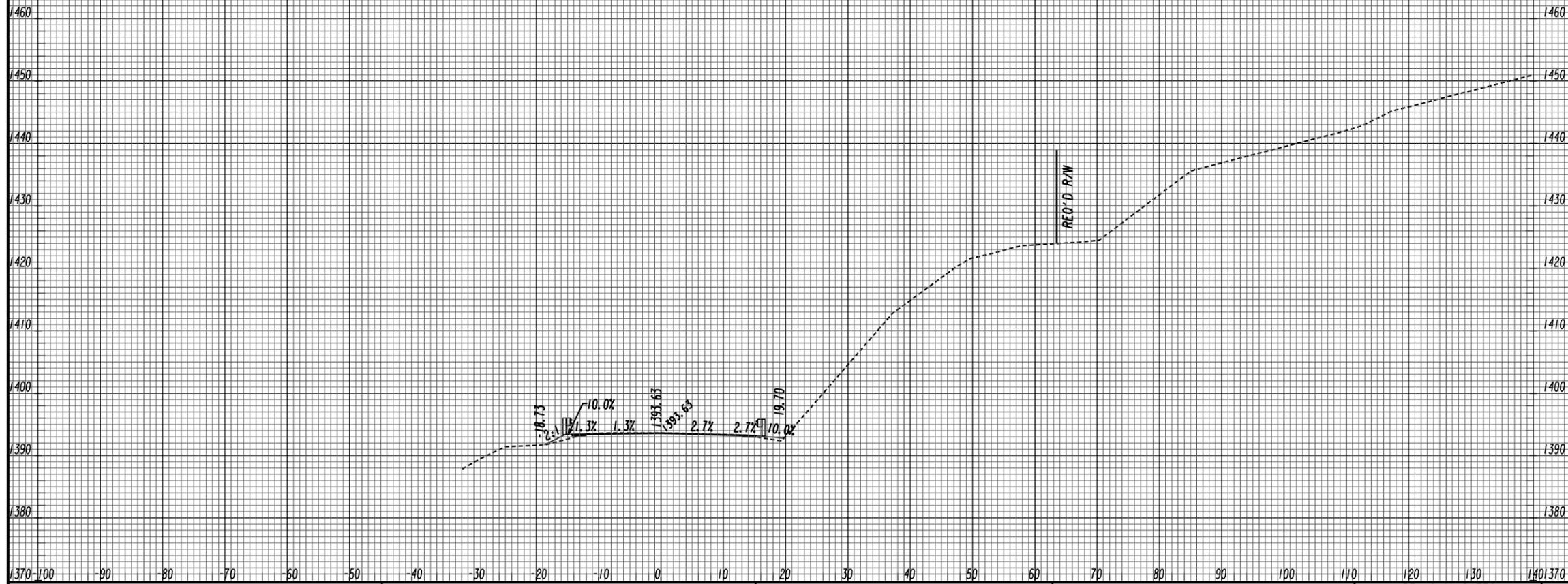
CROSS SECTIONS

US 19 BUS/SR 60 BUS @ OAK GROVE RD
 LUMPKIN COUNTY

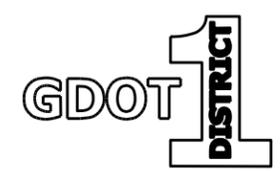
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	



19+00



18+50



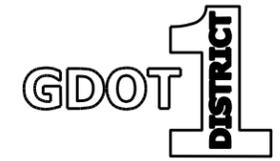
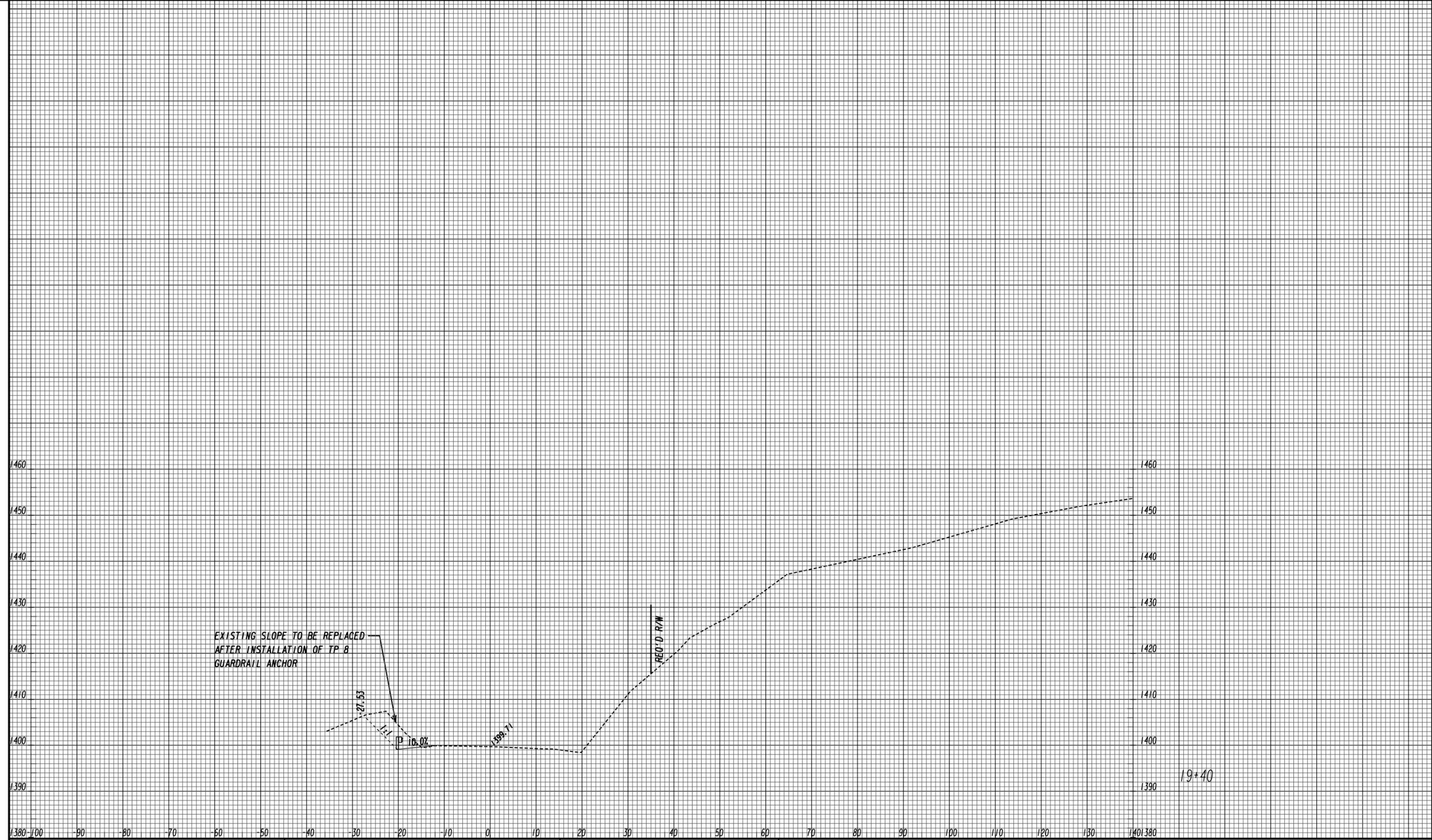
SOUTH LEG
US 19 BUS/SR 60 BUS
SOUTH

REVISION DATES

CROSS SECTIONS

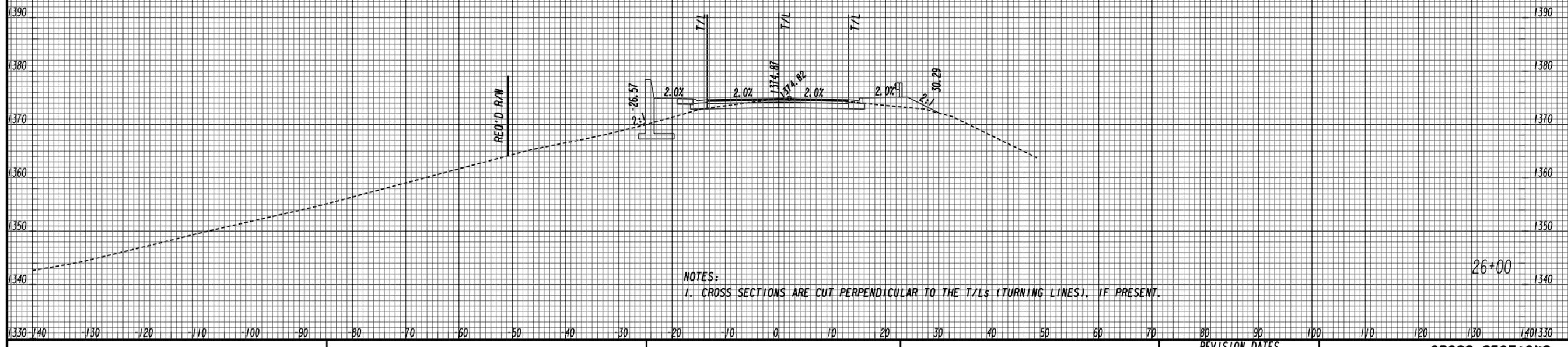
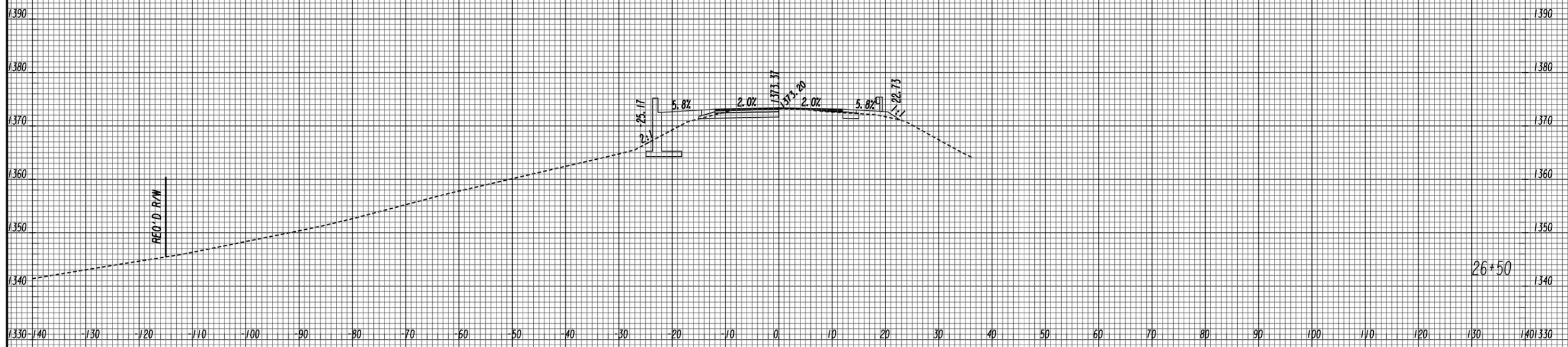
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	

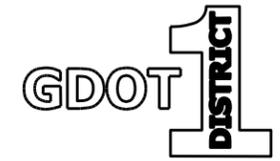


SOUTH LEG
US 19 BUS/SR 60 BUS
SOUTH

REVISION DATES		CROSS SECTIONS	
		US 19 BUS/SR 60 BUS @ OAK GROVE RD LUMPKIN COUNTY	
CHECKED:		DATE:	DRAWING No.
BACKCHECKED:		DATE:	23-0006
CORRECTED:		DATE:	
VERIFIED:		DATE:	



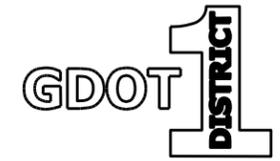
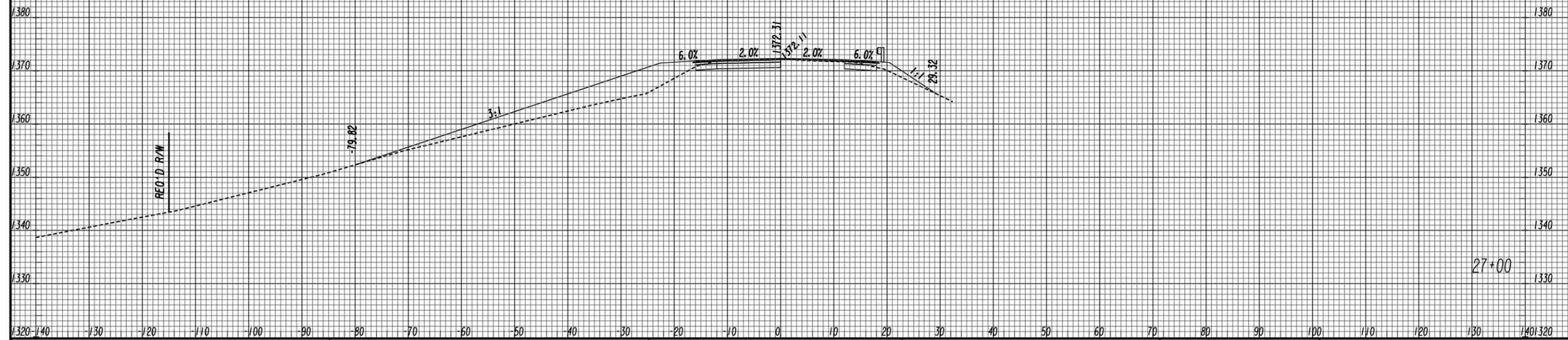
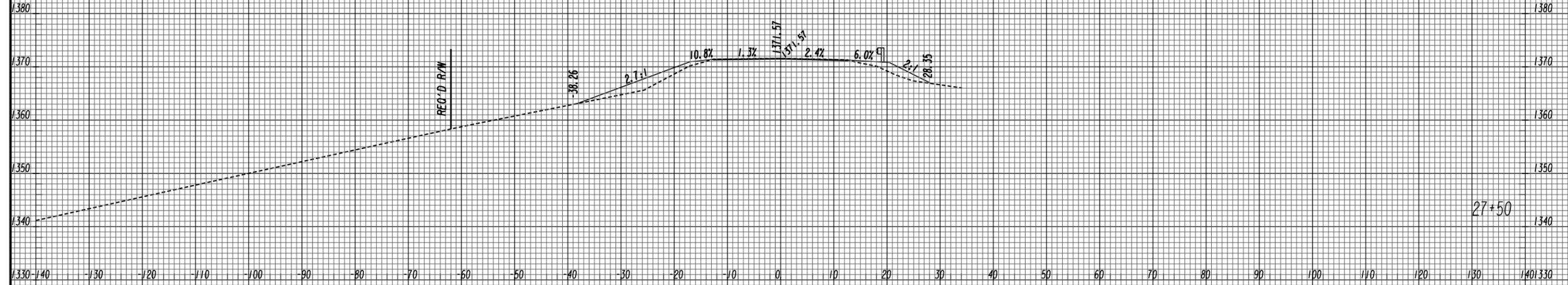
NOTES:
1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE T/Ls (TURNING LINES), IF PRESENT.



NORTH LEG
US 19 BUS/SR 60 BUS
NORTH

REVISION DATES

REVISION DATES		CROSS SECTIONS		DRAWING No.
		US 19 BUS/SR 60 BUS @ OAK GROVE RD		
		LUMPKIN COUNTY		
CHECKED:		DATE:		
BACKCHECKED:		DATE:		
CORRECTED:		DATE:		
VERIFIED:		DATE:		



NORTH LEG
US 19 BUS/SR 60 BUS
NORTH

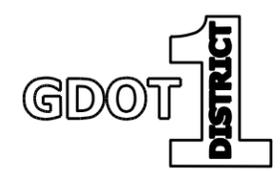
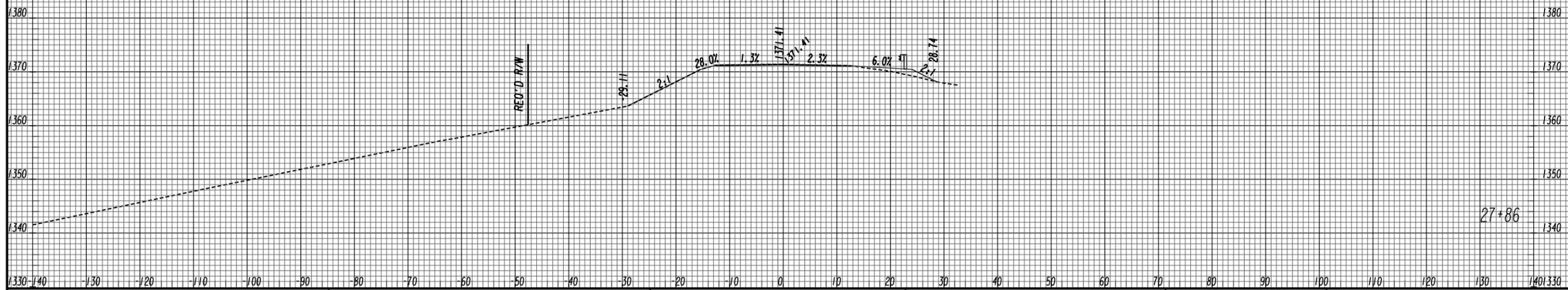
REVISION DATES

NO.	DATE	DESCRIPTION

CROSS SECTIONS

US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0008
CORRECTED:	DATE:	
VERIFIED:	DATE:	



NORTH LEG
US 19 BUS/SR 60 BUS
NORTH

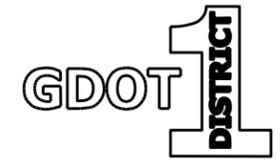
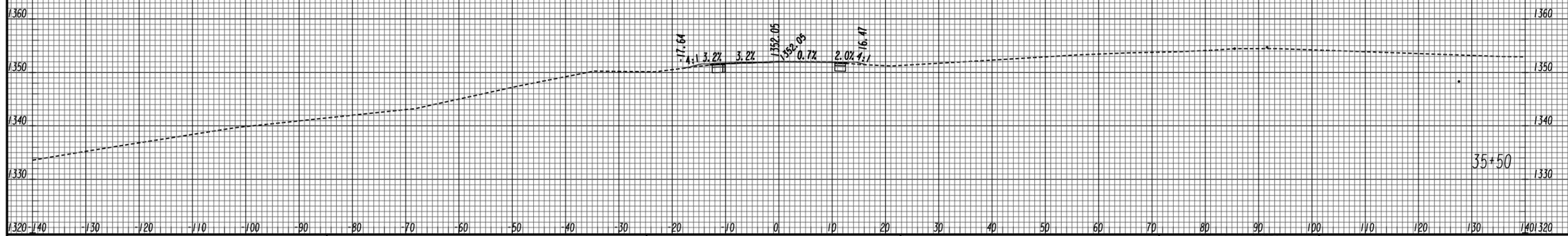
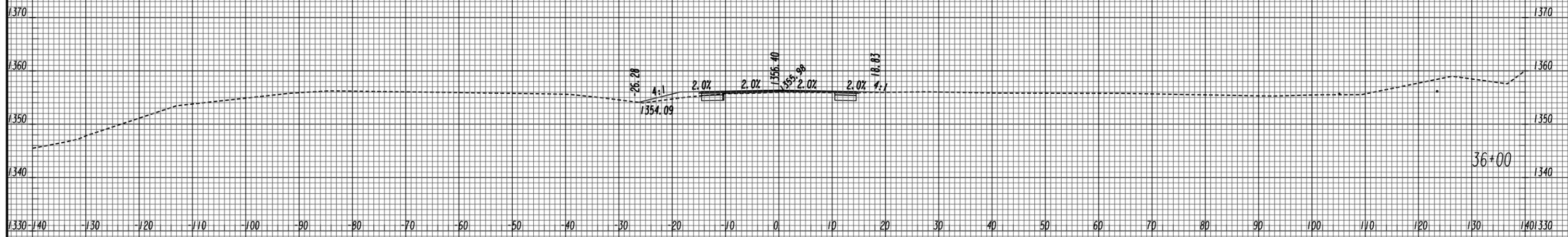
REVISION DATES

NO.	DATE	DESCRIPTION

CROSS SECTIONS

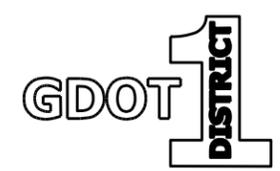
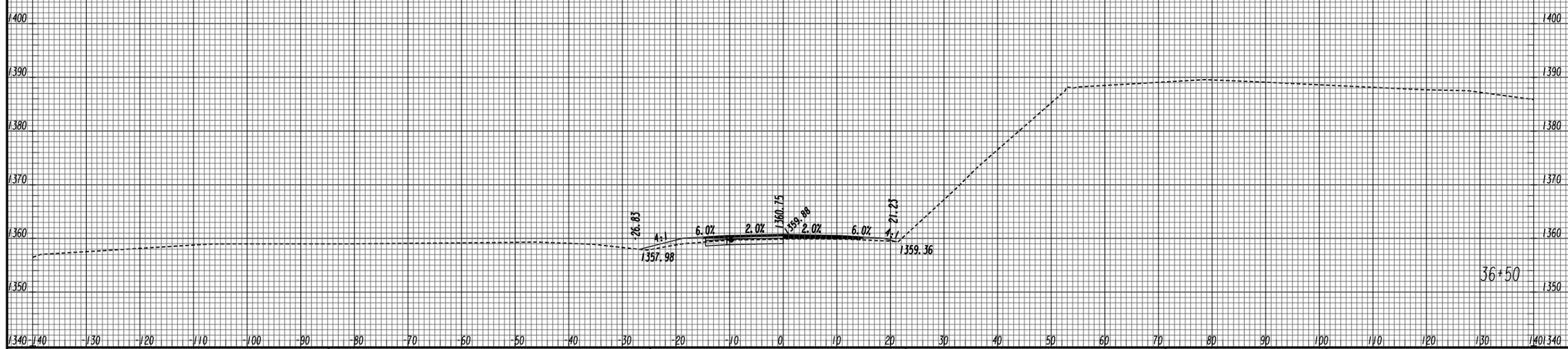
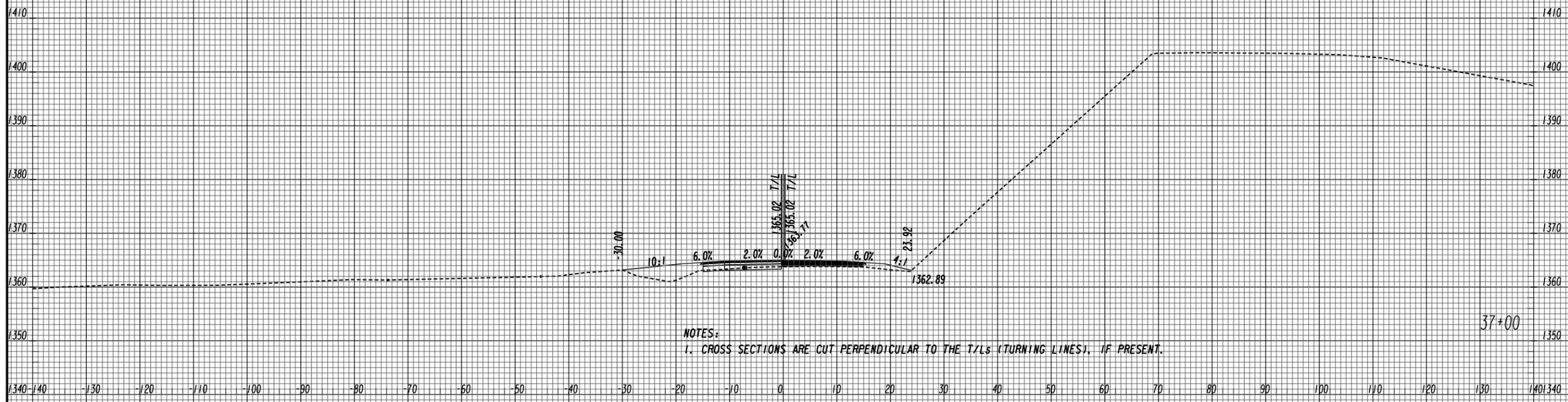
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0009
CORRECTED:	DATE:	
VERIFIED:	DATE:	



WEST LEG
OAK GROVE RD

REVISION DATES		CROSS SECTIONS	
		US 19 BUS/SR 60 BUS @ OAK GROVE RD	
		LUMPKIN COUNTY	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	23-0010	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

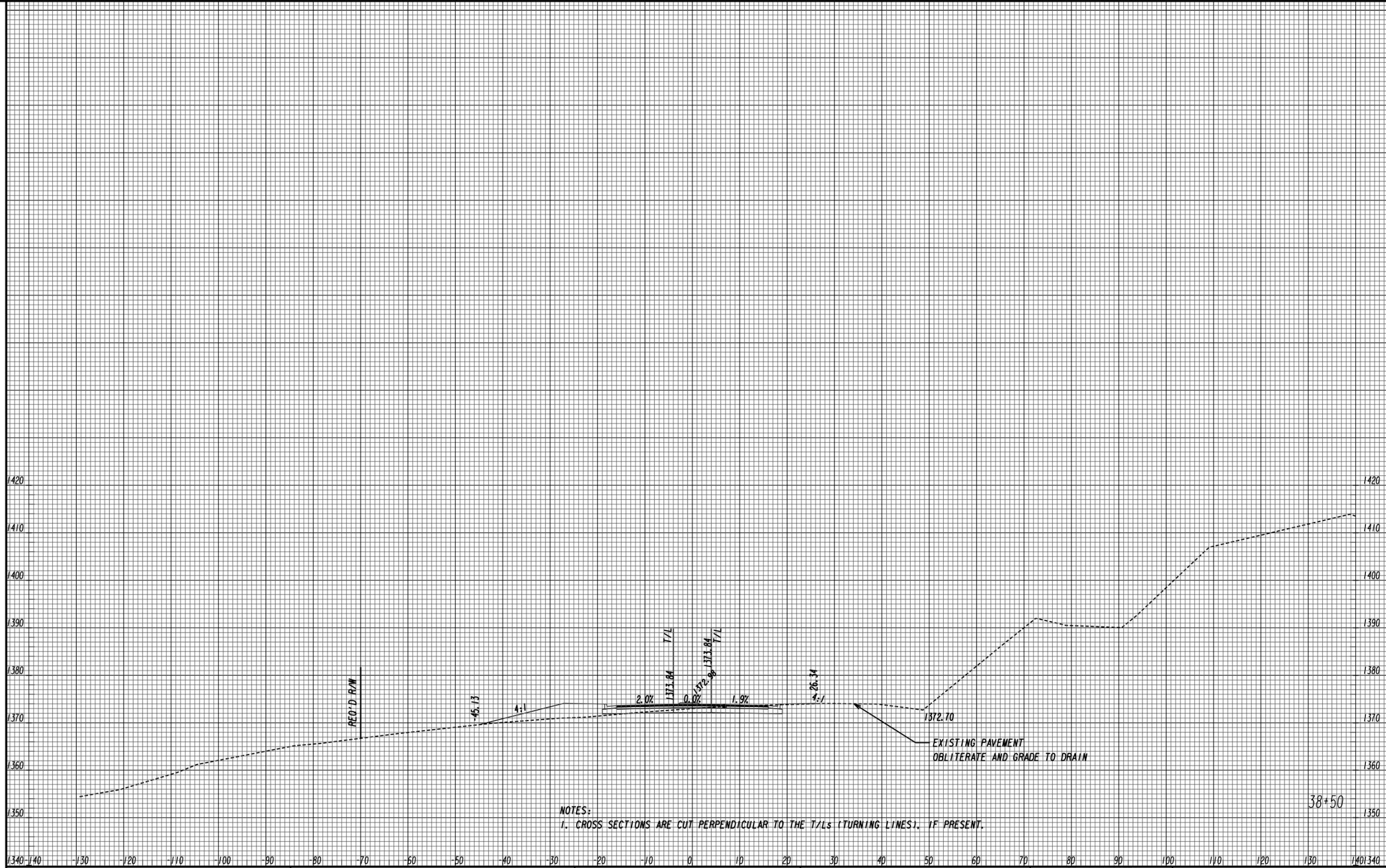


WEST LEG
OAK GROVE RD

REVISION DATES

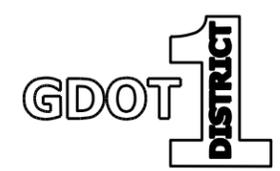
CROSS SECTIONS
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0011
CORRECTED:	DATE:	
VERIFIED:	DATE:	



NOTES:
1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE T/Ls (TURNING LINES), IF PRESENT.

38+50

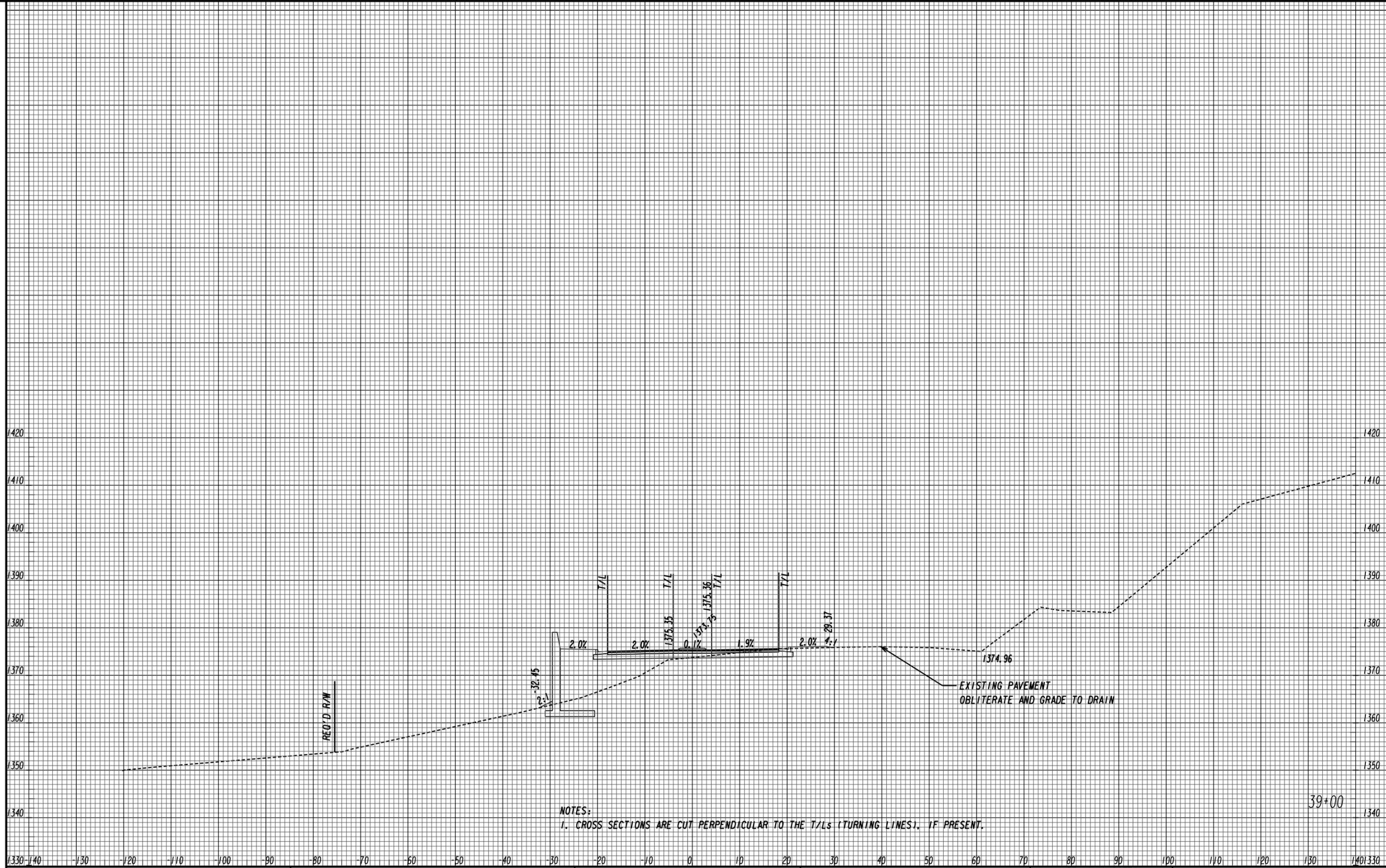


WEST LEG
OAK GROVE RD

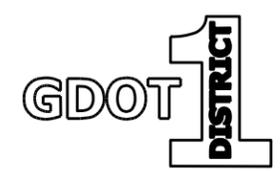
REVISION DATES

CROSS SECTIONS
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	23-0013
CORRECTED:	DATE:	
VERIFIED:	DATE:	



NOTES:
 1. CROSS SECTIONS ARE CUT PERPENDICULAR TO THE T/Ls (TURNING LINES), IF PRESENT.



WEST LEG
OAK GROVE RD

REVISION DATES		CROSS SECTIONS	
		US 19 BUS/SR 60 BUS @ OAK GROVE RD	
		LUMPKIN COUNTY	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	23-0014	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

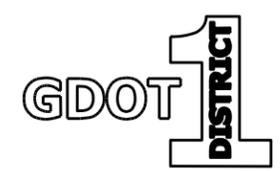
UTILITY LINECODES

UTILITY SYMBOLS

	EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
OVERHEAD				ELECTRIC
				ELECTRIC/TELECOMMUNICATIONS
				ELECTRIC/CABLE TV
				ELECTRIC/TELECOMMUNICATIONS/CABLE TV
				GUY WIRE
				TELECOMMUNICATIONS
UNDERGROUND				TELECOMMUNICATIONS/CABLE TV
				CABLE TV

	EXISTING	TO BE REMOVED	PROPOSED	TYPE OF UTILITY
UNDERGROUND				ELECTRIC
				TELECOMMUNICATIONS
				CABLE TV
				WATER
				WATER FOR LABELED PIPE SIZES
				NON-POTABLE WATER
				NON-POTABLE WATER FOR LABELED PIPE SIZES
				STEAM
				STEAM FOR LABELED PIPE SIZES
				SANITARY SEWER WITH FLOW DIRECTION
				SANITARY SEWER WITH FLOW DIRECTION FOR LABELED PIPE SIZES
				SANITARY SEWER FORCE MAIN WITH FLOW DIRECTION
				GAS
				GAS FOR LABELED PIPE SIZES
			PETROLEUM	
			PETROLEUM FOR LABELED PIPE SIZES	

EXISTING	PROPOSED	TEMPORARY		EXISTING	PROPOSED	TEMPORARY	
			UTILITY POLE/GUY POLE				WATER VALVE
			VENT				WATER VALVE MARKER
			GUY ANCHOR				WATER METER
			LIGHT POLE				WATER MANHOLE
			ELECTRIC MANHOLE				FIRE HYDRANT ASSEMBLY (INCLUDES ASSOCIATED VALVE)
			ELECTRIC HAND HOLE				BACKFLOW PREVENTER
			TRANSFORMER				PRESSURE INDICATOR VALVE
			ELECTRIC METER				AIR RELEASE VALVE
			ELECTRIC LINE MARKER U/G				WATER VAULT
			ELECTRIC BOX				STAND PIPE
			ELECTRIC YARD LIGHT POLE				WATER LINE MARKER U/G
			TRANSMISSION TOWER				CLEANOUT
			TELECOMMUNICATIONS MANHOLE				SANITARY SEWER MANHOLE
			TELECOMMUNICATIONS HANDHOLE				AIR RELEASE VALVE
			TELECOMMUNICATIONS PEDESTAL				GREASE TRAP
			TELECOMMUNICATIONS LINE MARKER U/G				SANITARY SEWER FORCE MAIN LINE MARKER U/G
			SPLICE BOX				SANITARY SEWER FORCE MAIN VALVE
			SUBSCRIBER LOOP CARRIER (aka "SLICK")				SANITARY SEWER FORCE MAIN VALVE MARKER
			PHONE BOOTH				GAS YARD LIGHT POLE
			TELECOMMUNICATIONS CABINET				GAS VALVE
			CABLE TV CABINET				GAS VALVE MARKER
			CABLE TV MANHOLE				GAS METER
			CABLE TV HANDHOLE				GAS MANHOLE
			CABLE TV PEDESTAL				GAS PRESSURE REGULATOR
			CABLE TV LINE MARKER U/G				GAS VAULT
			SATELLITE DISH				GAS TEST STATION
							GAS LINE MARKER U/G
							PETROLEUM LINE MARKER U/G
							PETROLEUM VALVE
							PETROLEUM VALVE MARKER



REVISION DATES

NO.	DATE	DESCRIPTION

UTILITY PLANS - LEGEND
US 19 BUS/SR 60 BUS
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0000
CORRECTED:	DATE:	
VERIFIED:	DATE:	

ANDERSON RALPH E & PATRICIA A CROW

NOTE:
4" MIN. HORIZONTAL SEPARATION
BETWEEN GAS/SEWER FM (CL/CL)

10' MIN. HORIZONTAL SEPARATION
BETWEEN WATER AND SEWER FM
CL/CL) OR ENCASE SEWER WITH
8" IN CONCRETE.

PROPOSED:
630' X 4" STEEL GAS MAIN
WT:0.156/GRADE:X52
NOP: 60 PSIG
CP: RECTIFIER
DAHLONEGA RECTIFIER

MAINTAIN 2" VERTICAL SEPARATION
AT GAS CROSSING OR ENCASE SEWER
FORCE MAIN IN CONCRETE FOR 10'
EITHER SIDE OF CROSSING

6X10" REDUCTION

LIMIT OF CONSTRUCTION
OAK GROVE RD
STA 35+50.00

TIE TO EXISTING
FORCE MAIN
EXISTING 6" DIP
WATER LINE

EXISTING:
2" STEEL GAS MAIN
WT:UNK./GRADE:UNK.
NOP: 60 PSIG
CP: RECTIFIER
DAHLONEGA RECTIFIER

CUT & CAP
TIE INTO 2" STEEL GAS MAIN
WT:UNK./GRADE:UNK.
NOP: 60 PSIG
INSTALL TEST STATION

PROPOSED:
10' X 4" STEEL GAS MAIN
WT:0.156/GRADE:X52
NOP: 60 PSIG
CP: RECTIFIER
DAHLONEGA RECTIFIER

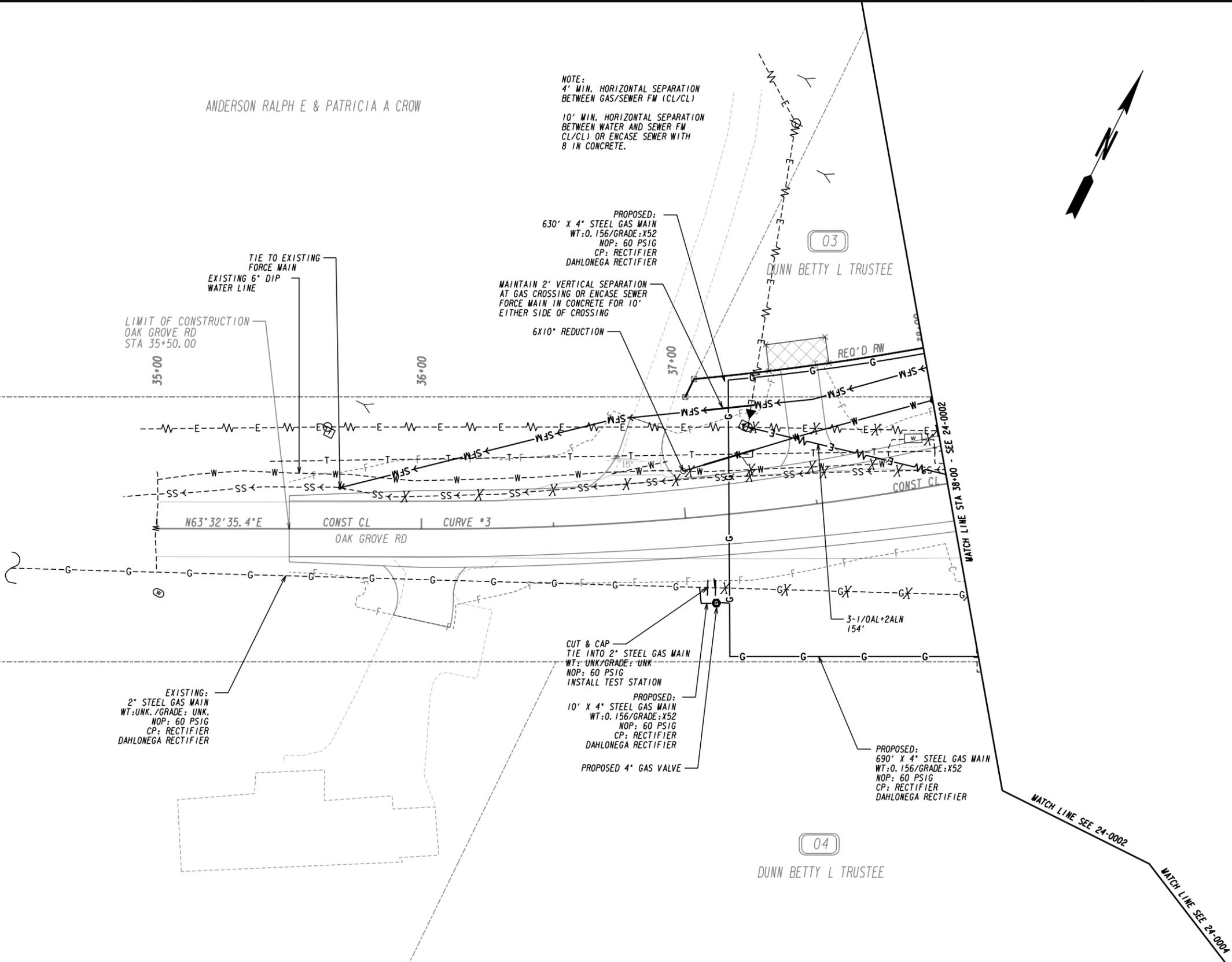
PROPOSED 4" GAS VALVE

PROPOSED:
690' X 4" STEEL GAS MAIN
WT:0.156/GRADE:X52
NOP: 60 PSIG
CP: RECTIFIER
DAHLONEGA RECTIFIER

DUNN BETTY L TRUSTEE

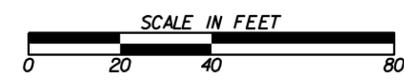
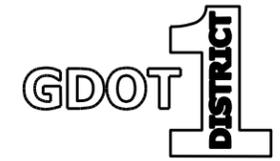
DUNN BETTY L TRUSTEE

HOOVER DENNIS



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

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



REVISION DATES	
04/20/2021	

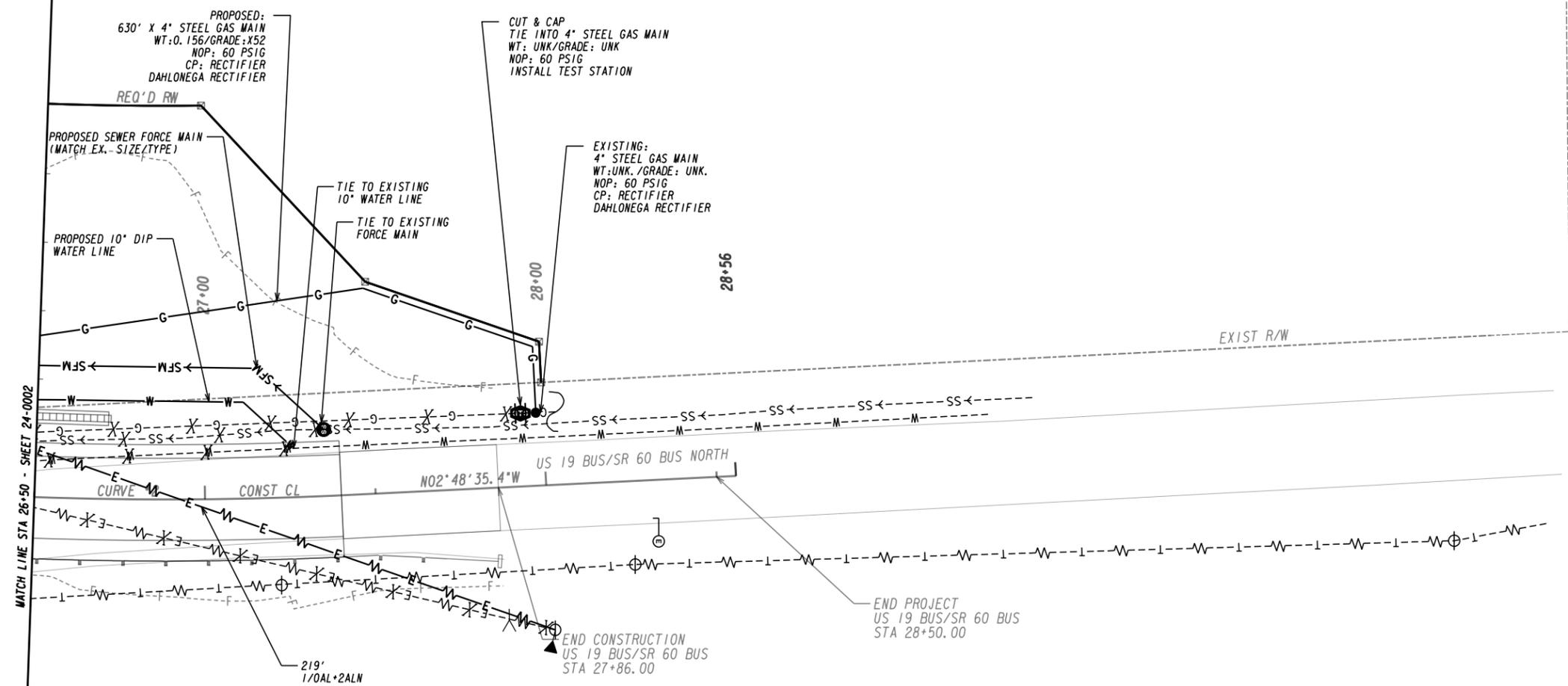
UTILITY PLANS			
US 19 BUS/SR 60 BUS @ OAK GROVE RD LUMPKIN COUNTY			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	24-0001	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

NOTE:
4' MIN. HORIZONTAL SEPARATION
BETWEEN GAS/SEWER FM (CL/CL)

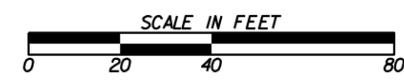
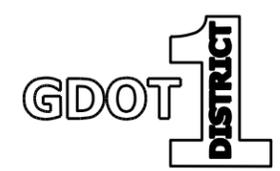
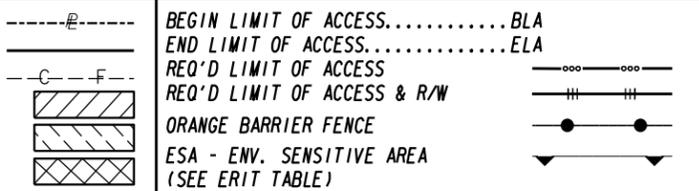
10' MIN. HORIZONTAL SEPARATION
BETWEEN WATER AND SEWER FM
CL/CL) OR ENCASE SEWER WITH
8 IN CONCRETE.

03

DUNN BETTY L TRUSTEE

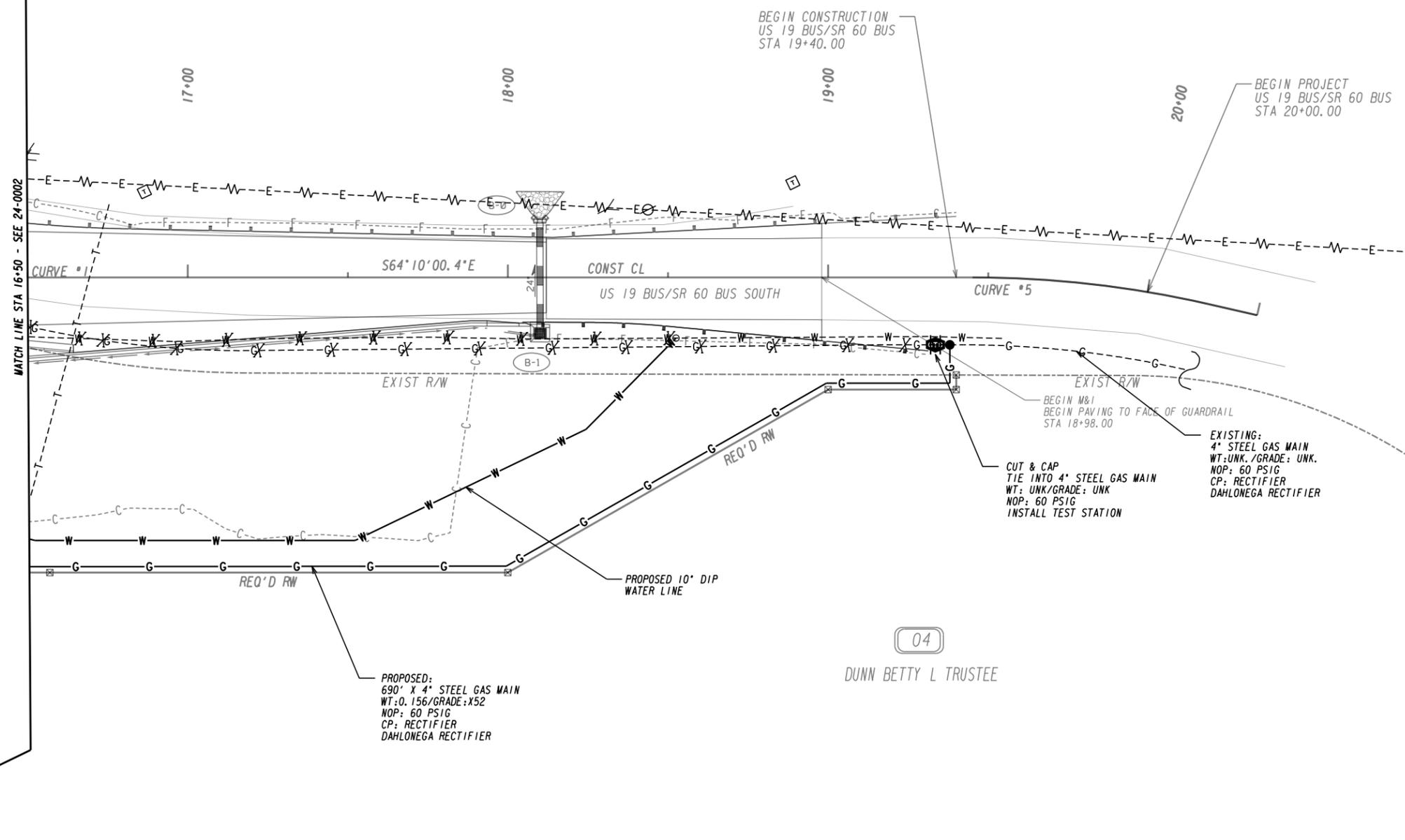


PROPERTY AND EXISTING R/W LINE
REQUIRED R/W LINE
CONSTRUCTION LIMITS
EASEMENT FOR CONSTR
& MAINTENANCE OF SLOPES
EASEMENT FOR CONSTR OF SLOPES
EASEMENT FOR CONSTR OF DRIVES



REVISION DATES	
04/20/2021	

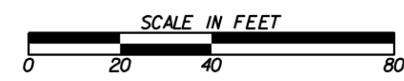
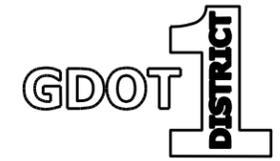
UTILITY PLANS		
US 19 BUS/SR 60 BUS @ OAK GROVE RD LUMPKIN COUNTY		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE SEE 24-0002

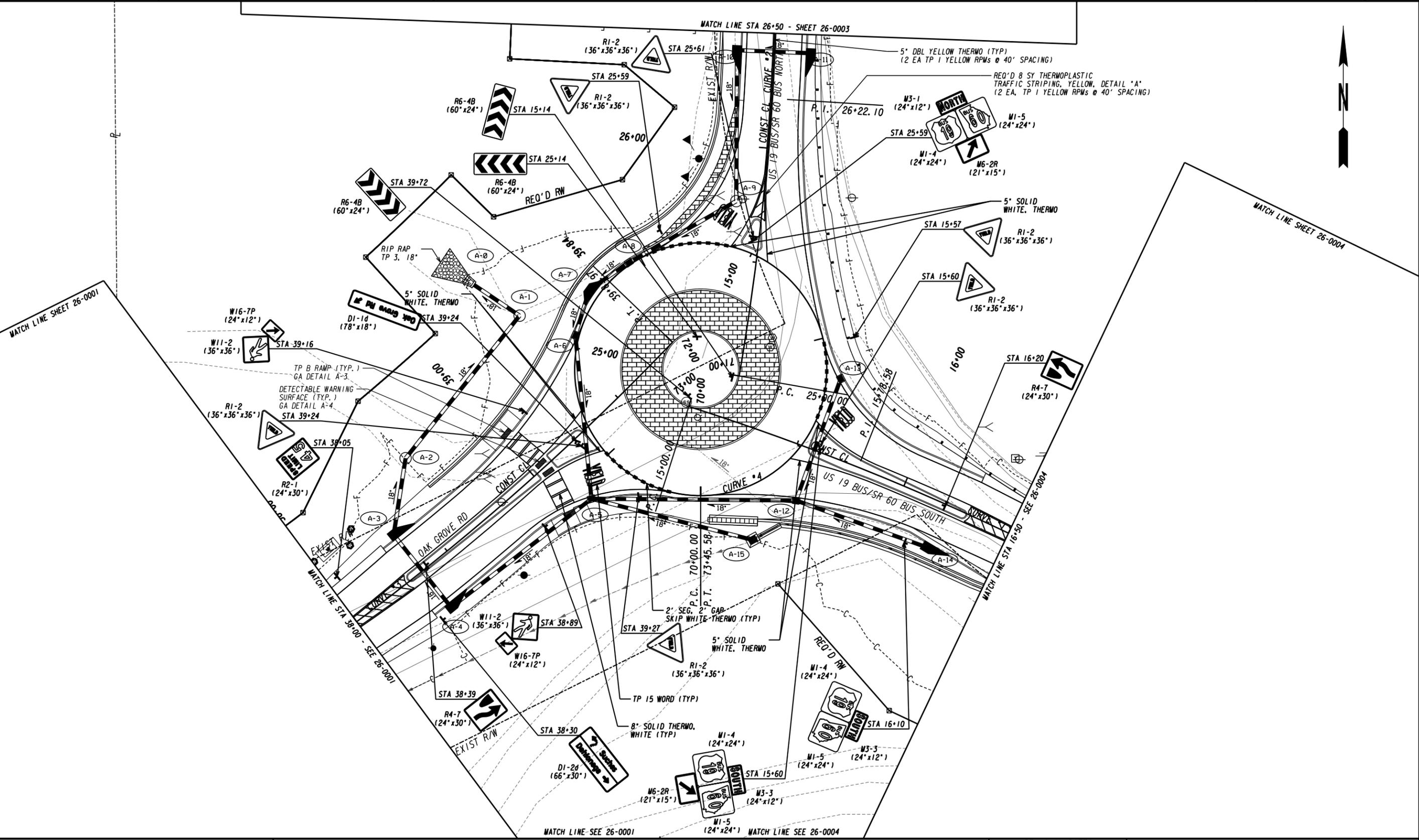
PROPERTY AND EXISTING R/W LINE	-----E-----
REQUIRED R/W LINE	-----F-----
CONSTRUCTION LIMITS	-----G-----
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	-----H-----
EASEMENT FOR CONSTR OF SLOPES	-----I-----
EASEMENT FOR CONSTR OF DRIVES	-----J-----

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



REVISION DATES	
04/20/2021	

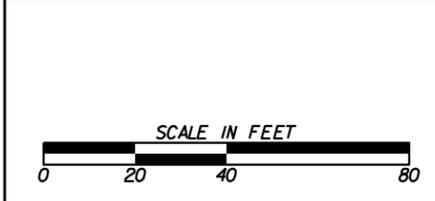
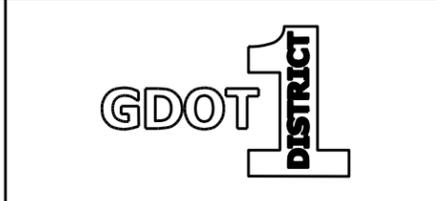
UTILITY PLANS		
US 19 BUS/SR 60 BUS @ OAK GROVE RD		
LUMPKIN COUNTY		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	24-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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

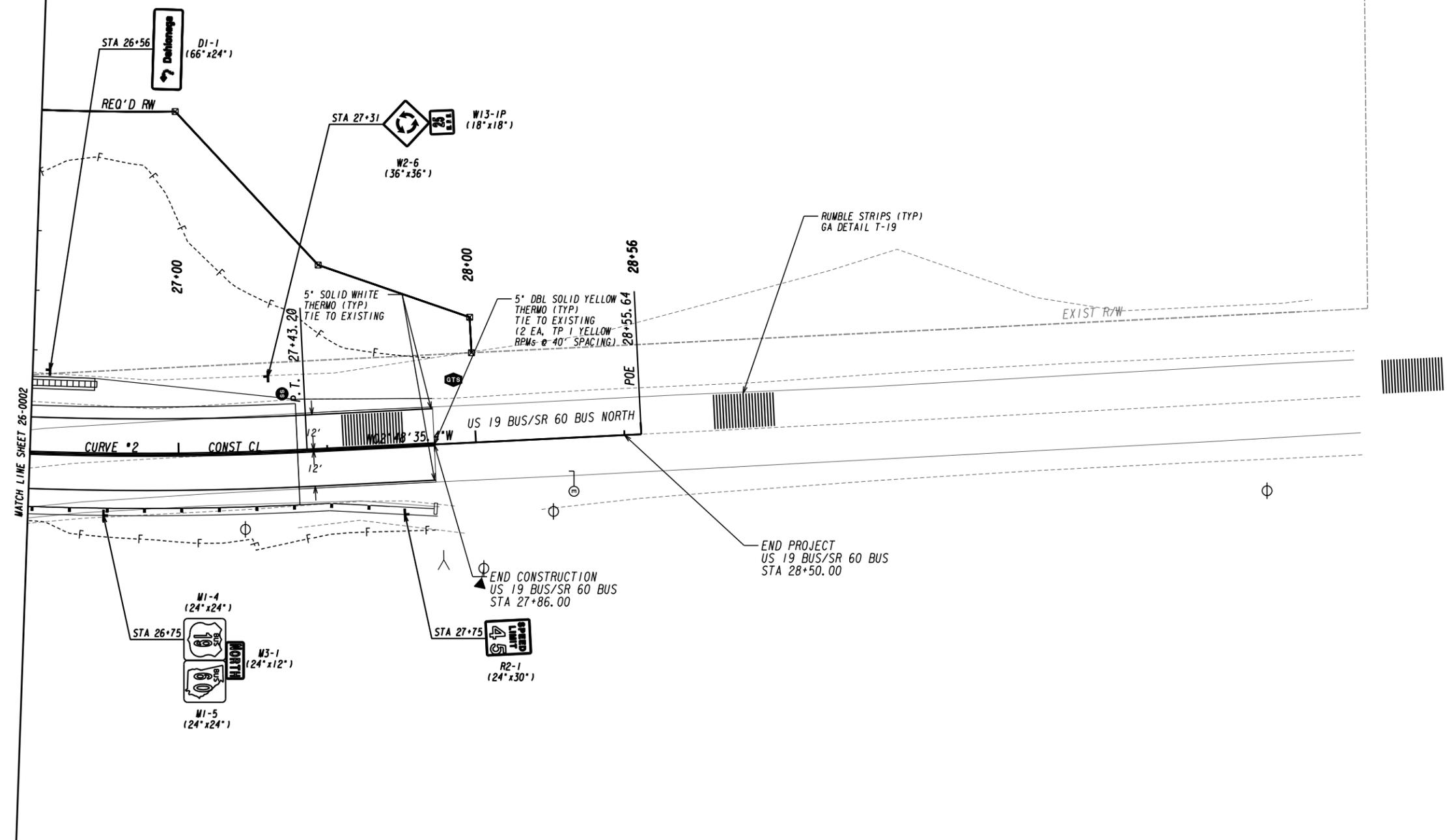
-----e-----
 ---C---F---
 [Hatched Box]
 [Hatched Box]
 [Hatched Box]

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



REVISION DATES	

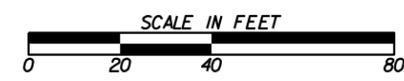
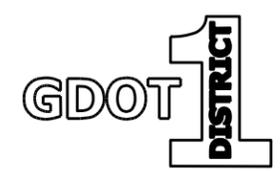
SIGNING AND MARKING PLANS			
US 19 BUS/SR 60 BUS @ OAK GROVE RD			
LUMPKIN COUNTY			
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	26-0002	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



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

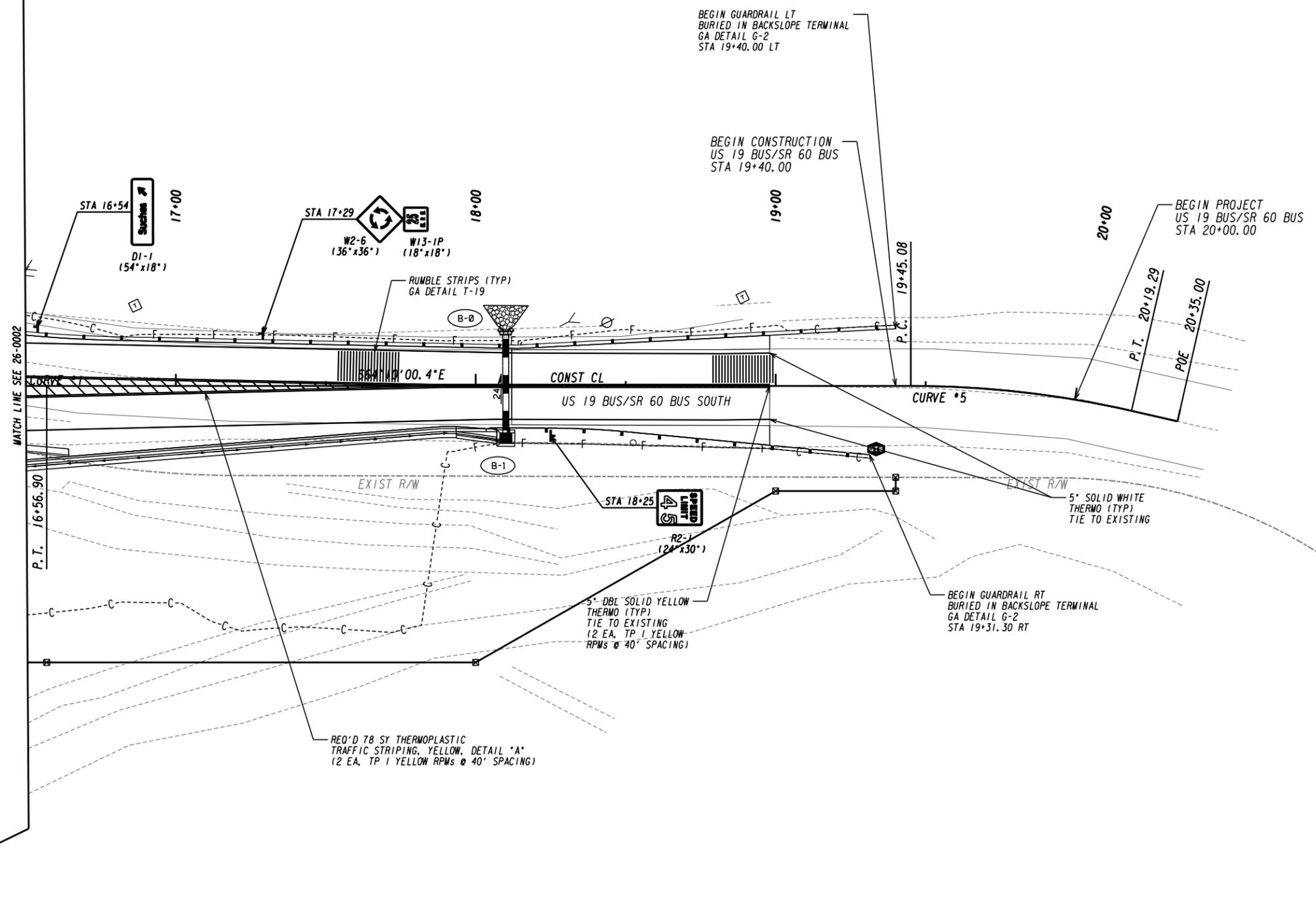
-----e-----
 ---C---F---
 [Hatched Box]
 [Hatched Box]
 [Hatched Box]

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



REVISION DATES	

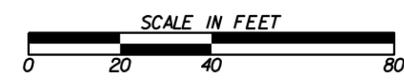
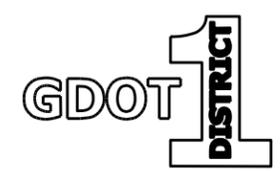
SIGNING AND MARKING PLANS		
US 19 BUS/SR 60 BUS @ OAK GROVE RD		
LUMPKIN COUNTY		
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-0003
CORRECTED:	DATE:	
VERIFIED:	DATE:	



MATCH LINE SEE 26-0002

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

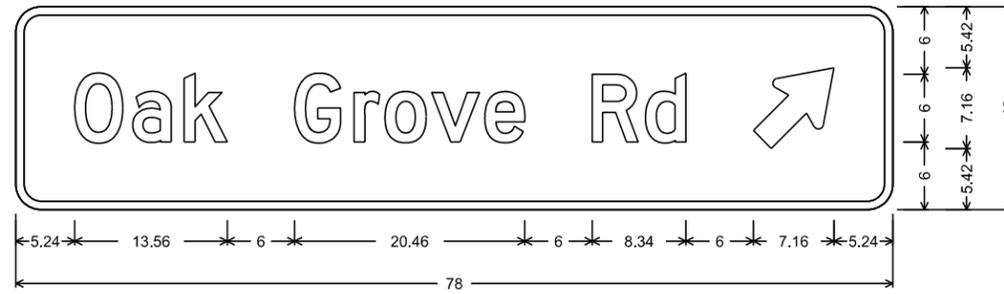
BEGIN LIMIT OF ACCESS.....BLA	---o---o---o---
END LIMIT OF ACCESS.....ELA	--- --- --- ---
REQ'D LIMIT OF ACCESS	---●---●---
REQ'D LIMIT OF ACCESS & R/W	---▲---▲---
ORANGE BARRIER FENCE	[Orange Line Symbol]
ESA - ENV. SENSITIVE AREA (SEE ERIT TABLE)	[ESA Symbol]



REVISION DATES	

SIGNING AND MARKING PLANS
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

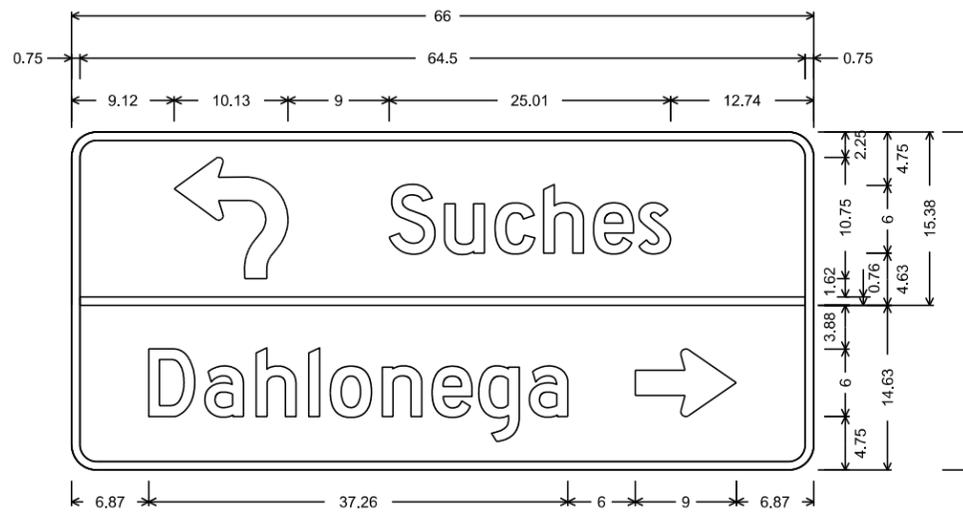
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BACKCHECKED:	DATE:	26-0004
CORRECTED:	DATE:	
VERIFIED:	DATE:	



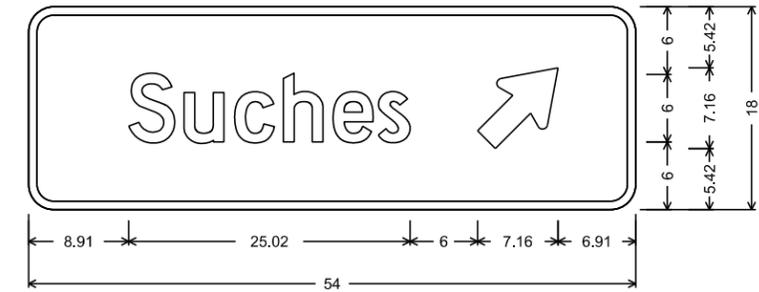
D1-1d: Oak Grove Rd;
2.25" Radius, 0.75" Border, White on, Green;
"Oak Grove Rd", D 2K; Standard Arrow Custom 9.00" X 6.00" 45';



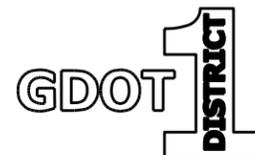
D1-1: Dahlongega LT;
2.25" Radius, 0.75" Border, White on, Green;
"Dahlongega", D 2K;



D1-2d: Suches LT, Dahlongega RT;
2.25" Radius, 0.75" Border, White on, Green;
"Suches", D 2K;
2.25" Radius, 0.75" Border, White on, Green;
"Dahlongega", D 2K; Standard Arrow Custom 9.00" X 6.00" 0';



D1-1: Suches RT;
2.25" Radius, 0.75" Border, White on, Green;
"Suches", D 2K;
Standard Arrow Custom 9.00" X 6.00" 45';



REVISION DATES

NO.	DATE	DESCRIPTION

SIGNING AND MARKING PLANS
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	26-0005
CORRECTED:	DATE:	
VERIFIED:	DATE:	

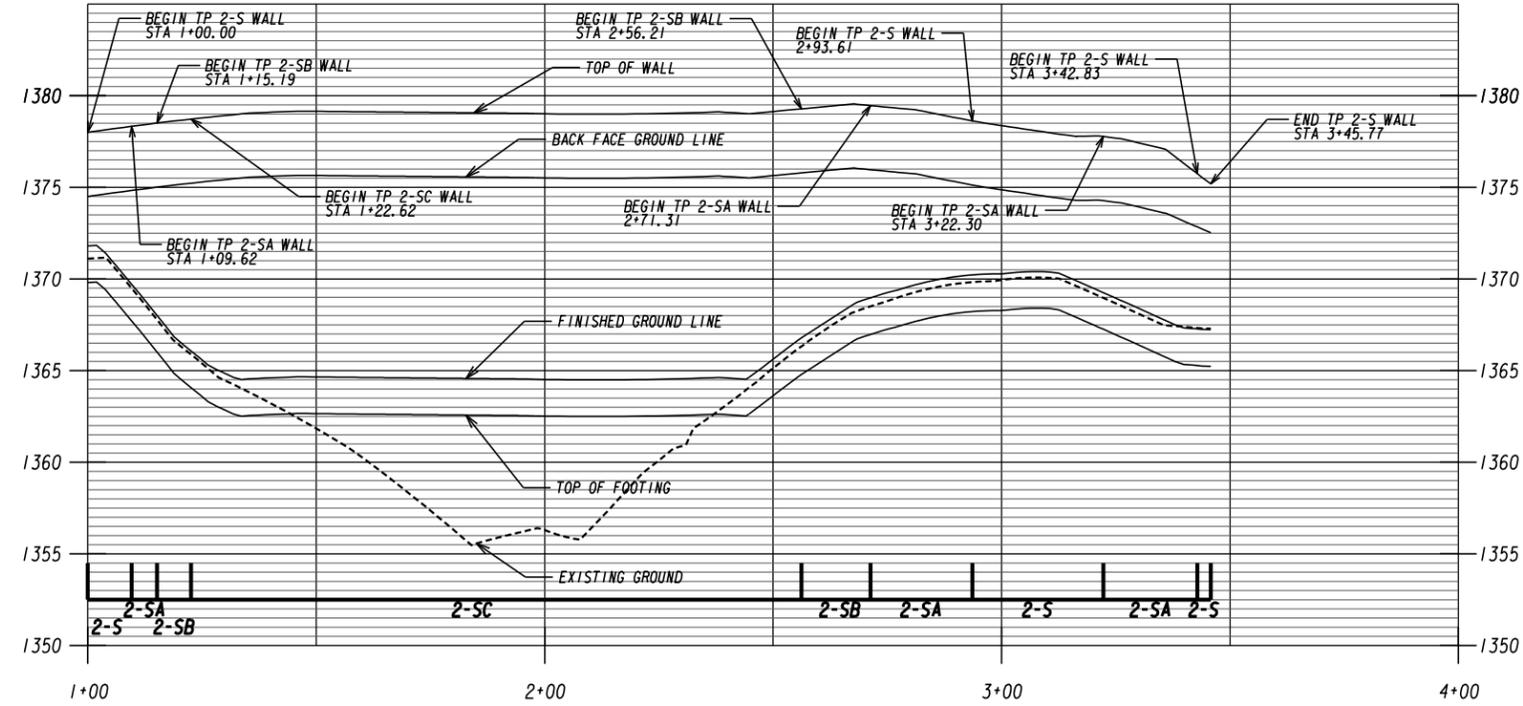
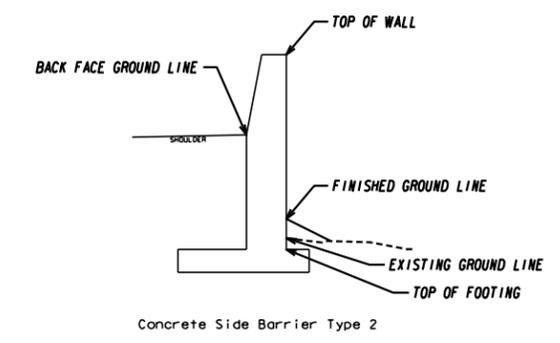
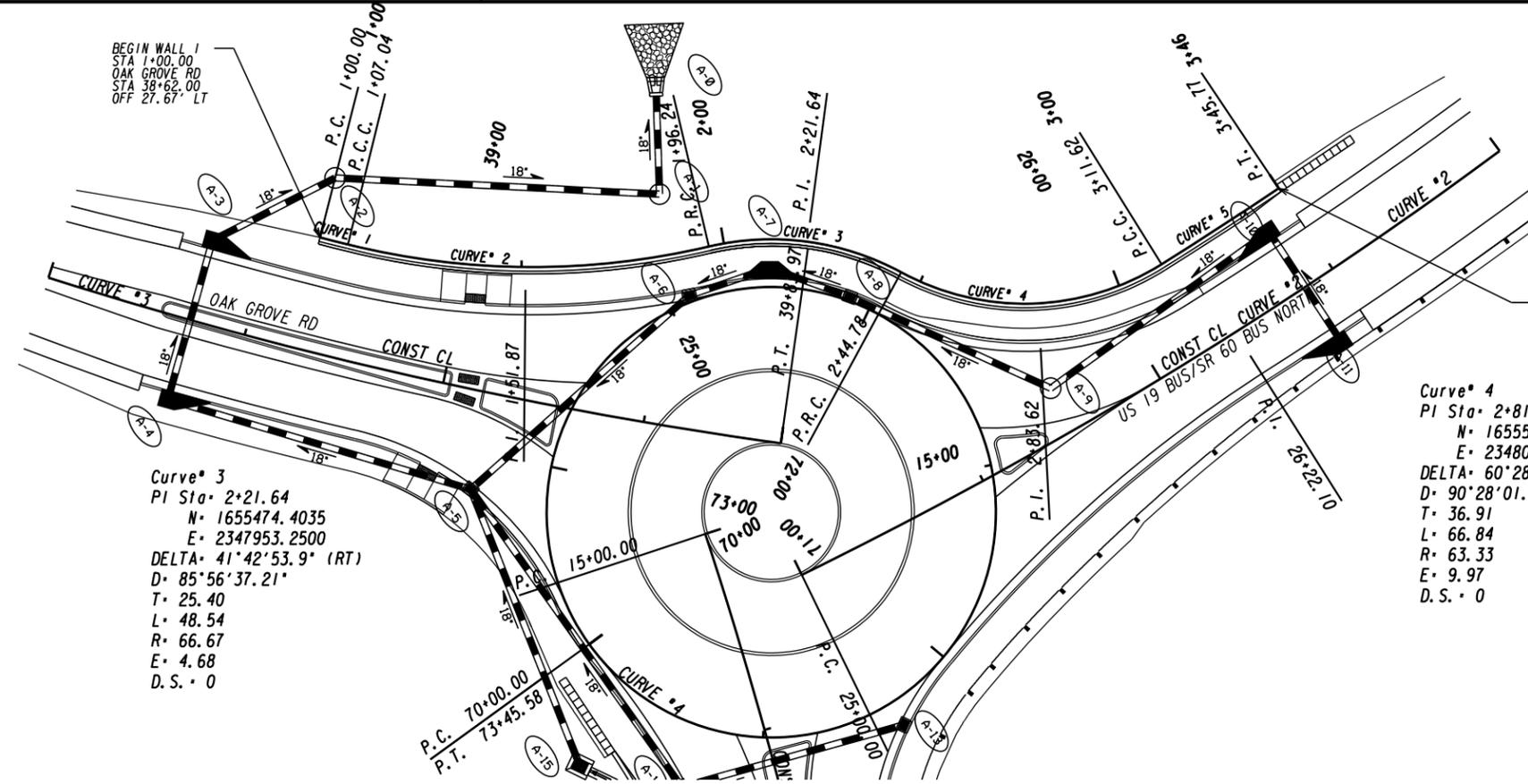
Curve* 1
 PI Sta= 1+03.52
 N= 1655377.3578
 E= 2347888.6224
 DELTA= 00°22'33.3" (LT)
 D= 05°20'35.14"
 T= 3.52
 L= 7.04
 R= 1072.33
 E= 0.01
 D.S.= 0

Curve* 2
 PI Sta= 1+52.49
 N= 1655408.9970
 E= 2347926.0019
 DELTA= 27°08'16.0" (LT)
 D= 30°25'21.14"
 T= 45.45
 L= 89.20
 R= 188.33
 E= 5.41
 D.S.= 0

Curve* 3
 PI Sta= 2+21.64
 N= 1655474.4035
 E= 2347953.2500
 DELTA= 41°42'53.9" (RT)
 D= 85°56'37.21"
 T= 25.40
 L= 48.54
 R= 66.67
 E= 4.68
 D.S.= 0

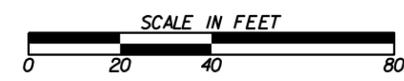
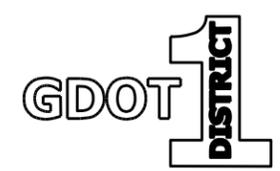
Curve* 4
 PI Sta= 2+81.69
 N= 1655501.3951
 E= 2348009.4132
 DELTA= 60°28'07.1" (LT)
 D= 90°28'01.27"
 T= 36.91
 L= 66.84
 R= 63.33
 E= 9.97
 D.S.= 0

Curve* 5
 PI Sta= 3+28.69
 N= 1655555.2618
 E= 2348013.0504
 DELTA= 01°49'04.9" (LT)
 D= 05°19'23.65"
 T= 17.08
 L= 34.15
 R= 1076.33
 E= 0.14
 D.S.= 0



ELEVATIONS - PROVIDED AT 25' INTERVALS, LOCATIONS OF WALL TYPE CHANGE, LOCATIONS OF VERTICAL BENDS

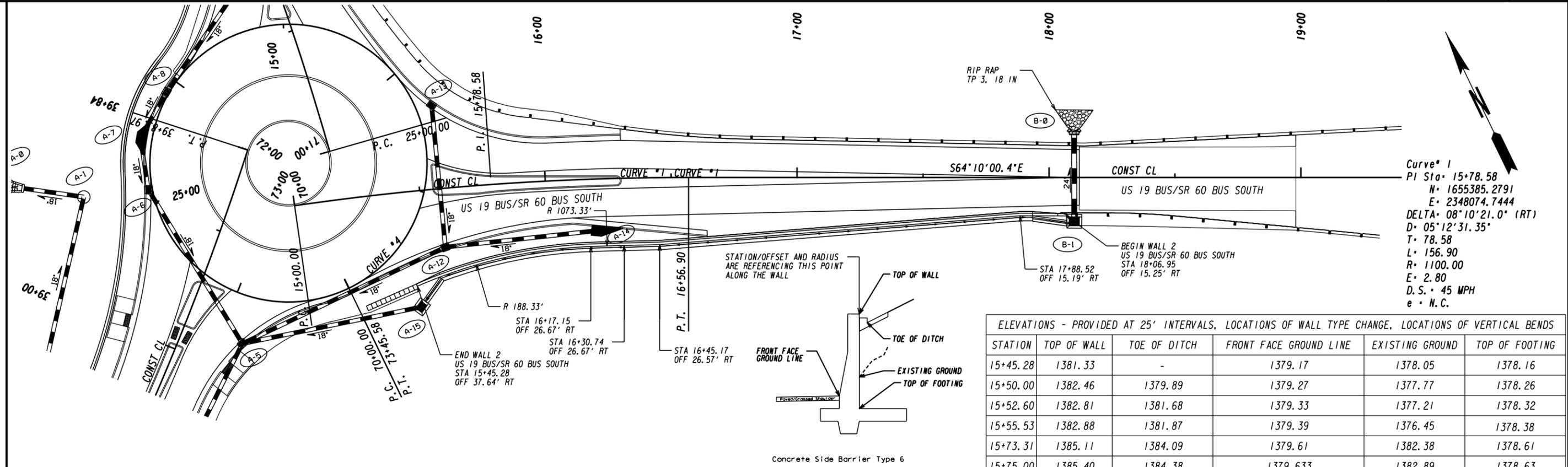
STATION	TOP OF WALL	BACK FACE GROUND LINE	TOP OF FOOTING	STATION	TOP OF WALL	BACK FACE GROUND LINE	TOP OF FOOTING
1+00.00	1378.01	1374.51	1369.81	2+56.21	1379.29	1375.79	1364.80
1+09.62	1378.33	1374.83	1367.71	2+67.69	1379.56	1376.06	1366.64
1+15.19	1378.51	1375.01	1366.01	2+71.51	1379.47	1375.97	1367.98
1+22.62	1378.73	1375.23	1364.07	2+75.00	1379.38	1375.88	1367.25
1+25.00	1378.80	1275.30	1363.59	2+81.34	1379.23	1375.73	1367.70
1+35.45	1379.06	1375.56	1362.56	2+93.61	1378.63	1375.13	1368.22
1+46.73	1379.16	1375.66	1362.66	3+00.00	1378.37	1374.87	1368.28
1+50.00	1379.15	1375.65	1362.65	3+16.41	1377.79	1374.29	1367.90
1+75.00	1379.09	1375.59	1362.59	3+21.31	1377.81	1374.31	1367.37
2+00.00	1379.02	1375.52	1362.52	3+22.30	1377.78	1374.28	1367.26
2+11.26	1379.00	1375.50	1362.50	3+25.00	1377.70	1374.20	1366.96
2+25.00	1379.03	1375.53	1362.53	3+26.20	1377.66	1374.16	1366.83
2+38.02	1379.13	1375.63	1362.63	3+35.63	1377.11	1373.61	1365.76
2+44.78	1379.02	1375.52	1362.63	3+42.83	1375.75	1372.85	1365.28
2+50.00	1379.14	1375.64	1363.63	3+45.77	1375.20	1372.53	1365.23



REVISION DATES

RETAINING WALL ENVELOPES
 US 19 BUS/SR 60 BUS @ OAK GROVE RD
 LUMPKIN COUNTY

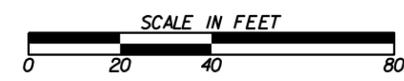
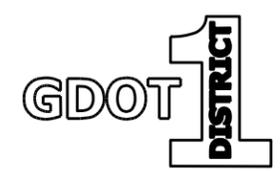
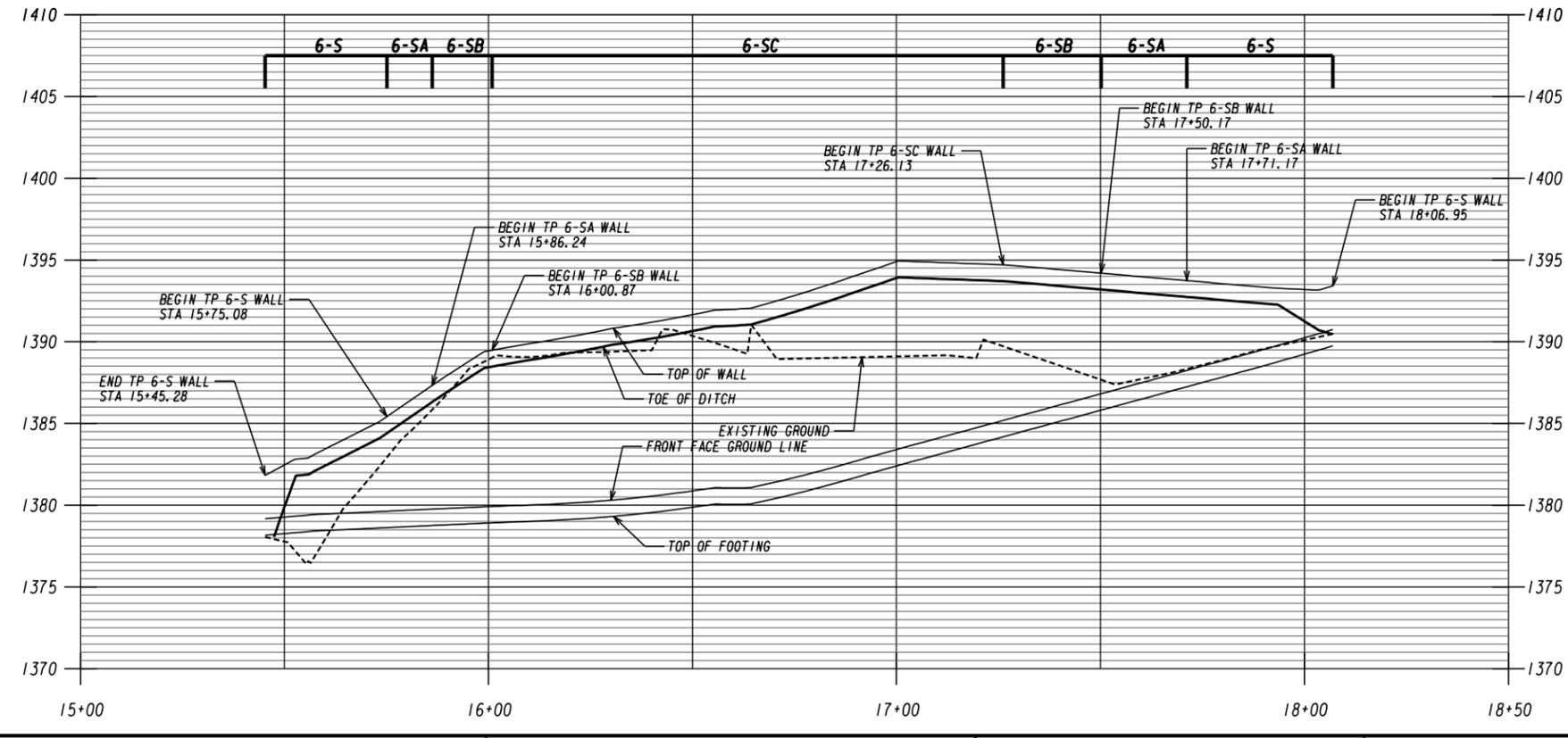
CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	31-0001
CORRECTED:	DATE:	
VERIFIED:	DATE:	



Curve # 1
 PI Sta= 15+78.58
 N= 1655385.2791
 E= 2348074.7444
 DELTA= 08°10'21.0" (RT)
 D= 05°12'31.35"
 T= 78.58
 L= 156.90
 R= 1100.00
 E= 2.80
 D.S. = 45 MPH
 e = N.C.

ELEVATIONS - PROVIDED AT 25' INTERVALS, LOCATIONS OF WALL TYPE CHANGE, LOCATIONS OF VERTICAL BENDS

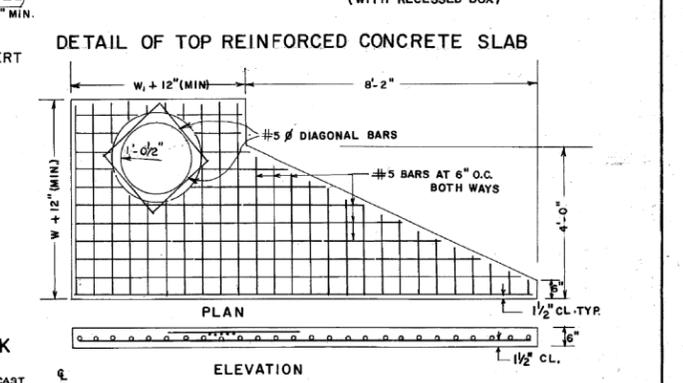
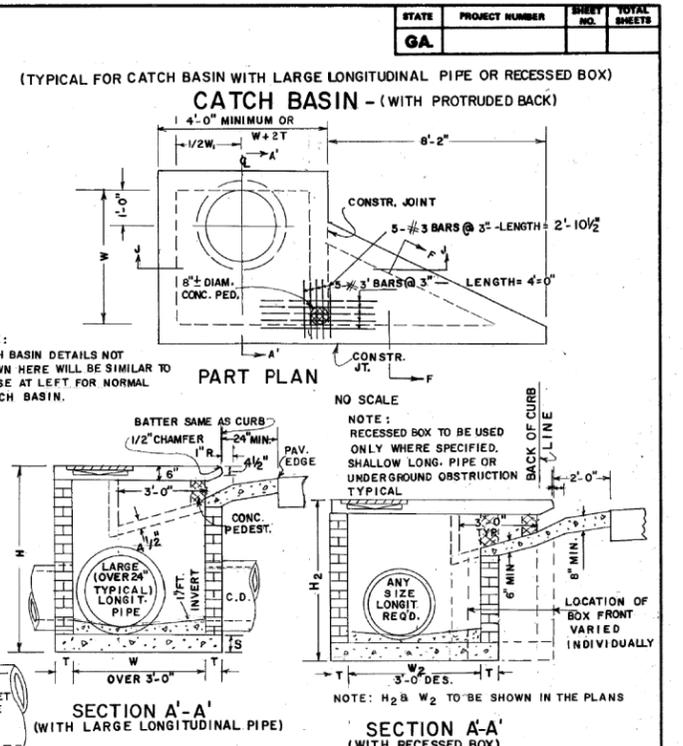
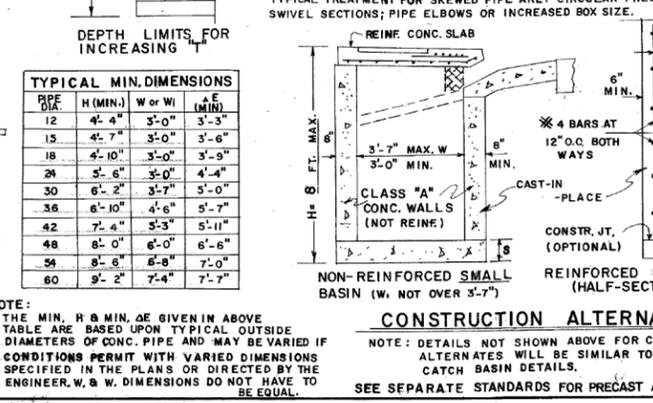
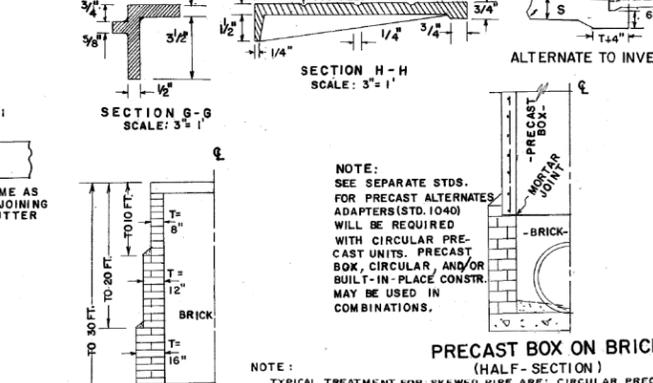
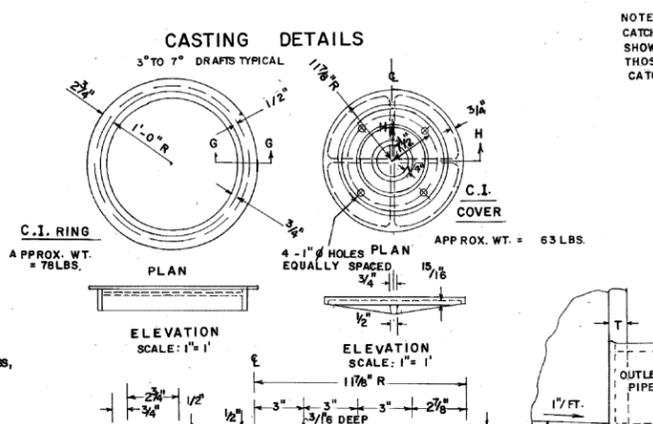
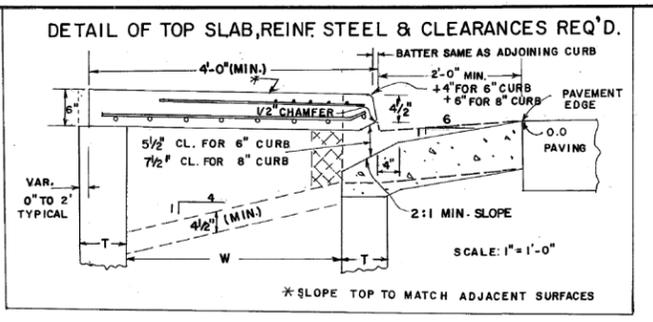
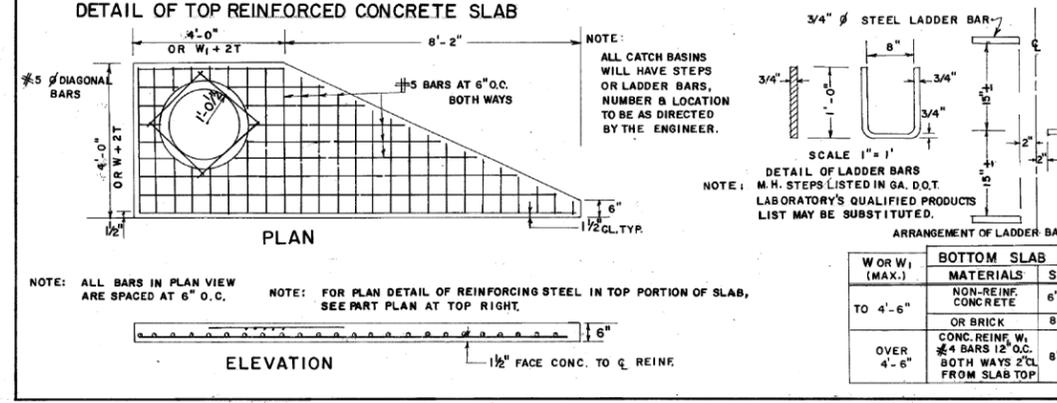
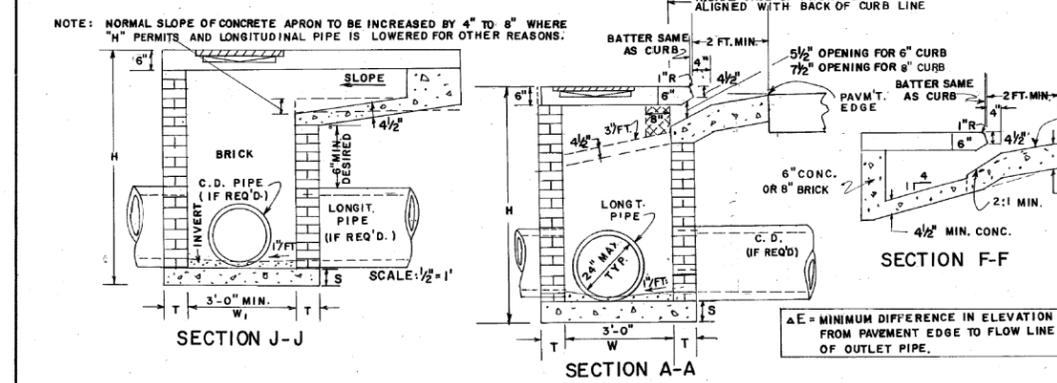
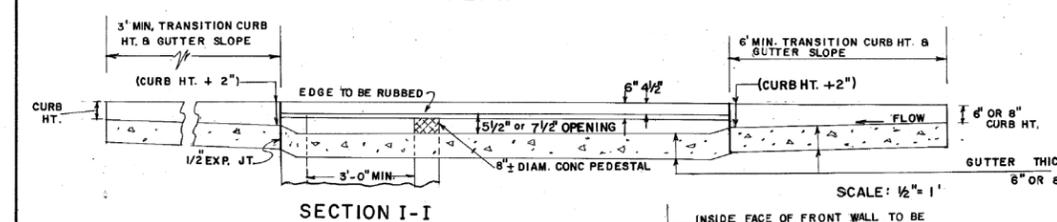
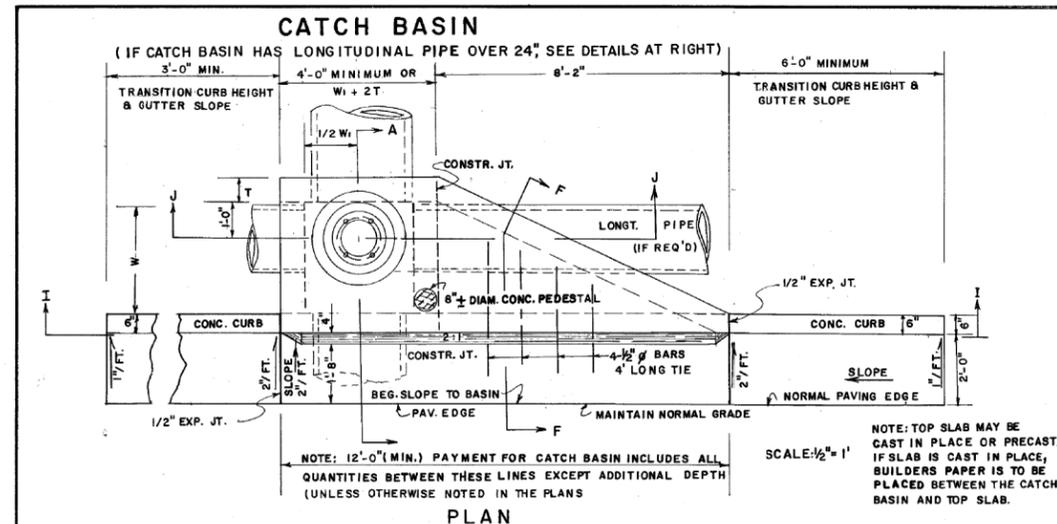
STATION	TOP OF WALL	TOE OF DITCH	FRONT FACE GROUND LINE	EXISTING GROUND	TOP OF FOOTING
15+45.28	1381.33	-	1379.17	1378.05	1378.16
15+50.00	1382.46	1379.89	1379.27	1377.77	1378.26
15+52.60	1382.81	1381.68	1379.33	1377.21	1378.32
15+55.53	1382.88	1381.87	1379.39	1376.45	1378.38
15+73.31	1385.11	1384.09	1379.61	1382.38	1378.61
15+75.00	1385.40	1384.38	1379.633	1382.89	1378.63
15+75.08	1385.42	1384.39	1379.634	1382.92	1378.63
15+86.24	1387.33	1386.32	1379.76	1385.85	1378.76
15+98.92	1389.40	1388.39	1379.90	1388.77	1378.90
16+00.00	1389.45	1388.44	1379.91	1388.91	1378.91
16+00.87	1389.48	1388.48	1379.92	1389.03	1378.92
16+25.00	1390.53	1389.54	1380.20	1389.35	1379.20
16+50.00	1391.65	1390.65	1380.87	1390.36	1379.87
16+55.50	1391.93	1390.93	1381.074	1389.93	1380.07
16+63.92	1392.04	1391.04	1381.069	1390.10	1380.07
16+75.00	1392.82	1391.82	1381.69	1388.96	1380.69
17+00.00	1394.90	1393.89	1383.405	1389.10	1382.40
17+00.90	1394.94	1393.93	1383.414	1389.10	1382.44
17+25.00	1394.71	1393.71	1385.11	1389.82	1384.10
17+26.13	1394.704	1393.704	1385.18	1389.72	1384.18
17+26.44	1394.701	1393.702	1385.20	1389.70	1384.20
17+50.00	1394.194	1393.194	1386.81	1389.70	1385.80
17+50.17	1394.190	1393.190	1386.80	1387.68	1385.82
17+71.17	1393.74	1392.74	1388.25	1388.34	1387.24
17+75.00	1393.66	1392.66	1388.51	1388.58	1387.50
18+00.00	1393.19	1391.25	1390.24	1390.10	1389.24
18+03.46	1393.15	1390.71	1390.49	1390.29	1389.49
18+06.95	1393.41	1390.46	1390.74	1390.48	1389.74



REVISION DATES

RETAINING WALL ENVELOPES
 US 19 BUS/SR 60 BUS @ OAK GROVE RD
 LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	31-0002
CORRECTED:	DATE:	
VERIFIED:	DATE:	



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

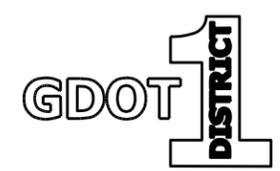
STANDARD
CATCH BASINS

FOR USE WITH CURB (6" HT. OR 8" HT.) & GUTTER

SCALE AS SHOWN
REV. 8 REDR. AUGUST, 1982

REV. 8
REDR. RMLI (SUBMITTED) *Ray E. Hardy*
TRA. GME STATE ROADS & AIRPORT DESIGN ENGR.
CHK. RKC (APPROVED) *Thomas D. Hardy*
STATE HIGHWAY ENGINEER

NUMBER
1033D

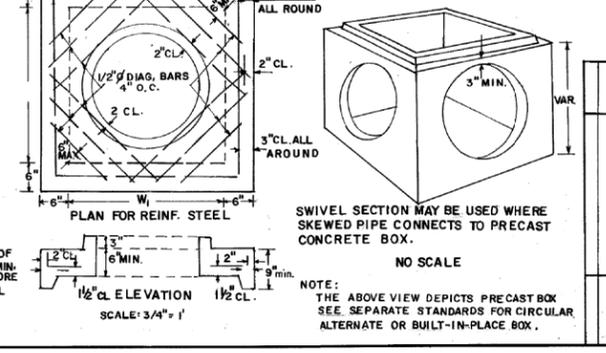
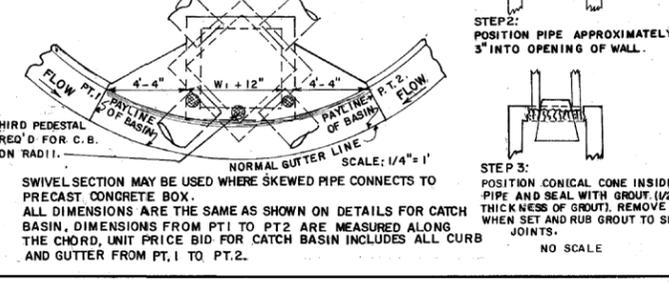
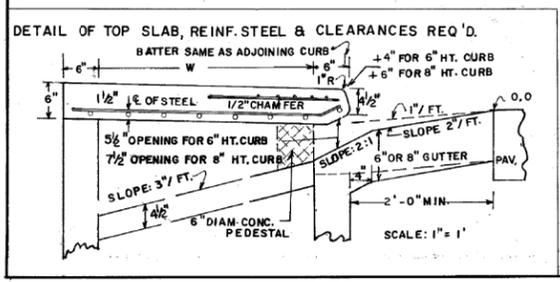
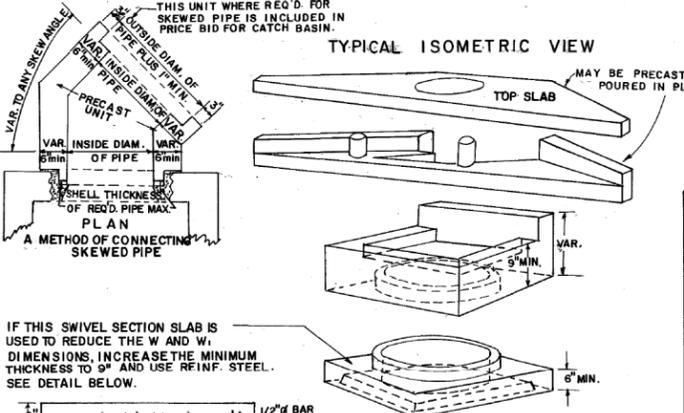
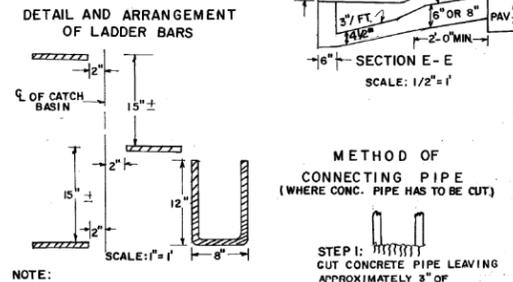
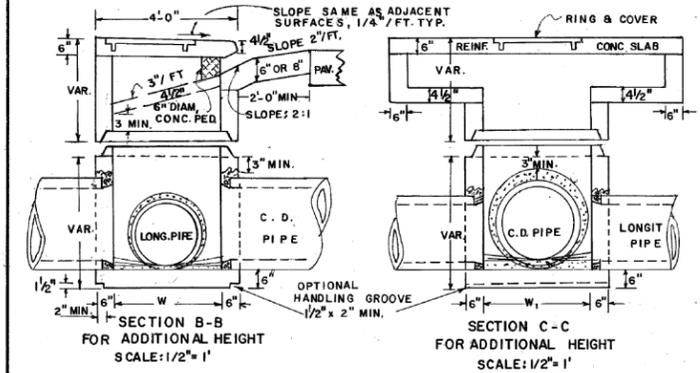
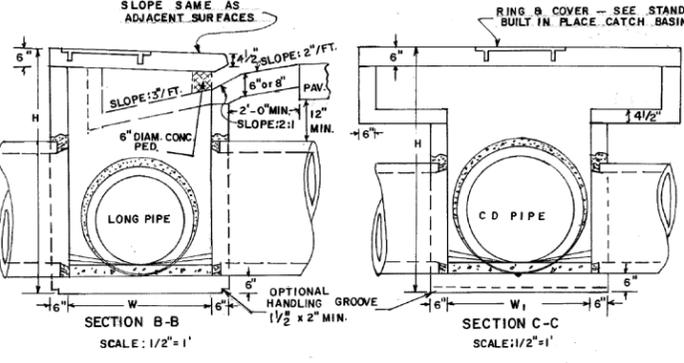
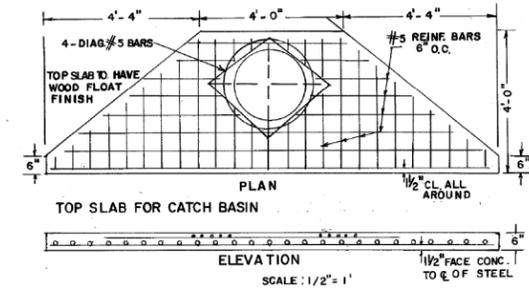
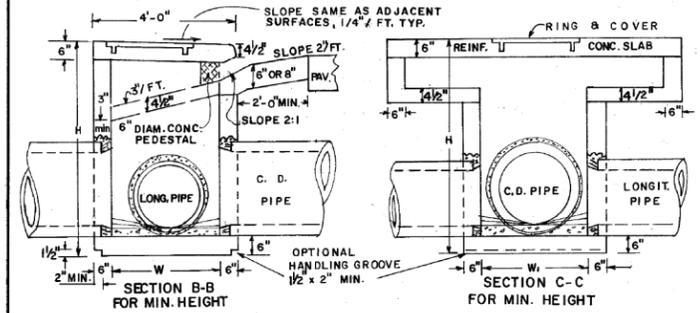
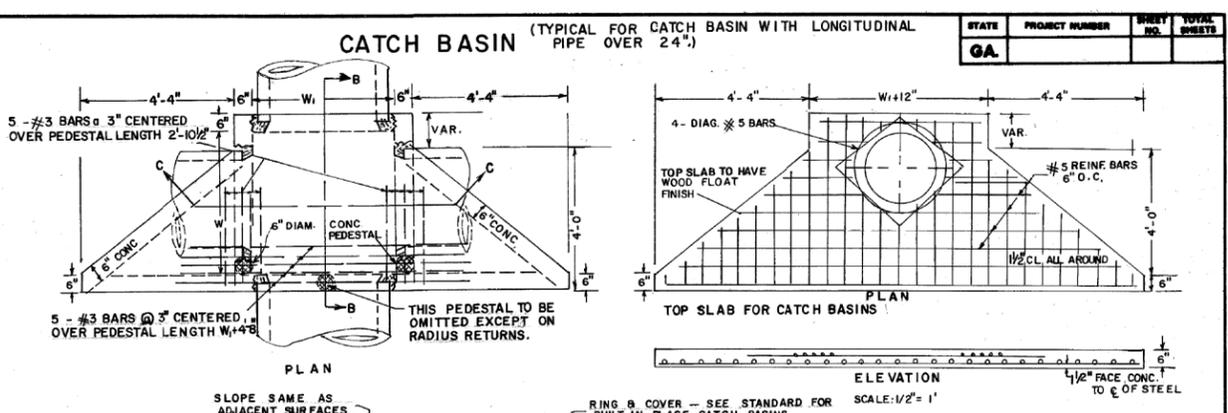
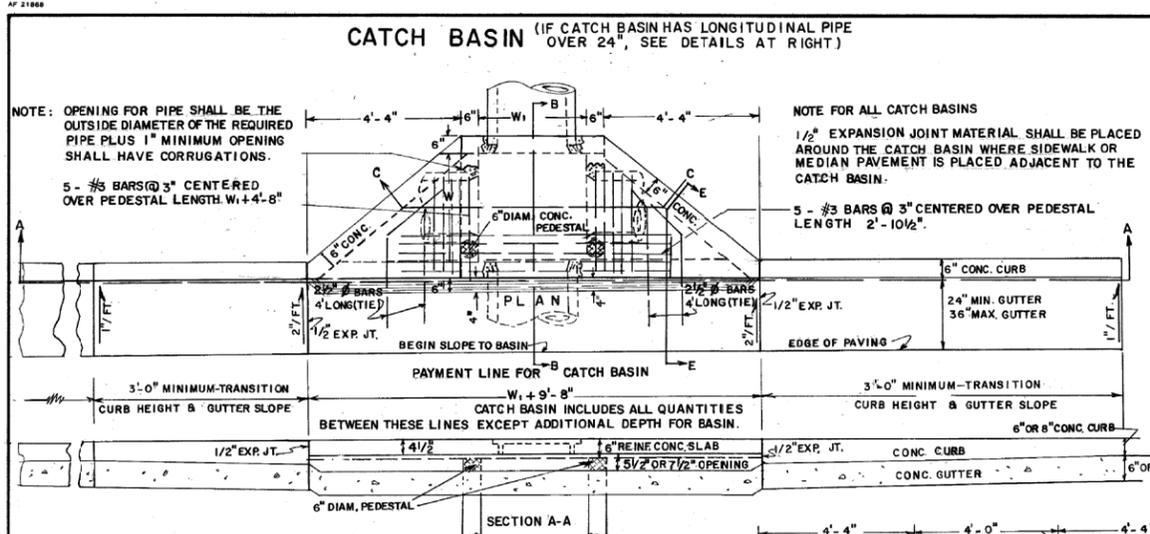


REVISION DATES		DATE	

GEORGIA STANDARDS
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

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

41-0005



DIMENSIONS FOR CATCH BASINS

PIPE SIZE	NORMAL W or W ₁	MIN. H
12"	3'-0"	4'-4"
15"	3'-0"	4'-7"
18"	3'-0"	4'-10"
24"	3'-0"	5'-6"
30"	3'-6"	6'-2"
36"	4'-0"	6'-10"
42"	5'-0"	7'-4"
48"	5'-0"	8'-0"
54"	6'-0"	8'-6"
60"	6'-0"	9'-2"

NOTE: DIMENSIONS FOR CATCH BASINS ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPES AND MAY BE VARIED IF CONDITIONS PERMIT AND THE ENGINEER APPROVES. W & W₁ DIMENSIONS DO NOT HAVE TO BE EQUAL.

ALTERNATE: BUILT-IN-PLACE, PRECAST BOX, AND/OR PRECAST CIRCULAR UNITS WITH THE REQUIRED ADAPTERS, REDUCERS, FITTINGS, CONNECTIONS, ETC. MAY BE USED IN COMBINATIONS.

NOTE: FOR RING & COVER DETAILS AND OTHER DETAILS NOT SHOWN, SEE STANDARD 1034 D FOR BUILT-IN-PLACE CATCH BASIN.

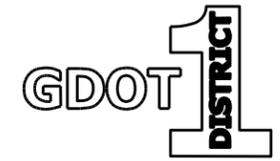
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD PRECAST CATCH BASINS
FOR USE WITH CURB (6" OR 8" HT.) & GUTTER (IN SAGS OR LOW POINTS)

SCALE AS SHOWN
REV. & REDR., SEPT. 1982

REV. & REDR. SUBMITTED: *Head E. Hardy*
TRA. G.M.E. (APPROVED): *Thomas D. Mendenhall*
CHK. R.K.C. STATE HIGHWAY ENGINEER

NUMBER 10340
PRECAST



REVISION DATES

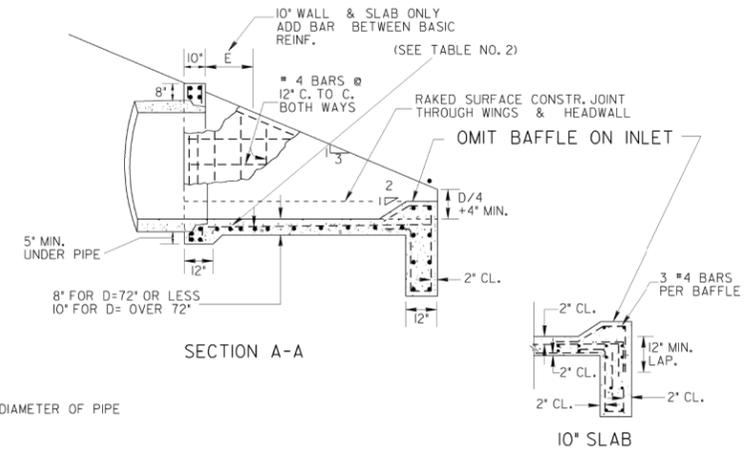
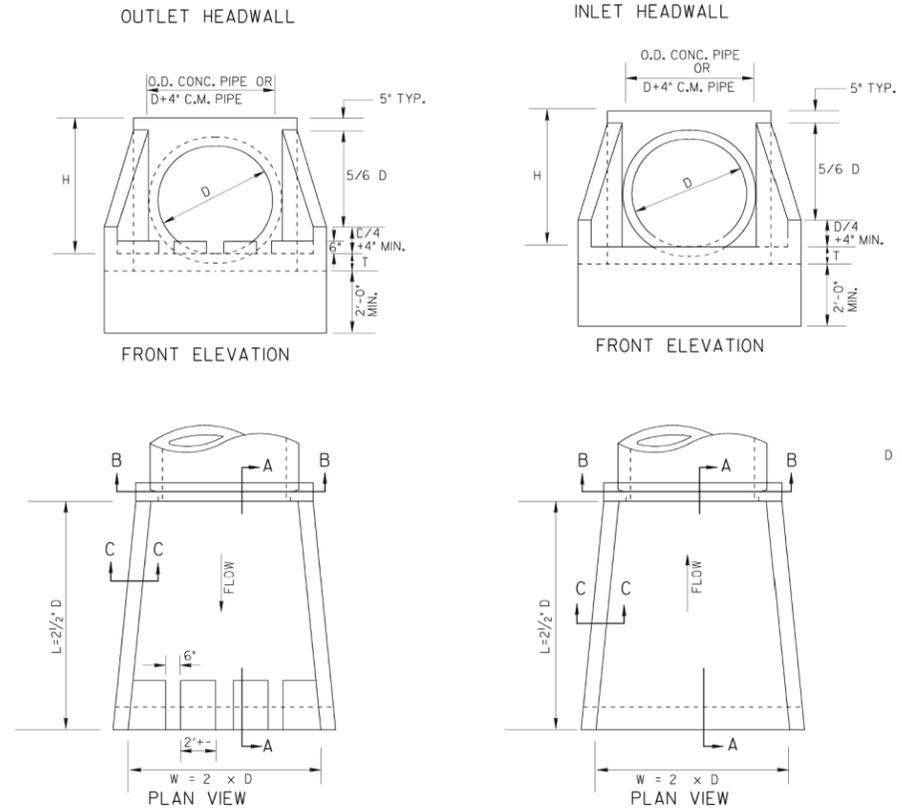
GEORGIA STANDARDS
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

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

41-0008

7/7/2004 10:49:45 AM \\GDOT\DRN\GDOT\GCF\GO_TIFF_OUTPUT.DCF_GOWENS_M\GARY\ENGLISH_STANDARDS_UPDATED_AND_UPDATED_INDEX\1125.PDF_G0-RD6

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



D = INSIDE DIAMETER OF PIPE

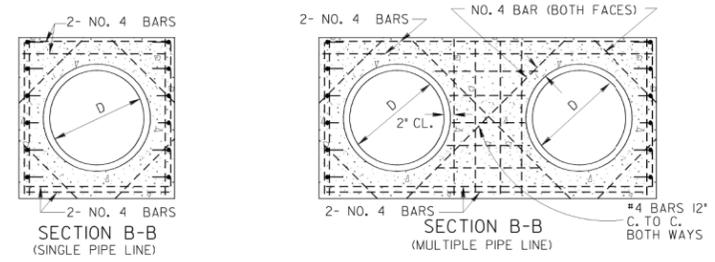


TABLE NO. 1 - QUANTITIES FOR HEADWALLS

D	CU. YDS. CONCRETE (PAY QUANTITIES)				LBS. STEEL (GIVEN FOR INFORMATION ONLY)			
	FOR SINGLE LINE		ADD FOR ADD'L LINE		FOR SINGLE LINE		ADD FOR EACH ADD'L LINE	
15"	0.87	0.93	0.60	0.66	102	113	73	83
18"	1.10	1.16	0.85	0.93	106	117	93	104
24"	1.61	1.69	1.29	1.37	127	138	124	134
30"	2.21	2.32	1.83	1.96	170	180	154	164
36"	2.92	3.05	2.49	2.63	238	254	196	212
42"	3.73	3.87	3.00	3.17	290	306	231	247
48"	4.62	4.80	3.58	3.74	335	351	265	281
54"	5.63	5.83	4.17	4.38	407	428	319	340
60"	6.72	6.95	4.82	5.01	456	477	360	391
72"	9.22	9.48	6.24	6.46	623	649	475	494
84"	14.84	15.19	9.05	9.29	1517	1539	1017	1044
96"	18.88	19.27	11.3	11.41	218	2150	1323	1350

*NOTE: QUANTITIES SHOWN WILL BE ACTUAL PAY QUANTITIES FOR CLASS "A" CONCRETE, INCLUDING REINFORCED STEEL. NO ADJUSTMENT WILL BE MADE FOR AS BUILT QUANTITIES.

D - INSIDE DIAMETER OF PIPE CULVERT

H = D + 10" MIN. FOR C.M. PIPE
 H = D + PIPE WALL THICKNESS + 8" FOR CONC. PIPE (3/12 D + 9" TYP.)
 T = 8" FOR D = 72" OR LESS
 T = 10" FOR D = OVER 72"

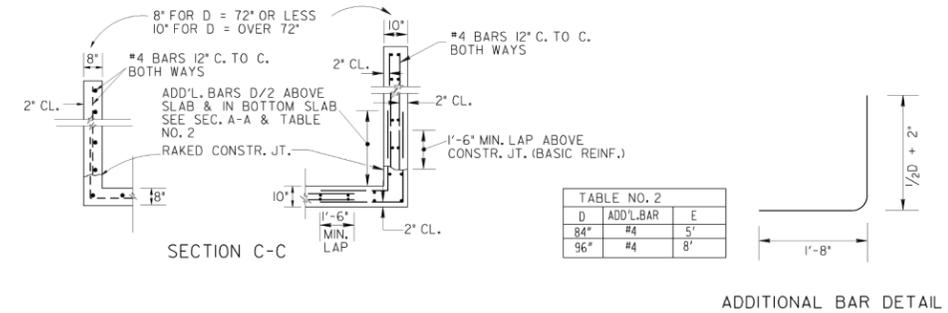


TABLE NO. 2

D	ADD'L BAR	E
84"	#4	5'
96"	#4	8'

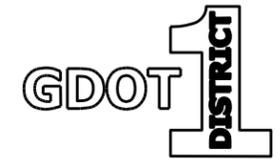
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD TAPERED
INLET HEADWALL - OUTLET HEADWALL
(BUILT-IN-PLACE)

NO SCALE REV. & REDR. OCT., 1999

DES. (SUBMITTED) *James H. Kinnel*
 DRAW. (APPROVED) *Carol L. Pugh*
 TRAFFIC ENGINEER & AIRPORT DESIGN ENGR.
 CHIEF ENGINEER

NUMBER 1125



REVISION DATES

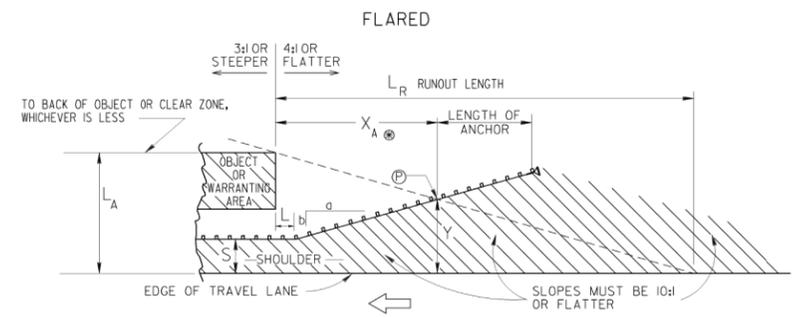
NO.	DATE	DESCRIPTION

GEORGIA STANDARDS
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	41-0009
CORRECTED:	DATE:	
VERIFIED:	DATE:	

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LENGTH OF GUARDRAIL ADVANCEMENT AT FIXED OBJECTS OR AT WARRANTING FILL SLOPES (TYPICAL)

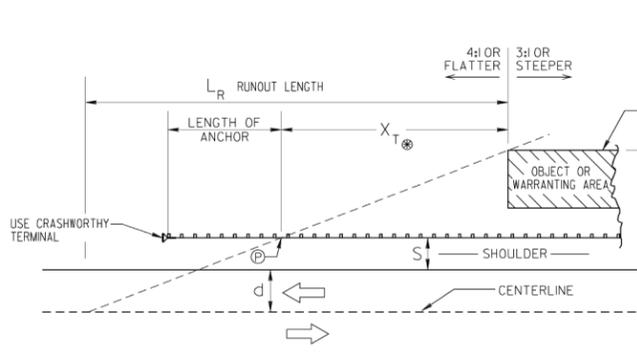


DESIGN SPEED (mph)	SHY-LINE OFFSET (ft)	FLARE RATE (a/b)	
		BARRIER INSIDE SHY-LINE	BARRIER AT OR BEYOND SHY-LINE
70	9	30	15
60	8	26	14
55	7	24	12
50	6.5	21	11
45	6	18	10
40	5	16	8
30	4	13	7

WHERE 'S' IS LESS THAN THE SHY-LINE OFFSET, USE FLATTER RATES GIVEN IN TABLE.

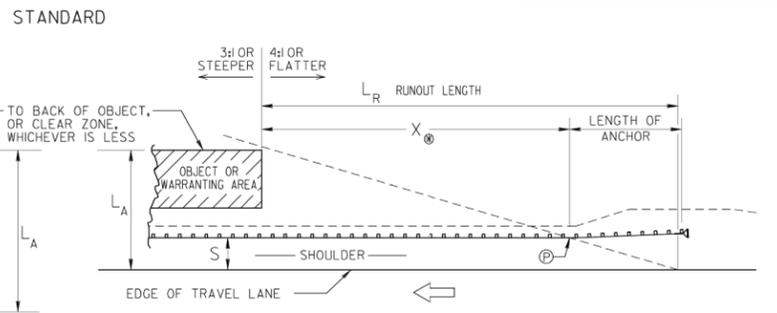
$$Y = L_A - \frac{L_A}{L_R} (X_A)$$

$$X_A = \frac{L_A + (b/a)L - S}{b/a + (L_A/L_R)}$$



$$X_T = L_R \times \frac{L_A - (S+d)}{L_A}$$

(TRAILING END)



$$X = L_R \times \frac{L_A - S}{L_A}$$

(APPROACH END)

DESIGN SPEED (MPH)	L _R Runout Length in feet			
	OVER 10000 (A.D.T.)	10000-10000 (A.D.T.)	1000-5000 (A.D.T.)	UNDER 1000 (A.D.T.)
80	470	430	380	330
70	360	330	290	250
60	300	250	210	200
50	230	190	160	150
40	160	130	110	100
30	110	90	80	70

S = NORMAL WIDTH OF USUABLE SHOULDER PLUS 2 FT (TYP.)
 P = BEGINNING OF TERMINAL (TYP.)
 X_A, X_T, AND X MEASURED TO THE END OF W-BEAM, WHERE TERMINAL BEGINS

CLEAR ZONE DISTANCES

CLEAR ZONE DISTANCES (FT) CHART

DESIGN SPEED	DESIGN ADT	FORESLOPES			BACKSLOPES		
		IV:6H OR FLATTER	IV:5H TO IV:4H	IV:3H	IV:3H	IV:5H TO IV:4H	IV:6H OR FLATTER
40 M.P.H. OR LESS	UNDER 750	7-10	7-10	**	7-10	7-10	7-10
	750-1500	10-12	12-14	**	12-14	12-14	12-14
	1500-6000	12-14	14-16	**	14-16	14-16	14-16
45-50 M.P.H.	UNDER 750	10-12	12-14	**	8-10	8-10	10-12
	750-1500	14-16	16-20	**	10-12	12-14	14-16
	1500-6000	16-18	20-26	**	12-14	14-16	16-18
55 M.P.H.	UNDER 750	12-14	14-18	**	8-10	10-12	10-12
	750-1500	16-18	20-24	**	10-12	14-16	16-18
	1500-6000	20-22	24-30	**	14-16	16-18	20-22
60 M.P.H.	UNDER 750	16-18	20-24	**	10-12	12-14	14-16
	750-1500	20-24	26-32*	**	12-14	16-18	20-22
	1500-6000	26-30	32-40*	**	14-18	18-22	24-26
65-70 M.P.H.	UNDER 750	18-20	20-26	**	10-12	14-16	14-16
	750-1500	24-26	28-36*	**	12-16	18-20	20-22
	1500-6000	28-32*	34-42*	**	16-20	22-24	26-28
OVER 6000	30-34*	38-46*	**	22-24	26-30	28-30	

* WHEN A SITE-SPECIFIC INVESTIGATION INDICATES A HIGH PROBABILITY OF CONTINUING CRASHES OR WHEN SUCH OCCURRENCES ARE INDICATED BY CRASH HISTORY, THE DESIGNER MAY PROVIDE CLEAR-ZONE DISTANCES GREATER THAN THE CLEAR ZONE SHOWN ABOVE. CLEAR ZONES MAY BE LIMITED TO 30 FT. FOR PRACTICALITY AND TO PROVIDE A CONSISTENT ROADWAY TEMPLATE IF PREVIOUS EXPERIENCE WITH SIMILAR PROJECTS OR DESIGNS INDICATES SATISFACTORY PERFORMANCE.

** BECAUSE RECOVERY IS LESS LIKELY ON THE UNSHIELDED, TRAVERSABLE IV:3H FILL SLOPES, FIXED OBJECTS SHOULD NOT BE PRESENT IN THE VICINITY OF THE TOE OF THESE SLOPES. RECOVERY OF HIGH-SPEED VEHICLES THAT ENCRoACH BEYOND THE EDGE OF THE SHOULDER MAY BE EXPECTED TO OCCUR BEYOND THE TOE OF SLOPE. DETERMINATION OF THE WIDTH OF THE RECOVERY AREA AT THE TOE OF SLOPE SHOULD CONSIDER RIGHT-OF-WAY AVAILABILITY, ENVIRONMENTAL CONCERNS, ECONOMIC FACTORS, SAFETY NEEDS, AND CRASH HISTORIES. ALSO, THE DISTANCE BETWEEN THE EDGE OF THE THROUGH TRAVELED LAND AND THE BEGINNING OF THE IV:3H SLOPE SHOULD INFLUENCE THE RECOVERY AREA PROVIDED AT THE TOE OF SLOPE. A 10-FT RECOVERY AREA AT THE TOE OF SLOPE SHOULD BE PROVIDED FOR ALL TRAVERSABLE, NON RECOVERABLE FILL SLOPES.

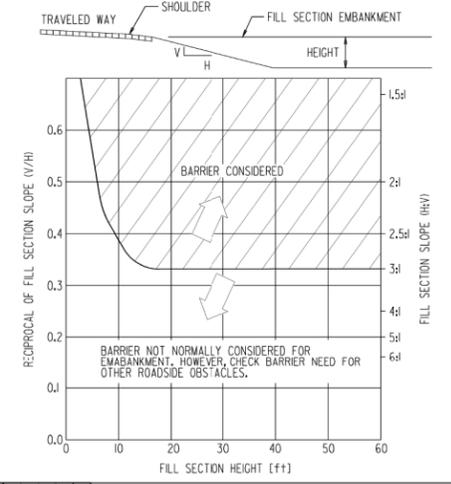
HORIZONTAL CURVE ADJUSTMENTS

RADIUS (FEET)	K _{CZ} (CURVE CORRECTION FACTOR)						
	DESIGN SPEED (MPH)						
	40	45	50	55	65	70	
2950	1.1	1.1	1.1	1.2	1.2	1.2	
2300	1.1	1.1	1.2	1.2	1.2	1.3	
1970	1.1	1.2	1.2	1.2	1.3	1.4	
1640	1.1	1.2	1.2	1.3	1.3	1.4	
1475	1.2	1.2	1.3	1.3	1.4	1.5	
1315	1.2	1.2	1.3	1.3	1.4		
1150	1.2	1.2	1.3	1.4	1.5		
985	1.2	1.3	1.4	1.5	1.5		
820	1.3	1.3	1.4	1.5			
660	1.3	1.4	1.5				
495	1.4	1.5					
330	1.5						

CZ_c = (L_c) (K_{CZ})
 Where:
 CZ_c = CLEAR ZONE ON OUTSIDE OF CURVATURE, FEET
 L_c = CLEAR ZONES DISTANCE, FEET (SEE CHART AT LEFT)
 K_{CZ} = CURVE CORRECTION FACTOR

NOTE:
 THE CURVE CORRECTION FACTOR IS APPLIED TO THE OUTSIDE OF CURVES ONLY. CORRECTIONS ARE TYPICALLY MADE ONLY TO CURVES LESS THAN 2,950-FT RADIUS.

COMPARATIVE BARRIER CONSIDERATION FOR EMBANKMENTS



DEPARTMENT OF TRANSPORTATION
 STATE OF GEORGIA

STANDARD
 GUARDRAIL WARRANT GUIDES
 LENGTHS OF ADVANCEMENT
 CLEAR ZONE DISTANCES
 FILL HEIGHT EMBANKMENTS

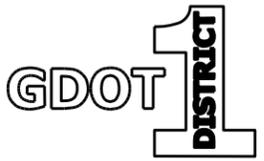
NOT TO SCALE DEC., 1999

REVISION DATES

REV. ANCH. LOC. UPDATED	DATE	REVISION
1-29-16	1-29-16	
FLARE TBL. ADDED CHART	4-16-15	
REVISED TO 2010 RG	9-4-07	
REVISED GUARDRAIL AND CLEAR ZONE		

DESIGNER: (SUBMITTED) *[Signature]*
 DRAWN: STATE DESIGN POLICY ENGINEER
 TRACED: (APPROVED) *[Signature]*
 CHECKED: CHECK ENGINEER

NUMBER 4000W



REVISION DATES

GEORGIA STANDARDS
 US 19 BUS/SR 60 BUS @ OAK GROVE RD
 LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	41-0011
CORRECTED:	DATE:	
VERIFIED:	DATE:	

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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

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

NOTE: WOOD POST ARE ALLOWABLE ONLY WHERE SPECIFIED.

FRONT SIDE

SCALE 0' 6" 1 FT.

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

FRONT SIDE

SCALE 0' 6" 1 FT.

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

FRONT SIDE

SCALE 0' 6" 1 FT.

GENERAL NOTES:

- SPECIFICATIONS GEORGIA STANDARD, CURRENT EDITION AND SUPPLEMENTS THERETO.
- STEEL POSTS MAY BE EITHER ROLLED OR WELDED STRUCTURAL SHAPES. STEEL OFFSET BLOCKS SHALL BE ROLLED. WELDED POSTS SHALL BE SEAL WELDED BETWEEN WEB AND FLANGE BEFORE GALVANIZING.
- WHERE WOOD POST OR WOOD OFFSET BLOCKS ARE PERMITTED, THE WOOD SHALL BE TREATED IN ACCORDANCE WITH GEORGIA STANDARD SPECIFICATIONS.
- ALL BOLTS USED FOR FASTENING THE RAIL AND OFFSET BLOCKS TO WOOD POSTS SHALL HAVE SUFFICIENT LENGTH TO EXTEND AT LEAST 1/4" BEYOND THE FULL NUT, UP TO 3" BEYOND.
- (a) "W" BEAM GUARDRAIL: ALL OFFSET BLOCKS SHALL BE 8" DEPTH PLASTIC BLOCKS EXCEPT FOR (d) BELOW.
(b) "T" BEAM GUARDRAIL: STANDARD INSTALLATION WILL USE 8" DEPTH PLASTIC BLOCKS UNLESS OTHERWISE APPROVED.
(c) 13 1/4" DEPTH MODIFIED STEEL OFFSETS MAY BE SPECIFIED WHERE JUSTIFIED FOR MORE SEVERE CONDITIONS. PAY ITEM IS --GUARDRAIL, TP "T", MODIFIED OFFSET BLOCK--PER LIN. FT.
(d) WOOD OFFSET BLOCKS MAY BE USED ONLY AT AN ISOLATED LOCATION WITHIN A RUN OF GUARDRAIL, WHERE OTHER BLOCK TYPES WOULD NOT PROVIDE PROPER FIT, AS DETERMINED BY THE ENGINEER OR SHOWN IN THE PLANS.
- POSTS WILL BE SPACED AT 6'-3" C. TO C., UNLESS OTHERWISE NOTED.
- ADDITIONAL LENGTH POSTS, WHERE SPECIFIED, SHALL BE 7'-0" AND 7'-6" LONG FOR "W" BEAM AND "T" BEAM GUARDRAILS RESPECTIVELY, WITH HOLES DIMENSIONED FROM THE POST-TOP THE SAME AS SHOWN.
- 9'-0" POST REQUIRED IF GUARDRAIL INSTALLED ON A 2:1 SLOPE.
- GROUT FILL SHALL BE A CONTROLLED LOW STRENGTH FLOWABLE FILL THAT HAS A MAXIMUM 28-DAY COMPRESSIVE STRENGTH OF 100 P.S.I. ACCORDING TO SPEC. 600.

MODIFIED STEEL OFFSET BLOCK FOR "T" BEAM GUARDRAIL

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

FRONT SIDE BACK

SCALE 0' 6" 1 FT.

WOOD OFFSET BLOCKS (WHERE PERMITTED, SEE NOTE 5(d))

FRONT OR BACK (FOR "W" BEAM) FRONT OR BACK (FOR "T" BEAM)

SCALE 0' 6" 1 FT.

STANDARD PLASTIC OFFSET BLOCKS

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

PLAN BACK VIEW (FOR "W" BEAM) BACK VIEW (FOR "T" BEAM)

SCALE 0' 6" 1 FT.

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

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

PLAN SIDE VIEW

SCALE 0' 6" 1 FT.

2:1 SLOPE DETAIL

SCALE 0' 6" 1 FT.

GUARDRAIL POST DETAILS IN ASPHALT OR CONCRETE PAVEMENT APPLICATIONS

PLAN SECTION A-A

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

FRONT

SCALE 0' 6" 1 FT.

ADDITIONAL DEPTH OFFSET BLOCKOUTS (FOR USE WHERE GREATER THAN STANDARD OFFSET IS SPECIFIED)

SCALE 0' 6" 1 FT.

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

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

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

WOOD BLOCKS WITH OVER 8" DEPTH ALSO PERMITTED

SCALE 0' 6" 1 FT.

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

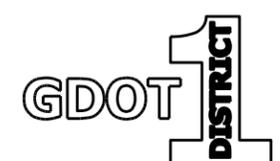
NOTE: ADDITIONAL DEPTH OFFSETS ARE PERMITTED ONLY WHERE AN ISOLATED POST MUST BE PLACED AT A GREATER THAN NORMAL OFFSET.

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

NOTE: WOOD BLOCKS WITH OVER 8" DEPTH ALSO PERMITTED

SCALE 0' 6" 1 FT.

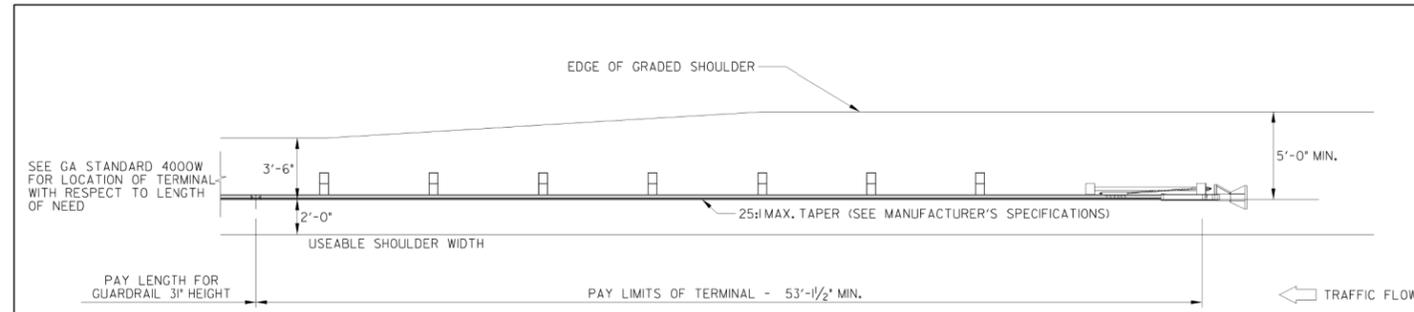
REV. IN-BM BLOCK TO 8" DEPTH		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA STANDARD POSTS AND OFFSET BLOCKS FOR "W" & "T" BEAM GUARDRAIL 3 INCH GUARDRAIL HEIGHT SCALE: AS SHOWN AUGUST 2011
ADDED NOW STRIP/RIGID PAV.		DATE	
INSTALLATION DETAILS		DATE	
REVISION		DATE	
DES. G.L.O.	(SUBMITTED) <i>B.A.H.</i>	NUMBER	4381
DRW. G.L.O.	STATE DESIGN POLICY ENGINEER		
CHK. B.R.E.	(APPROVED) <i>Margaret B. Pirelo</i>		
REVIEW B.A.S.	CHIEF ENGINEER		



REVISION DATES		GEORGIA STANDARDS	
		US 19 BUS/SR 60 BUS @ OAK GROVE RD	
		LUMPKIN COUNTY	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	41-0014	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

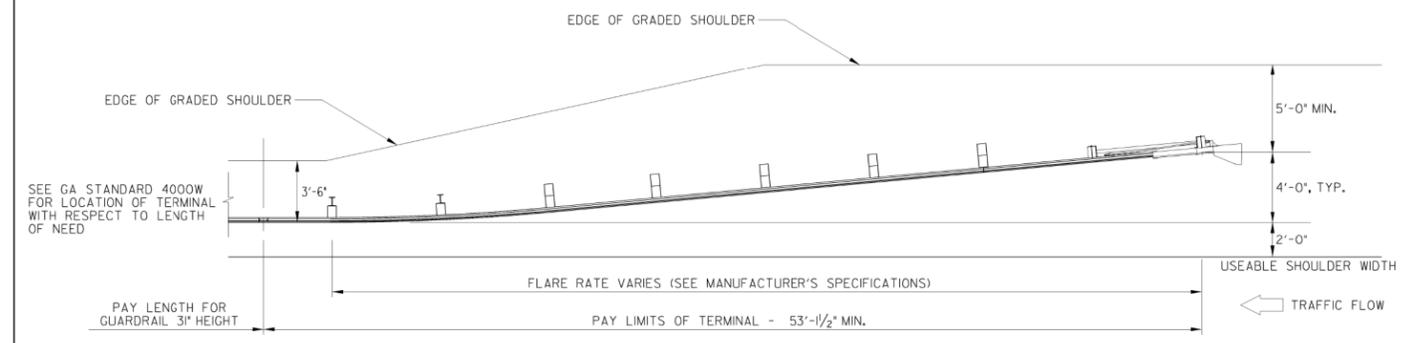


**TYPE I2A - 3' GUARDRAIL TERMINAL
(TANGENT, ENERGY-ABSORBING)**

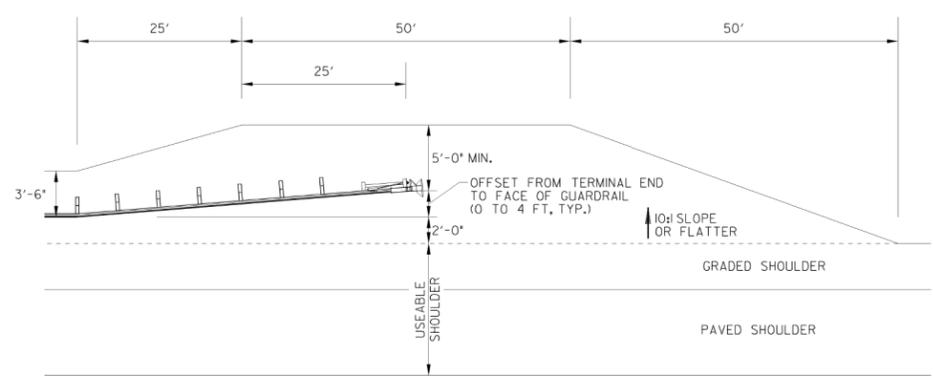
GENERAL NOTES:

- SPECIFICATIONS: GEORGIA STANDARD CURRENT EDITION, AND SUPPLEMENTS THERETO.
- SEE GDOT OPL 64 FOR APPROVED PRODUCTS.
- THIS SHEET DEPICTS THE PAY LIMITS FOR GUARDRAIL AND TYPE I2 TERMINALS. TYPE I2 TERMINALS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- W-BEAM INSTALLATIONS LESS THAN 150 FEET IN ADVANCE OF ANY SHIELDED OBJECT OR TOTAL LENGTH OF W-BEAM INSTALLATION IS LESS THAN ABOUT 150 FEET, AN ENERGY-ABSORBING TERMINAL SHOULD BE SELECTED.

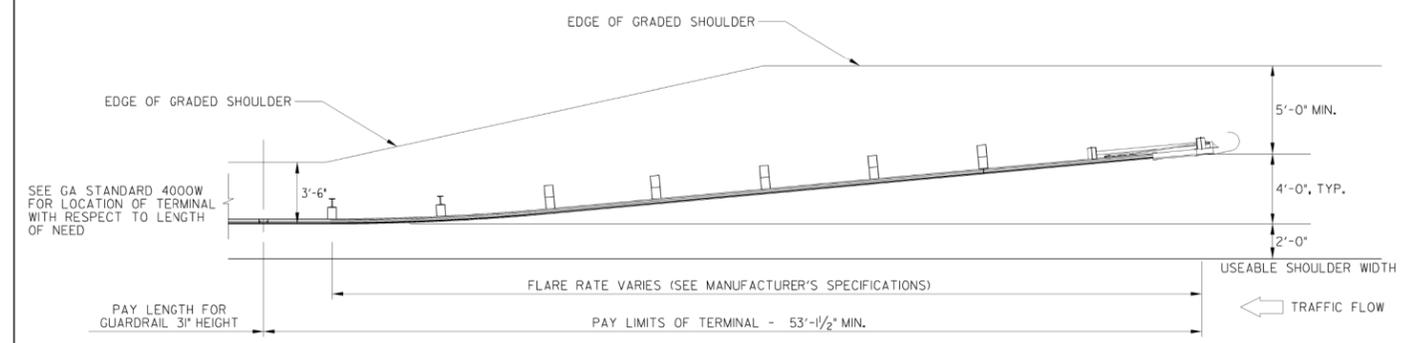
ITEM NO.	UNITS	DESCRIPTION
64I-5015	EA	GUARDRAIL TERMINAL, TP I2A - 3', TANGENT, ENERGY-ABSORBING
64I-5020	EA	GUARDRAIL TERMINAL, TP I2B - 3', FLARED, ENERGY-ABSORBING
64I-5025	EA	GUARDRAIL TERMINAL, TP I2C - 3', FLARED, NON-ENERGY-ABSORBING



**TYPE I2B - 3' GUARDRAIL TERMINAL
(FLARED, ENERGY-ABSORBING)**



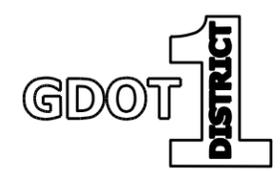
TERMINAL PAD GRADING DETAIL



**TYPE I2C - 3' TERMINAL
(FLARED, NON-ENERGY-ABSORBING)**

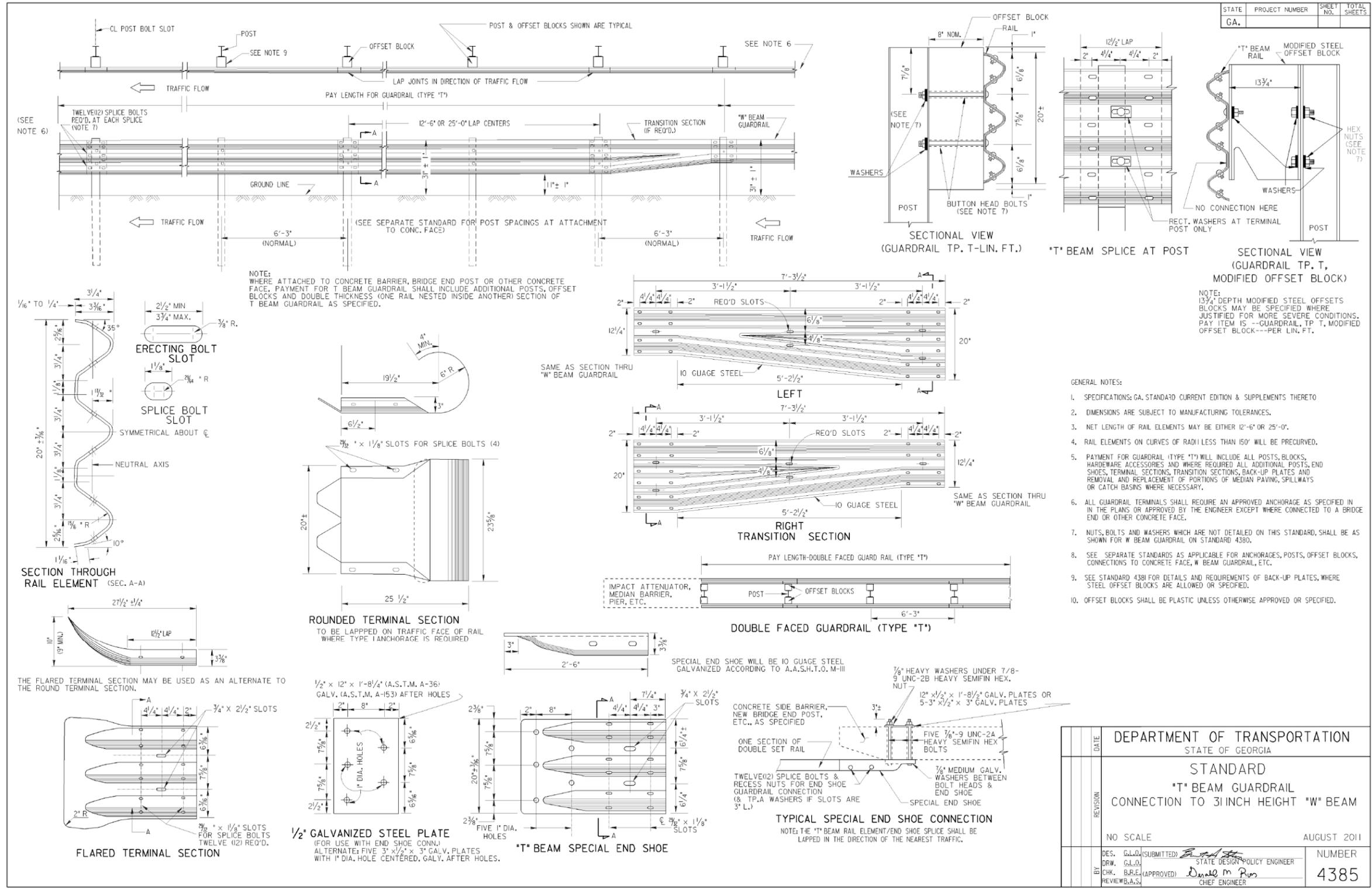
1-29-16		DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
ADDED I2A, I2B, & I2C; ADDED GRADING DTL		REVISION	STANDARD GUARDRAIL TERMINALS, TYPE I2A, I2B, AND I2C 31 INCH GUARDRAIL HEIGHT	
NO SCALE			AUGUST 2011	
DES. G.L.O.	CHK. B.R.E.	REVIEW B.A.S.	NO. 4384	NUMBER 4384
DRW. G.L.O.	BY		STATE DESIGN POLICY ENGINEER	
			CHIEF ENGINEER	

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REVISION DATES		GEORGIA STANDARDS	
		US 19 BUS/SR 60 BUS @ OAK GROVE RD LUMPKIN COUNTY	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	41-0017	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

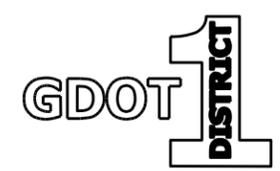
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9/21/2011 8:14:06 AM \\GDOT-DSN1\GDPLOT\OCF\GD_K1p8000.qcf gowens V:\GARY\31 inch guardrail etandards\4270 rev 4385.pdf



STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

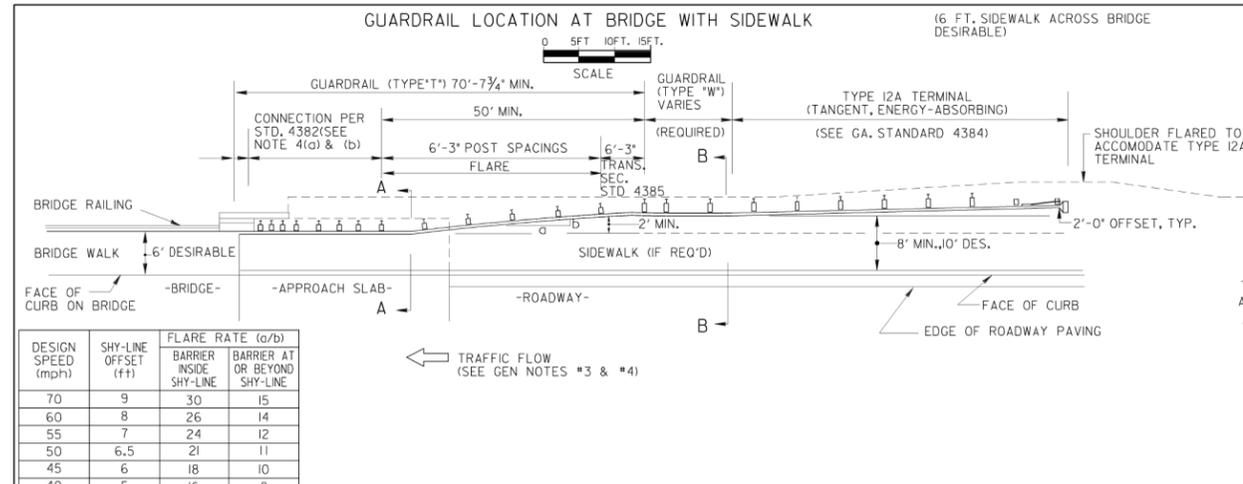
- GENERAL NOTES:**
- SPECIFICATIONS: GA. STANDARD CURRENT EDITION & SUPPLEMENTS THERTO
 - DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
 - NET LENGTH OF RAIL ELEMENTS MAY BE EITHER 12'-6" OR 25'-0".
 - RAIL ELEMENTS ON CURVES OF RADIUS LESS THAN 150' WILL BE PRECURRED.
 - PAYMENT FOR GUARDRAIL (TYPE *T*) WILL INCLUDE ALL POSTS, BLOCKS, HARDWARE ACCESSORIES AND WHERE REQUIRED ALL ADDITIONAL POSTS, END SHOES, TERMINAL SECTIONS, TRANSITION SECTIONS, BACK-UP PLATES AND REMOVAL AND REPLACEMENT OF PORTIONS OF MEDIAN PAVING, SPILLWAYS OR CATCH BASINS WHERE NECESSARY.
 - ALL GUARDRAIL TERMINALS SHALL REQUIRE AN APPROVED ANCHORAGE AS SPECIFIED IN THE PLANS OR APPROVED BY THE ENGINEER EXCEPT WHERE CONNECTED TO A BRIDGE END OR OTHER CONCRETE FACE.
 - NUTS, BOLTS AND WASHERS WHICH ARE NOT DETAILED ON THIS STANDARD, SHALL BE AS SHOWN FOR W BEAM GUARDRAIL ON STANDARD 4380.
 - SEE SEPARATE STANDARDS AS APPLICABLE FOR ANCHORAGES, POSTS, OFFSET BLOCKS, CONNECTIONS TO CONCRETE FACE, W BEAM GUARDRAIL, ETC.
 - SEE STANDARD 4381 FOR DETAILS AND REQUIREMENTS OF BACK-UP PLATES, WHERE STEEL OFFSET BLOCKS ARE ALLOWED OR SPECIFIED.
 - OFFSET BLOCKS SHALL BE PLASTIC UNLESS OTHERWISE APPROVED OR SPECIFIED.

DATE	DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA
REVISION	STANDARD *T* BEAM GUARDRAIL CONNECTION TO 31 INCH HEIGHT *W* BEAM
NO SCALE	AUGUST 2011
DES. G.L.O. (SUBMITTED)	NUMBER
DRW. G.L.O.	4385
CHK. B.R.E. (APPROVED)	
REVIEW B.A.S.	



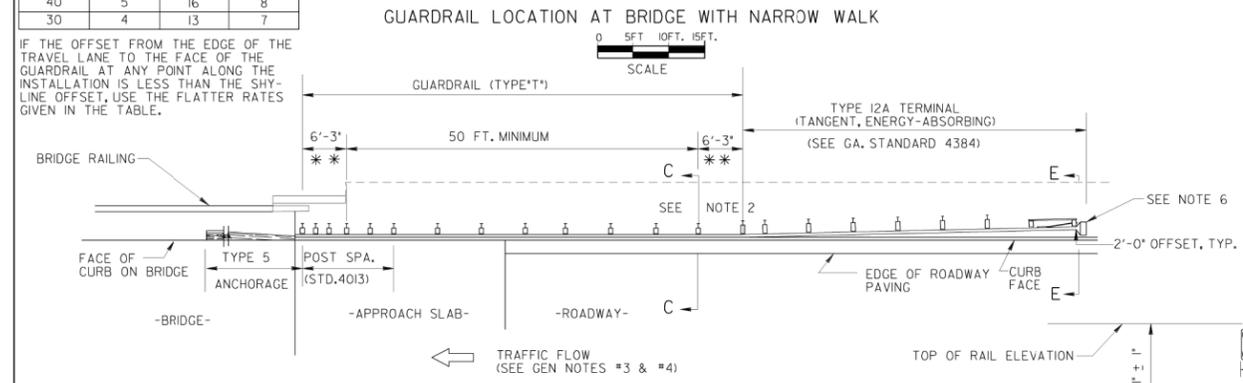
REVISION DATES		GEORGIA STANDARDS	
		US 19 BUS/SR 60 BUS @ OAK GROVE RD LUMPKIN COUNTY	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	41-0018	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

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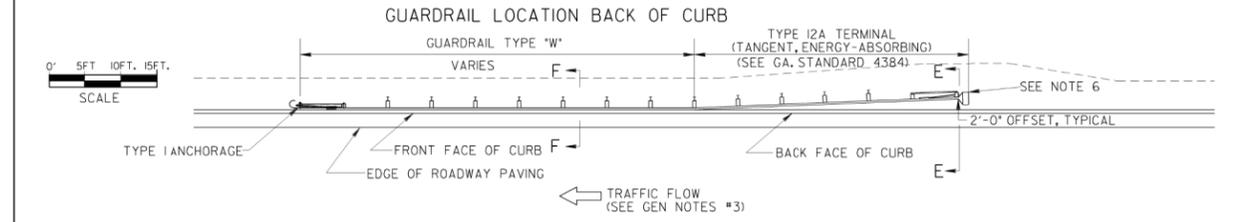
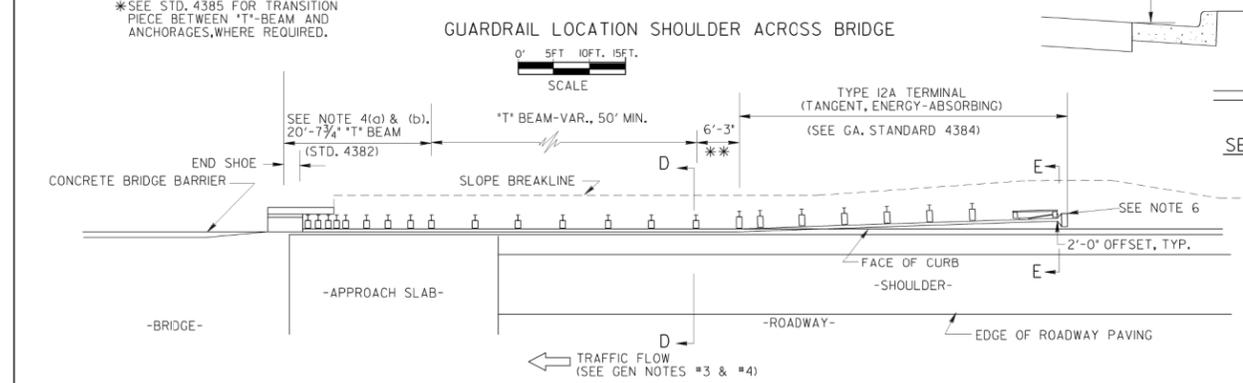


DESIGN SPEED (mph)	SHY-LINE OFFSET (ft)	FLARE RATE (a/b)	BARRIER AT OR BEYOND SHY-LINE
70	9	30	15
60	8	26	14
55	7	24	12
50	6.5	21	11
45	6	18	10
40	5	16	8
30	4	13	7

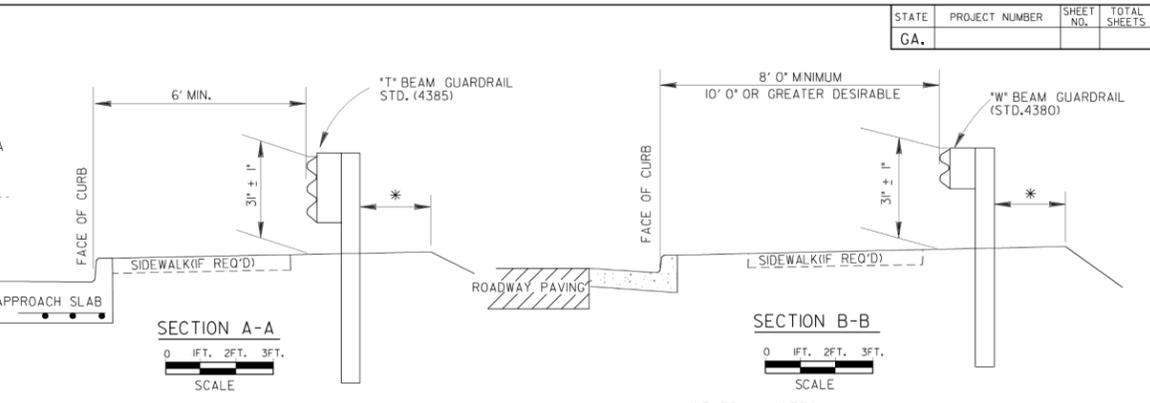
IF THE OFFSET FROM THE EDGE OF THE TRAVEL LANE TO THE FACE OF THE GUARDRAIL AT ANY POINT ALONG THE INSTALLATION IS LESS THAN THE SHY-LINE OFFSET, USE THE FLATTER RATES GIVEN IN THE TABLE.



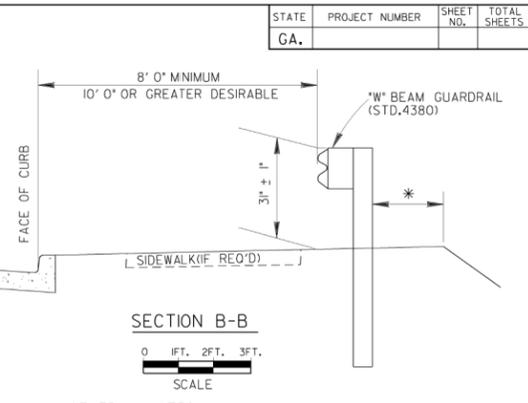
*SEE STD. 4385 FOR TRANSITION PIECE BETWEEN T-BEAM AND ANCHORAGES, WHERE REQUIRED.



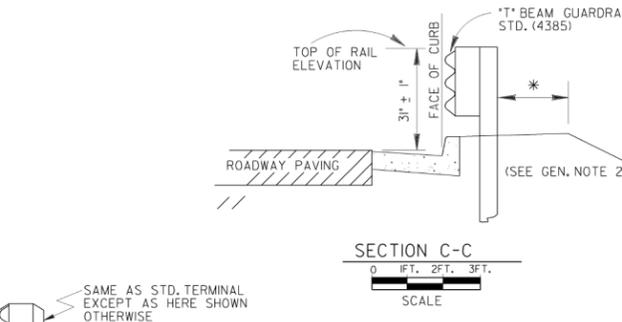
NOTE: APPLICATION OF ABOVE DETAILS IS TYPICAL FOR URBAN TYPE FACILITIES WITH CONTINUOUS CONCRETE CURB & GUTTER ADJACENT TO THE PAVEMENT. SEE SEPARATE DETAILS WHERE SECTIONS OF ASPHALT CURB ARE LOCATED UNDER GUARDRAIL ON SHOULDERS OF RURAL TYPE FACILITIES.



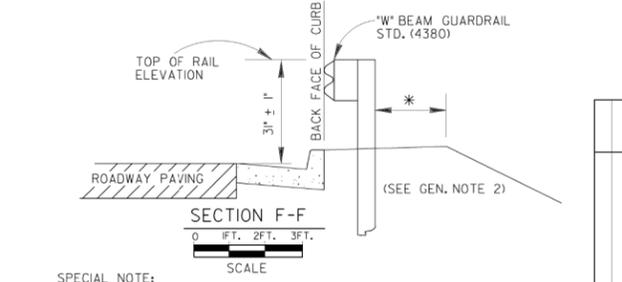
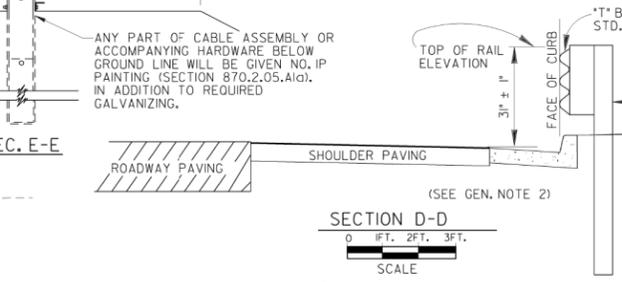
* DISTANCE FROM BACK OF POST TO EDGE OF GRADED SHOULDER SHALL NOT BE LESS THAN 2 FEET WITH NORMAL LENGTH POST AND NOT LESS THAN 1 FOOT WITH ADDITIONAL LENGTH POST. (STD. 4381)



- #### GENERAL NOTES:
- SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
 - IF GUARDRAIL IS DIRECTLY ABOVE CURB, DO NOT USE STD. 10330, 10336, 10340, 10346 CATCH BASINS AT SAME LOCATION. EITHER USE OTHER DRAINAGE STRUCTURES OR ADJUST LOCATION OF CATCH BASINS TO MISS GUARDRAIL.
 - (a) TYPE I2A, I2B, OR I2C TERMINALS ARE REQUIRED AT ALL APPROACH ENDS OF GUARDRAIL AND AT TRAILING ENDS THAT FALL WITHIN THE C.Z.W. OF THE TWO-WAY TRAFFIC. C.Z.W.=CLEAR ZONE WIDTH.
(b) TYPE I ANCHORAGE WITH A 30\"/>



SAME AS STD. TERMINAL EXCEPT AS HERE SHOWN OTHERWISE



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

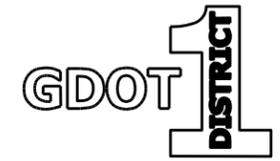
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD GUARDRAIL LOCATION

(ON ROADS WITH CURB & GUTTER, HEADER CURB OR INTEGRAL CURB)
3 INCH GUARDRAIL HEIGHT

SCALE AS SHOWN AUGUST 2011

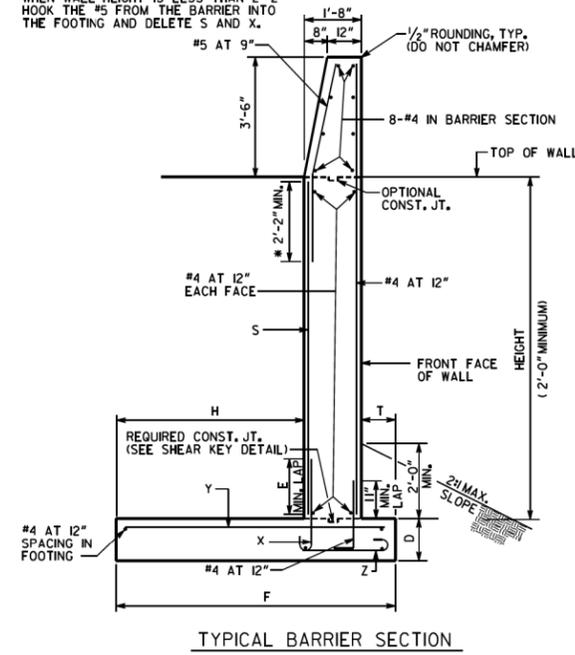
DES. G.L.O. (SUBMITTED)	DATE	NUMBER
DRW. G.L.O.		4391
CHK. B.R.E. (APPROVED)		
REVIEW B.A.S.		



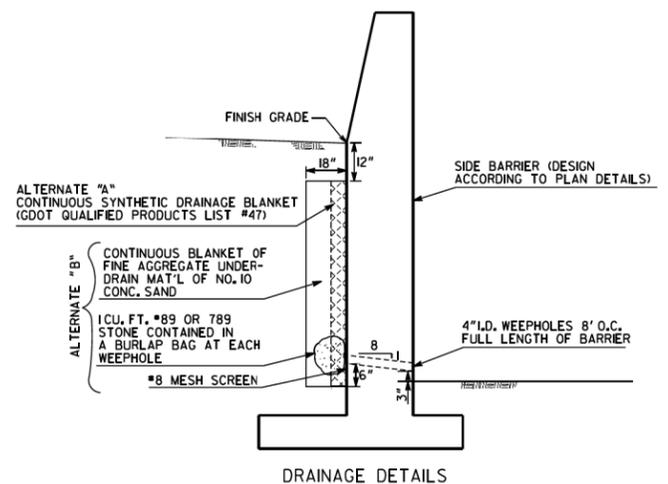
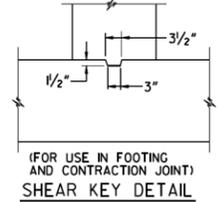
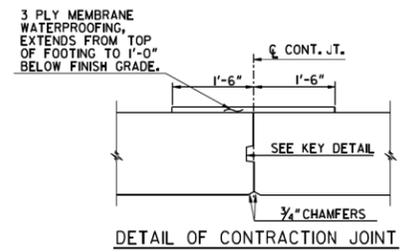
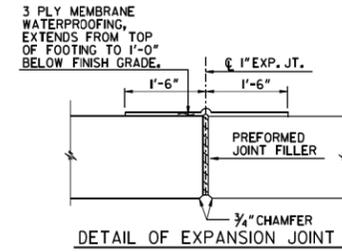
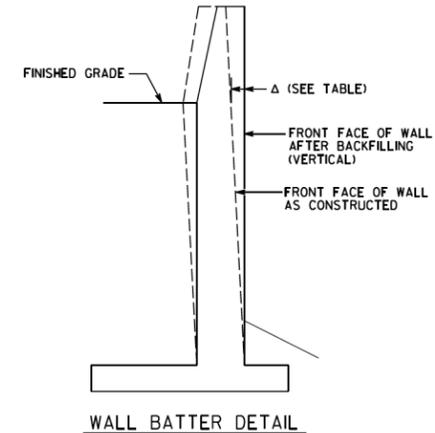
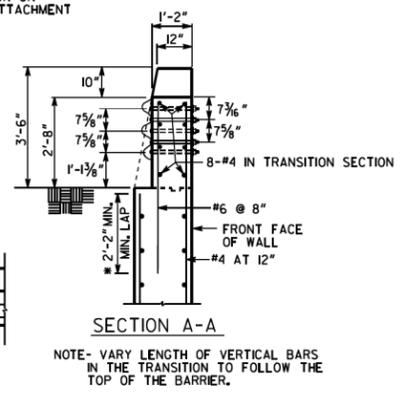
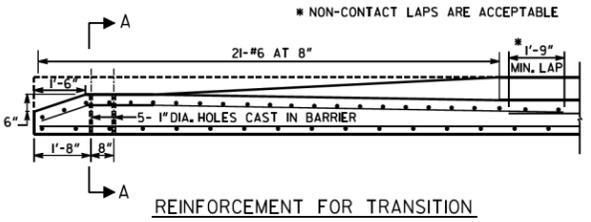
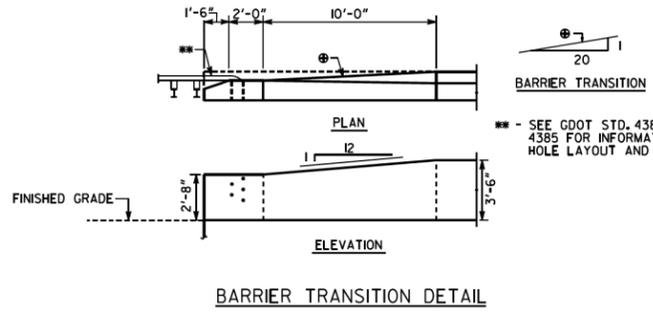
REVISION DATES		GEORGIA STANDARDS	
		US 19 BUS/SR 60 BUS @ OAK GROVE RD LUMPKIN COUNTY	
CHECKED:	DATE:	CHECKED:	DATE:
BACKCHECKED:	DATE:	CORRECTED:	DATE:
CORRECTED:	DATE:	VERIFIED:	DATE:

DRAWING No. 41-0019

* NON-CONTACT LAPS ARE ACCEPTABLE. WHEN WALL HEIGHT IS LESS THAN 2'-2" HOOK THE #5 FROM THE BARRIER INTO THE FOOTING AND DELETE S AND X.



MAX. HEIGHT	WALL DIMENSIONS					REINFORCEMENT				Δ (INCHES)	MAX. FACTORED BEARING PRESSURE	TYPE
	D	E	F	H	T	S	X	Y	Z			
7'	1'-0"	2'-2"	6'-8"	3'-9"	1'-3"	#5 AT 11"	#5 AT 11"	#5 AT 11"	#4 AT 12"	0"	2.6 KSF	2-S
9'	1'-0"	2'-2"	8'-2"	5'-3"	1'-3"	#5 AT 9"	#5 AT 9"	#5 AT 9"	#4 AT 12"	1/8"	2.4 KSF	2-SA
11'	1'-3"	2'-2"	9'-2"	6'-3"	1'-3"	#5 AT 8"	#5 AT 8"	#6 AT 8"	#4 AT 12"	1/8"	3.0 KSF	2-SB
13'	1'-3"	2'-2"	10'-5"	7'-3"	1'-6"	#5 AT 7"	#5 AT 7"	#6 AT 7"	#4 AT 12"	3/8"	3.3 KSF	2-SC



STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

- GENERAL NOTES:
- SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
 - CONCRETE SHALL BE CLASS "AA", REINFORCING STEEL SHALL BE GRADE 60.
 - DRAINAGE DETAIL ALTERNATES A OR B, PER THE DETAIL ON THIS SHEET, ARE REQUIRED FOR TYPES 2-S, 2-SA, 2-SB, AND 2-SC. INCLUDE COSTS OF MATERIALS AND WORK IN PRICE BID FOR SIDE BARRIER.
 - MAINTAIN 2" COVER ON ALL REINFORCING IN STEM AND BARRIER AND 3" COVER IN FOOTING. USE OF FORMLINERS PER THE CONTRACT WILL REQUIRE OVERALL STEM AND BARRIER WIDTHS TO BE INCREASED TO MAINTAIN COVER.
 - EXPOSED CONCRETE SURFACES SHALL RECEIVE A TYPE III FINISH UNLESS A FORMLINER IS REQUIRED PER THE CONTRACT. FORMLINERS SHALL NOT BE APPLIED TO THE BARRIER FACE.
 - APPLY A GRAFFITI PROOF COATING AS PER SECTION 838 TO ALL EXPOSED CONCRETE SURFACES.
 - SIDE BARRIERS OVER 20'-0" IN LENGTH SHALL HAVE CONTRACTION JOINTS SPACED AT A MAXIMUM OF 20'-0". CONTRACTION JOINTS SHALL EXTEND THROUGH THE BARRIER, AND STEM. SIDE BARRIERS OVER 80'-0" IN LENGTH SHALL HAVE EXPANSION JOINTS SPACED UNIFORMLY AT A MAXIMUM SPACING OF 80'-0" WITH 1" PREFORMED JOINT FILL EXTENDING THROUGH BARRIER, STEM AND FOOTING. AT EACH EXPANSION JOINT, GALVANIZED 10# NAILS SHALL BE USED TO INSTALL EXPANSION MATERIAL.
 - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL. LONGITUDINAL REINFORCING SHALL NOT EXTEND THROUGH EXPANSION JOINTS. STEM LONGITUDINAL REINFORCING SHALL NOT EXTEND THROUGH CONTRACTION JOINTS. LONGITUDINAL REINFORCING SHALL BE LAP SPICED 2'-4". LONGITUDINAL FOOTING REINFORCING SHALL BE CONTINUOUS BETWEEN EXPANSION JOINTS. WHEN FOOTING SIZE CHANGES, LONGITUDINAL REINFORCING FOR SMALLER FOOTING SHALL EXTEND 1'-4" MINIMUM INTO LARGER FOOTING.
 - EXPANSION AND CONTRACTION JOINTS IN TYPES 2-S, 2-SA, 2-SB, AND 2-SC SIDE BARRIER SHALL BE WATERPROOFED ON THE BACK SIDE. WATERPROOFING SHALL BE 3-PLY AND EXTEND FROM 1'-0" BELOW FINISH GRADE TO TOP OF FOOTING FOR 1'-6" MIN. EACH SIDE OF JOINT.
 - TYPES 2-S, 2-SA, 2-SB AND 2-SC SIDE BARRIER SHALL BE PAID FOR PER LIN. FT. AS CONCRETE SIDE BARRIER, TYPE 2-S, 2-SA, 2-SB, OR 2-SC. INCLUDE COST OF WATERPROOFING AND ALL INCIDENTALS AS SPECIFIED IN SECTION 621 OF THE STANDARD SPECIFICATIONS IN THE PRICE BID.
 - TYPE 2-S, 2-SA, 2-SB AND 2-SC SIDE BARRIERS ARE DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017. THE BARRIERS INCLUDED IN THE DESIGN HAVE BEEN CERTIFIED BY THE DEPARTMENT TO SATISFY MASH TL-4 REQUIREMENTS FOR PROJECTS IN GEORGIA.
 - SIDE BARRIERS DESIGNED FOR THE FOLLOWING SOIL PROPERTIES:

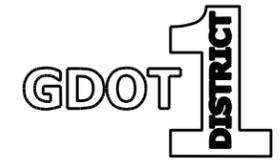
COHESION =	FOUNDATION	BACKFILL
0	0 KSF	0 KSF
9	28°	28°
UNIT WT. =	0.120 KCF	0.120 KCF
 - WIRE FABRIC REINFORCING OR ALTERNATE REBAR SIZE/SPACING MAY BE USED IF DETAILS ARE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO USE.
 - WHERE GUARDRAIL ATTACHMENT IS REQUIRED, USE BARRIER TRANSITION DETAIL. INCLUDE COSTS FOR TRANSITION AND THE FIVE 1" DIA. HOLES, PROPERLY LOCATED FOR CONNECTING THE SPECIAL END SHOE IN THE PRICE BID FOR CONCRETE SIDE BARRIER, TYPE 2-S, 2-SA, 2-SB, OR 2-SC BASED ON STEM HEIGHT REQUIRED.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

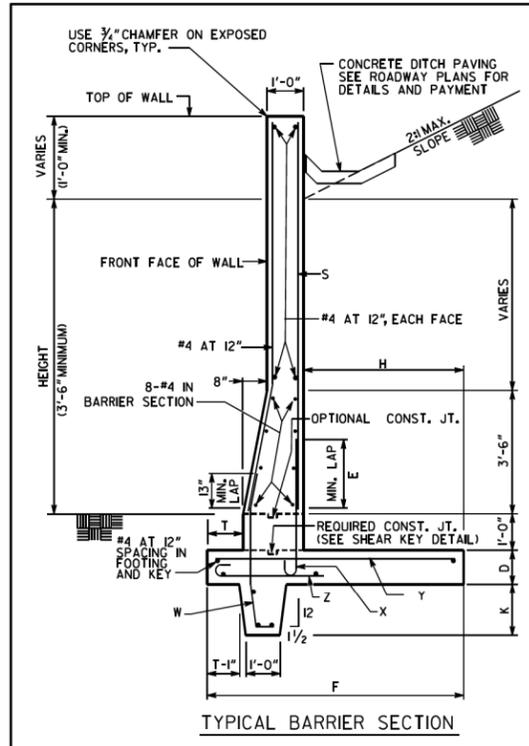
STANDARD
CONCRETE SIDE BARRIER
TYPES 2-S, 2-SA, 2-SB AND 2-SC

NO SCALE MAY 2020

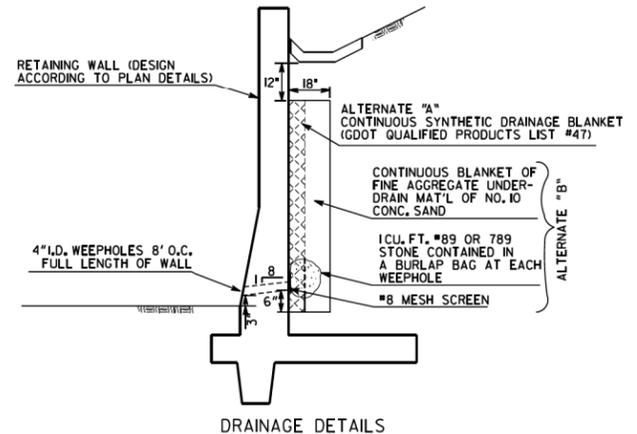
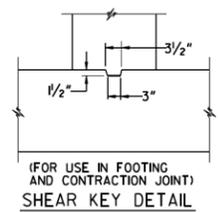
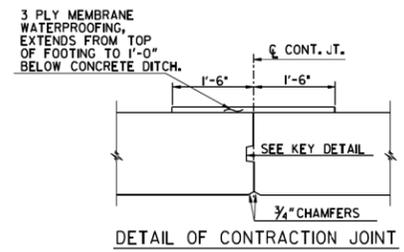
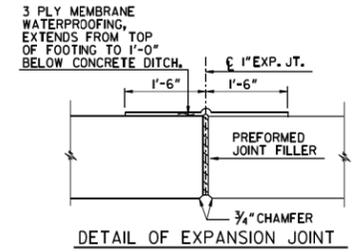
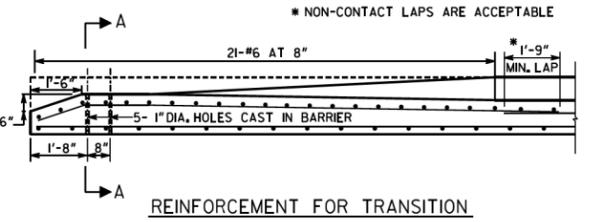
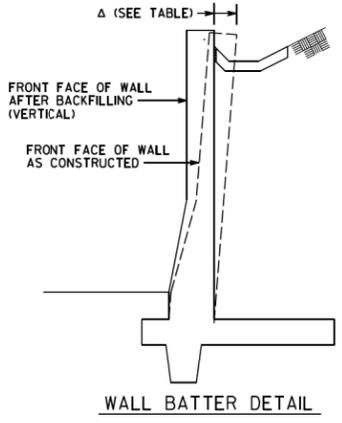
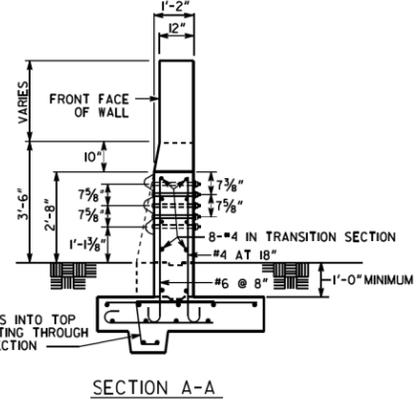
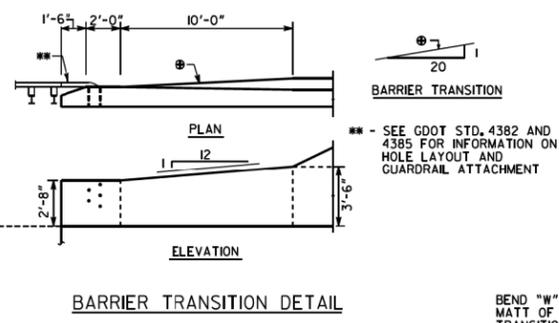
DES. DDF	(SUBMITTED)	<i>J. M. ...</i>	NUMBER
DRW. DDF		STATE DESIGN POLICY ENGINEER	4949B
CHK. CEW	(APPROVED)	<i>Margaret B. ...</i>	
REV. WMD/BAS		CHIEF ENGINEER	



REVISION DATES		GEORGIA STANDARDS	
		US 19 BUS/SR 60 BUS @ OAK GROVE RD LUMPKIN COUNTY	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	41-0020	
CORRECTED:	DATE:		
VERIFIED:	DATE:		



MAX. HEIGHT	WALL DIMENSIONS						REINFORCEMENT						Δ (INCHES)	MAX. FACTORED BEARING PRESSURE	TYPE
	D	E	F	H	T	K	S	W	X	Y	Z				
3'-6"	1'-0"	1'-9"	4'-4"	2'-2"	0'-6"	0'-6"	#4 AT 18"	#4 AT 12"	#4 AT 18"	#5 AT 18"	#4 AT 12"	0	1.4 KSF	6-S	
4'-6"	1'-0"	1'-9"	5'-11"	3'-9"	0'-6"	0'-6"	#4 AT 18"	#4 AT 12"	#4 AT 18"	#6 AT 12"	#4 AT 12"	1/8"	1.6 KSF	6-S	
5'-6"	1'-0"	1'-9"	4'-6"	2'-4"	0'-6"	2'-3"	#4 AT 18"	#4 AT 12"	#4 AT 18"	#5 AT 12"	#4 AT 12"	1/8"	2.4 KSF	6-SA	
6'-6"	1'-0"	1'-9"	6'-4"	4'-2"	0'-6"	2'-3"	#4 AT 18"	#4 AT 12"	#4 AT 18"	#8 AT 12"	#4 AT 12"	3/8"	2.4 KSF	6-SB	
7'-6"	1'-0"	1'-9"	6'-0"	3'-10"	0'-6"	3'-3"	#4 AT 12"	#4 AT 12"	#4 AT 12"	#9 AT 12"	#4 AT 12"	1/4"	3.1 KSF	6-SB	
8'-6"	1'-0"	1'-9"	7'-9"	5'-7"	0'-6"	3'-3"	#4 AT 8"	#4 AT 12"	#4 AT 8"	#9 AT 8"	#4 AT 12"	3/8"	3.1 KSF	6-SB	
9'-6"	1'-3"	2'-2"	7'-9"	4'-9"	1'-4"	4'-3"	#5 AT 10"	#5 AT 12"	#5 AT 10"	#9 AT 10"	#4 AT 12"	1/8"	3.3 KSF	6-SC	
10'-6"	1'-3"	2'-2"	9'-9"	6'-9"	1'-4"	4'-3"	#5 AT 8"	#5 AT 12"	#5 AT 8"	#9 AT 8"	#4 AT 12"	3/8"	3.3 KSF	6-SC	



- GENERAL NOTES:
- SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
 - CONCRETE SHALL BE CLASS "AA". REINFORCING STEEL SHALL BE GRADE 60.
 - DRAINAGE DETAIL ALTERNATES A OR B PER THE DETAIL ON THIS SHEET. ARE REQUIRED FOR TYPES 6-S, 6-SA, 6-SB, AND 6-SC. INCLUDE COST OF MATERIALS AND WORK IN PRICE BID FOR BARRIER.
 - MAINTAIN 2" COVER ON ALL REINFORCING IN STEM AND BARRIER AND 3" COVER IN FOOTING. USE OF FORMLINERS PER THE CONTRACT WILL REQUIRE OVERALL STEM AND BARRIER WIDTHS TO BE INCREASED TO MAINTAIN COVER.
 - EXPOSED CONCRETE SURFACES SHALL RECEIVE A TYPE III FINISH UNLESS A FORMLINER IS REQUIRED PER THE CONTRACT. FORMLINERS SHALL NOT BE APPLIED TO THE BARRIER FACE.
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 - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL. LONGITUDINAL REINFORCING SHALL NOT EXTEND THROUGH EXPANSION JOINTS. STEM LONGITUDINAL REINFORCING SHALL NOT EXTEND THROUGH CONTRACTION JOINTS. LONGITUDINAL REINFORCING SHALL BE LAP SPLICED 2'-4". LONGITUDINAL FOOTING REINFORCING SHALL BE CONTINUOUS BETWEEN EXPANSION JOINTS. WHEN FOOTING SIZE CHANGES, LONGITUDINAL REINFORCING FOR SMALLER FOOTING SHALL EXTEND 1'-9" MINIMUM INTO LARGER FOOTING.
 - EXPANSION AND CONTRACTION JOINTS IN TYPES 6-S, 6-SA, 6-SB, AND 6-SC SIDE BARRIER SHALL BE WATERPROOFED ON THE BACK SIDE. WATERPROOFING SHALL BE 3-PLY AND EXTEND FROM 1'-0" BELOW CONCRETE DITCH TO TOP OF FOOTING FOR 1'-6" MIN. EACH SIDE OF JOINT.
 - TYPES 6-S, 6-SA, 6-SB AND 6-SC SIDE BARRIER SHALL BE PAID FOR PER LIN. FT. AS CONCRETE SIDE BARRIER, TYPE 6-S, 6-SA, 6-SB, OR 6-SC. INCLUDE COST OF WATERPROOFING AND ALL INCIDENTALS AS SPECIFIED IN SECTION 621 OF THE STANDARD SPECIFICATIONS IN THE PRICE BID.
 - TYPE 6-S, 6-SA, 6-SB AND 6-SC SIDE BARRIERS ARE DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017. THE BARRIER DETAILS INCLUDED IN THE DESIGN HAVE BEEN CERTIFIED BY THE DEPARTMENT TO SATISFY MASH TL-4 REQUIREMENTS FOR PROJECTS IN GEORGIA.
 - SIDE BARRIER DESIGN FOR THE FOLLOWING SOIL PROPERTIES:

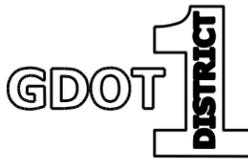
COHESION =	FOUNDATION	BACKFILL
0	0 KSF	0 KSF
8	28	28
UNIT WT. =	0.120 KCF	0.120 KCF
 - WIRE FABRIC REINFORCING OR ALTERNATE REBAR SIZE/SPACING MAY BE USED IF DETAILS ARE SUBMITTED TO AND APPROVED BY THE ENGINEER PRIOR TO USE.
 - AT CONTRACTOR'S OPTION, SIDES OF KEY MAY BE VERTICAL. MAINTAIN WIDTH SHOWN AT TOP OF KEY.
 - WHERE GUARDRAIL ATTACHMENT IS REQUIRED, USE BARRIER TRANSITION DETAIL. INCLUDE COSTS FOR TRANSITION AND THE FIVE 1" DIA. HOLES, PROPERLY LOCATED FOR CONNECTING THE SPECIAL END SHOE IN THE PRICE BID FOR CONCRETE SIDE BARRIER, TYPE 6-S, 6-SA, 6-SB, OR 6-SC BASED ON STEM HEIGHT REQUIRED.
 - WHERE GUARDRAIL ATTACHMENT IS REQUIRED, RETAINED SOIL SHALL BE GRADED SO AS TO EXPOSE THE GUARDRAIL ATTACHMENT HARDWARE ON THE BACK OF THE BARRIER TRANSITION.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE SIDE BARRIER
TYPES 6-S, 6-SA, 6-SB AND 6-SC

NO SCALE MAY 2020

DES. CEW	(SUBMITTED)	<i>R. M. ...</i>	NUMBER
DRW. DDF		STATE DESIGN POLICY ENGINEER	4949C
CHK. DDF	(APPROVED)	<i>Margaret B. ...</i>	
REV. WMD/BAS		CHIEF ENGINEER	



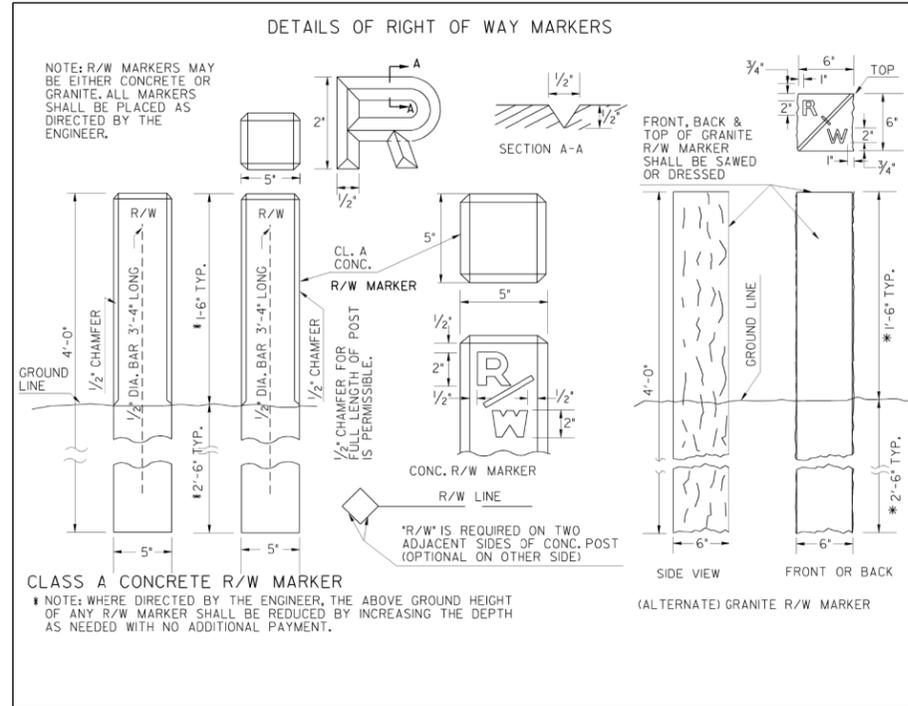
REVISION DATES

GEORGIA STANDARDS
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	41-0021
CORRECTED:	DATE:	
VERIFIED:	DATE:	

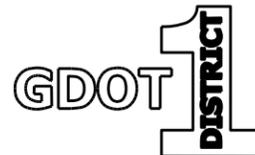
10/3/2006 10:40:43 AM \\6007-DSM1\GPLOT\DCP\go-11ff-avipuf.gcf_gowens M:\GARY\Revised_9003\9003.drf 00-R06

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



REDRAWN TO MATCH METRIC 4-10-06		GA. STD. 9003		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA		
G.L.D.	G.J.P.	R.M.J.	R.M.J.	STANDARD DETAILS OF MARKERS FEDERAL AID AND STATE RIGHT OF WAY MARKERS		
DES.	DRW.	TRA.	CHK.			
NO SCALE	REV. & REDR. DEC., 1981		NUMBER 9003			
(SUBMITTED: <i>[Signature]</i>) STATE ROAD & AIRPORT DESIGN ENGINEER		(APPROVED: <i>[Signature]</i>) CHIEF ENGINEER				

10/3/2006 10:40:43 AM \\6007-DSM1\GPLOT\DCP\go-11ff-avipuf.gcf_gowens M:\GARY\Revised_9003\9003.drf

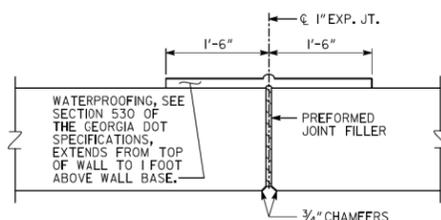


REVISION DATES

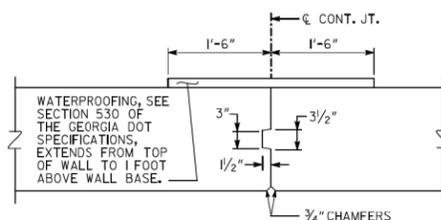
GEORGIA STANDARDS
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	41-0022
CORRECTED:	DATE:	
VERIFIED:	DATE:	

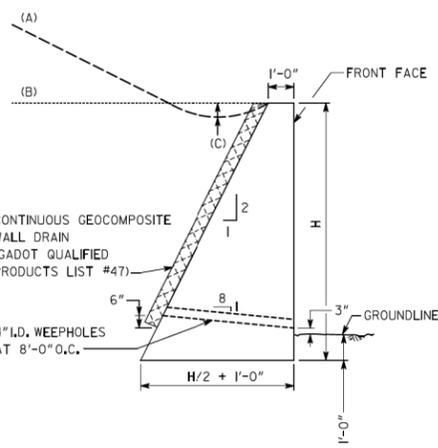
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			



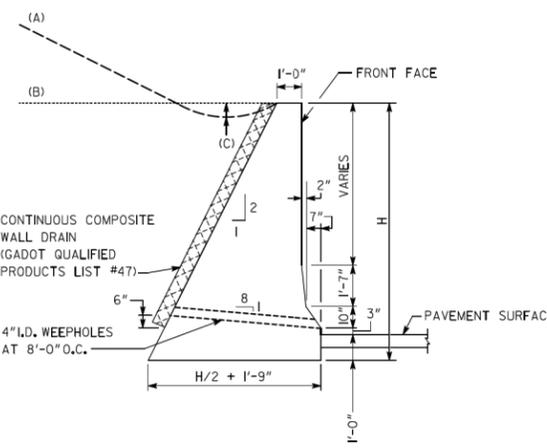
DETAIL OF EXPANSION JOINT
SEE GENERAL NOTE #3



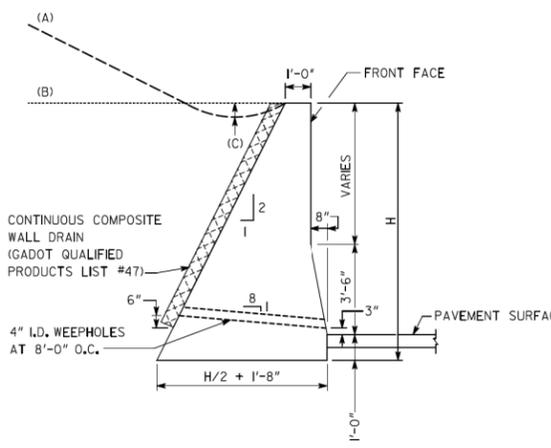
DETAIL OF CONTRACTION JOINT
SEE GENERAL NOTE #3



TYPICAL SECTION A



TYPICAL SECTION B
(NEW JERSEY BARRIER FACE)



TYPICAL SECTION C
(SINGLE SLOPE BARRIER FACE)

MAXIMUM "H"*			
BACKSLOPE	TYP. SECTION A	TYP. SECTION B **	TYP. SECTION C **
FLAT	8'-6"	10'-0"	10'-0"
SLOPE TO 4:1	6'-3"	7'-0"	7'-0"
SLOPE TO 2:1	4'-6"	4'-9"	4'-9"

* GREATER "H" PERMITTED IF APPROVED BY BRIDGE DESIGN.
** TYPICAL SECTION B SHALL HAVE A MINIMUM H OF 3'-8"
TYPICAL SECTION C SHALL HAVE A MINIMUM H OF 4'-6"

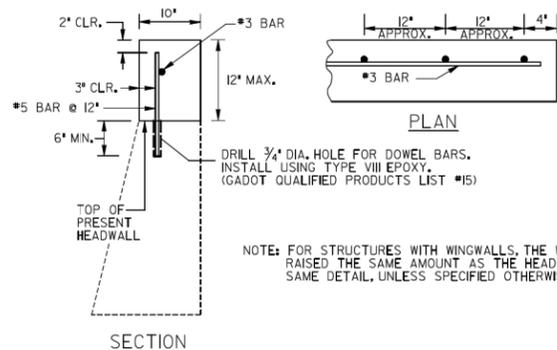
GENERAL NOTES:

- GRAVITY WALLS SHALL NOT BE USED WHEN HORIZONTAL DISTANCE FROM EDGE OF TRAVEL WAY TO FRONT FACE OF WALL IS LESS THAN $(H + 1'0")$.
- GRAVITY WALLS DESIGNED FOR THE FOLLOWING SOIL PROPERTIES:

	FOUNDATION	BACKFILL
COHESION =	0 PSF	0 PSF
ϕ =	28°	28°
UNIT WEIGHT =	120 PCF	120 PCF
- EXPANSION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 90'-0" AND EXTEND THROUGH THE WALL. CONTRACTION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING OF 30'-0".
- GRAVITY WALLS WITH A VERTICAL FRONT FACE SHALL BE PAID FOR AS "CLASS B CONCRETE OR MORTAR RUBBLE MASONRY, RETAINING WALL". GRAVITY WALLS WITH A BARRIER FRONT FACE SHALL BE PAID FOR AS "CLASS A CONCRETE, RETAINING WALL". WATERPROOFING, JOINT FILLER, WALL DRAIN, AND OTHER INCIDENTAL ITEMS SHALL BE INCLUDED IN OVERALL BID SUBMITTED.

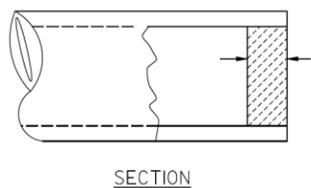
- A CONCRETE DITCH DETAIL FOR THE TOP OF THE WALL SHOULD BE INCLUDED IN THE ROADWAY PLANS WHEN WATER IS FLOWING TOWARDS THE BACK OF THE WALL. SEE CONSTRUCTION DETAIL D-49.
- FINISH EXPOSED SURFACES OF THE WALL WITH A TYPE III FINISH.
- APPLY GRAFFITI PROOF COATING AS PER SECTIONS 500 AND 838 OF THE GEORGIA DOT SPECIFICATIONS.
- ALL NECESSARY FENCE AND HANDRAIL SHOULD BE INCLUDED IN THE ROADWAY PLANS WHEN APPROPRIATE.
- GRAVITY WALL TYPICAL SECTIONS A, B, AND C HAVE BEEN DESIGNED PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, 2014.

DETAIL FOR RAISING HEADWALL



NOTE: FOR STRUCTURES WITH WINGWALLS, THE WINGS SHALL BE RAISED THE SAME AMOUNT AS THE HEADWALL, USING THIS SAME DETAIL, UNLESS SPECIFIED OTHERWISE.

TYPICAL PIPE PLUG



NOTE: PLAN PAY QUANTITIES ARE TO REFLECT PIPE PLUGS AS CU. YDS. OF CL. B CONCRETE. ON CONSTRUCTION PLUGS MAY BE BUILT WITH BRICK MASONRY, MORTAR RUBBLE MASONRY, CL. A CONC., OR CL. B CONC. WITH NO ADJUSTMENT IN PAYMENT MADE FOR ALTERNATES.

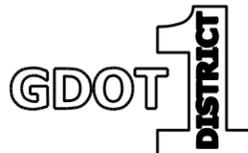
D	T (MIN)	PIPE PLUG (CU. YDS.)
12"	8"	0.0194
15"	8"	0.0303
18"	8"	0.0436
24"	8"	0.0776
30"	8"	0.1212
36"	8"	0.1745
42"	8"	0.2376
48"	8"	0.3103
54"	12"	0.5890
60"	12"	0.7272
66"	12"	0.8799
72"	12"	1.0472

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
STANDARD GRAVITY WALL TYPICAL SECTIONS, RAISING HEADWALL, AND TYPICAL PIPE PLUG	
NO SCALE:	REV. & REDR. SEPT. 2016
REV. & C.E.W. (SUBMITTED):	NUMBER 9031L
REDR.:	STATE ROAD & AIRPORT DESIGN ENGR.
CHK. D.D.E. (APPROVED):	STATE HIGHWAY ENGINEER
SHEET 1 OF 2	

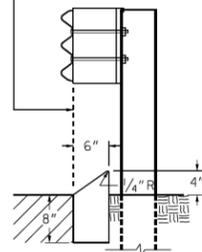
REVISION DATES

GEORGIA STANDARDS
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	41-0023



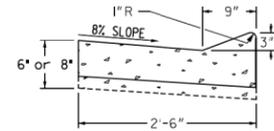
FACE OF CURB MUST ALIGN WITH BACK EDGE OF GUARDRAIL AND THE FACE OF THE OFFSET BLOCK.



TYPE 8

TYPE 8 HEADER CURB IS USED IN CONJUNCTION WITH GUARDRAIL CONNECTIONS TO CONCRETE BARRIER AS NOTED ON GA. STD. 4382.

RAISED EDGE WITH CONCRETE GUTTER

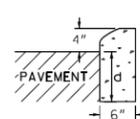


RAISED EDGE TO BE CONSTRUCTED WITH SAME CONCRETE MIX AS THE GUTTER AND SHALL BE FORMED MONOLITHIC WITH GUTTER. JOINTS IN RAISED EDGE SHALL MATCH THOSE IN THE GUTTER.

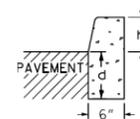
CURB TYPE	h	d
1	4"	6" min.
2	6"	8" min.
3	8"	10" min.
4	10"	12" min.
6	6"	7" min.
7	6"	8" min.
9	4"	8" min.

THE DIMENSION d MAY BE INCREASED AT CONTRACTOR'S OPTION SO BOTTOM OF HEADER CURB WILL ALIGN WITH BOTTOM OF PAVEMENT TYPICAL SECTION.

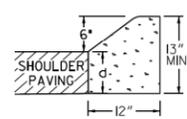
CONCRETE HEADER CURBS



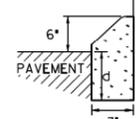
TYPE 1



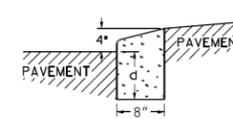
TYPE 2, 3 OR 4



TYPE 6



TYPE 7

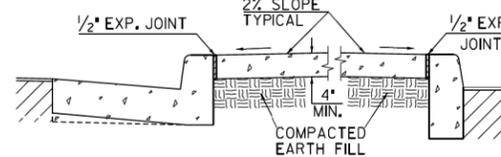


TYPE 9
TRUCK APRON
IN ROUNDABOUTS

NOTE: IF CONCRETE MEDIAN INTERCEPTS PEDESTRIAN CROSSWALKS, WHEELCHAIR RAMPS (CONSTRUCTION DETAIL A-3 AND A-4) WILL BE REQUIRED.

CONCRETE MEDIAN (Between Curbs)

NOTE: CURB TYPES SHOWN ARE TYPICAL. OTHER TYPES MAY BE SPECIFIED.

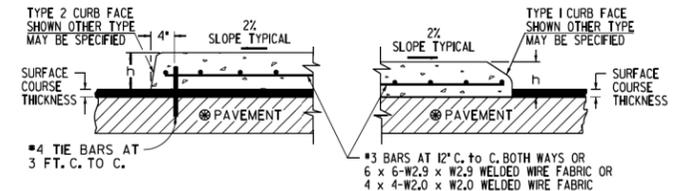


NOTE: WIDTH OF CONCRETE MEDIAN WILL BE AS SHOWN IN PLANS

CONCRETE MEDIANS (Integral)

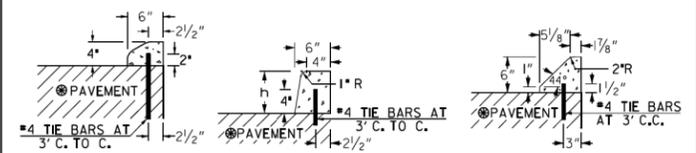
-WITH TIE BARS-

-WITHOUT TIE BARS-



NOTE: IF FINAL SURFACE COURSE IS PRESENT OR MUST BE INSTALLED BEFORE THE CONCRETE MEDIAN CAN BE INSTALLED, THEN DOWELED IN CONCRETE MEDIAN IS REQUIRED.

CONCRETE DOWELED INTEGRAL CURBS

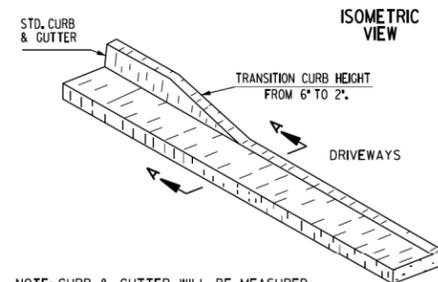


- NOTE: 1. CONCRETE CURB CAN BE INSTALLED AFTER INITIAL SET AS LONG AS THE BARS ARE DRILLED INTO UNDERLYING CONCRETE PAVEMENT.
- 2. CONCRETE CURB CAN BE INSTALLED BEFORE INITIAL SET WITH DOWELS THAT ARE DRIVEN INTO UNDERLYING CONCRETE PAVEMENT.
- 3. JOINTS IN CURB AND CONCRETE MEDIAN WILL MATCH THOSE IN THE CONCRETE PAVEMENT.
- 4. ALL TYPES OF CONCRETE CURB CAN BE PLACED ON ASPHALT PAVEMENTS WHERE THE BARS MAY BE EITHER DRIVEN OR DRILLED INTO THE UNDERLYING PAVEMENT. CONTRACTION JOINTS SHALL BE CONSTRUCTED IN CURB OR CONCRETE MEDIAN AT 20 FT. SPACING.

MINIMUM TIE BAR LENGTHS (FOR CONC. DOWELED CURBS OR CONC. MEDIAN)		
CURB TYPE	P.C. CONC. PAV.	ASPHALT PAV.
1	6"	8"
2, 3 or 4	8"	12"
7	6"	8"
9	6"	8"

NOTE: TIE BARS FOR DOWELED CURBS MAY BE UNCOATED PLAN OR DEFORMED BILLET-STEEL BARS (GRADE 40) AS USED FOR CONCRETE REINFORCEMENT. (AASHTO M-30)

DETAILS OF RECESSED CURB FOR DRIVEWAYS



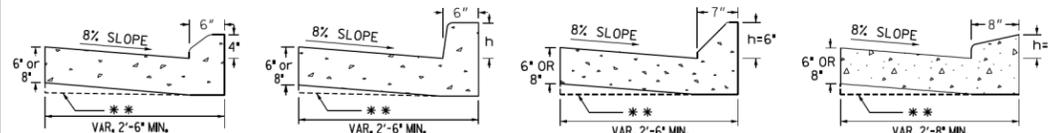
NOTE: CURB & GUTTER WILL BE MEASURED FOR PAYMENT THRU THE DRIVE



SECTIONAL VIEW
SECTION A-A

(SEE SEPARATE CONSTRUCTION DETAILS FOR DRIVEWAYS)

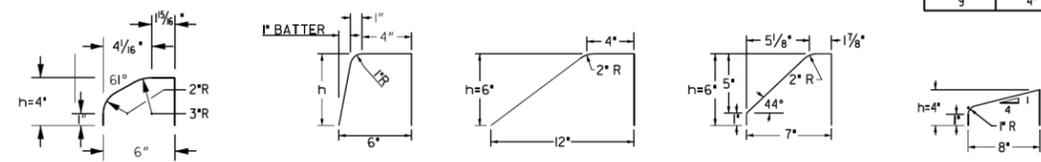
CONCRETE CURB & GUTTER



TYPE 1 TYPE 2, 3 OR 4 TYPE 7 TYPE 9

** AT CONTRACTOR'S OPTION THE GUTTER THICKNESS MAY BE INCREASED AT EDGE OF PAVEMENT TO MAKE BOTTOM OF GUTTER PARALLEL WITH PAVING OF BASE COURSE, BUT THE GUTTER THICKNESS MUST NOT BE LESS THAN THE SPECIFIED 6" OR 8" AT ANY POINT.

CURB FACE DESIGN



TYPE 1 TYPE 2, 3 OR 4 TYPE 6 TYPE 7 TYPE 9

TYPE	h
1	4"
2	6"
3	8"
4	10"
6	6"
7	8"
9	4"

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE CURB & GUTTER
CONCRETE CURBS, CONCRETE MEDIANS

NOT TO SCALE OCT. 2011

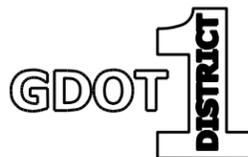
DES. (SUBMITTED) *[Signature]*
STATE DESIGN POLICY ENGINEER
TRA. (APPROVED) *[Signature]*
Dwight M. Run
CHIEF ENGINEER

NUMBER
9032B

REVISION DATES

GEORGIA STANDARDS
US 19 BUS/SR 60 BUS @ OAK GROVE RD
LUMPKIN COUNTY

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	41-0024
CORRECTED:	DATE:	
VERIFIED:	DATE:	



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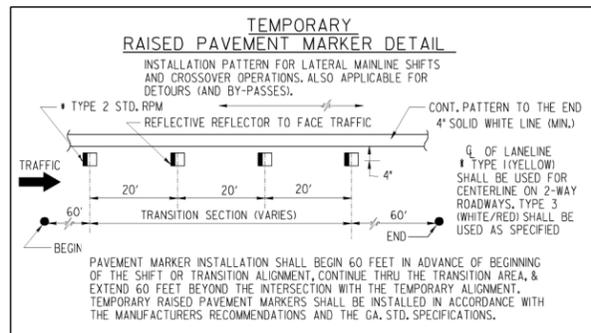
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

GENERAL NOTES :

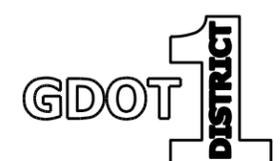
- ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS, AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
- ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
- ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1 FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
- WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMP OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMP/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SUFFICIENT TO RETURN TO OPERATIONAL STATUS.
- FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6) INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
- SIGN LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED TO MEET FIELD CONDITIONS BUT MUST BE WITHIN THE LIMITATIONS SET FORTH IN THE MUTCD.
- A PORTABLE SELF-SUSTAINED SEQUENTIAL OR FLASHING ARROW SIGN SHALL BE USED AT THE BEGINNING OF EACH LANE CLOSURE ON MULTI-LANE HIGHWAYS. ARROW PANELS SHALL NOT BE USED ON TWO-LANE TWO-WAY HIGHWAYS EXCEPT IN CAUTION MODE.
- WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERIM SIGNS THAT ARE PERMANENTLY MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
- PROJECT SIGNS W20-1, G20-1 & G20-2 FOR THIS PROJECT SHALL BE COORDINATED WITH ADJACENT CONSTRUCTION PROJECTS. ONLY ONE SET OF SIGNS IS REQUIRED IN EACH DIRECTION FOR THE TOTAL LENGTH OF ALL PROJECTS- AT THE BEGINNING OF THE FIRST PROJECT AND AT THE ENDING OF THE LAST PROJECT. ADVANCE CONSTRUCTION SIGNS ARE NOT REQUIRED ON INTERMEDIATE PROJECTS, UNLESS CONSTRUCTION ON THE ADJACENT PROJECTS IS COMPLETED BEFOREHAND, THEN PROJECT CONSTRUCTION SIGNS WILL BE ADDED AS NECESSARY.
- ALL THE COST OF THE MATERIALS, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE PRICE BID FOR TRAFFIC CONTROL SECTION 150, LUMP SUM, WHEN SHOWN AS A PAYMENT ITEM IN THE PROPOSAL. OTHERWISE, ALL THE COST WILL BE INCLUDED IN THE OVER-ALL BID SUBMITTED, EXCEPT ON CERTAIN PROJECTS SOME ITEMS MAY BE PAID FOR SEPARATELY BY THE UNIT WHEN SPECIFIED ON THE PLANS AND IN THE PROPOSAL.
- FOR FREEWAY CONSTRUCTION THE CONTRACTOR SHALL ARRANGE HIS WORK SO THAT THERE IS AN EXIT GORE SIGN AND AN EXIT DIRECTION SIGN IN PLACE FOR ALL EXIT RAMP AT ALL TIMES.
- ALL CROSSROADS, SIDEROADS, RAMP OR OTHER ENTRANCES TO MAINLINE CONSTRUCTION SHALL REQUIRE W20-1 SIGNS LOCATED AS SHOWN IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- MARKINGS AND/OR SIGNS IN CONFLICT WITH INTERIM TRAFFIC CONTROL SHALL BE REMOVED, RELOCATED OR COVERED; APPLICABLE EXISTING AND INTERIM MARKINGS AND/OR SIGNING SHALL BE MAINTAINED PER SECTION 150.
- ANY CHANNELIZING DEVICES (DRUMS OR BARRICADES) IN CONFLICT WITH CONCRETE BARRIERS SHALL BE OMITTED.
- CONTRACTOR SHALL PROVIDE THE NECESSARY TRAFFIC CONTROL DURING THE TIE-IN OPERATION.
- THE TRAFFIC CONTROL DEVICES SHOWN FOR ANY STAGE CONSTRUCTION SHALL REMAIN IN PLACE AND BE UTILIZED SO LONG AS NECESSARY FOR THE FOLLOWING STAGES AND SHALL BE REMOVED IMMEDIATELY WHEN NO LONGER REQUIRED. THE DEVICES MAY OR MAY NOT BE SHOWN ON THE PLANS FOR THESE FOLLOWING STAGES. REFER TO THE PLAN SHEET FOR THE INITIAL STAGE FOR THESE TRAFFIC CONTROLS.
- EXISTING GUIDE SIGNS SHALL REMAIN IN PLACE SO LONG AS THEY DO NOT CONFLICT WITH THE CONSTRUCTION OF THIS PROJECT. WHEN IN CONFLICT, THEY SHALL BE RELOCATED ON TEMPORARY POSTS AT THE LOCATION AS DIRECTED BY THE ENGINEER. ANY DISTANCE SHOWN ON THE SIGN SHALL BE ADJUSTED ACCORDINGLY. IF THE SIGNS CANNOT BE RELOCATED, THEN THE SIGN SHALL BE REMOVED AND STORED AT A PLACE DESIGNATED BY THE ENGINEER. IF NEITHER OF THE ABOVE CAN BE DONE, THEN THE CONTRACTOR SHALL PROVIDE INTERIM GUIDE SIGNS AS COVERED IN SECTION 150.
- (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINI, AT INTERVALS NOT TO EXCEED 1 MILE AND IMMEDIATELY PAST EACH CROSSROAD.
(b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION, THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK UP, TRANSPORT, AND ERECT. THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.

STANDARD LEGEND

- STRIPED DRUM
- ▨ TYPE III BARRICADES
- × SPECIAL BARRICADE WITH BI-DIRECTIONAL, TYPE 'C' STEADY BURNING LIGHT OR HIGHWAY SIGN AS SPECIFIED (SEE DETAIL)
- ⋮ SEQUENTIAL OR FLASHING ARROW
- ▭ PORTABLE CHANGEABLE MESSAGE SIGN
- ⊥ PERMANENT TYPE POST MOUNTED SIGN
- ⊕ TEMPORARY POST MOUNTED SIGN
- Ⓚ PORTABLE MOUNTED SIGN - FLAGS NOT REQUIRED
- ▨ WORK AREA
- ▲ TRAFFIC CONE - 28" MIN. - (DAYTIME USE ONLY)
- ⊠ FLAGGER WITH STOP-SLOW PADDLE
- ⊕ TRAFFIC IMPACT ATTENUATOR (CRASH CUSHION)
- TYPE I CLEAR (WHITE) DELINEATOR - SINGLE FACE
- TYPE I YELLOW DELINEATOR - SINGLE FACE
- TYPE I CLEAR (WHITE) DELINEATOR DOUBLE FACE
- TYPE I YELLOW DELINEATOR DOUBLE FACE



3-30-06		4-24-01		DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
REVISED GENERAL NOTES AND LEGEND, DELETED TWO DETAILS.	SPEC. BAR. SH. SPEC.	REVISION	DATE	STANDARD TRAFFIC CONTROL GENERAL NOTES, STANDARD LEGEND, MISCELLANEOUS DETAILS			
NO SCALE				AUG., 1999			
DES. _____	(SUBMITTED) <i>[Signature]</i>	STATE ROAD & AIRPORT DESIGN ENGINEER		NUMBER		9100	
TRA. _____	(APPROVED) <i>[Signature]</i>	CHIEF ENGINEER					
CHK. _____							



REVISION DATES

GEORGIA STANDARDS			
US 19 BUS/SR 60 BUS @ OAK GROVE RD			
LUMPKIN COUNTY			
CHECKED: _____	DATE: _____	DRAWING No.	
BACKCHECKED: _____	DATE: _____	41-0025	
CORRECTED: _____	DATE: _____		
VERIFIED: _____	DATE: _____		

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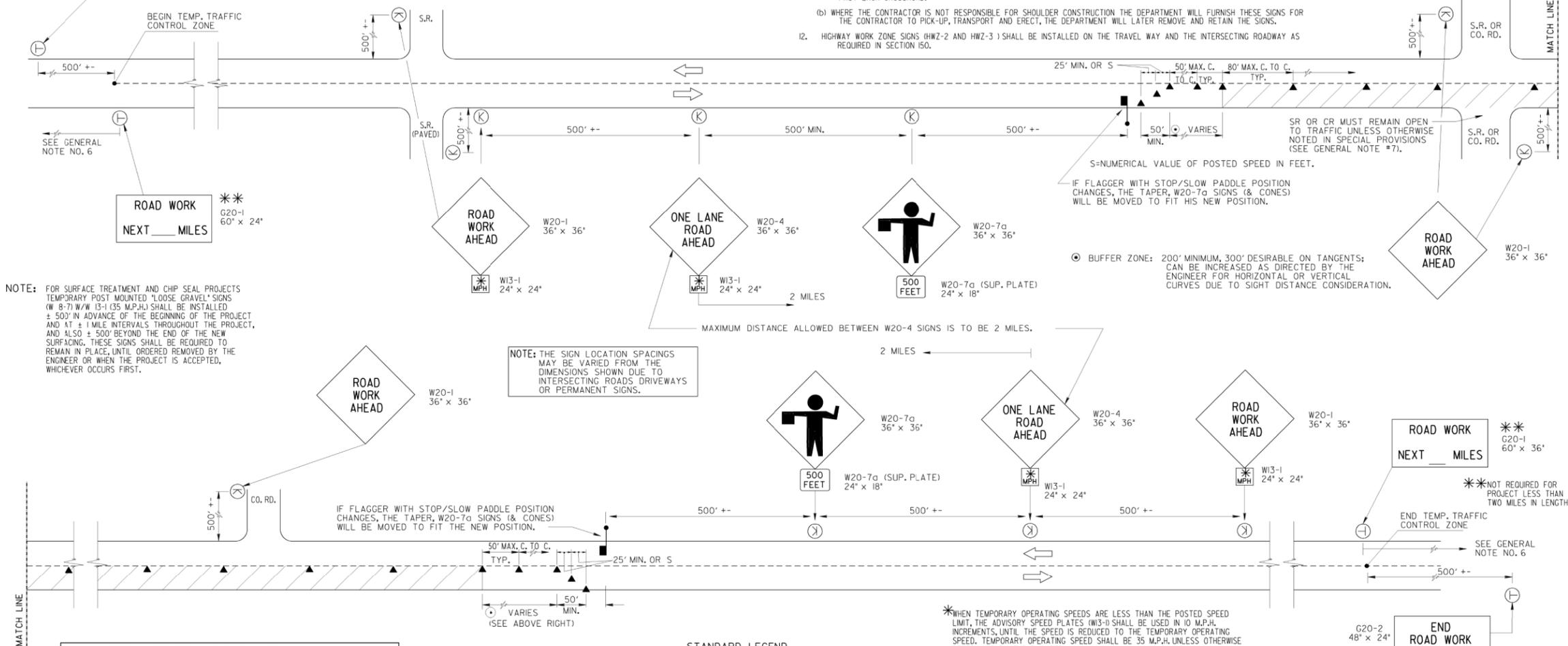
GENERAL NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL BE MADE AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS; THE MUTCD; THE GEORGIA STANDARD SPECIFICATIONS; AND/OR SPECIAL PROVISIONS. (SEE SECTION 150)
- ALL TRAFFIC CONTROL DEVICES SHALL BE AS SHOWN, OR AS DIRECTED BY THE ENGINEER. ADDITIONAL DEVICES MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
- ALL PORTABLE SIGNS SHALL BE MOUNTED A MINIMUM OF 1 FOOT ABOVE THE LEVEL OF PAVEMENT EDGE FOR DIRECTIONAL TRAFFIC OF TWO (2) LANES OR LESS AND A MINIMUM OF 7 FEET FOR DIRECTIONAL OF THREE (3) OR MORE LANES. ALL PORTABLE SIGNS AND SIGN MOUNTING DEVICES UTILIZED IN THE WORK SHALL BE NCHRP 350 COMPLIANT. PORTABLE SIGNS MAY BE USED WHEN THE DURATION OF THE WORK IS LESS THAN 3 DAYS.
- WHEN THE CONSTRUCTION AREA HAS ENTRANCE/EXIT RAMP OR INTERSECTIONS, WORK WILL BE PERFORMED IN SUCH A MANNER TO PERMIT TRAFFIC TO OPERATE WITH THE LEAST AMOUNT OF INCONVENIENCE AS POSSIBLE. ADDITIONAL CHANNELIZATION AND SIGNING SHALL BE INSTALLED, AS REQUIRED, TO ALLOW TRAFFIC TO REMAIN AS OPERATIONAL AS POSSIBLE. WHEN ENTRANCE RAMP/INTERSECTIONS ARE INOPERABLE, FLAGGERS WILL BE UTILIZED TO CONTROL AND PROHIBIT MOVEMENT INTO THE PROJECT AT THAT POINT UNTIL CONSTRUCTION HAS CLEARED THE RESTRICTION SIGNING TO RETURN TO OPERATIONAL STATUS.

- FOR NIGHT TIME OPERATIONS, DRUMS SHALL HAVE, FOR THE LENGTH OF THE TAPER ONLY, A SIX (6) INCH ORANGE REFLECTIZED TOP STRIPE ON EACH DRUM IN THE TAPER AS REQUIRED IN SECTION 150. SPACING OF DEVICES SHALL BE AS SHOWN. DURING DAYLIGHT HOURS, CONES (28" MIN.) MAY BE USED IN ADVANCE OF AND THROUGHOUT WORK AREA.
- SIGNS SHOWN HERE ARE IN ADDITION TO ALL ADVANCE WARNING SIGNS REQUIRED IN SECTION 150.
- FLAGGERS SHALL BE PROVIDED AS NECESSARY TO PROHIBIT WRONG DIRECTION OF TRAFFIC THRU WORK AREAS.
- WHEN NOT IN USE, PORTABLE SIGNS SHALL BE REMOVED FROM THE TRAVELWAY SO THAT THE MESSAGE IS NOT VISIBLE TO THE MOTORIST. INTERM SIGNS THAT ARE PERMANENT MOUNTED SHALL BE COVERED WHEN NOT APPLICABLE. SEE SECTION 150.
- PAYMENT FOR TRAFFIC CONTROL SHALL BE PER SECTION 150.
- PAYMENT MARKINGS FOR TEMPORARY TRAFFIC CONTROL, IF REQUIRED, SHALL BE IN ACCORDANCE WITH SECTION 150 AND AS DIRECTED BY THE ENGINEER OR SHOWN IN THE PLANS.
- (a) ON PROJECTS WITH LOW OR SOFT SHOULDERS, THE CONTRACTOR SHALL ERECT IMMEDIATELY AHEAD OF CONSTRUCTION OPERATIONS "LOW/SOFT SHOULDER" WARNING SIGNS AT THE PROJECT TERMINI, AT INTERVALS NOT TO EXCEED ONE MILE AND IMMEDIATELY PAST EACH CROSSROAD.
- (b) WHERE THE CONTRACTOR IS NOT RESPONSIBLE FOR SHOULDER CONSTRUCTION THE DEPARTMENT WILL FURNISH THESE SIGNS FOR THE CONTRACTOR TO PICK-UP, TRANSPORT AND ERECT. THE DEPARTMENT WILL LATER REMOVE AND RETAIN THE SIGNS.
- HIGHWAY WORK ZONE SIGNS (HWZ-2 AND HWZ-3) SHALL BE INSTALLED ON THE TRAVEL WAY AND THE INTERSECTING ROADWAY AS REQUIRED IN SECTION 150.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

G20-2
48" x 24"
END ROAD WORK



NOTE: FOR SURFACE TREATMENT AND CHIP SEAL PROJECTS TEMPORARY POST MOUNTED 'LOOSE GRAVEL' SIGNS (W 8-7) W/W 13-1 (35 M.P.H.) SHALL BE INSTALLED ± 500' IN ADVANCE OF THE BEGINNING OF THE PROJECT AND AT ± 1 MILE INTERVALS THROUGHOUT THE PROJECT, AND ALSO ± 500' BEYOND THE END OF THE NEW SURFACING. THESE SIGNS SHALL BE REQUIRED TO REMAIN IN PLACE, UNTIL ORDERED REMOVED BY THE ENGINEER OR WHEN THE PROJECT IS ACCEPTED, WHICHEVER OCCURS FIRST.

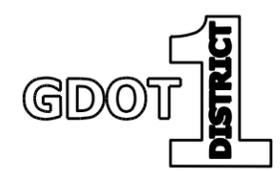
NOTE: THE SIGN LOCATION SPACINGS MAY BE VARIED FROM THE DIMENSIONS SHOWN DUE TO INTERSECTING ROADS, DRIVEWAYS OR PERMANENT SIGNS.

*WHEN TEMPORARY OPERATING SPEEDS ARE LESS THAN THE POSTED SPEED LIMIT, THE ADVISORY SPEED PLATES (W13-1) SHALL BE USED IN 10 M.P.H. INCREMENTS, UNTIL THE SPEED IS REDUCED TO THE TEMPORARY OPERATING SPEED. TEMPORARY OPERATING SPEED SHALL BE 35 M.P.H. UNLESS OTHERWISE DETERMINED BY THE ENGINEER.



- STANDARD LEGEND
- STRIPED DRUM
 - PERMANENT TYPE POST MOUNTED SIGN (7' MOUNT HEIGHT)
 - ⊕ TEMPORARY POST MOUNTED SIGN - (7' MOUNT HEIGHT)
 - Ⓚ PORTABLE MOUNTED SIGN - MINIMUM HEIGHT OF 1 FT. ABOVE THE EDGE OF PAVEMENT; INSTALLED AS PER NCHRP 350 TESTING REQUIREMENTS.
 - ▨ WORK AREA
 - ▲ TRAFFIC CONE - 28" MIN. - DAYTIME USE ONLY
 - ⬇️ FLAGGER WITH STOP-SLOW PADDLE

REMOVED FLAGS AND REV. DATE		DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA	
GENERAL NOTES, REV. SIGN		STANDARD TRAFFIC CONTROL DETAIL FOR LANE CLOSURE ON TWO-LANE HIGHWAY	
G20-2A TO G20-2		NO SCALE REV. & REDR. JULY, 1999	
DES. (SUBMITTED) <i>[Signature]</i>	DRW. STATE ROAD & AIRPORT DESIGN ENGINEER	NUMBER 9102	
TRA. (APPROVED) <i>[Signature]</i>	CHK. CHIEF ENGINEER		



REVISION DATES		GEORGIA STANDARDS	
		US 19 BUS/SR 60 BUS @ OAK GROVE RD LUMPKIN COUNTY	
CHECKED:	DATE:	DRAWING No.	
BACKCHECKED:	DATE:	41-0026	
CORRECTED:	DATE:		
VERIFIED:	DATE:		

STA 35+50.00
N: 1655189.0482
E: 2347639.8015

STA 36+04.49 (P.C. STA)
N: 1655213.3241
E: 2347688.5836

Curve # 3
PI Sta: 37+96.13
N: 1655298.7061
E: 2347860.1570
DELTA: 19°45'57.5" (LT)
D: 05°12'31.35"
T: 191.64
L: 379.48
R: 1100.00
E: 16.57
D.S.: 45 MPH
e = N.C.

ANDERSON RALPH E & PATRICIA A CROW

DUNN BETTY L TRUSTEE

SEE SHEET 60-0003,
60-0004, 60-0006

DE10017 DE10018

DE10016 DE10015

DE70002 REQ'D RW

DE10016

DE70001

R 15' R 15'

D.W. 3 50.00 LT

R 15'

LIMIT OF CONSTRUCTION
OAK GROVE RD
STA 35+50.00

EXIST R/W

35+00

36+00

37+00

POB 35+00.00

P.C. 36+04.49

N63°32'35.4"E

CONST CL

CURVE #3

OAK GROVE RD

CONST CL

P.I. 37+96.13

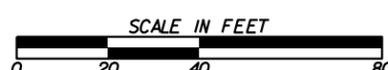
MATCH LINE STA 38+00 - SEE 60-0003

EXIST R/W

EXIST R/W

LIMIT OF R/W ACQUISITION
OAK GROVE RD
STA 37+03.99

HOOVER DENNIS



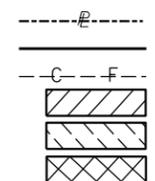
MATCH LINE SEE 60-0003

MATCH LINE SEE 60-0005

DUNN BETTY L TRUSTEE

SEE SHEET 60-0003,
60-0005, 60-0006

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

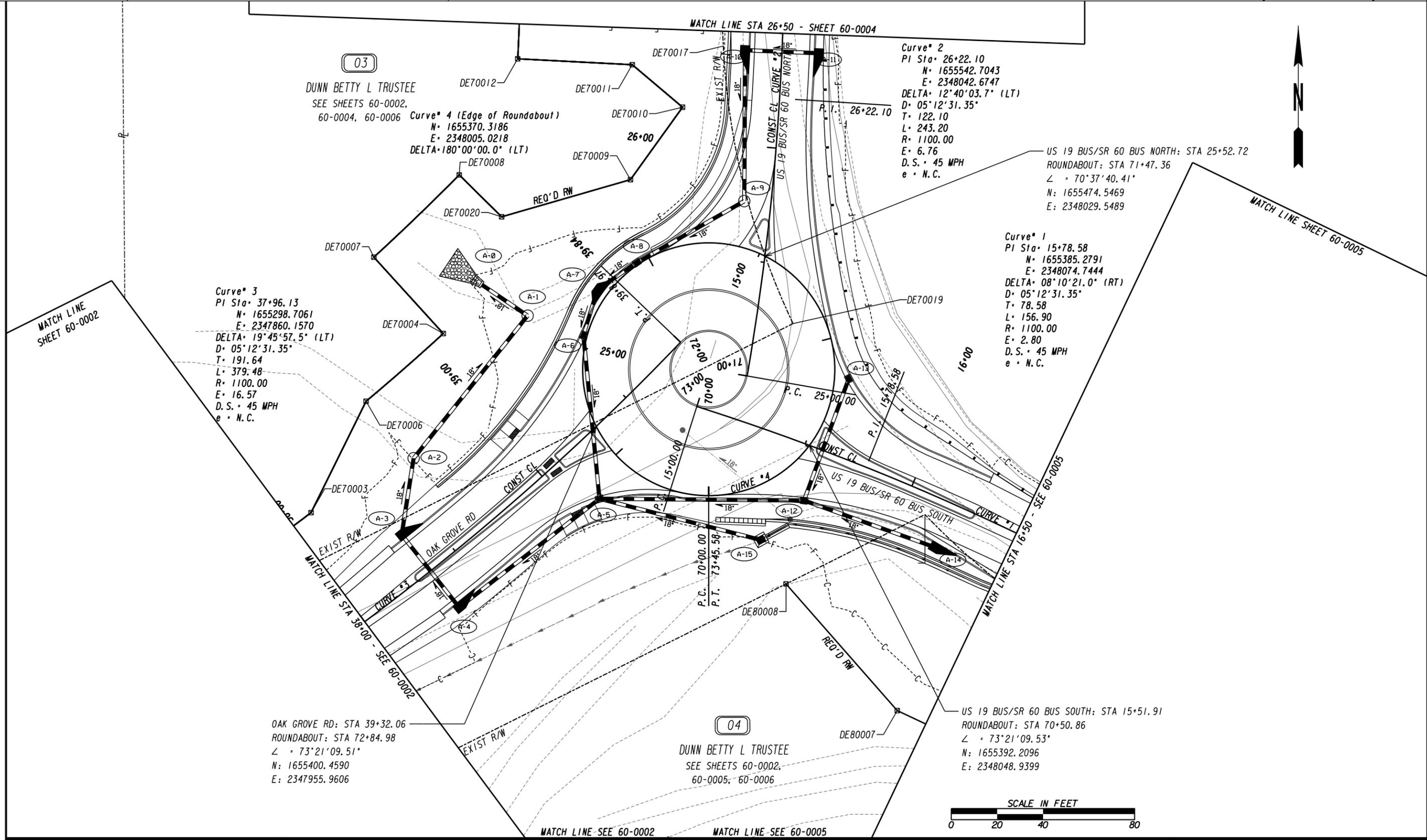


BEGIN LIMIT OF ACCESS.....BLA
END LIMIT OF ACCESS.....ELA
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA

DATE	REVISIONS	DATE	REVISIONS
10/27/20	REM DWEST PAR 1, ADDED DWESMT PAR 3		
01/27/21	REM DWEST PAR 2		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAP
PROJECT NO: N/A
COUNTY: LUMPKIN
LAND LOT NO: 852,853
LAND DISTRICT: 12
GMD 837
DATE 9/21/20 SHEET 2 OF 6

DRAWING No.
60-0002



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

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

DATE	REVISIONS	DATE	REVISIONS
10/27/20	REV REQD R/W PAR 3, REV MATCHLINE 26+50		

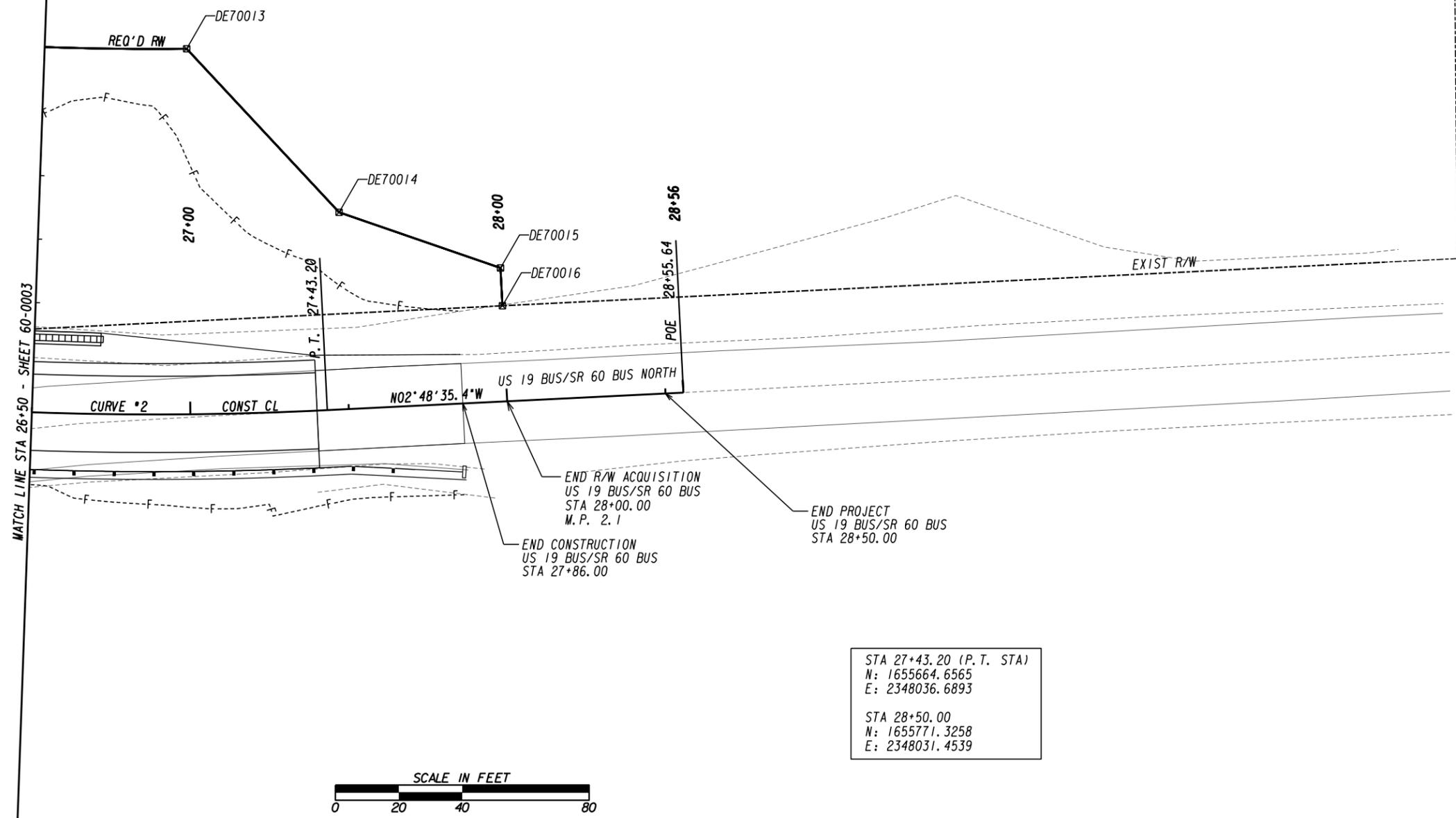
STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
RIGHT OF WAY MAP	
PROJECT NO: N/A	COUNTY: LUMPKIN
LAND LOT NO: 852	LAND DISTRICT: 12
GMD 837	DATE 9/21/20 SHEET 3 OF 6

DRAWING No.
60-0003

Curve* 2
 PI Sta* 26+22.10
 N* 1655542.7043
 E* 2348042.6747
 DELTA* 12°40'03.7" (LT)
 D* 05°12'31.35"
 T* 122.10
 L* 243.20
 R* 1100.00
 E* 6.76
 D.S. * 45 MPH
 e * N.C.

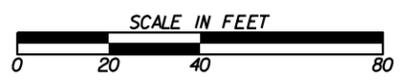
03

DUNN BETTY L TRUSTEE
 SEE SHEETS 60-0002,
 60-0003, 60-0006



STA 27+43.20 (P.T. STA)
 N: 1655664.6565
 E: 2348036.6893

 STA 28+50.00
 N: 1655771.3258
 E: 2348031.4539



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

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

DATE	REVISIONS	DATE	REVISIONS

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAP

PROJECT NO: N/A
 COUNTY: LUMPKIN
 LAND LOT NO: 852
 LAND DISTRICT: 12
 GMD 837
 DATE 9/21/20 SHEET 4 OF 6

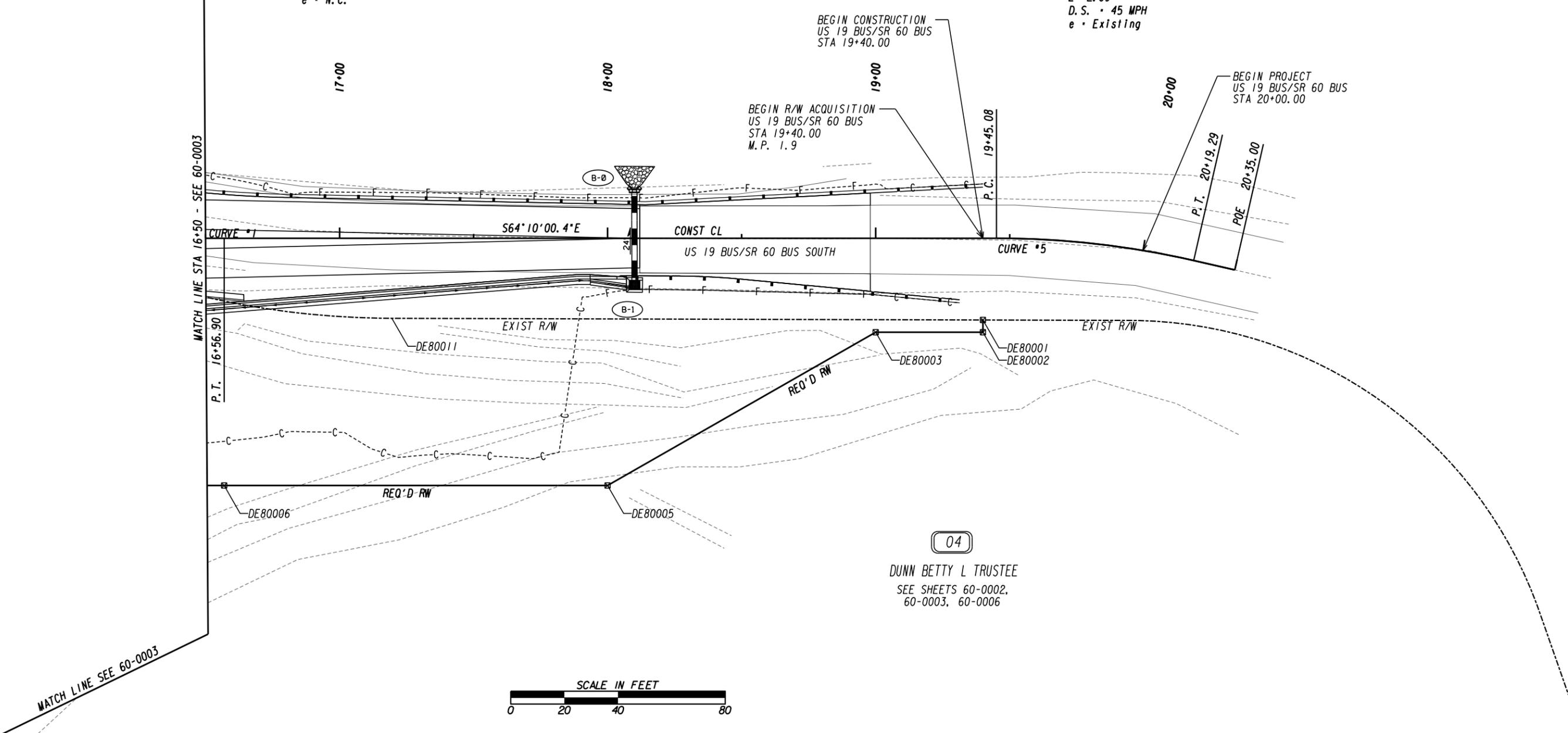
DRAWING No.
60-0004

Curve # 1
PI Sta 15+78.58
N: 1655385.2791
E: 2348074.7444
DELTA: 08°10'21.0" (RT)
D: 05°12'31.35"
T: 78.58
L: 156.90
R: 1100.00
E: 2.80
D.S.: 45 MPH
e: N.C.

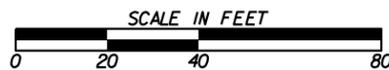
STA 16+56.90 (P.T. STA)
N: 1655351.0361
E: 2348145.4750

STA 19+40.00
N: 1655227.6748
E: 2348400.2830

Curve # 5
PI Sta 19+82.34
N: 1655209.2255
E: 2348438.3907
DELTA: 12°52'17.5" (RT)
D: 17°20'44.25"
T: 37.26
L: 74.21
R: 330.32
E: 2.09
D.S.: 45 MPH
e: Existing



MATCH LINE SEE 60-0003



04
DUNN BETTY L TRUSTEE
SEE SHEETS 60-0002,
60-0003, 60-0006

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

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

DATE	REVISIONS	DATE	REVISIONS
10/27/20	REV REQD RW PAR 4		

STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
RIGHT OF WAY MAP	
PROJECT NO: N/A	COUNTY: LUMPKIN
LAND LOT NO: 852	LAND DISTRICT: 12
GMD 837	DATE 9/21/20 SHEET 5 OF 6
DRAWING No.	60-0005

SEE SHEET 60-0002

DN ESMT - PARCEL 03 REQ'D DRWY. EASM'T. DE003

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE10015	52.00 L	37+62.00	OAK GROVE RD
ARC LENGTH = 22.87			
CHORD BEAR = S 55°57'50.1" W			
LNTH CHORD = 22.87			
RADIUS = 1048.00			
DEGREE = 5°28'01.8"			
DE10016	52.00 L	37+38.00	OAK GROVE RD
DE10017	62.00 L	37+38.00	OAK GROVE RD
DE10018	62.00 L	37+62.00	OAK GROVE RD
DE10015	52.00 L	37+62.00	OAK GROVE RD

SEE SHEET 60-0002, 60-0003, 60-0004

REQD R/W - PARCEL 03 REQ'D R/W DE03

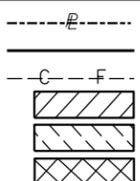
PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE70019	16.15 R	25+25.52	SR 60 BUS NORTH
ARC LENGTH = 324.31			
CHORD BEAR = S 63°29'31.0" W			
DE70001	45.62 L	37+03.99	OAK GROVE RD
LNTH CHORD = 7.46			
RADIUS = 1048.00			
DEGREE = 5°28'01.8"			
DE70002	52.00 L	37+08.05	OAK GROVE RD
ARC LENGTH = 97.13			
CHORD BEAR = N 55°29'38.0" E			
LNTH CHORD = 97.10			
RADIUS = 1048.00			
DEGREE = 5°28'01.8"			
DE70003	52.00 L	38+10.00	OAK GROVE RD
LNTH CHORD = 54.12			
RADIUS = 1048.00			
DEGREE = 5°28'01.8"			
DE70006	75.00 L	38+62.00	OAK GROVE RD
ARC LENGTH = 44.73			
CHORD BEAR = N 48°52'48.3" E			
LNTH CHORD = 44.72			
RADIUS = 1025.00			
DEGREE = 5°35'23.4"			
DE70004	75.00 L	39+10.00	OAK GROVE RD
LNTH CHORD = 45.00			
RADIUS = 980.00			
DEGREE = 5°50'47.4"			
DE70007	120.00 L	39+10.00	OAK GROVE RD
ARC LENGTH = 51.67			
CHORD BEAR = N 46°07'10.3" E			
LNTH CHORD = 51.67			
RADIUS = 980.00			
DEGREE = 5°50'47.4"			
DE70008	120.00 L	39+68.00	OAK GROVE RD
LNTH CHORD = 26.00			
RADIUS = 980.00			
DEGREE = 5°50'47.4"			
DE70020	94.00 L	39+68.00	OAK GROVE RD
LNTH CHORD = 58.48			
RADIUS = 980.00			
DEGREE = 5°50'47.4"			
DE70009	62.00 L	25+80.00	SR 60 BUS NORTH
LNTH CHORD = 38.88			
RADIUS = 980.00			
DEGREE = 5°50'47.4"			
DE70010	42.00 L	26+15.00	SR 60 BUS NORTH
LNTH CHORD = 28.67			
RADIUS = 980.00			
DEGREE = 5°50'47.4"			
DE70011	65.00 L	26+33.00	SR 60 BUS NORTH
LNTH CHORD = 50.00			
RADIUS = 980.00			
DEGREE = 5°50'47.4"			
DE70012	115.00 L	26+33.00	SR 60 BUS NORTH
LNTH CHORD = 115.00			
RADIUS = 980.00			
DEGREE = 5°50'47.4"			
DE70013	115.00 L	27+00.00	SR 60 BUS NORTH
LNTH CHORD = 70.41			
RADIUS = 980.00			
DEGREE = 5°50'47.4"			
DE70014	62.00 L	27+50.00	SR 60 BUS NORTH
LNTH CHORD = 53.85			
RADIUS = 980.00			
DEGREE = 5°50'47.4"			
DE70015	42.00 L	28+00.00	SR 60 BUS NORTH
LNTH CHORD = 11.90			
RADIUS = 980.00			
DEGREE = 5°50'47.4"			
DE70016	30.10 L	28+00.00	SR 60 BUS NORTH
LNTH CHORD = 154.14			
RADIUS = 980.00			
DEGREE = 5°50'47.4"			
DE70017	25.69 L	26+43.39	SR 60 BUS NORTH
LNTH CHORD = 25.69			
RADIUS = 980.00			
DEGREE = 5°50'47.4"			
DE70019	16.15 R	25+25.52	SR 60 BUS NORTH
ARC LENGTH = 125.34			
CHORD BEAR = S 14°08'53.9" E			
LNTH CHORD = 124.52			
RADIUS = 316.51			
DEGREE = 18°06'08.5"			
REQD R/W = 30234.05 SF			
REQD R/W = 0.694 ACRES			
REMAINDER = +/- 3.2 ACRES			

SEE SHEET 60-0002, 60-0003, 60-0005

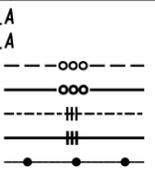
REQD R/W - PARCEL 04 REQ'D R/W DE04

PNT	OFFSET/ DIST	STATION/ BEARING	ALIGNMENT
DE80001	30.42 R	19+40.00	SR 60 BUS SOUTH
LNTH CHORD = 4.58			
RADIUS = 1008.00			
DEGREE = 5°41'02.8"			
DE80002	35.00 R	19+40.00	SR 60 BUS SOUTH
LNTH CHORD = 40.00			
RADIUS = 1008.00			
DEGREE = 5°41'02.8"			
DE80003	35.00 R	19+00.00	SR 60 BUS SOUTH
LNTH CHORD = 115.10			
RADIUS = 1008.00			
DEGREE = 5°41'02.8"			
DE80005	92.00 R	18+00.00	SR 60 BUS SOUTH
LNTH CHORD = 143.10			
RADIUS = 1008.00			
DEGREE = 5°41'02.8"			
DE80006	92.00 R	16+56.90	SR 60 BUS SOUTH
LNTH CHORD = 20.07			
RADIUS = 1008.00			
DEGREE = 5°41'02.8"			
DE80007	92.00 R	16+35.00	SR 60 BUS SOUTH
LNTH CHORD = 73.42			
RADIUS = 1008.00			
DEGREE = 5°41'02.8"			
DE80008	60.00 R	15+64.00	SR 60 BUS SOUTH
LNTH CHORD = 67.66			
RADIUS = 1008.00			
DEGREE = 5°41'02.8"			
DE80009	9.15 R	16+10.10	SR 60 BUS SOUTH
LNTH CHORD = 9.15			
RADIUS = 1008.00			
DEGREE = 5°41'02.8"			
DE80011	29.81 R	17+19.48	SR 60 BUS SOUTH
LNTH CHORD = 220.52			
RADIUS = 1008.00			
DEGREE = 5°41'02.8"			
DE80001	30.42 R	19+40.00	SR 60 BUS SOUTH
REQD R/W = 17332.46 SF			
REQD R/W = 0.398 ACRES			
REMAINDER = +/- 10 ACRES			

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
EXISTING LIMIT OF ACCESS
REQ'D LIMIT OF ACCESS
EXISTING LIMIT OF ACCESS & R/W
REQ'D LIMIT OF ACCESS & R/W
ORANGE BARRIER FENCE
ESA - ENV. SENSITIVE AREA



DATE	REVISIONS	DATE	REVISIONS
10/27/20	REM PAR 1 DNESMT, ADDED PAR 3 DNESMT, REV REQD R/W PARS 3 & 4		
01/27/21	REM PAR 2 DNESMT		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY MAP
PROJECT NO: N/A
COUNTY: LUMPKIN
LAND LOT NO: 852, 853
LAND DISTRICT: 12
GMD 837
DATE 9/21/20 SHEET 6 OF 6

DRAWING No.
60-0006