TENN.	YEAR	SHEET NO.
	2013	1
FED. AID PROJ. NO.	NHTSA-HE-61(28)	
STATE PROJ. NO.	97001-2238-04	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

ANDERSON COUNTY

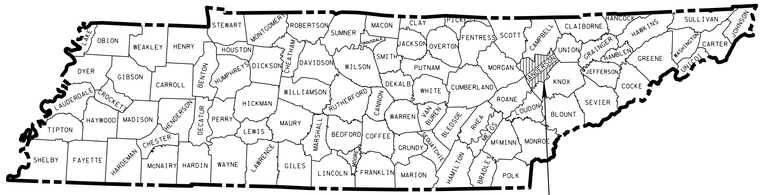
S.R. 61: FROM L.M. 0.5 TO L.M. 2.40, PHASE II SAFETY MODIFICATIONS

R.O.W.

STATE HIGHWAY NO. 61 F.A.H.S. NO. NA

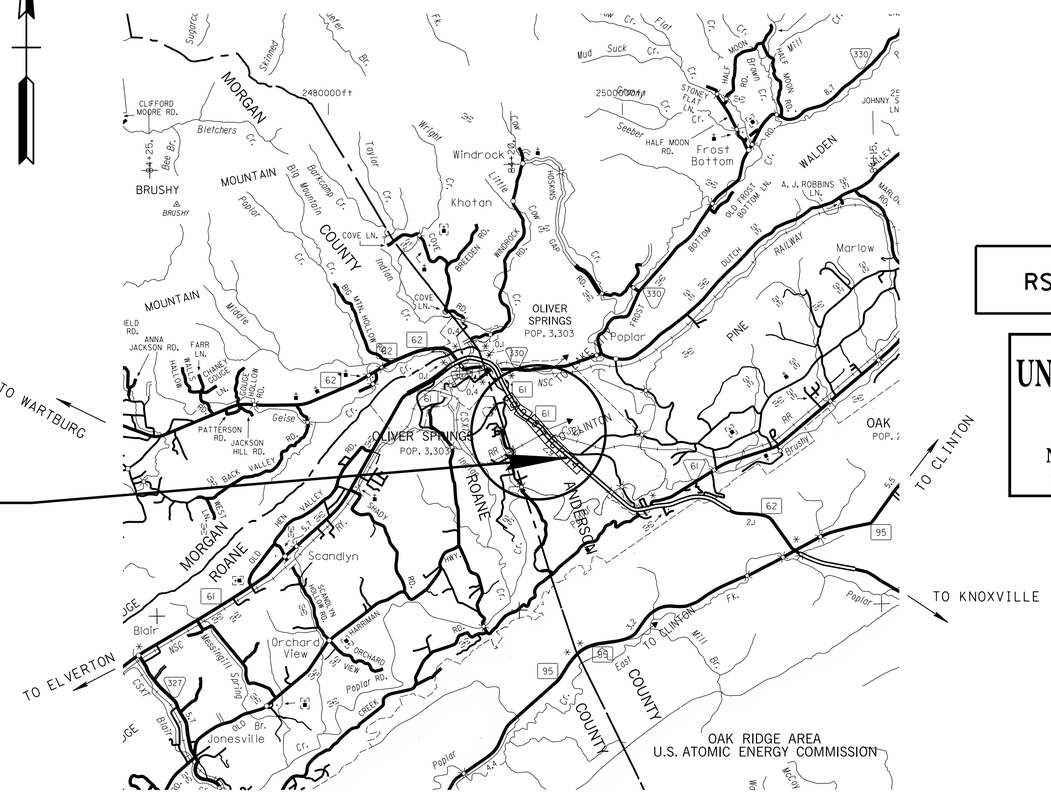
Index Of Sheets (R.O.W.)

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-2A	TYPICAL SECTIONS
3	R.O.W. AND UTILITY NOTES
3A	PROPERTY MAP AND ACQUISITION TABLE
4-10	PRESENT LAYOUTS
4A	PROPOSED LAYOUT
4B	PROPOSED PROFILE
5A	R.O.W. DETAILS
5B	PROPOSED LAYOUT
5C	PROPOSED PROFILE
6A-10A	PROPOSED LAYOUTS
6B-10B	PROPOSED PROFILES
11	PROFILES OF BUSINESS ENTRANCES
12	EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) NOTES
12A-12N	EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS
13-29	ROADWAY X-SECTIONS



EQUATION	
DESCRIPTION	NET EFFECT ON ENUMERATION
STA. 87 +03.95 BK. = STA. 86 +64.00 AH.	-39.95
TOTAL	-39.95

N



SCALE: 1"= 5280'

97001-2238-04
BEG. PROJECT NO. NHTSA-HE-61(28) (R.O.W.)
STA. 43+62.18 (L.M. 0.89)
N 624107.7230
E 2461881.5016

END PROJECT NO. NHTSA-HE-61(28) (R.O.W.)
STA. 45+75.00 (L.M. 0.93)
N 623991.4741
E 2462059.9637

RSAR PROJECT - PROJECT OF LIMITED SCOPE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

R.O.W. PLANS

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

DATE:

APPROVED:
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 MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT CIVIL ENGINEERING MANAGER 1 SHANE HESTER

DESIGNER CINDY WILLIAMS CHECKED BY FRANK RAINEAR

P.E. NO. 97001-0238-04

PIN NO. 117247.00

TOTAL PROJECT LENGTH 0.040 MILES

TRAFFIC DATA (RSAR)	
ADT (2013)	19,440
ADT (2033)	21,380
DHV (2033)	2,304
D	55 - 45
T (ADT)	11 %
T (DHV)	3 %
V	45 MPH

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

04-SEP-2013 14:28
C:\Projects\Anderson SR61\ROWPlans\001.sht

Index Of Sheets (CONST.)
SEE SHEET IA

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

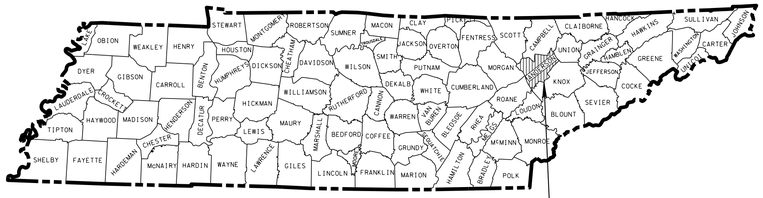
TENN.	YEAR	SHEET NO.
	2014	1
FED. AID PROJ. NO.	NHTSA-HE-61(28)	
STATE PROJ. NO.	97001-3238-04	

ANDERSON COUNTY

S.R. 61: FROM L.M. 0.5 TO L.M. 2.40,
(PHASE II SAFETY MODIFICATIONS)

CONST.

STATE HIGHWAY NO. 61 F.A.H.S. NO. NA



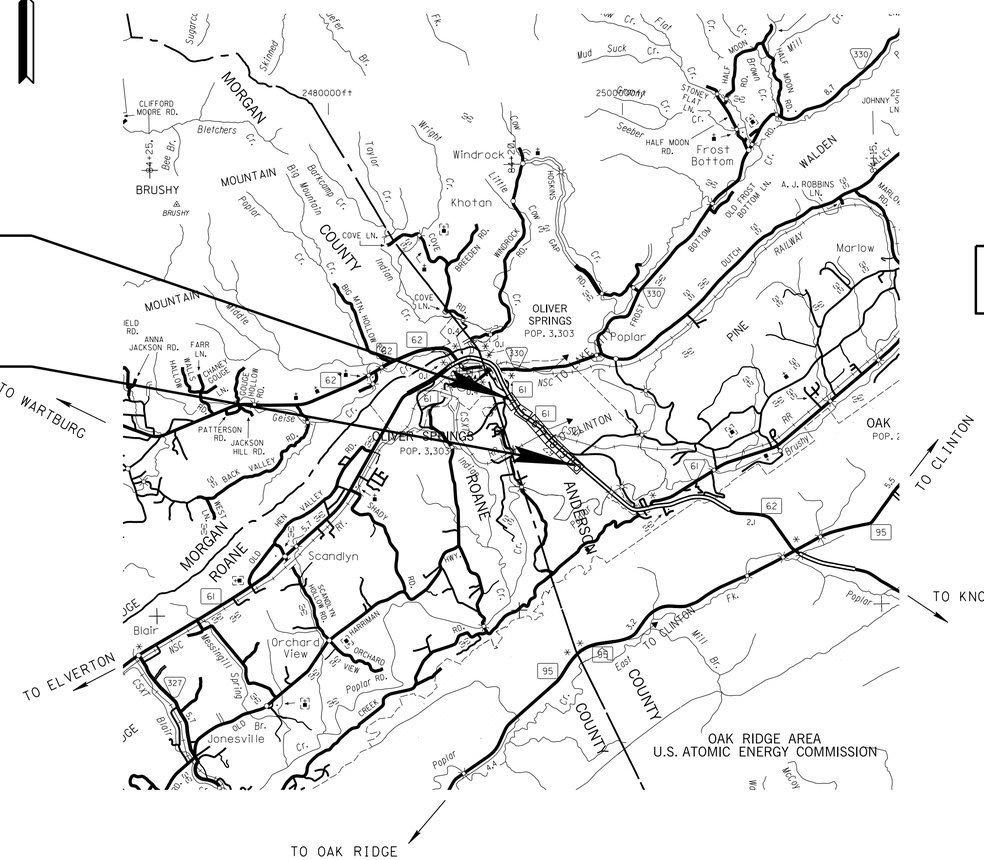
NHTSA-HE-61(28)
PROJ. NO. 97001-3238-04

EQUATION	
DESCRIPTION	NET EFFECT ON ENUMERATION
STA. 87 +03.95 BK. = STA. 86 +64.00 AH.	-39.95
TOTAL	-39.95

N

97001-3238-04
BEG. PROJECT NO. NHTSA-HE-61(28) (CONST.)
STA. 23+16.53 (L.M. 0.50)
N 625682.1505
E 2460585.9193

97001-3238-04
END PROJECT NO. NHTSA-HE-61(28) (CONST.)
STA. 120+41.00 (L.M. 2.34)
N 619163.9298
E 2467725.1801



SCALE: 1"= 5280'

RSAR PROJECT - PROJECT OF LIMITED SCOPE

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY
KATHERINE J. LLOYD
REGISTERED ENGINEER
XVI
AGRICULTURE
COMMERCE
NO. 106422
STATE OF TENNESSEE

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

DATE:

APPROVED:
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 MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT CIVIL ENGINEERING MANAGER 2 JENNIFER LLOYD, P.E.

DESIGNER CINDY WILLIAMS CHECKED BY KHUZAIMA MAHDI

P.E. NO. 97001-1238-04

PIN NO. 117247.00

ROADWAY LENGTH	1.834 MILES
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	1.834 MILES

TRAFFIC DATA (RSAR)	
ADT (2014)	19,440
ADT (2034)	21,380
DHV (2034)	2,304
D	55 - 45
T (ADT)	11 %
T (DHV)	3 %
V	45 MPH

SURVEY: 10/09/12
SURVEY UPDATE: 04/16/13

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

02-JUN-2014 14:11
C:\Projects\Anderson SR61\00Iconst.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHTSA-HE-61(28)	1A

SHEET NAME	SHEET NO.
TITLE SHEET	1
ROADWAY INDEX AND STANDARD DRAWINGS INDEX	1A – 1B
ESTIMATED ROADWAY QUANTITIES	2
ESTIMATED SIGNAL QUANTITIES	2A
TYPICAL SECTIONS AND PAVING SCHEDULE	2B – 2C
GENERAL NOTES AND SPECIAL NOTES	2D – 2F
TABULATED QUANTITIES	2G – 2H
UTILITY NOTES AND R.O.W. NOTES	3
PROPERTY MAP AND RIGHT-OF-WAY ACQUISITION TABLE	3A
PRESENT LAYOUTS	4 - 10
PROPOSED LAYOUT	4A
PROPOSED PROFILE	4B
R.O.W. DETAILS	5A
PROPOSED LAYOUTS	5B
PROPOSED PROFILE	5C
PROPOSED LAYOUTS	6A – 10A
PROPOSED PROFILES	6B - 10B
PROFILES OF BUSINESS ENTRANCES	11
CULVERT SECTION	12
EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) NOTES	13
EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS	13A – 13N
TRAFFIC CONTROL PLANS WITH CONSTRUCTION PHASING NOTES	14 – 14 B
PROPOSED SIGNAL LAYOUT	15
PHASING, TIMING, DETECTOR ASSIGNMENT	15A
ROADWAY CROSS SECTIONS	16 - 32
UTILITIES INDEX, UTILITY OWNERS, AND UTILITY SHEETS	U1-1
STORM WATER POLLUTION PREVENTION PLAN (SWPPP)	S-1

"NO PROJECT COMMITMENTS SHEETS INCLUDED IN THIS SET OF PLANS."

DWG. NO	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS		
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-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
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-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
RD01-S-12	08-01-09	CLEAR ZONE CRITERIA
RD01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD01-SD-5		INTERSECTION SIGHT DISTANCE 4-LANE DIVIDED HIGHWAYS
RD01-SD-7		INTERSECTION SIGHT DISTANCE FOR PASSIVE RAILROAD HIGHWAY GRADE CROSSINGS
RD01-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
RD01-TS-1	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-3A	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIAL HIGHWAYS WITH DEPRESSED MEDIANS
RD01-TS-3C	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIAL HIGHWAYS WITH FLUSH MEDIANS
RD01-TS-6	07-31-13	TYPICAL CURB AND GUTTER SECTIONS WITH SHOULDER
DRAINAGE - CULVERTS AND ENDWALL		
D-PB-1	01-02-13	STANDARD DETAILS CLASS "B" BEDDING AND CULVERT EXCAVATION
D-PE-18A	06-14-13	18" CONCRETE ENDWALL CROSS DRAIN
D-PE-18B		18" CONCRETE ENDWALL CROSS DRAIN
D-PE-99		PIPE GRATE & SKEWED CONNECTION DETAILS FOR "U" ENDWALLSCONCRRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-SEW-1A	01-10-13	SIDE DRAIN CONCRRETE ENDWALL WITH STEEL PIPE GRATE
DRAINAGE-CATCH BASINS AND MANHOLES		
D-CB-12B	09-24-12	STANDARD RECTANGULAR BRICK NO. 12 CATCH BASIN
D-CB-12LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 12LP CATCH BASIN
D-CB-12P	09-24-12	STANDARD PRECAST RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12RA	09-24-12	STANDARD PRECAST 48" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RB	09-24-12	STANDARD PRECAST 60" AND 72" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RC	09-24-12	STANDARD PRECAST 84" THRU 120" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12S	09-24-12	STANDARD RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12SB	09-24-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SC	09-24-12	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SD	09-24-12	STANDARD 7' X 7' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SE	08-01-12	STANDARD 9' X 9' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-38RB	09-24-12	STANDARD PRECAST CIRCULAR NO. 38 CATCH BASIN
D-CB-38S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-38SB	09-24-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-38SC	09-24-12	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-99		MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES
D-CBB-12A	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & NONMOUNTABLE INLET DETAILS FOR NOS. 10, 12, 14, 16, & 17 TYPE CATCH BASINS
ROADWAY AND PAVEMENT APPURTENANCES		
RP-D-15	07-15-08	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-D-16	07-15-08	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
RP-DHO-1	10-26-93	MEDIAN OPENINGS ON 4-LANE DIVIDED HIGHWAY
RP-H-6	04-13-11	MEDIAN CROSSING
RP-I-5	12-18-96	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
RP-J-1	10-26-00	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RP-J-3	10-26-00	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RP-J-5	07-01-01	TYPICAL ACCELERATION AND DECELERATION LANE JOINT TYPES AND SPACING FOR CONCRETE RAMPS
RP-J-7	01-30-12	CONCRETE RAMP JOINT TYPES AND SPACING
RP-J-9	02-02-12	CONTRACTION AND CONSTRUCTION JOINTS FOR CONCRETE PAVEMENT
RP-MC-2	02-28-02	STANDARD 6" SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS
SAFETY APPURTENANCES AND FENCE		
S-CZ-1		CLEAR ZONE CRITERIA
S-PL-1		SAFETY PLAN AT ROADSIDE HAZARDS
S-GR31-1		W-BEAM GUARDRAIL
S-GR31-2		MEDIAN DIVIDER GUARDRAIL
S-GRS-3		SPECIAL CASE GUARDRAIL FOOTING
S-GRT-2		TYPE 38 GUARDRAIL TERMINAL
S-GRT-3		TYPE 21 GUARDRAIL TERMINAL
S-GRT-3D		TYPE 21 GUARDRAIL TERMINAL (DETAILS)
S-GRT-3P		EARTH PAD FOR TYPE 21 TERMINAL
S-GRA-3		GUARDRAIL ANCHOR FOR TYPE 12, 13 AND IN-LINE TERMINALS

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

02-JUN-2014 14:11
C:\Projects\Anderson SR61\001a.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHTSA-HE-61(28)	1B

STANDARD ROADWAY DRAWINGS

TRAFFIC CONTROL APPURTENANCES

DWG. NO	REV.	DESCRIPTION
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-M-1	11-01-11	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	01-15-13	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	09-19-91	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	11-01-11	STANDARD INTERSECTION PAVEMENT MARKINGS
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	11-01-11	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
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
T-RR-4	11-01-11	STANDARD DRAWING FOR TYPICAL CURB & GUTTER PLAN FOR RAILROAD-HIGHWAY CROSSING WITH OR WITHOUT GATES
T-RR-5	11-01-11	STANDARD DRAWING FOR RAILROAD-HIGHWAY CROSSING SIGNAL TYPICAL CANTILEVER SPAN
T-RR-6		TYPICAL SIGNING AND MARKING AT PASSIVE RAILROAD HIGHWAY GRADE CROSSINGS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-16	11-01-11	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-19-13	STANDARD STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS
T-SG-2	07-29-04	LOOP LEAD-INS, CONDUIT AND PULL BOXES
T-SG-3	11-11-04	STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS
T-SG-4		SPAN WIRE AND MESSENGER CABLE DETAILS
T-SG-5	07-29-04	CONTROLLER CABINET DETAILS
T-SG-7	11-01-11	SIGNAL HEAD ASSEMBLIES AND PEDESTRIAN PUSH BUTTON SIGNS
T-SG-7A	11-01-11	TYPICAL SIGNAL HEAD PLACEMENT
T-SG-8	11-01-11	STRAIN POLE DETAILS FOR SPAN MOUNTED SIGNALS
T-SG-9A		MISCELLANEOUS SIGNAL DETAILS
T-SG-10	05-06-13	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS
T-SG-11	07-29-04	MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION
T-SG-12	11-01-11	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-13-09	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-15	04-02-12	INTERIOR LANE CLOSURE ON FREEWAYS OR EXPRESSWAYS
T-WZ-16	03-13-09	LANE SHIFT ON DIVIDED HIGHWAYS AND FREEWAYS
T-WZ-18	03-13-09	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-37	08-01-12	SEDIMENT TUBE
EC-STR-41		CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A		CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

12-JUN-2014 14:12
C:\Projects\Anderson SR6\001B.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHTSA-HE-61(28)	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
	202-02.21	REMOVAL OF PIPE (15" CMP, STA. 120+30.00+/-)	L.F.	70
	202-02.22	REMOVAL OF PIPE (18" CMP, STA. 108+60.00+/-)	L.F.	122
	202-02.23	REMOVAL OF PIPE (18" CMP, STA. 111+00.00+/-)	L.F.	37
	202-02.24	REMOVAL OF PIPE (18" CMP, STA. 114+90.00+/-)	L.F.	46
	202-02.25	REMOVAL OF PIPE (12" CMP, STA. 117+12.00+/-)	L.F.	40
	202-02.26	REMOVAL OF PIPE (18" CMP, STA. 118+00.00+/-)	L.F.	37
	202-02.27	REMOVAL OF PIPE (15" CMP, STA. 109+10.00+/-)	L.F.	62
19	202-02.28	REMOVAL OF PIPE (15" CMP, RT. STA. 109+00.00+/-)	L.F.	57
	202-08.10	REMOVAL OF CURB (6-30 CURB & GUTTER)	L.F.	6658
	202-08.28	REMOVAL OF MEDIAN BARRIER (STA. 24+11 TO STA. 25+61)	L.F.	150
	202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	488
14,16	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	2534
	203-06	WATER	M.G.	18
	209-05	SEDIMENT REMOVAL	C.Y.	1097
	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	4050
1	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	6
	209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	6
3	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	2061
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	672
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	366
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	4
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	12
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	1
	407-20.05	SAW CUTTING ASPHALT PAVEMENT	L.F.	50
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	30
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	215
	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	333
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	154
	611-07.31	18IN ENDWALL (SIDE DRAIN)	EACH	1
	611-09.01	ADJUSTMENT OF EXISTING CATCHBASIN	EACH	2
	611-12.01	CATCH BASINS, TYPE 12, 0' - 4' DEPTH	EACH	5
	611-38.01	CATCH BASINS, TYPE 38, 0' - 4' DEPTH	EACH	1
	701-03	CONCRETE MEDIAN PAVEMENT	C.Y.	767
	702-01	CONCRETE CURB	C.Y.	268
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	452
	705-04.04	GUARDRAIL TERMINAL (TYPE 21)	EACH	1
	705-04.05	GUARDRAIL TERMINAL (TYPE-IN-LINE)	EACH	1
	705-08.13	PERMANENT IMPACT ATTENUATOR NCHRP350 TL-3	EACH	1
	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	4
5	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	260

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	712-01	TRAFFIC CONTROL	LS	1
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	800
	712-04.02	FLEXIBLE DRUMS (CHANNELIZATION)	EACH	204
	712-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	75
	712-06	SIGNS (CONSTRUCTION)	S.F.	574
	712-08.03	ARROW BOARD (TYPE C)	EACH	2
6	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
	713-16.05	RAILROAD CROSS-BUCK SIGN & SUPPORT	EACH	2
	713-16.09	RAILROAD ADVANCE WARNING SIGN AND SUPPORT	EACH	2
7	713-16.20	SIGNS (R1-1 W/1-U3 SUPPORT)	EACH	1
8	713-16.21	SIGNS (S1-1 & W16-7P W/1-P8 SUPPORT)	EACH	2
9	713-16.22	SIGNS (W10-1 W/1-P8 SUPPORT)	EACH	2
10	713-16.23	SIGNS (W10-2L W/1-P8 SUPPORT)	EACH	1
11	713-16.24	SIGNS (W10-2R W/1-P8 SUPPORT)	EACH	1
12	713-16.25	SIGNS (W10-4L W/1-P8 SUPPORT)	EACH	1
13	713-16.26	SIGNS (W10-4R W/1-P8 SUPPORT)	EACH	1
17	713-16.27	SIGNS (W1-8 W/1-U3 SUPPORT)	EACH	2
	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	44
	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	164
4	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	16
	716-02.09	PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	L.F.	89
	716-02.12	PLASTIC PAVEMENT MARKING (8IN LINE)	L.M.	1
4	716-03.02	PLASTIC WORD PAVEMENT MARKING (RXR)	EACH	4
4	716-04.01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	2
4	716-04.14	PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH	1
	716-08.03	REMOVAL OF PAVEMENT MARKING (CROSS-WALK)	L.F.	350
	716-08.04	REMOVAL OF PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.	44
	716-08.05	REMOVAL OF PAVEMENT MARKING (STOP LINE)	L.F	110
	716-08.06	REMOVAL OF PAVEMENT MARKING (TURN LANE ARROW)	EACH	4
	716-08.11	REMOVAL OF WORD PAVEMENT MARKING (RXR)	EACH	2
	716-12.01	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE)	L.M.	2.5
4	716-12.03	ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE)	L.F.	295
	716-12.04	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN DOTTED LINE)	L.F.	639
	717-01	MOBILIZATION	LS	1
18	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	349
1,2	740-11.04	TEMPORARY SEDIMENT TUBE 20IN (EROSION CONTROL)	L.F.	500
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	3
15	801-03	WATER (SEEDING & SODDING)	M.G.	4
2	803-01	SODDING (NEW SOD)	S.Y.	293

FOOTNOTES

1. SEE SUBSECTION 209.07 OF THE STD. SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
2. TO BE USED AS DIRECTED BY THE ENGINEER.
3. INCLUDES 341 TONS FOR SHOULDERS AND 72 TONS FOR BUSINESS ENTRANCES.
4. THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME PRICE BID FOR THERMOPLASTIC.
5. 100 TONS FOR TEMPORARY CONSTRUCTION EXITS AND 30 TONS FOR CLEANED OUT DITCH. AND 130 TONS FOR SPECIAL DITCH RT. STA. 109+33.62 TO RT. STA. 113+50.00.
6. REMOVE SIGN AND SUPPORT ON FIVE+/- (5+/-) SIGNS (NO FOOTINGS ON THESE SIGNS) OR AS DIRECTED BY THE ENGINEER.
7. INCLUDES ONE R1-1(36" X 36") W/ONE P8 SUPPORT H=12'-6+/-.
8. INCLUDES ONE S1-1(36" X 36") W/ONE W16-7P (24" X 12") W/ONE P8 SUPPORT H=13'-6+/-.
9. INCLUDES ONE W10-1 (36" DIA.) W/ONE P8 SUPPORT H=12'-6+/-.
10. INCLUDES ONE W10-2L (36" X 36") W/ONE P8 SUPPORT H=13'-6+/-.
11. INCLUDES ONE W10-2R (36" X 36") W/ONE P8 SUPPORT H=13'-6+/-.
12. INCLUDES ONE W10-4L (36" X 36") W/ONE P8 SUPPORT H=13'-6+/-.
13. INCLUDES ONE W10-4R (36" X 36") W/ONE P8 SUPPORT H=13'-6+/-.
14. INCLUDES 14 C.Y. FOR TEMP. CONSTRUCTION EXITS, INCLUDES 50 C.Y. FOR DITCH CLEAN OUT LT. STA. 107+50.00 TO LT. STA. 109+50.00 AND CULVERT CLEANOUT LT. STA. 107+50.00.
15. INCLUDES 1 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
16. REFER TO SPECIAL NOTES.
17. INCLUDES ONE W1-8 (18" X 24") W/ONE U3 SUPPORT H=11'-6+/-.
18. INCLUDES 172 S.Y. FOR TEMP. CONSTRUCTION EXITS AND 177 S.Y. FOR LINING CLEANED OUT DITCH LT. STA. 107+50.00 TO LT. STA. 109+50.00.
19. INCLUDES REMOVAL OF EXISTING CATCH BASINS RT. STA. 108+66.17 AND RT. STA. 109+33.62.

UNOFFICIAL SET
NOT FOR BIDDING

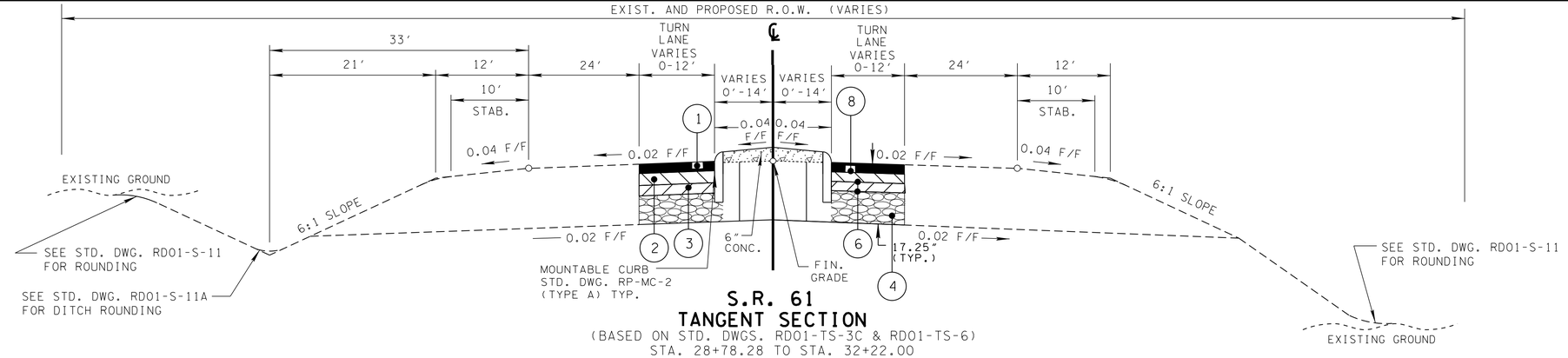
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

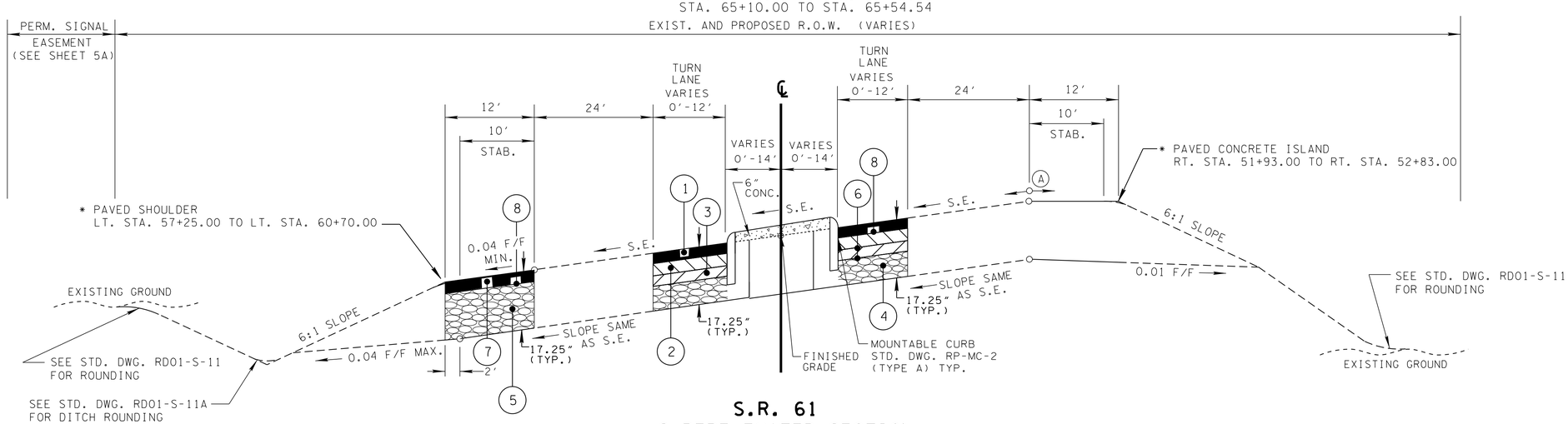
2-JUN-2014 14:13
C:\Projects\Anderson SR61\002.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	2
CONST.	2014	NHTSA-HE-61(28)	2B



S.R. 61
TANGENT SECTION

(BASED ON STD. DWGS. RD01-TS-3C & RD01-TS-6)
STA. 28+78.28 TO STA. 32+22.00
STA. 65+10.00 TO STA. 65+54.54



S.R. 61
SUPERELEVATED SECTION

(BASED ON STD. DWGS. RD01-TS-3C & RD01-TS-6)

STA. 26+50.00 TO STA. 28+78.28
STA. 36+85.00 TO STA. 39+85.00
STA. 43+50.00 TO STA. 45+75.00
STA. 49+35.00 TO STA. 52+35.00
STA. 53+25.00 TO STA. 57+53.00
STA. 58+03.00 TO STA. 60+53.00
STA. 65+54.54 TO STA. 67+00.00
STA. 67+52.00 TO STA. 69+00.00

(A) THE SLOPES OF THE SHOULDER AND ROADWAY PAVEMENT SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 0.07.

UNOFFICIAL SET
NOT FOR BIDDING

PROPOSED PAVEMENT SCHEDULE

(1) SURFACE @ 1.25" THICK (APPROX. 133± LBS./S.Y.) 411-02.10 ASPHALTIC CONCRETE SURFACE MIX (PG70-22) GRADING "D"	(5) MINERAL AGGREGATE @ 15.75" THICK (SHOULDERS) 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"
(2) BINDER @ 2.00" THICK (APPROX. 226± LBS/S.Y.) 307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "B-M2"	(6) PRIME COAT 402-01 BITUMINOUS MATERIAL FOR PRIME COAT @ 0.35 GAL/S.Y. 402-02 AGGREGATE FOR COVER MATERIAL (PC) @ 12 LBS/S.Y.
(3) BLACK BASE @ 4.00" THICK (APPROX. 452± LBS./S.Y.) 307-02.01 ASPHALT CONCRETE MIX (PG70-22)(BPMB-HM) GRADING "A"	(7) SURFACE @ 1.50" THICK (APPROX. 155± LBS./S.Y.) 411-01.07 ASPHALTIC CONCRETE SURFACE MIX (PG64-22) GRADING "E" (SHOULDERS)
(4) MINERAL AGGREGATE @ 10" THICK 303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING "D"	(8) TACK COAT (0.07 GAL/SQ YD.) 403-01 BITUMINOUS MATERIAL FOR TACK COAT

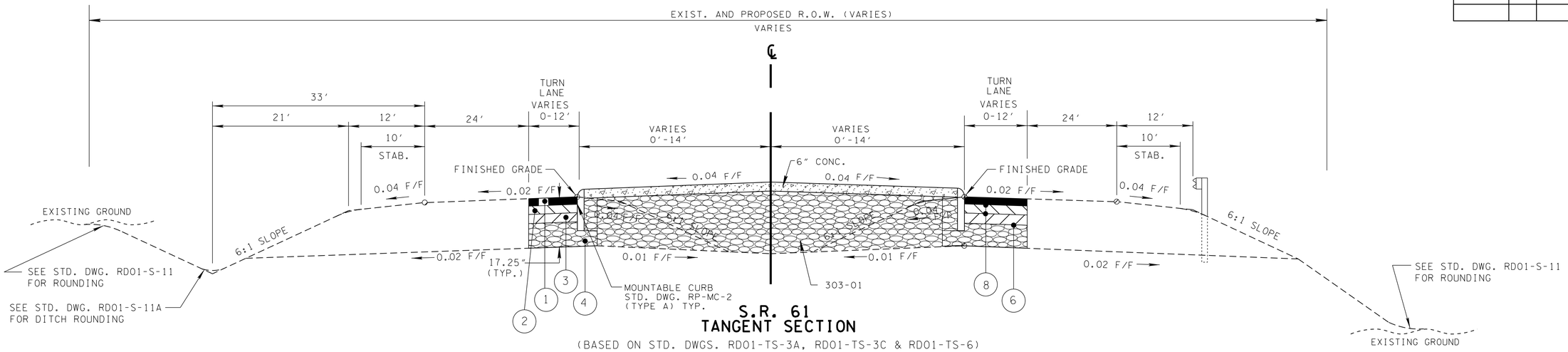
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND PAVEMENT SCHEDULE
NOT TO SCALE

2-JUN-2014 14:4
C:\Projects\Anderson SR61\002b.sht

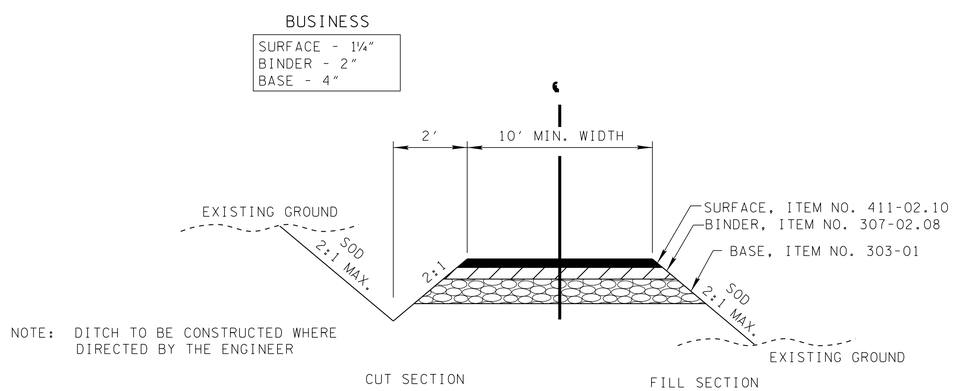
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	2A
CONST.	2014	NHTSA-HE-61(28)	2C



S.R. 61
TANGENT SECTION

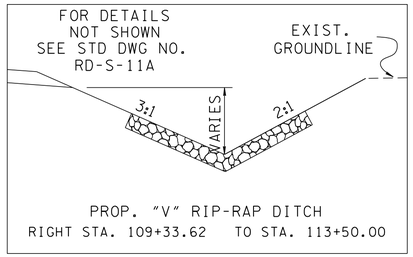
(BASED ON STD. DWGS. RD01-TS-3A, RD01-TS-3C & RD01-TS-6)

STA. 109+41.00 TO STA. 117+92.00
STA. 118+27.50 TO STA. 120+41.00



NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER

TYPICAL SECTION
PRIVATE BUSINESS ENTRANCE



PROP. "V" RIP-RAP DITCH
RIGHT STA. 109+33.62 TO STA. 113+50.00

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

NOT TO SCALE

2-JUN-2014 14:14
C:\Projects\Anderson SR61\002C.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHTSA-HE-61(28)	2D

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE 0F 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

(1) 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.

GUARDRAIL

(1) THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

DRAINAGE

(1) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST 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.

(2) EXCAVATION FOR PIPE CULVERT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE (PIPE CULVERTS, STORM SEWERS, CONDUITS, ALL OTHER CULVERTS AND MINOR STRUCTURES).

UTILITIES (SEE SHEET NO. 3)

MISCELLANEOUS

(1) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES WHERE AND AS DIRECTED BY THE ENGINEER.

(2) 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

RIGHT - OF – WAY (SEE SHEET NO. 3)

PAVEMENT MARKINGS

PAVEMENT

(1) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.01, ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

PAVING

(1) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.

SIGNING

(1) AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.

(2) ALL SIGNS MARKED "TO BE REMOVED" ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.

(3) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.

(4) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS.

SIGNALIZATION

(1) EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730.

(2) SALVAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF THE CITY OF OLIVER SPRINGS AND SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICKUP BY THE CITY OF OLIVER SPRINGS.

(3) IF RESURFACING IS INCLUDED IN THE PROJECT, SIGNAL DETECTION LOOPS SHALL BE INSTALLED BEFORE THE FINAL SURFACE IS APPLIED.

(4) ANY SIGNAL HEADS, WHEN VISIBLE TO DRIVERS BUT NOT OPERATIONAL, SHALL BE COMPLETELY COVERED.

(5) THE PROJECT ENGINEER SHALL NOTIFY THE LOCAL GOVERNMENTAL AGENCY RESPONSIBLE FOR TRAFFIC CONTROL MAINTENANCE AT LEAST ONE DAY IN ADVANCE OF THE COLD PLANING ACTIVITY AT SIGNALIZED INTERSECTIONS WHERE DETECTOR LOOPS ARE ON THE PAVEMENT. THE MAINTAINING AGENCY WILL THEN BE RESPONSIBLE FOR DISCONNECTING THE LOOP DETECTORS AND MAKING ANY NECESSARY TIMING ADJUSTMENTS IN THE SIGNAL CONTROLLER PRIOR TO THE CONSTRUCTION.

(6) LOOPS SHALL BE INSTALLED IN THE LEVELING COURSE IF A LEVELING COURSE IS PROVIDED.

(7) LOOP REPLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 730 OF THE STANDARD SPECIFICATIONS.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(1) 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.

(2) 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.

(3) 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.

(4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

(5) 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.

(6) 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.

EROSION PREVENTION AND SEDIMENT CONTROL

DISTURBED AREA

(1) AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

(2) PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 15 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS INSTALLED.

(3) CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

(4) ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS.

(5) CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION.

(6) NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT. OFF-SITE BORROW OR WASTE AREAS ARE TO BE INCLUDED IN THE TOTAL DISTURBED AREA IF THE BORROW OR WASTE AREA IS EXCLUSIVE TO THE PROJECT PER TDOT'S WASTE AND BORROW MANUAL.

SEDIMENT CONTROL

(7) EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

(8) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

12-JUN-2014 14:14
C:\Projects\Anderson SR61\002D.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHTSA-HE-61(28)	2E

GENERAL NOTES (CONT.)

SEDIMENT CONTROL (CONT.)

(9) WATER PUMPED FROM WORK AREAS AND EXCAVATION MUST BE HELD IN SETTLING BASINS OR TREATED BY FILTRATION OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE INTO SURFACE WATERS. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED IN THE EPSC PLANS. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 20 FEET FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL- VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. DISCHARGES FROM BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. DISCHARGES MUST NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITH THE RECEIVING STREAM.

(10) CHECK DAMS SHALL BE USED WHERE RUNOFF IS CONCENTRATED. CLEAN ROCK, BRUSH, GABION, OR SANDBAG CHECK DAMS SHALL BE PROPERLY CONSTRUCTED TO REDUCE VELOCITY AND CONTROL EROSION.

(11) FOR AN OUTFALL IN A DRAINAGE AREA OF 10 ACRES OR MORE, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

(12) IF PERMANENT OR TEMPORARY VEGETATION IS TO BE USED AS AN EPSC MEASURE, THEN THE TIMING OF PLANTING OF VEGETATION SHALL BE SHOWN IN THE SWPPP. DELAYING PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.

(13) OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ACCESS (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED, AS NEEDED, TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.

(14) TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REPLACED AT THE END OF THE WORKDAY.

INSPECTION, MAINTENANCE, REPAIR

(15) EPSC CONTROLS WILL BE MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES.

(16) INSPECTION, REPAIR, AND MAINTENANCE OF EPSC MEASURES/STRUCTURES IS TO BE PERFORMED ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S OWN EXPENSE.

(17) SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND BE TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE INTO WATERS OF THE STATE/U.S. COST FOR THIS TREATMENT IS TO BE INCLUDED IN PRICE BID FOR ITEM NO. 209-05 SEDIMENT REMOVAL, C.Y.

(18) THE CONTRACTOR SHALL INSTALL A RAIN GAUGE EVERY LINEAR MILE AT ALL SITES WHERE CLEARING, GRUBBING, EXCAVATION, GRADING CUTTING OR FILLING IS BEING ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED. IF THE PROJECT LENGTH IS LESS THAN ONE LINEAR MILE, ONE RAIN GAUGE SHALL BE INSTALLED AT THE CENTER OF THE PROJECT OR AS INDICATED BY THE TDOT EPSC INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT EACH GAUGE IS MAINTAINED IN GOOD WORKING CONDITION. TDOT AND/OR THE CONTRACTOR SHALL RECORD DAILY PRECIPITATION AND FORECASTED PERCENTAGE OF PRECIPITATION IN DETAILED RECORDS OF RAINFALL EVENTS INCLUDING DATES, AMOUNTS OF RAINFALL PER GAUGE, THE ESTIMATED DURATION (OR STARTING AND ENDING TIMES), AND FORECASTED PERCENTAGE OF PRECIPITATION FOR THE PROJECT. THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER ON A MONTHLY BASIS. THE COST FOR THE RAIN GAUGES IS TO BE INCLUDED IN THE UNIT BID PRICES FOR OTHER ITEMS. RAIN GAUGES SHALL BE AS SPECIFIED IN THE APPROVED TDOT RAINFALL MONITORING PLAN.

(19) INSPECTION OF EPSC MEASURES SHALL BE DONE AT LEAST TWICE PER CALENDAR WEEK AT LEAST 72 HOURS APART. A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE/QUALITY CONTROL SITE ASSESSMENT OF EPSC SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION'S COMPREHENSIVE INSPECTION OFFICE GUIDELINES.

(20) OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO SURROUNDING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

(21) UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE TIMEFRAME, WRITTEN DOCUMENTATION MUST BE PROVIDED IN THE FIELD BOOK AND AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.

(22) THE TDOT PROJECT SUPERVISOR (OR THEIR DESIGNEE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT PROJECT SUPERVISOR OR THEIR DESIGNEE WILL COMPLETE THE INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

MATERIALS

WASTE AND BORROW AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN. BORROW AND WASTE DISPOSAL AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY AN ARAP, 404, OR NPDES PERMIT, OBTAINED SOLELY BY THE CONTRACTOR.

SWPPP, PERMITS, PLANS, RECORDS

(23) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS.

(24) ANY DISAGREEMENT BETWEEN THE PROJECT PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT ENGINEER. THE ENVIRONMENTAL DIVISION, ROADWAY DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

(25) THE FOLLOWING INFORMATION SHALL BE MAINTAINED ON OR NEAR THE SITE: DATES THAT MAJOR GRADING ACTIVITIES OCCUR, DATES WHERE CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, DATES WHEN STABILIZATION MEASURES ARE INITIATED, EPSC INSPECTION RECORDS, QUALITY ASSURANCE SITE ASSESSMENT RECORDS, PRECIPITATION RECORDS, SWPPP, PROJECT ENVIRONMENTAL PERMITS, AND A COPY OF THE PROJECT EPSC INSPECTOR'S TDEC LEVEL 1 CERTIFICATION.

(26) ALL WATER QUALITY AND STORM WATER PERMITS, INCLUDING A COPY OF THE NOC WITH NPDES PERMIT TRACKING NUMBER AND THE LOCATION OF THE SWPPP, SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL CONTACT PERSON WITH A BREIF DESCRIPTION OF THE PROJECT SHALL ALSO BE POSTED. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

(27) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS OR MODIFICATIONS OF THE SWPPP ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(28) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY. THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED WHEN MAJOR DESIGN REVISIONS ARE REQUESTED BY CONSTRUCTION. THE ENVIRONMENTAL DIVISION MAY BE CONTACTED FOR GUIDANCE ON SPECIFIC SWPPP NEEDS. A COPY OF ANY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS SHALL BE RETAINED IN THE SWPPP.

(29) THE SWPPP SHALL BE UPDATED BY CONSTRUCTION WHENEVER A CHANGE IN CHEMICAL TREATMENT METHODS IS MADE INCLUDING USE OF A DIFFERENT CHEMICAL, DIFFERENT DOSAGE OR APPLICATION RATE, OR A DIFFERENT AREA OF APPLICATION.

(30) IF A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION) THE SWPPP SHALL BE MODIFIED OR UPDATED.

(31) PROJECT INSPECTORS AND SUPERVISORS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF EPSC PLANS SHALL SUCCESSFULLY COMPLETE THE TDEC "LEVEL 1 - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION. A COPY OF CERTIFICATION RECORDS FOR THE COURSES SHALL BE KEPT ON SITE AND AVAILABLE UPON REQUEST.

LITTER, DEBRIS, WASTE, PETROLEUM

THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS. AFTER USE, MATERIALS USED FOR EPSC WILL BE REMOVED FROM THE SITE.

(32) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

SPECIAL NOTES

GRADING

(1) THE GRADING TABULATIONS AND RESULTING EARTHWORK ASSOCIATED BID QUANTITIES WERE PREPARED UTILIZING AVAILABLE GEOTECHNICAL INFORMATION AND/OR REPORTS PREPARED FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR GENERAL INFORMATION AND ESTIMATION GUIDANCE ONLY.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

12-JUN-2014 14:15
C:\Projects\Anderson SR61\002E.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHTSA-HE-61(28)	2F

SPECIAL NOTES (CONT.)

GRADING (CONT.)

(2) BORING DEPICTIONS SHOWN ON THE FOUNDATION DATA SHEETS, SOILS SHEETS, PLANS, AND CROSS-SECTIONS INDICATE SOIL AND ROCK CONDITIONS AT THE SPECIFIC BORING LOCATIONS. ANY SOIL PROFILE AND/OR ROCK LINE IS INTERPRETIVE BASED ON THE JUDGMENT OF THE GEOTECHNICAL ENGINEER/GEOLOGIST. THE TRANSITION BETWEEN BORINGS AND LAYERS MAY VARY SIGNIFICANTLY DEPENDING ON THE GEOLOGIC FORMATIONS ENCOUNTERED.

(3) TO ASSIST IN BID PREPARATION FOR EARTHWORK AND FOUNDATION CONSTRUCTION, DETAIL ROCK AND SOIL DESCRIPTION AND ON SOME PROJECTS, ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION AT THE MATERIALS AND TESTS HEADQUARTERS AT 6601 CENTENNIAL BOULEVARD, NASHVILLE, TN OR AT THE TDOT REGION 1 BUILDING IN KNOXVILLE, TN.

(4) THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

(5) EARTHWORK IS PAID FOR UNDER ITEM 203-01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE MADE FOR EARTHWORK QUANTITIES BASED SOLELY ON A CLAIM THAT THE QUANTITIES SHOWN IN THE GRADING TABULATION OR ELSEWHERE IN THE PLANS ARE INACCURATE WITH RESPECT TO THE TYPE OF MATERIALS ENCOUNTERED DURING CONSTRUCTION EXCEPT AS PROVIDED FOR BY SECTION 104.02 IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS.

SIGNALIZATION

(1) THE DESIGN OF TRAFFIC SIGNAL SUPPORT POLES, MAST ARMS, STRAIN POLES, ETC. SHALL BE IN CONFORMANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, CURRENT EDITION. OVERHEAD CANTILEVERED TRAFFIC SIGNAL STRUCTURES SHALL BE DESIGNED FOR FATIGUE CATEGORY 1.

UTILITIES

(1) "THE CONTRACTOR SHALL CALL 811 FOR GAS MAIN LOCATIONS, IF ANY CONFLICTS ARISE, CALL NEAL VILES (POWELL-CLINCH UTILITY DISTRICT) AT (865) 740-0060."

EROSION PREVENTION AND SEDIMENT CONTROL

NPDES

(1) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 12, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES

12-JUN-2014 14:16
C:\Projects\Anderson SR61\002F.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHTSA-HE-61(28)	2G

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE LT	SIDE RT	STATION FROM	STATION TO	GUARDRAIL TYPE 2 705-02.02 (L.F.)	TERMINAL ANCHORS TYPE 21 705-04.04 EACH	TERMINAL ANCHORS TYPE IN LINE 705-04.05 EACH	REMARKS
7A	S.R. 61	X		63+81.24	63+92.10	21			MEDIAN
7A	S.R. 61		X	63+75.75	63+90.13	21			MEDIAN
7A	S.R. 61	X		64+42.29	64+59.22	41			MEDIAN
7A	S.R. 61		X	64+39.58	64+55.13	41			MEDIAN
5B	*					328	1	1	HERMITAGE DR.\HANNAH DR.
TOTALS						452	1	1	

* FROM LT. STA. 1+35.00+/- HERMITAGE DRIVE TO RT. STA. 1+47.00+/- HANNAH DRIVE.

CATCH BASINS

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSIONS	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS TYPE 12 611-12.01 0' - 4'	PAY ITEMS TYPE 38 611-38.01 0' - 4'	PAY ITEMS ADJUST EXIST. C.B. 611-09.01
6A	LT.	55+41.12		1	834.74	C.B.						1
7A	LT.	66+00.00	0.50	2	806.04	C.B.		3.74	D-CB-12LP	1		
7A	RT.	65+47.00	4.05	3	806.22	C.B.		3.74	D-CB-12LP	1		
7A	RT.	67+62.00	10.00	4	807.78	C.B.		3.74	D-CB-12LP	1		
7A	RT.	66+42.33		5	806.62	C.B.						1
9A	RT.	108+50.00	1.80	6	799.07	C.B.		2.96	D-CB-38S		1	
9A	RT.	108+66.17	55.00	7	798.68	C.B.		3.74	D-CB-12LP	1		
9A	RT.	109+33.62	55.00	8	797.77	C.B.		3.74	D-CB-12LP	1		
TOTALS										5	1	2

SIDE DRAIN TABULATION

STATION	LOCATION LT	LOCATION RT	DESCRIPTION	SURFACE WIDTH (L.F.)	RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC (L.F.) FILL HEIGHT < OR = 10 FT. 18"	24"	30"	36"	48"	RCP CLASS III OR CMP 14 GA. OR HDPE OR PVC (LF) FILL HEIGHT > 10 FT. AND < OR = 18 FT. 18"	24"	30"	36"	48"	END TREATMENT TYPE	DRAWING NO.	18IN ENDWALL (SIDE DRAIN) 611-07.31 EACH	REMARKS
57+76.00	x		BUSINESS ENTRANCE	42														NO S.D. REQ'D.
59+93.00	X		BUSINESS ENTRANCE	40														NO S.D. REQ'D.
118+10.00	X		BUSINESS ENTRANCE	40	48										U	D-SEW-1A	1	W/SAFETY GRATE
109.10.00	X		BUSINESS ENTRANCE	30	62													SIDE DRAIN
114+60.00	X			35	44													SIDE DRAIN
TOTALS					154	0	0	0	0	0	0	0	0	0			1	

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

2-JUN-2014 14:16
C:\Projects\Anderson SR61\002G.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHTSA-HE-61(28)	2H

REMOVAL OF PIPES

SHEET NO.	STATION	LOCATION	DESCRIPTION	REMARKS
9	108+60.00 +/-	RT.	122' - 18" CMP	
9	109+00.00+/-	RT.	57' - 15" CMP	1
9	109+10.00+/-	LT.	62' - 15" CMP	
9	111+00.00 +/-	RT.	37' - 18" CMP	
10	114+90.00 +/-	RT.	46' - 18" CMP	
10	117+12.00+/-	LT.	40' - 12" CMP	
10	118+00.00 +/-	RT.	37' - 18" CMP	
10	120+30.00 +/-	RT.	70' - 15" CMP	

I. INCLUDES REMOVAL OF EXISTING CATCH BASINS RT. STA. 108+66.17 AND RT. STA. 109+37.62.

STORM DRAINAGE PIPES

SHEET NO.	FROM		TO		% GRADE	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.)				
	CODE	OUTLET ELEV.	CODE	INLET ELEV.		18"	24"	30"	36"	48"
7B	3	802.48	2	802.14	0.50	56				
7B	2	802.20	5	801.98	0.50	44				
7B	4	804.04	5	801.98	1.70	120				
9B	7	794.94	8	794.03	0.50	57				
TOTALS						277	0	0	0	0

CROSS DRAIN TABULATION

STATION	RCP CLASS III OR CMP 14 GA. OR HDPE OR PVC OR SRTRP (L.F.) FILL HEIGHT < OR = 16 FT.					RCP CLASS IV OR CMP 14 GA. OR PVC (L.F.) FILL HEIGHT > 16 FT. AND < OR = 24 FT.					SKEW	RIP-RAP 709-05.06 (TON)	END TREATMENT				REMARKS
													INLET		OUTLET		
	18"	24"	30"	36"	48"	18"	24"	30"	36"	48"			TYPE	DRAWING NO.	TYPE	DRAWING NO.	
108+50.00	56										90						
TOTALS	56	0	0	0	0	0	0	0	0	0		0					

PAVEMENT QUANTITIES

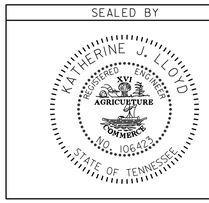
LOCATION	PAY ITEMS							
	303-01 (TON)	307-02.01 (TON)	307-02.08 (TON)	403-01 (TON)	402-01 (TON)	402-02 (TON)	411-01.07 (TON)	411-02.10 (TON)
26+50.00 - 120+41.00	1648	672	330	1	4	12		194
BUS. ENT.	72		36					21
57+25.00-60+70.00 SH.	341						30	
TOTALS	2061	672	366	1	4	12	30	215

ESTIMATED GRADING QUANTITIES

STATION TO STATION	ROAD & DRAINAGE EXC. (UNCL.)		BORROW EXCAVATION		CHANNEL EXC. C.Y.	EXCESS EXC. WASTE C.Y.	EMB. C.Y.
	COMMON - C.Y.	S. ROCK - C.Y.	UNCL. - C.Y.	S. ROCK - C.Y.			
26+50.00 - 120+41.00	2470					1392	898
TOTALS	2470	0	0	0	0	1392	898

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

2-JUN-2014 14:17
C:\Projects\Anderson SR61\002H.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	3
CONST.	2014	NHTSA-HE-61(28)	3

UTILITY NOTES

UTILITIES

(1) 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.

(2) 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.

(3) 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.

(4) 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.

(5) 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.

R.O.W. NOTES

RIGHT - OF – WAY

(1) 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.

(2) ALL RAMPS MUST CONFORM TO THE DEPARTMENT'S "POLICY ON FINANCING CONSTRUCTION OF PUBLIC ROAD INTERSECTIONS AND DRIVEWAYS ON HIGHWAY RESURFACING, RECONSTRUCTION AND CONSTRUCTION PROJECTS ON NEW LOCATIONS", THE MANUAL ON RULES AND REGULATIONS FOR CONSTRUCTING DRIVEWAYS ON STATE HIGHWAY RIGHT-OF-WAY, STANDARD DRAWING RP-R-1, AND OTHER ACCEPTED DESIGN AND SAFETY STANDARDS.

(3) EXISTING PAVED DRIVEWAY PER TRACT REMAINDER WILL BE REPLACED IN KIND TO A TOUCHDOWN POINT.

(4) 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.

(5) 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.

(6) ANY NECESSARY PAVING OF DRIVEWAYS WILL BE DONE DURING PAVING OPERATIONS ON THE MAIN ROADWAY.

(7) TRACT REMAINDERS NOT HAVING AN EXISTING DRIVEWAY WILL BE PROVIDED ONE 50-FOOT OPENING IN THE ACCESS CONTROL FENCE AND A DRIVEWAY WILL BE CONSTRUCTED UNLESS ACCESS IS PROVIDED FROM AN INTERSECTING ROAD OR BASED ON PHYSICAL CONDITIONS AND/OR CONFLICTS WITH OTHER DESIGN CONSIDERATIONS WHICH PREVENT AN ACCESS OPENING. PAVING OF THESE NEW DRIVEWAYS WILL BE IN ACCORDANCE TO THE 7 PERCENT CRITERIA PREVIOUSLY MENTIONED FOR EXISTING DRIVEWAYS.

(8) ON PROJECTS WITHOUT CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT AND TO CONSTRUCT ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

(9) 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.

(10) EASEMENT REQUIRED FOR THE RAILROAD CROSSING IS TO BE OBTAINED BY THE UTILITIES ENGINEER BY PROVISIONS CONTAINED IN THE CROSSING AGREEMENT NEGOTIATED WITH THE RAILROAD.

UTILITY OWNERS

PHONE:
ATT/D - KNOXVILLE
9733 PARKSIDE DRIVE
KNOXVILLE, TN 37922
DAVID OVERMAN
(865) 539-8534

CABLE:
COMCAST (OAK RIDGE)
300 SOUTH ILLINOIS AVENUE
OAK RIDGE, TN 37830
(865) 321-9967

RAILROAD:
CSX CORPORATION, INC
(800) 232-0144
CORPORATE HEADQUARTERS
500 WATER STREET, 15th FLOOR
JACKSONVILLE, FL 32202
(904) 359-3200

WATER:
TOWN OF OLIVER SPRINGS
P.O. BOX 303
701 MAIN STREET
OLIVER SPRINGS, TN 37840
DAVID BOLLING
(865) 435-7722

SANITARY SEWER:
TOWN OF OLIVER SPRINGS
P.O. BOX 303
701 MAIN STREET
OLIVER SPRINGS, TN 37840
(865) 435-7722
SUSAN TYLER, OFFICE MGR
SEWER PLANT (865) 435-6391

GAS:
POWELL CLINCH UTILITY
203 FIRST STREET
P.O. BOX 428
LAKE CITY, TN 37769
STEPHEN HARRIS
(865) 426-2822
NEAL VILES
(865)740-0060

POWER:
CLINTON UTILITIES BOARD
1001 NORTH CHARLES G. SEVIER BLVD.
CLINTON, TN 37716
RONALD SWANNER
(865) 220-6270

UNOFFICIAL SET
NOT FOR BIDDING

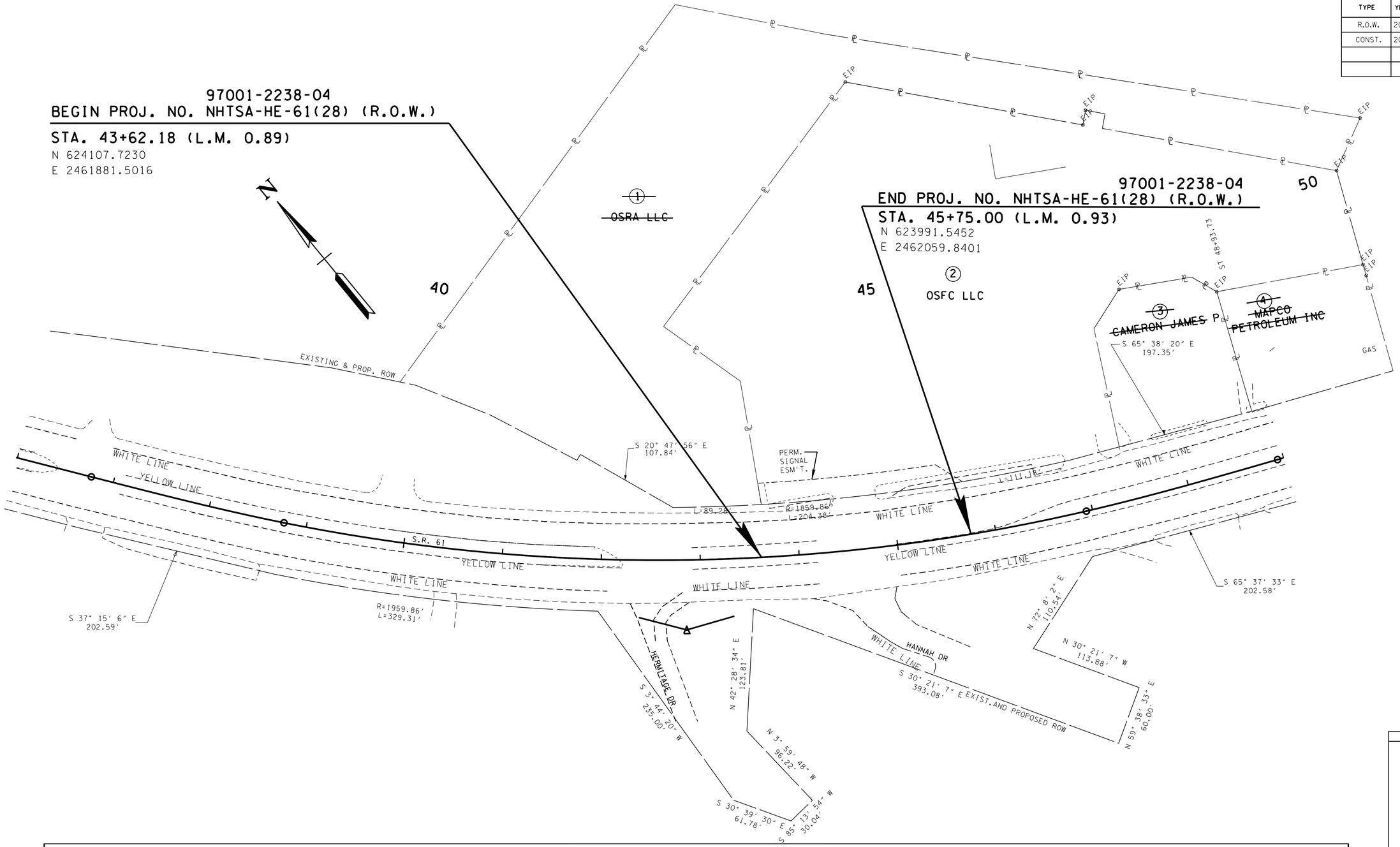
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY NOTES AND R.O.W. NOTES

12-JUN-2014 14:18
C:\Projects\Anderson SR61\003.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	3A
CONST.	2014	NHTSA-HE-61(28)	3A



R.O.W. ACQUISITION TABLE

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 BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. SIGNAL	SLOPE	CONST.
1	OSRA LLC	092J B	013.01	1089	583											
2	OSFC LLC	092J B	013.00	1057	175	3.998		3.998				3.998		4132		
3	CAMERON JAMES P	092J B	013.02	1553	1144											
4	MAPCO PETROLEUM INC	092J B	013.03	1554	2244											

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 100423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

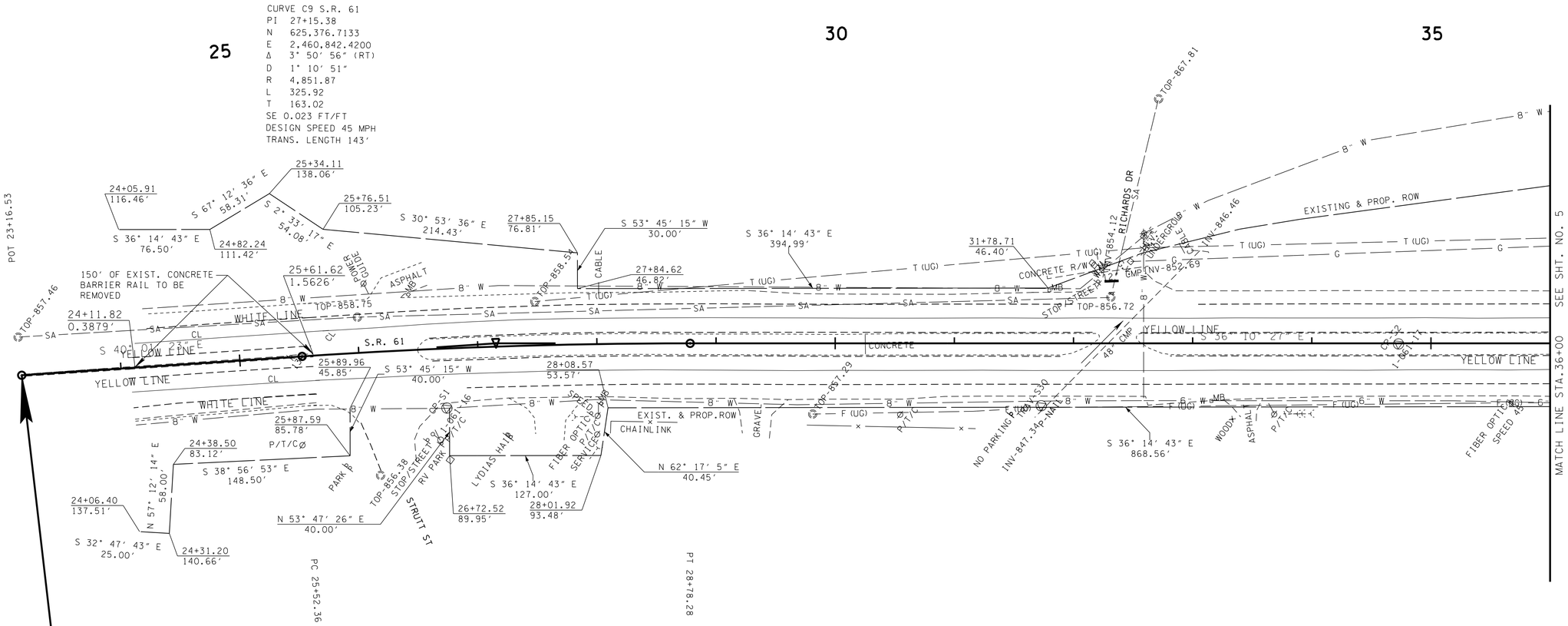
STA. 36+00 TO STA. 49+00

SCALE: 1"= 50'

2-JUN-2014 14:19
C:\Projects\Anderson SR61\003A.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	4
CONST.	2014	NHTSA-HE-61(28)	4

POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	FEATURE	DESCRIPTION
S1	625377.88	2460774.33	857.67	26+74.14	54.28	XCP	1-061-16
S2	624764.91	2461289.15	856.84	34+72.81	0.50	XCP	1-061-17
S3	624281.82	2461606.60	853.70	40+44.13	49.39	XCP	1-061-18
S4	623868.03	2462202.86	848.30	47+56.81	44.54	XCP	1-061-19
S5	623496.49	2463072.66	832.11	56+94.78	-50.75	XCP	1-061-20
S6	622865.99	2463598.11	806.75	65+08.25	-45.78	XCP	1-061-21
S7	622207.28	2464078.62	820.47	73+18.11	46.97	XCP	1-061-12
S8	621868.81	2464484.87	812.65	78+59.40	46.89	XCP	1-061-23
S9	619785.53	2466849.72	803.90	109+71.87	98.87	XCP	1-061-24
S10	619280.77	2467359.16	800.09	116+87.21	149.85	XCP	1-061-25



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

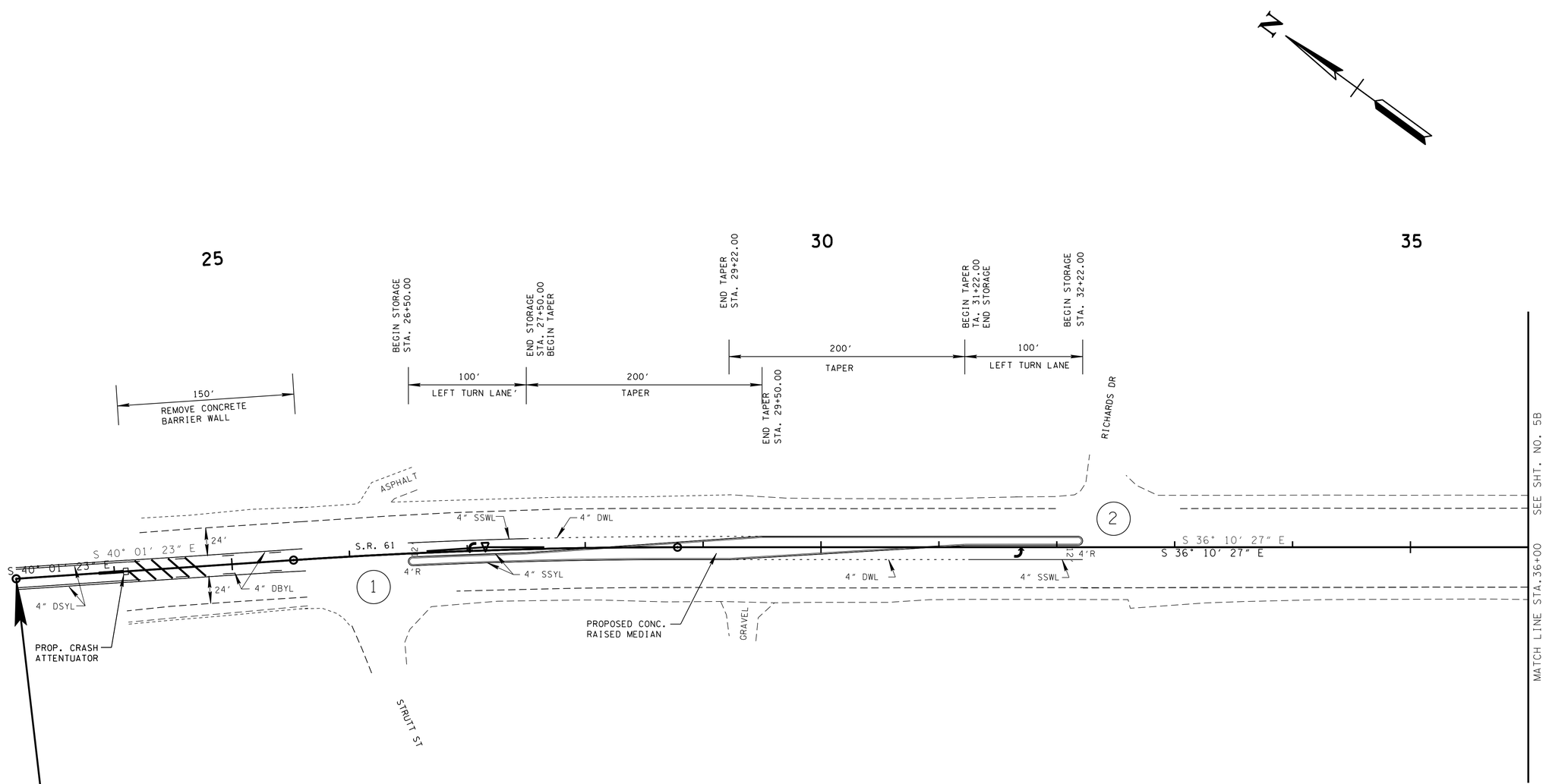
PRESENT LAYOUT

BEGIN OF PROJ.TO STA.36+00

SCALE: 1"= 50′

2-JUN-2014 14:19
C:\Projects\Anderson SR61\004.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	4A
CONST.	2014	NHTSA-HE-61(28)	4A



97001-3238-04

BEGIN PROJ. NO. NHTSA-HE-61(28) (CONST.)

STA. 23+16.53 (L.M. 0.50)

N 625682.1505

E 2460585.9193

GUIDANCE

INTERSECTION 1 - STRUTT STREET

1) REMOVE 150 FT. OF CONCRETE BARRIER WALL AND INSTALL CRASH ATTENTUATOR AND HIGHWAY MARKINGS AS SHOWN.

2) INSTALL A NORTHBOUND LEFT-TURN LANE WITH 100 FT. OF STORAGE AND 200 FT. OF TAPER.

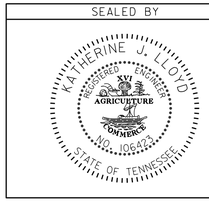
INTERSECTION 2 - RICHARDS DRIVE

1) INSTALL A SOUTHBOUND LEFT-TURN LANE WITH 100 FT. OF STORAGE AND 200 FT. OF TAPER.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

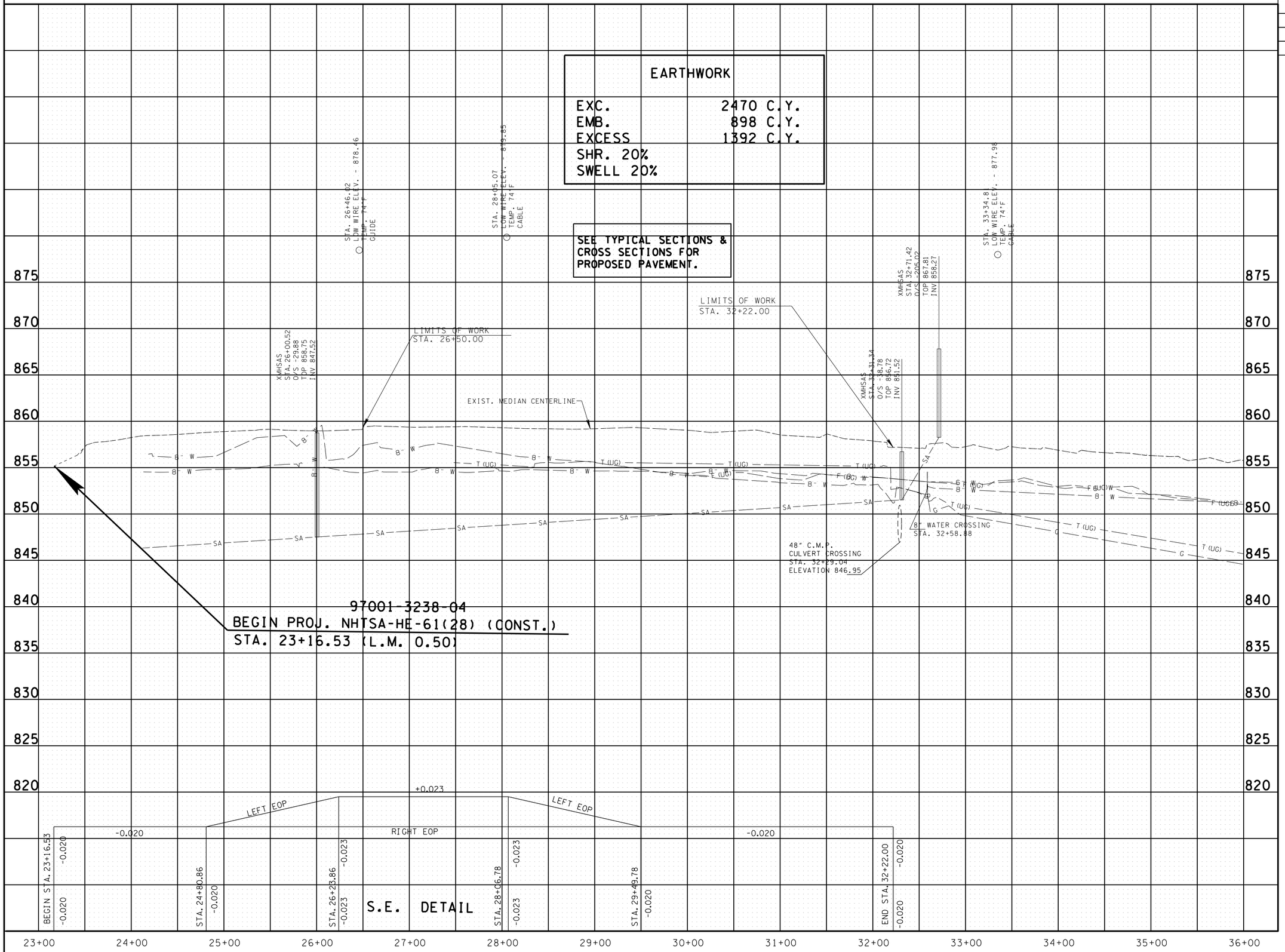
BEGIN OF PROJ.TO STA.36+00

SCALE: 1"= 50'

2-JUN-2014 14:19

C:\Projects\Anderson SR61\004A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	4B
CONST.	2014	NHTSA-HE-61(28)	4B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106433
STATE OF TENNESSEE

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

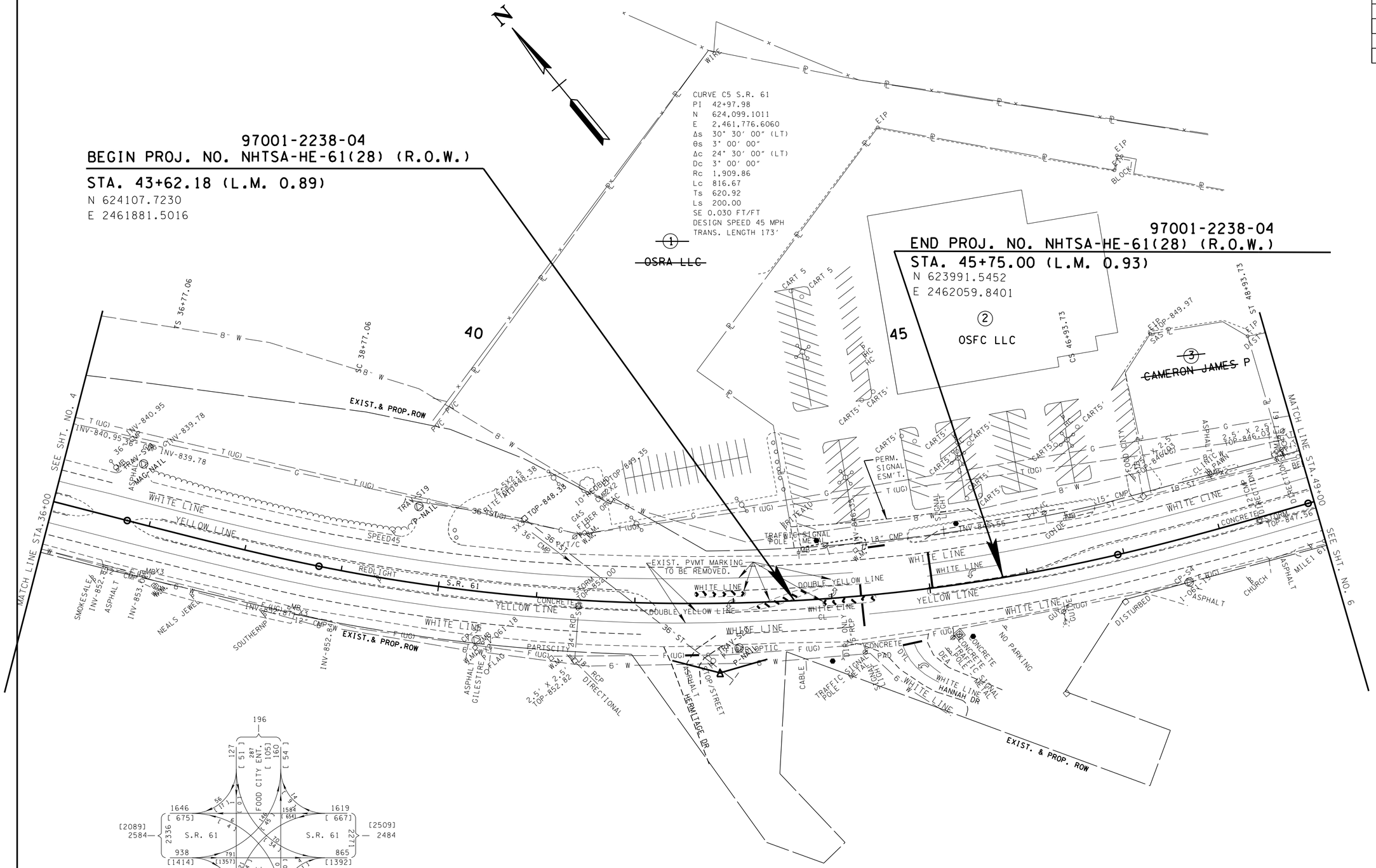
PROFILE

BEGIN OF PROJ. TO STA. 36+00

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

22-JUN-2014 14:19
C:\Projects\Anderson SR61\004B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	5
CONST.	2014	NHTSA-HE-61(28)	5



POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	FEATURE	DESCRIPTION
S3	624281.82	2461606.60	853.70	40+44.13	49.39	XCP	1-061-18
S4	623868.03	2462202.86	848.30	47+56.81	44.54	XCP	1-061-19

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/B3(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

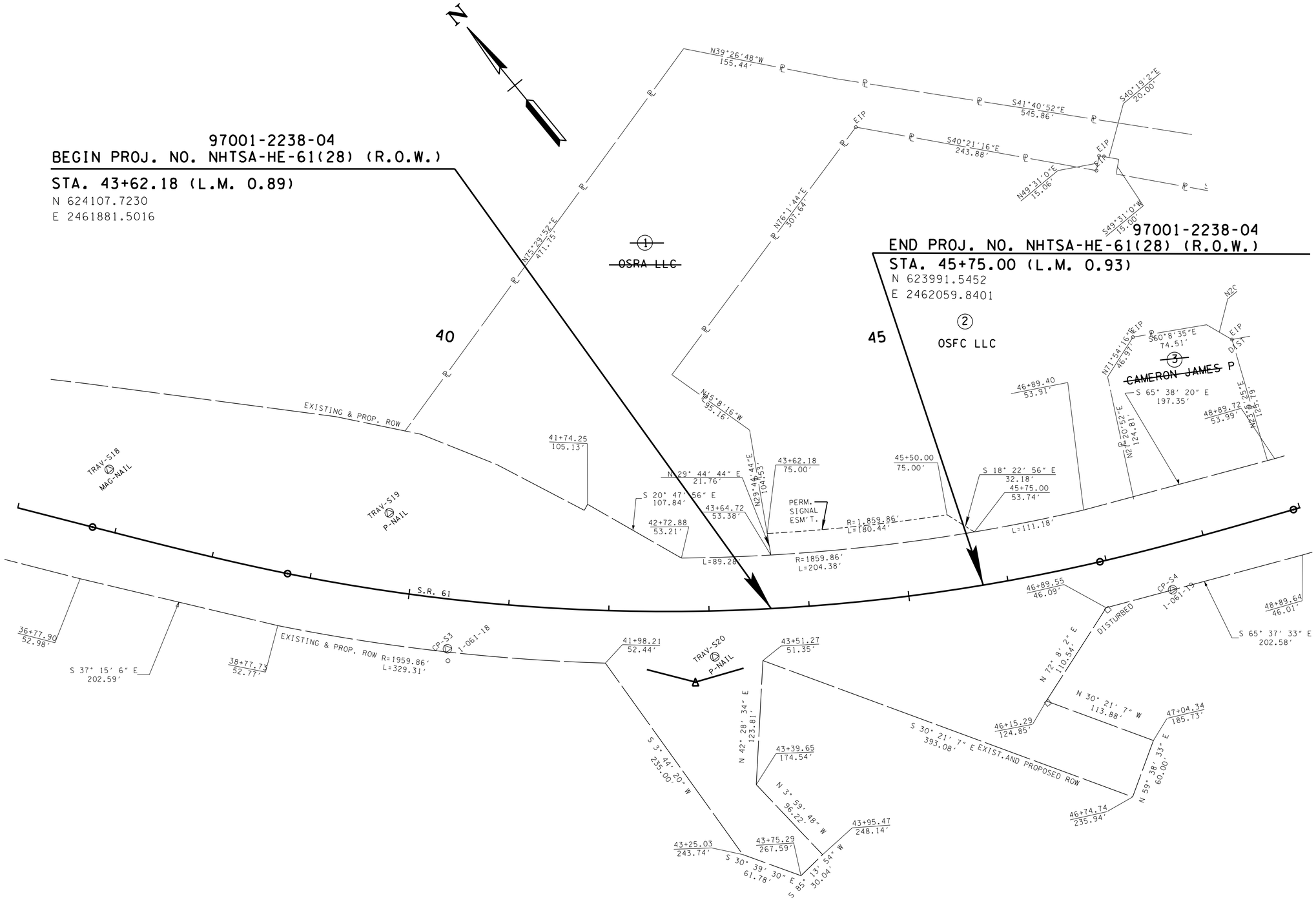
PRESENT LAYOUT

STA. 36+00 TO STA. 49+00

SCALE: 1″= 50′

12-JUN-2014 14:19
C:\Projects\Anderson SR61\005.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	5A
CONST.	2014	NHTSA-HE-61(28)	5A



POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	FEATURE	DESCRIPTION
S3	624281.82	2461606.60	853.70	40+44.13	49.39	XCP	1-061-18
S4	623868.03	2462202.86	848.30	47+56.81	44.54	XCP	1-061-19

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. DETAILS

STA. 36+00 TO STA. 49+00

SCALE: 1"= 50'

2-JUN-2014 14:19
c:\Projects\Anderson SR61\005A.sht

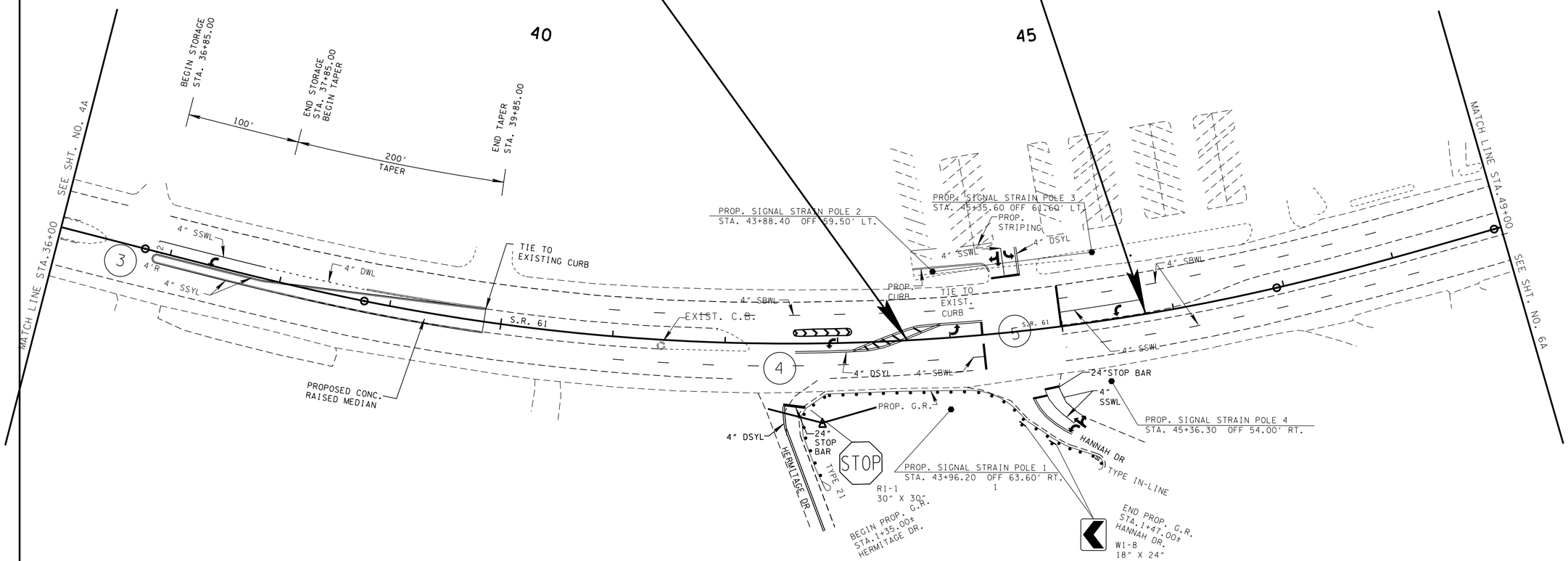
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	5B
CONST.	2014	NHTSA-HE-61(28)	5B

97001-2238-04
BEGIN PROJ. NO. NHTSA-HE-61(28) (R.O.W.)

STA. 43+62.18 (L.M. 0.89)
N 624107.7230
E 2461881.5016

97001-2238-04
END PROJ. NO. NHTSA-HE-61(28) (R.O.W.)

STA. 45+75.00 (L.M. 0.93)
N 623991.5452
E 2462059.8401



GUIDANCE

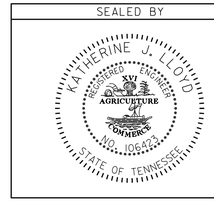
INTERSECTION 3 - DISCOUNT TOBACCO
1) INSTALL A NORTHBOUND LEFT-TURN LANE WITH 100 FT. OF STORAGE AND 200 FT. OF TAPER.

INTERSECTION 4 - HERMITAGE DRIVE
1) INSTALL CENTERLINE DOUBLE YELLOW, STOP LINE, AND STOP SIGN.
2) INSTALL PROP. GUARDRAIL FROM HERMITAGE DRIVE TO HANNAH DRIVE.

INTERSECTION 5 - HANNAH DRIVE / FOOD CITY
1) INSTALL PROTECTIVE/PERMISSIVE LEFT-TURN PHASE FOR NORTHBOUND TRAFFIC TURNING ONTO HANNAH DRIVE.
2) INSTALL CHEVRON DELINATORS ON HANNAH DRIVE.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

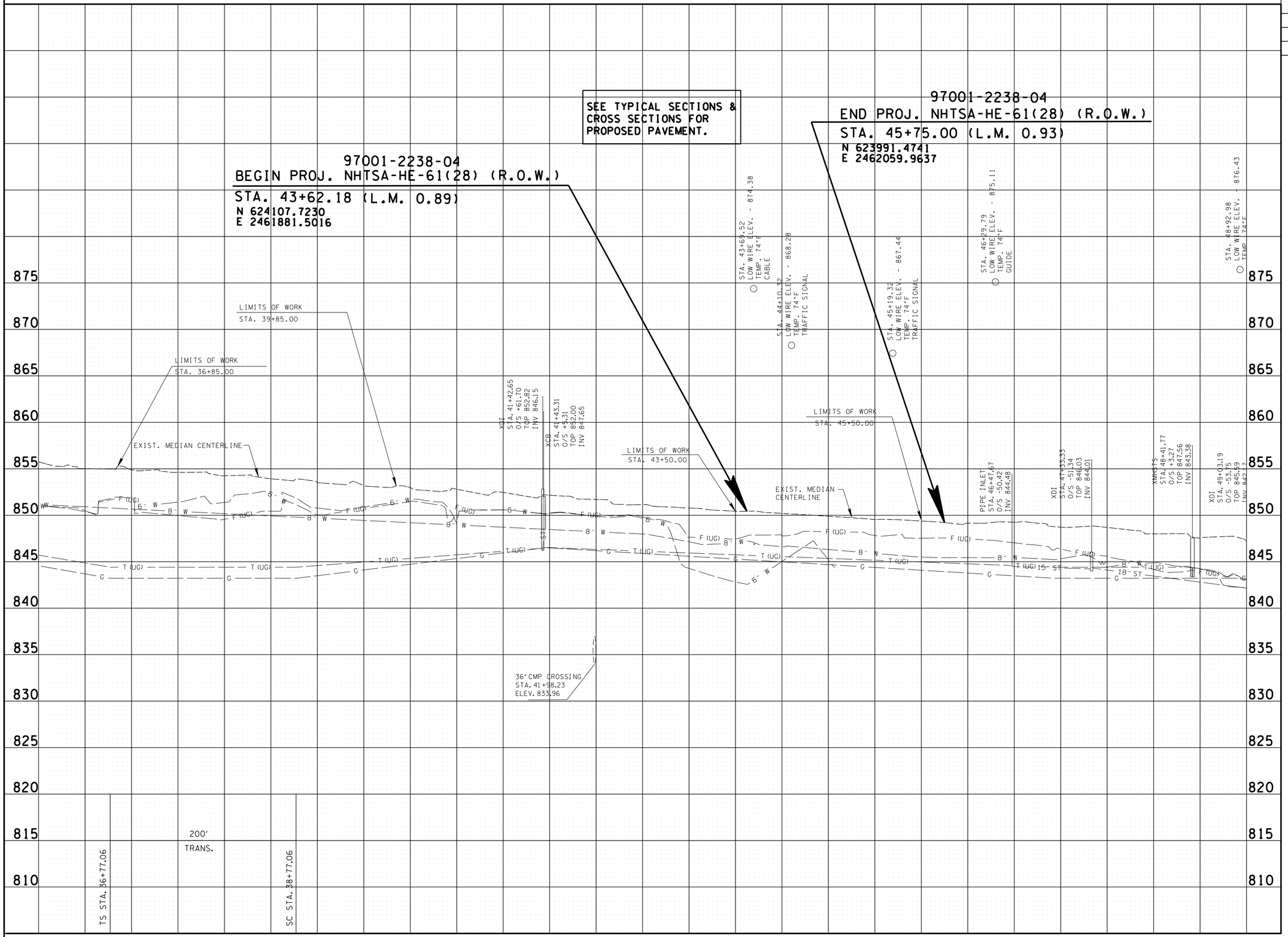
PROPOSED LAYOUT

STA. 36+00 TO STA. 49+00

SCALE: 1"= 50'

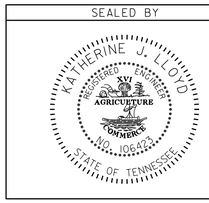
2-JUN-2014 14:19
C:\Projects\Anderson SR61\005B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	5C
CONST.	2014	NHTSA-HE-61(28)	5C



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

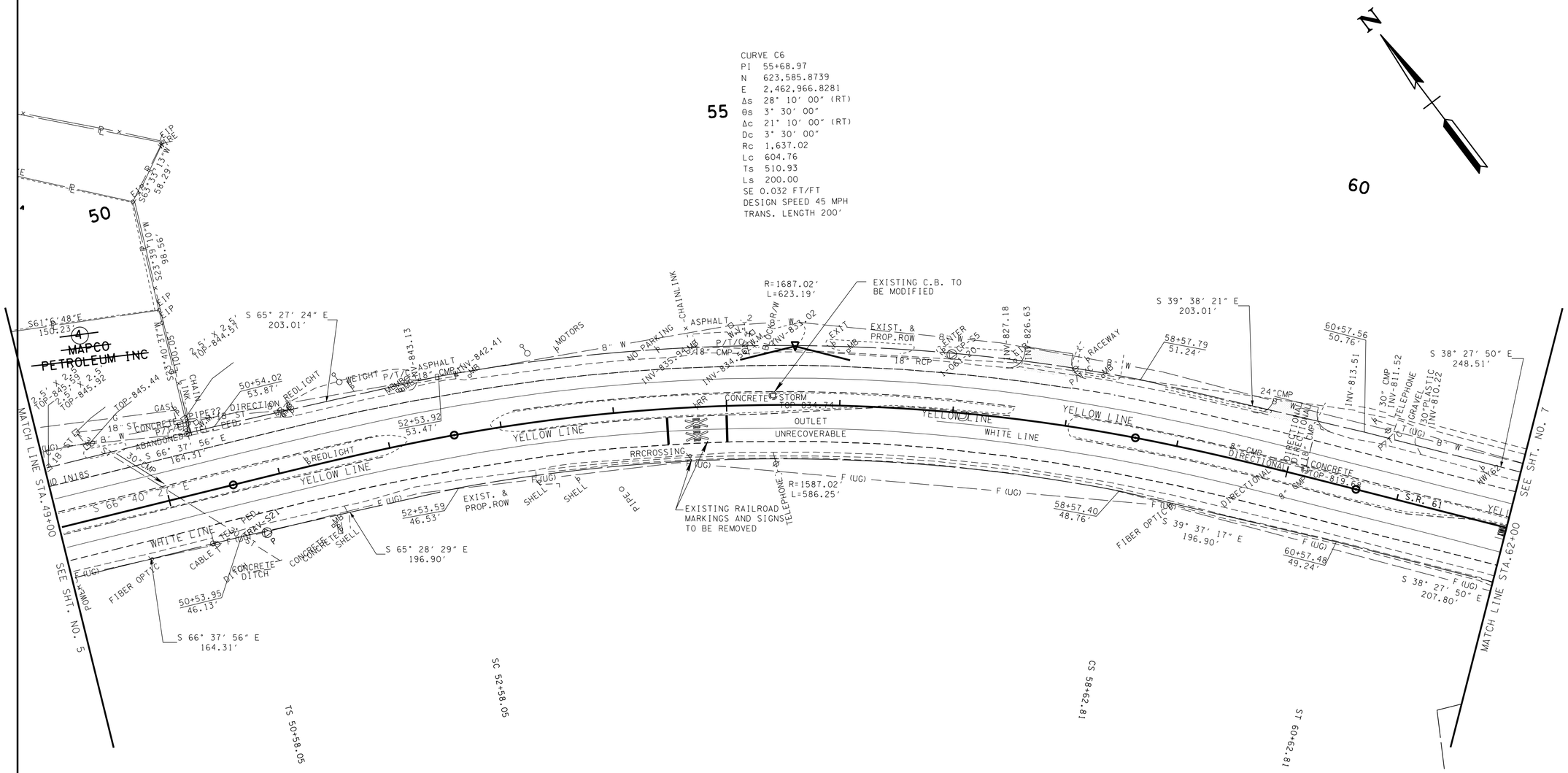
STA. 36+00 TO STA.49+00

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

2-JUN-2014 14:19
C:\Projects\Anderson SR61\005C.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	6
CONST.	2014	NHTSA-HE-61(28)	6

CURVE C6
PI 55+68.97
N 623,585.8739
E 2,462,966.8281
Δs 28° 10′ 00″ (RT)
θs 3° 30′ 00″
Δc 21° 10′ 00″ (RT)
Dc 3° 30′ 00″
Rc 1,637.02
Lc 604.76
Ts 510.93
Ls 200.00
SE 0.032 FT/FT
DESIGN SPEED 45 MPH
TRANS. LENGTH 200′



POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	FEATURE	DESCRIPTION
S5	623496.49	2463072.66	832.11	56+94.78	-50.75	XCP	1-061-20

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

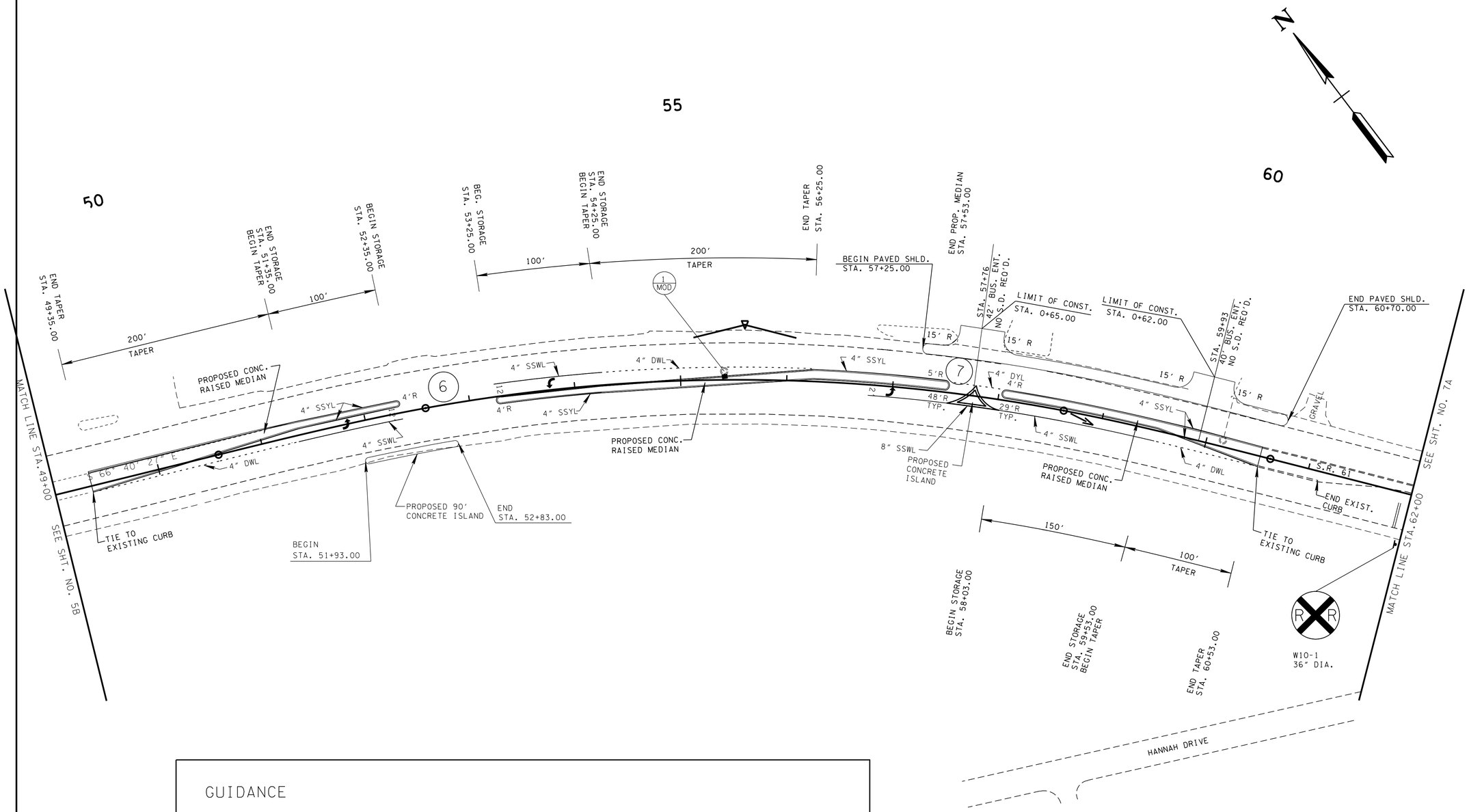
PRESENT LAYOUT

STA. 49+00 TO STA. 62+00

SCALE: 1"= 50′

2-JUN-2014 14:19
c:\Projects\Anderson SR61\006.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	6A
CONST.	2014	NHTSA-HE-61(28)	6A



GUIDANCE

INTERSECTION 6 - FORMER EXXON GAS / BEL-AIRE MOTORS
1) INSTALL A NORTHBOUND AND SOUTHBOUND LEFT-TURN LANES AS SHOWN SHIFTING THE MEDIAN OPENING TO THE SOUTH.
2) INSTALL A 90 FT. CONCRETE ISLAND NEAR GAS STATION TO DEFINE ACCESS POINTS.

INTERSECTION 7 - HARDEE'S & RACEWAY DRIVEWAYS
1) PAVE SHOULDER AND JOINT DRIVEWAY TO HARDEE'S AND RACEWAY APRON TO IMPROVE PROFILE.
2) INSTALL ACCELERATION LANE IN MEDIAN WITH MARKINGS AS SHOWN.
3) REMOVE NORTHERN ACCESS TO RACEWAY AND INSTALL RAISED CONCRETE ISLAND.
4) PAVE SHOULDER AND RACEWAY DRIVEWAY APRON TO IMPROVE PROFILE.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

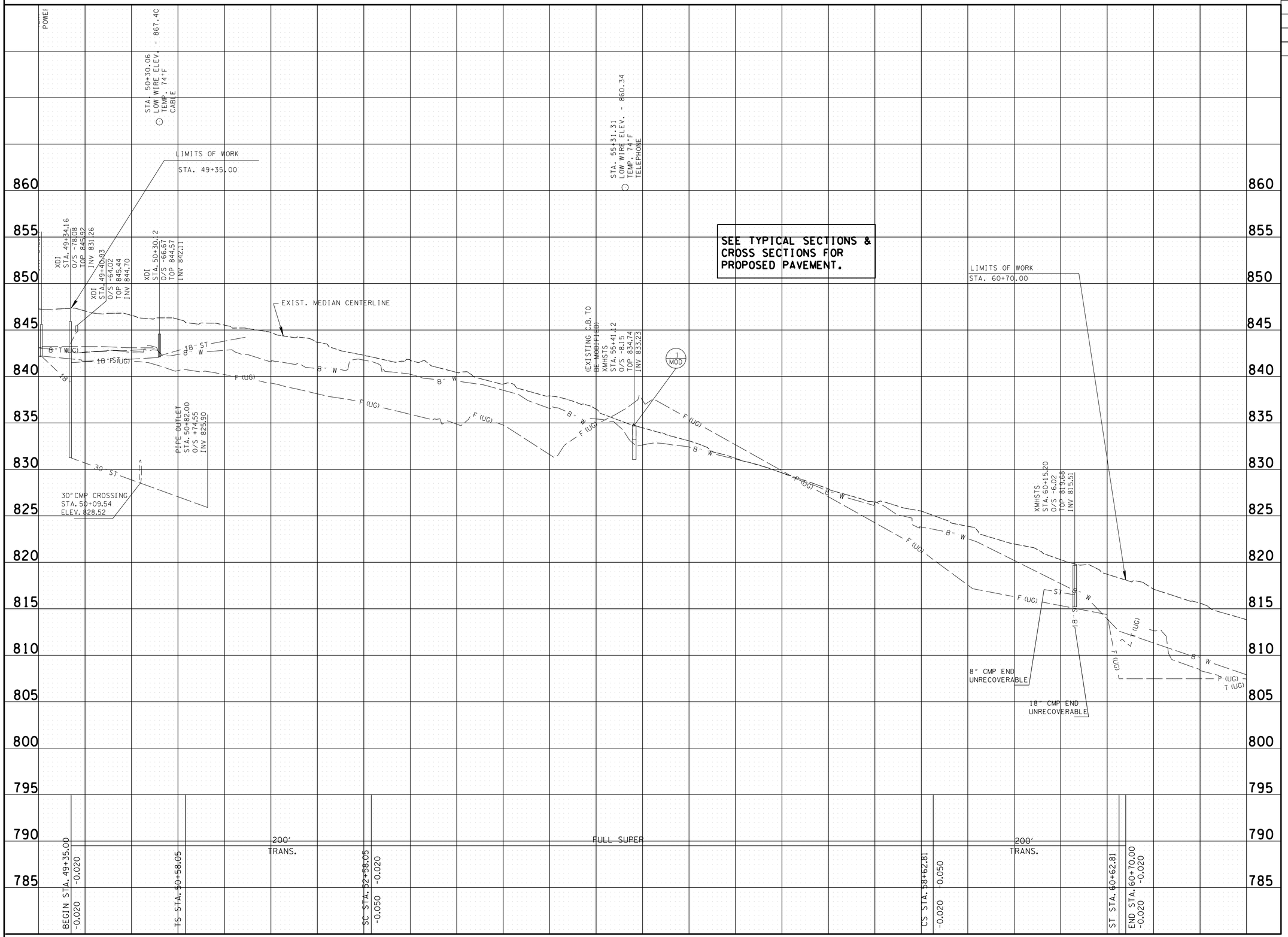
PROPOSED LAYOUT

STA. 49+00 TO STA. 62+00

SCALE: 1"= 50'

2-JUN-2014 14:19
C:\Projects\Anderson SR61\006A.sht

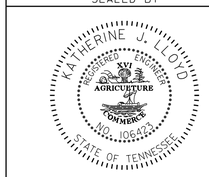
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	6B
CONST.	2014	NHTSA-HE-61(28)	6B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

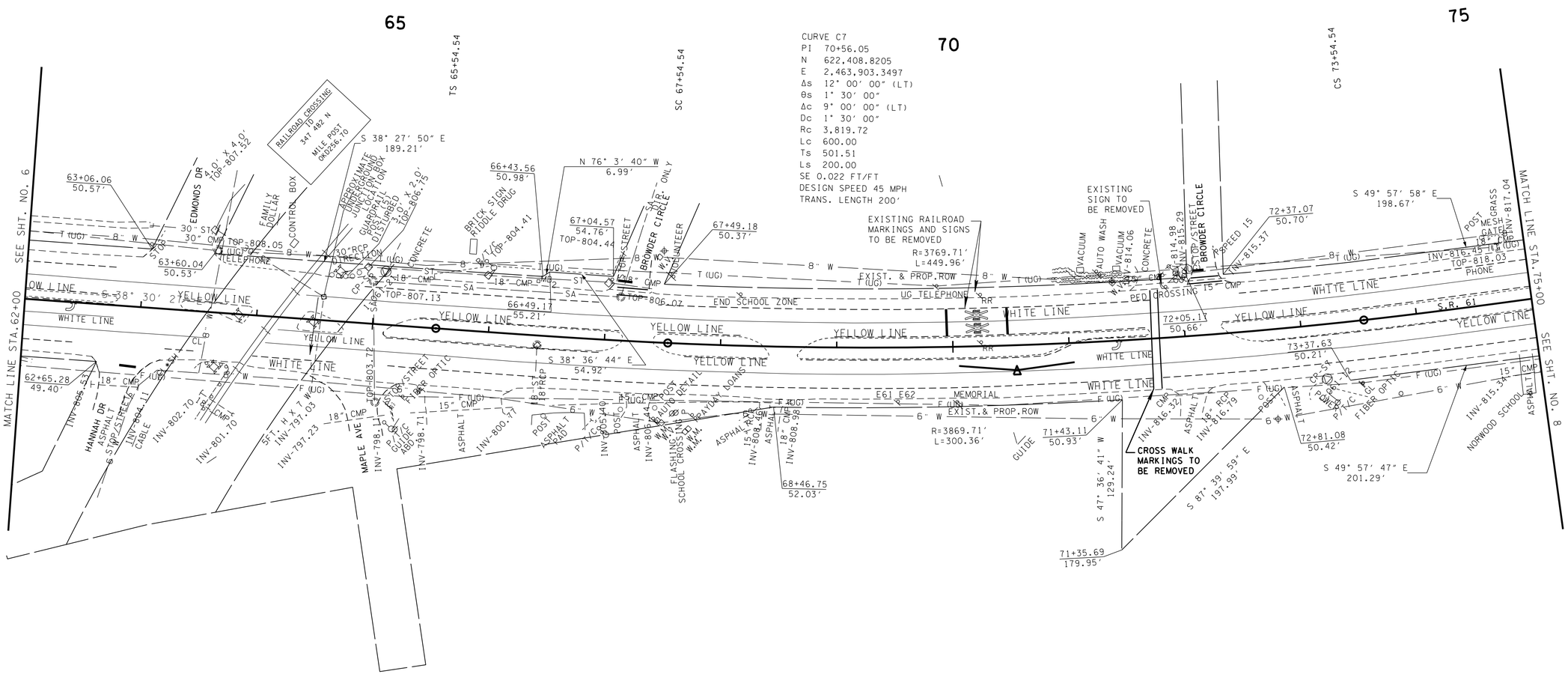
PROFILE

STA. 49+00 TO STA. 62+00

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

2-JUN-2014 14:19
C:\Projects\Anderson SR61\006B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	7
CONST.	2014	NHTSA-HE-61(28)	7



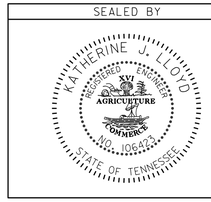
NOTE TO CONTRACTOR:

ALL WORK TO BE BY THE RAILROAD'S FORCES:
REPLACEMENT OF THE OLD SWING OUT CANTILEVER FLASHING LIGHT CROSSING SIGNALS ON THE EAST SIDE ALONG WEST BOUND LANE(S) OF S.R. 61.
IN ADDITION; UPGRADING OF THE EXISTING INCANDESCENT CROSSING SIGNALS FLASHERS TO 12″ LED FLASHERS, INSTALLATION OF BACK-TO-BACK CROSS BUCK SIGNS ON THE MASTS OF ACTIVE WARNING DEVICES, AND INSTALLATION OF OTHER ASSOCIATED TRACK CIRCUITRY.

POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	FEATURE	DESCRIPTION
S6	622865.99	2463598.11	806.75	65+08.25	-45.78	XCP	1-061-21
S7	622207.28	2464078.62	820.47	73+18.11	46.97	XCP	1-061-12

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 62+00 TO STA. 75+00

SCALE: 1″= 50′

2-JUN-2014 14:19
c:\Projects\Anderson SR61\007.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	7A
CONST.	2014	NHTSA-HE-61(28)	7A

GUIDANCE

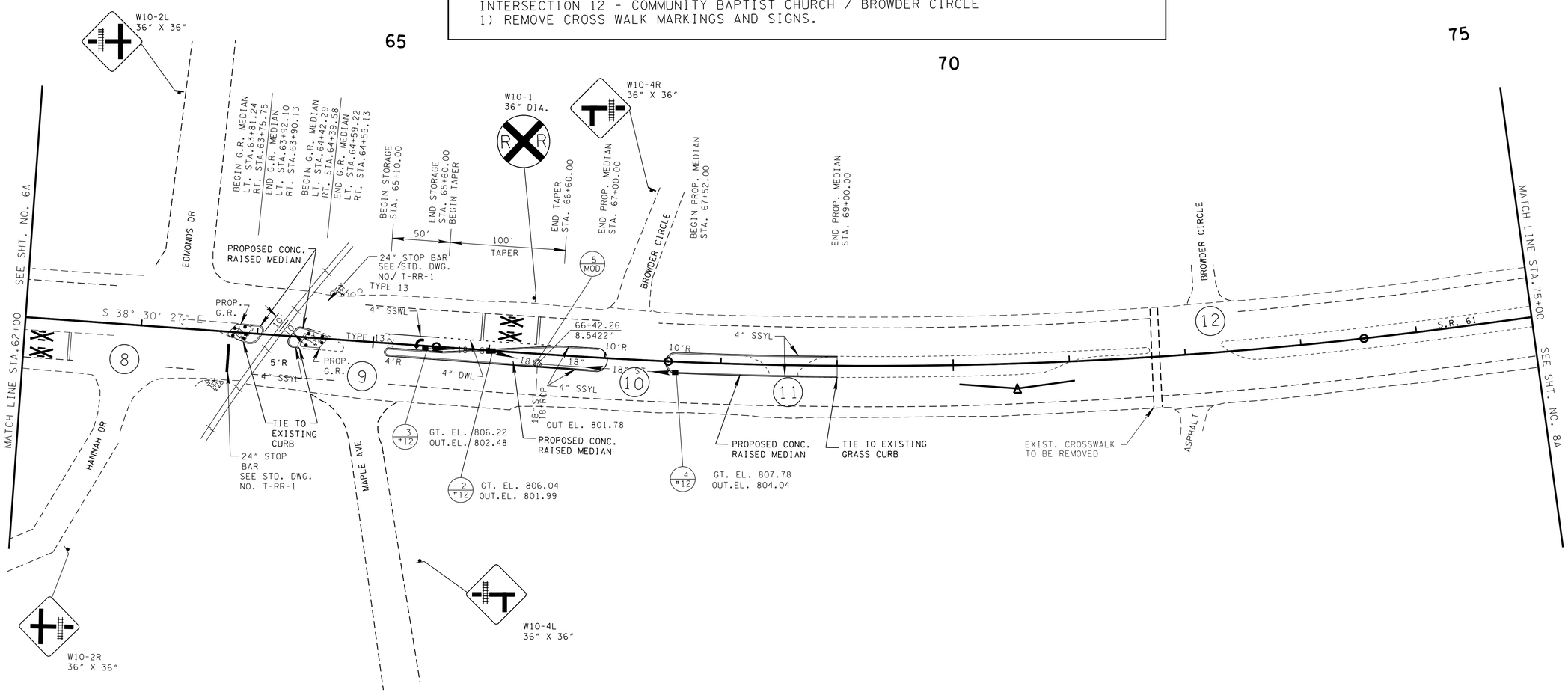
INTERSECTION 8 - HANNAH DRIVE (SOUTH) / EDMONDS
1) INSTALL RXR SIGNS AND MARKINGS.

INTERSECTION 9 - MAPLE AVE / RIDDLE DRUGS
1) INSTALL NORTHBOUND LEFT-TURN LANE WITH 50' OF STORAGE AND 100 FT. OF TAPER.
2) INSTALL RXR WARNING SIGN ON SIDE STREET APPROACH TO SR-61.

INTERSECTION 10 - BROWDER CIRCLE
1) WIDEN MEDIAN OPENING AS SHOWN.
2) INSTALL RXR WARNING SIGN ON SIDE STREET APPROACH TO SR-61.

INTERSECTION 11 - CASH EXPRESS
1) REMOVE MEDIAN OPENING.

INTERSECTION 12 - COMMUNITY BAPTIST CHURCH / BROWDER CIRCLE
1) REMOVE CROSS WALK MARKINGS AND SIGNS.



NOTE TO CONTRACTOR:

ALL WORK TO BE BY THE RAILROAD'S FORCES:
REPLACEMENT OF THE OLD SWING OUT CANTILEVER FLASHING LIGHT CROSSING SIGNALS ON THE EAST SIDE ALONG WEST BOUND LANE(S) OF S.R. 61.
IN ADDITION; UPGRADING OF THE EXISTING INCANDESCENT CROSSING SIGNALS FLASHERS TO 12" LED FLASHERS, INSTALLATION OF BACK-TO-BACK CROSS BUCK SIGNS ON THE MASTS OF ACTIVE WARNING DEVICES, AND INSTALLATION OF OTHER ASSOCIATED TRACK CIRCUITRY.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

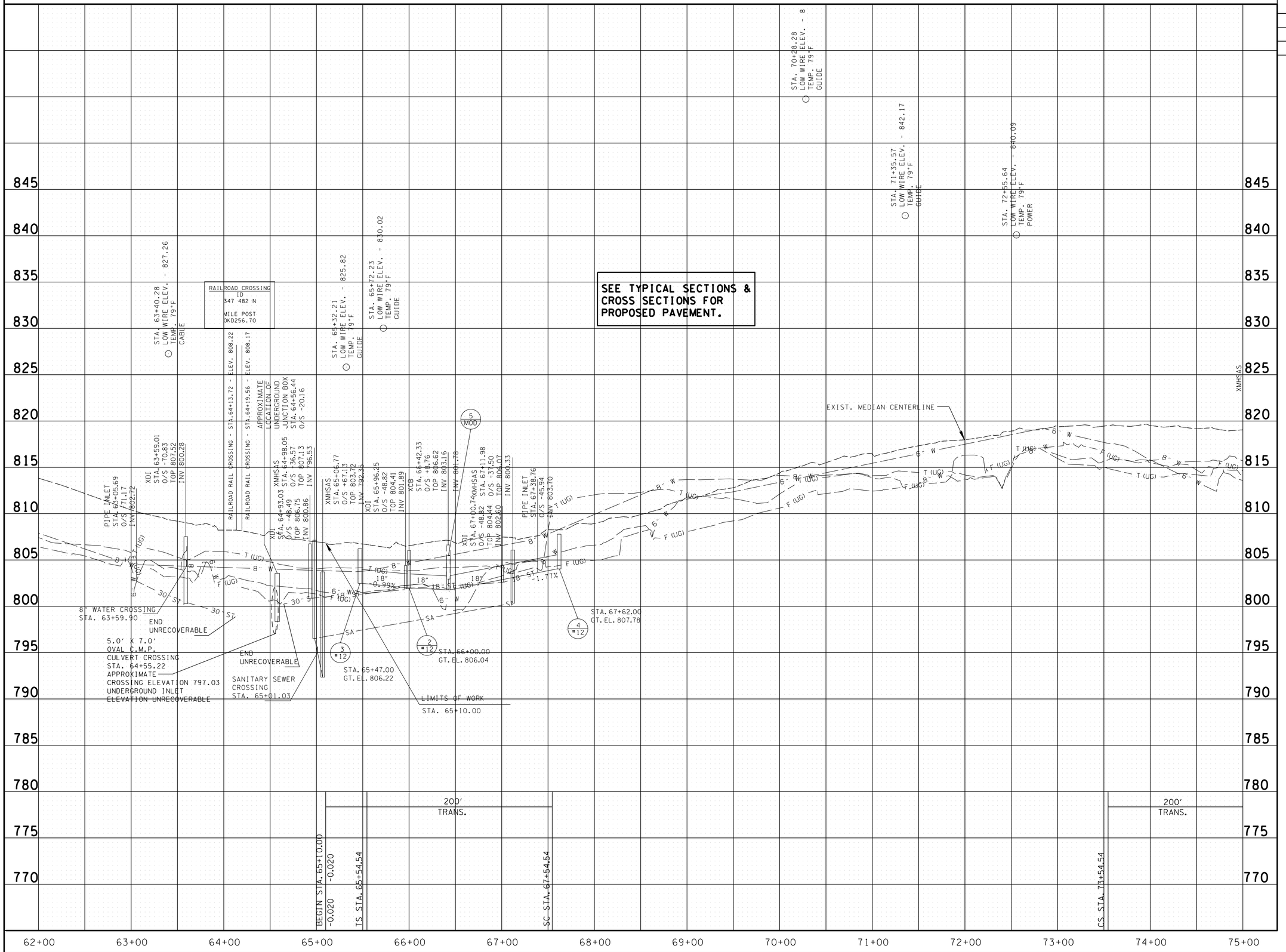
PROPOSED LAYOUT

STA. 62+00 TO STA. 75+00

SCALE: 1"= 50'

2-JUN-2014 14:19
C:\Projects\Anderson SR61\007A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	7B
CONST.	2014	NHTSA-HE-61(28)	7B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

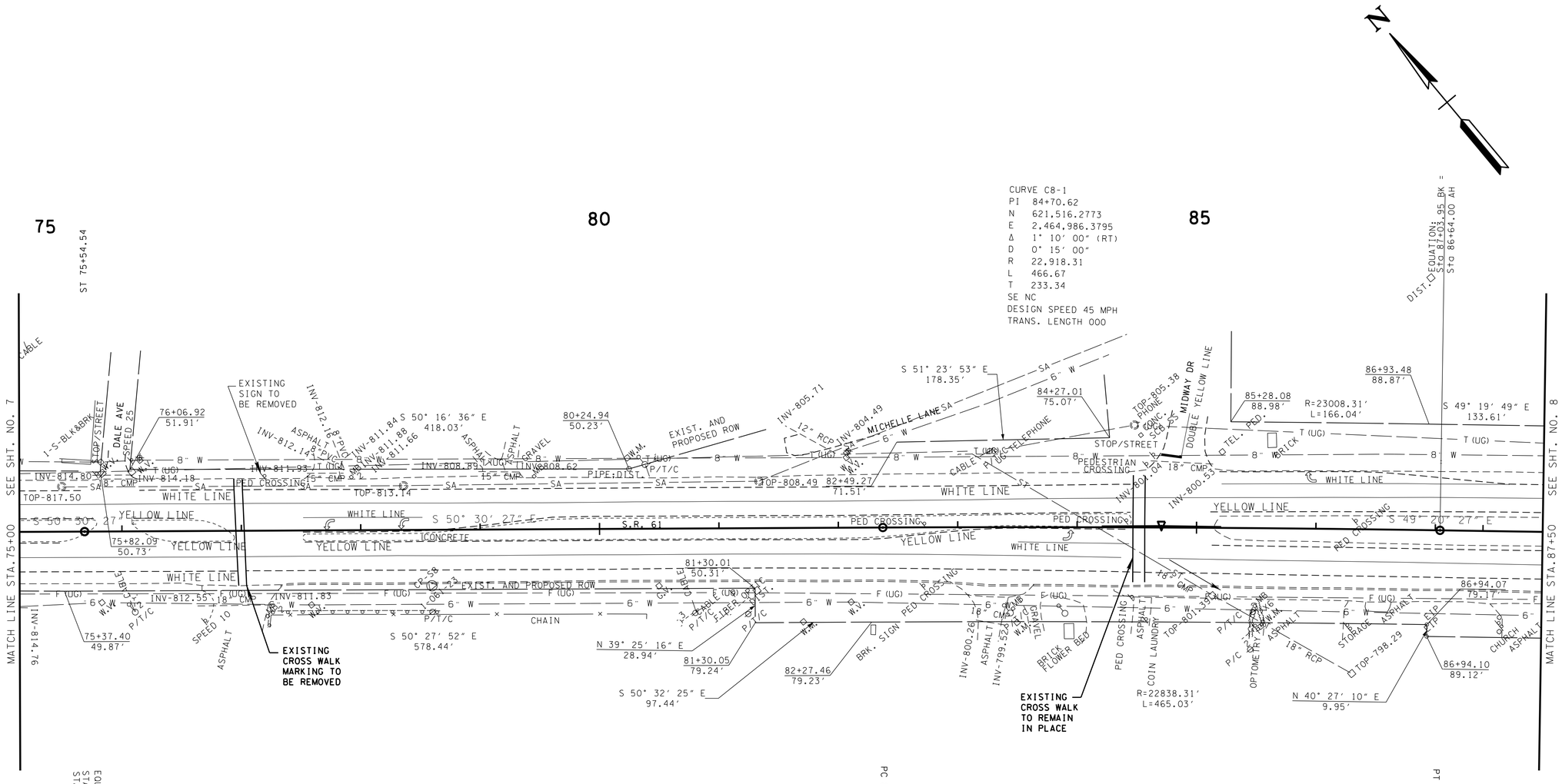
PROFILE

STA. 62+00 TO STA.75+00

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

22-JUN-2014 14:19
C:\Projects\Anderson SR6\007B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	8
CONST.	2014	NHTSA-HE-61(28)	8



POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	FEATURE	DESCRIPTION
S8	621868.81	2464484.87	812.65	78+59.40	46.89	XCP	1-061-23

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

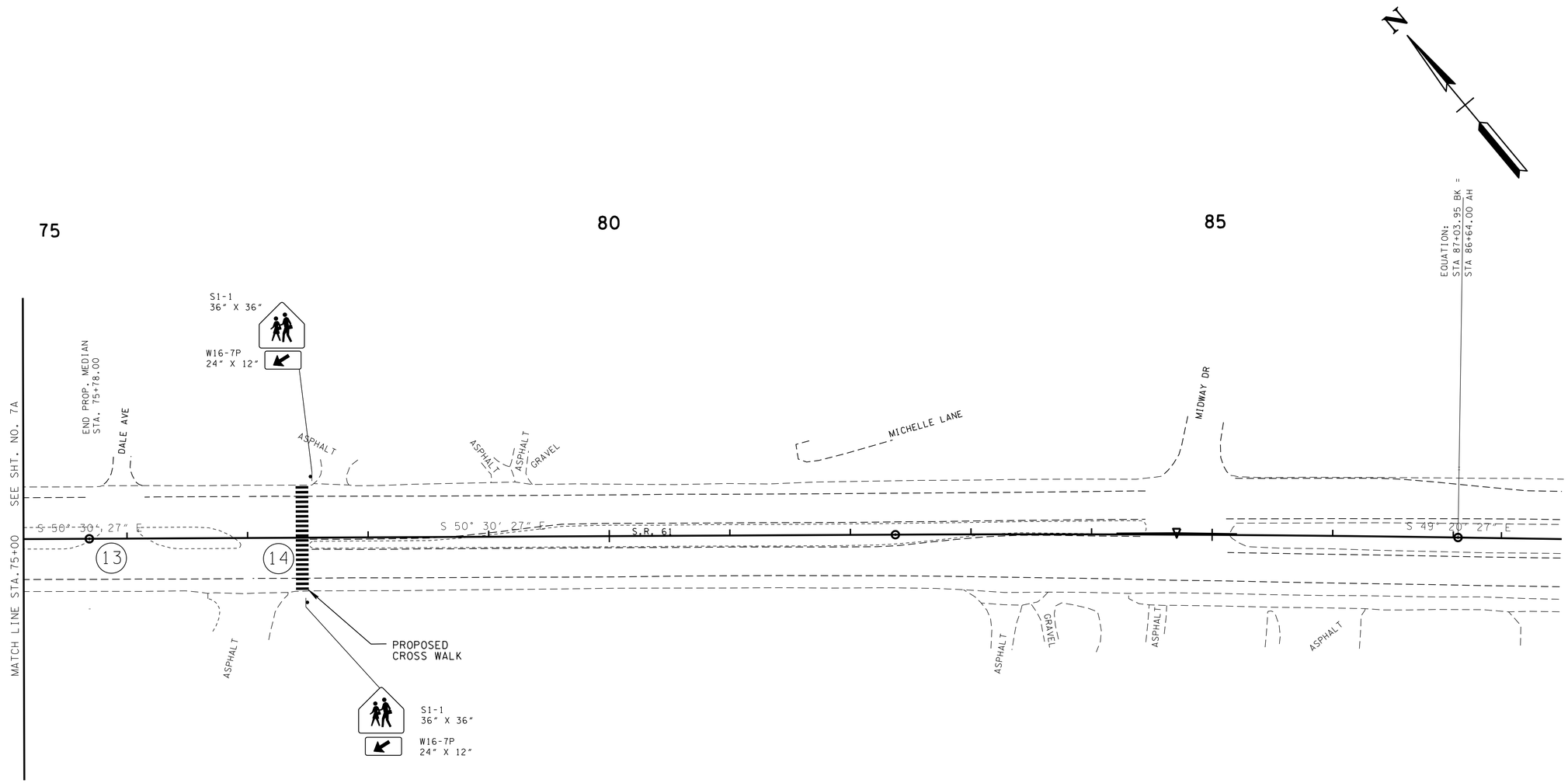
PRESENT LAYOUT

STA. 75+00 TO STA. 87+50

SCALE: 1″= 50′

2-JUN-2014 14:19
C:\Projects\Anderson SR61\008.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	8A
CONST.	2014	NHTSA-HE-61(28)	8A



GUIDANCE

INTERSECTION 13 - DALE AVE.
1) NO CHANGES

INTERSECTION 14 - NORWOOD MIDDLE SCHOOL
1) REMOVE CROSS WALK MARKING AND RELOCATE CROSS WALK TO THE SOUTH AS SHOWN AND INSTALL SIGNS.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

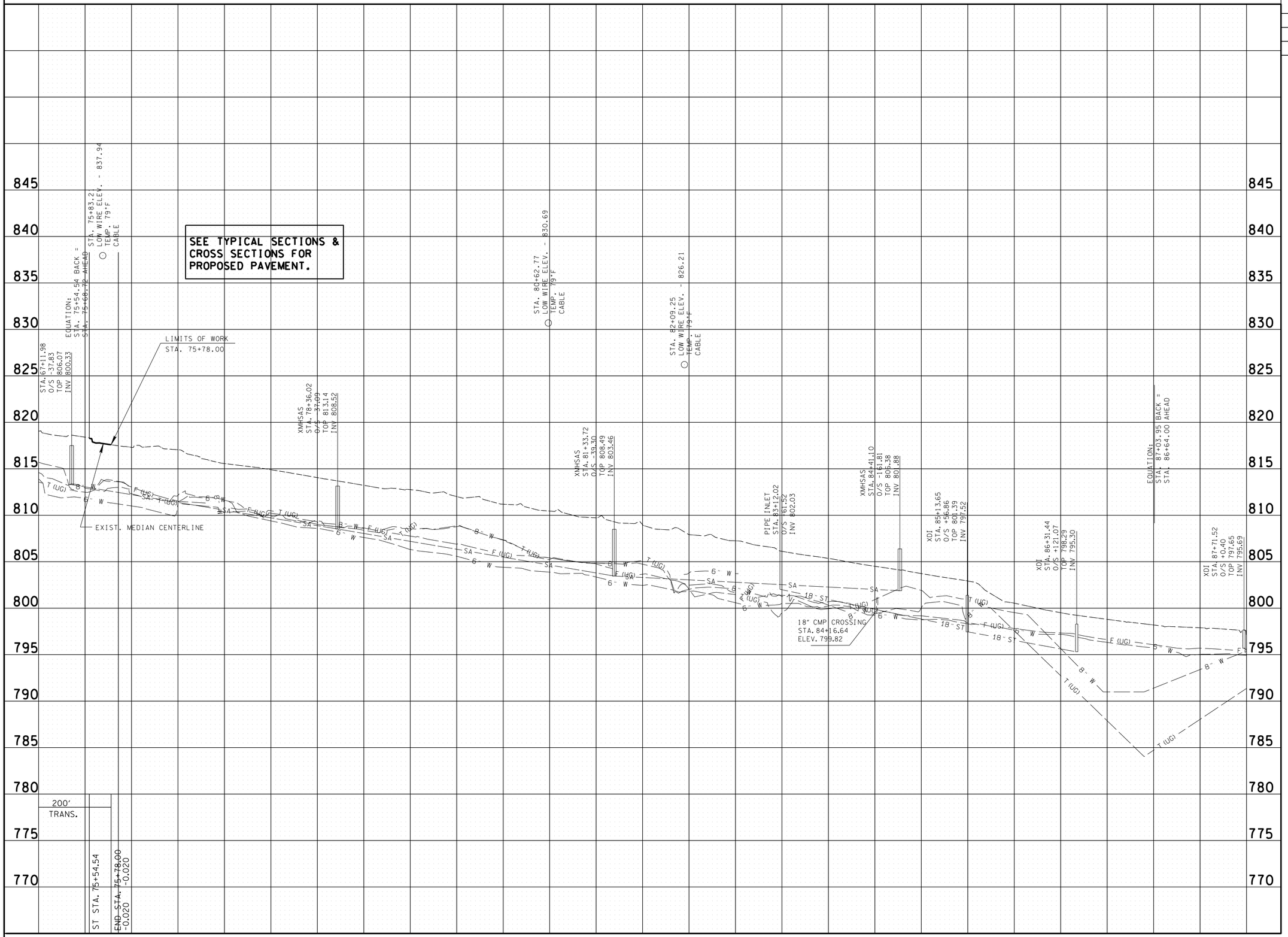
PROPOSED LAYOUT

STA. 75+00 TO STA. 87+50

SCALE: 1"= 50'

2-JUN-2014 14:19
C:\Projects\Anderson SR61\008A.sht

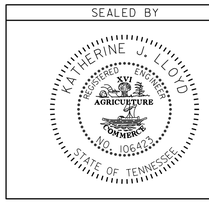
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	8B
CONST.	2014	NHTSA-HE-61(28)	8B



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

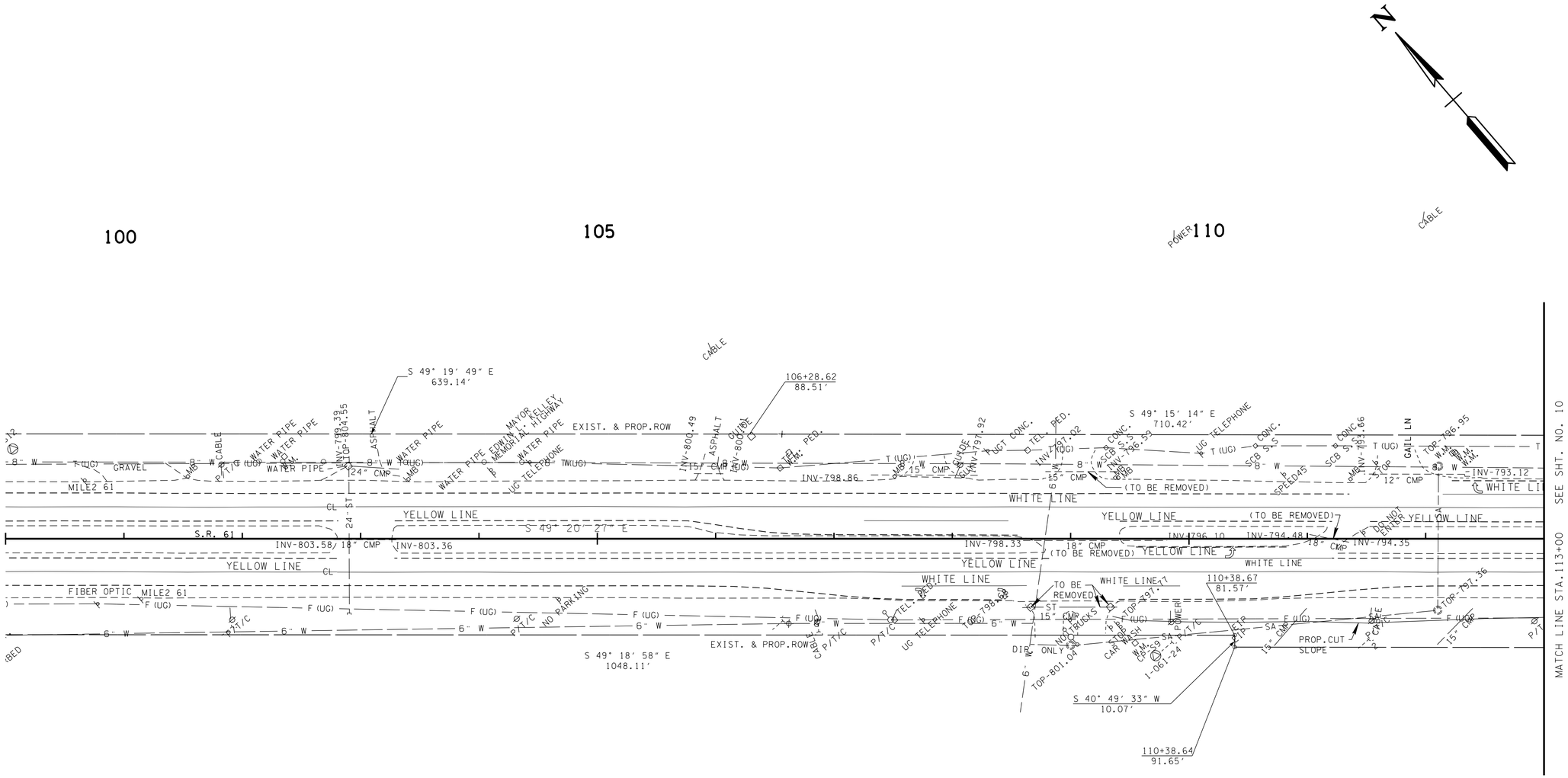
PROFILE

STA. 75+00 TO STA. 87+50

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

02-JUN-2014 14:19
C:\Projects\Anderson SR61\008B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	9
CONST.	2014	NHTSA-HE-61(28)	9



POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	FEATURE	DESCRIPTION
S9	619785.53	2466849.72	803.90	109+71.87	98.87	XCP	1-061-24

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106422
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 100+00 TO STA. 113+00

SCALE: 1"= 50′

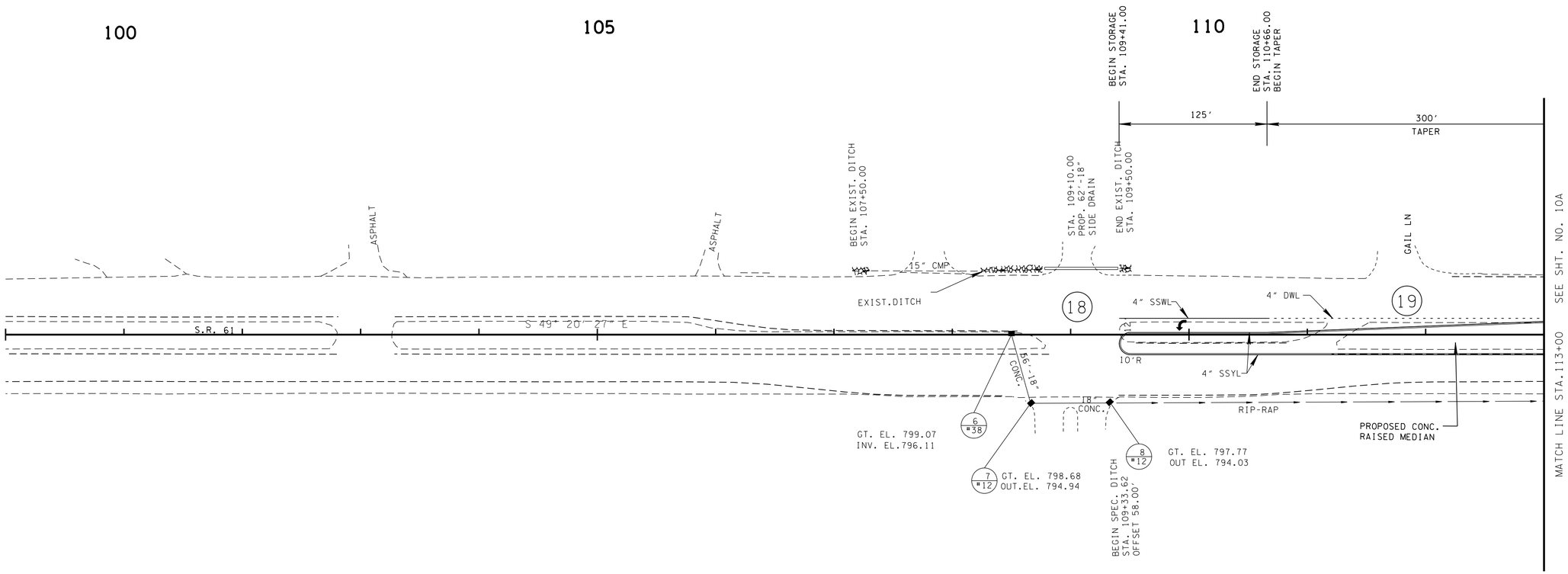
2-JUN-2014 14:19
C:\Projects\Anderson SR61\009.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	9A
CONST.	2014	NHTSA-HE-61(28)	9A

NOTE TO CONTRACTOR:

1)"THE PROPOSED 18" PIPE STA.108+50.00 SHOULD BE BORED, IF IT CAN'T BE BORED AND MUST BE OPEN CUT, THE PAVEMENT ITEMS AND THICKNESS SHOWN ON TYPICAL SECTION FOR THE TURN LANES WILL BE USED TO PAVE OVER THE OPEN CUT."

2)"THE EXISTING DITCH APPROX. LT. STA. 107+50.00 TO LT. STA. 109+50.00 SHALL BE CLEANED OUT AND REWORKED AND LINED WITH GEOTEXTILE AND CLASS A-3 RIP-RAP. THE SIDE DRAIN APPROX. LT. STA. 107+50.00 SHALL BE CLEANED OUT AND THE SIDE DRAIN APPROX. LT. STA. 109+10.00 SHALL BE REPLACED."



GUIDANCE

INTERSECTION 18 - SHOPPING CENTER (NORTH) / PIZZA HUT
1) CONSTRUCT NORTHBOUND LEFT-TURN LANE WITH 125 FT. OF STORAGE AND 300 FT. OF TAPER.

INTERSECTION 19 - GAIL LANE
1) REMOVE PARTIAL OPENING.

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

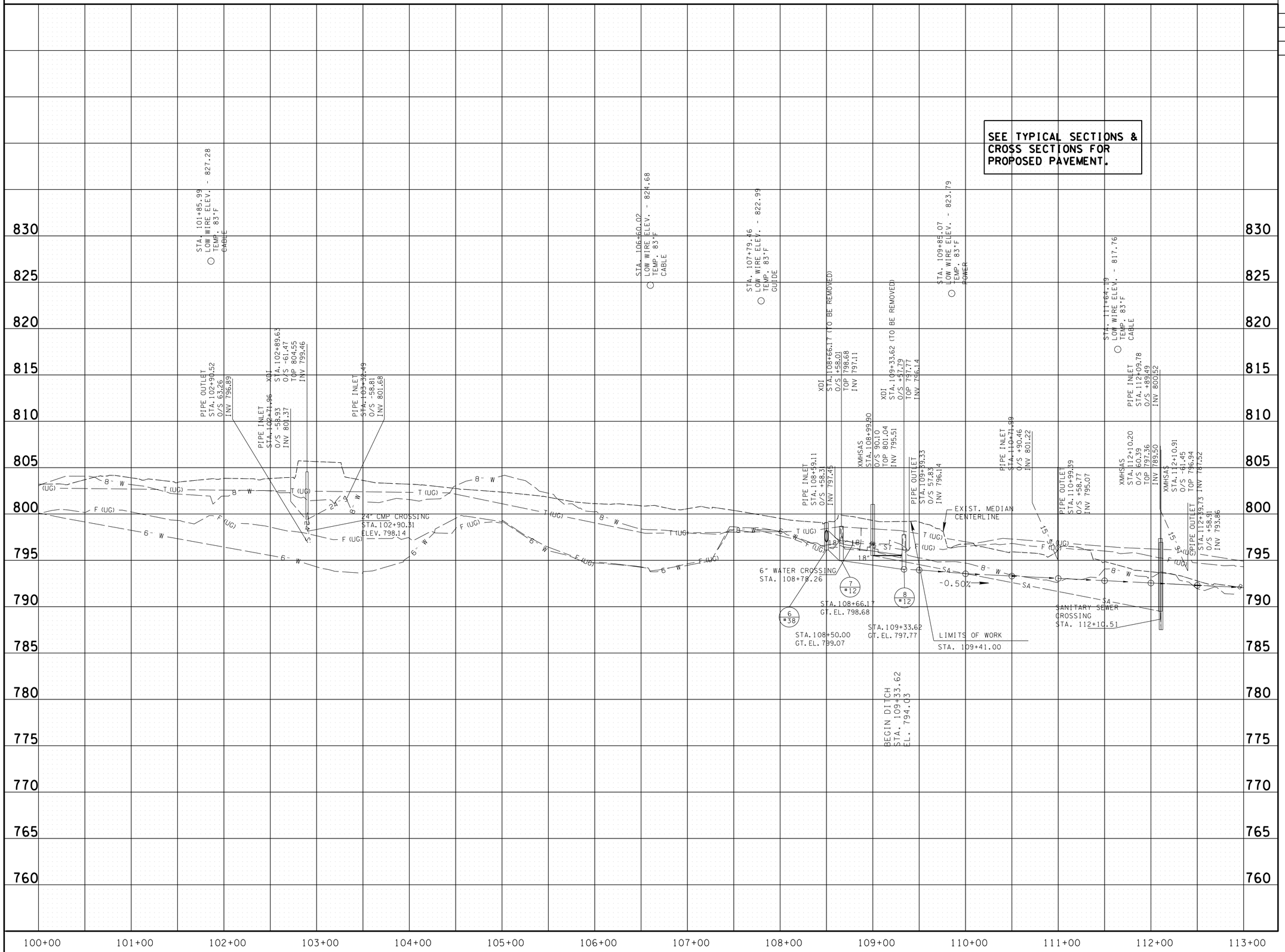
PROPOSED LAYOUT

STA. 100+00 TO STA. 113+00

SCALE: 1"= 50'

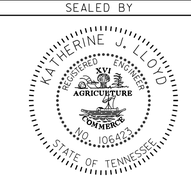
2-JUN-2014 14:19
c:\Projects\Anderson SR61\009A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	9B
CONST.	2014	NHTSA-HE-61(28)	9B



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

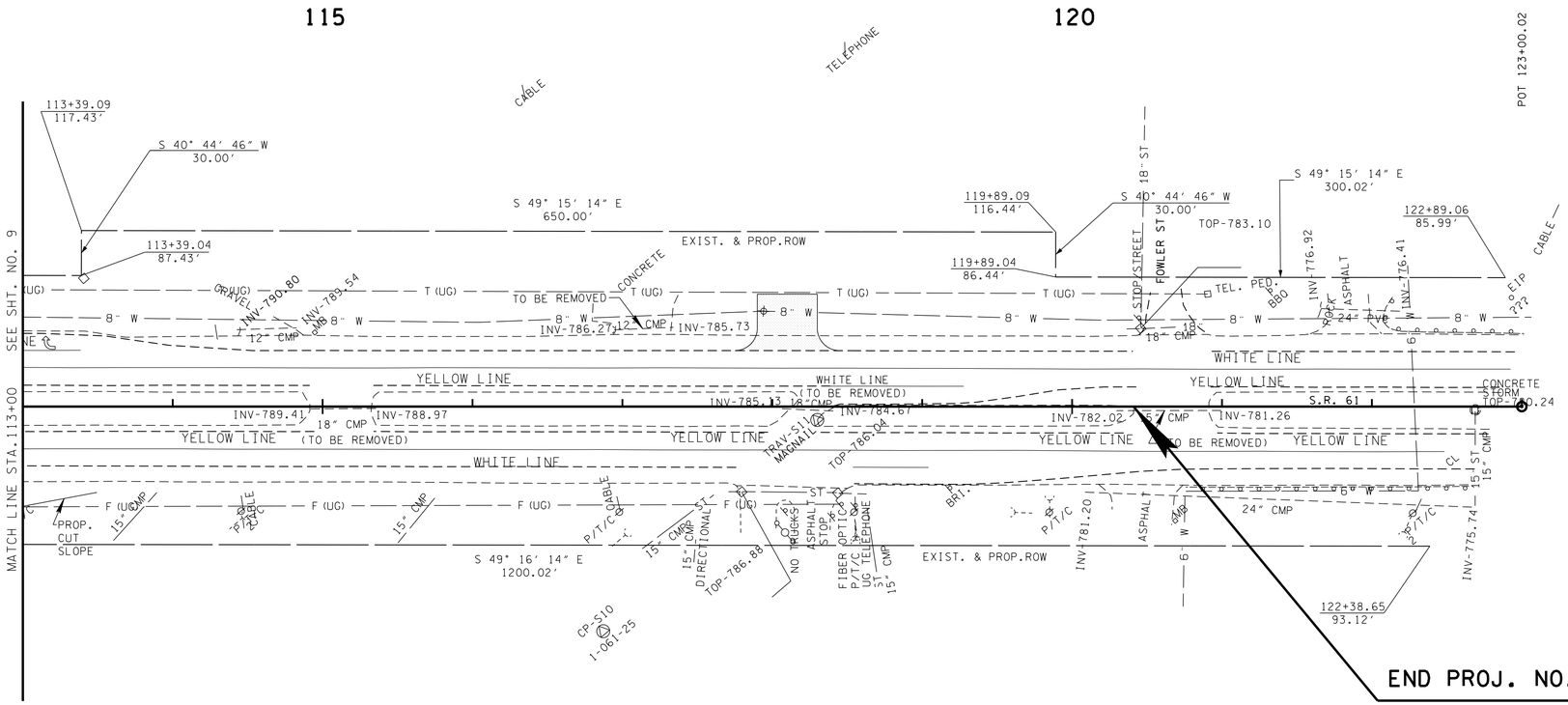
PROFILE

STA. 100+00 TO STA.113+00

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

2-JUN-2014 14:19
C:\Projects\Anderson SR61\009B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	10
CONST.	2014	NHTSA-HE-61(28)	10



97001-3238-04

END PROJ. NO. NHTSA-HE-61(28) (CONST.)

STA. 120+41.00 (L.M. 2.34)

N 619163.9298

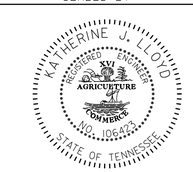
E 2467725.1801

POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET	FEATURE	DESCRIPTION
S10	619280.77	2467359.16	800.09	116+87.21	149.85	XCP	1-061-25

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 113+00 TO END OF PROJ

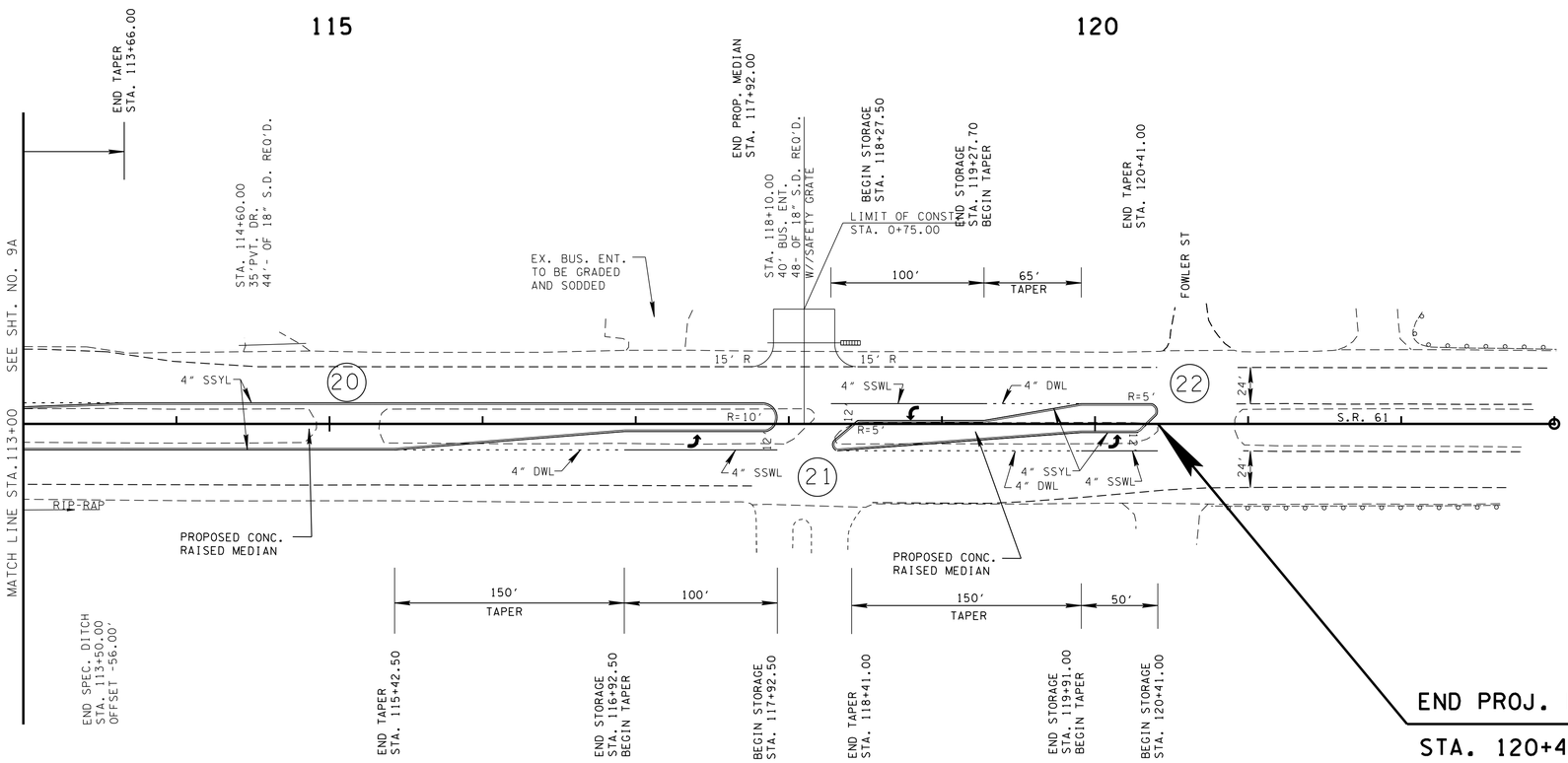
SCALE: 1"= 50'

2-JUN-2014 14:19
c:\Projects\Anderson SR61\010.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	10A
CONST.	2014	NHTSA-HE-61(28)	10A

NOTE TO CONTRACTOR:

THE SIDE DRAIN APPROX. STA. 114+60.00 (LT.) SHALL BE REPLACED.



97001-3238-04

END PROJ. NO. NHTSA-HE-61(28) (CONST.)

STA. 120+41.00 (L.M. 2.34)

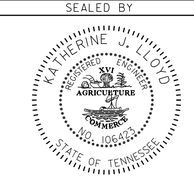
N 619163.9298

E 2467725.1801

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



COORDINATES ARE NAD/B31(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 113+00 TO END OF PROJ

SCALE: 1"= 50'

GUIDANCE

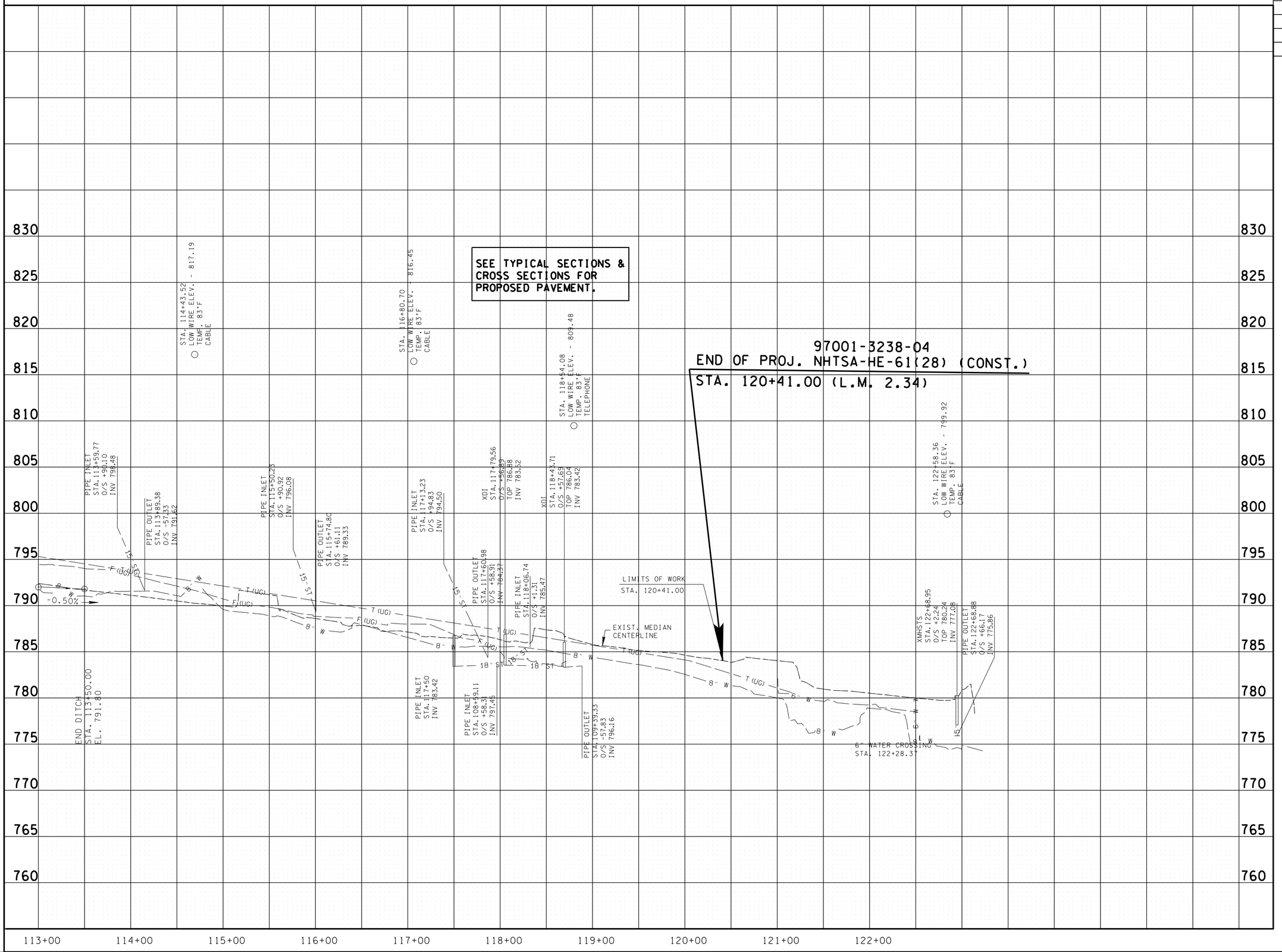
INTERSECTION 20 - RESIDENTIAL DRIVE
1) REMOVE OPENING.

INTERSECTION 21 - SHOPPING CENTER SOUTH
1) CONSTRUCT SOUTHBOUND LEFT-TURN LANE WITH 100 FT. OF STORAGE AND 150 FT. OF TAPER.
2) RELOCATE ACCESS TO ACE HARDWARE.
3) IMPROVE DRIVEWAY RADIUS AND INSTALL SAFETY GRATE FOR DRAIN.

INTERSECTION 22 - FOWLER STREET
1) CONSTRUCT SOUTHBOUND LEFT-TURN LANE WITH 50 FT. OF STORAGE AND 150 FT. OF TAPER.

2-JUN-2014 14:19
C:\Projects\Anderson SR61\010A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	10B
CONST.	2014	NHTSA-HE-61(28)	10B



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

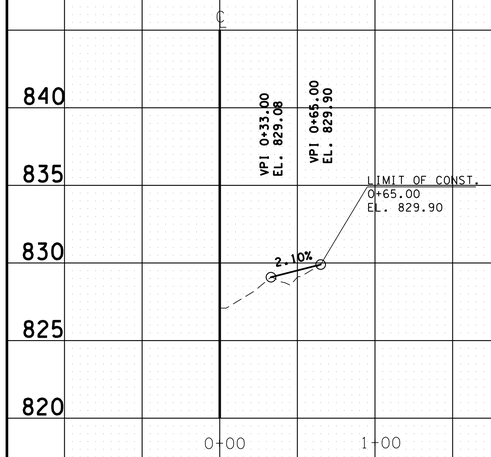
PROFILE

STA. 113+00 TO END OF PROJ.

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

12-JUN-2014 14:19
C:\Projects\Anderson SR61\010B.sht

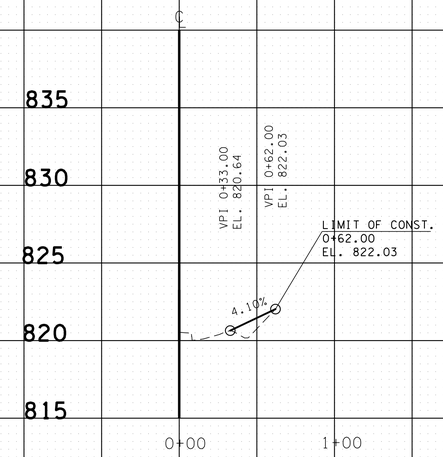
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	11
CONST.	2014	NHTSA-HE-61(28)	11



42' BUSINESS ENT. LT. STA. 57+76.00

(HARDEES & RACEWAY)

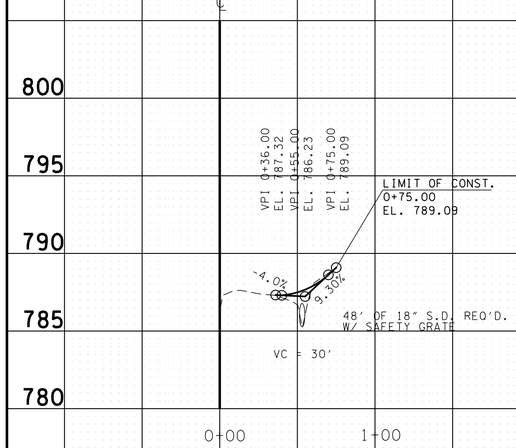
(SHEET 6A)



40' BUSINESS ENT. LT. STA. 59+93.00

(RACEWAY)

(SHEET 6A)



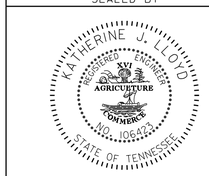
40' BUSINESS ENT. LT. STA. 118+10.00

(SHEET 10A)

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE

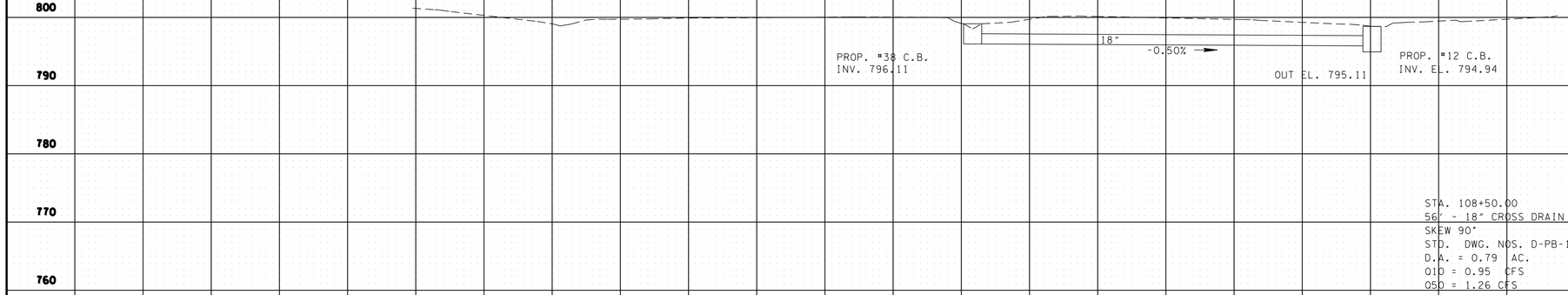
DEPARTMENT OF TRANSPORTATION

PROFILE OF BUSINESS ENTRANCES

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

2-JUN-2014 14:19
C:\Projects\Anderson SR61\01.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHTSA-HE-61(28)	12



UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

SCALE: 1"=10 ' HORIZ.
1"=10' VERT.

12-JUN-2014 14:19
C:‡Projects‡Anderson SR61‡0122.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	12
CONST.	2014	NHTSA-HE-61(28)	13

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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 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 LIMITATION 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 INTO 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.

UTILITY RELOCATION

(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 POLLUTIONS 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.

OUTFALLS

OUTFALL NO.	DRAINAGE AREA ACRES
1	2.89
2	1.99
3	3.30
4	2.98
5	3.90
6	3.00

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	14
	209-05	SEDIMENT REMOVAL	C.Y.	1097
	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	4050
2				
	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	6
	209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	6
1	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	100
1	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	172
2,3	740-11.04	TEMPORARY SEDIMENT TUBE 20IN (EROSION CONTROL)	L.F.	500
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	3
	801-03	WATER (SEEDING & SODDING)	M.G.	1
	803-01	SODDING (NEW SOD)	S.Y.	293

1. FOR TEMPORARY CONSTRUCTION EXITS.
2. SEE SUBSECTION 209.07 OF THE STD. SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
3. TO BE USED AS DIRECTED BY THE ENGINEER.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

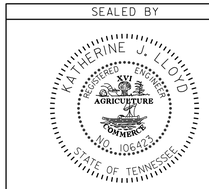
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
TCE	TEMPORARY CONSTRUCTION EXIT *	EC-STR-25
** TUBE ** TUBE **	SEDIMENT TUBE **	EC-STR-37
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41

* UTILIZE EXISTING ROADWAY AS TEMPORARY CONSTRUCTION ROAD ENTRANCE AND/OR EXIT BY LIMITING THE LOCATION OF THE EXIT ROAD WITHIN 50' (FEET) FROM THE BEGIN/END OF PROJECT.

** TO BE USED WHERE AS DIRECTED BY THE ENGINEER.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

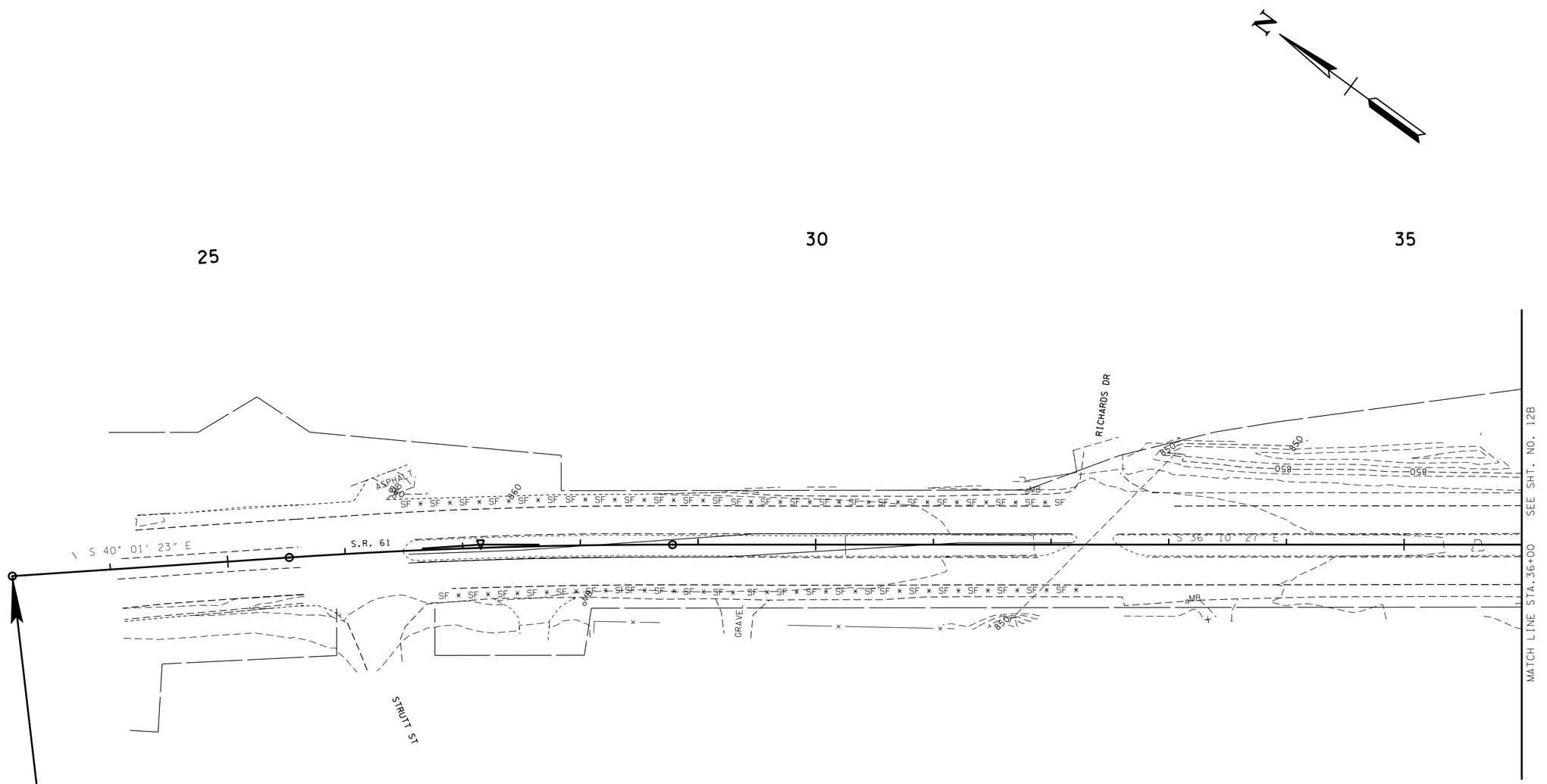


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

12-JUN-2014 14:19
c:\Projects\Anderson SR61\012.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	12A
CONST.	2014	NHTSA-HE-61(28)	13A



97001-3238-04
BEGIN PROJ. NO. NHTSA-HE-61(28) (CONST.)

STA. 23+16.53 (L.M. 0.50)

N 625682.1505
E 2460585.9193

NOTE: SHOWING EXISTING CONTOURS

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

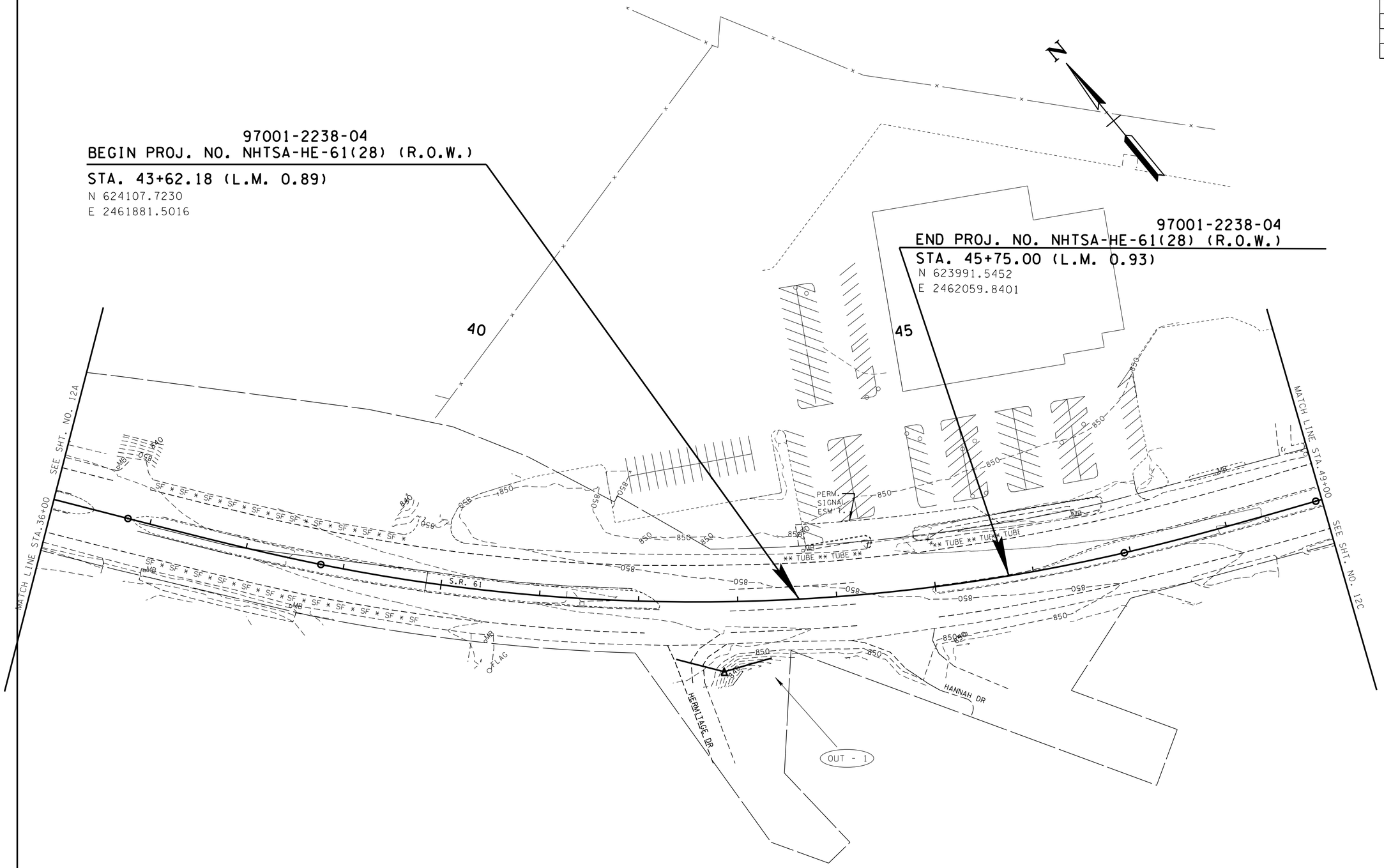
E.P.S.C. PLAN PHASE I CLEARING & GRUBBING

BEGIN OF PROJ. TO STA. 36+00

SCALE: 1"= 50'

2-JUN-2014 14:21
C:\Projects\Anderson SR61\012A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	12B
CONST.	2014	NHTSA-HE-61(28)	13B



NOTE: SHOWING EXISTING CONTOURS

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

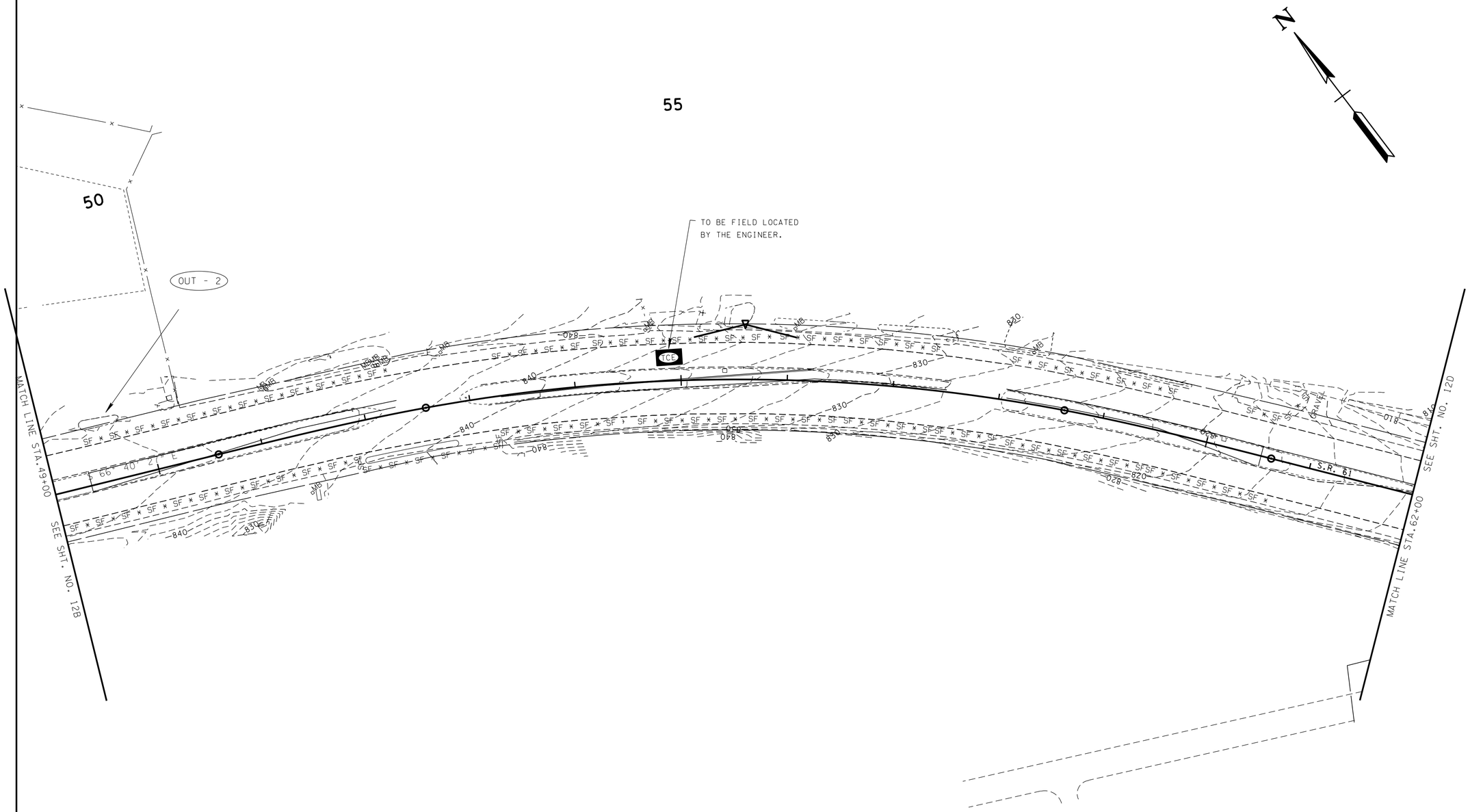
E.P.S.C. PLAN PHASE I CLEARING & GRUBBING

STA. 36+00 TO STA. 49+00

SCALE: 1"= 50'

2-JUN-2014 14:21
C:\Projects\Anderson SR61\012b.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	12C
CONST.	2014	NHTSA-HE-61(28)	13C



NOTE: SHOWING EXISTING CONTOURS

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106422
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

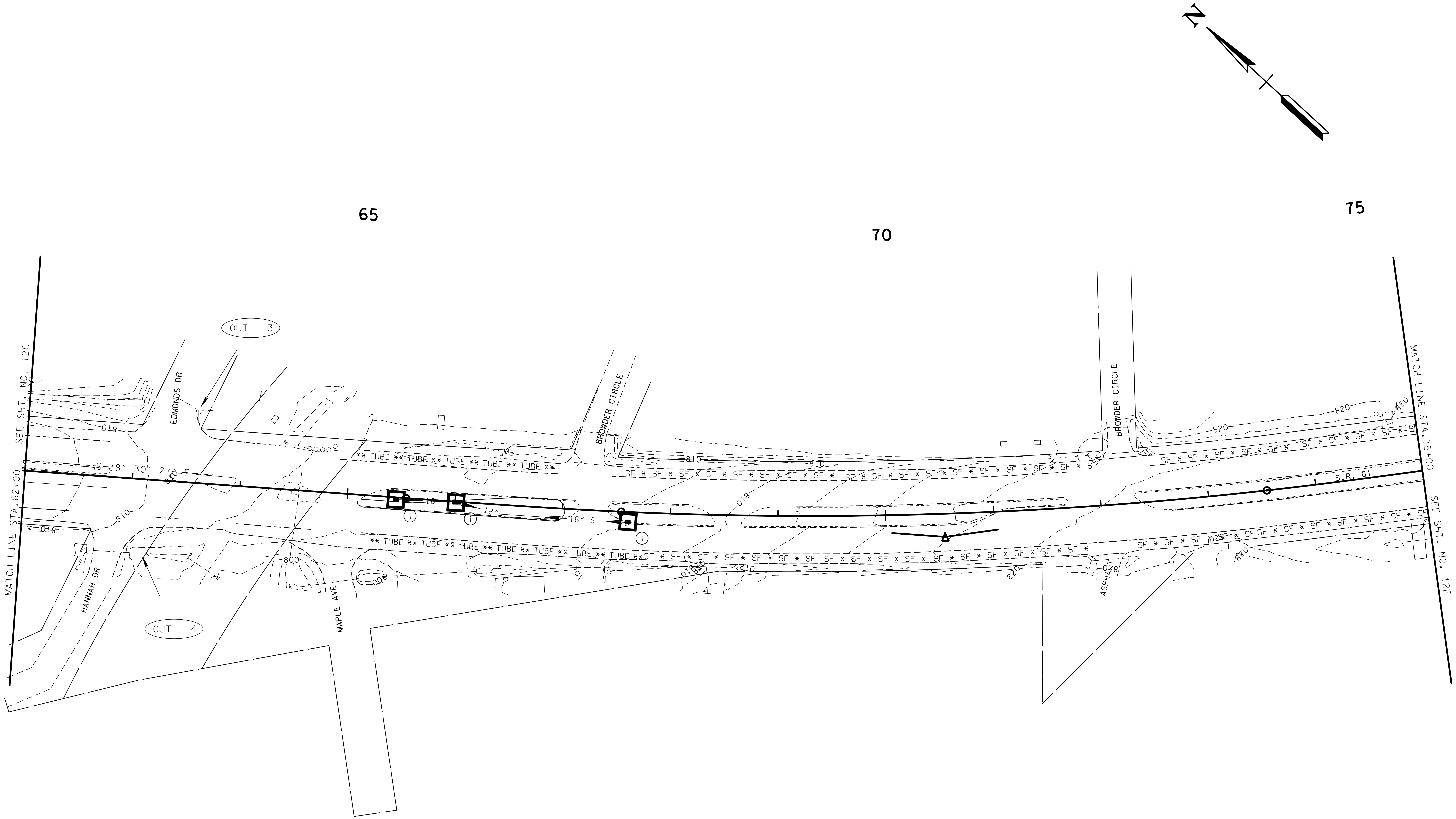
E.P.S.C. PLAN PHASE I CLEARING & GRUBBING

STA. 49+00 TO STA. 62+00

SCALE: 1"= 50'

2-JUN-2014 14:21
C:\Projects\Anderson SR61\012c.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	12D
CONST.	2014	NHTSA-HE-61(28)	13D



NOTE: SHOWING EXISTING CONTOURS

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

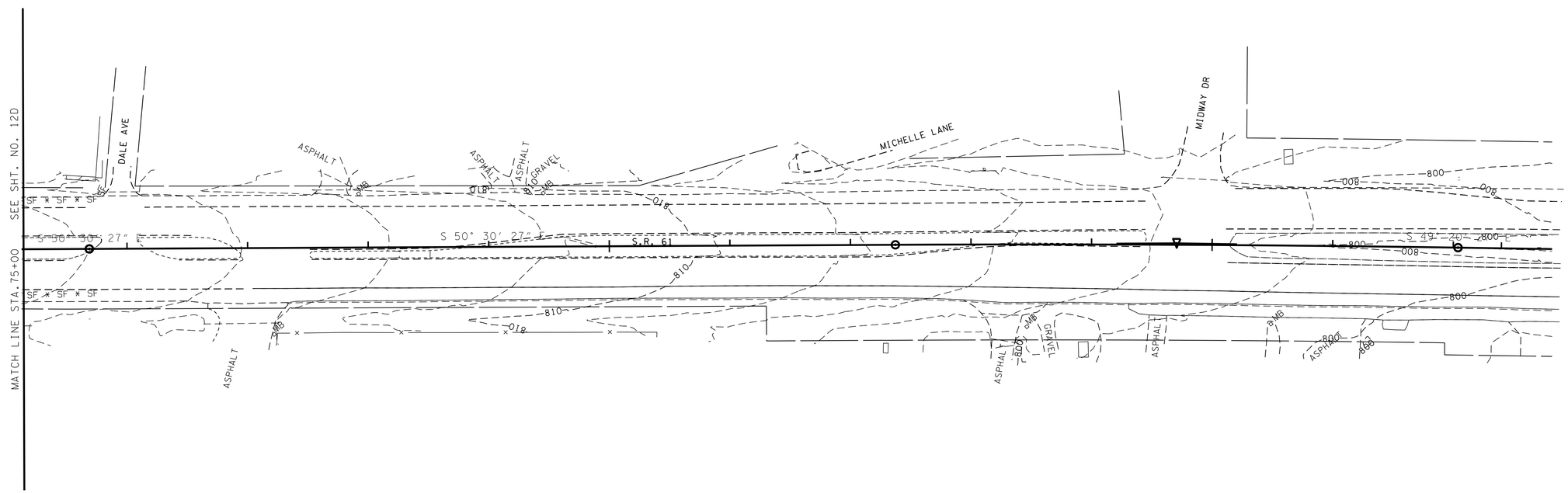
E.P.S.C. PLAN PHASE I CLEARING & GRUBBING

STA. 62+00 TO STA. 75+00

SCALE: 1"= 50'

2-JUN-2014 14:21
c:\Projects\Anderson SR61\012d.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	12E
CONST.	2014	NHTSA-HE-61(28)	13E



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106422
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

E.P.S.C. PLAN PHASE I CLEARING & GRUBBING

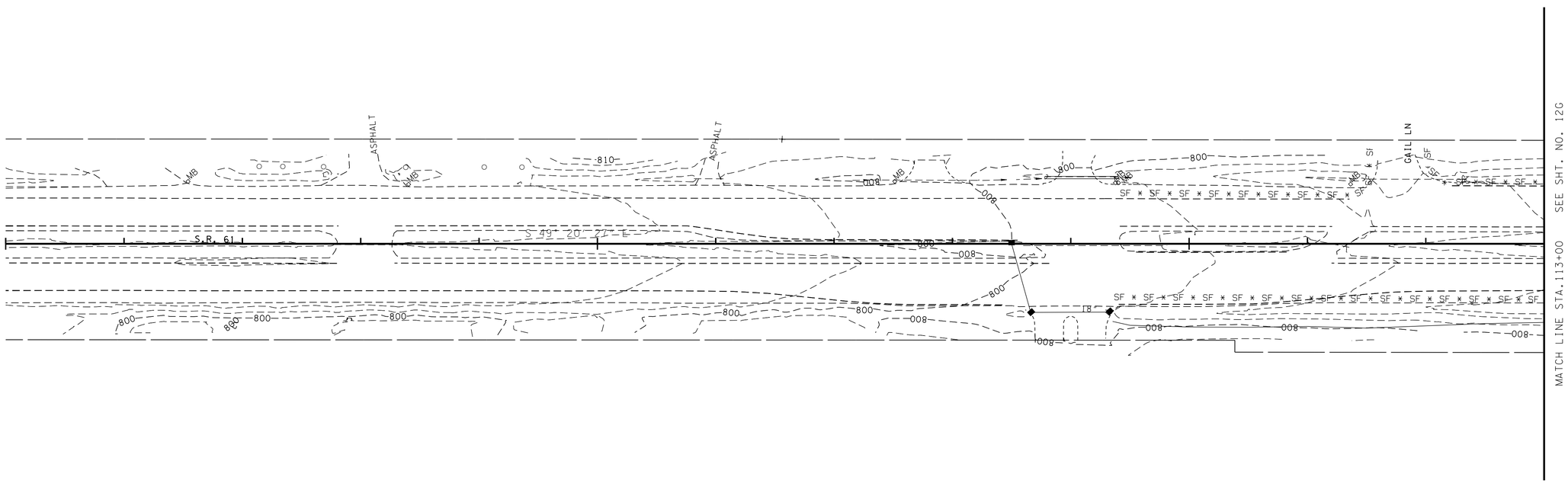
STA. 75+00 TO STA. 87+50

SCALE: 1"= 50'

NOTE: SHOWING EXISTING CONTOURS

2-JUN-2014 14:21
C:\Projects\Anderson SR61\012e.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	12F
CONST.	2014	NHTSA-HE-61(28)	13F



NOTE: SHOWING EXISTING CONTOURS

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

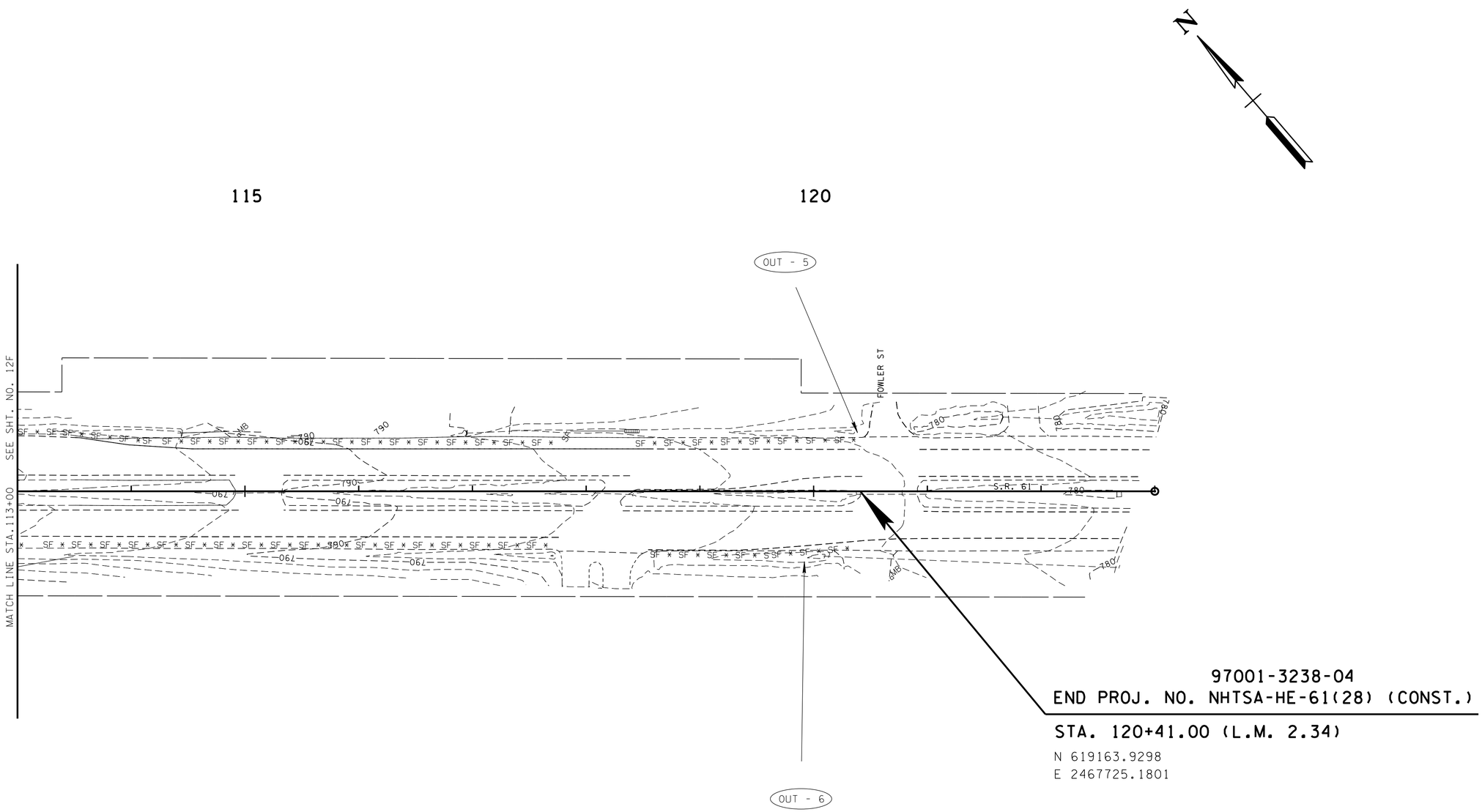
E.P.S.C. PLAN PHASE I CLEARING & GRUBBING

STA. 100+00 TO STA. 113+00

SCALE: 1"= 50'

12-JUN-2014 14:21
C:\Projects\Anderson SR61\012f.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	12G
CONST.	2014	NHTSA-HE-61(28)	13G



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/B3(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

E.P.S.C. PLAN PHASE I CLEARING & GRUBBING

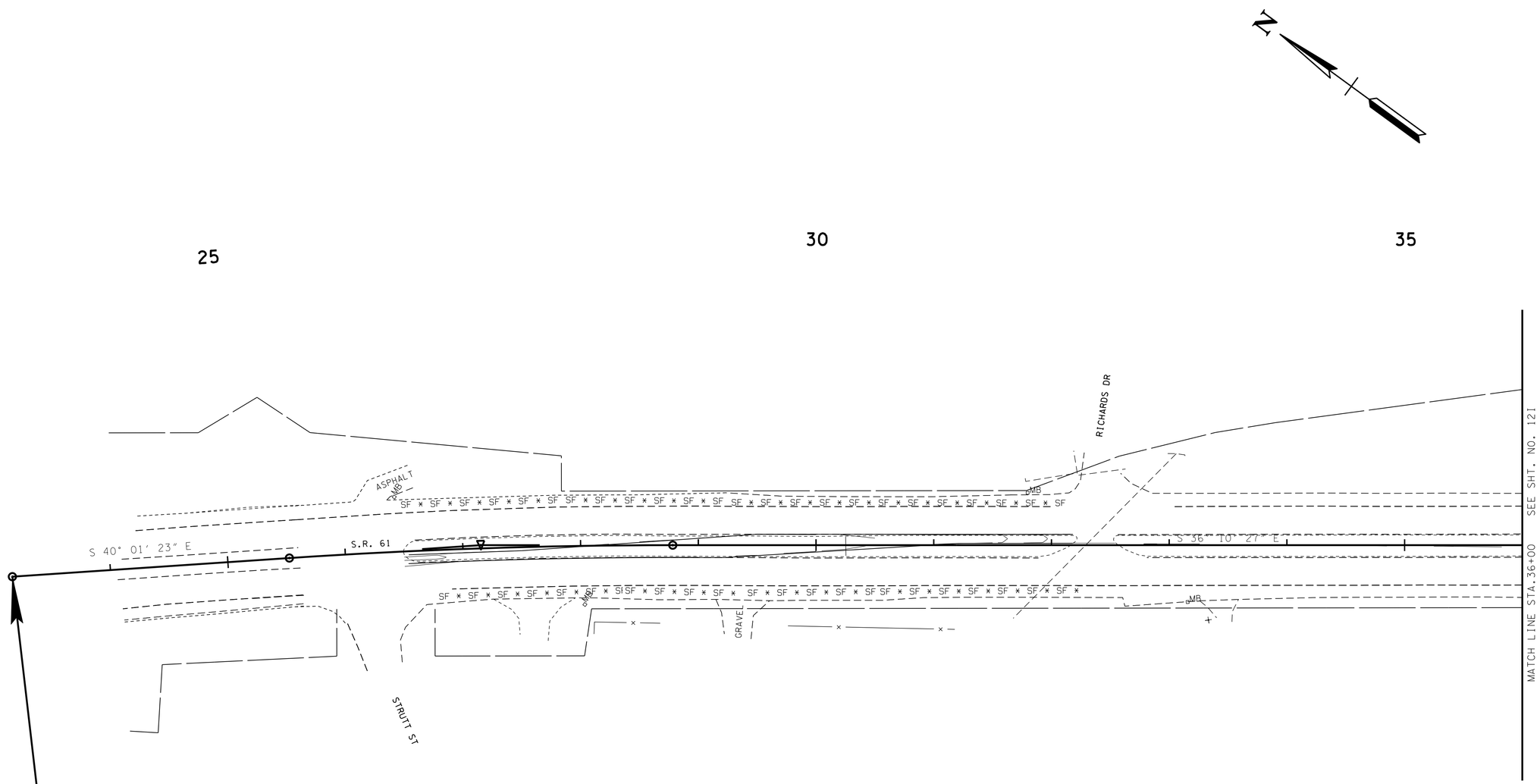
STA. 113+00 TO END OF PROJ.

SCALE: 1"= 50'

NOTE: SHOWING EXISTING CONTOURS

2-JUN-2014 14:21
C:\Projects\Anderson SR61\012g.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	12H
CONST.	2014	NHTSA-HE-61(28)	13H



97001-3238-04
BEGIN PROJ. NO. NHTSA-HE-61(28) (CONST.)

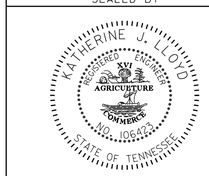
STA. 23+16.53 (L.M. 0.50)

N 625682.1505
E 2460585.9193

NOTE: SHOWING PROPOSED CONTOURS

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

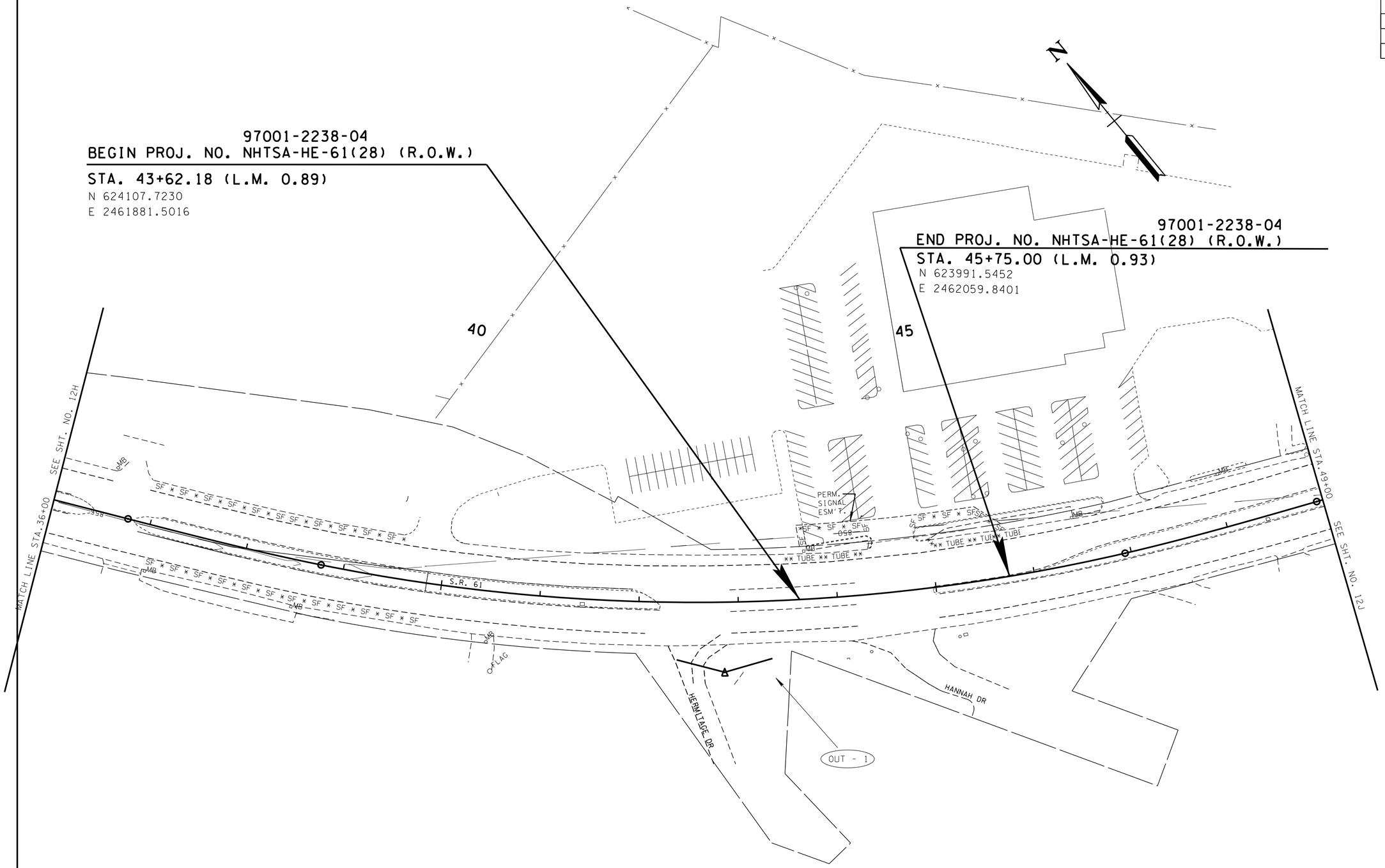
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

E.P.S.C.
PLAN
PHASE II

BEGIN OF PROJ.TO STA.36+00
SCALE: 1"= 50'

2-JUN-2014 14:21
C:\Projects\Anderson SR61\012h.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	12I
CONST.	2014	NHTSA-HE-61(28)	13I



NOTE: SHOWING PROPOSED CONTOURS

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106473
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

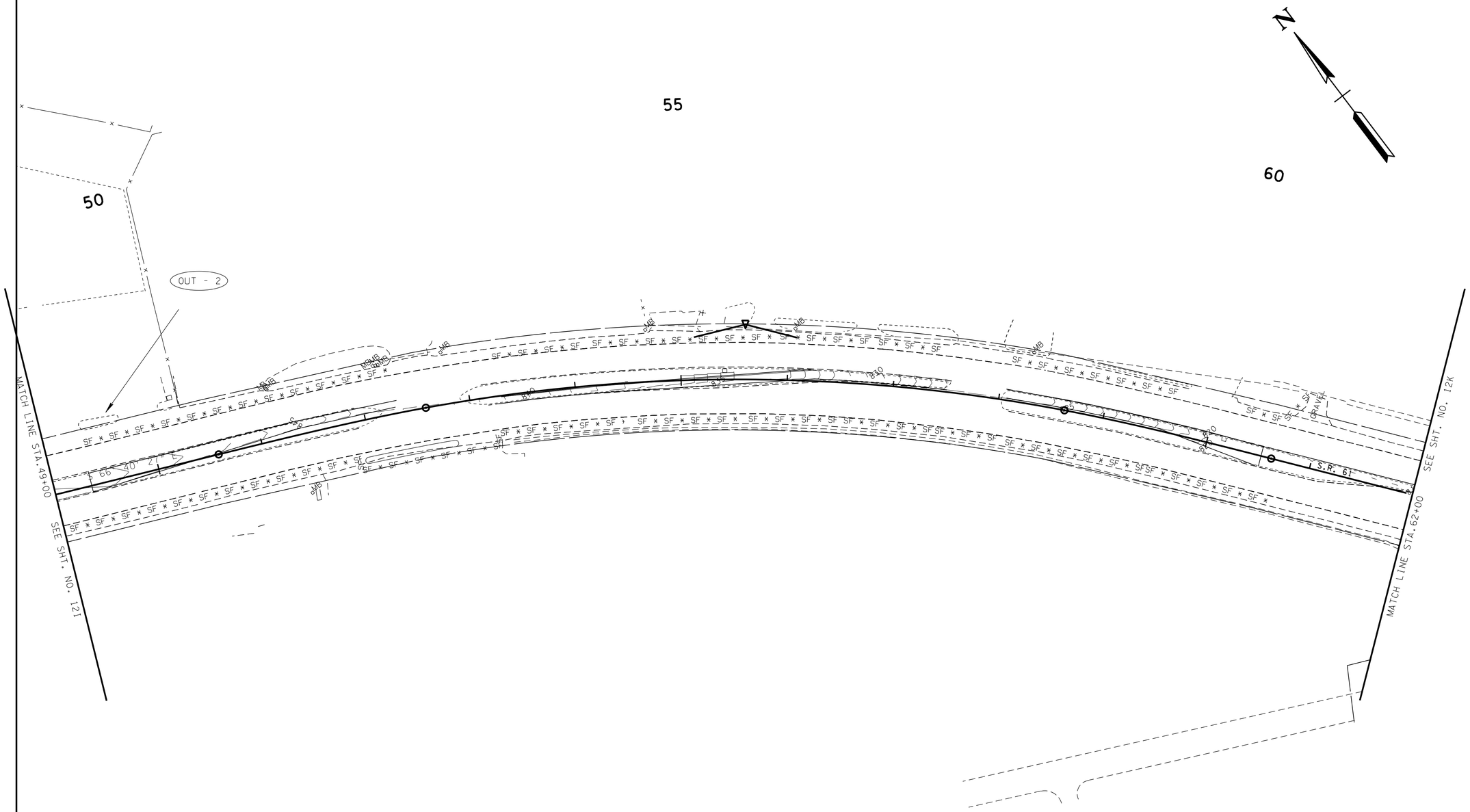
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

E.P.S.C. PLAN PHASE II

STA. 36+00 TO STA. 49+00
SCALE: 1"= 50'

2-JUN-2014 14:21
C:\Projects\Anderson SR61\012I.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	12J
CONST.	2014	NHTSA-HE-61(28)	13J



NOTE: SHOWING PROPOSED CONTOURS

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

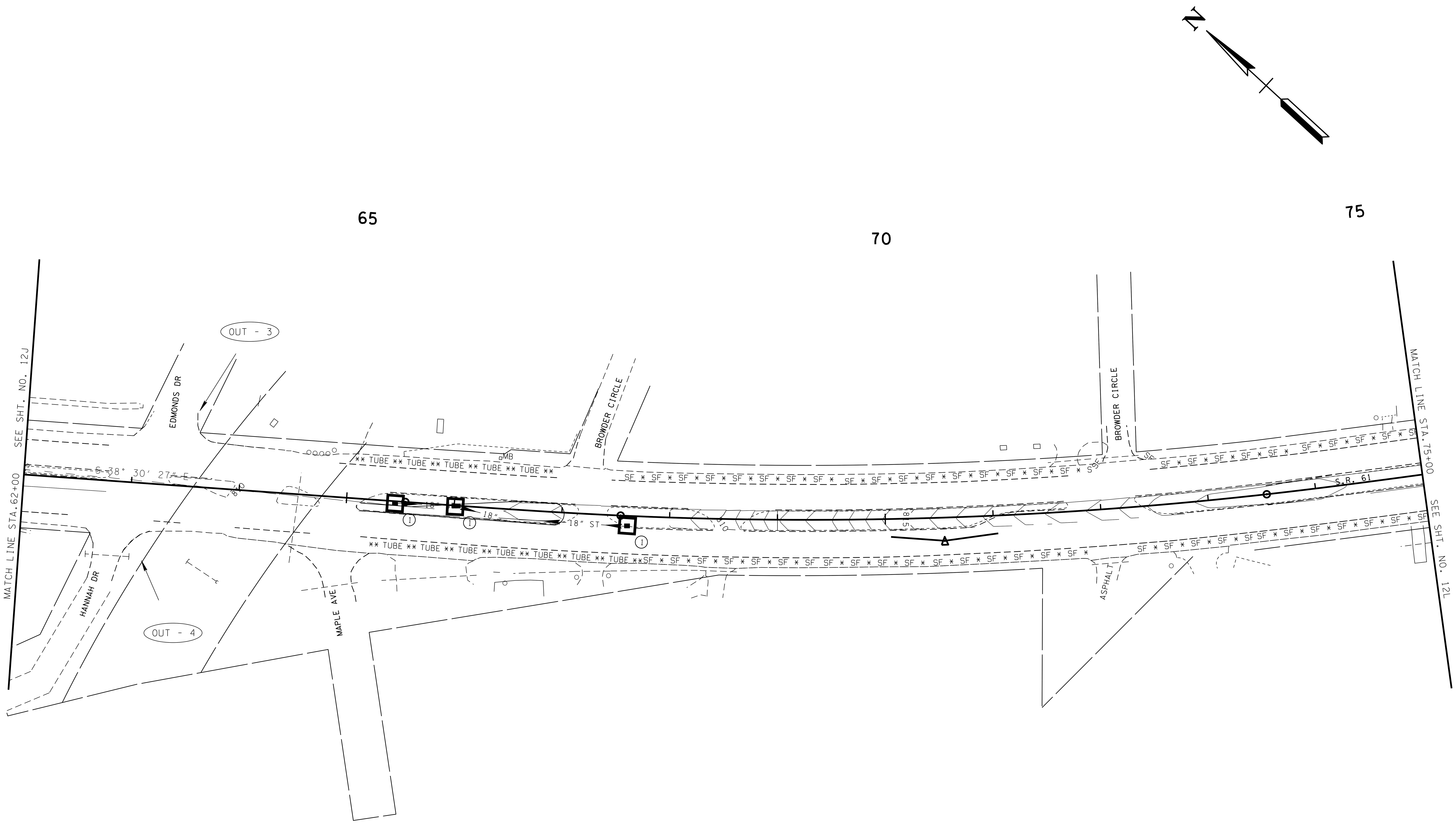
E.P.S.C. PLAN PHASE II

STA. 49+00 TO STA. 62+00

SCALE: 1"= 50'

2-JUN-2014 14:21
C:\Projects\Anderson SR61\012j.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	12K
CONST.	2014	NHTSA-HE-61(28)	13K



UNOFFICIAL SET

NOT FOR BIDDING

NOTE: SHOWING PROPOSED CONTOURS

SEALED BY

KATHERINE J. LLOYD
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 106423
STATE OF TENNESSEE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

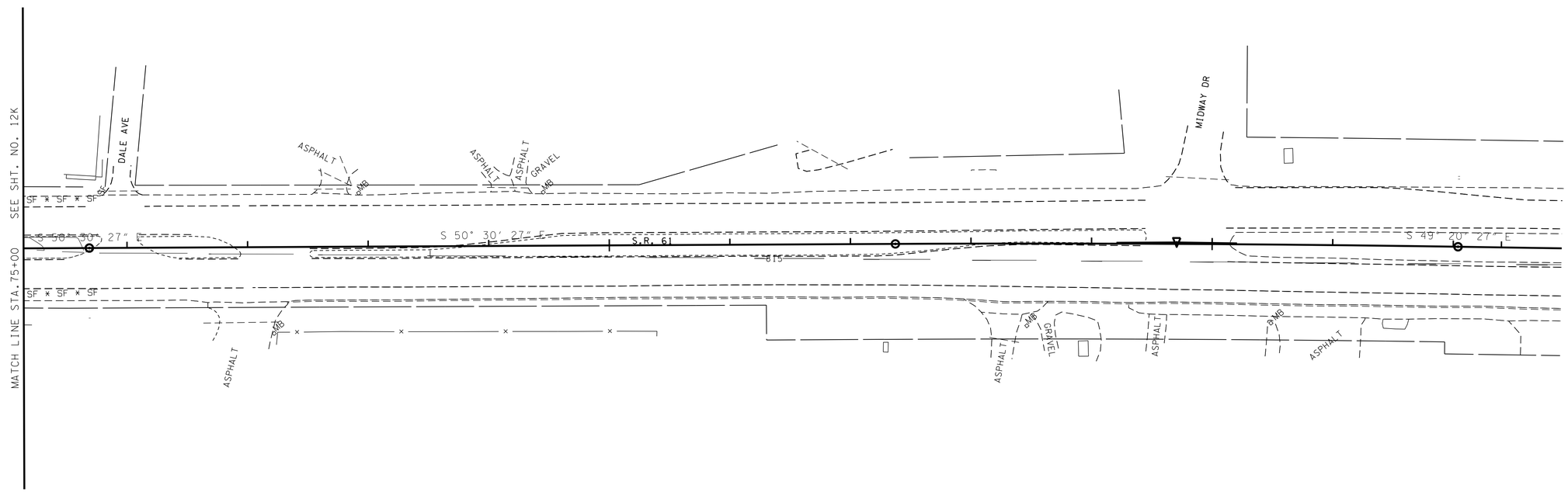
E.P.S.C. PLAN PHASE II

STA. 62+00 TO STA. 75+00

SCALE: 1"= 50'

2-JUN-2014 14:21
C:\Projects\Anderson SR61\012k.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	12L
CONST.	2014	NHTSA-HE-61(28)	13L



UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

E.P.S.C. PLAN PHASE II

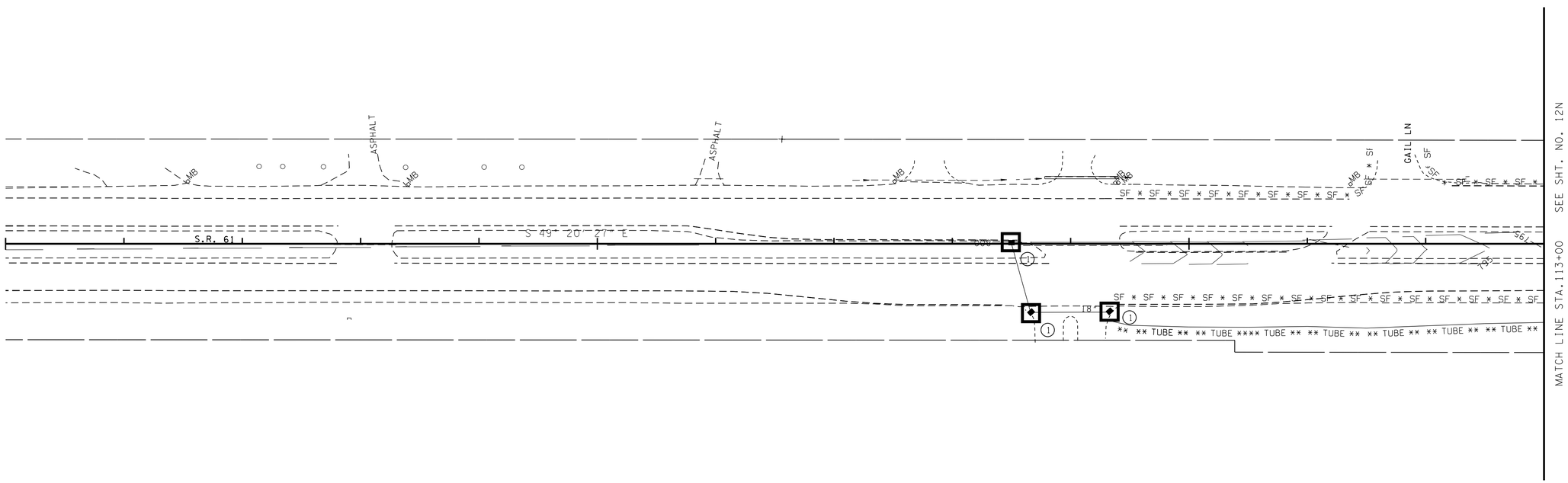
STA. 75+00 TO STA. 87+50

SCALE: 1"= 50'

NOTE: SHOWING PROPOSED CONTOURS

2-JUN-2014 14:21
C:\Projects\Anderson SR61\012L.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	12M
CONST.	2014	NHTSA-HE-61(28)	13M



NOTE: SHOWING PROPOSED CONTOURS

UNOFFICIAL SET

NOT FOR BIDDING

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

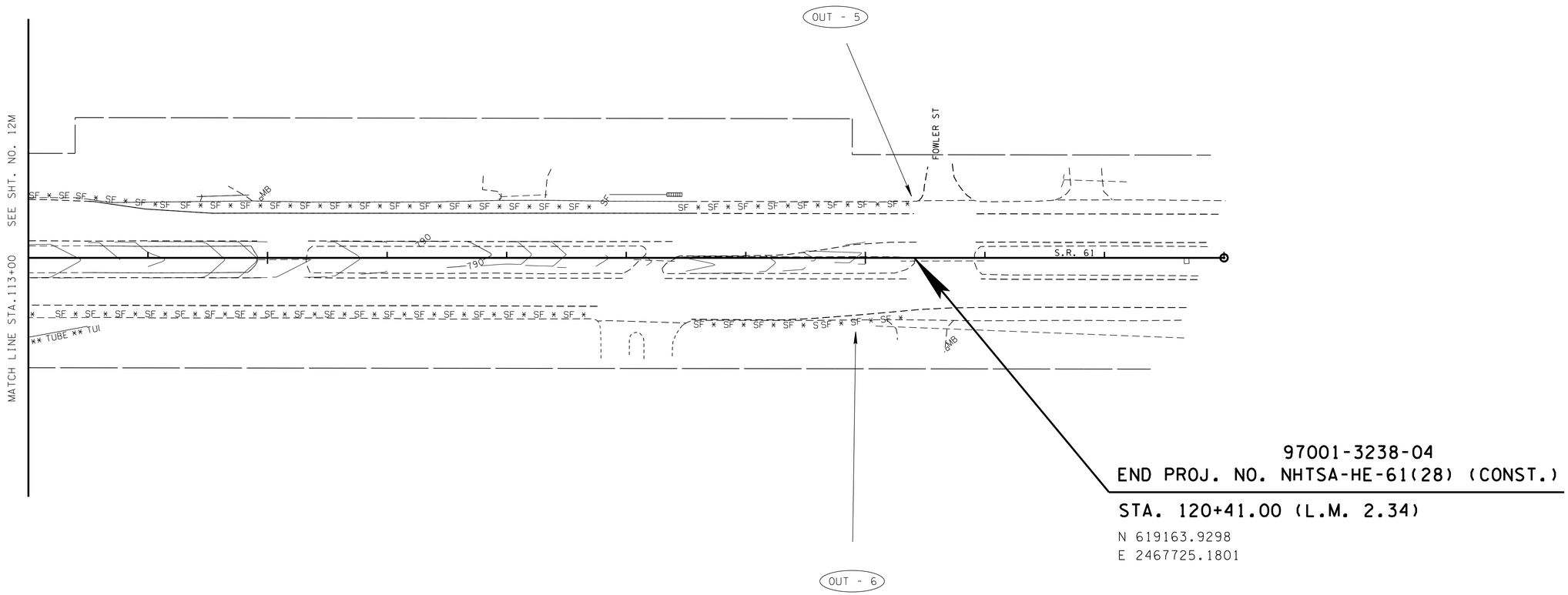
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

E.P.S.C. PLAN PHASE II

STA. 100+00 TO STA. 113+00
SCALE: 1"= 50'

2-JUN-2014 14:22
C:\Projects\Anderson SR61\012m.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	12N
CONST.	2014	NHTSA-HE-61(28)	13N



97001-3238-04
END PROJ. NO. NHTSA-HE-61(28) (CONST.)

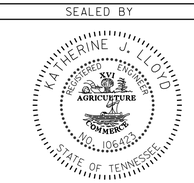
STA. 120+41.00 (L.M. 2.34)

N 619163.9298
E 2467725.1801

NOTE: SHOWING PROPOSED CONTOURS

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

E.P.S.C.
PLAN
PHASE II

STA. 113+00 TO END OF PROJ.
SCALE: 1"= 50'

2-JUN-2014 14:22
C:\Projects\Anderson SR61\012n.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHTSA-HE-61(28)	14

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

A. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC, CAUSED BY BASE, PAVING OR RESURFACING:

1. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 2 INCHES:

a. WARNING SIGNS, UNEVEN LANES (W8-11) AND/OR SHOULDER DROP-OFF WITH PLAQUE (W8-17 AND W8-17P), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

b. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

c. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

d. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.

2. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES. TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN ELEVATION.

a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

(1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

(2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

b. IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 2 INCHES OR LESS BY THE END OF EACH WORKDAY, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH a, PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

c. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE THROUGH TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3.5 INCHES, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE ENGINEER. SEE PARAGRAPH a REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 2 MILES IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

3. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 6 INCHES BUT NOT EXCEEDING 18 INCHES, THE CONTRACTOR, WITH THE ENGINEER'S APPROVAL, MAY UTILIZE ONE OF THE FOLLOWING:

a. THE CONTRACTOR SHALL ACCOMPLISH SEPARATION BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

(1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

(2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 6 INCHES OR LESS BY THE END OF THE WORKDAY THAT THE CONDITION IS CREATED.

b. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a, AND CONSTRUCT A STONE WEDGE WITH A 4:1 SLOPE, OR FLATTER, TO ELIMINATE THE VERTICAL OFFSET IF THE LOWER ELEVATION IS AT OR BELOW SUBGRADE AT THE END OF EACH DAY.

c. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a AND IF THE LOWER ELEVATION IS BASE STONE OR ASPHALT PAVEMENT, PLACEMENT OF SUBSEQUENT LAYERS OF PAVEMENT MUST BEGIN THE NEXT WORK DAY AND PROGRESS CONTINUOUSLY UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED OR REDUCED TO SIX INCHES OR LESS.

d. THE CONTRACTOR SHALL PROVIDE SEPARATION BY PORTABLE BARRIER RAIL.

FOR PRECEDING CONDITIONS a, b, AND c, THE CONTRACTOR SHALL USE THE SHOULDER DROP-OFF WARNING SIGN WITH PLAQUE (W8-17 AND W8-17P). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN THE SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

4. FOR DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 18 INCHES.

SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

IN THIS SITUATION THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

B. IF THE DIFFERENCE IN ELEVATION IS WITHIN 30 FEET OF THE NEAREST TRAFFIC LANE BEING USED BY TRAFFIC CAUSED BY GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES, UNDERCUTTING, ETC.:

1. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 3/4 INCH AND NOT EXCEEDING 2 INCHES.

WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

2. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES:

a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

(1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

(2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

3. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 6 INCHES:

a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

(1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

(2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

b. ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 8 FEET OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

C. IF THE DIFFERENCE IN ELEVATION IS FARTHER THAN 8 FEET FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 30 FEET FROM THE NEAREST TRAFFIC LANE:

SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

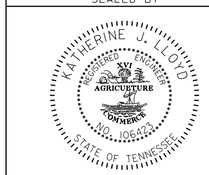
1. WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.

2. WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHTSA-HE-61(28)	14A

TRAFFIC CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	4
	712-01	TRAFFIC CONTROL	LS	1
1	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	800
	712-04.02	FLEXIBLE DRUMS (CHANNELIZATION)	EACH	204
	712-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	75
	712-06	SIGNS (CONSTRUCTION)	S.F.	574
	712-08.03	ARROW BOARD (TYPE C)	EACH	2
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2

1. TO BE USED AT STA. 65+00.00 TO STA. 69+00.00 WITH CATCH BASIN CONSTRUCTION.

SCOPE OF WORK

REMOVE 150' OF CONCRETE BARRIER WALL AND INSTALL CRASH ATTENUATOR. CONSTRUCT 11 LEFT TURN LANES, 1 ACCELERATION LANE INCLUDING PAVING, PAVEMENT MARKINGS AND SIGNS. REMOVE 1 MEDIAN OPENING.

INSTALL RAILROAD CROSSING IMPROVEMENTS INCLUDING PAVEMENT MARKINGS AND SIGNS, RAISED CONCRETE MEDIAN WITH GUARDRAIL.

INSTALL TRAFFIC SIGNAL AT HANNAH DRIVE (SEE SHEET 5B).

INSTALL VARIOUS PAVEMENT MARKINGS AND SIGNS.

SEE PROPOSED LAYOUT SHEETS FOR "GUIDANCE" NOTES FOR MORE DETAILS.

SEQUENCE OF CONSTRUCTION

1. PERFORM ALL MEDIAN WORK UTILIZING STD. DWG. NO. T-WZ-11, "ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS" ON SOUTH BOUND LANE THEN REPEAT THE ONE LANE CLOSURE FOR NORTH BOUND LANE. THE ONE LANE CLOSURE MAY BE PERFORMED IN SECTIONS.
2. PERFORM VARIOUS PAVEMENT MARKINGS AND SIGN WORK INCLUDING MAINLINE AND SIDE ROADS WITH THE USE OF FLAGGERS & FLEXIBLE DRUMS. ALSO INSTALL CONCRETE ISLAND RT. STA. 51+93 WITH THE USE OF FLAGGERS AND FLEXIBLE DRUMS.

TRAFFIC CONTROL SIGN QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	ITEM NO. 712-06 (S.F.)	SIZE	M.U.T.C.D. NO.	REMARKS
712-06	ROAD WORK 1 MILE	9	4	36	36" X 36"	W20-1	
712-06	LEFT LANE CLOSED 1/2 MILE	9	4	36	36" X 36"	W20-5L	
712-06	LEFT LANE CLOSED 1500 FT.	9	4	36	36" X 36"	W20-5L	
712-06	END ROAD WORK	6	18	108	36" X 18"	G20-2	
712-06	LANE SHIFT	9	4	36	36" X 36"	W4-2L	
712-06	TYPE "C" ARROW BOARD	32	2	64	96" X 48"		SINGLE
712-06	ROAD WORK AHEAD	9	14	126	36" X 36"	W20-1	
712-06	FLAGGER	9	4	36	36" X 36"	W20-7	
712-06	SHOULDER DROP OFF	9	8	72	36" X 36"	W8-17	
712-06	SHOULDER DROP OFF PLATE	3	8	24	24" X 18"	W8-17P	
TOTAL				574			

UNOFFICIAL SET
NOT FOR BIDDING

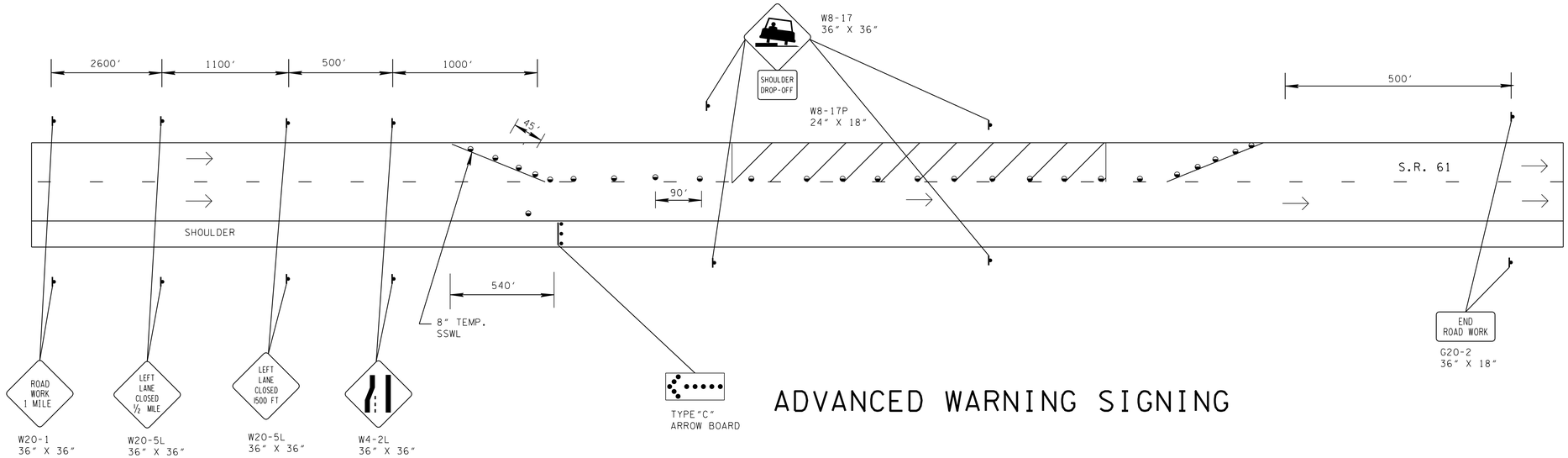
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

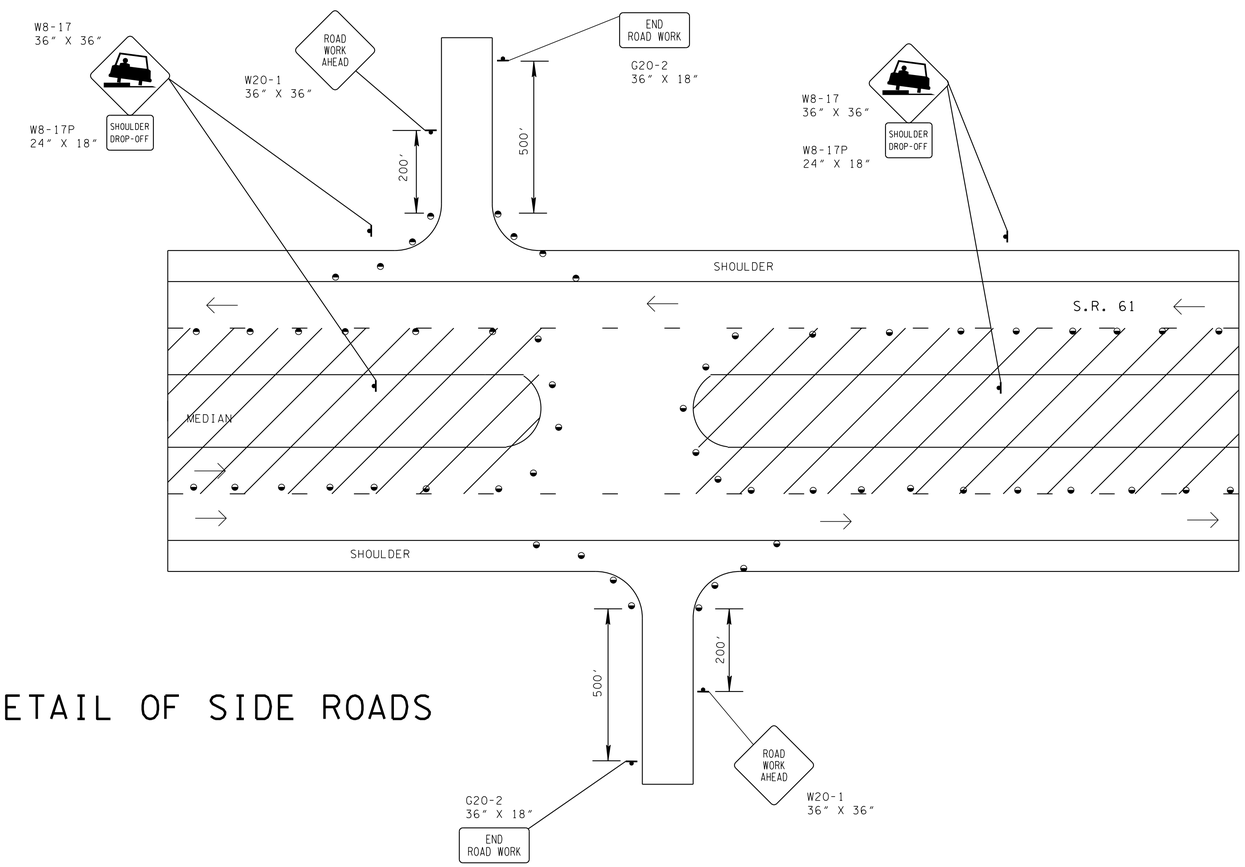
2-JUN-2014 14:23
c:\Projects\Anderson SR61\013a.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2014	NHTSA-HE-61(28)	14B



ADVANCED WARNING SIGNING

FOR DETAILS NOT SHOWN
SEE STD. DWG. T-WZ-11



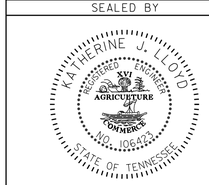
DETAIL OF SIDE ROADS

NOTICE TO CONTRACTOR:
ACCESS TO ALL PROPERTIES TO
BE MAINTAINED AT ALL TIMES.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
	SIGN (CONSTRUCTION)
→	TRAFFIC FLOW
	ARROW BOARD TYPE C
	ARROW BOARD TYPE C (SINGLE ARROW)

UNOFFICIAL SET
NOT FOR BIDDING

SEALED BY



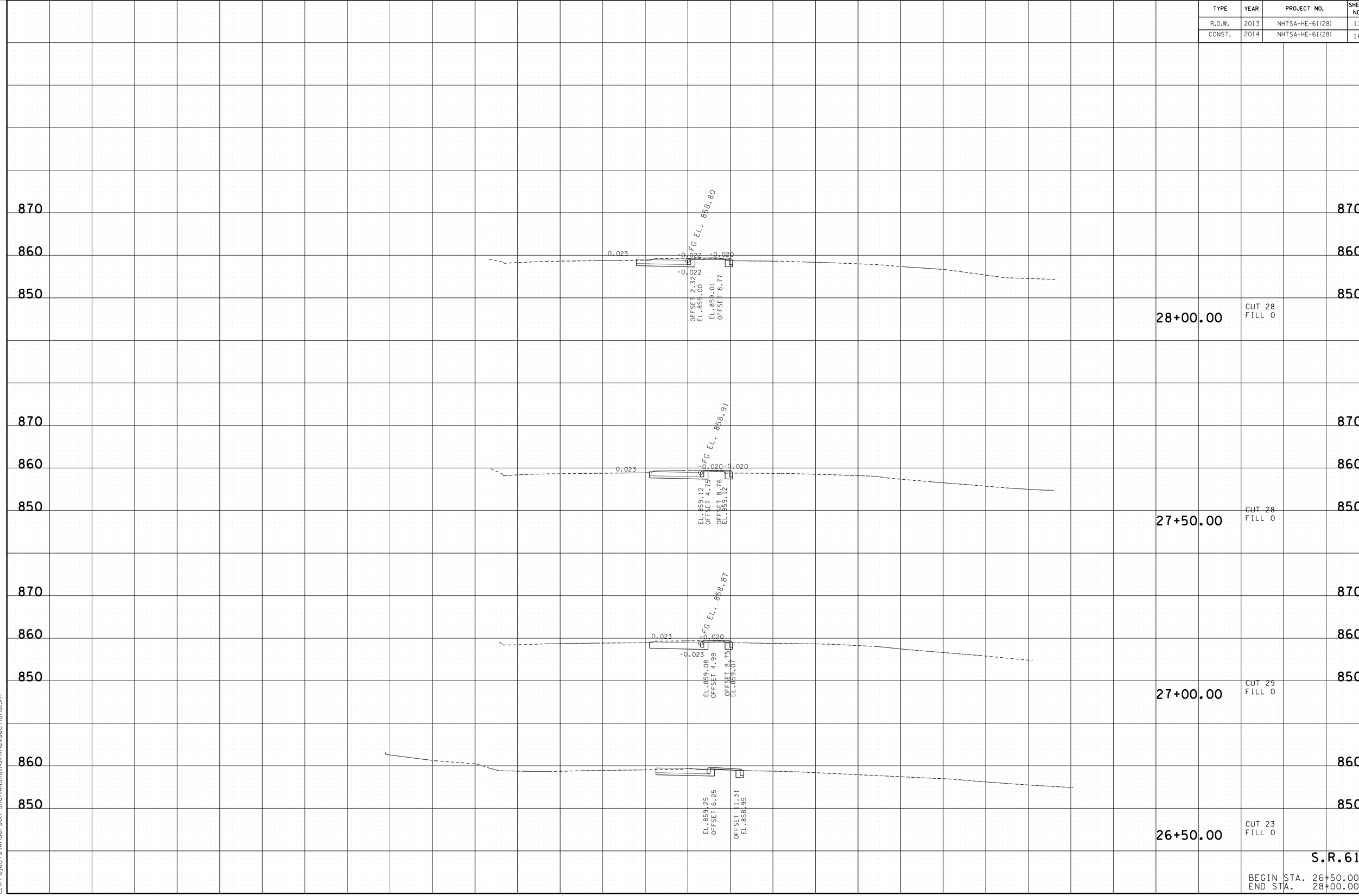
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN

NOT TO SCALE

2-JUN-2014 14:23
C:\Projects\Anderson SR61\013b.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	13
CONST.	2014	NHTSA-HE-61(28)	16

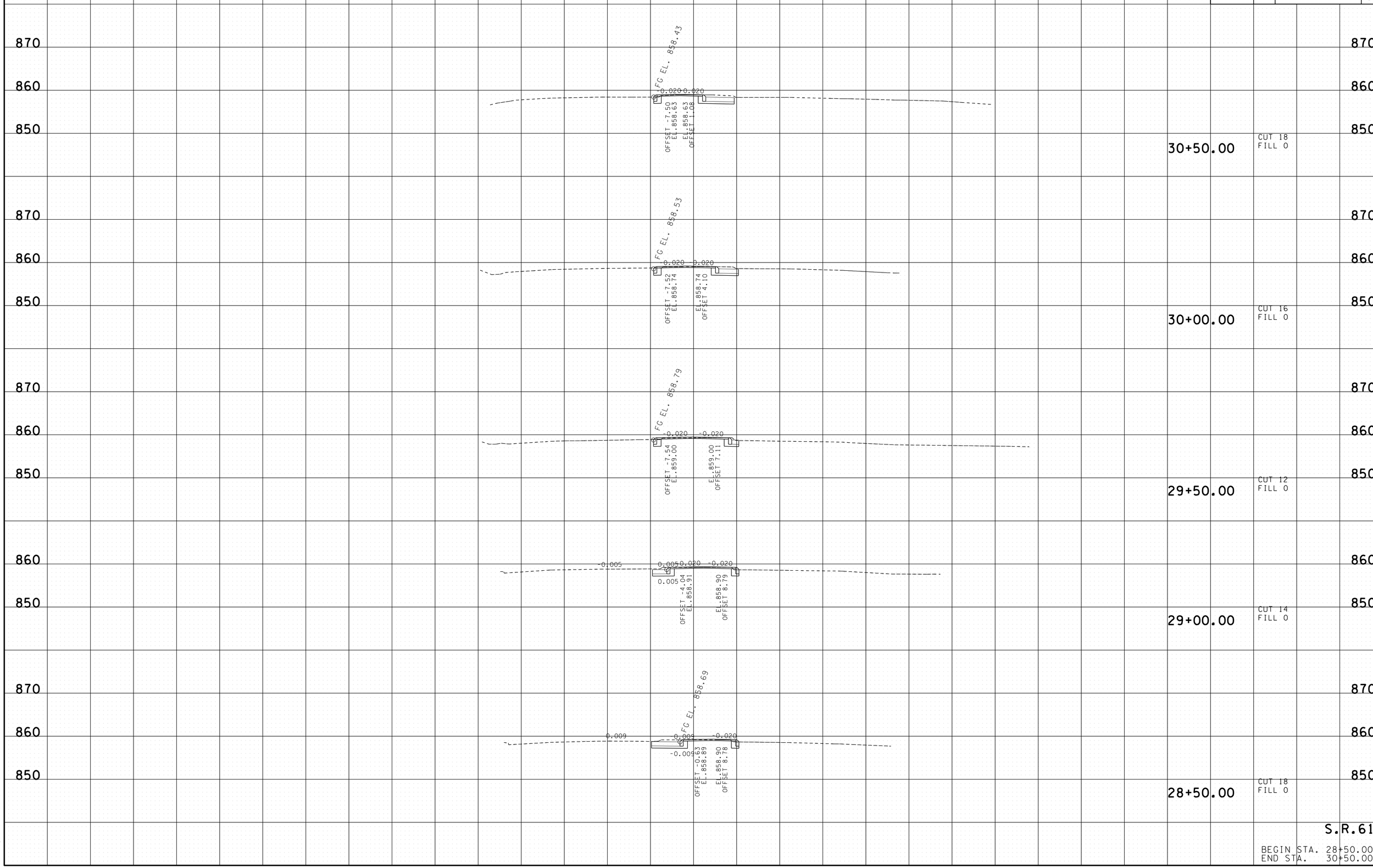


S.R.61

BEGIN STA. 26+50.00
END STA. 28+00.00

12-JUN-2014 14:23
C:\Projects\Anderson SR61\ANSR61mainlinexsections.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	14
CONST.	2014	NHTSA-HE-61(28)	17

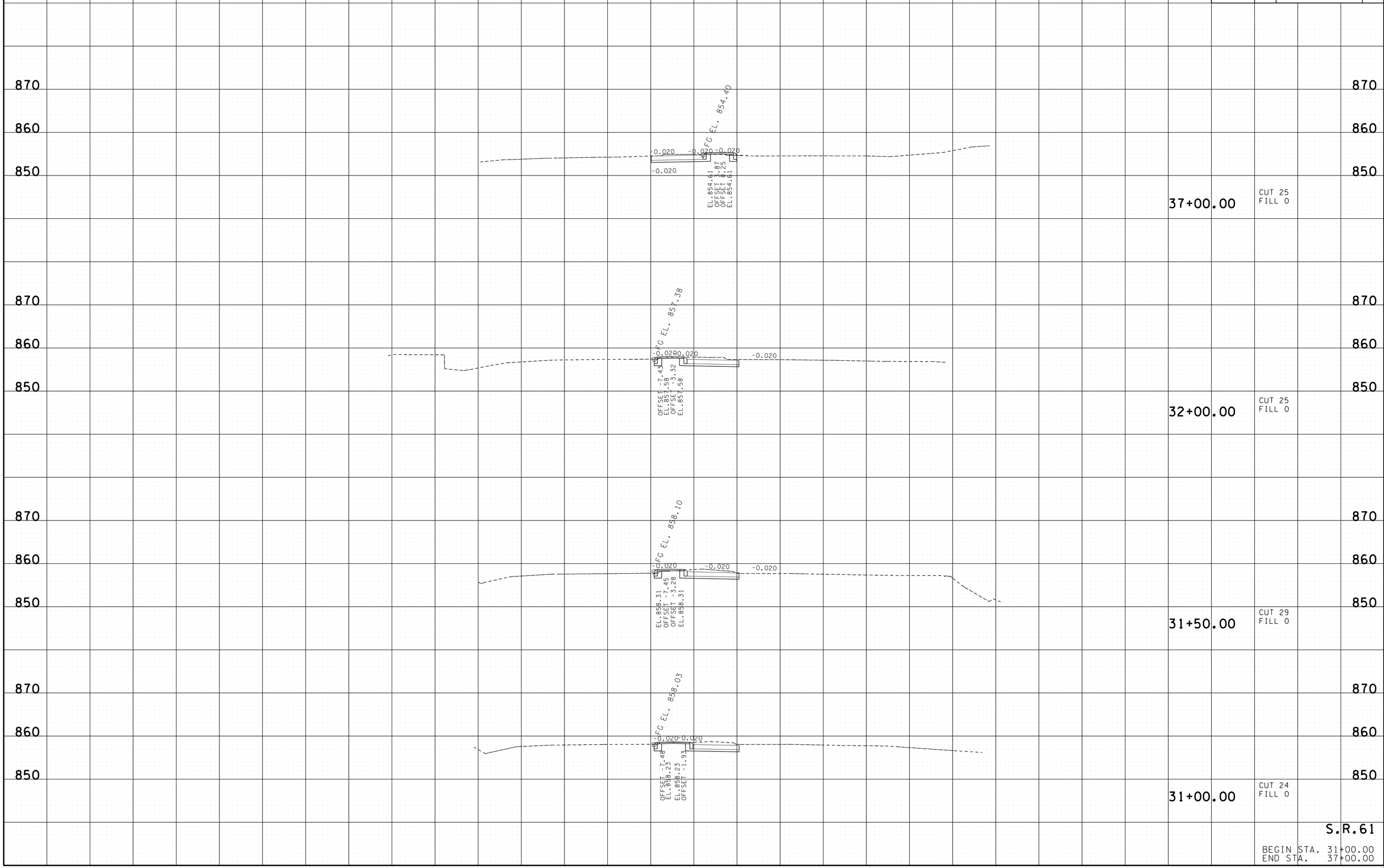


S.R.61

BEGIN STA. 28+50.00
END STA. 30+50.00

12-JUN-2014 14:23
C:\Projects\Anderson SR61\ANSR61mainlinexsections.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	15
CONST.	2014	NHTSA-HE-61(28)	18

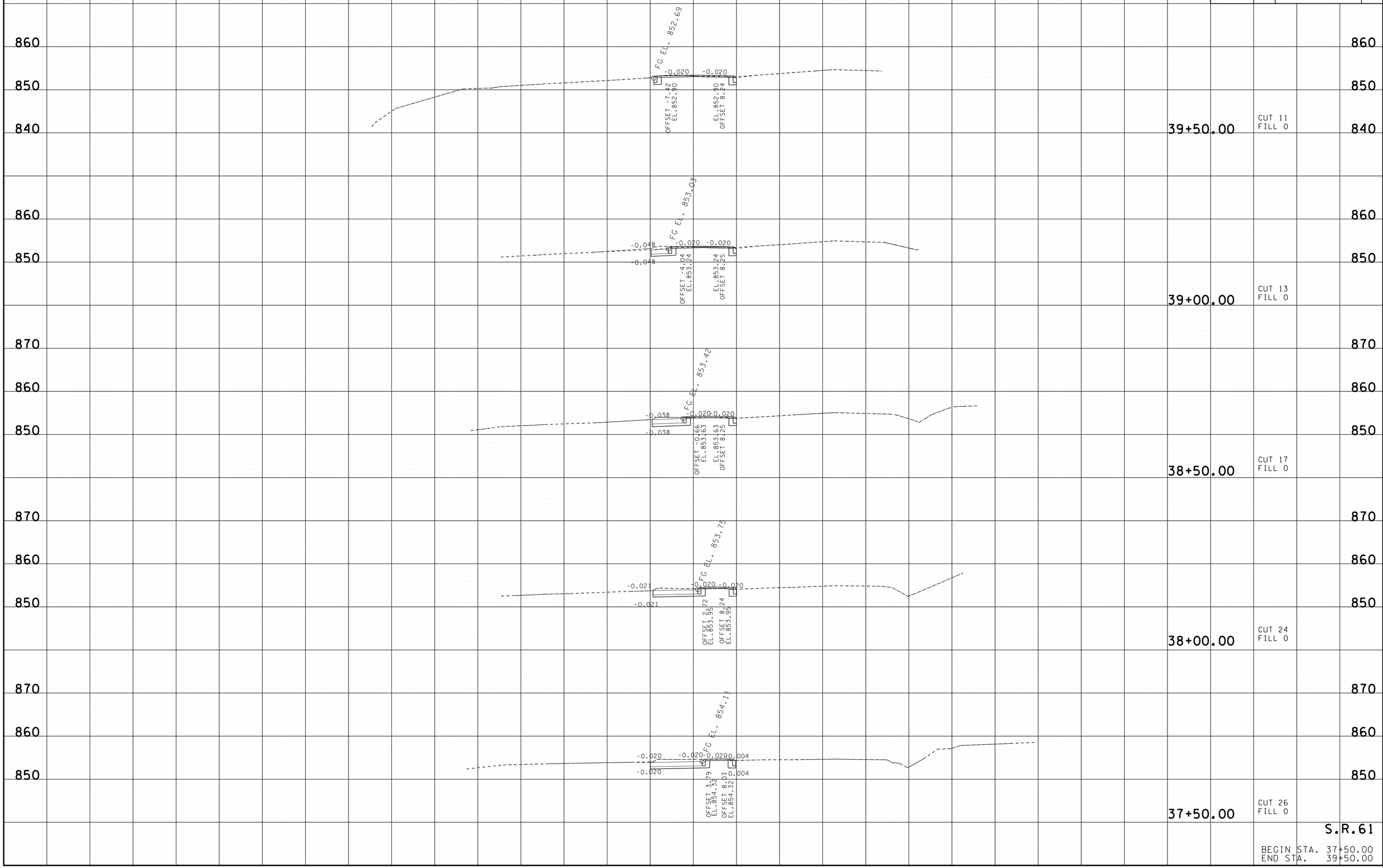


S.R.61

BEGIN STA. 31+00.00
END STA. 37+00.00

12-JUN-2014 14:23
C:\Projects\Anderson SR61\ANSR61mainlinexsections.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	16
CONST.	2014	NHTSA-HE-61(28)	19

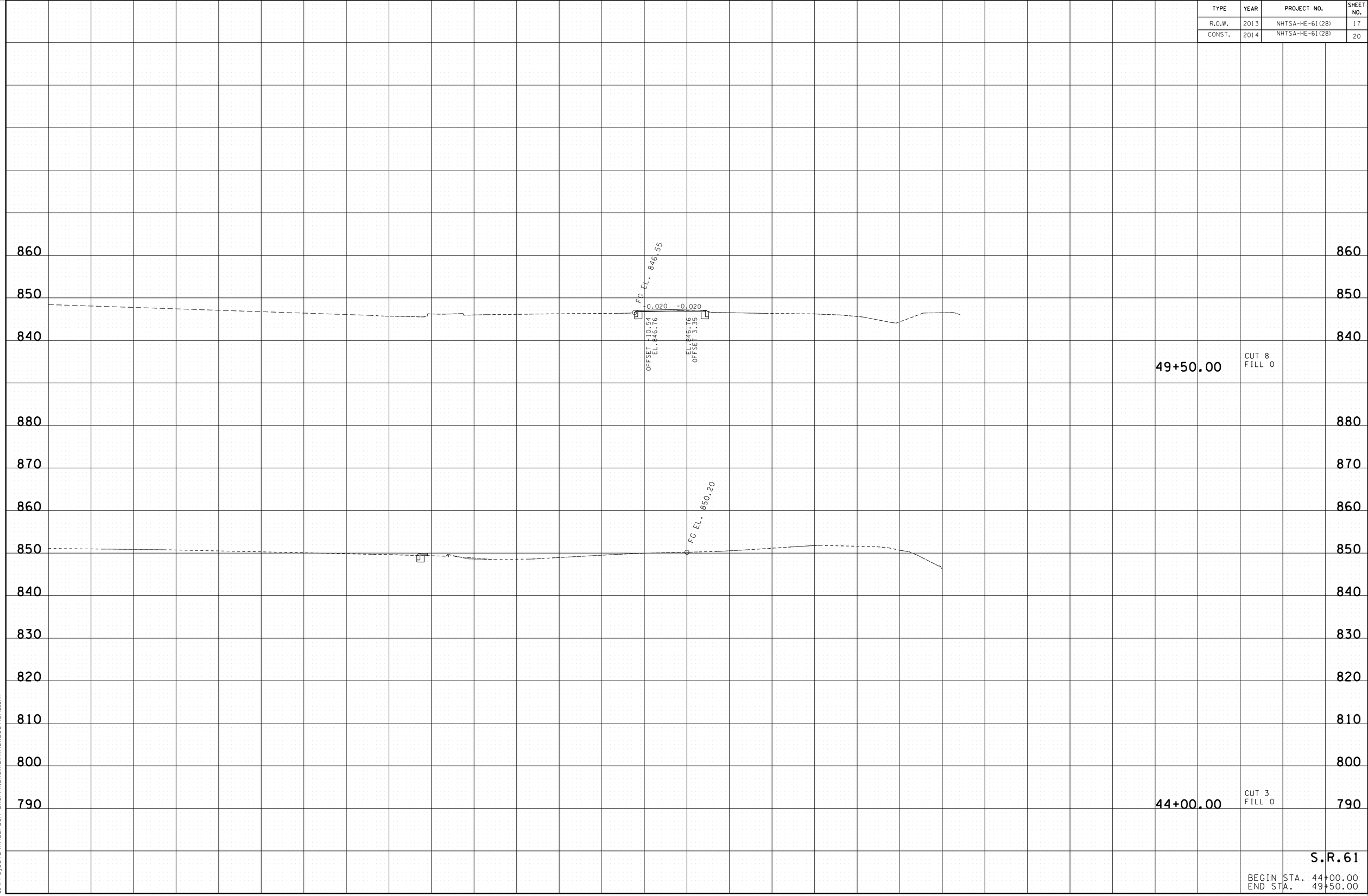


S.R.61

BEGIN STA. 37+50.00
END STA. 39+50.00

12-JUN-2014 14:23
C:\Projects\Anderson SRG\ANSR61maintinexsections.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	17
CONST.	2014	NHTSA-HE-61(28)	20

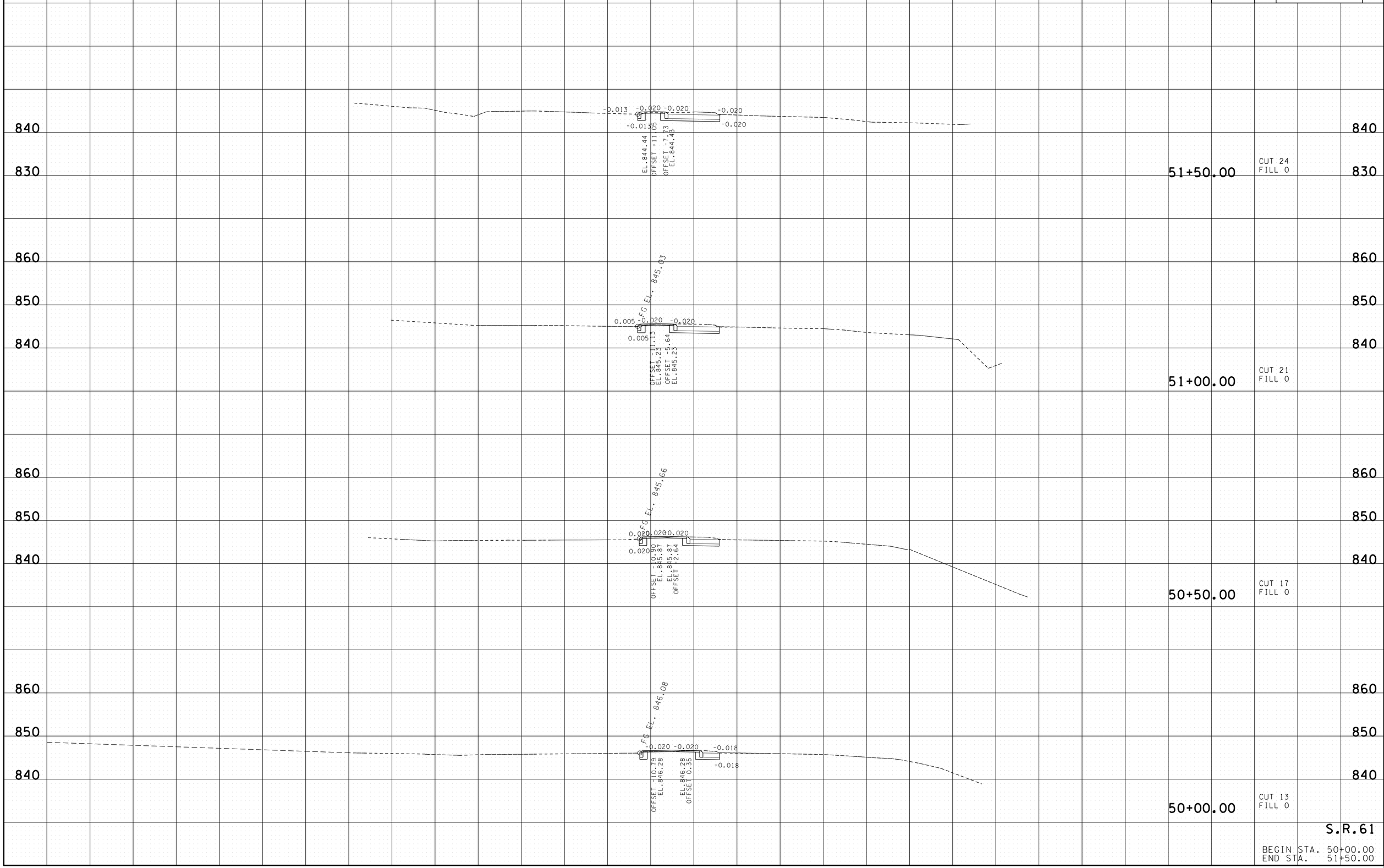


S.R.61

BEGIN STA. 44+00.00
END STA. 49+50.00

12-JUN-2014 14:24
C:\Projects\Anderson SR61\ANSR61mainlinexsections.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	18
CONST.	2014	NHTSA-HE-61(28)	21

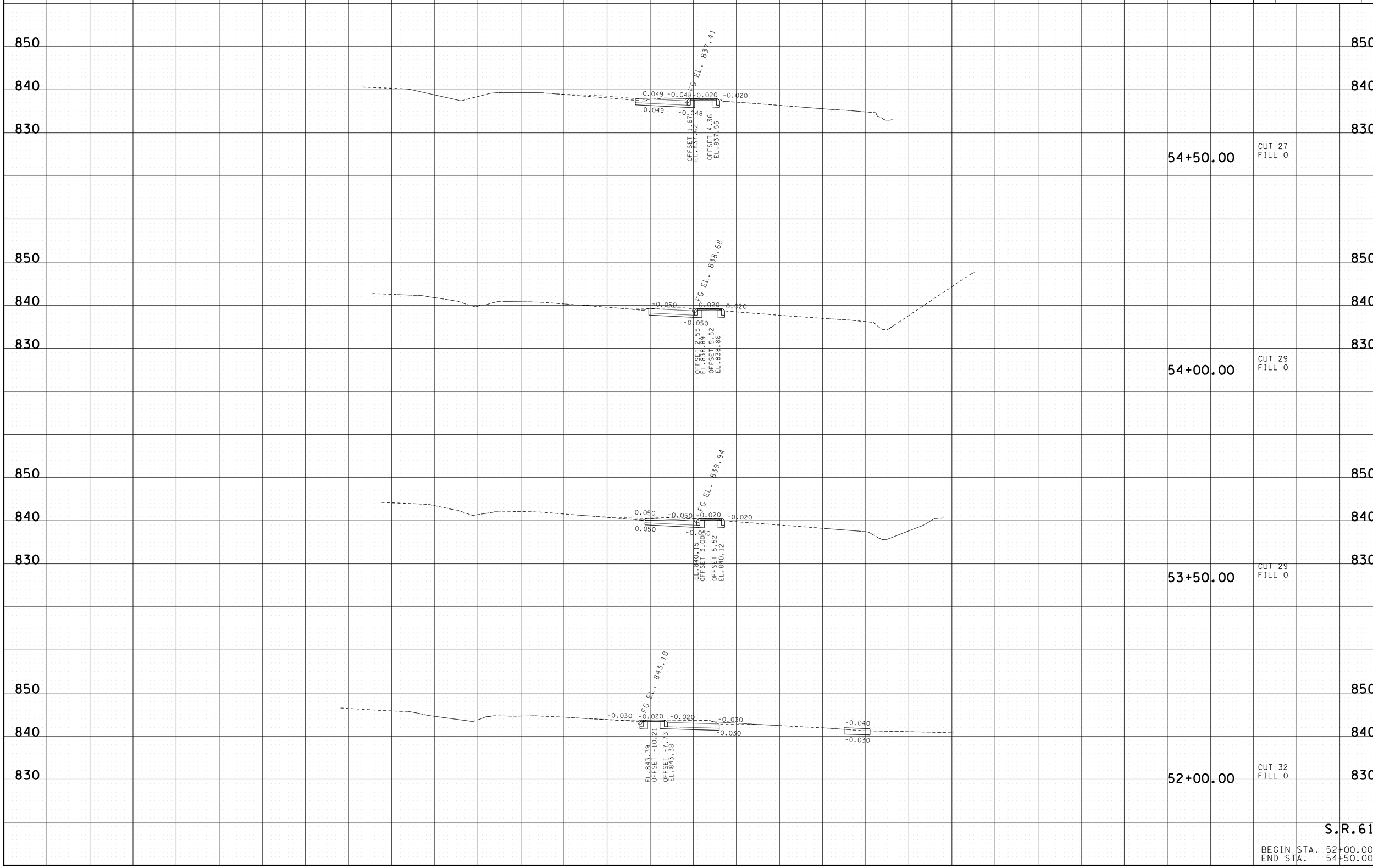


S.R.61

BEGIN STA. 50+00.00
END STA. 51+50.00

12-JUN-2014 14:24
C:\Projects\Anderson SR61\ANSR61mainlinexsections.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	19
CONST.	2014	NHTSA-HE-61(28)	22

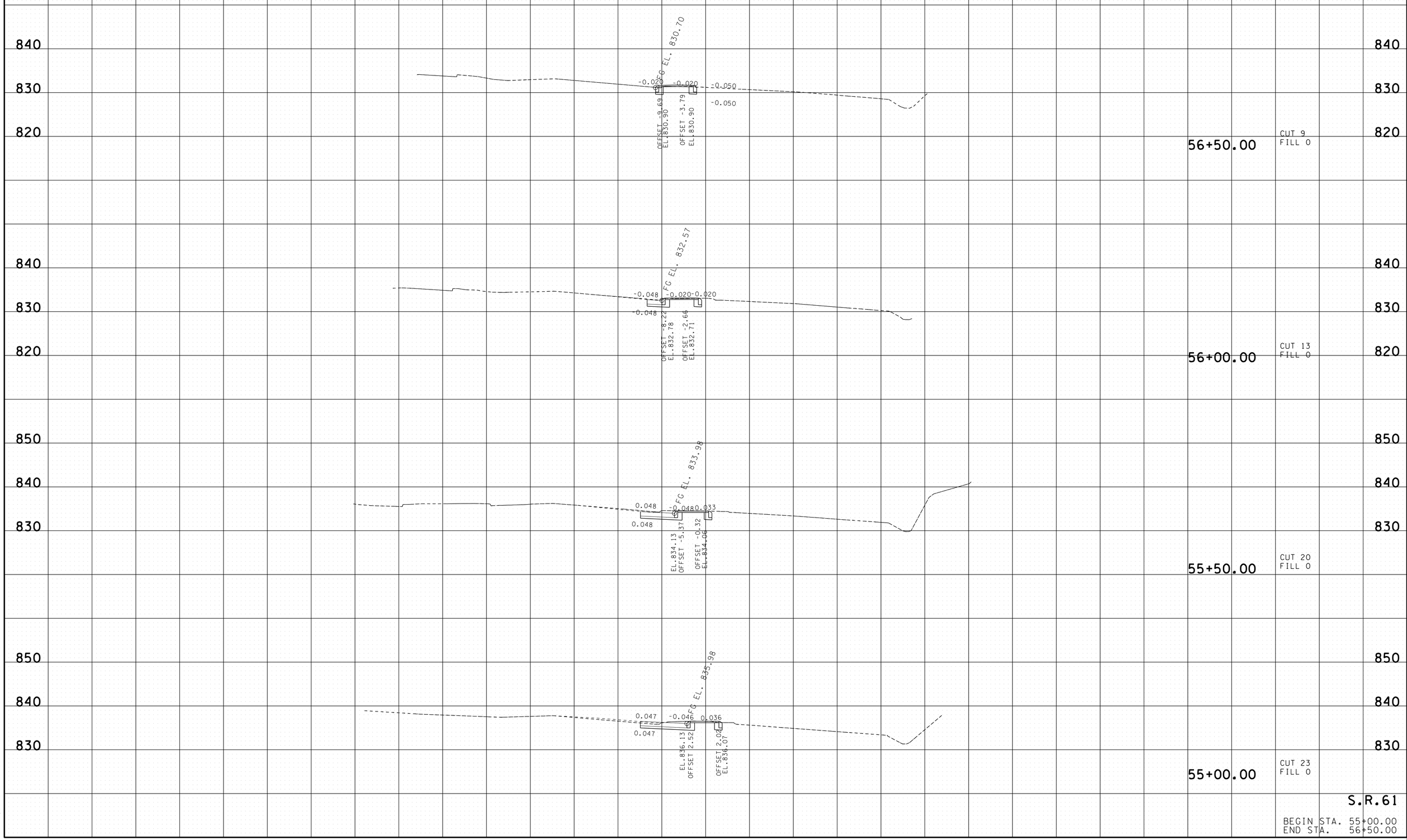


S.R.61

BEGIN STA. 52+00.00
END STA. 54+50.00

12-JUN-2014 14:24
C:\Projects\Anderson SR61\ANSR61mainlinexsections.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	20
CONST.	2014	NHTSA-HE-61(28)	23

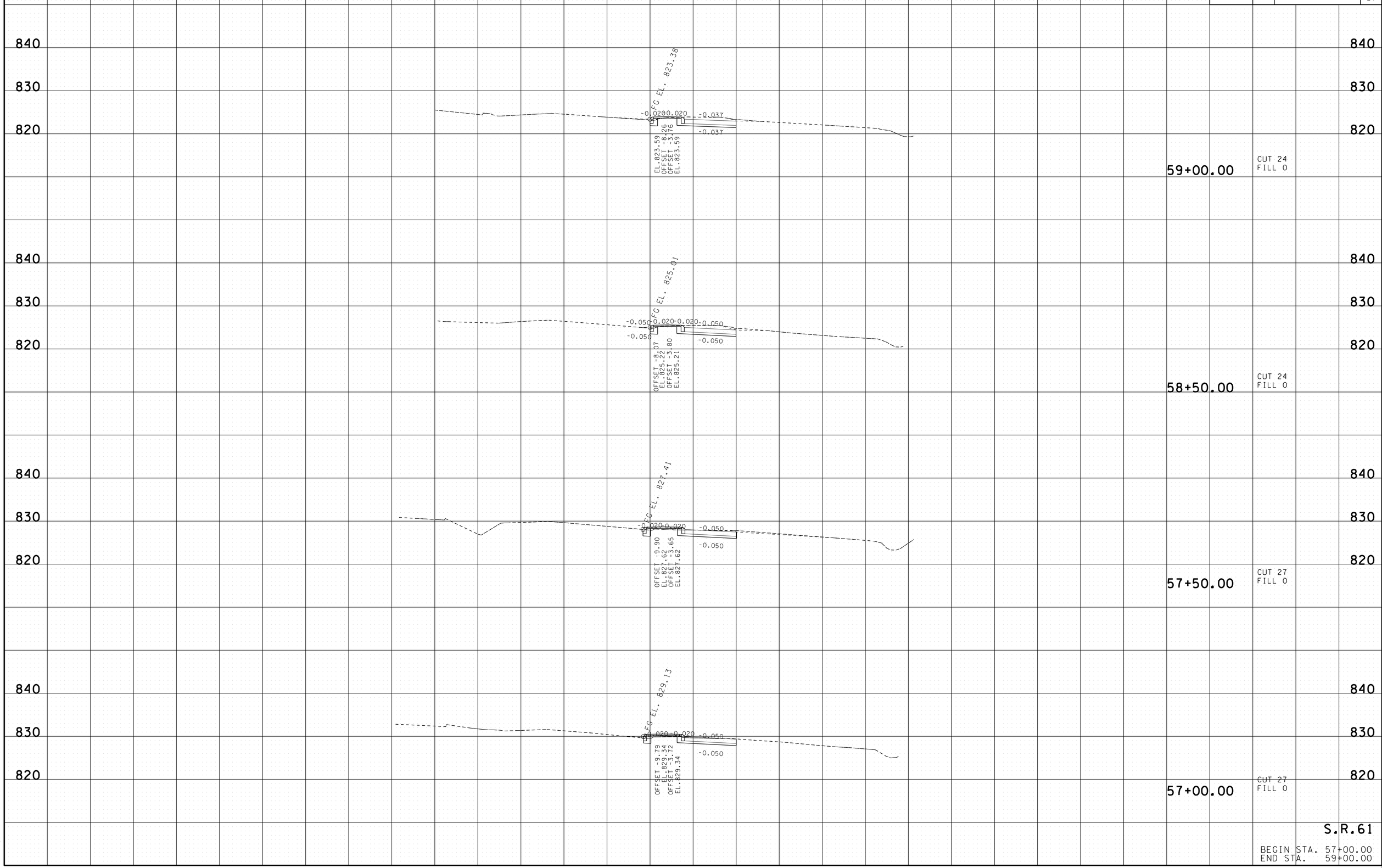


S.R.61

BEGIN STA. 55+00.00
END STA. 56+50.00

12-JUN-2014 14:24
C:\Projects\Anderson SR61\ANSR61mainlinexsections.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	21
CONST.	2014	NHTSA-HE-61(28)	24

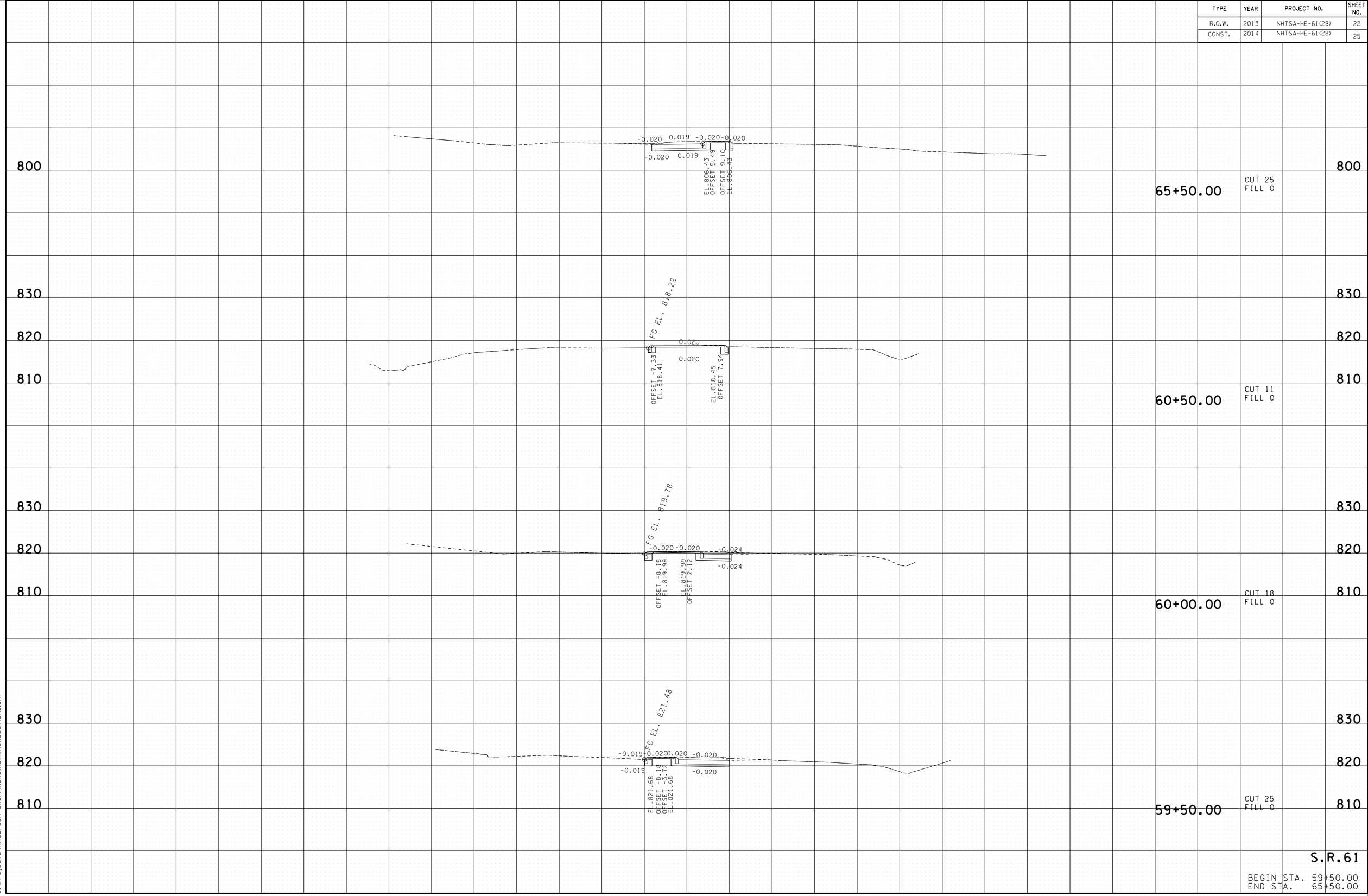


S.R.61

BEGIN STA. 57+00.00
END STA. 59+00.00

12-JUN-2014 14:24
C:\Projects\Anderson SR61\ANSR61mainlinexsections.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	22
CONST.	2014	NHTSA-HE-61(28)	25

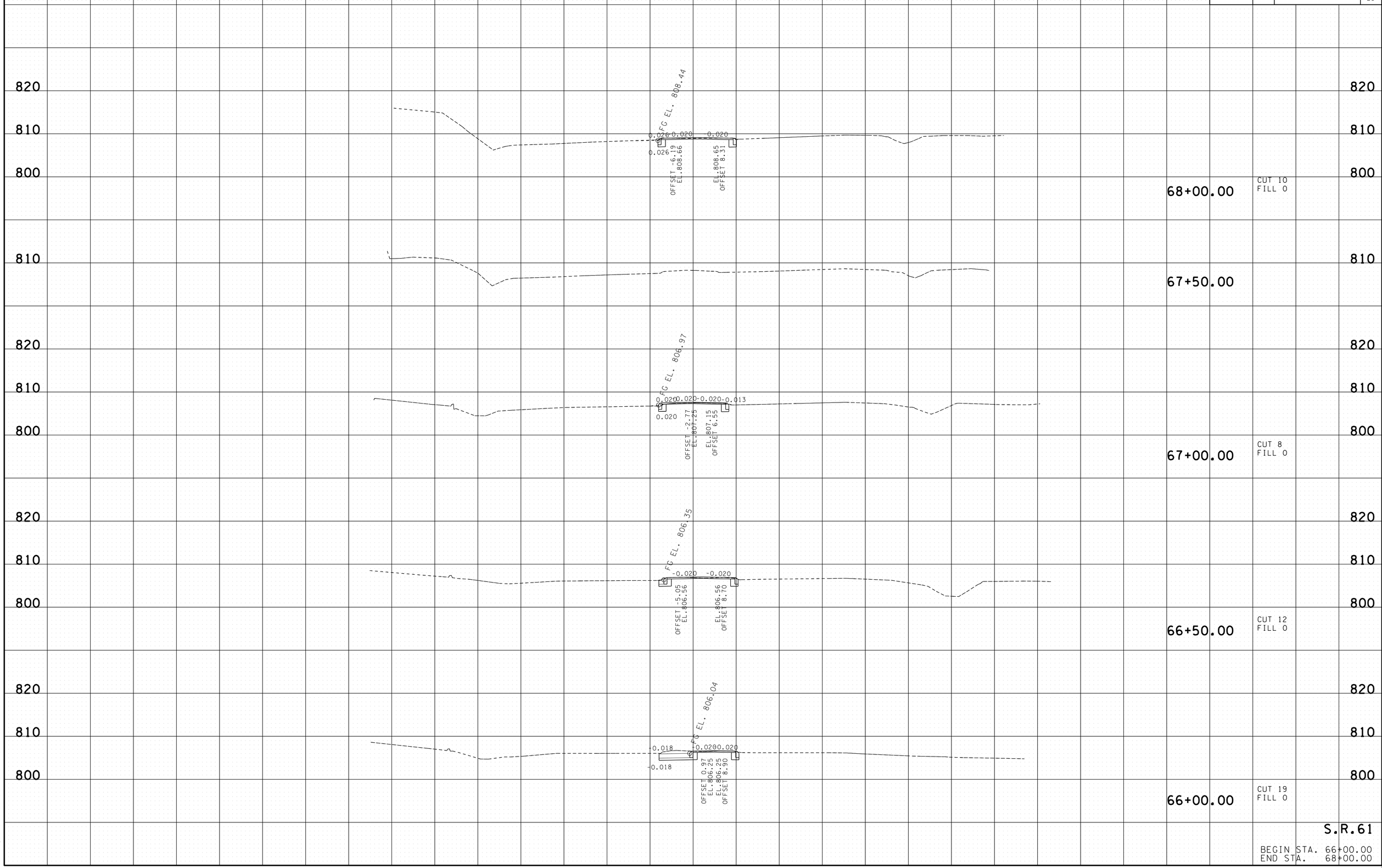


S.R.61

BEGIN STA. 59+50.00
END STA. 65+50.00

12-JUN-2014 14:24
C:\Projects\Anderson SR61\ANSR61mainlinexsections.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	23
CONST.	2014	NHTSA-HE-61(28)	26

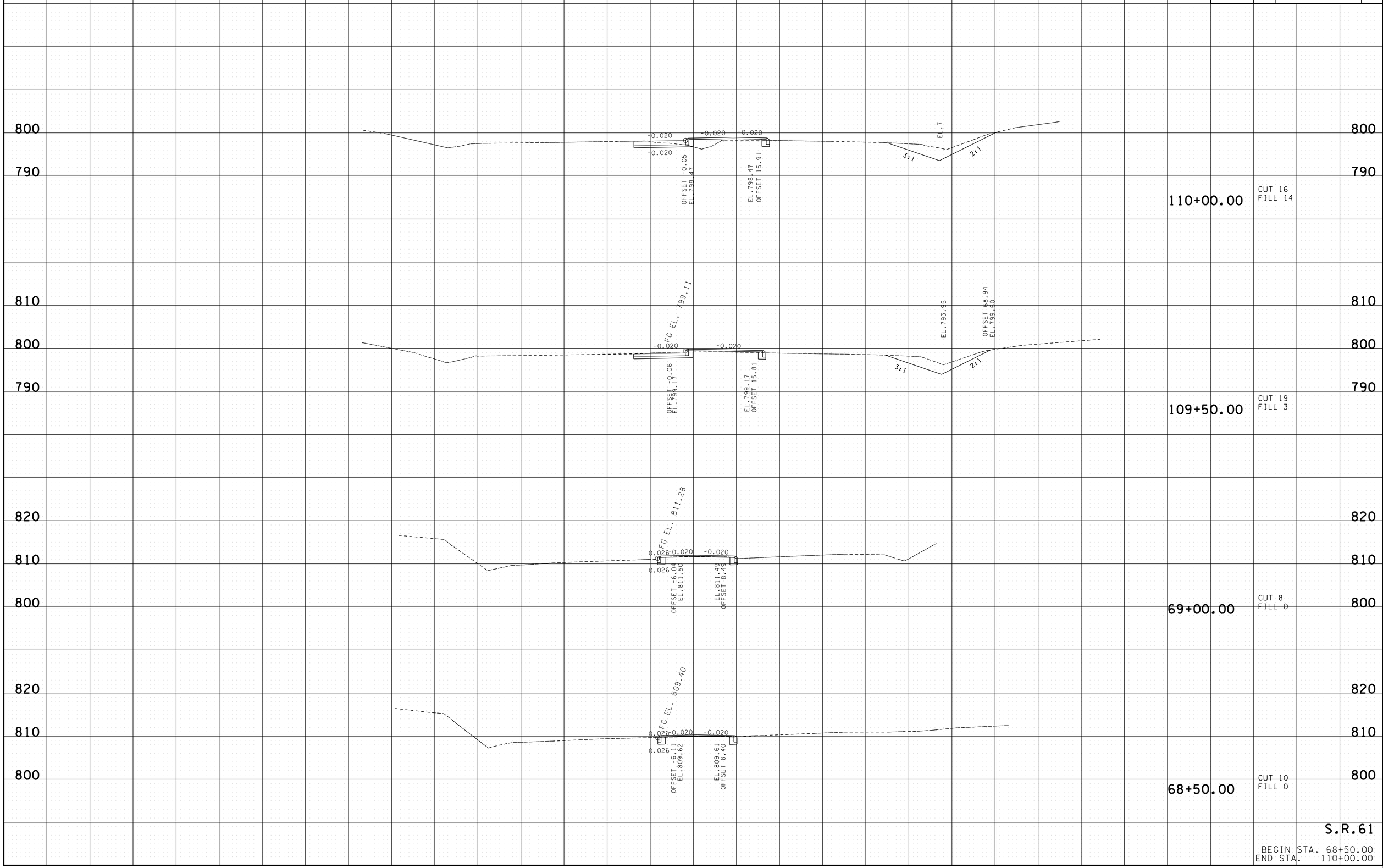


S.R.61

BEGIN STA. 66+00.00
END STA. 68+00.00

12-JUN-2014 14:24
C:\Projects\Anderson SR61\ANSR61maintinexsections.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	24
CONST.	2014	NHTSA-HE-61(28)	27

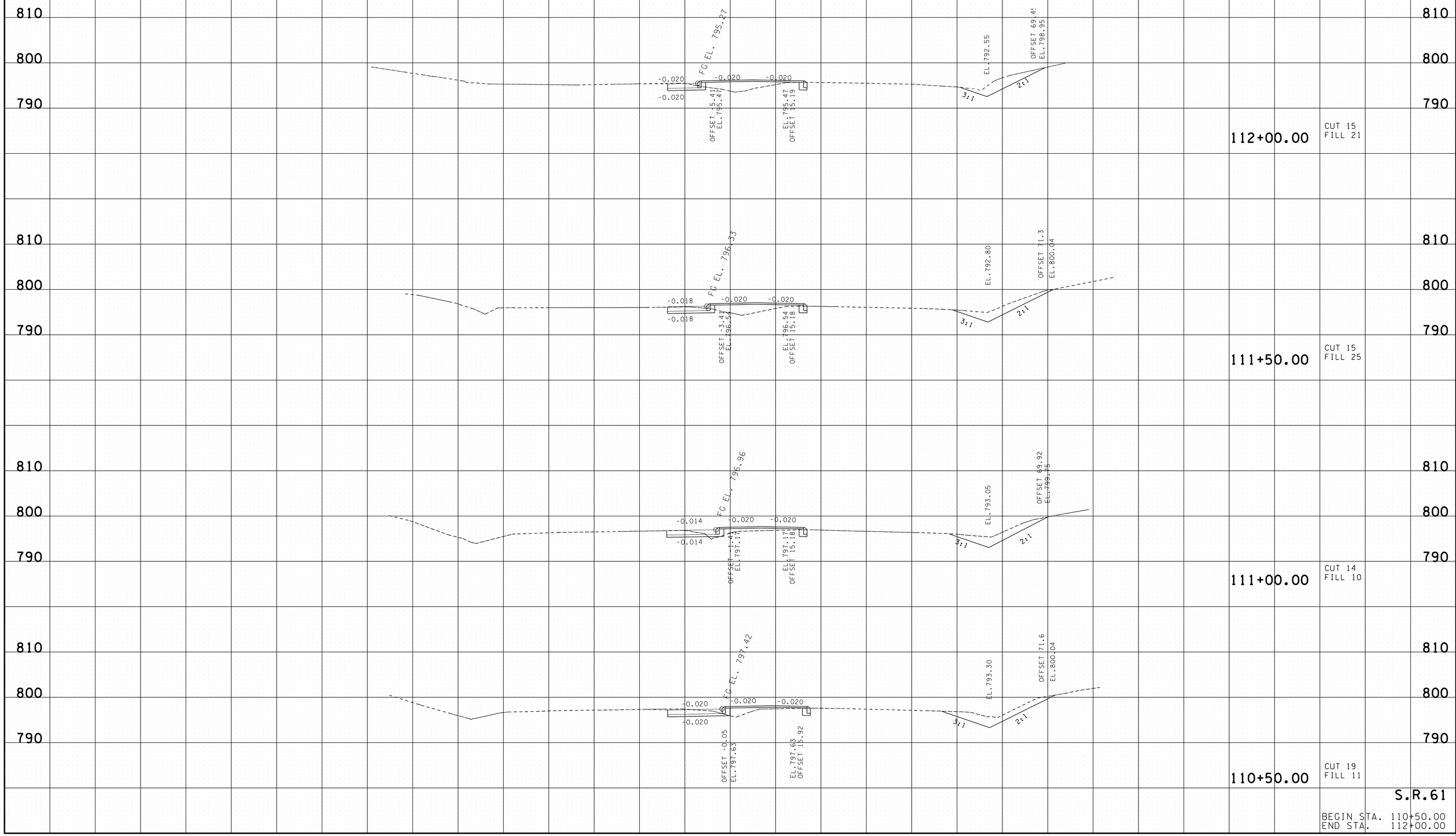


S.R.61

BEGIN STA. 68+50.00
END STA. 110+00.00

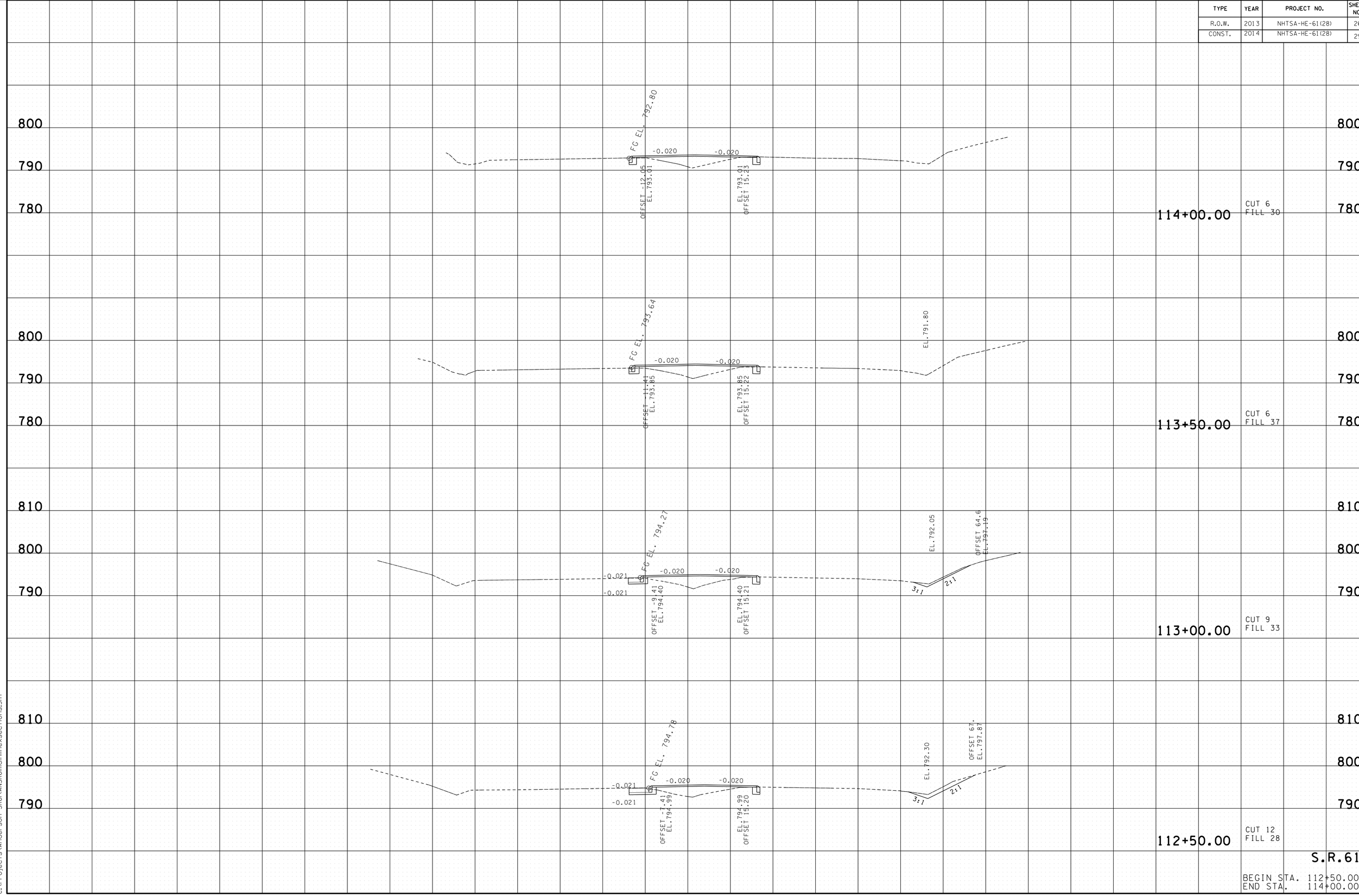
12-JUN-2014 14:24
C:\Projects\Anderson SR61\ANSR61mainlinexsections.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	25
CONST.	2014	NHTSA-HE-61(28)	28



12-JUN-2014 14:24
C:\Projects\Anderson SR61\ANSR61minilinexsections.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	26
CONST.	2014	NHTSA-HE-61(28)	29

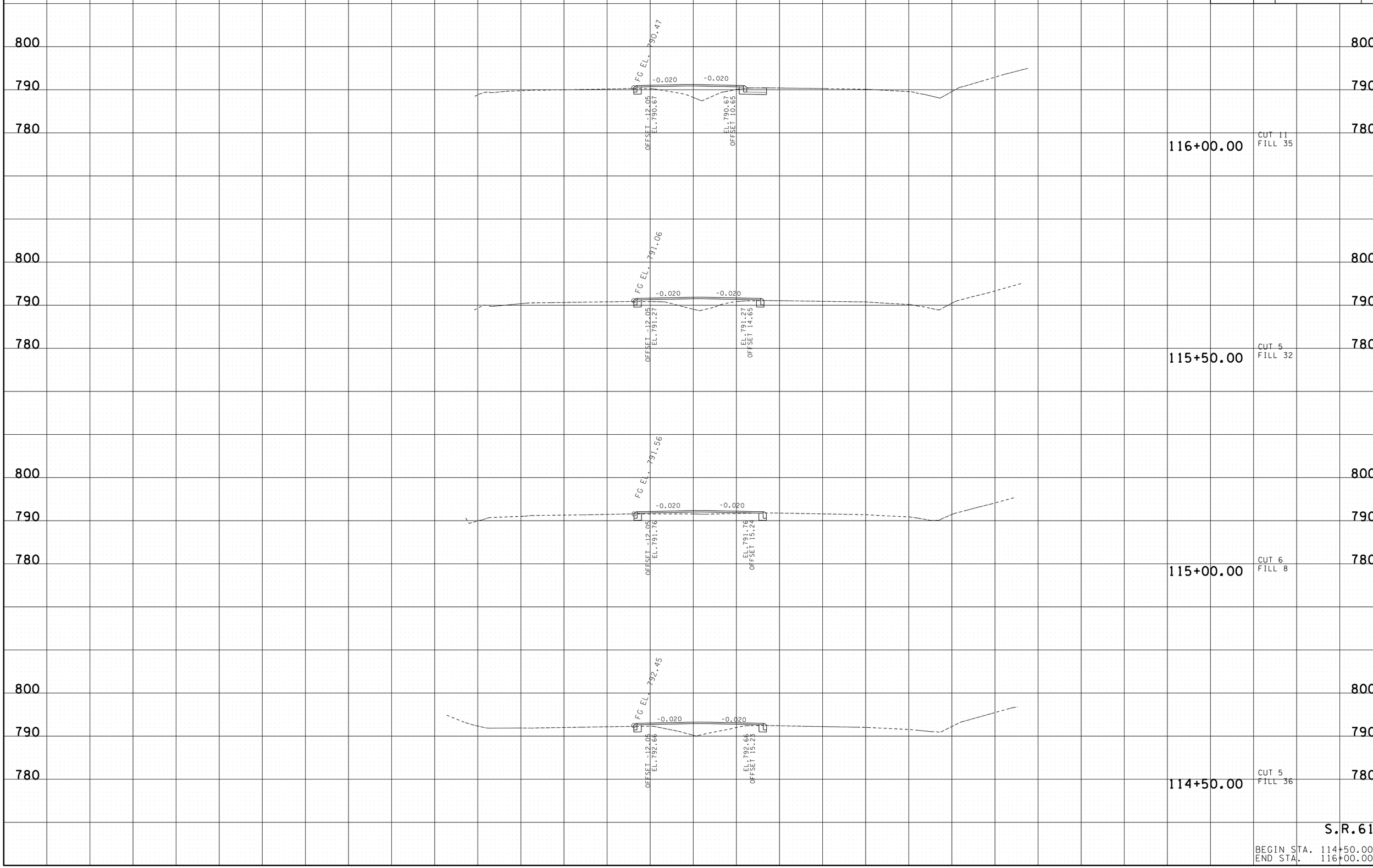


S.R.61

BEGIN STA. 112+50.00
END STA. 114+00.00

12-JUN-2014 14:24
C:\Projects\Anderson SR61\ANSR61mainlinexsections.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	27
CONST.	2014	NHTSA-HE-61(28)	30

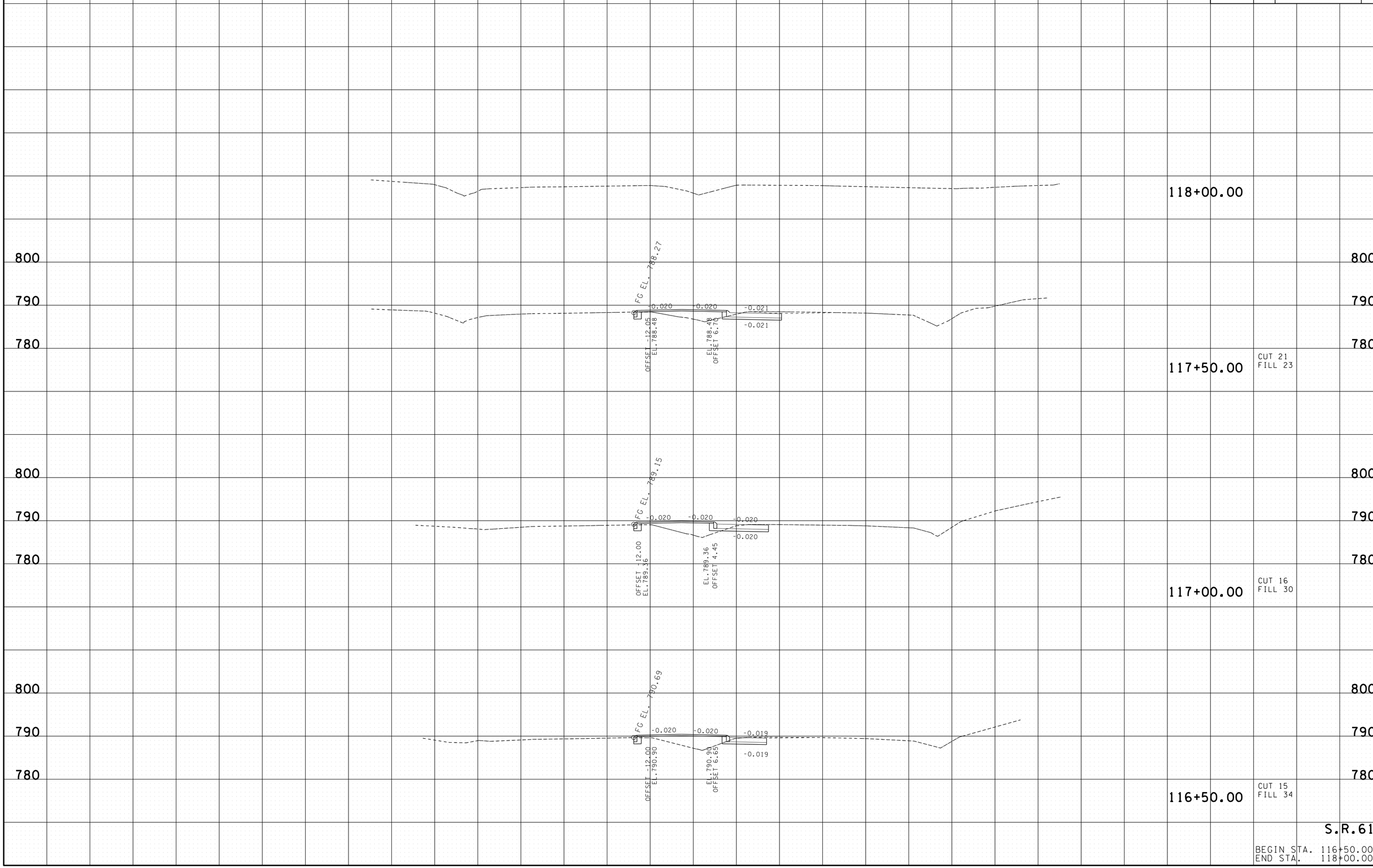


S.R.61

BEGIN STA. 114+50.00
END STA. 116+00.00

12-JUN-2014 14:24
C:\Projects\Anderson SR61\ANSR61mainlinexsections.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	28
CONST.	2014	NHTSA-HE-61(28)	31

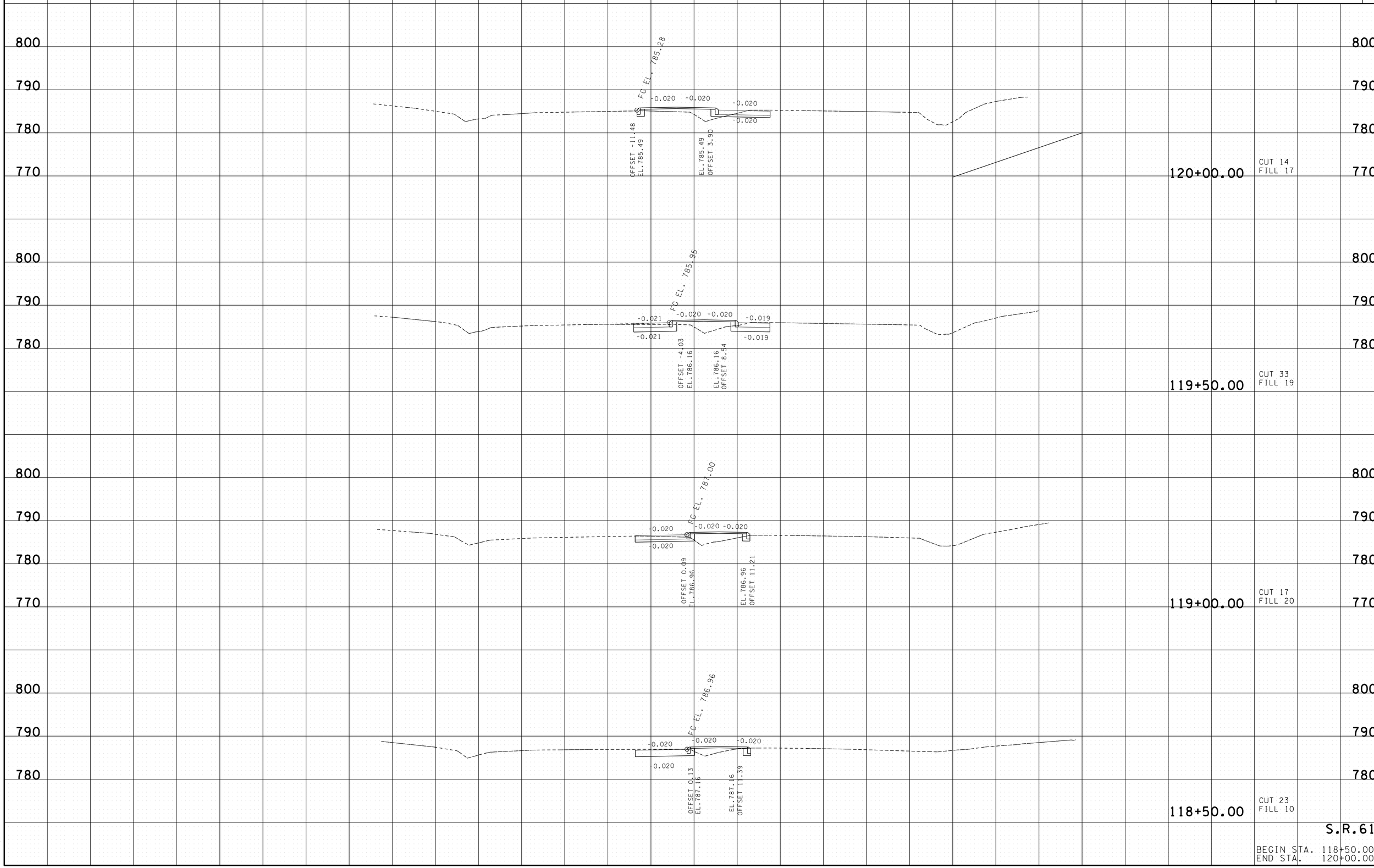


S.R.61

BEGIN STA. 116+50.00
END STA. 118+00.00

12-JUN-2014 14:24
C:\Projects\Anderson SR61\ANSR61mainlinexsections.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2013	NHTSA-HE-61(28)	29
CONST.	2014	NHTSA-HE-61(28)	32



S.R.61

BEGIN STA. 118+50.00
END STA. 120+00.00

12-JUN-2014 14:24
C:\Projects\Anderson SR61\ANSR61mainlinexsections.SHT