

INDEX OF SHEETS-CONST.
SEE SHEET IA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2015	1
FED. AID PROJ. NO.		
STATE PROJ. NO.	75951-3597-04	

RUTHERFORD COUNTY

INDUSTRIAL ACCESS ROAD SERVING NISSAN NORTH AMERICA IN MURFREESBORO

CONSTRUCTION

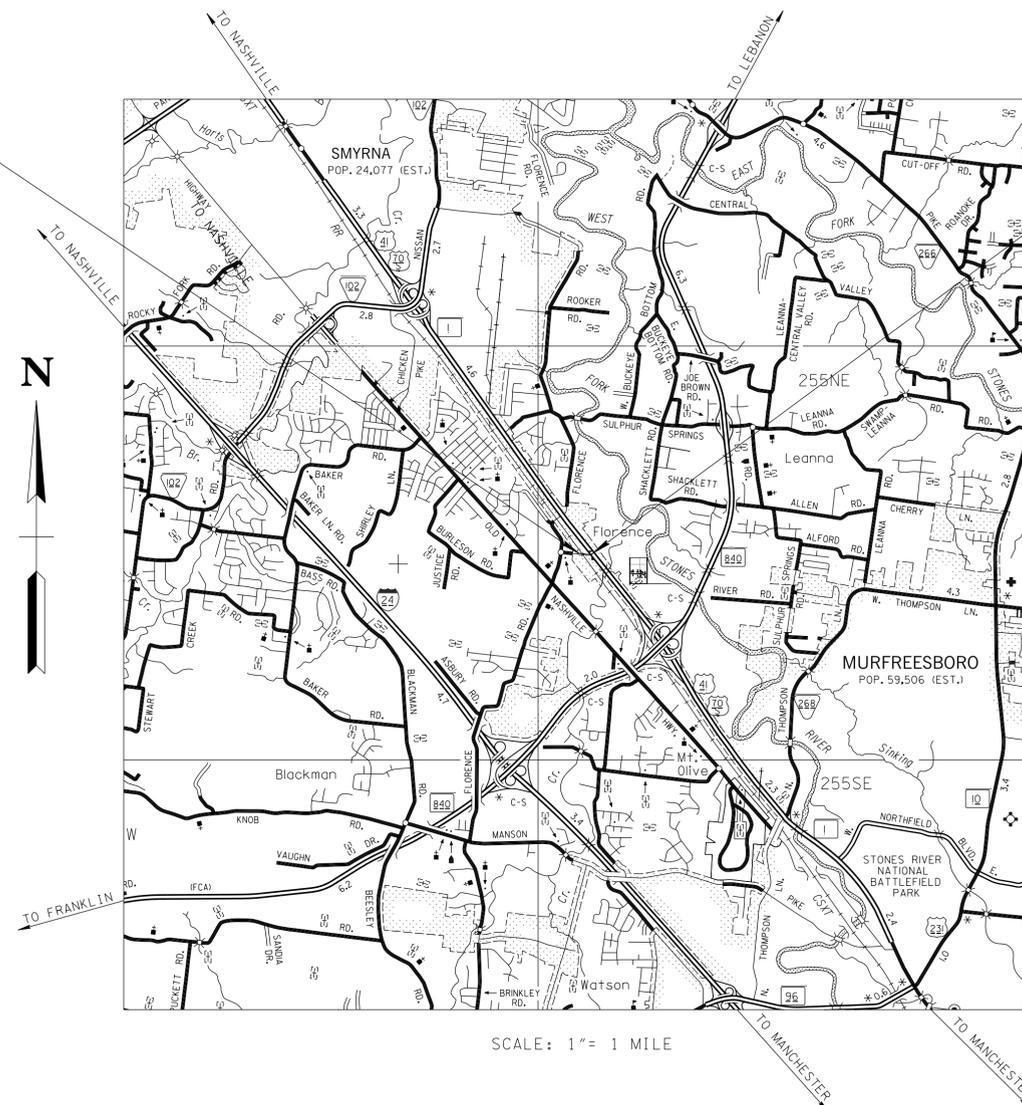
STATE HIGHWAY NO. N.A. F.A.H.S. NO. N.A.



PROJECT LOCATION

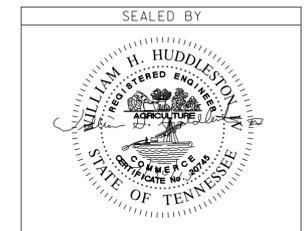
BEGIN PROJECT 75951-3597-04 CONST.
SINGER ROAD
STA. 9+10.00

END PROJECT 75951-3597-04 CONST.
SINGER ROAD
STA. 17+63.20



NO EXCLUSIONS
NO EQUATIONS

TRAFFIC DATA	
ADT (2015)	7,040
ADT (2035)	9,170
DHV (2035)	1,214
D	50 - 50
T (ADT)	8 %
T (DHV)	5 %
V	35 MPH



APPROVED: *Paul D. Degges*
PAUL D. DEGGES, CHIEF ENGINEER

DATE: _____

APPROVED: *John Schroer*
JOHN SCHROER, COMMISSIONER

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT C.E. MANAGER 2 ATAUR RAHMAN
DESIGNED BY HUDDLESTON-STEELE ENGINEERING, INC.
DESIGNER JOHNNIE H. LEONARD III CHECKED BY WILLIAM H. HUDDLESTON IV

P.E. NO. 75951-1597-04

PIN NO. 118494.00

ROADWAY LENGTH 0.162 MILES
BRIDGE LENGTH 0.000 MILES
BOX BRIDGE LENGTH 0.000 MILES
PROJECT LENGTH 0.162 MILES

ORIGINAL SURVEY: 2-5-2014
ADDITIONAL SURVEY: 8-5-2014
ADDITIONAL SURVEY: 8-28-2014

APPROVED: _____
DIVISION ADMINISTRATOR DATE

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	75951-3597-04	1 A

INDEX

DESCRIPTION

DESCRIPTION	SHEET
TITLE SHEET	1
ROADWAY INDEX AND STANDARD DRAWINGS INDEX	1A
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2A
ESTIMATED UTILITIES QUANTITIES	2B
GENERAL NOTES	2C
PROPERTY MAP	3
RIGHT-OF-WAY ACQUISITION TABLE	3A
PRESENT LAYOUT	4
R.O.W. DETAILS	4A
PROPOSED LAYOUT AND PROFILE	4B
PRIVATE DRIVEWAY PROFILES	5
DRAINAGE MAP	6
CULVERT CROSS-SECTION	7
EPSC NOTES & TABULATION	8
CLEARING AND GRUBBING	9
EPSC - PHASE I	10
TRAFFIC CONTROL PLAN	11-11A
SIGNING AND PAVEMENT MARKING PLAN	12
ROADWAY CROSS SECTIONS	13-17
STORM WATER POLLUTION PREVENTION PLAN (SWPPP)	S-1
UTILITIES INDEX, UTILITY OWNERS, AND UTILITY SHEETS	U1-1, U2-1 - U2-4

NOTE:
THERE ARE NO PROJECT COMMITMENT SHEETS INCLUDED WITH THIS SET OF PLANS.

ROADWAY DESIGN STANDARDS

DWG. NO.	REV.	DESCRIPTION
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD01-TS-1	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
D-CB-12LP	08-01-12	LOW PROFILE 32"X32" SQUARE CONCRETE NO. 12 LP CATCH BASIN
RP-NMC-10	07-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
EL-W-2	05-27-01	STANDARD GRAVITY-TYPE RETAINING WALLS

ROADWAY AND PAVEMENT APPUTENANCES

DWG. NO.	REV.	DESCRIPTION
RP-NMC-10	07-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS

CATCH BASINS AND MANHOLES

DWG. NO.	REV.	DESCRIPTION
D-CB-12LP	08-01-12	LOW PROFILE 32"X32" SQUARE CONCRETE NO. 12 LP CATCH BASIN
D-CB-12P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12RA	03-11-14	STANDARD PRECAST 48" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RB	03-11-14	STANDARD PRECAST 60" AND 72" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RC	03-11-14	STANDARD PRECAST 84" THRU 120" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SC	03-11-14	STANDARD 52" X 52" SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-42RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN
D-CB-42S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SC	03-11-14	STANDARD 52" X 52" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 42 CATCH BASIN

TRAFFIC CONTROL APPURTENANCES

DWG. NO.	REV.	DESCRIPTION
T-M-1	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-4	07-24-14	STANDARD INTERSECTION PAVEMENT MARKINGS
T-RR-1	11-01-11	TYPICAL PAVEMENT MARKING AT RAILROAD HIGHWAY GRADE CROSSINGS AND RAILROAD ADVANCE WARNING SIGN
T-RR-2	11-01-11	STANDARD DRAWING FOR RAILROAD AND HIGHWAY CROSSING SIGNAL WITH GATE
T-RR-3	11-01-11	STANDARD DRAWING FOR RAILROAD-HIGHWAY CROSSING SIGNAL

EROSION PREVENTION AND SEDIMENT CONTROL

DWG. NO.	REV.	DESCRIPTION
EC-STR-3B	8-1-12	SILT FENCE
EC-STR-6	8-1-12	ROCK CHECK DAM
EC-STR-11	8-1-12	CULVERT PROTECTION TYPE 1
EC-STR-19	4-1-08	CATCH BASIN PROTECTION
EC-STR-25	8-1-12	TEMPORARY CONSTRUCTION CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-37	6-10-14	SEDIMENT TUBE
EC-STR-39A	8-1-12	CURB INLET PROTECTION TYPE 3 & 4
EL-W-2	05-27-01	STANDARD GRAVITY-TYPE RETAINING WALLS

SAFETY APPURTENANCES AND FENCE

DWG. NO.	REV.	DESCRIPTION
S-BPR-1	06-04-14	BIKE/PEDESTRIAN SAFETY RAIL
S-CZ-1		CLEAR ZONE CRITERIA

DRAINAGE - CULVERTS AND ENDWALLS

DWG. NO.	REV.	DESCRIPTION
D-PB-1	01-02-13	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PE-18A	01-06-15	18" CONCRETE ENDWALL CROSS DRAIN
D-PE-18B	03-01-12	18" CONCRETE ENDWALL CROSS DRAIN



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	75951-3597-04	2

ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
105-01	CONSTRUCTION STAKES, LINES, AND GRADES	LS	1
201-01	CLEARING AND GRUBBING	LS	1
202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1
(1) 203-01	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	3300
203-06	WATER	M.G.	22
(7) 209-05	SEDIMENT REMOVAL	C.Y.	70
(7) 209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	1450
(7) 209-08.07	ROCK CHECK DAM	EACH	2
(7) 209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	1
(7) 209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	3
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	2589
303-01.03	GRANULAR BACKFILL (RETAINING WALLS)	TON	26
(2)(7) 303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	240
(3) 303-10.03	MINERAL AGGREGATE (SIZE 68)	TON	20
307-01.01	ASPHALT CONCRETE MIX (PG64-22)(BPMB-HM) GRADING A	TON	867
307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	474
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	7
402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	28
403-01	BITUMINOUS MATERIAL FOR TACK COAT	TON	2.6
407-20.05	SAW CUTTING ASPHALT PAVEMENT	L.F.	150
411-01.10	ACS MIX (PG64-22) GRADING D	TON	286
(3) 604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	19
604-01.20	BOX TUBE SAFETY RAIL	L.F.	94
607-02.02	15" CONCRETE PIPE CULVERT (CLASS III)	L.F.	267
607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	329
611-07.30	15" ENDWALL (SIDE DRAIN)	EACH	2
611-07.54	18" ENDWALL (CROSS DRAIN) 3:1	EACH	2
611-12.01	CATCH BASINS, TYPE 12, 0'-4' DEPTH	EACH	1
611-42.01	CATCH BASINS, TYPE 42, 0'-4' DEPTH	EACH	2
702-01	CONCRETE CURB	C.Y.	5
702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	24
(4)(7) 709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	160
(2)(7) 709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	60
712-01	TRAFFIC CONTROL	LS	1
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	47
712-05.01	WARNING LIGHTS (TYPE A)	EACH	5
712-05.03	WARNING LIGHTS (TYPE C)	EACH	26
712-06	SIGNS (CONSTRUCTION)	S.F.	371
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	160
712-08.03	ARROW BOARD (TYPE C)	EACH	2
713-16.09	RAILROAD ADVANCE WARNING SIGN AND SUPPORT	EACH	2
713-16.20	SIGNS (R1-1)	EACH	2
713-16.21	SIGNS (R8-8)	EACH	2
713-16.22	SIGNS (W10-1)	EACH	2
716-02.04	PLASTIC PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.	35
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	94
716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	4
716-03.02	PLASTIC WORD PAVEMENT MARKING (RXR)	EACH	2
716-04.03	PLASTIC PAVEMENT MARKING (4" DOTTED LINE)	L.F.	40
716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	0.3
716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4" LINE)	L.M.	0.9
717-01	MOBILIZATION	LS	1
(5)(6)(7) 740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	S.Y.	180
(7) 740-11.01	TEMPORARY SEDIMENT TUBE (8 INCH)	L.F.	20
801-01	SEEDING (WITH MULCH)	UNIT	29
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	23
801-03	WATER (SEEDING & SODDING)	M.G.	5

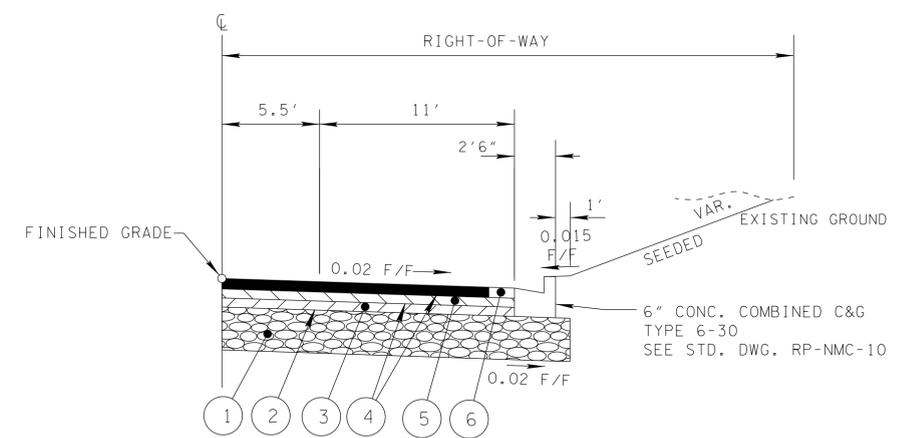
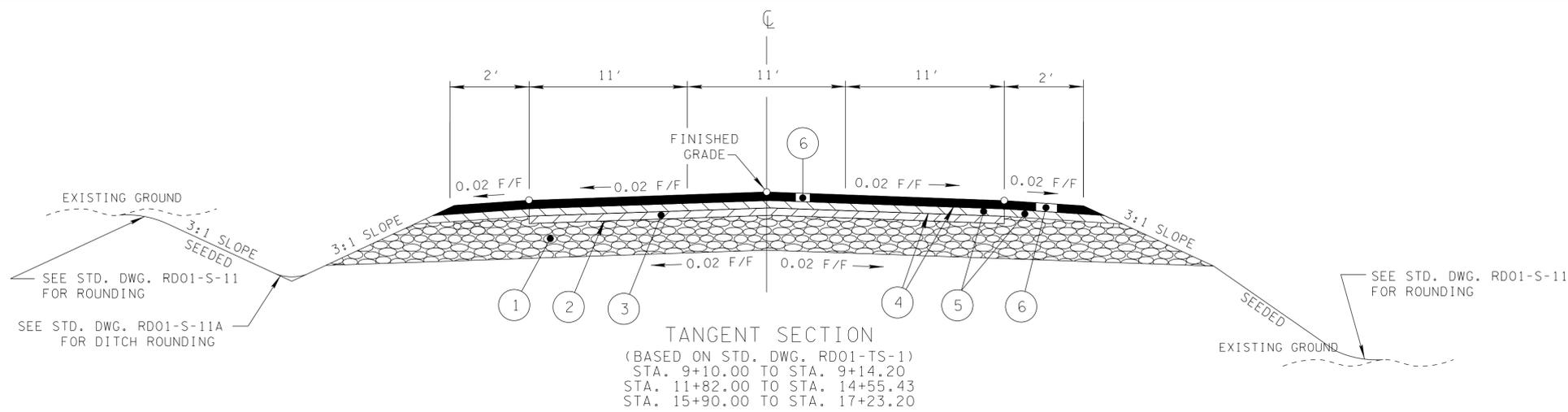
- (1) 30 C.Y. FOR TEMPORARY CONSTRUCTION EXIT
- (2) FOR CULVERT PROTECTION TYPE 1
- (3) FOR GRAVITY RETAINING WALL
- (4) FOR TEMPORARY CONSTRUCTION EXIT
- (5) 90 S.Y. FOR CULVERT PROTECTION TYPE 1
- (6) 90 S.Y. FOR TEMPORARY CONSTRUCTION EXIT
- (7) SEE SUBSECTION 209-07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

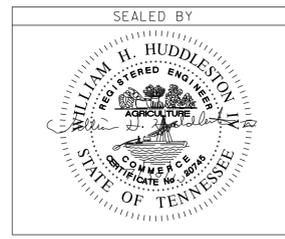
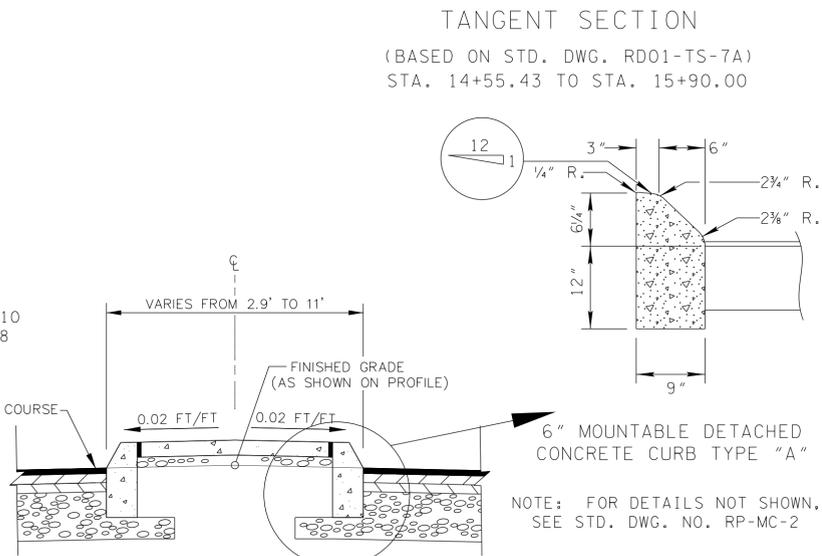
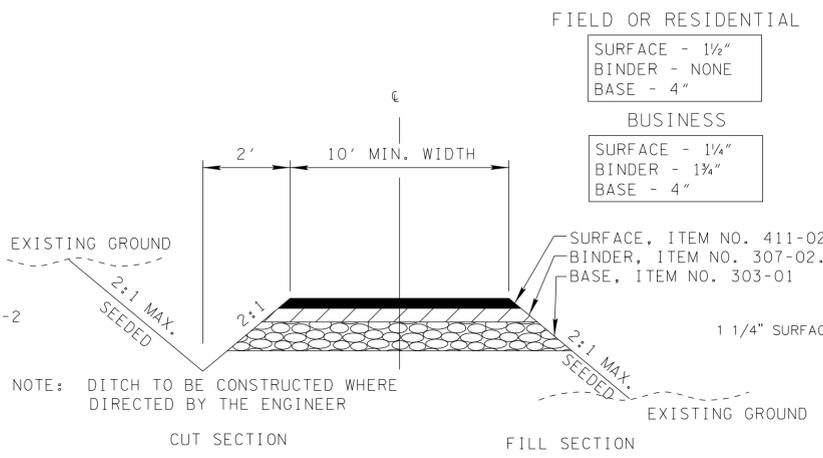
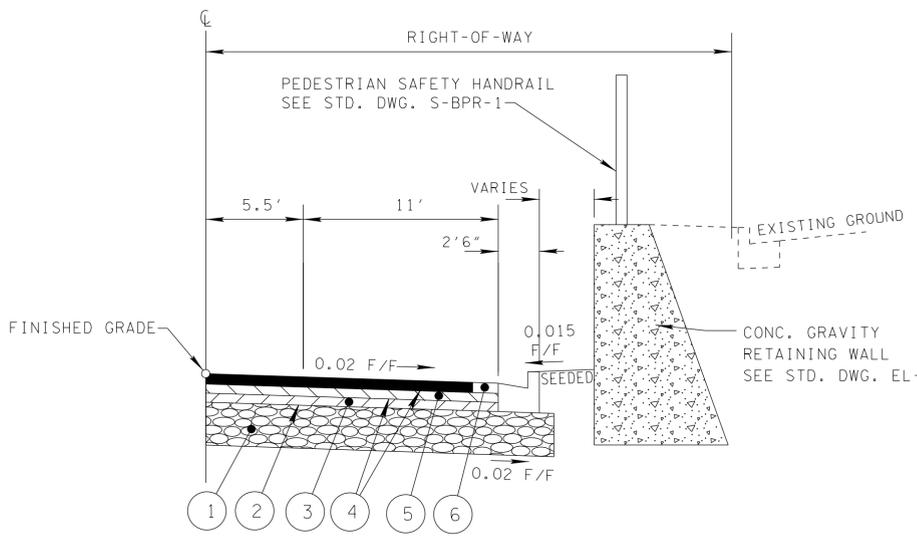
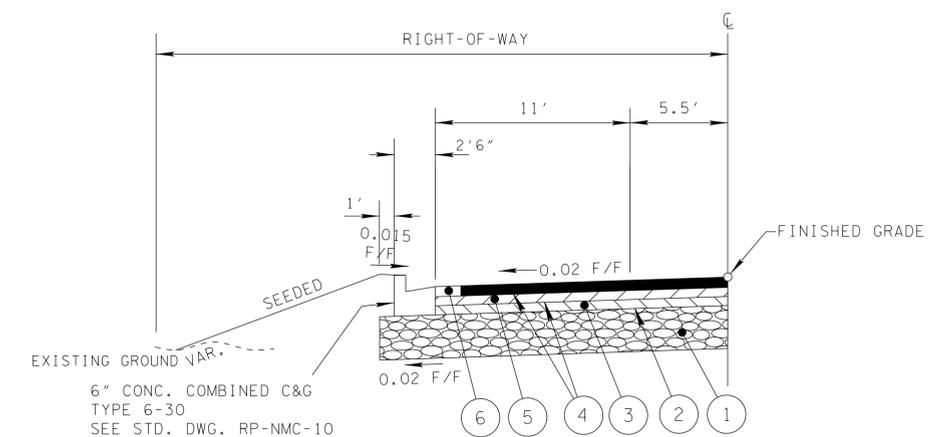
ESTIMATED
ROADWAY
QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	75951-2597-04	2
CONST.	2015	75951-3597-04	2A



PROPOSED PAVEMENT SCHEDULE	
① MINERAL AGGREGATE BASE @ 10" THICK 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"	④ TACK COAT ITEM NO. 403-01 BITUMINOUS MATERIAL FOR TACK COAT (T.C.) @ 0.07 GAL./SQ.YD.
② PRIME COAT ITEM NO. 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (P.C.) @ 0.35 GAL./SQ.YD. ITEM NO. 402-02 AGGREGATE FOR COVER MATERIAL (P.C.) @ 12 LBS./SQ.YD.	⑤ BITUMINOUS BINDER @ 2" THICK (APPROX. 226 LBS./SQ.YD.) ITEM NO. 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING BM-2
③ BITUMINOUS BLACK BASE @ 3.75" THICK (APPROX. 431.25 LBS./SQ.YD.) ITEM NO. 307-01.01 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	⑥ ASPHALTIC CONCRETE SURFACE @ 1.25" THICK (APPROX. 132.5 LBS./SQ.YD.) ITEM NO. 411-01.10 ACS MIX (PG64-22) GRADING D

PROPOSED PAVEMENT SCHEDULE - S.R. 70S MEDIAN OPENING	
① MINERAL AGGREGATE BASE @ 10" THICK 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"	④ TACK COAT ITEM NO. 403-01 BITUMINOUS MATERIAL FOR TACK COAT (T.C.) @ 0.07 GAL./SQ.YD.
② PRIME COAT ITEM NO. 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (P.C.) @ 0.35 GAL./SQ.YD. ITEM NO. 402-02 AGGREGATE FOR COVER MATERIAL (P.C.) @ 12 LBS./SQ.YD.	⑤ BITUMINOUS BINDER @ 2" THICK (APPROX. 226 LBS./SQ.YD.) ITEM NO. 307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING BM-2
③ BITUMINOUS BLACK BASE @ 3.00" THICK (APPROX. 431.25 LBS./SQ.YD.) ITEM NO. 307-01.01 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	⑥ ASPHALTIC CONCRETE SURFACE @ 1.25" THICK (APPROX. 132.5 LBS./SQ.YD.) ITEM NO. 411-01.10 ACS MIX (PG64-22) GRADING D



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE

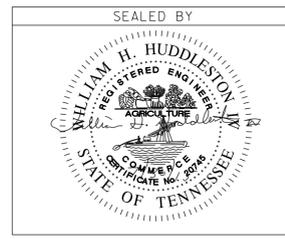
8/10/2015 14:50:08 PM C:\Land Projects 2005\E-Malis\Singer_Road\INTD01 CD 7-29-15\002A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	75951-2597-04	2B

ESTIMATED UTILITIES QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
790-07.07	POLE 60 FT CLASS H1 METAL	EACH	5
790-21.09	1Ø PRIMARY TAP 15KV	EACH	1
790-25.01	3Ø CROSSARM SGL 15KV	EACH	3
790-25.21	3Ø CROSSARM DEADEND SGL 15KV	EACH	2
790-25.23	3Ø CROSSARM DDE 15KV	EACH	4
790-30.06	SECONDARY CONDUCTOR 6 AL DUPLEX	L.F.	471
790-30.11	SECONDARY CONDUCTOR 6 AL TRIPLEX	L.F.	20
790-31.02	SERVICE ASSEMBLY-POLE TYPE	EACH	7
790-32.01	DOWN GUY-THROUGH BOLT TYPE	EACH	17
790-40.03	OH COND 1/0 6/1 ACSR RAVEN	L.F.	20
790-40.05	OH COND 3/0 6/1 ACSR PIGEON	L.F.	20
790-40.42	OH COND 336.4 19 AAC TULIP	L.F.	646
790-40.49	OH COND 795 37 AAC ARBUTUS	L.F.	1938
790-46.01	1Ø TRANSFORMER	EACH	2
790-58.03	CUTOUT KNIFE SWITCH, SNGL LOADBREAK 15KV	EACH	4
790-58.06	GOAB SWITCH 15KV	EACH	1
790-70.20	STREET LIGHT (DESCRIPTION)	EACH	4
790-72.01	ANCHOR POWER SCREW	EACH	9
790-98.01	REMOVE WIRE	L.F.	2482
790-98.02	REMOVE POLES	EACH	5
790-98.03	REMOVE FRAMING/ASSOCIATED APPARATUS	EACH	41

B:\0\2015 157:31PM
 C:\Lond Projects 2005\E-Malis\Singer Road \IND01 CD 7-29-15\002B.sht



STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

ESTIMATED
 UTILITIES
 QUANTITIES

GENERAL NOTES

GRADING

- (1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- (2) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING AND SODDING

- (3) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEMS 203-04 AND/OR 203-07. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 801-01.
- (4) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.
- (5) ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

DRAINAGE

- (6) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.
- (7) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).
- (8) WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT WILL BE MADE DUE TO SUCH CHANGE.
- (9) DURING CONSTRUCTION OF DRAINAGE STRUCTURES, ALL COSTS ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC AT THESE STRUCTURES DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

MISCELLANEOUS

- (10) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES WHERE AND AS DIRECTED BY THE ENGINEER.
- (11) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

ROAD CLOSURE

- (12) NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXIMATE DURATION OF THE CONSTRUCTION: THESE PARTIES INCLUDE, BUT ARE NOT LIMITED TO: (1) LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT.

DRIVEWAYS

- (13) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.
- (14) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.
- (15) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.
- (16) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.
- (17) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.
- (18) ON NON-STATE ROUTES, ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS SHALL REQUIRE A PERMIT ONLY IF THE LOCAL AGENCY SPECIFIES THE NEED FOR THAT PERMIT.

TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS

- (19) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, PAINTED PAVEMENT MARKING (4"LINE), L.M.

FINAL PAVEMENT MARKING IF REFLECTORIZED PAINT IS USED

- (20) PERMANENT PAVEMENT LINE MARKINGS SHALL BE REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01 PAINTED PAVEMENT MARKING (4IN LINE), L.M.

PAVING

- (21) THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE PAVER SUCH THAT MATERIAL IS CONFINED AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A CONSOLIDATED WEDGE-SHAPE PAVEMENT EDGE OF APPROXIMATELY 25 TO 30 DEGREES AS IT LEAVES THE PAVER (MEASURED FROM A LINE PARALLEL TO THE PAVEMENT SURFACE.) THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SET FORTH IN SPECIAL PROVISION 407SE.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- (22) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.
- (23) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.
- (24) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.
- (25) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

- (26) USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

- (27) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF A OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

- (28) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SPECIAL NOTES

NPDES

- (29) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 8, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

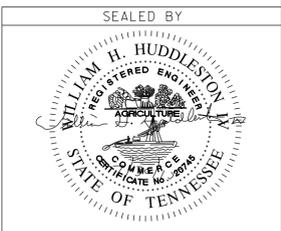
ENVIRONMENTAL

- (30) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION COMPREHENSIVE INSPECTION OFFICE SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

ECOLOGY

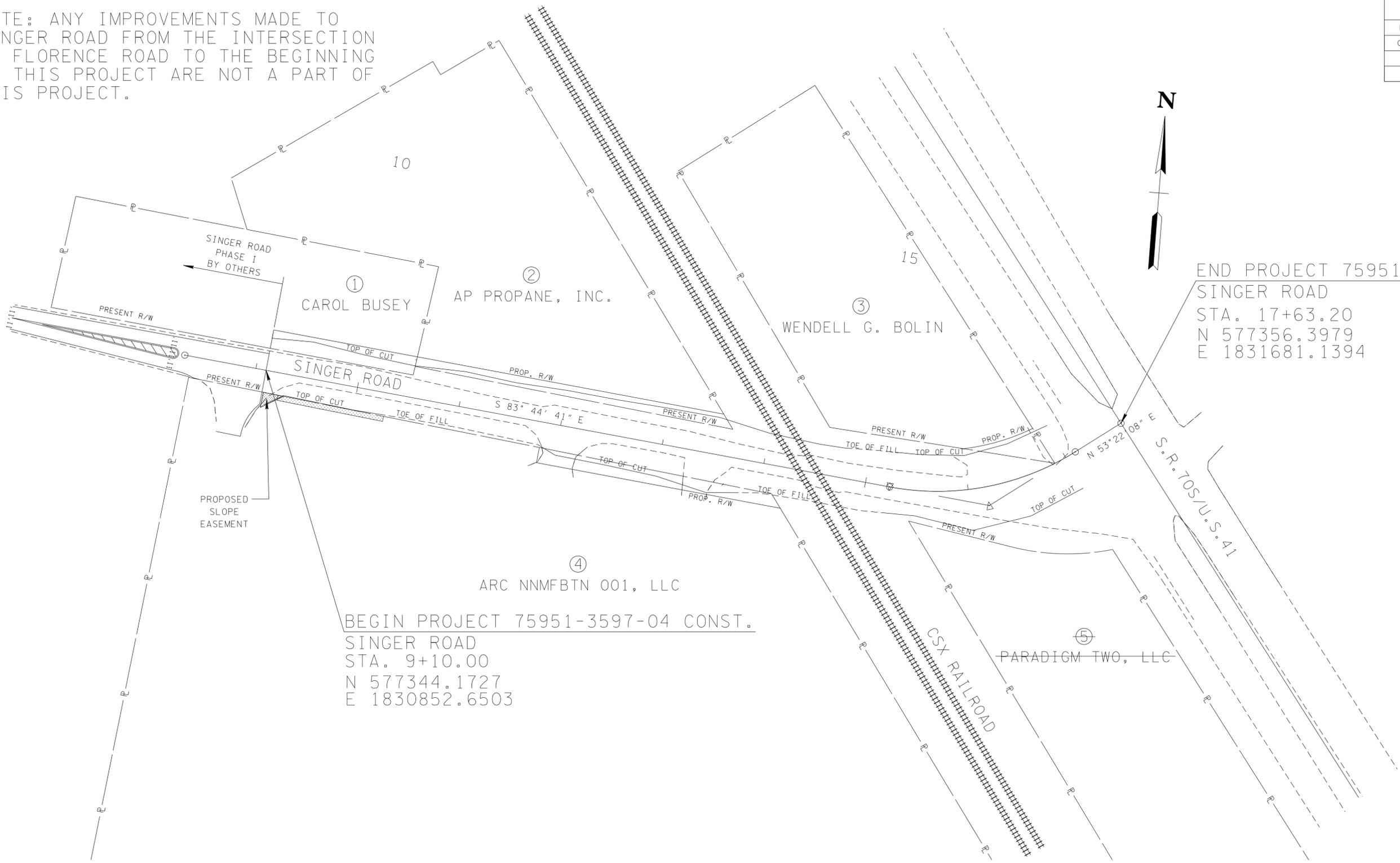
- (31) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE WILL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING CONCERNING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR DESIGNATED CONSULTANT WILL NEED TO BE ON-SITE FOR WORK BEING DONE WHICH COULD AFFECT THE STREAM OR SPECIES.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	75951-3597-04	2C



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	75951-2597-04	3
CONST.	2015	75951-3597-04	3

NOTE: ANY IMPROVEMENTS MADE TO SINGER ROAD FROM THE INTERSECTION OF FLORENCE ROAD TO THE BEGINNING OF THIS PROJECT ARE NOT A PART OF THIS PROJECT.

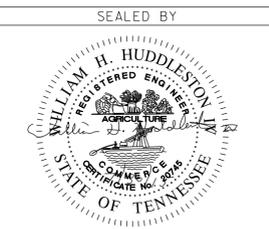


END PROJECT 75951-3597-04 CONST.
 SINGER ROAD
 STA. 17+63.20
 N 577356.3979
 E 1831681.1394

BEGIN PROJECT 75951-3597-04 CONST.
 SINGER ROAD
 STA. 9+10.00
 N 577344.1727
 E 1830852.6503

UTILITY OWNERS

UTILITY	OWNER	ADDRESS	PHONE NO.	CONTACT
ELECTRIC	MURFREESBORO ELECTRIC DEPT.	205 N. WALNUT ST., MURFREESBORO, TN 37130	615-494-0428	CHRIS BARNES
ELECTRIC	MTEMC	555 NEW SALEM ROAD, MURFREESBORO, TN 37129	615-494-1540	TALLEY FLOYD
TELEPHONE	AT&T	116 S. CANNON AVE., MURFREESBORO, TN 37129	615-848-2082	KENNETH KORNEGAY
TELEPHONE	VERIZON BUSINESS (MCI)	2400 N. GLENVILLE BLVD., RICHARDSON, TX 75082	972-729-6322	DEAN BOYERS
SANITARY SEWER	MURFREESBORO WATER & SEWER DEPT.	300 NW BROAD ST., MURFREESBORO, TN 37130	615-848-3209	DARREN GORE
WATER	CONSOLIDATED UTILITY DISTRICT	709 NEW SALEM HIGHWAY, MURFREESBORO, TN 37129	615-278-6027	WILLIAM DUNNILL
GAS	ATMOS ENERGY	810 CRESCENT CENTRE DR., SUITE 600, FRANKLIN, TN 37067	615-771-8311	ROBERT ARNOLD
FIBER OPTIC	QWEST COMMUNICATIONS CO., LLC	700 W. MINERAL AVE., UTD2734, LITTLETON, CO 80120	303-992-9931	GEORGE W. McELVAIN



COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 1.00007 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

PROPERTY
 MAP
 STA. 9+10 TO STA. 17+63.20
 SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	75951-2597-04	3A
CONST.	2015	75951-3597-04	3A

REV. 8-24-15:
ADDED CSXT CONTACT
INFORMATION AND
MILEPOST NUMBER.

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT (SQUARE FEET)		
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERMANENT DRAINAGE	SLOPE	CONST.
				BK.	PAGE											
1	CAROL BUSEY	57	40.01	609	3347	0.90	-	0.90	0.06	-	0.06	0.84	-	-	-	-
2	AP PROPANE, INC.	57	41.00	443	345	1.88	-	1.88	0.08	-	0.08	1.80	-	-	-	-
3	WENDELL G. BOLIN	57	31.02	300	62	1.35	-	1.35	0.03	-	0.03	1.32	-	-	-	-
4	ARC NMFBN 001, LLC	57	42.00	1304	2548	-	28.78	28.78	-	0.07	0.07	-	28.71	-	150	521
5	PARADIGM TWO, LLC	57	43.00	336	398	-	5.14	5.14	-	-	-	-	5.14	-	-	-

RAILROAD NOTES

CONSTRUCTION

- TRACK WORK WITHIN THE CSX RAILWAY OPERATIONS CORRIDOR AND TRAIN WARNING DEVICES CONSTRUCTION TO BE PERFORMED BY CSX FORCE ACCOUNT.
- CONTRACTOR SHALL PERFORM ROADWAY WORK TO AND THROUGH THE RAILROAD PROPERTY AS NEEDED. THIS INCLUDES:
 - ROADWAY MILLING, PAVING, CURB, GUTTER, AND SIDEWALK
 - PAVEMENT MARKINGS, PAINTING, AND SAFETY WARNING SIGNS.
- AN "OBSTRUCTION FREE ZONE" MUST BE MAINTAINED ADJACENT AND PARALLEL TO THE TRACK. ANY ROADWAY COMPONENTS (E.G. CURBS, MEDIANS, SIDEWALK, AND DRAINAGE STRUCTURES) MUST BE FLUSH WITH THE PAVEMENT OR CEASE WITHIN TEN (10) FEET OF THE CENTERLINE OF THE TRACK.
- THE CSXT MILEPOST FOR THIS CROSSING (CROSSING #349255P) IS 00J-25.56.

COORDINATION

- RAILROAD FLAGGING WILL BE REQUIRED FOR PAVEMENT/CURB/SIDEWALK CONSTRUCTION, STORM DRAINAGE CONSTRUCTION, AND ASPHALT MILLING, PAVING, AND PAVEMENT MARKING WITHIN FIFTY (50) FEET OF THE RAILROAD TRACK, IF AND WHEN CSXT CONSTRUCTION FORCES ARE NOT ON SITE FOR FORCE ACCOUNT WORK.
- AT-GRADE CROSSING RECONSTRUCTION BY CSX TRANSPORTATION FORCES SHALL BE PERFORMED DURING TIMES OF FULL ROAD CLOSURE AND LOCAL ACCESS TO AND FOR RESIDENTIAL AND COMMERCIAL PROPERTIES SHALL NOT CROSS THE RAILROAD TRACKS. A FULL-DEPTH CONCRETE CROSSING SURFACE IS PROPOSED AND WILL BE INCORPORATED INTO THE CSXT FORCE ACCOUNT ESTIMATE. THE CONTRACTOR WILL BE RESPONSIBLE FOR BARRICADE PROTECTION AND DETOURS REQUIRED FOR THE RAILROAD CONSTRUCTION WORK.
- CSXT FORCES WILL BE RESPONSIBLE FOR THE EXCAVATION AND REMOVAL OF ROADWAY PAVEMENT APPROACHES TO THE TRACKS FOR THE PURPOSE OF THE GRADE CROSSING CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY OTHER PAVEMENT REMOVAL FOR THE NEW DESIGN AND THE TRANSITION PAVING FROM THE EDGE OF THE RAILROAD CROSSING SURFACE TO THE FINISHED ROADWAY.
- ROADWAY CENTERLINE AND FINISHED ROADWAY ELEVATION LAYOUT PROPOSED OR REQUIRED FOR THE ROADWAY CONSTRUCTION WILL BE PROVIDED TO THE RAILROAD BY THE CONTRACTOR OR TDOT. TYPICALLY, THE TOP OF RAIL ELEVATION WILL INCREASE APPROXIMATELY ONE (1) INCH FROM THE CURRENT PROFILE FOR THIS TYPE OF GRADE CROSSING RECONSTRUCTION.
- THE CONTRACTOR WILL BE RESPONSIBLE TO SCHEDULE AND PERFORM ASPHALT PAVING THROUGH THE COMPLETED RAILROAD AT-GRADE CROSSING UTILIZING RAILROAD EMPLOYEE FLAGGING SERVICES DESCRIBED ABOVE.

UTILITY NOTES

- THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.
- UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.
- THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.
- THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

RIGHT-OF-WAY NOTES

- IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, ROADWAY DESIGN DIVISION IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.
- EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.
- WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.
- WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.
- ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.
- NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.
- ON PROJECTS WITH CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT. AFTER THE PERMIT HAS BEEN GRANTED, THE DEPARTMENT WILL CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE THROUGH THE CURB AND SIDEWALK, PROVIDED THE CURB AND SIDEWALK HAVE NOT BEEN CONSTRUCTED. IT WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE FROM BACK OF SIDEWALK TO TOUCHDOWN POINT FOR ANY ADDITIONAL DRIVEWAYS OR FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

DISTURBED AREA

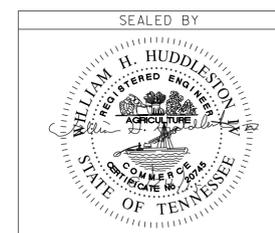
BETWEEN SLOPE LINES	1.07 AC
INSIDE CONSTRUCTION EASEMENT	0.00 AC
TOTAL DISTURBED AREA	1.07 AC

RAILROAD CONTACTS

MR. JOHN FORTUNE - DIVISION ENGINEER
CSX TRANSPORTATION INC. NASHVILLE DIVISION
ATTN: MR. BUFORD SMITH, STAFF ENGINEER
624 GRASSMERE PK. RD., SUITE 14
NASHVILLE, TN 37211
PHONE: 615-835-6004
E-MAIL: john.fortune@csx.com

MR. BILL STEWART
CSXT DIRECTOR CONSTRUCTION ENGINEERING
CSX TRANSPORTATION INC.
351 THORNTON ROAD, SUITE 125
LITHIA SPRINGS, GA 30122
PHONE: 770-819-2841
E-MAIL: Bill_R_Stewart@csx.com

CSX DESIGNATED GENERAL ENGINEERING CONSULTANT
MR. CHRISTOPHER M. JOHNSON, PE - PROJECT ENGINEER
AECOM
1360 PEACHTREE STREET NE, SUITE 500
ATLANTA, GA 30309
PHONE: 404-965-7049
E-MAIL: Christopher.johnson@aecom.com

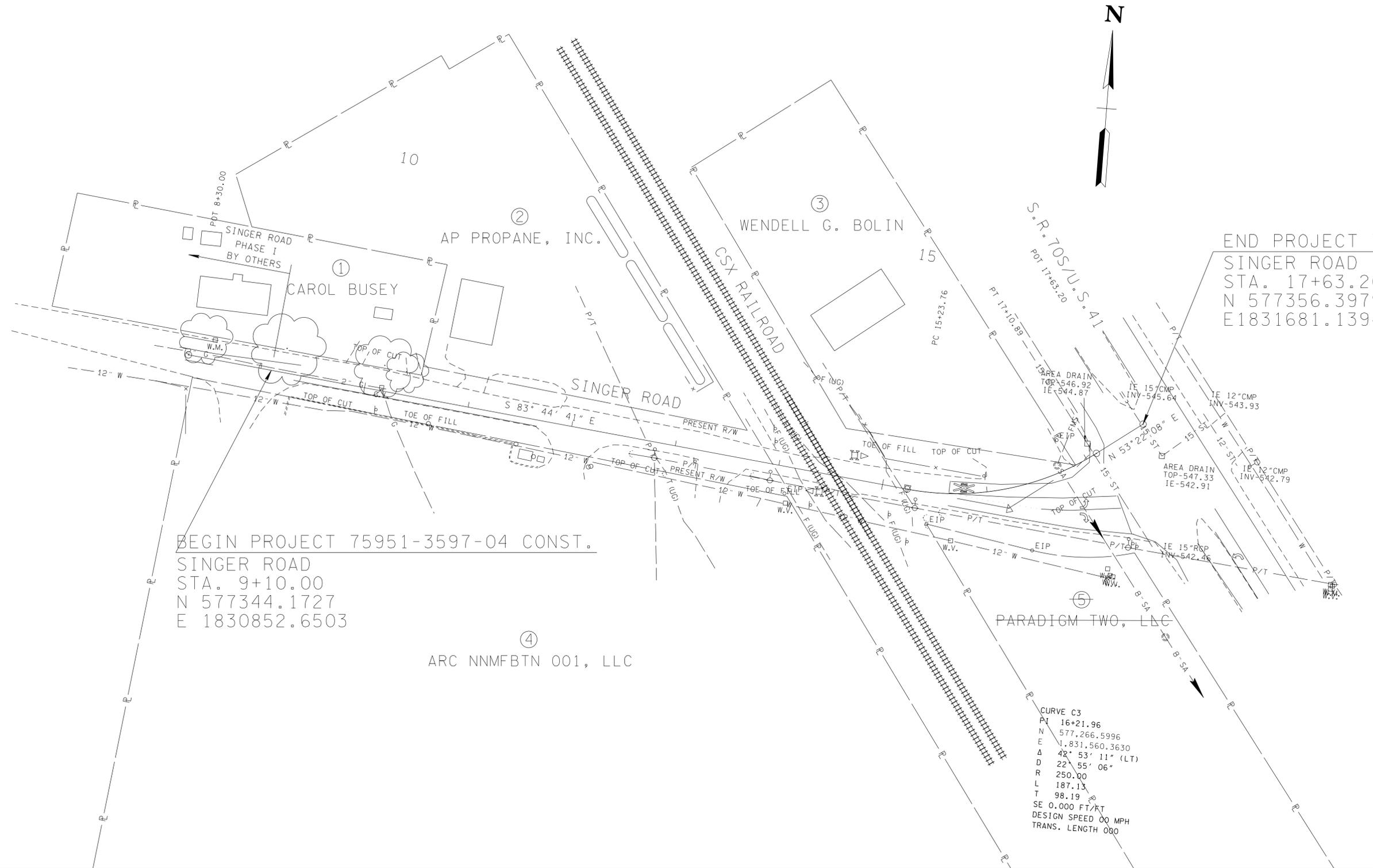


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROW ACQUISITION
TABLE AND UTILITY,
ROW, & RAILROAD
NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	75951-2597-04	4
CONST.	2015	75951-3597-04	4

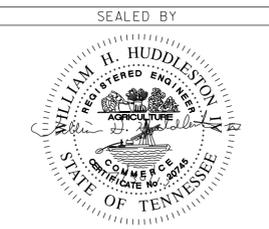
NOTE: ANY IMPROVEMENTS MADE TO SINGER ROAD FROM THE INTERSECTION OF FLORENCE ROAD TO THE BEGINNING OF THIS PROJECT ARE NOT A PART OF THIS PROJECT.



BEGIN PROJECT 75951-3597-04 CONST.
 SINGER ROAD
 STA. 9+10.00
 N 577344.1727
 E 1830852.6503

END PROJECT 75951-3597-04 CONST.
 SINGER ROAD
 STA. 17+63.20
 N 577356.3979
 E 1831681.1394

B:\10\2015 2:24:15 PM C:\Land Projects 2005\E-Mails\Singer_Road\INTD01 CD 7-29-15\004.sht



COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 1.00007 AND TIED TO THE TCRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

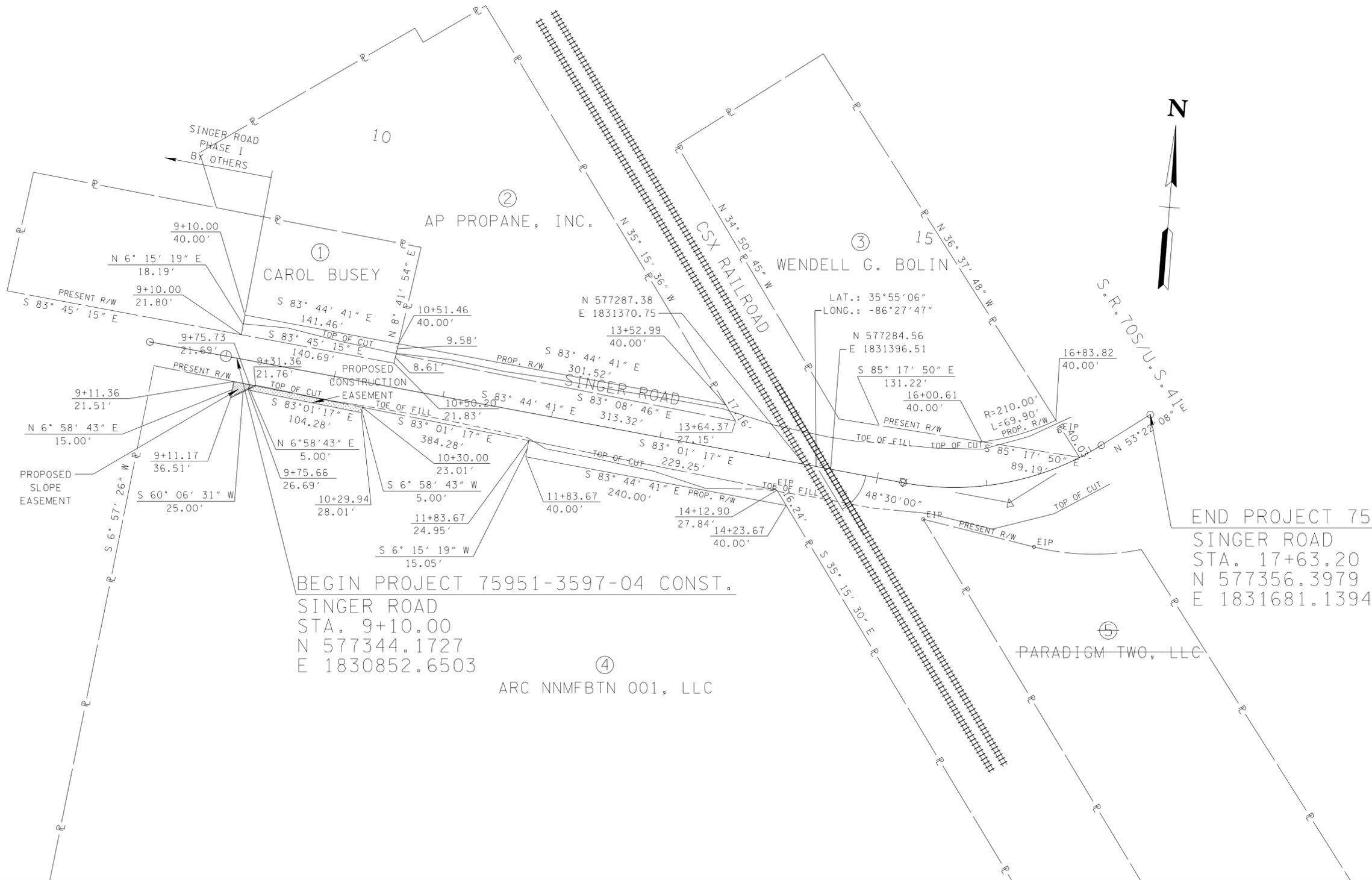
PRESENT LAYOUT
 STA. 9+10 TO STA. 17+63.20

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	75951-2597-04	4A
CONST.	2015	75951-3597-04	4A

NOTE: ANY IMPROVEMENTS MADE TO SINGER ROAD FROM THE INTERSECTION OF FLORENCE ROAD TO THE BEGINNING OF THIS PROJECT ARE NOT A PART OF THIS PROJECT.

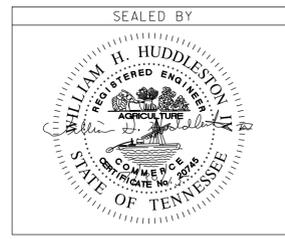
NOTE: EASEMENT REQUIRED FOR THE RAILROAD CROSSING TO BE OBTAINED BY THE UTILITIES ENGINEER BY PROVISIONS CONTAINED IN THE CROSSING AGREEMENT NEGOTIATED WITH THE RAILROAD.



BEGIN PROJECT 75951-3597-04 CONST.
 SINGER ROAD
 STA. 9+10.00
 N 577344.1727
 E 1830852.6503

END PROJECT 75951-3597-04 CONST.
 SINGER ROAD
 STA. 17+63.20
 N 577356.3979
 E 1831681.1394

B:\10\2015 2:22:58 PM
 C:\Land Projects 2005\E-Majlis\Singer_Road\ITD01 CD 7-29-15\004A.sht



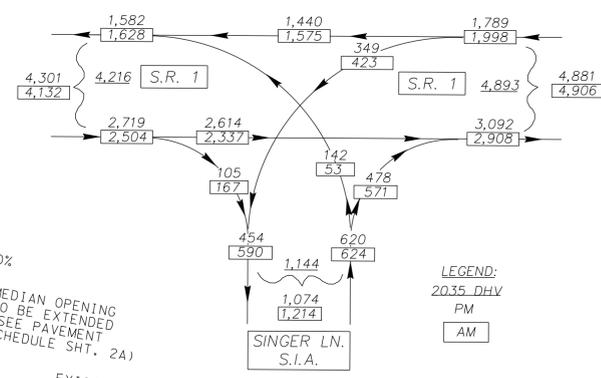
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00007 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

R.O.W.
 DETAILS
 STA. 9+10 TO STA. 17+63.20
 SCALE: 1"=50'

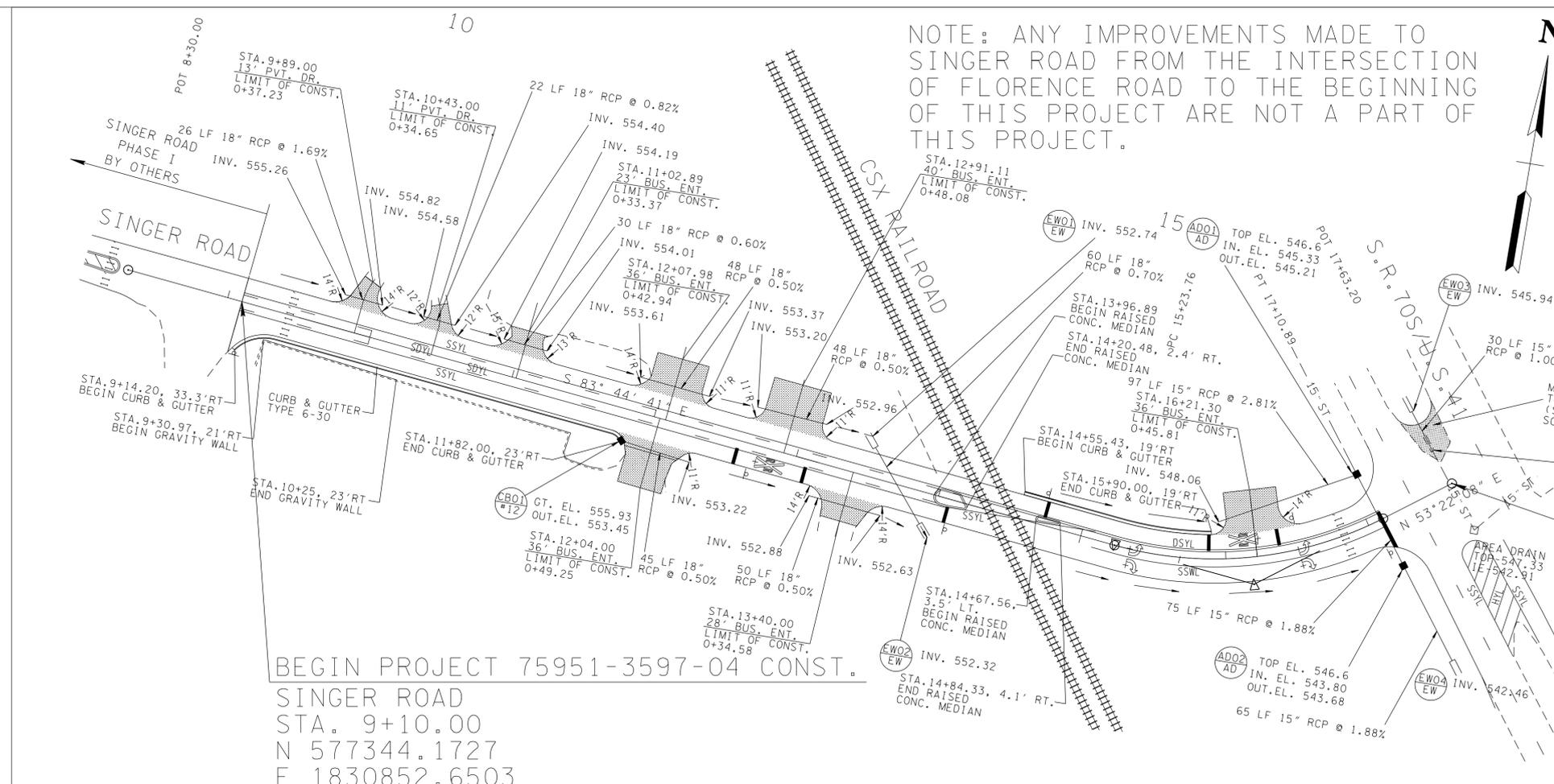
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	75951-2597-04	4B
CONST.	2015	75951-3597-04	4B

NOTE: ANY IMPROVEMENTS MADE TO SINGER ROAD FROM THE INTERSECTION OF FLORENCE ROAD TO THE BEGINNING OF THIS PROJECT ARE NOT A PART OF THIS PROJECT.

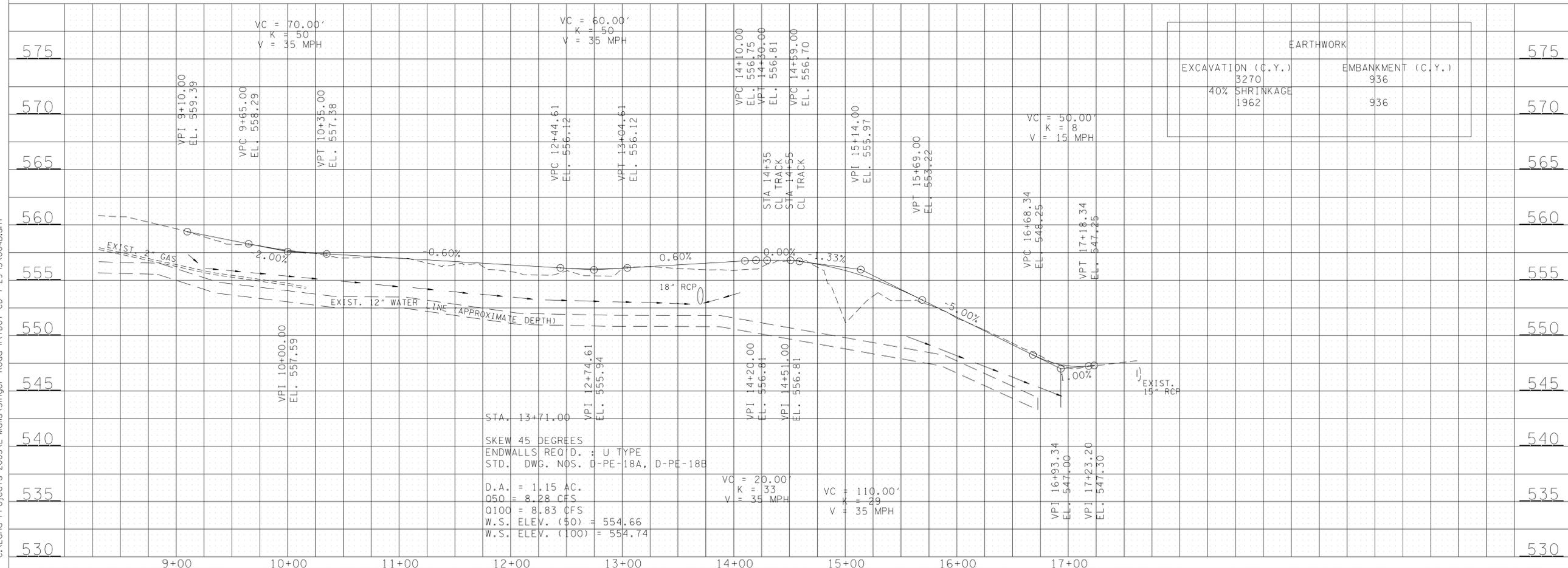


END PROJECT 75951-3597-04 CONST.
 SINGER ROAD
 STA. 17+63.20
 N 577356.3979
 E 1831681.1394

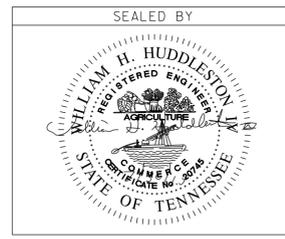
NOTE: TRACK WORK WITHIN THE CSX RAILWAY OPERATIONS CORRIDOR AND TRAIN WARNING DEVICES CONSTRUCTION TO BE PERFORMED BY CSX FORCE ACCOUNT.



BEGIN PROJECT 75951-3597-04 CONST.
 SINGER ROAD
 STA. 9+10.00
 N 577344.1727
 E 1830852.6503



EARTHWORK		
EXCAVATION (C.Y.)	3270	575
EMBANKMENT (C.Y.)	936	
40% SHRINKAGE	1962	570

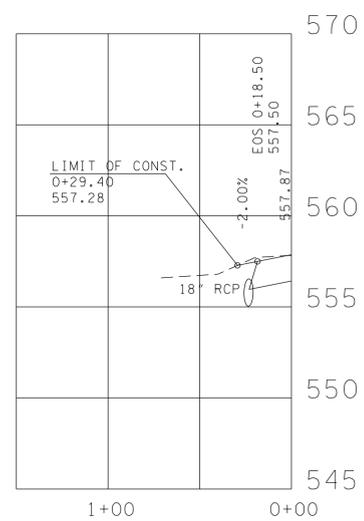


COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00007 AND TIED TO THE TCRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

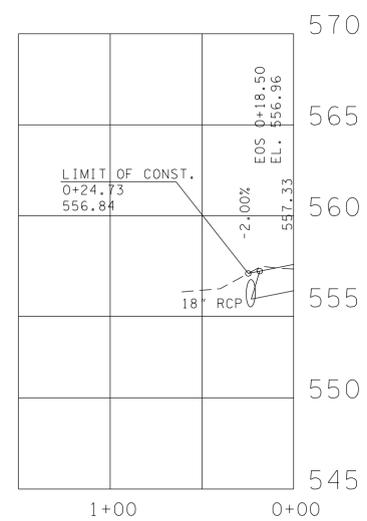
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT AND PROFILE
 STA. 9+10 TO STA. 17+63.20
 SCALE: 1"=50' HORIZ.
 1"=5' VERT.

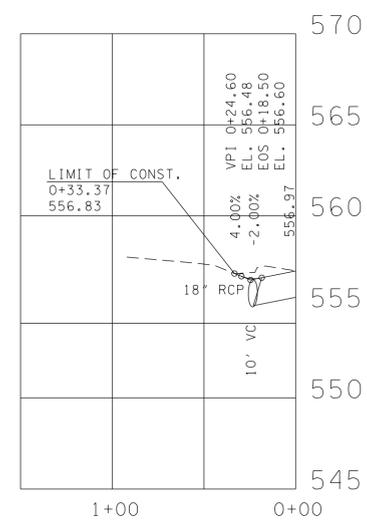
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	75951-2597-04	8
CONST.	2015	75951-3597-04	5



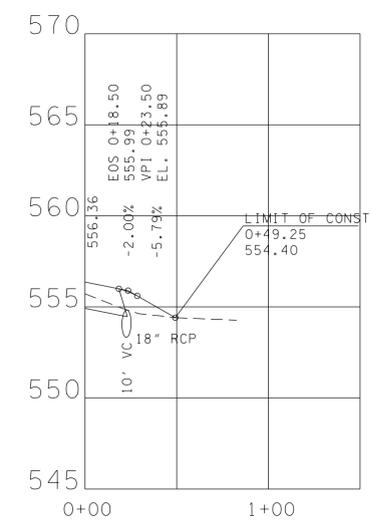
PVT. DR. LT. 9+89
TRACT NO. 1



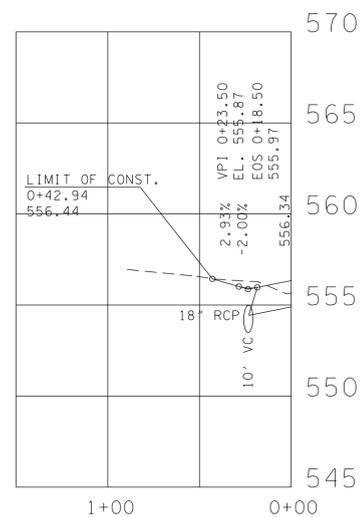
PVT. DR. LT. 10+43
TRACT NO. 1



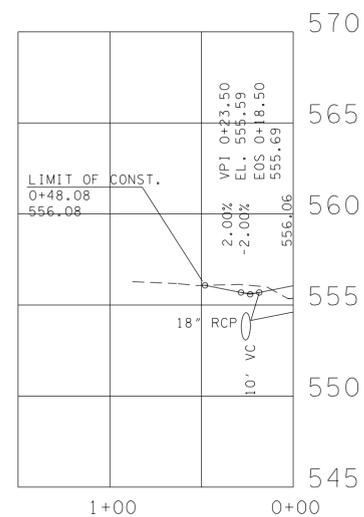
BUS. ENT. LT. 11+02.79
TRACT NO. 2



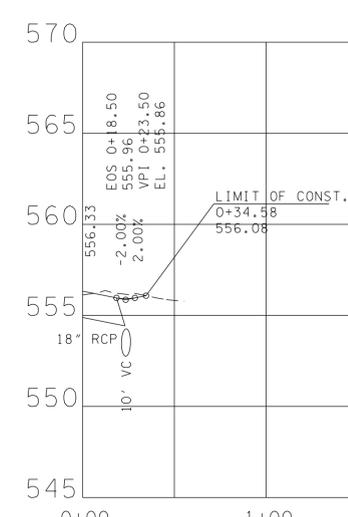
BUS. ENT. RT. 12+04.00
TRACT NO. 4



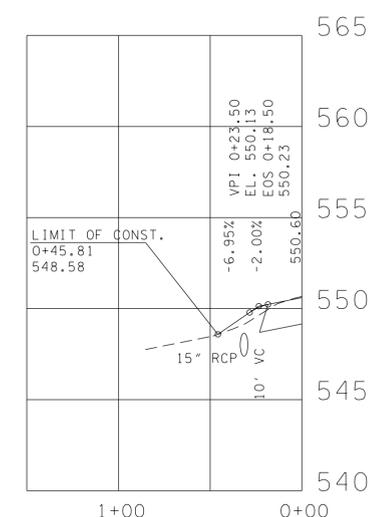
BUS. ENT. LT. 12+07.98
TRACT NO. 2



BUS. ENT. LT. 12+91.11
TRACT NO. 2

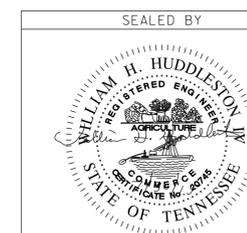


BUS. ENT. RT. 13+40.00
TRACT NO. 4



BUS. ENT. LT. 16+21.30
TRACT NO. 3

8/10/2015 2:54:54 PM C:\land Projects 2005\E-Malis\Singer Road\INTD01 CD 7-29-15\RF\Singer-0529pvtDrProfileSheets082514.dgn

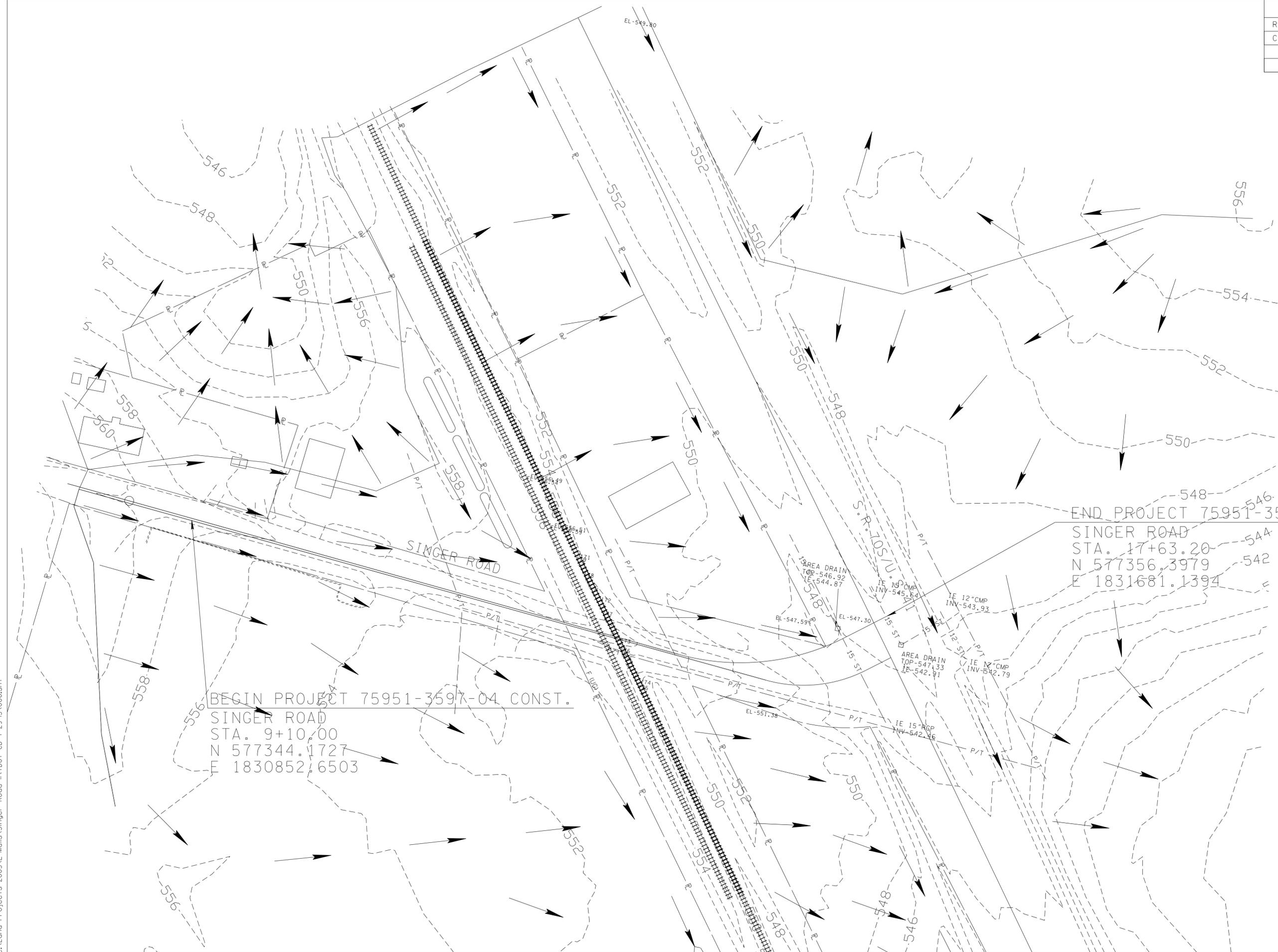


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE
DRIVEWAY
PROFILES

SCALE: 1"=50' HORIZ.
1"=5' VERT.

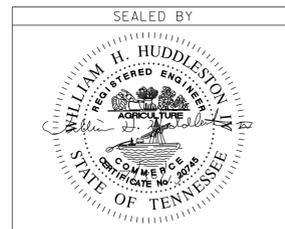
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	75951-2597-04	5
CONST.	2015	75951-3597-04	6



BEGIN PROJECT 75951-3597-04 CONST.
 SINGER ROAD
 STA. 9+10.00
 N 577344.1727
 E 1830852.6503

END PROJECT 75951-3597-04 CONST.
 SINGER ROAD
 STA. 17+63.20
 N 577356.3979
 E 1831681.1394

8/10/2015 2:56:57 PM
 C:\Land Projects 2005\E-Malis\Singer_Road\INTD01 CD 7-29-15\006.sht



COORDINATES ARE NAD/83(1995).
 ARE DATUM ADJUSTED BY THE
 FACTOR OF 1.00007 AND TIED TO
 THE TCRN. ALL ELEVATIONS ARE
 REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

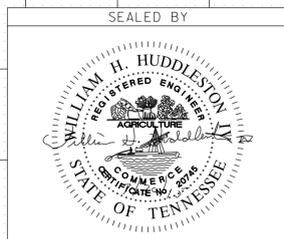
**DRAINAGE
 MAP**
 STA. 9+10 TO STA. 17+63.20
 SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	75951-2597-04	6
CONST.	2015	75951-3597-04	7

8/10/2015 2:59:52 PM
 C:\Land Projects 2005\E-Moils\Singer Road\ITD01 CD 7-29-15\RF\Singer-0529\Culvert\XSSheets.dgn



STA. 13+71.00
 SKEW 45 DEGREES
 ENDWALLS REQ'D. : U TYPE
 STD. DWG. NOS. D-PE-18A, D-PE-18B
 D.A. = 1.15 AC.
 Q50 = 8.28 CFS
 Q100 = 8.83 CFS
 W.S. ELEV. (50) = 554.66
 W.S. ELEV. (100) = 554.74



SEaled BY
 STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
**CULVERT
 CROSS-SECTION**
 STA. 13+71.00
 SCALE: 1"=10' HORIZ.
 1"=10' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	75951-3597-04	8

EROSION PREVENTION AND SEDIMENT CONTROL

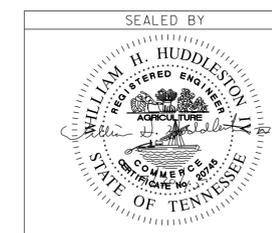
NPDES

- (1) NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC DEVICES ON THE EPSC DEVICES ON THE EPSC PLAN CONTAINED IN THE APPROVED SWPPP.
- (2) THE EPSC MEASURES AND/OR PLAN SHALL BE MODIFIED AS NECESSARY SO THAT THEY ARE EFFECTIVE AT ALL TIMES THROUGHOUT THE COURSE OF THE PROJECT.
- (3) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES, INCLUDING WITHOUT LIMITATIONS AS FOLLOWS:
 - A. INITIAL CLEARING AND GRUBBING SHALL BE LIMITED TO THAT NECESSARY FOR THE INSTALLATION OF APPLICABLE EPSC MEASURES IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED IN THE SWPPP.
 - B. NO OTHER CLEARING AND GRUBBING OPERATIONS SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.
 - C. NO CULVERT OR BRIDGE CONSTRUCTION SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.
 - D. NO GRADING, EXCAVATION, CUTTING, FILLING, OR OTHER EARTHWORK SHALL BE STARTED BEFORE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.
- (4) PERMANENT EPSC MEASURES SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 14 CALENDAR DAYS. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.
- (5) STEEP SLOPES (A NATURAL OR CREATED SLOPE OF 35% GRADE (2.8H:1V) OR GREATER REGARDLESS OF HEIGHT) SHALL BE TEMPORARILY STABILIZED NO LATER THAN 7 CALENDAR DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.
- (6) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SUPPORT ACTIVITIES; TDOT PROJECTS ARE COVERED UNDER THE "WASTE AND BORROW" MANUAL PER THE SSWMP.
- (7) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.
- (8) RAIN WATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND MAINTAINED.
- (9) SILT FENCE SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF STOCKPILED SOIL. TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING NO FLOW CONDITIONS AND STABILIZED BY THE END OF THE WORK DAY.
- (10) UTILITY CROSSINGS FOR PERENNIAL STREAMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO UTILITIES IN THIS PROJECT IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC). THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLANS (SWPPP).

- (11) IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR INSTALLER TO PROTECT FROM EROSION EXPOSED EARTH RESULTING FROM THEIR OPERATIONS AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.
- (12) FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN SEVEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOIL OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL SUCH TIME AS THE TRENCH IS BACKFILLED.
- (13) IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC), TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS IN THIS PROJECT. THEREFORE, THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLANS (SWPPP). THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT WORK.
- (14) TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORM WATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.
- (15) FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.
- (16) THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS (AS APPROVED BY THE TDOT PROJECT ENGINEER).
- (17) THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES TO REPLACE IN-PLACE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT PROJECT ENGINEER BEFORE COMMENCING WORK.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
*SF *SF *SF *	SILT FENCE	EC-STR-3B
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A

EPSC QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	ROAD & DRAINAGE EXCAVATION (FOR TEMP. CONST. EXITS)	C.Y.	30
209-05	SEDIMENT REMOVAL	C.Y.	70
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	1100
209-08.07	ROCK CHECK DAM	EACH	8
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	1
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	3
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	100
709-05.05	MACHINED RIPRAP (CLASS A-3)	TON	160
709-05.06	MACHINED RIPRAP (CLASS A-1)	TON	60
740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	S.Y.	180
740-11.01	TEMPORARY SEDIMENT TUBE (8 INCH)	L.F.	20



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC NOTES
AND
TABULATION

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	75951-2597-04	7
CONST.	2015	75951-3597-04	9

REV. 8-10-15:
ADDED OUTFALL 3



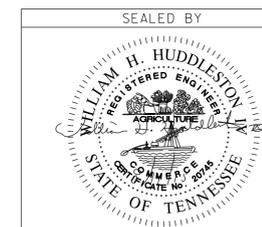
BEGIN PROJECT 75951-3597-04 CONST.
SINGER ROAD
STA. 9+10.00
N 577344.1727
E 1830852.6503

END PROJECT 75951-3597-04 CONST.
SINGER ROAD
STA. 17+63.20
N 577356.3979
E 1831681.1394

SHOWING EXISTING CONTOURS

CURVE C3
PI 16+21.96
N 577.266.5996
E 1.831.560.3630
Δ 42° 53' 11" (LT)
D 22° 55' 06"
R 250.00
L 187.13
T 98.19
SE 0.000 FT/FT
DESIGN SPEED 00 MPH
TRANS. LENGTH 000

B:\11\2015 3:00:55 PM
C:\Lond Projects 2005\E-Majis\Singer_Road \INTD01 CD 7-29-15\009.sht



COORDINATES ARE NAD/83(1995).
ARE DATUM ADJUSTED BY THE
FACTOR OF 1.00007 AND TIED TO
THE TCRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

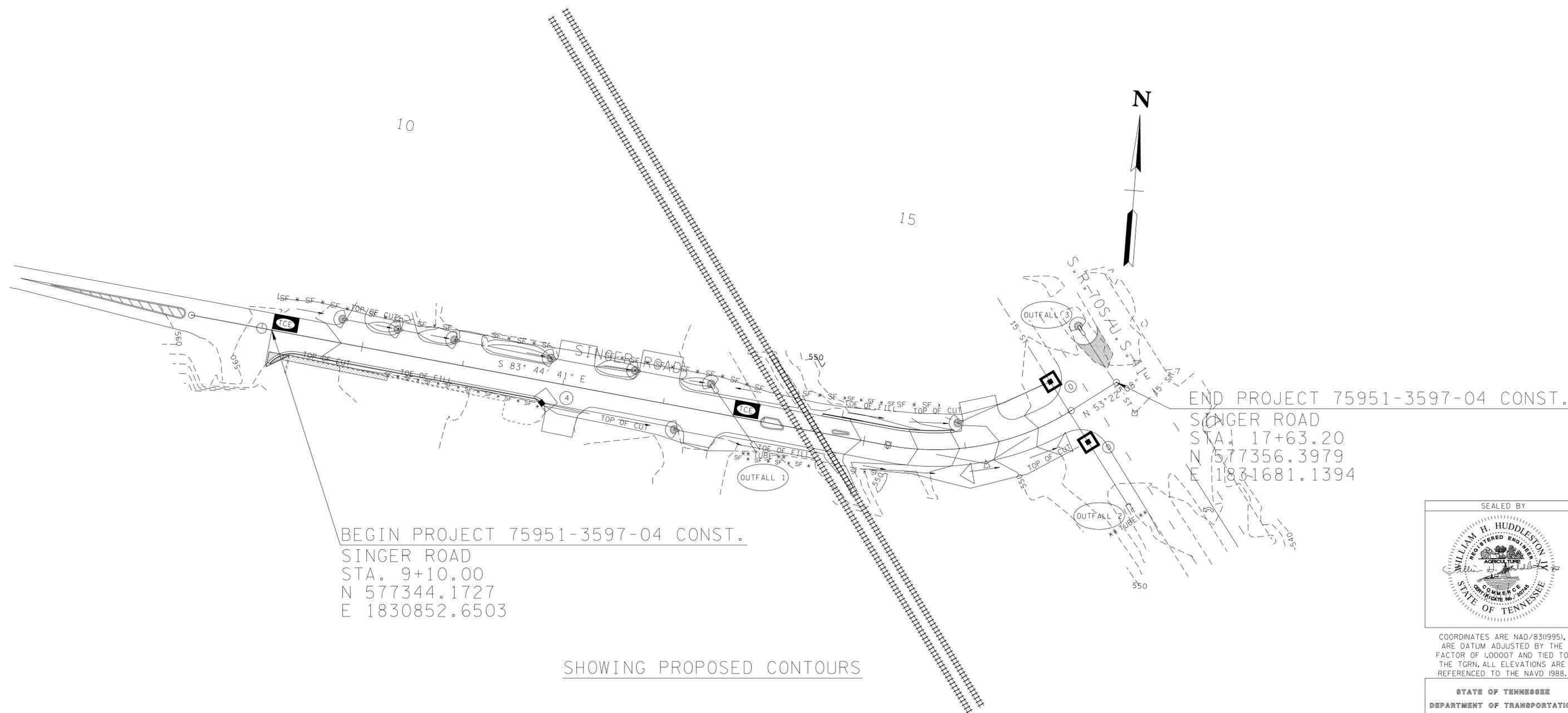
CLEARING
AND
GRUBBING

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	75951-3597-04	10

REV. 8-10-15:
ADDED OUTFALL 3

OUTFALLS TABLE		
OUTFALL	AREA (AC.)	SLOPE (%)
1	1.7	0.70
2	4.8	1.88
3	1.2	2.00

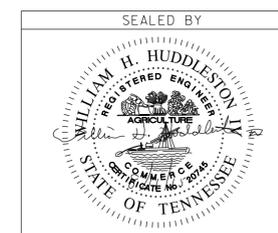


BEGIN PROJECT 75951-3597-04 CONST.
SINGER ROAD
STA. 9+10.00
N 577344.1727
E 1830852.6503

END PROJECT 75951-3597-04 CONST.
SINGER ROAD
STA. 17+63.20
N 577356.3979
E 1831681.1394

SHOWING PROPOSED CONTOURS

B:\11\2015 3:00:08 PM
C:\Land Projects 2005\E-Mails\Singer Road \INTD01 CD 7-29-15\010.sht



COORDINATES ARE NAD/83(1995),
ARE DATUM ADJUSTED BY THE
FACTOR OF 1.00007 AND TIED TO
THE TCRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

E.P.S.C.
PHASE I

SCALE: 1"=50'

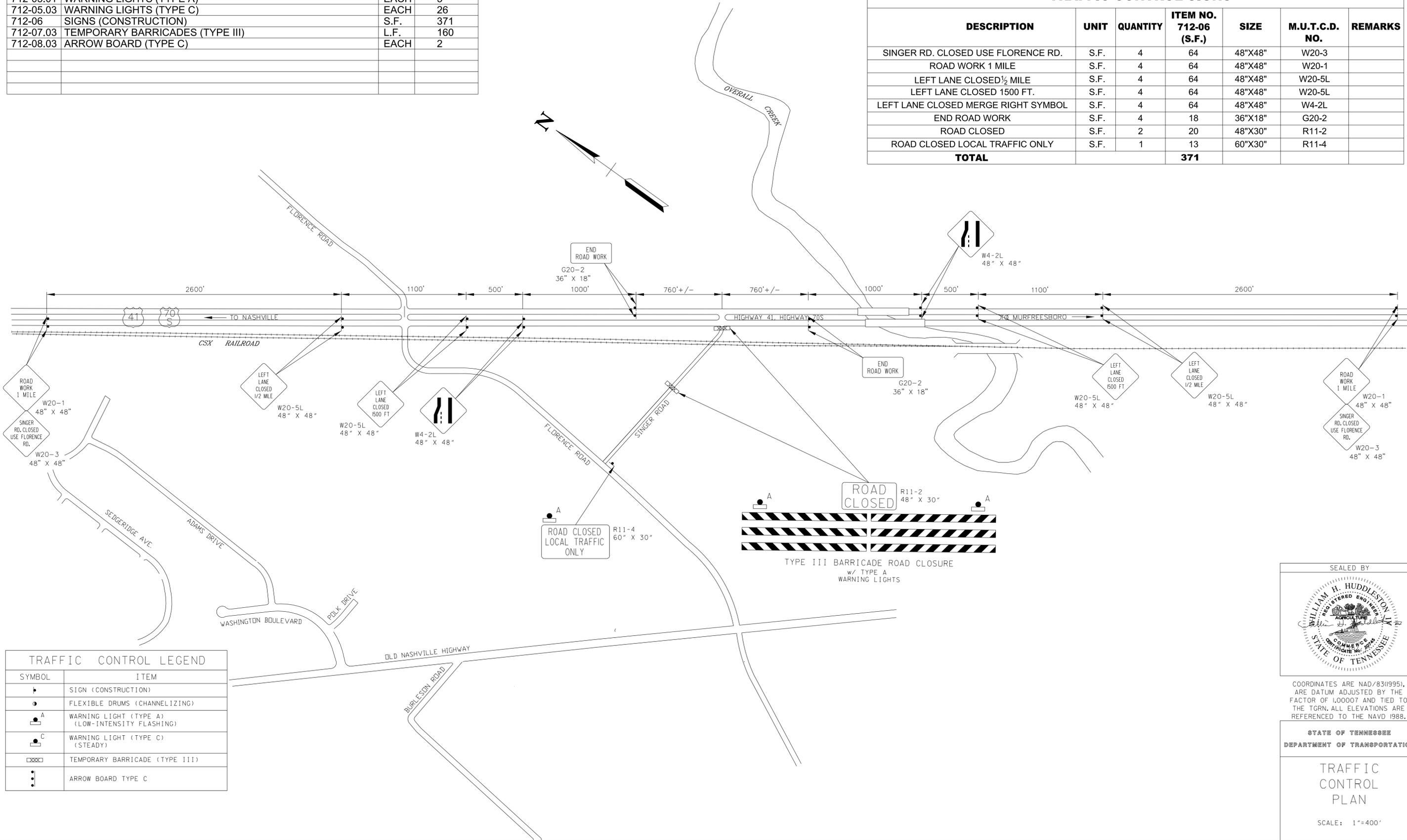
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	75951-3597-04	11

TRAFFIC CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
712-01	TRAFFIC CONTROL	LS	1
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	32
712-05.01	WARNING LIGHTS (TYPE A)	EACH	5
712-05.03	WARNING LIGHTS (TYPE C)	EACH	26
712-06	SIGNS (CONSTRUCTION)	S.F.	371
712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	160
712-08.03	ARROW BOARD (TYPE C)	EACH	2

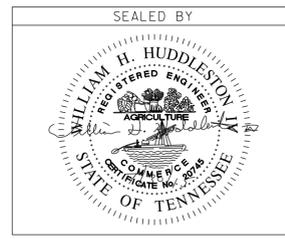
TRAFFIC CONTROL SIGNS

DESCRIPTION	UNIT	QUANTITY	ITEM NO. 712-06 (S.F.)	SIZE	M.U.T.C.D. NO.	REMARKS
SINGER RD. CLOSED USE FLORENCE RD.	S.F.	4	64	48"X48"	W20-3	
ROAD WORK 1 MILE	S.F.	4	64	48"X48"	W20-1	
LEFT LANE CLOSED 1/2 MILE	S.F.	4	64	48"X48"	W20-5L	
LEFT LANE CLOSED 1500 FT.	S.F.	4	64	48"X48"	W20-5L	
LEFT LANE CLOSED MERGE RIGHT SYMBOL	S.F.	4	64	48"X48"	W4-2L	
END ROAD WORK	S.F.	4	18	36"X18"	G20-2	
ROAD CLOSED	S.F.	2	20	48"X30"	R11-2	
ROAD CLOSED LOCAL TRAFFIC ONLY	S.F.	1	13	60"X30"	R11-4	
TOTAL			371			



TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
▬	SIGN (CONSTRUCTION)
●	FLEXIBLE DRUMS (CHANNELIZING)
● ^A	WARNING LIGHT (TYPE A) (LOW-INTENSITY FLASHING)
● ^C	WARNING LIGHT (TYPE C) (STEADY)
▬▬▬	TEMPORARY BARRICADE (TYPE III)
⋮	ARROW BOARD TYPE C



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00007 AND TIED TO THE TCRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

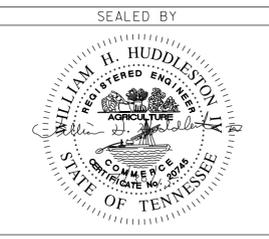
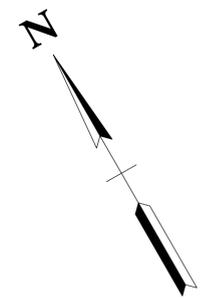
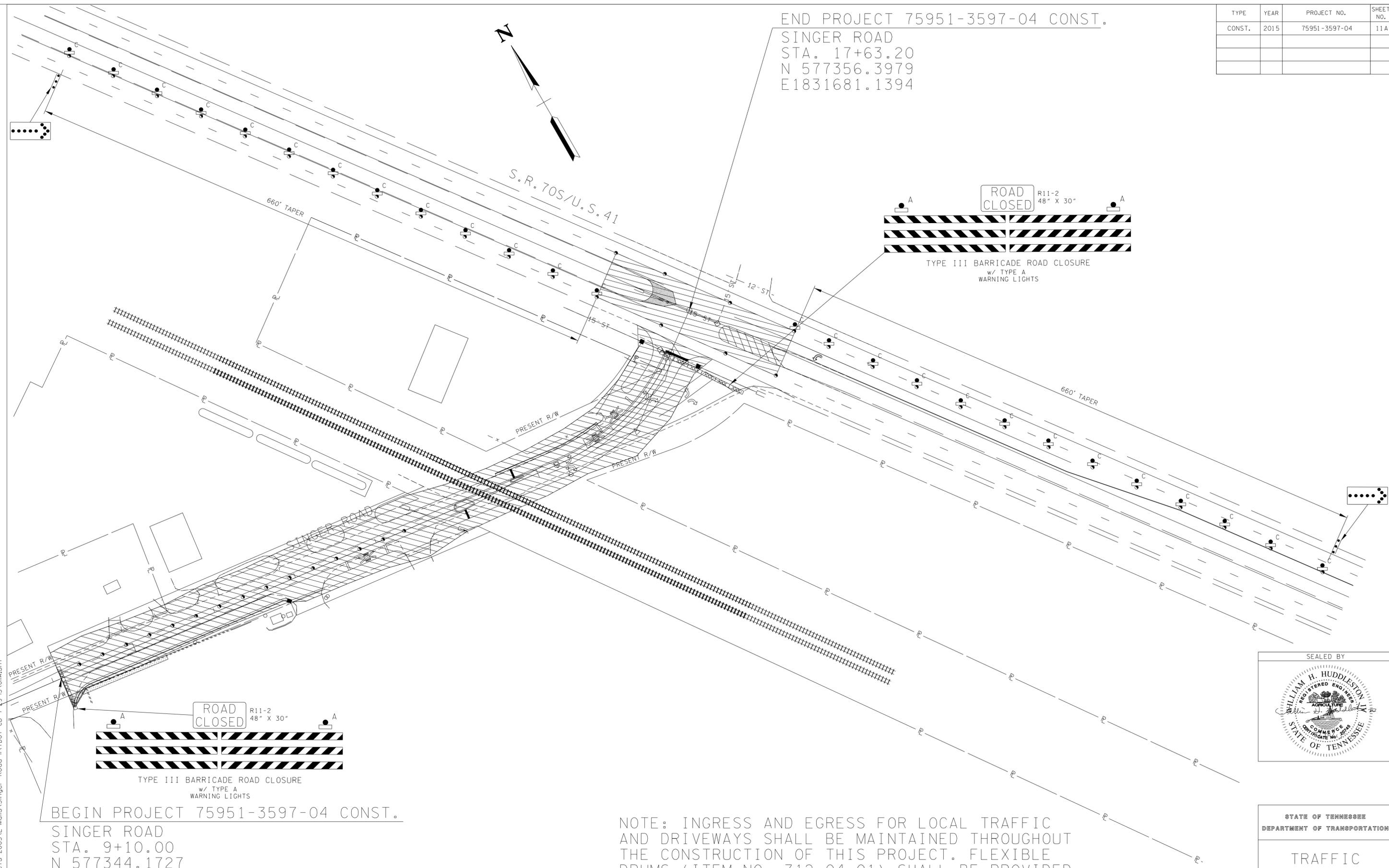
TRAFFIC CONTROL PLAN

SCALE: 1"=400'

8/10/2015 3:04:18 PM C:\Land Projects\2005\E-Mails\Singer_Road\INTD01.GD 7-29-15\011.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	75951-3597-04	11A

END PROJECT 75951-3597-04 CONST.
 SINGER ROAD
 STA. 17+63.20
 N 577356.3979
 E1831681.1394



STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

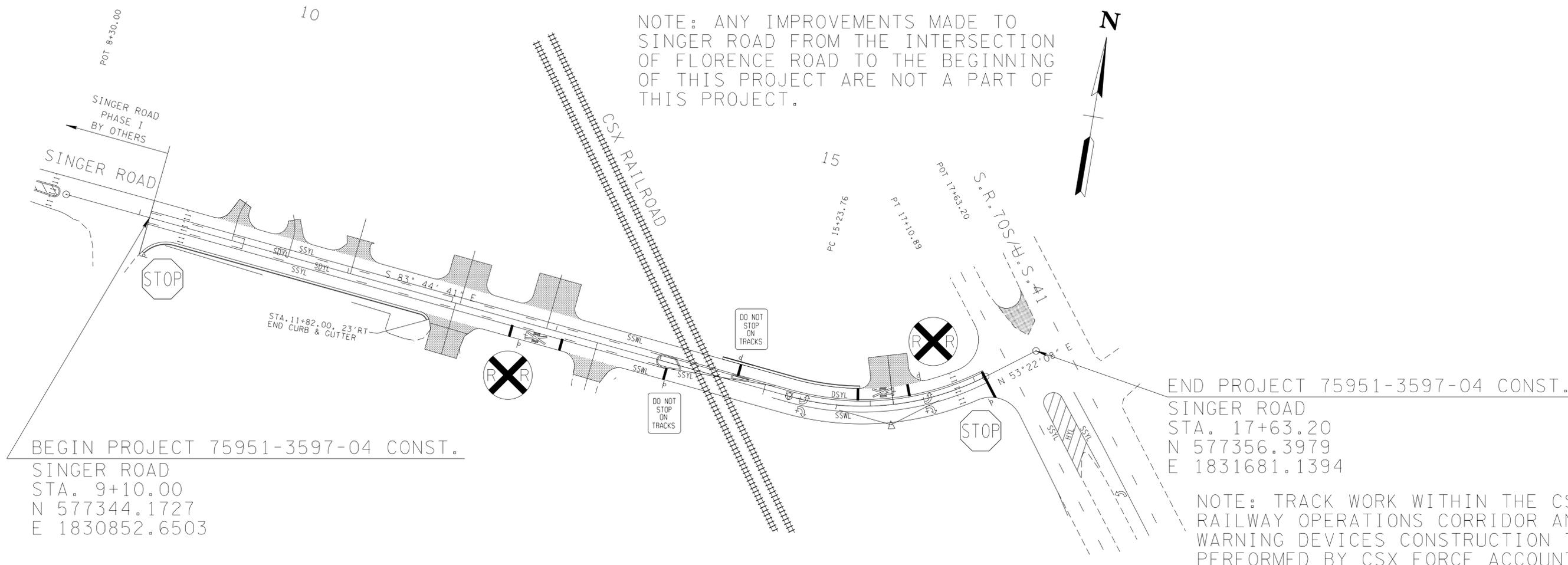
STA. 9+10 TO STA. 17+63.20
 SCALE: 1"=50'

BEGIN PROJECT 75951-3597-04 CONST.
 SINGER ROAD
 STA. 9+10.00
 N 577344.1727
 E 1830852.6503

NOTE: INGRESS AND EGRESS FOR LOCAL TRAFFIC AND DRIVEWAYS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. FLEXIBLE DRUMS (ITEM NO. 712-04.01) SHALL BE PROVIDED AS REQUIRED FOR CHANNELEZATION OF TRAFFIC.

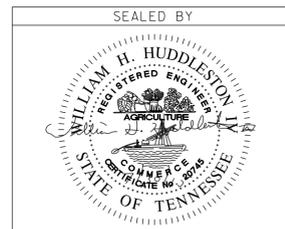
B:\10\2015 3:13:25 PM
 C:\Land Projects 2005\E-Majlis\Singer_Road\INTDOT CD 709-9-15\01A.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	75951-3597-04	12



BEGIN PROJECT 75951-3597-04 CONST.
 SINGER ROAD
 STA. 9+10.00
 N 577344.1727
 E 1830852.6503

8/10/2015 3:45:04 PM C:\Land Projects\2005\E-Molis\Singer_Road\INTDOT_CD_T-29-15\012.sht

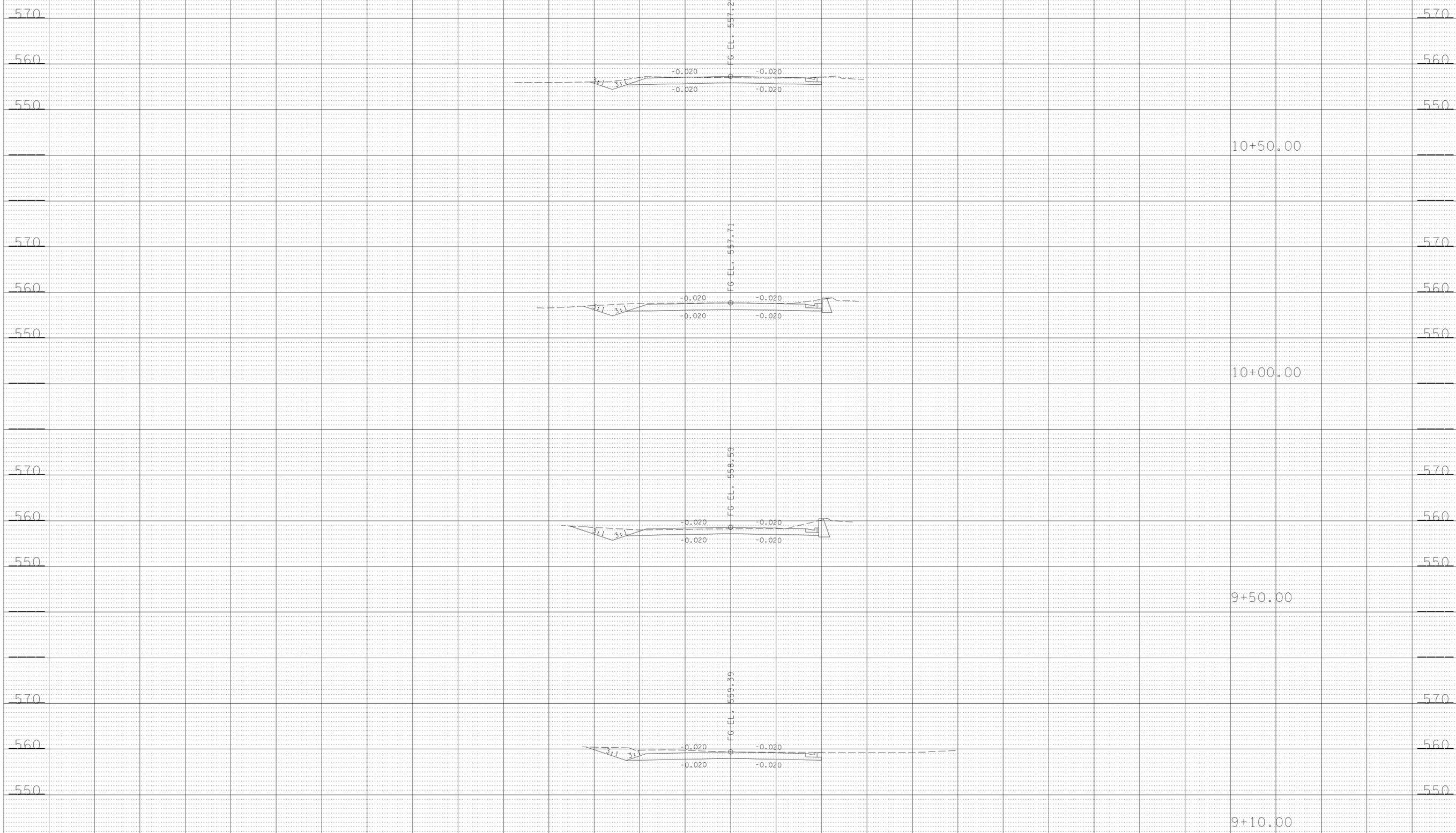


COORDINATES ARE NAD/83(1995). ARE DATUM ADJUSTED BY THE FACTOR OF 1.00007 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN
 STA. 9+10 TO STA. 17+63.20
 SCALE: 1"=50' HORIZ.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	75951-2597-04	9
CONST.	2015	75951-3597-04	13

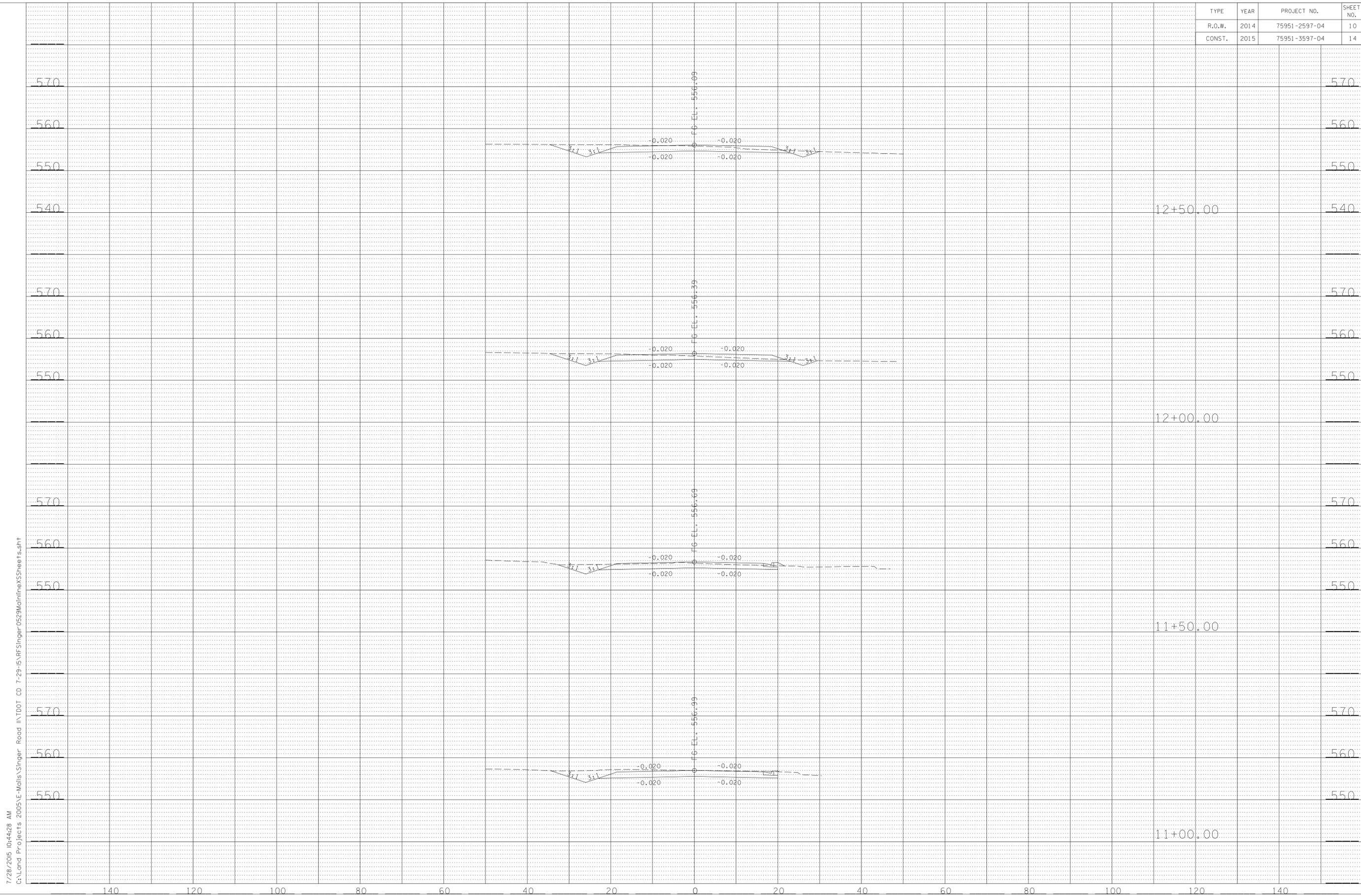


BEGIN STA. 9+10.00
END STA. 10+50.00

7/28/2015 10:43:47 AM
C:\Land Projects 2005\A-Malis\Singer Road\INTDOT_CD_7-29-15\RF\Singer-0529Mainline\SSheets.sht

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

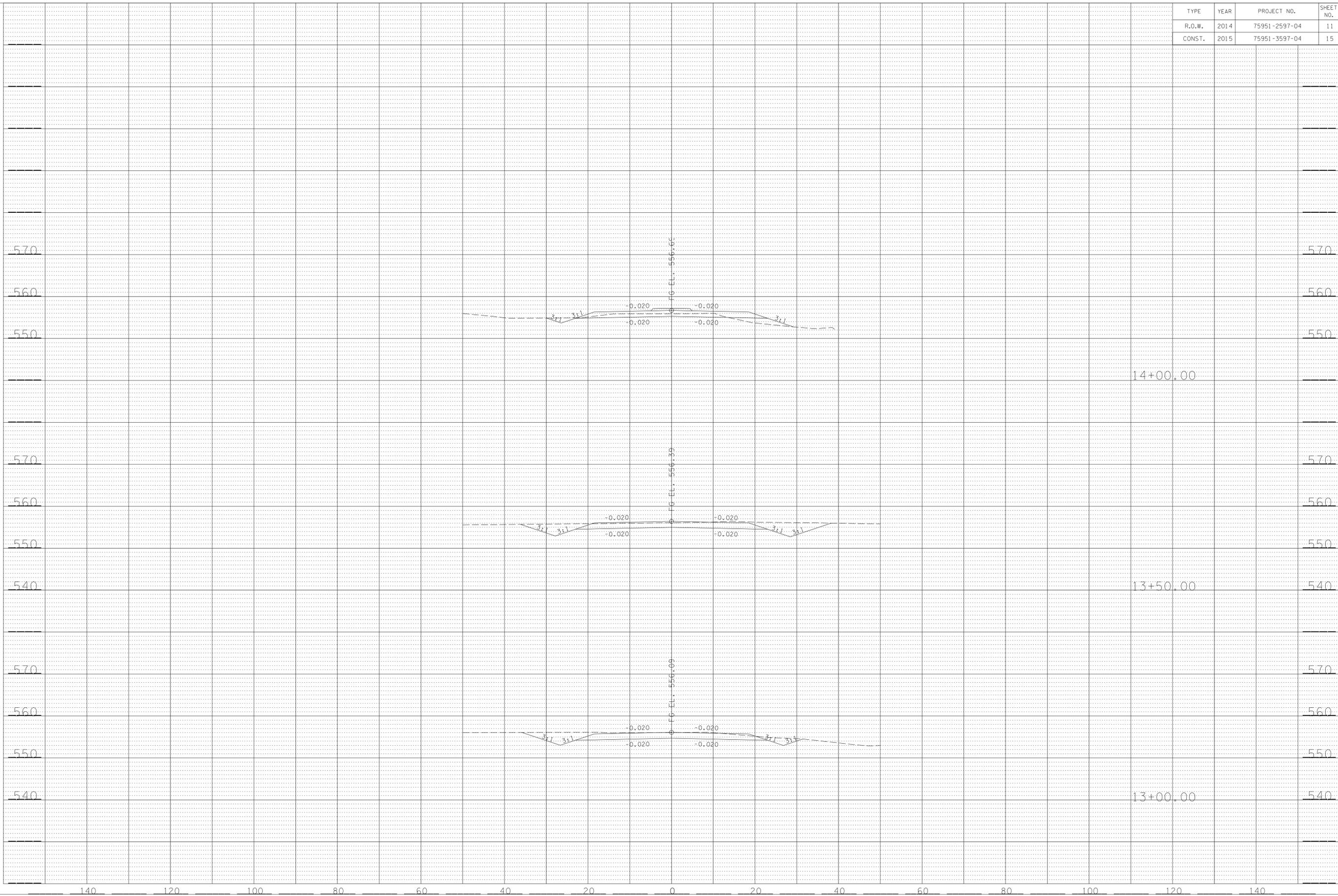
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	75951-2597-04	10
CONST.	2015	75951-3597-04	14



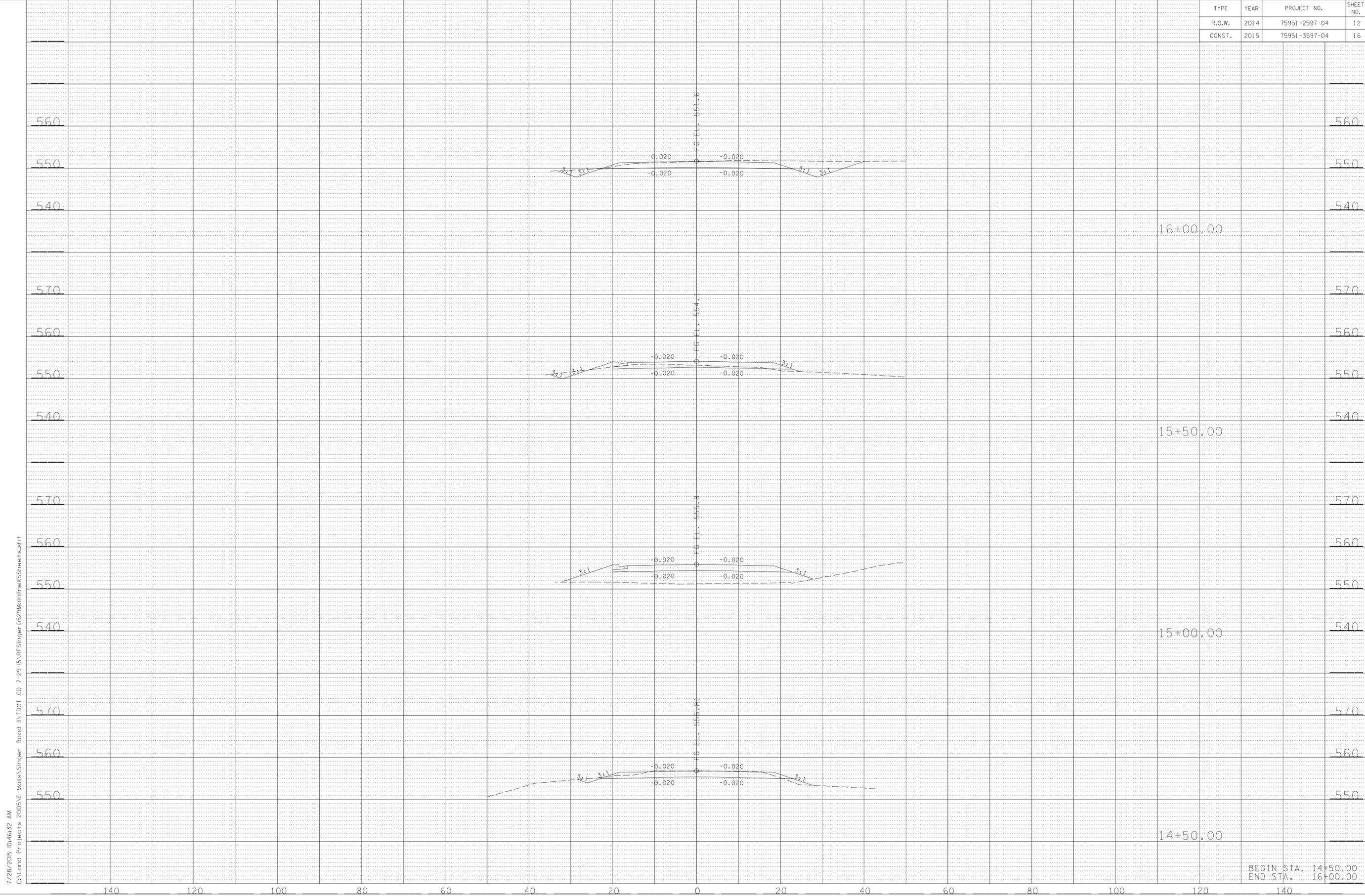
7/28/2015 10:44:28 AM
 C:\Land Projects 2005\E-Mellis\Singer_Road\IN\DOT CD 7-29-15\RF\Singer-0529\Midline\SSheets.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	75951-2597-04	11
CONST.	2015	75951-3597-04	15

7/28/2015 10:45:55 AM C:\Land Projects 2005\A-Mellis\Singer Road\IN\DOT CD 7-29-15\RF\Singer0529\Midline\SSheets.sht



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	75951-2597-04	12
CONST.	2015	75951-3597-04	16

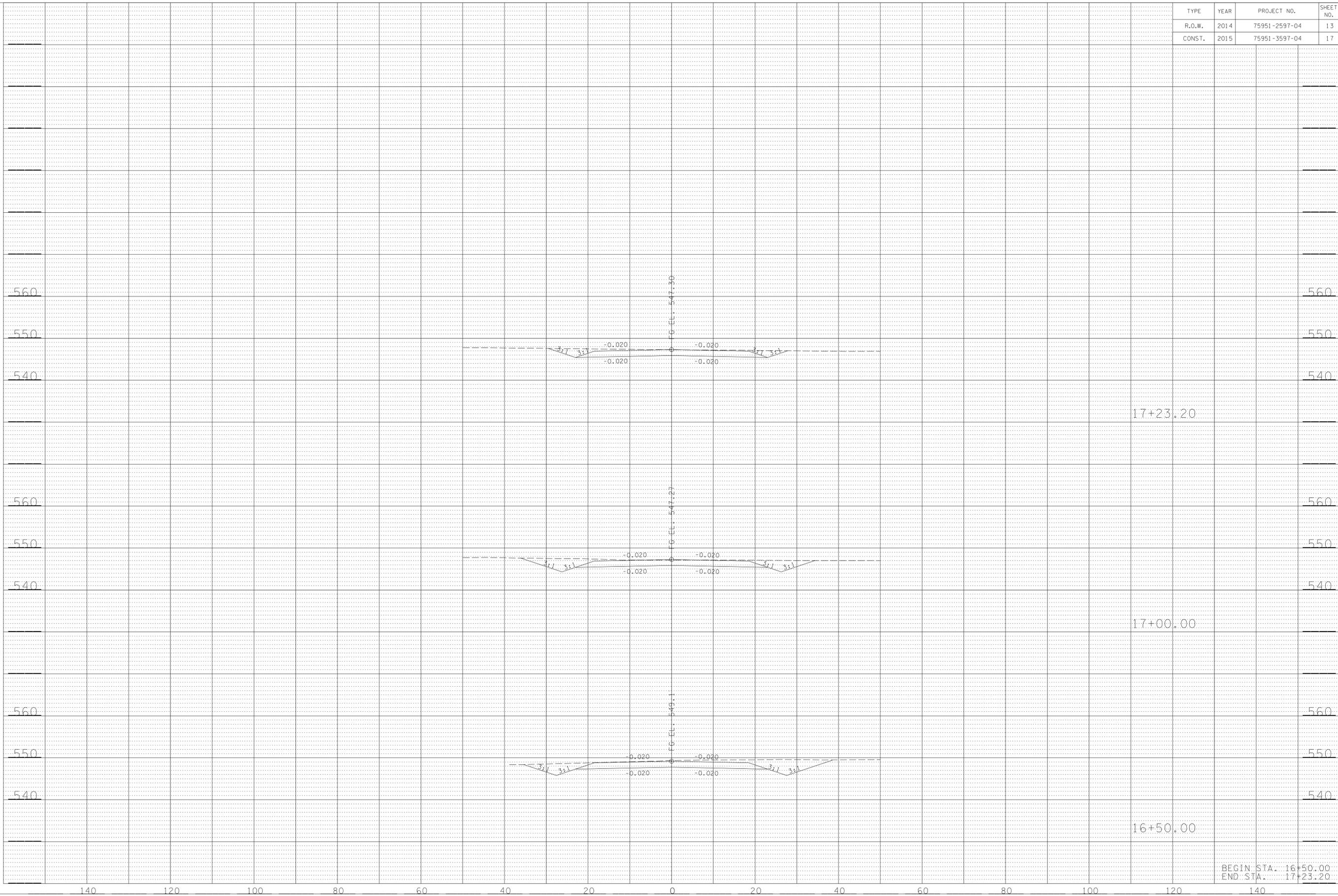


7/28/2015 10:46:32 AM
 C:\Land Projects 2005\E-Mellis\Singer Road\INTDOT CD 7-29-15\RF\Singer-0529\Midline\SSheets.sht

BEGIN STA. 14+50.00
 END STA. 16+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	75951-2597-04	13
CONST.	2015	75951-3597-04	17

7/28/2015 10:47:04 AM
 C:\Land Projects 2005\E-Mailis\Singer_Road\IN\DOT CD 7-29-15\RF\Singer-0529\Moimline\SSheets.sht



BEGIN STA. 16+50.00
 END STA. 17+23.20