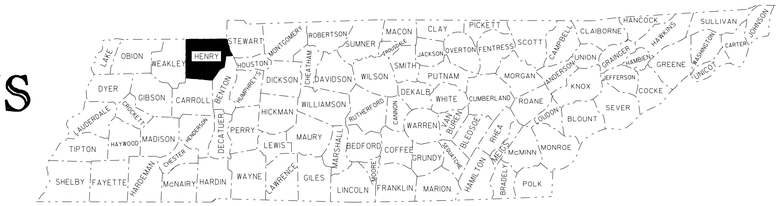
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

GEOTECHNICAL OPERATIONS SECTION



GEOLOGICAL SYMBOLS

STATE ROUTE 54 (US 641)
HENRY COUNTY, TENNESSEE

- Rockline Soundings
- Disturbed Sample Boring
- Undisturbed Sample Boring
- Undisturbed Sample Boring & Rock Core
- Rock Core
- Slope Inclinometer Installation typical applications:
- OW — Observation Well
- Approximate Footing Elevation
- (Date) — Water Elevation
- VS (psf) — Field Vane Shear Strength
- N — Penetration Resistance
- Qu (psf) — Unconfined Compressive Strength
- UU (psf) — Unconsolidated Undrained Triaxial Strength
- w% — Moisture Content
- RQD — Rock Quality Designation
- REC — Core Recovery
- ϕ — Angle of Internal Friction (Total Stress)
- $\bar{\phi}$ — Angle of Internal Friction (Effective Stress)
- c (psf) — Cohesion (Total Stress)
- $\bar{c}$ (psf) — Cohesion (Effective Stress)
- γ (pcf) — Total Unit Weight
- R — Refusal
- NR — Refusal Not Encountered
- (HA) — Hand Auger
- (2) — Sample Number

SOIL LEGEND AND AASHTO CLASSIFICATION

GENERAL CLASS.	GRANULAR MATERIALS (≤35% PASSING #200)							SILT-CLAY MATERIALS (> 35% PASSING #200)				ORGANIC MATERIALS		
GROUP CLASS.	A-1		A-3	A-2				A-4	A-5	A-6	A-7	A-1,A-2 A-3	A-4,A-5 A-6,A-7	
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5 A-7-6			
SYMBOL														
% PASSING #10	50 MX											GRANULAR SOILS	SILT-CLAY SOILS	MUCK, PEAT
#40	30 MX	50 MX	51 MN											
#200	15 MX	25 MX	10 MX	35 MX	35 MX	35 MX	35 MX	36 MN	36 MN	36 MN	36 MN			
(PASSING #40) LL	6 MX		N.P.	40 MX	41 MN	40 MX	41 MN	40 MX	41 MN	40 MX	41 MN	SOILS WITH LITTLE OR MODERATE AMOUNTS OF ORGANIC MATTER		HIGHLY ORGANIC SOILS
PI				10 MX	10 MX	11 MN	11 MN	10 MX	10 MX	11 MN	11 MN			
GROUP INDEX	0		0	0		4 MX		8 MX	12 MX	16 MX	NO MX			
USUAL TYPES OF MAJOR MATERIALS	STONE FRAGS. GRAVEL & SAND		FINE SAND	SILTY OR CLAYEY GRAVEL AND SAND				SILTY SOILS		CLAYEY SOILS				

* PI OF A-7-5 <(LL-30); PI OF A-7-6 >(LL-30)

ADDITIONAL ROCK SYMBOLS

SYMBOL	SHALE	LIMESTONE	DOLOMITE	WEATHERED SHALE	EXISTING ROADWAY FILL	SELECT GRANULAR MATERIAL	WEATHERED LIMESTONE	GRADED SOLID ROCK

NOTICE REGARDING AVAILABILITY OF GEOTECHNICAL INFORMATION

ON MOST TDOT PROJECTS A GEOTECHNICAL INVESTIGATION AND REPORT IS ACCOMPLISHED AS PART OF THE PROJECT DESIGN PROCESS. THE WORK MAY VARY FROM ONE SAMPLE TAKEN FROM THE GROUND SURFACE TO CONDUCTING HUNDREDS OF SOIL BORINGS AND ROCK CORES DEPENDING ON THE SIZE AND COMPLEXITY OF THE PROJECT. THIS WORK MAY HAVE BEEN ACCOMPLISHED BY TDOT FORCES OR BY A GEOTECHNICAL CONSULTANT. THIS WORK IS USED BY THE ROADWAY AND STRUCTURAL DESIGNERS IN PREPARATION OF PLANS FOR A PROJECT.

BOTH FACTUAL AND INTERPRETIVE GEOTECHNICAL INFORMATION MAY BE PROVIDED BY MEANS OF SOILS PLAN AND PROFILE SHEETS ALONG WITH SPECIAL CROSS-SECTIONS DEPICTING GEOTECHNICAL INFORMATION AND RECOMMENDATIONS USED BY THE ROADWAY DESIGNER TO PRODUCE FINAL CONSTRUCTION CROSS-SECTIONS AND TO ESTIMATE GRADING QUANTITIES. IN ADDITION, GEOTECHNICAL INFORMATION, BOTH FACTUAL AND INTERPRETIVE IS SHOWN ON FOUNDATION DATA SHEETS FOR BRIDGES TO BE CONSTRUCTED AND ON RETAINING WALL CONCEPTUAL SHEETS FOR RETAINING WALLS TO BE CONSTRUCTED ON A PROJECT.

THE ACTUAL GEOTECHNICAL REPORT AND DETAILED BORING RECORDS AND LABORATORY TEST DATA ARE TYPICALLY NOT INCLUDED AS DOCUMENTS IN THE CONTRACT PROPOSAL OR RELATED CONTRACT DOCUMENTS. HOWEVER, THIS INFORMATION (FOR PROJECTS FOR WHICH IT WAS OBTAINED) IS AVAILABLE BY REQUEST TO THE CONTRACTOR FOR HIS REVIEW TO BE USED IN CONJUNCTION WITH THE GEOTECHNICAL INFORMATION PROVIDED IN THE CONTRACT PLANS AND CROSS-SECTIONS FOR PREPARATION OF THE CONTRACTOR'S BID AND FOR AIDING THE CONTRACTOR IN PLANNING AND EXECUTING THE WORK. ON SOME PROJECTS, SOIL SAMPLES AND ROCK CORES ARE AVAILABLE FOR EXAMINATION.

EXAMINATION OF THE GEOTECHNICAL INFORMATION IN THE PLANS, DETERMINATION OF AVAILABILITY OF GEOTECHNICAL REPORTS AND RELATED DOCUMENTS AND EXAMINATION OF SUCH AVAILABLE MATERIAL SHALL BE CONSIDERED AS PART OF THE REQUIREMENTS SET FORTH IN ITEM 102.04-EXAMINATION OF THE SITE, THE WORK, THE PLANS AND THE SPECIFICATIONS AND IN ITEM 105-04-COORDINATION OF PLANS AND SPECIFICATIONS.

NOTE

THE FOUNDATION DATA SHEETS ARE FOR DESIGN INFORMATION AND SHOULD NOT BE USED FOR CONSTRUCTION. REFER TO THE DESIGN PROFILE AND CROSS SECTIONS IN THE CONSTRUCTION PLANS FOR THE HORIZONTAL AND VERTICAL ALIGNMENTS TO BE CONSTRUCTED. THE HORIZONTAL AND VERTICAL ALIGNMENTS SHOWN ON THE FOUNDATION DATA SHEETS REFLECT THE GEOMETRY AS OF NOVEMBER, 2006.

CONSTRUCTABILITY FIELD REVIEW

GEOTECHNICAL CONSULTANT FLORENCE & HUTCHESON, INC.
ENGINEER J. SHANNON PROVANCE
P.E. NO. 40003-1213-14
GEOTECHNICAL ENGINEERING FILE NO. 4011502

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31A

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

GEOTECHNICAL NOTES

1. The natural moisture contents of the overburden soils at the time of drilling were typically near or above the upper limit of the 95% compaction moisture range. Drying, handling, and manipulation of the soils is likely to be required in order to obtain the proper moisture content required to satisfy the compaction requirement.

2. Some of the highly plastic A-7 soils encountered within drilled intervals on this project have relatively low dry densities as determined by the standard proctor test. All material within three feet of the final subgrade elevation in both cut and embankment sections shall have a minimum compacted dry density of 95 PCF or greater. This will require undercutting and refilling when the poor quality soils are encountered at the final subgrade elevation in cut sections. Furthermore, if the earthwork balance for the project is a waste situation, the highly plastic A-7 soils should be the material that is wasted first.

3. Installation of erosion control matting and establishment of vegetation shall be conducted as soon as practical to prevent erosion of the cut and fill slopes.

4 A soil shrinkage factor of 15% has been estimated for this project.

5 A 3 foot blanket of Select Granular Material shall be placed in the lower portions of the embankment in the following intervals, in accordance with TDOT Specifications and as directed by the Engineer. This layer shall be underlain and overlaid with Type IV Geotextile Fabric and will be placed to allow construction to continue across wet areas, to promote drainage of seepage zones, and to provide a working platform for construction activities.

Station 25+00 to Station 40+00
Station 84+50 to Station 85+50
Station 94+50 to Station 96+00
Station 103+00 to Station 105+50
Station 117+00 to Station 121+00
Station 126+00 to Station 130+50
Station 136+50 to Station 140+00
Station 159+00 to Station 160+50

6 An existing bridge over an abandoned railroad track will be removed and replaced with embankment materials at approximate Station 29+50. As discussed in Note 5 above, a 3 foot blanket of Select Granular Material underlain with Type IV Geotextile Fabric shall be placed in the lower portion of this new embankment , in accordance with TDOT Specifications and as directed by the Engineer. In addition, embankment benching shall be utilized to help reduce slope instability and to help minimize differential settlement within this interval. This benching shall occur along the existing side slopes, as well as the existing "abutment" slopes as shown on the Special Detail sheet included with this report.

7 The proposed alignment intercepts a large pond at approximate Station 127+00. To minimize the impact of the proposed roadway on the large pond, a retaining wall will be utilized. Once a finalized wall configuration has been determined, the TDOT Geotechnical Section shall be contacted to determine if additional geotechnical input is required.

CONSTRUCTABILITY
FIELD
REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

GEOTECHNICAL NOTES

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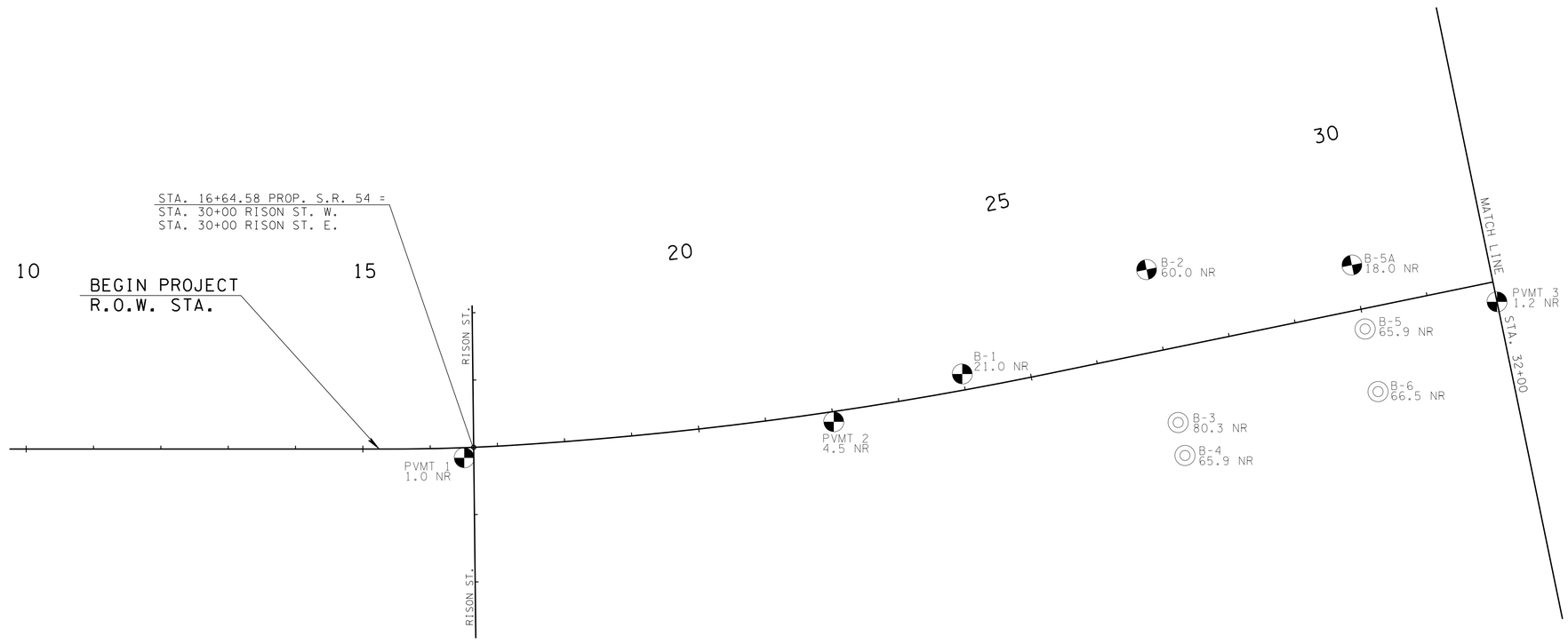
Survey & Design Division

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31B



CONSTRUCTABILITY FIELD REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BORING LAYOUT

B.O.P. TO STA. 32+00

SCALE: 1"= 100'

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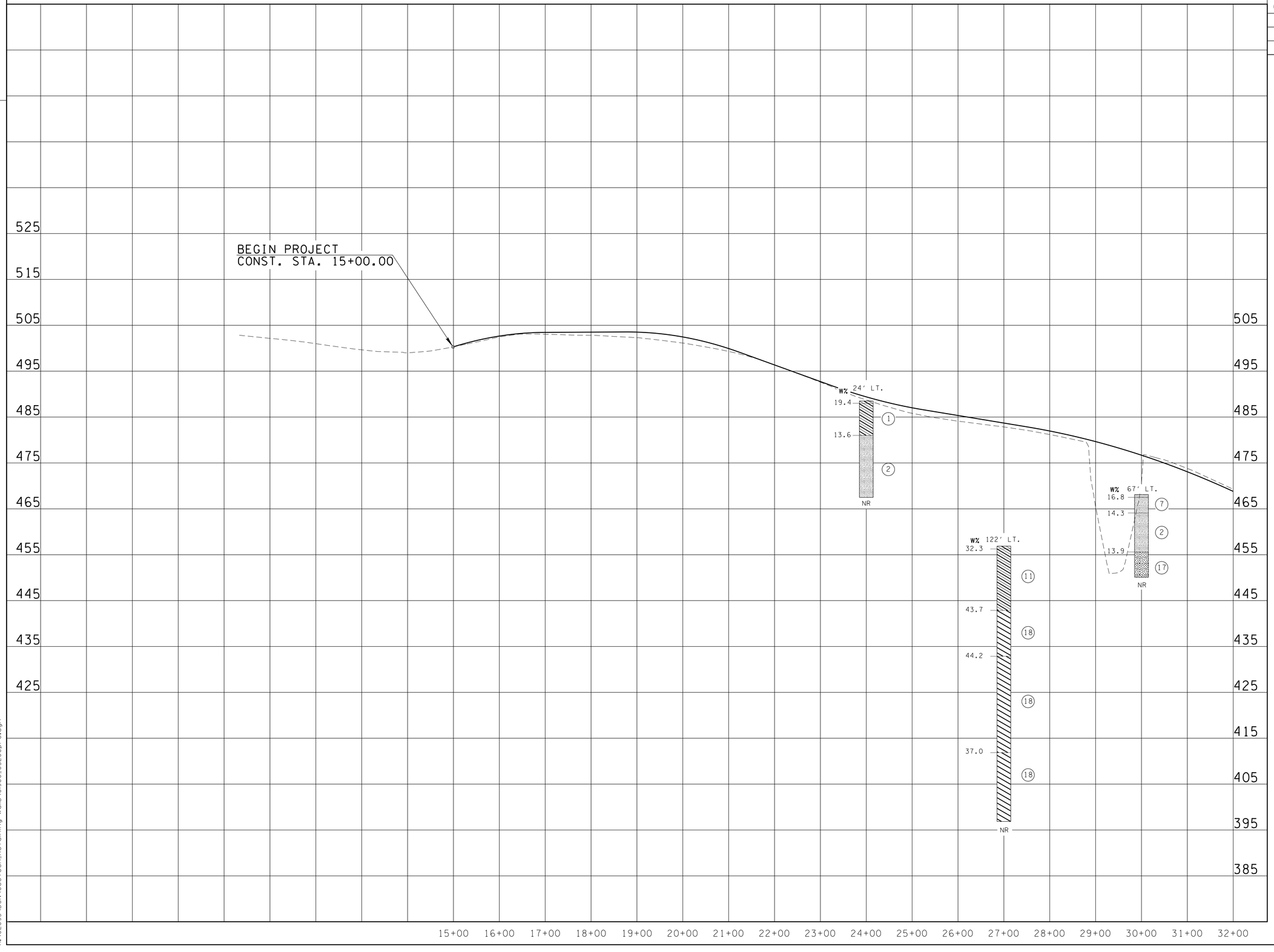
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31C



CONSTRUCTABILITY
FIELD
REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL PROFILE

STA.15+00 TO STA.32+00
SCALE: 1"=100' HORIZ.
1"=10' VERT.

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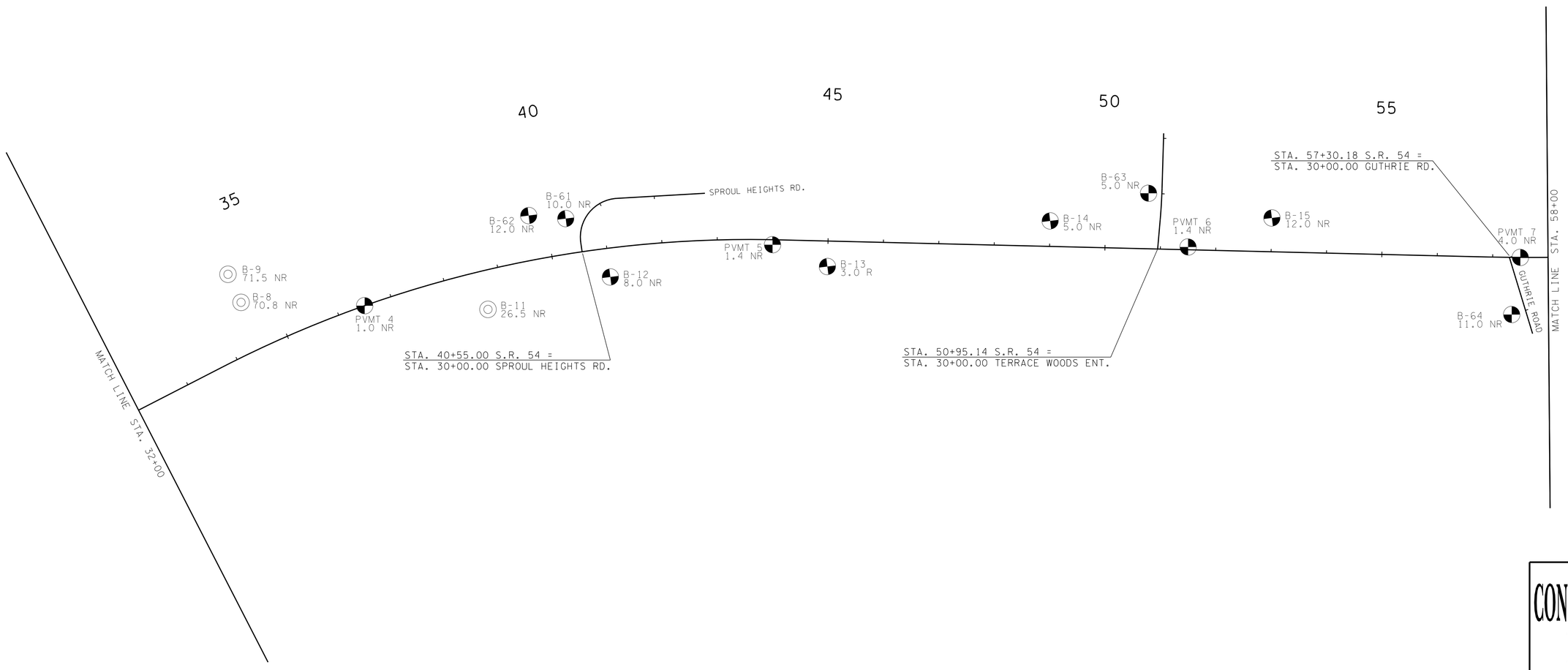
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31D



CONSTRUCTABILITY
FIELD
REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BORING
LAYOUT

STA. 32+00 TO STA. 58+00

SCALE: 1"= 100'

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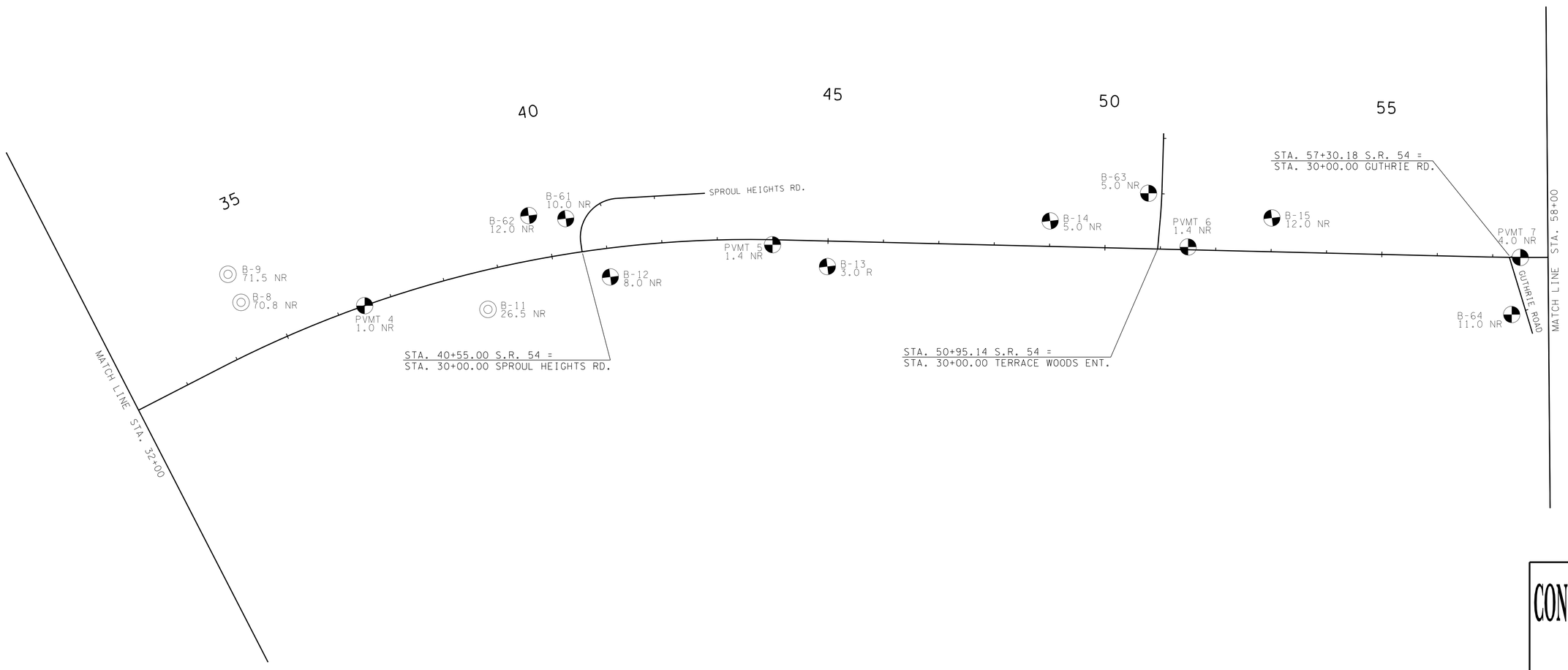
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31D



CONSTRUCTABILITY
FIELD
REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BORING
LAYOUT

STA. 32+00 TO STA. 58+00

SCALE: 1"= 100'

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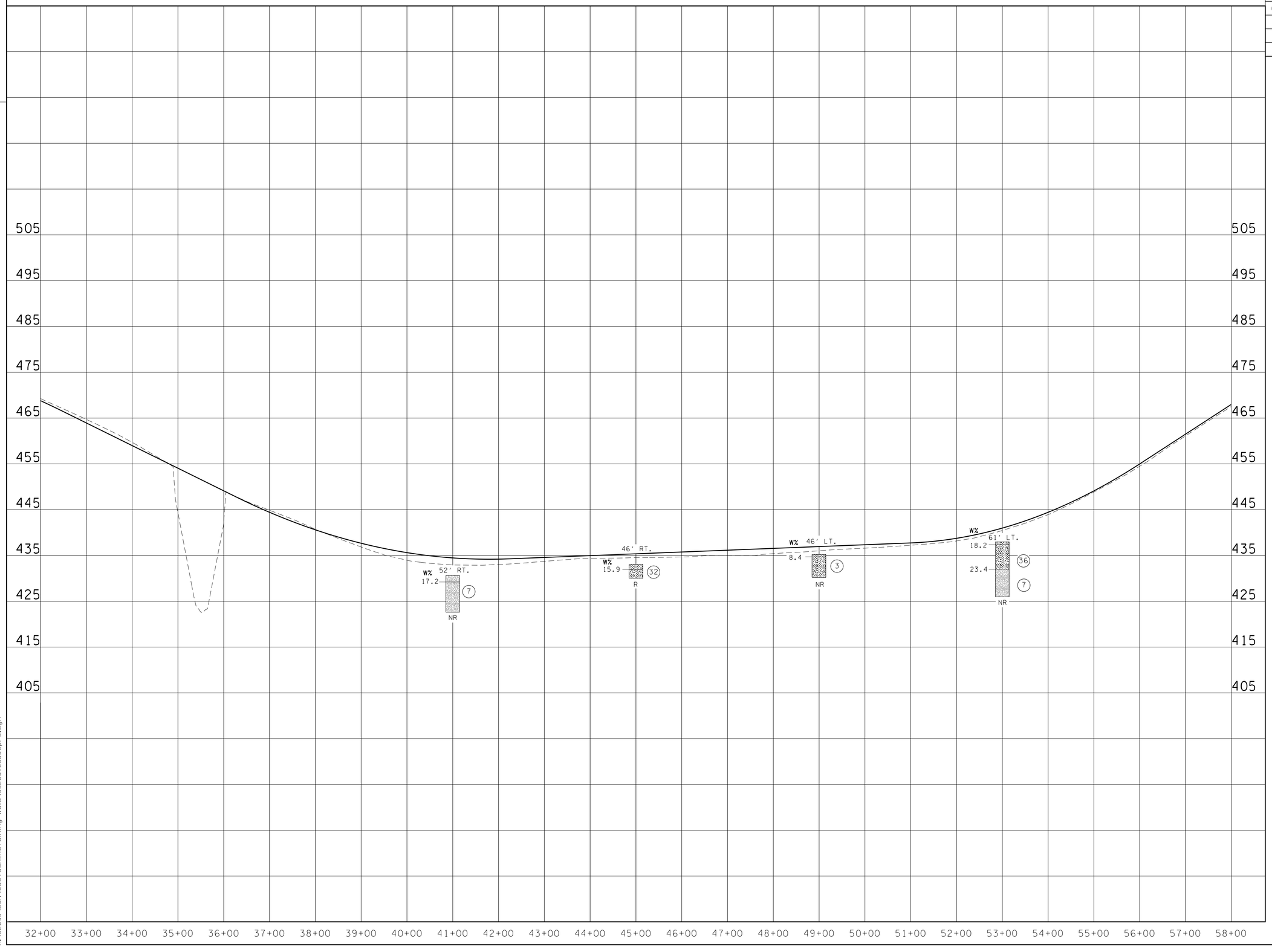
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31E



CONSTRUCTABILITY
FIELD
REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL
PROFILE

STA.32+00 TO STA.58+00
SCALE: 1"=100' HORIZ.
1"=10' VERT.

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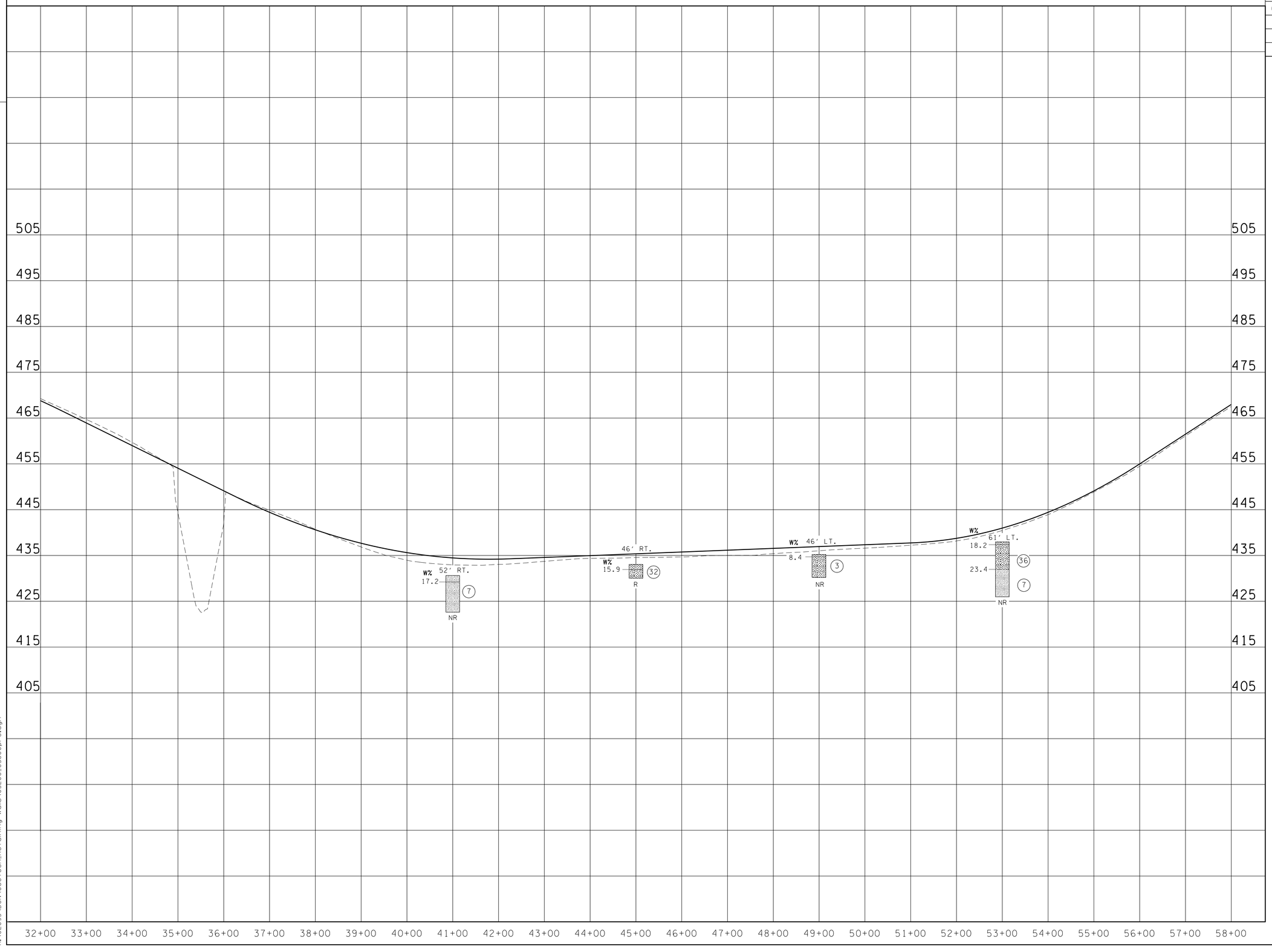
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31E



CONSTRUCTABILITY
FIELD
REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL
PROFILE

STA.32+00 TO STA.58+00
SCALE: 1"=100' HORIZ.
1"=10' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
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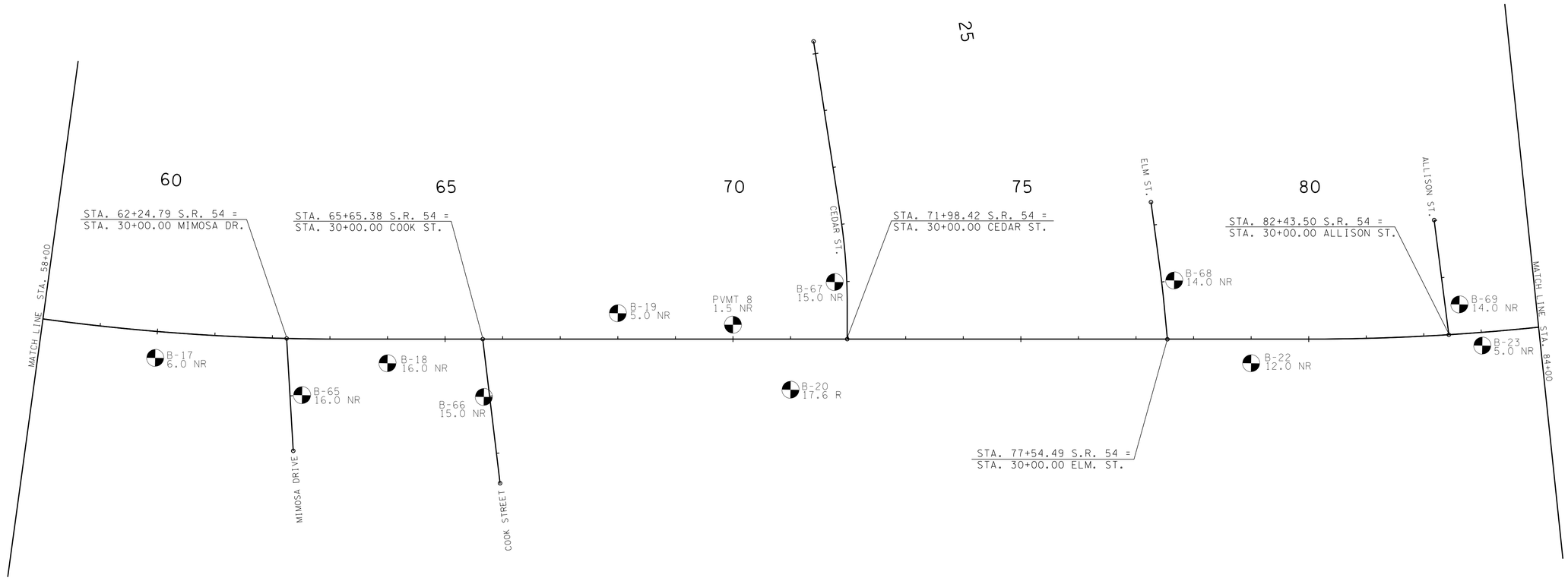

CONSTRUCTABILITY FIELD REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BORING LAYOUT

STA. 58+00 TO STA. 84+00

SCALE: 1"= 100'

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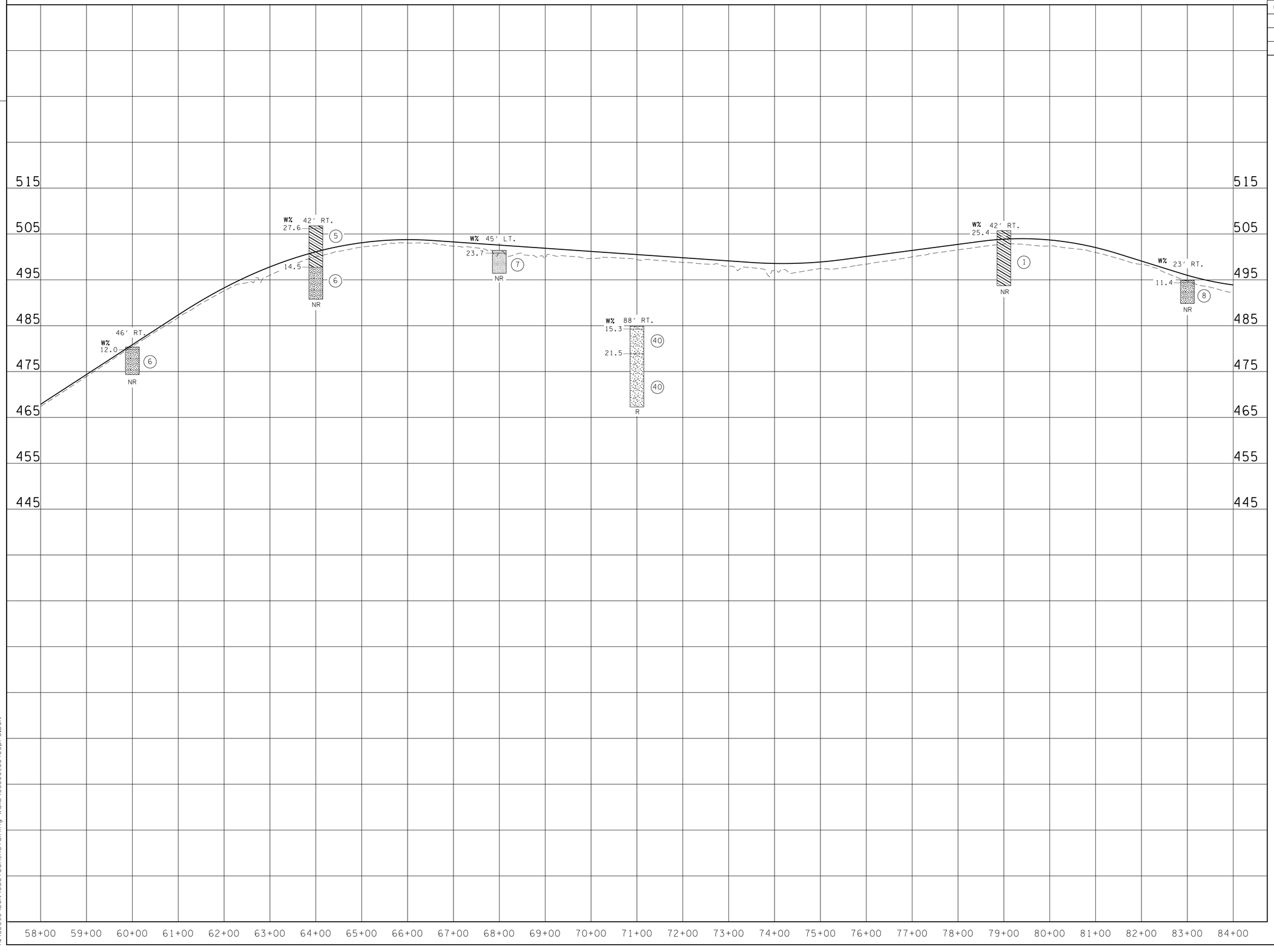
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31G



CONSTRUCTABILITY
FIELD
REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL
PROFILE
STA.58+00 TO STA.84+00
SCALE: 1"=100' HORIZ.
1"=10' VERT.

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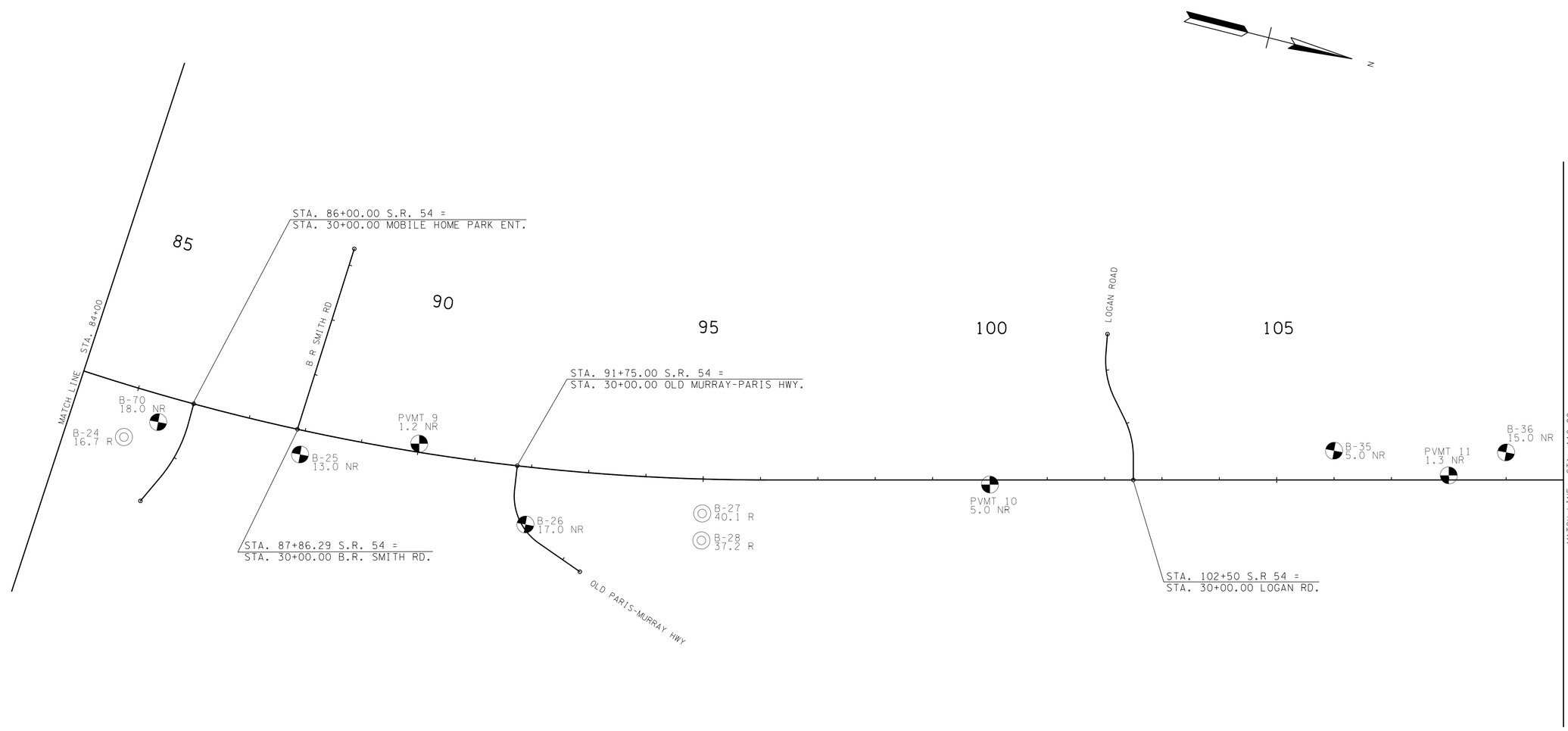
TENNESSEE D.O.T.	DESIGN DIVISION	FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31H



CONSTRUCTABILITY FIELD REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BORING LAYOUT

STA. 84+00 TO STA. 110+00

SCALE: 1"= 100'

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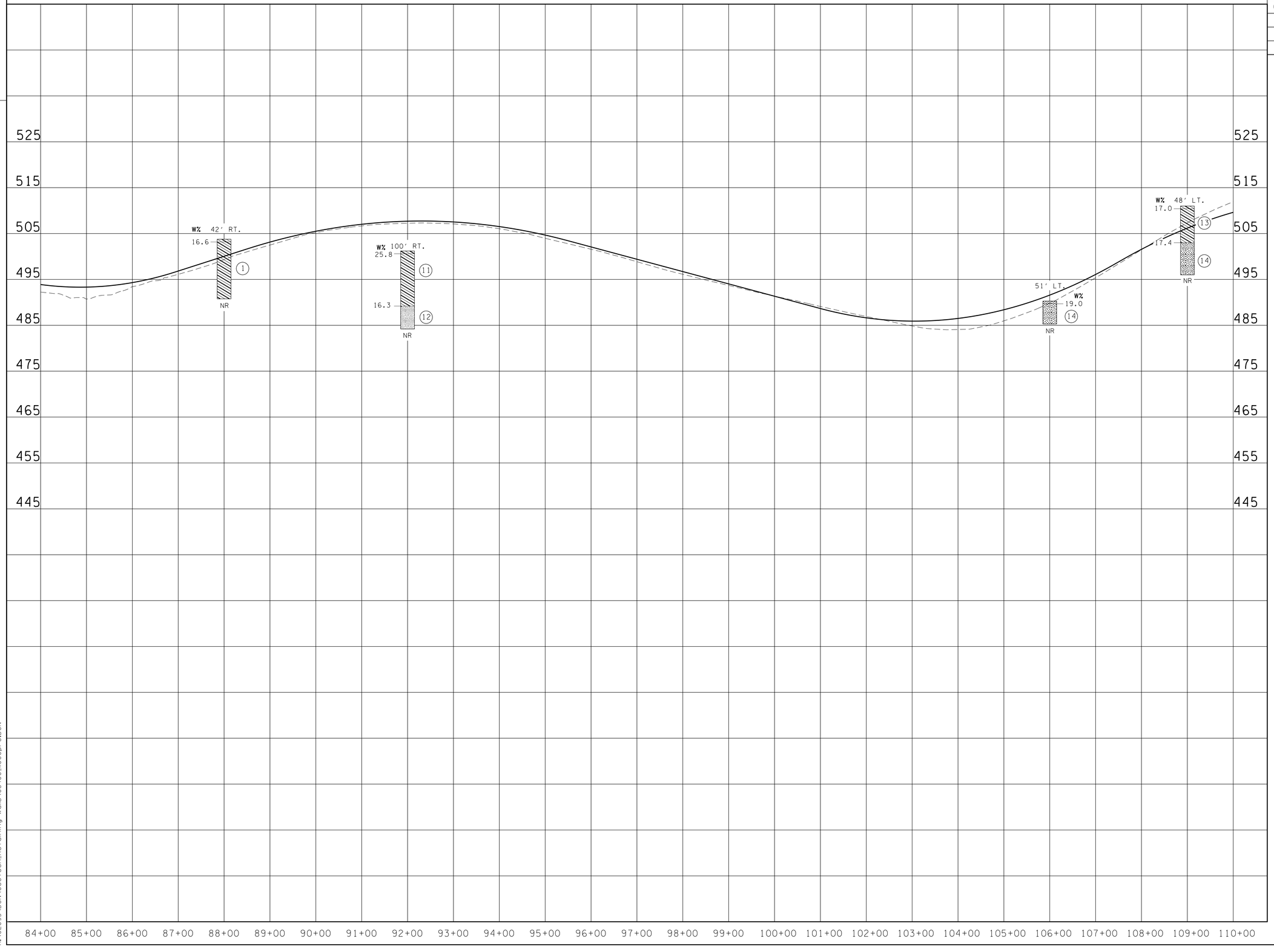
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31 I



CONSTRUCTABILITY
FIELD
REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL
PROFILE

STA.84+00 TO STA.110+00
SCALE: 1"=100' HORIZ.
1"=10' VERT.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
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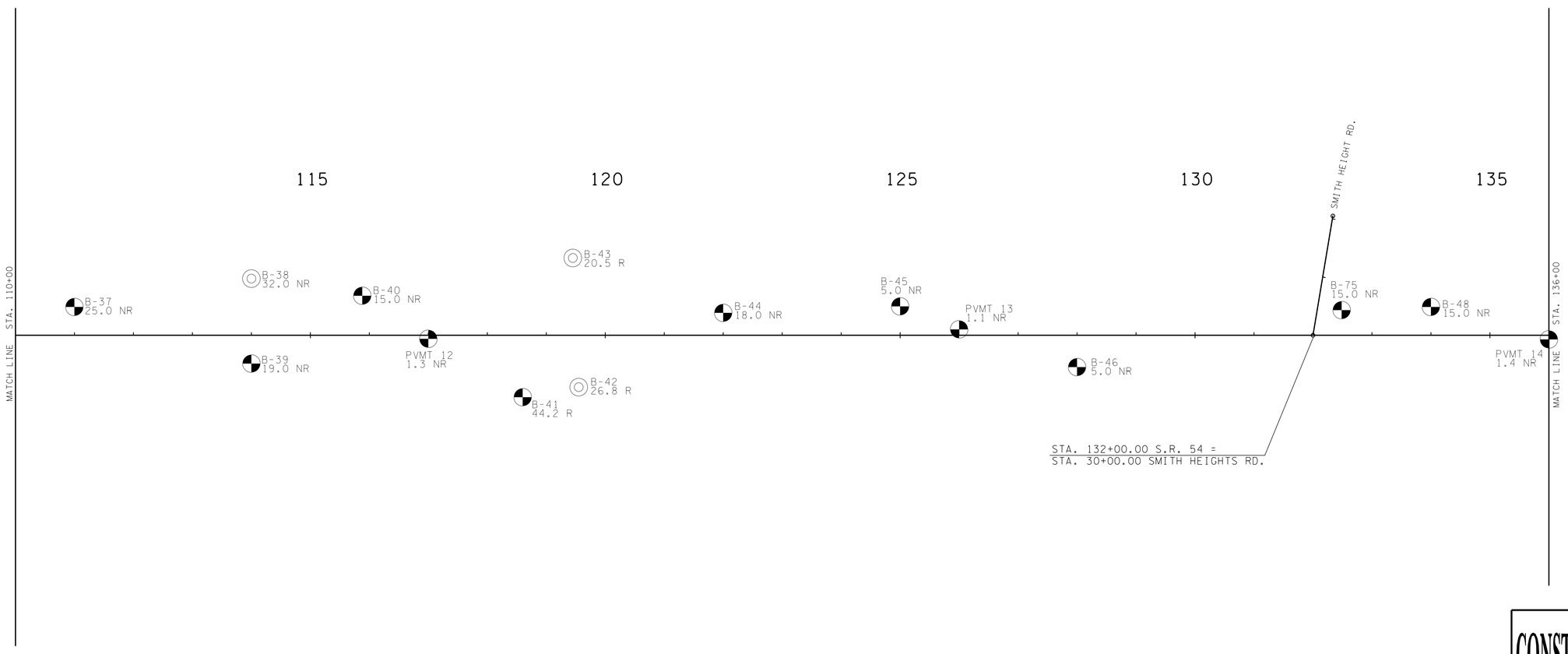

CONSTRUCTABILITY FIELD REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BORING LAYOUT

STA.110+00 TO STA. 136+00

SCALE: 1"= 100'

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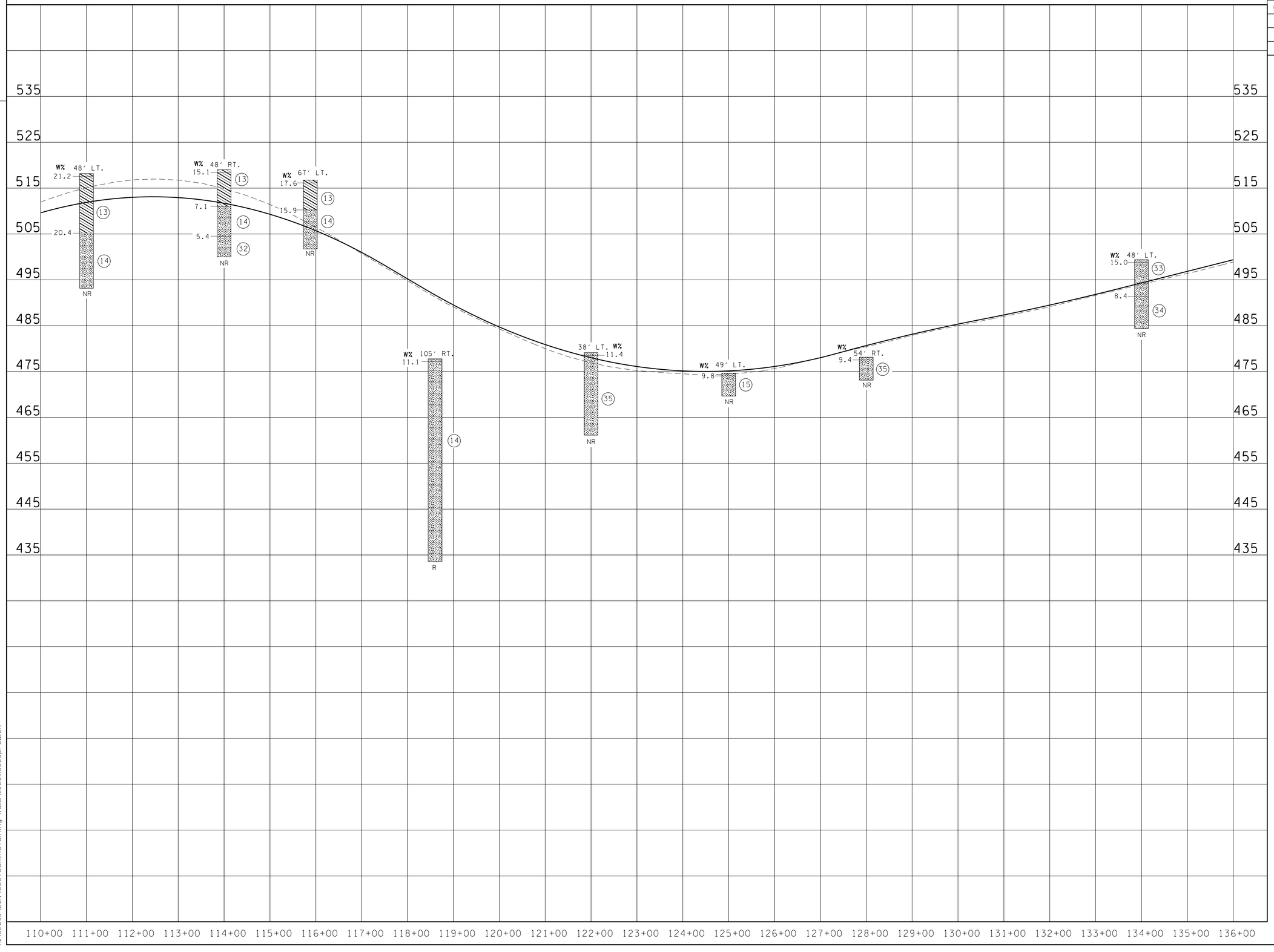
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31K



CONSTRUCTABILITY
FIELD
REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL
PROFILE

STA.110+00 TO STA.136+00
SCALE: 1"=100' HORIZ.
1"=10' VERT.

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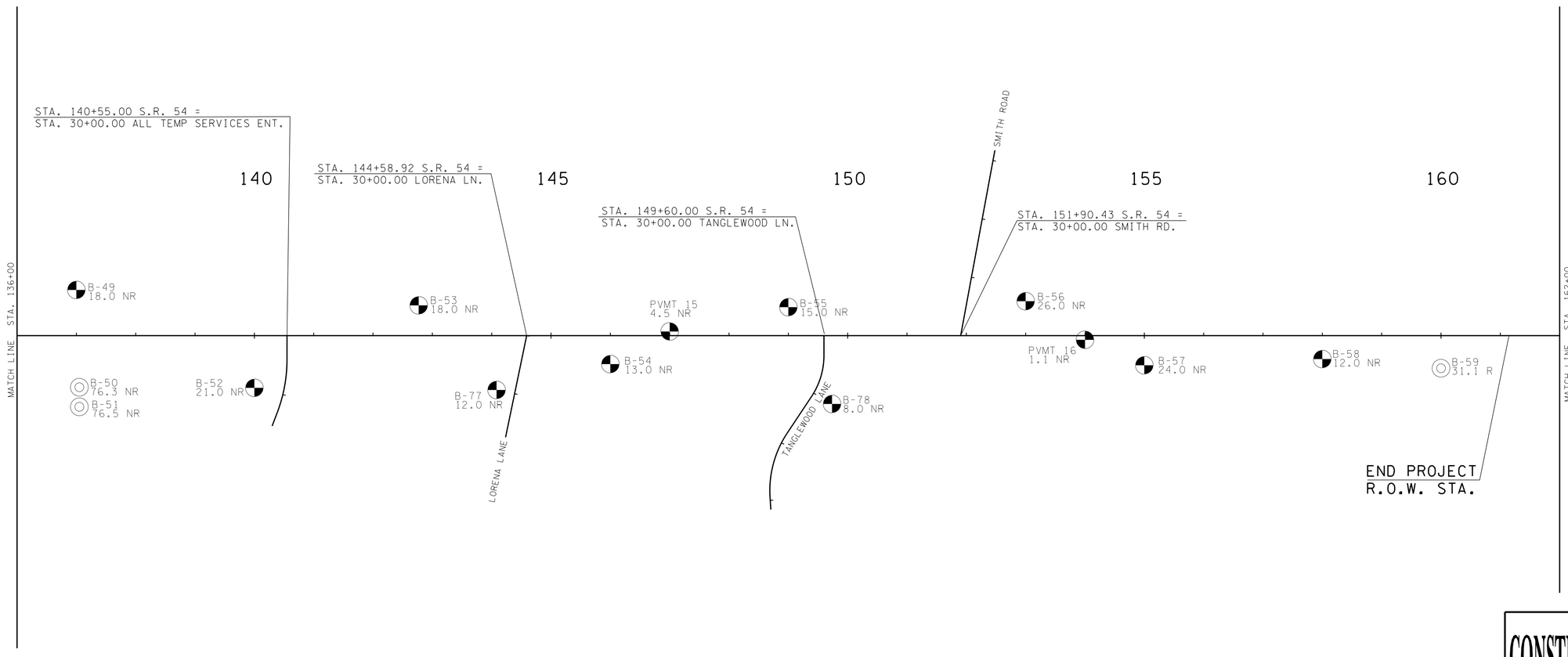
TENNESSEE D.O.T.	DESIGN DIVISION	FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31L



CONSTRUCTABILITY FIELD REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BORING LAYOUT

STA.136+00 TO STA. 162+00

SCALE: 1"= 100'

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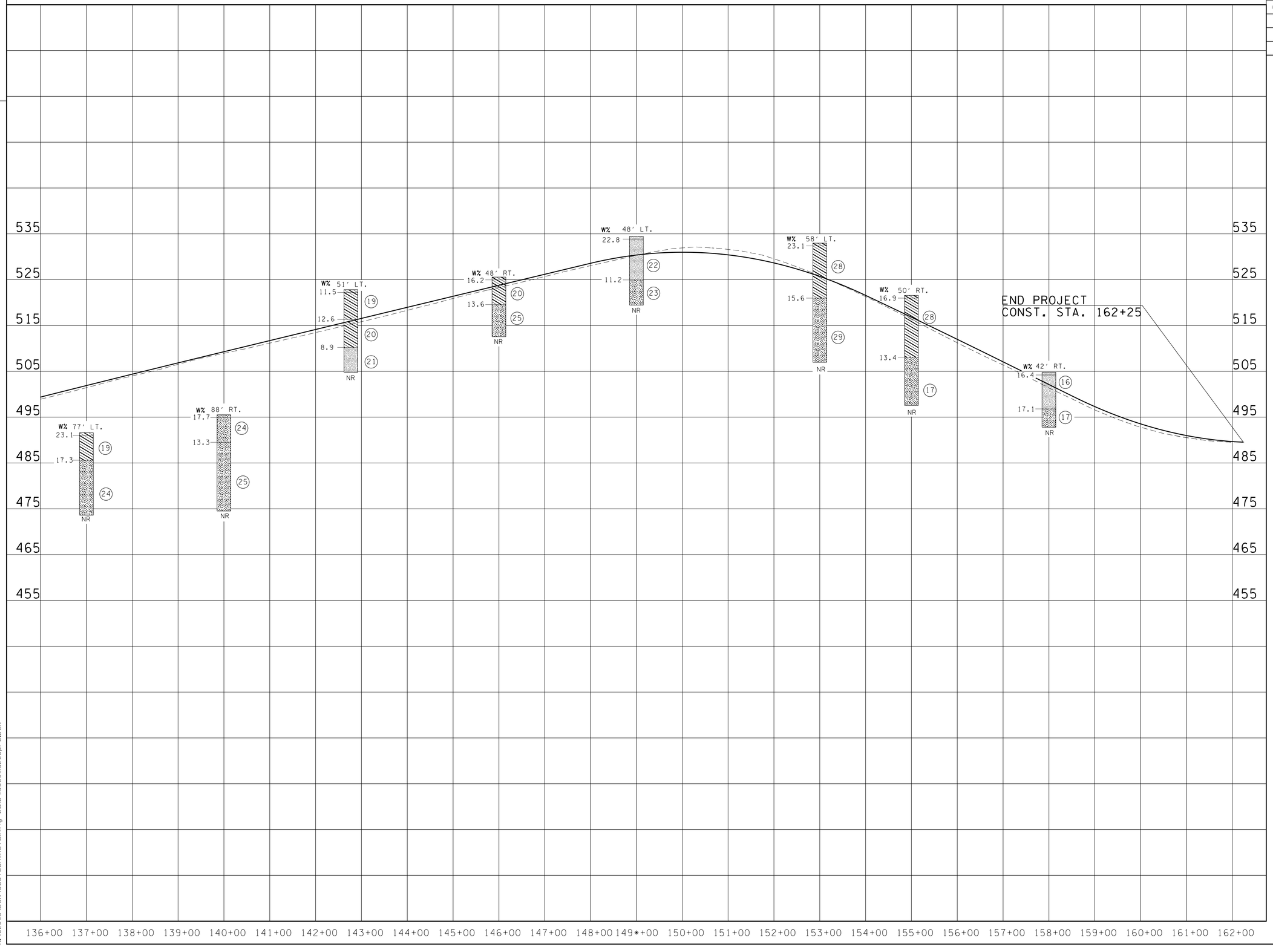
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31M



CONSTRUCTABILITY
FIELD
REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SOIL
PROFILE

STA.136+00 TO STA.162+00
SCALE: 1"=100' HORIZ.
1"=10' VERT.

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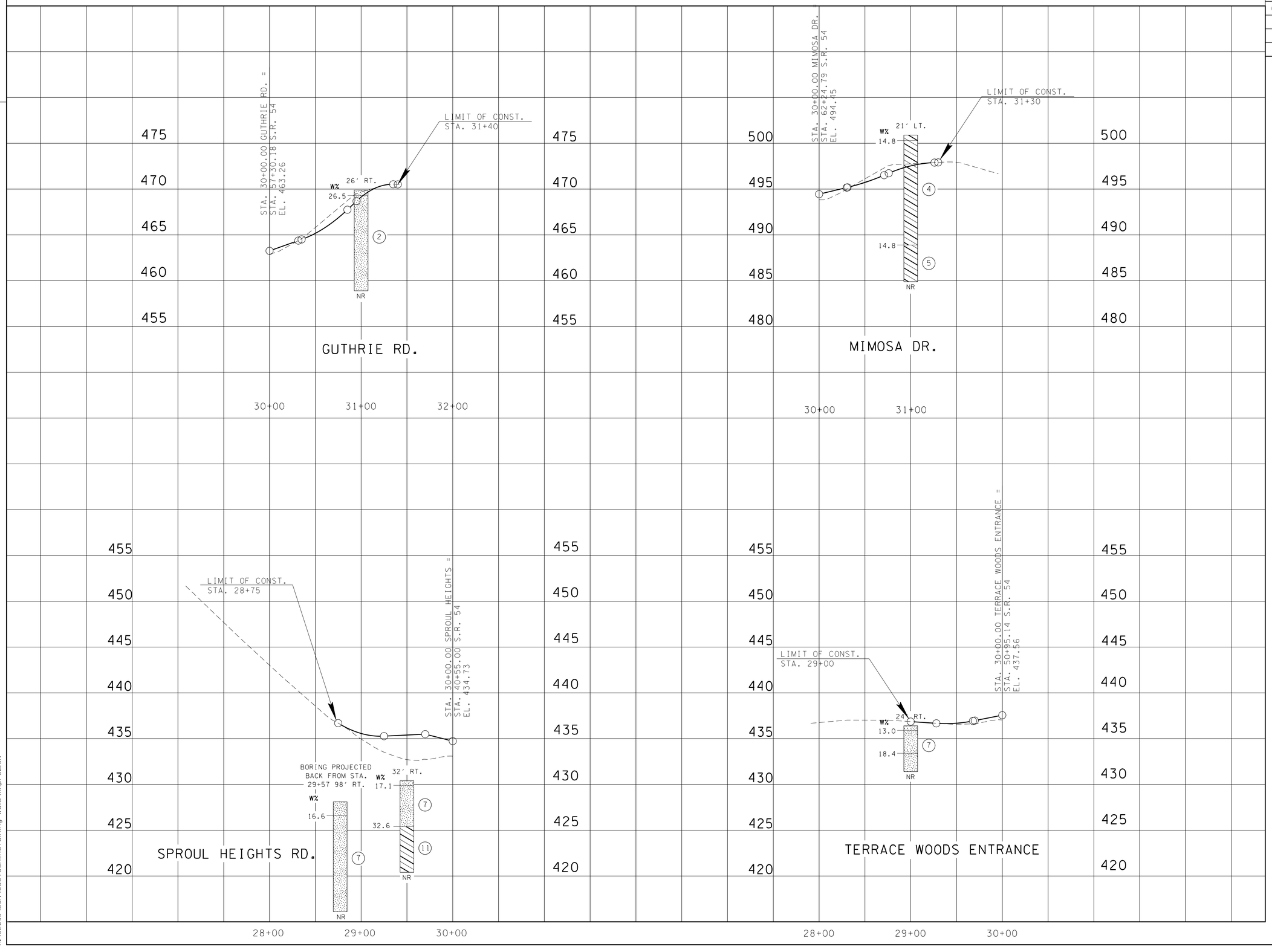
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31N



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

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

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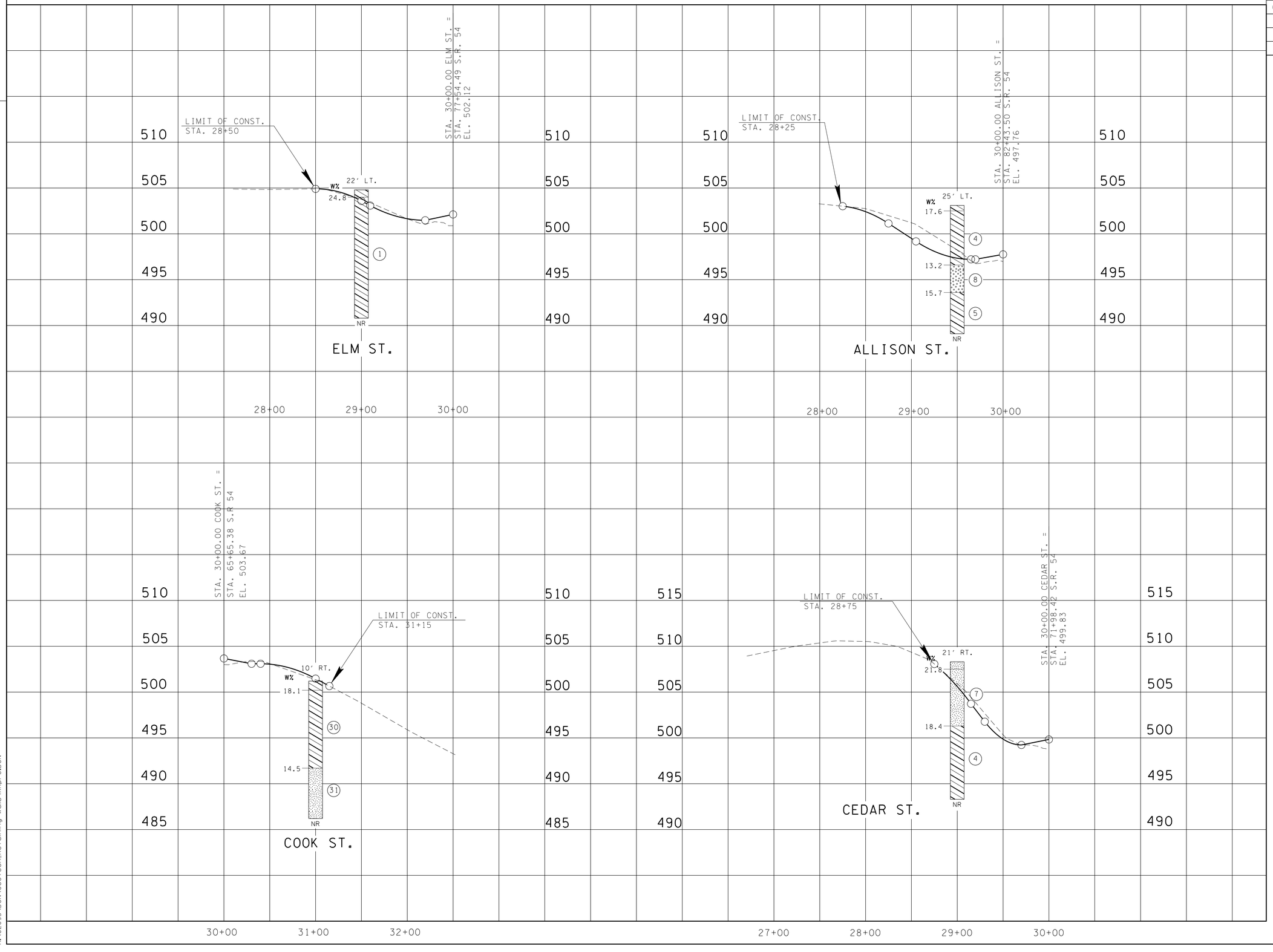
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31 0



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

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

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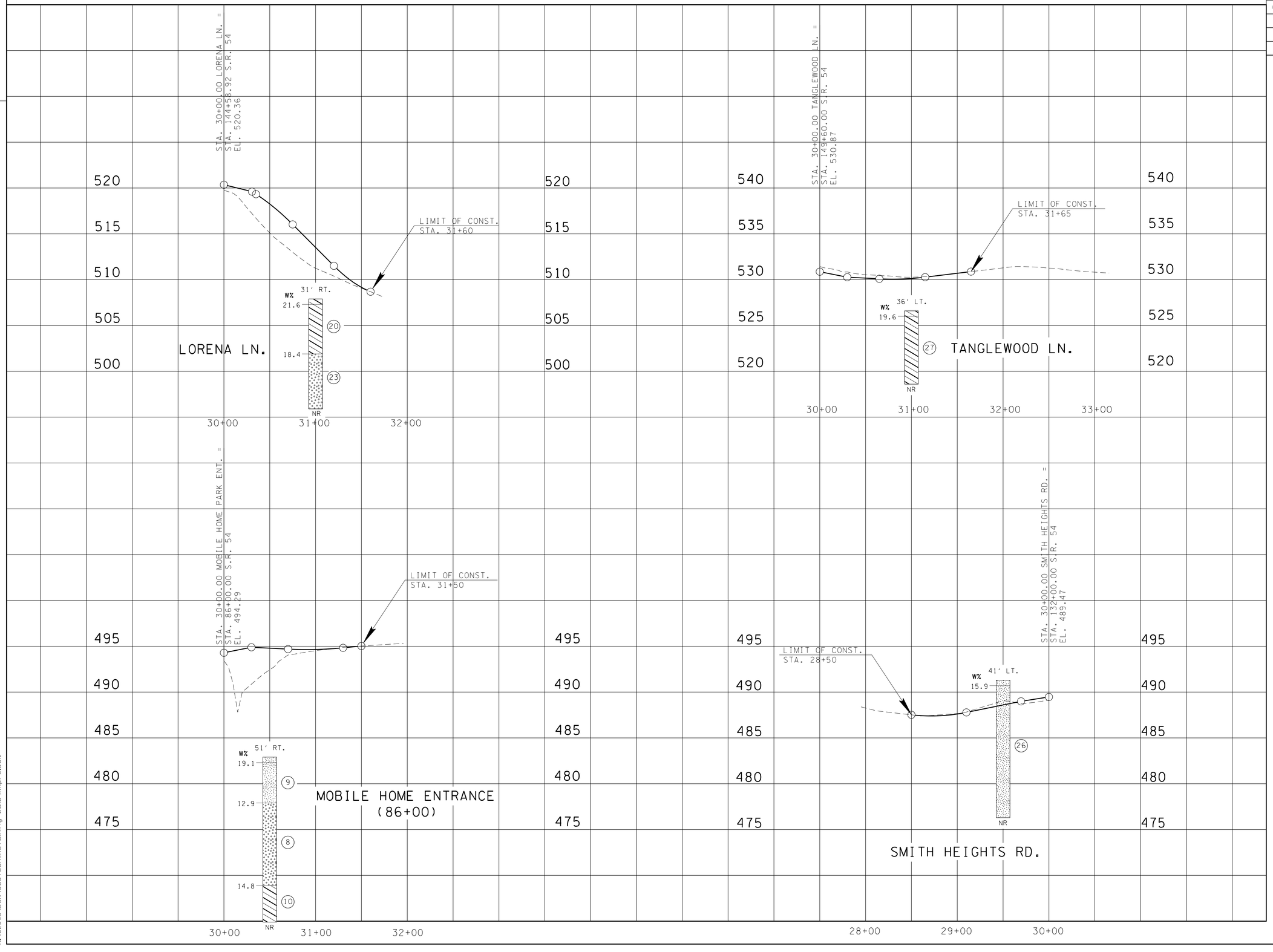
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31P



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

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

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

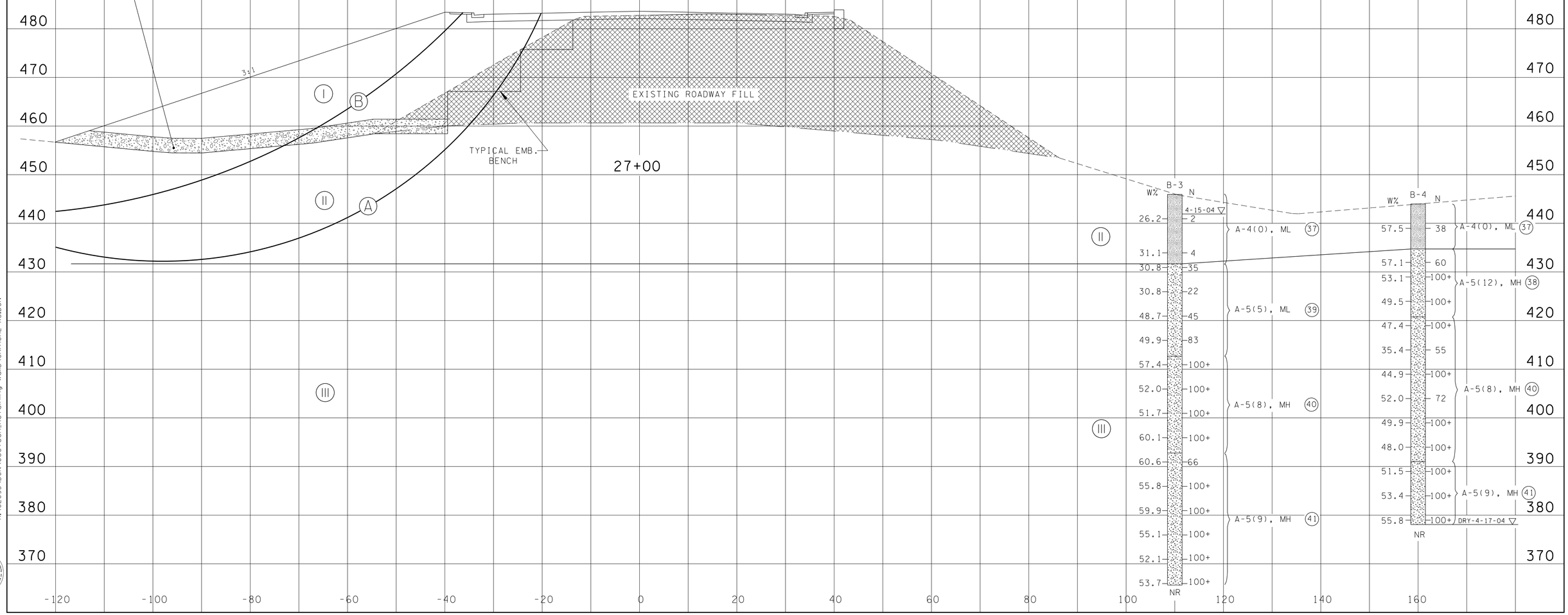
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	310

CONSTRUCTABILITY FIELD REVIEW

ASSUMED SOIL STRENGTH PARAMETERS			
SOIL	I	II	III
Short Term	c=1200 PSF ϕ= 0° γ=130 PCF	c=900 PSF ϕ= 0° γ=120 PCF	c=1500 PSF ϕ=0° γ=115 PCF
Long Term	$\bar{c}$=250 PSF $\bar{\phi}$=30° γ=130 PCF	$\bar{c}$=100 PSF $\bar{\phi}$=30° γ=120 PCF	$\bar{c}$=250 PSF $\bar{\phi}$=28° γ=115 PCF

FACTORS OF SAFETY		
Short Term	A	1.5
Long Term	B	2.2

NOTE: 3' BLANKET OF SELECT GRANULAR MATERIAL TO BE PLACED IN LOWER PORTIONS OF THE EMBANKMENT FROM APPROXIMATE STA. 25+00 TO STA. 40+00, IN ACCORDANCE WITH TDOT SPECIFICATIONS. LAYER SHALL BE UNDERLAIN AND OVERLAID WITH TYPE IV GEOTEXTILE FABRIC.



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Survey & Design Division

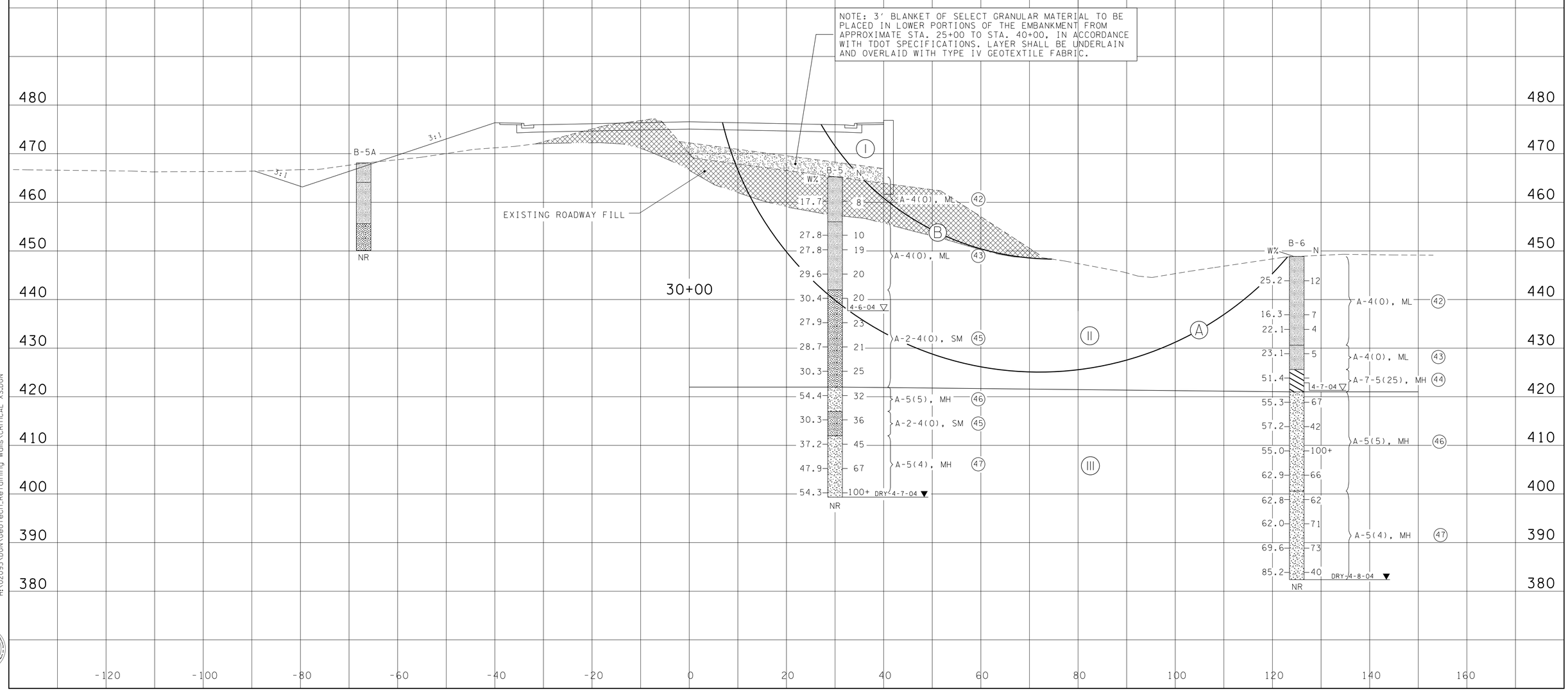
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31R

CONSTRUCTABILITY FIELD REVIEW

ASSUMED SOIL STRENGTH PARAMETERS			
SOIL	I	II	III
Short Term	c=1200 PSF Φ= 0° γ=130 PCF	c=1000 PSF Φ= 0° γ=120 PCF	c=1500 PSF Φ=0° γ=115 PCF
Long Term	c̄=250 PSF φ̄=30° γ=130 PCF	c̄=150 PSF φ̄=30° γ=120 PCF	c̄=250 PSF φ̄=28° γ=115 PCF

FACTORS OF SAFETY		
Short Term	A	1.5
Long Term	B	1.4



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Survey & Design Division

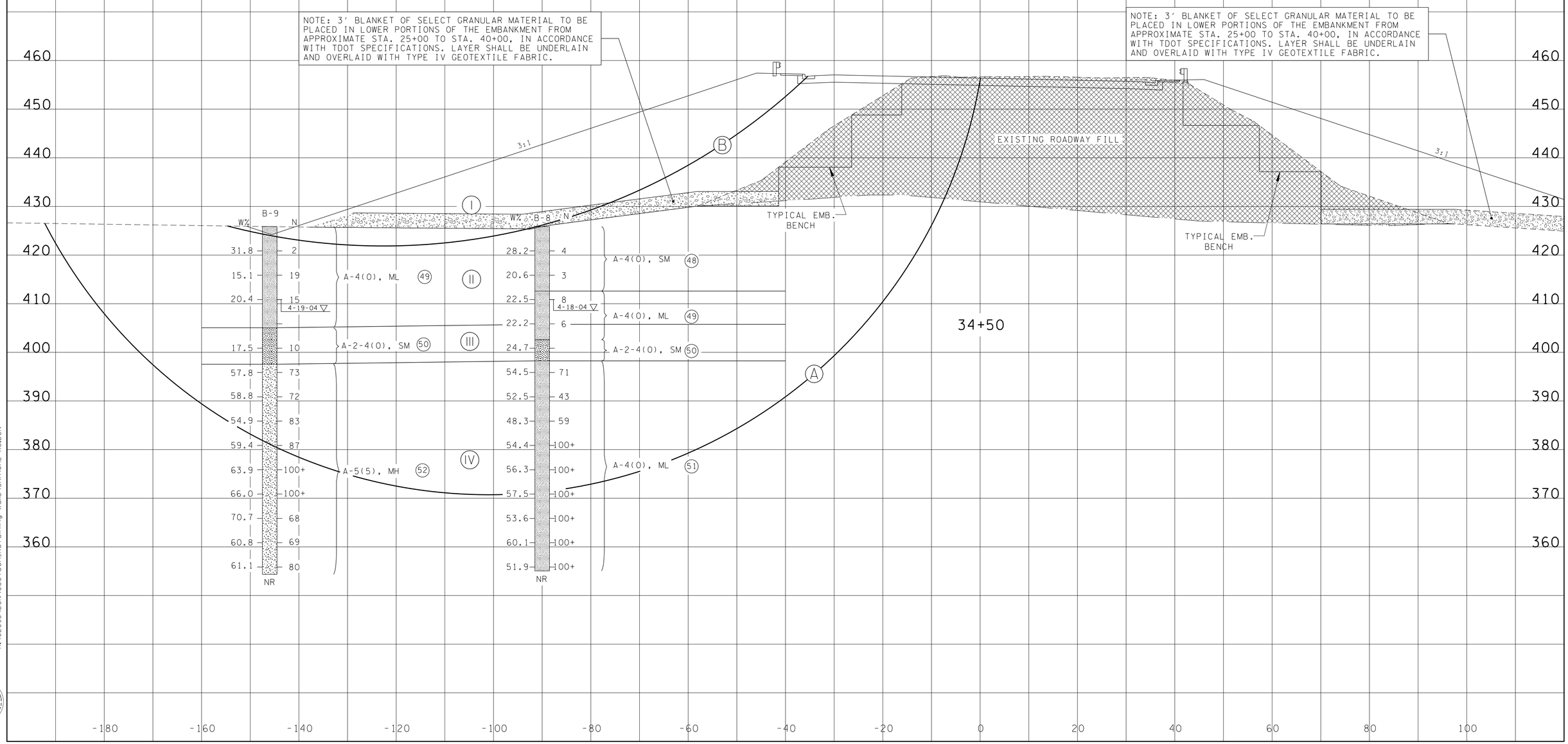
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31S

CONSTRUCTABILITY FIELD REVIEW

ASSUMED SOIL STRENGTH PARAMETERS				
SOIL	I	II	III	IV
Short Term	c=1200 PSF Φ= 0° γ=130 PCF	c=900 PSF Φ= 0° γ=120 PCF	c=40 PSF Φ=28° γ=115 PCF	c=1000 PSF Φ=0° γ=130 PCF
Long Term	$\bar{c}$=250 PSF $\bar{\Phi}$=30° γ=130 PCF	$\bar{c}$=100 PSF $\bar{\Phi}$=30° γ=120 PCF	$\bar{c}$=0 PSF $\bar{\Phi}$=28° γ=115 PCF	$\bar{c}$=200 PSF $\bar{\Phi}$=30° γ=130 PCF

FACTORS OF SAFETY		
Short Term	A	1.7
Long Term	B	2.4



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Survey & Design Division

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

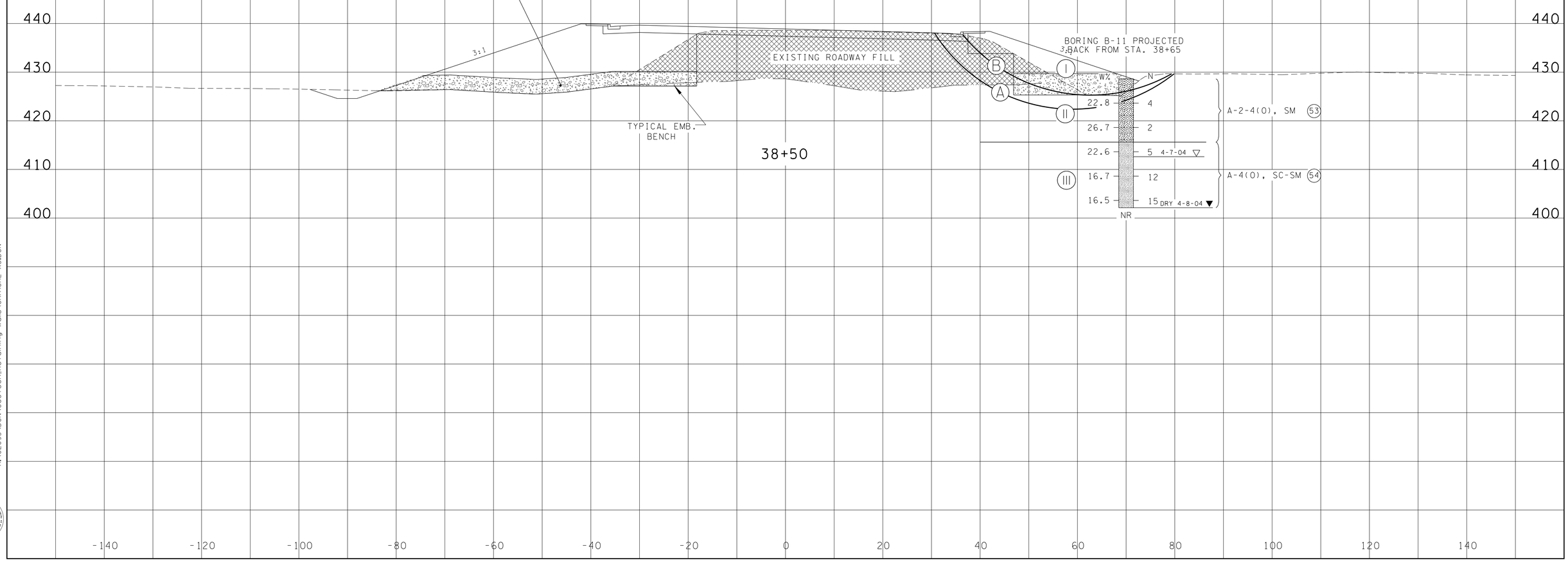
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31T

CONSTRUCTABILITY FIELD REVIEW

ASSUMED SOIL STRENGTH PARAMETERS			
SOIL	I	II	III
Short Term	c=1200 PSF ϕ= 0° γ=130 PCF	c=40 PSF ϕ=28° γ=120 PCF	c=0 PSF ϕ=30° γ=115 PCF
Long Term	$\bar{c}$=250 PSF $\bar{\phi}$=30° γ=130 PCF	$\bar{c}$=0 PSF $\bar{\phi}$=28° γ=120 PCF	$\bar{c}$=0 PSF $\bar{\phi}$=30° γ=115 PCF

FACTORS OF SAFETY		
Short Term	A	3.5
Long Term	B	2.5

NOTE: 3' BLANKET OF SELECT GRANULAR MATERIAL TO BE PLACED IN LOWER PORTIONS OF THE EMBANKMENT FROM APPROXIMATE STA. 25+00 TO STA. 40+00, IN ACCORDANCE WITH TDOT SPECIFICATIONS. LAYER SHALL BE UNDERLAIN AND OVERLAID WITH TYPE IV GEOTEXTILE FABRIC.



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Survey & Design Division

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

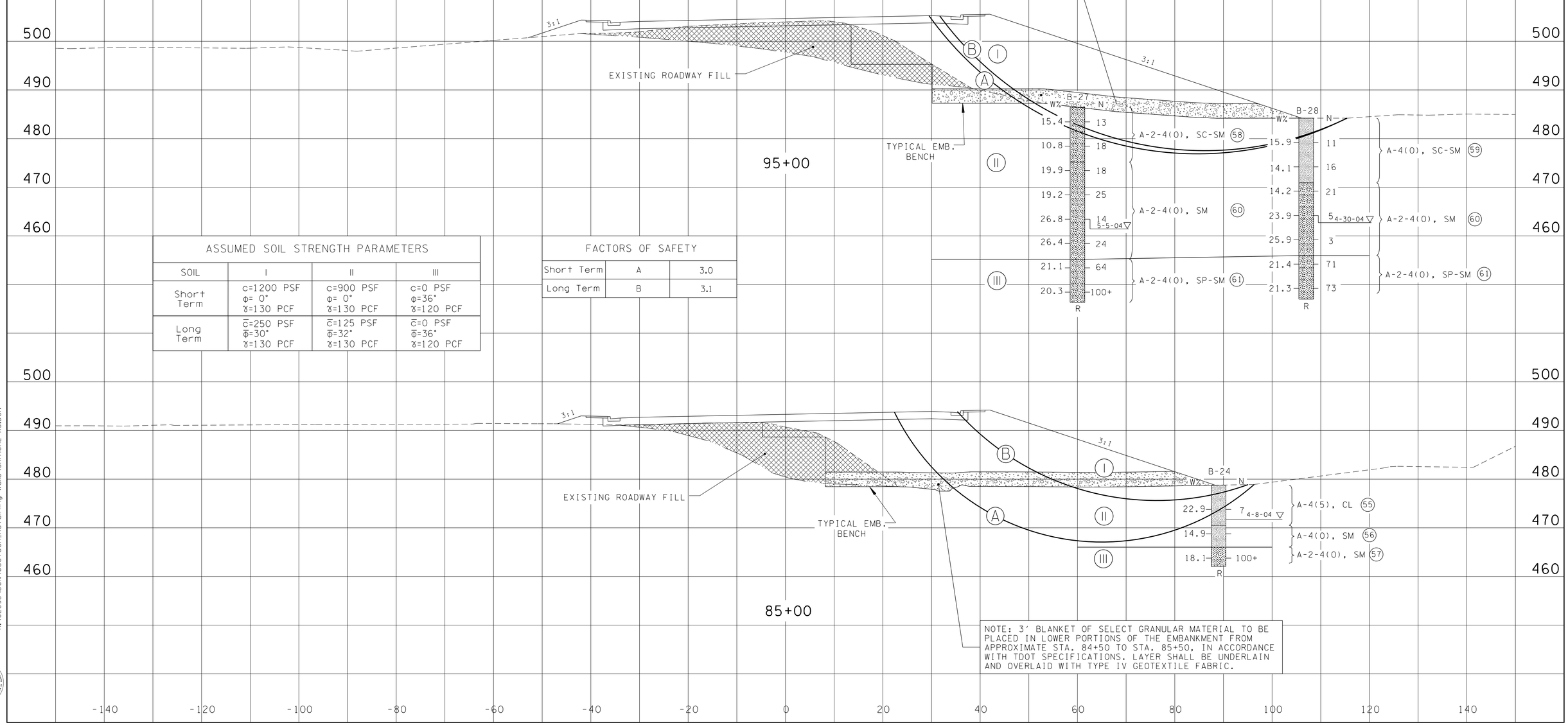
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31U

CONSTRUCTABILITY FIELD REVIEW

ASSUMED SOIL STRENGTH PARAMETERS			
SOIL	I	II	III
Short Term	c=1200 PSF Φ= 0° γ=130 PCF	c=40 PSF Φ=28° γ=115 PCF	c=0 PSF Φ=34° γ=120 PCF
Long Term	$\bar{c}$=250 PSF $\bar{\Phi}$=30° γ=130 PCF	$\bar{c}$=0 PSF $\bar{\Phi}$=28° γ=115 PCF	$\bar{c}$=0 PSF $\bar{\Phi}$=34° γ=120 PCF

FACTORS OF SAFETY		
Short Term	A	2.7
Long Term	B	2.2

NOTE: 3' BLANKET OF SELECT GRANULAR MATERIAL TO BE PLACED IN LOWER PORTIONS OF THE EMBANKMENT FROM APPROXIMATE STA. 94+50 TO STA. 96+00, IN ACCORDANCE WITH TDOT SPECIFICATIONS. LAYER SHALL BE UNDERLAIN AND OVERLAID WITH TYPE IV GEOTEXTILE FABRIC.



ASSUMED SOIL STRENGTH PARAMETERS			
SOIL	I	II	III
Short Term	c=1200 PSF Φ= 0° γ=130 PCF	c=900 PSF Φ= 0° γ=130 PCF	c=0 PSF Φ=36° γ=120 PCF
Long Term	$\bar{c}$=250 PSF $\bar{\Phi}$=30° γ=130 PCF	$\bar{c}$=125 PSF $\bar{\Phi}$=32° γ=130 PCF	$\bar{c}$=0 PSF $\bar{\Phi}$=36° γ=120 PCF

FACTORS OF SAFETY		
Short Term	A	3.0
Long Term	B	3.1

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Survey & Design Division

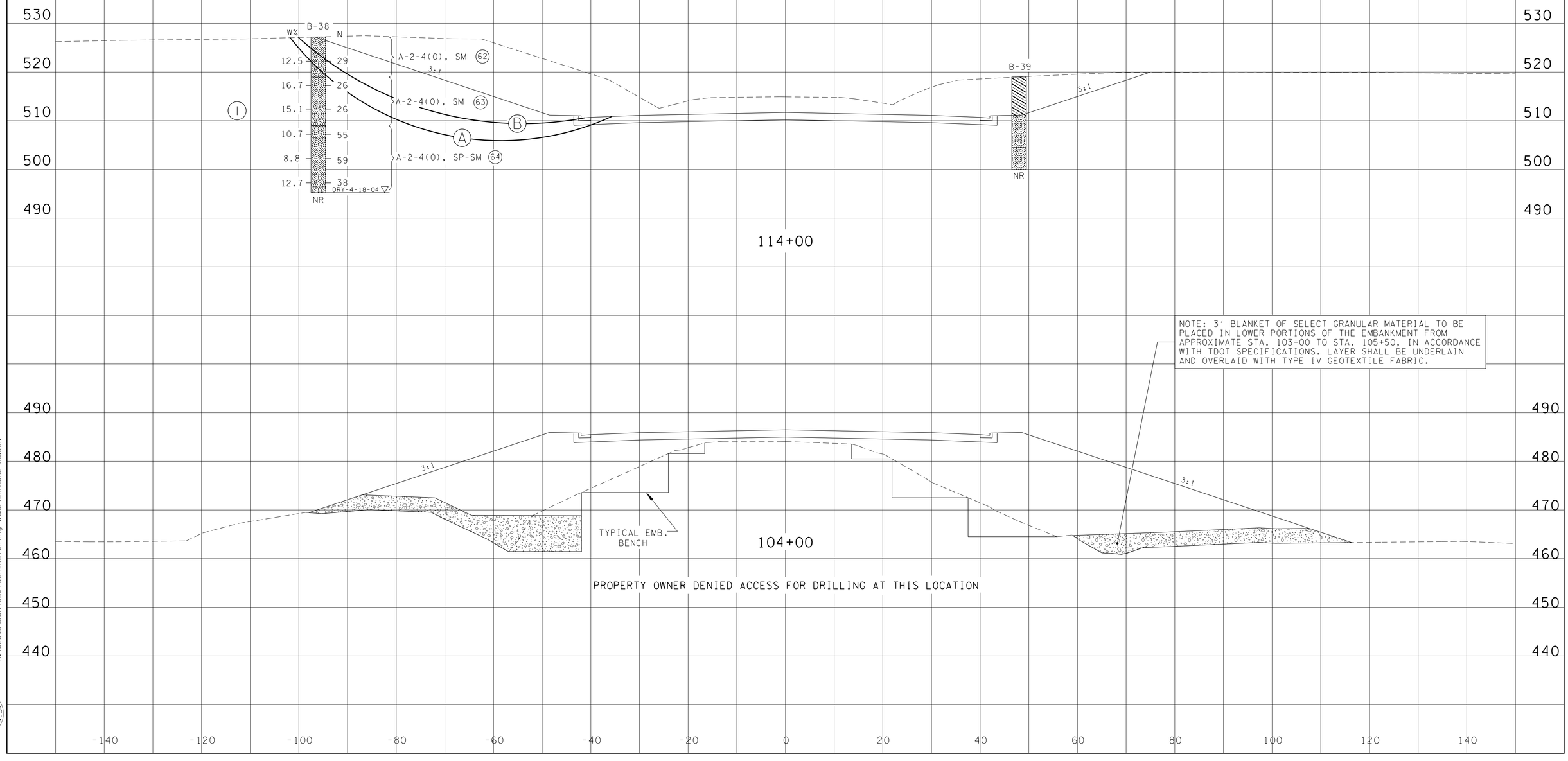
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31V

CONSTRUCTABILITY FIELD REVIEW

ASSUMED SOIL STRENGTH PARAMETERS	
SOIL	I
Short Term	$\bar{c}$=400 PSF $\bar{\Phi}$=30° γ=120 PCF
Long Term	$\bar{c}$=100 PSF $\bar{\Phi}$=30° γ=120 PCF

FACTORS OF SAFETY		
Short Term	A	4.8
Long Term	B	3.2



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Survey & Design Division

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31W

CONSTRUCTABILITY FIELD REVIEW

137+00

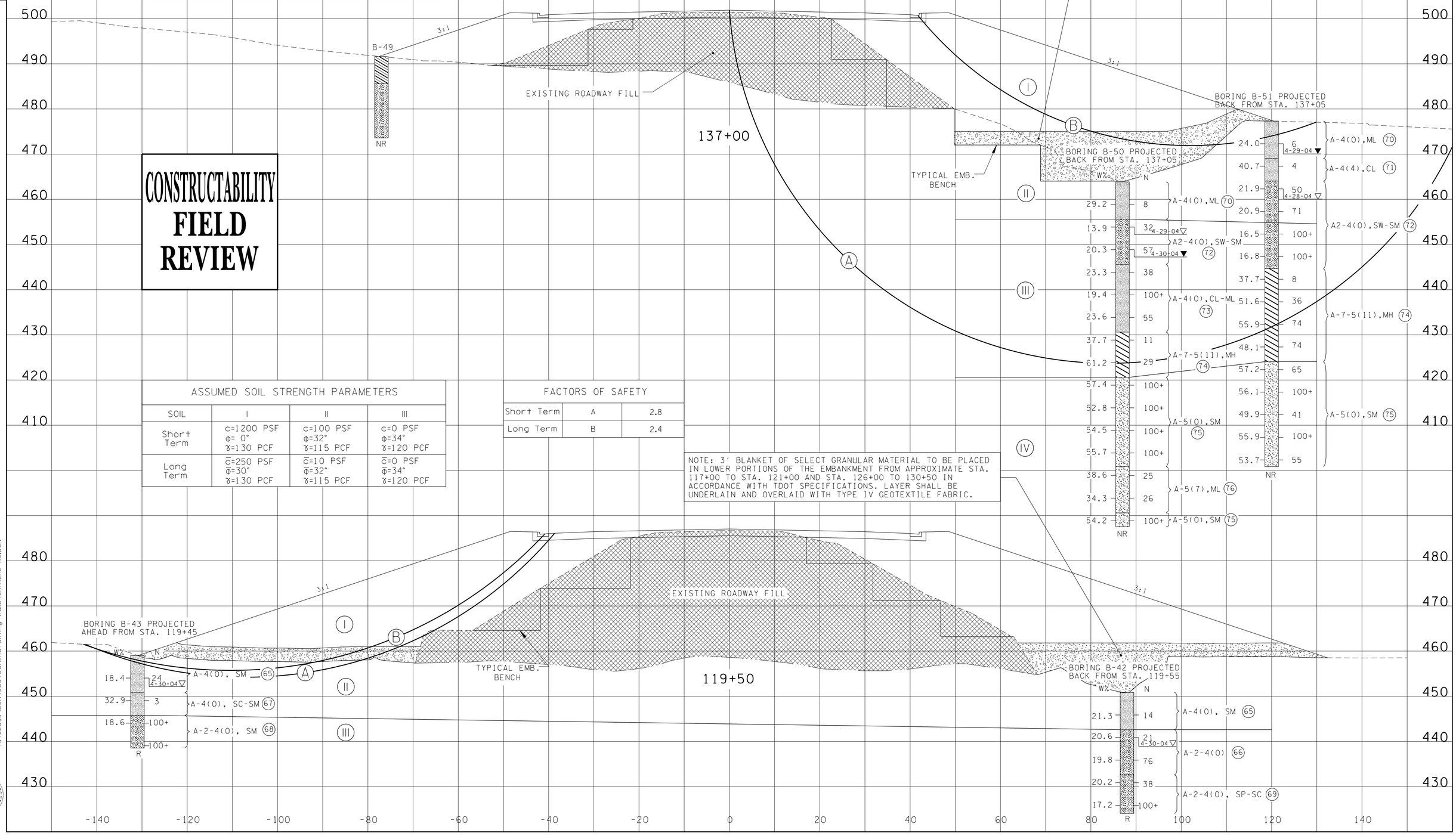
ASSUMED SOIL STRENGTH PARAMETERS

SOIL	I	II	III	IV
Short Term	c=1200 PSF Φ= 0° γ=130 PCF	c=900 PSF Φ=0° γ=120 PCF	c=1000 PSF Φ=0° γ=120 PCF	c=1400 PSF Φ=0° γ=120 PCF
Long Term	$\bar{c}$=250 PSF $\bar{\Phi}$=30° γ=130 PCF	$\bar{c}$=100 PSF $\bar{\Phi}$=30° γ=120 PCF	$\bar{c}$=100 PSF $\bar{\Phi}$=28° γ=120 PCF	$\bar{c}$=200 PSF $\bar{\Phi}$=30° γ=120 PCF

FACTORS OF SAFETY

Short Term	A	1.8
Long Term	B	2.7

NOTE: 3' BLANKET OF SELECT GRANULAR MATERIAL TO BE PLACED IN LOWER PORTIONS OF THE EMBANKMENT FROM APPROXIMATE STA. 136+50 TO STA. 140+00, IN ACCORDANCE WITH TDOT SPECIFICATIONS. LAYER SHALL BE UNDERLAIN AND OVERLAID WITH TYPE IV GEOTEXTILE FABRIC.



ASSUMED SOIL STRENGTH PARAMETERS

SOIL	I	II	III
Short Term	c=1200 PSF Φ= 0° γ=130 PCF	c=100 PSF Φ=32° γ=115 PCF	c=0 PSF Φ=34° γ=120 PCF
Long Term	$\bar{c}$=250 PSF $\bar{\Phi}$=30° γ=130 PCF	$\bar{c}$=10 PSF $\bar{\Phi}$=32° γ=115 PCF	$\bar{c}$=0 PSF $\bar{\Phi}$=34° γ=120 PCF

FACTORS OF SAFETY

Short Term	A	2.8
Long Term	B	2.4

NOTE: 3' BLANKET OF SELECT GRANULAR MATERIAL TO BE PLACED IN LOWER PORTIONS OF THE EMBANKMENT FROM APPROXIMATE STA. 117+00 TO STA. 121+00 AND STA. 126+00 TO 130+50 IN ACCORDANCE WITH TDOT SPECIFICATIONS. LAYER SHALL BE UNDERLAIN AND OVERLAID WITH TYPE IV GEOTEXTILE FABRIC.

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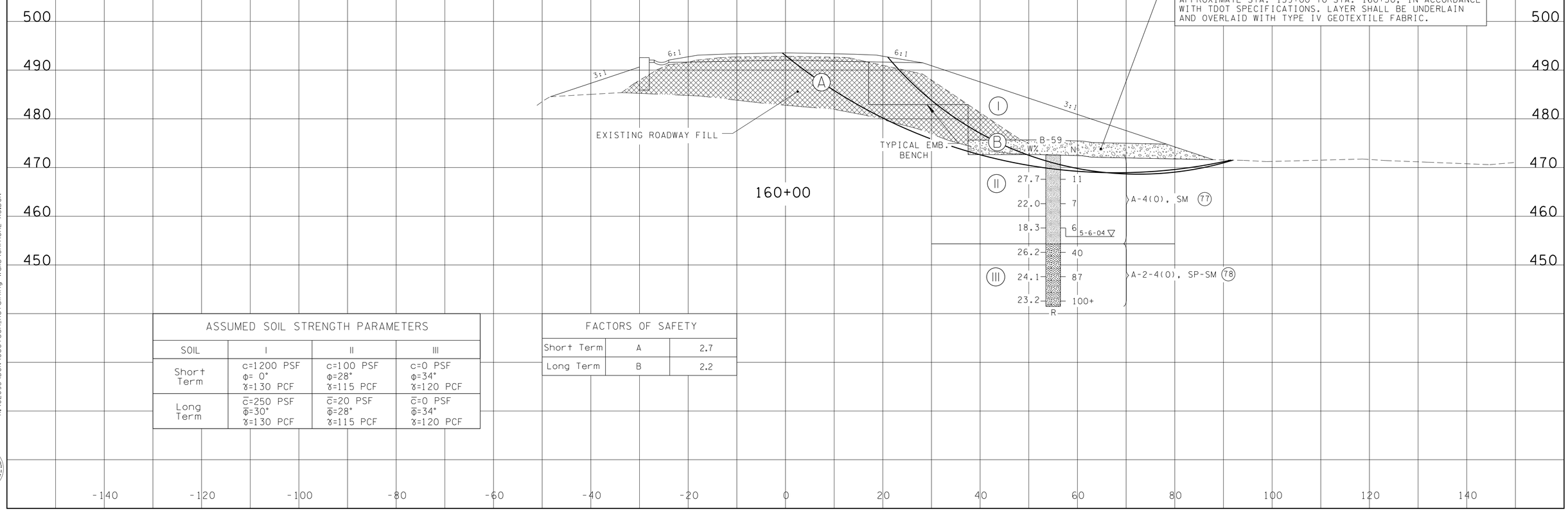
Survey & Design Division

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31X

CONSTRUCTABILITY FIELD REVIEW

NOTE: 3' BLANKET OF SELECT GRANULAR MATERIAL TO BE PLACED IN LOWER PORTIONS OF THE EMBANKMENT FROM APPROXIMATE STA. 159+00 TO STA. 160+50, IN ACCORDANCE WITH TDOT SPECIFICATIONS. LAYER SHALL BE UNDERLAIN AND OVERLAID WITH TYPE IV GEOTEXTILE FABRIC.



ASSUMED SOIL STRENGTH PARAMETERS			
SOIL	I	II	III
Short Term	c=1200 PSF Φ= 0° γ=130 PCF	c=100 PSF Φ=28° γ=115 PCF	c=0 PSF Φ=34° γ=120 PCF
Long Term	$\bar{c}$=250 PSF $\bar{\Phi}$=30° γ=130 PCF	$\bar{c}$=20 PSF $\bar{\Phi}$=28° γ=115 PCF	$\bar{c}$=0 PSF $\bar{\Phi}$=34° γ=120 PCF

FACTORS OF SAFETY		
Short Term	A	2.7
Long Term	B	2.2

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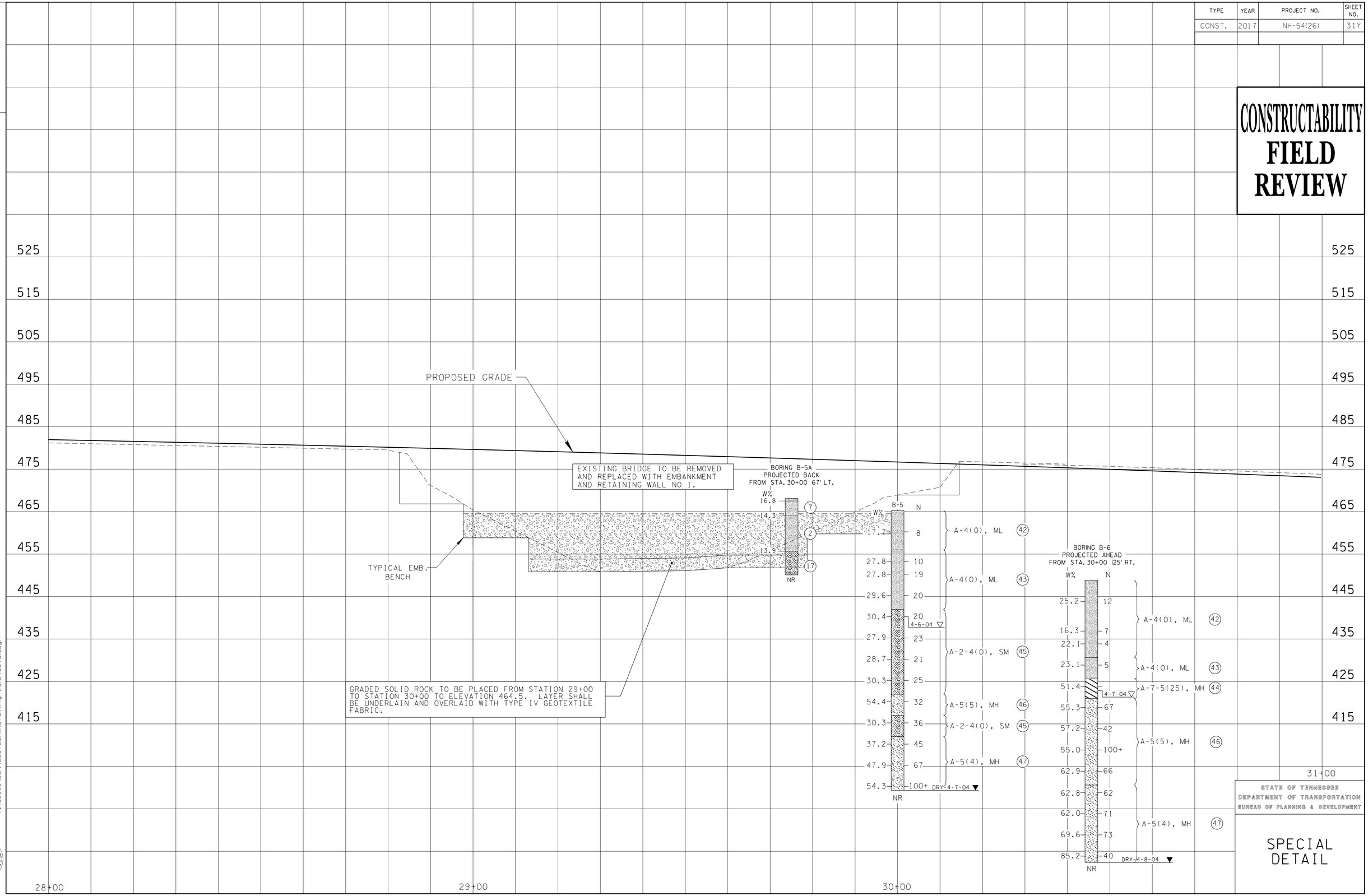
Survey & Design Division

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31Y

CONSTRUCTABILITY FIELD REVIEW



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

SPECIAL DETAIL

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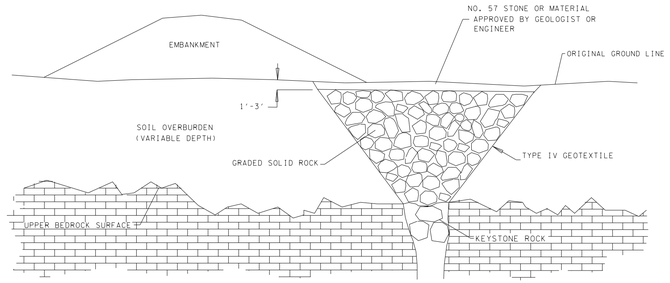
Survey & Design Division

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-54(26)	31Z



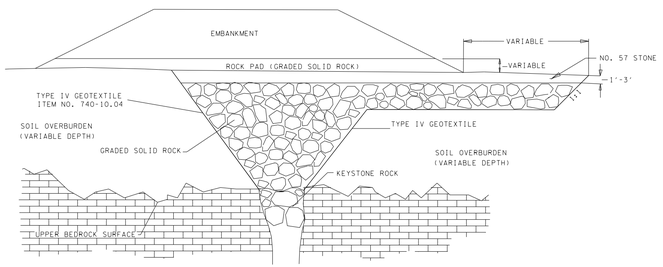
SINKHOLE TREATMENT 1

SINKHOLE TREATMENT 1, ACTIVE

NOTE: AFTER EXCAVATION IS COMPLETE AND ROCK OPENING IS EXPOSED, THE SITE AND TREATMENT METHOD SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS. THE TOP 1-3 FT. OF MATERIAL SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS.

SEQUENCE OF CONSTRUCTION:

1. EXCAVATE SINKHOLE TO DEFINED OPENING IN BEDROCK MAKING SURE TO REMOVE ALL SOIL AND DEBRIS.
2. FIT THE OPENING WITH KEYSTONE ROCK, WHICH SHALL BE OF SUFFICIENT SIZE TO LOCK IN PLACE WITHOUT CREATING AN AIRBLOCK TO SUBSURFACE DRAINAGE.
3. PLACE THE TYPE IV GEOTEXTILE FABRIC ON EXCAVATED SLOPES AND BASE OF SINKHOLE.
4. BACKFILL TO A MAXIMUM OF 1 FT. OF THE SPECIFIED GRADE WITH GRADED SOLID ROCK (CLASSIFICATION 203.02, BORROW EXCAVATION).
5. BACKFILL TO GRADE WITH A MINIMUM OF 1 FT. OF NO.57 STONE ON TOP OF THE GRADED SOLID ROCK AND TYPE IV GEOTEXTILE.



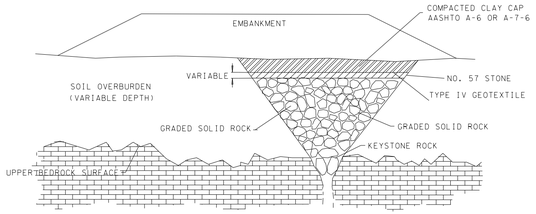
SINKHOLE TREATMENT 1A

SINKHOLE TREATMENT 1A ACTIVE

NOTE: AFTER EXCAVATION IS COMPLETE AND ROCK OPENING IS EXPOSED, THE SITE AND TREATMENT METHOD SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS. THE TOP 1-3 FT. MATERIAL SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS.

SEQUENCE OF CONSTRUCTION:

1. EXCAVATE SINKHOLE TO DEFINED OPENING IN BEDROCK AND EXCAVATE TONGUE DOWN TO THE DEPTH SHOWN MAKING SURE TO REMOVE ALL SOIL AND DEBRIS FROM THESE EXCAVATIONS.
2. FIT THE OPENING WITH KEYSTONE ROCK, WHICH SHALL BE OF SUFFICIENT SIZE TO LOCK IN PLACE WITHOUT CREATING AN AIRBLOCK TO SUBSURFACE DRAINAGE.
3. PLACE THE TYPE IV GEOTEXTILE FABRIC.
4. BACKFILL TO WITHIN 1.5-3 FT.OF THE SPECIFIED GRADE WITH GRADED SOLID ROCK.
5. PLACE THE TYPE IV GEOTEXTILE ON TOP OF GRADED SOLID ROCK.
6. BACKFILL TO GRADE WITH NO. 57 STONE.



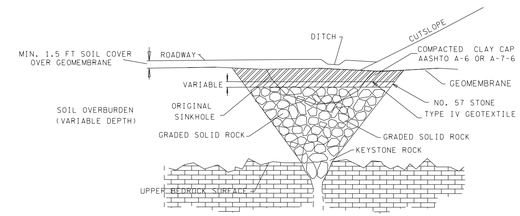
SINKHOLE TREATMENT 2

SINKHOLE TREATMENT 2 AND 2A , INACTIVE

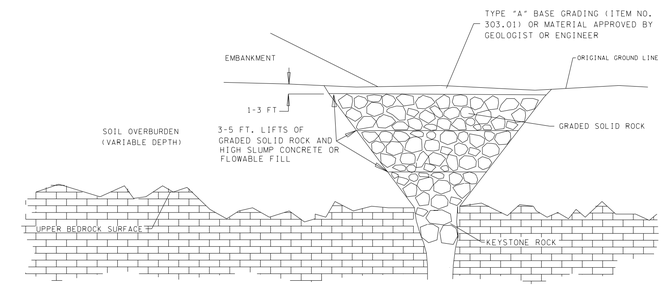
NOTE: AFTER EXCAVATION IS COMPLETE AND ROCK OPENING IS EXPOSED, THE SITE AND TREATMENT METHOD SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS. ANY CHANGE IN THE NO. 57 STONE FILL OR THE CLAY CAP SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS.

SEQUENCE OF CONSTRUCTION:

1. EXCAVATE SINKHOLE TO DEFINED OPENING IN BEDROCK MAKING SURE TO REMOVE ALL SOIL AND DEBRIS.
2. FIT THE OPENING WITH KEYSTONE ROCK, WHICH SHALL BE OF SUFFICIENT SIZE TO LOCK IN PLACE WITHOUT CREATING AN AIRBLOCK TO SUBSURFACE DRAINAGE.
3. BACKFILL WITH GRADED SOLID ROCK (CLASSIFICATION 203.02, BORROW EXCAVATION) UP TO SPECIFIED GRADE.
4. PLACE TYPE IV GEOTEXTILE ON TOP OF GRADAED SOLID ROCK. PLACE NO. 57 STONE ON TOP OF GEOTEXTILE.
5. CONSTRUCT COMPACT CLAY CAP. SOIL SHOULD BE OF TYPE AASHTO A-6 OR A-7-6.
6. PLACE GEOMEMBRANE ON TOP OF SOIL CAP BEFORE CONSTRUCTION OF ANY OVERLYING STRUCTURES OR EMBANKMENTS. THERE SHOULD BE A MINIMUM OF 1.5 FT. OF SOIL PLACED OVER THE MEMBRANE.
7. DITCH SHOULD BE PAVED OR LINED WITH A GEOMEMBRANE.



SINKHOLE TREATMENT 2A



SINKHOLE TREATMENT 4

SINKHOLE TREATMENT 4,INACTIVE

NOTE: AFTER EXCAVATION IS COMPLETE AND ROCK OPENING IS EXPOSED, THE SITE AND TREATMENT METHOD SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS. ANY CHANGE IN THE THE NO.57 STONE FILL SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS.

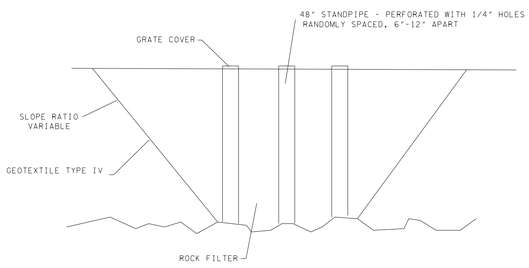
SEQUENCE OF CONSTRUCTION

1. EXCAVATE SINKHOLE TO DEFINED OPENING IN BEDROCK AS DEFINED BY THE ENGINEER OR GEOLOGIST MAKING SURE TO REMOVE ALL SOIL DEBRIS.
2. FIT THE OPENING WITH KEYSTONE ROCK, WHICH SHALL BE OF SUFFICIENT SIZE TO LOCK IN PLACE WITHOUT CREATING AN AIRBLOCK TO SUBSURFACE DRAINAGE.
3. ALTERNATE LAYERS OF GRADED SOLID ROCK (CLASSIFICATION 203.02, BORROW EXCAVATION) (3-5 FT. IN DEPTH) AND HIGH SLUMP CONCRETE (OR FLOWABLE FILL).
   HIGH SLUMP CONCRETE SHALL BE CONCRETE WITH A SLUMP OF 7-9"

   HIGH SLUMP CONCRETE OR FLOWABLE FILL SHALL BE APPLIED AFTER A LAYER OF GRADED SOLID ROCK UNTIL THE CONCRETE (OR FLOWABLE FILL) JUST COVERS THE GRADED ROCK LAYER. THE NEXT LAYER OF GRADED SOLID ROCK SHALL BE PLACED IMMEDIATELY AFTER THE PLACEMENT OF THE CONCRETE (OR FLOWABLE FILL). THE PURPOSE OF THIS IS TO INTERMIX THE MATERIALS. THE WORK SHALL NOT BE INTERRUPTED AFTER THE PLACEMENT OF CONCRETE (OR FLOWABLE FILL) EXCEPT FOR THE TOP LAYER. IF WORK CANNOT BE FINISHED IN A SPECIFIED INTERVAL, WORK MAY BE STOPPED ONLY AFTER A COMPLETE LAYER OF GRADED SOLID ROCK HAS BEEN PLACED.
4. AFTER THE FINAL LAYER OF CONCRETE (OR FLOWABLE FILL) HAS BEEN SET, BACKFILL TO GRADE WITH TYPE "A" BASE GRADING (ITEM NO. 303.01) OR OTHER MATERIAL APPROVED BY THE ENGINEER OR GEOLOGIST.

SPECIFICATIONS FOR GRADED SOLID ROCK

BORROW EXCAVATION (GRADED SOLID ROCK) SHALL CONSIST OF THE REMOVAL AND SATISFACTORY PLACEMENT OF SOUND, NON-DEGRADABLE ROCK WITH A MAXIMUM SIZE OF 1 METER (3 FEET). AT LEAST 50 PERCENT OF THE SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 300 MILLIMETERS (1 FOOT) AND 1 METER (3 FEET) IN DIAMETER AND NO GREATER THAN 10 PERCENT SHALL BE LESS THAN 50 MILLIMETERS (2 INCHES) IN DIAMETER. THE MATERIAL SHALL BE ROUGHLY EQUI-DIMENSIONAL IN SHAPE. THIN, SLABBY MATERIAL WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL BE REQUIRED TO PROCESS THE MATERIAL WITH ACCEPTABLE MECHANICAL SCREENING PROCESS THAT PRODUCES THE REQUIRED GRADATION. WHEN THE MATERIAL IS SUBJECTED TO FIVE ALTERATIONS OF THE SODIOM SULFATE SOUNDNESS TEST (AASHTO T 104), THE WEIGHTED PERCENTAGE OF LOSS SHALL BE NOT MORE THAN 12. THE MATERIAL SHALL BE APPROVED BY THE ENGINEER BEFORE USE.



SINKHOLE TREATMENT 3

SINKHOLE TREATMENT 3, ACTIVE

NOTE: AFTER EXCAVATION IS COMPLETE AND ROCK IS EXPOSED, THE SITE AND TREATMENT METHOD SHALL BE APPROVED BY A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEERING SECTION OF THE DIVISION OF MATERIALS AND TESTS.

SEQUENCE OF CONSTRUCTION

1. EXCAVATE SOIL DOWN TO BEDROCK TO LIMITS SPECIFIED BY THE ENGINEER OR GEOLOGIST.
2. LOCATE ALL OPENINGS WITHIN THE PITS, REMOVE ALL LOOSENED MATERIAL. ALL EXCAVATED MATERIALS SHALL BE REMOVED FROM THE BASIN.
3. INSTALL 48" DIAMETER VERTICAL STANDPIPES OVER THE LOCATED OPENINGS. THESE PIPES SHOULD BE PERFOFATED FOR AT LEAST THE LOWER 5 FT. WITHIN 1/4" HOLES SPACES 6-12" APART.
4. PLACE TYPE IV GEOTEXTILE FABRIC AS SHOWN OR AS DIRECTED BY THE ENGINEER OR GEOLOGIST TO PREVENT THE LATERAL INFLOW OF FINES.
5. BACKFILL WITH A ROCK FILTER TO A HEIGHT OF 3.5" BELOW THE TOP OF THE STANDPIPE.

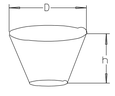
THE ROCK FILTER MATERIAL SHALL CONSIST OF A MIXTURE OF LIMESTONE SHOT ROCK AND CRUSHED STONE TO MEET THE FOLLOWING GRADATION:

SIZE RANGE (ALONG ITS MAXIMUM DIMENSION)	VOLUME
2'-1'	60-40%
1'-6"	40-20%
6"-2"	20-10%
LESS THAN 2"	5-0%

6. THE ROCK FILTER MATERIAL SHALL BE PLACED WITH A CLAMSHELL. NO END DUMPING WILL BE PERMITTED.

EQUATION FOR ESTIMATING SINKHOLE VOLUME, WHERE THE SIDES OF THE SINKHOLE ARE AT 1:1 SLOPES.

$$\text{VOL. } 1{:}1 \approx 0.13D^3 - (0.5D - h)^3$$



CONSTRUCTABILITY FIELD REVIEW

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

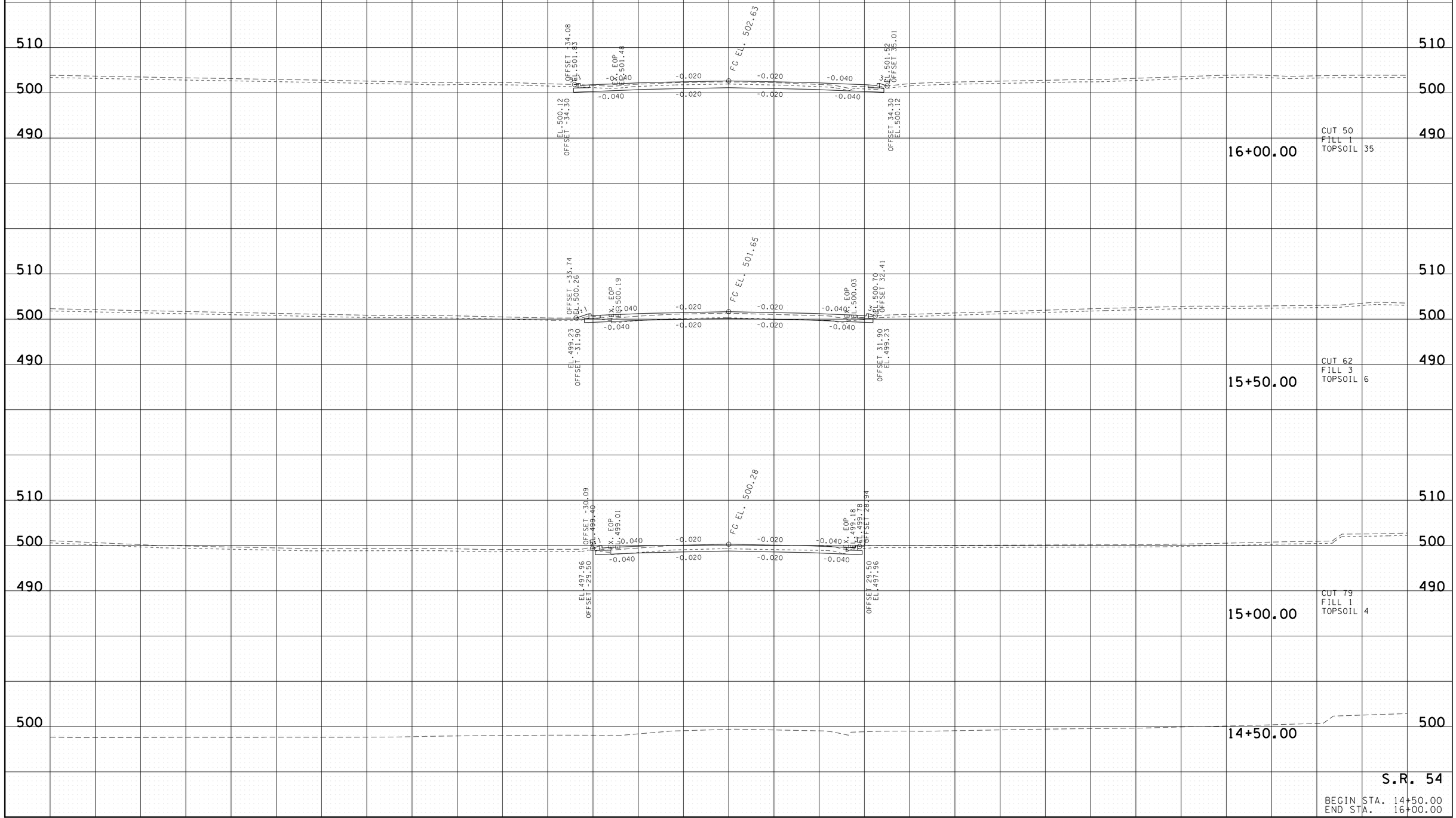
SINKHOLE STANDARD DRAWINGS

SINKHOLE TREATMENT ILLUSTRATIONS

1,1A,2,2A,3,AND 4

sihorev 2004

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	25
CONST.	2017	NH-54(26)	32



S.R. 54

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

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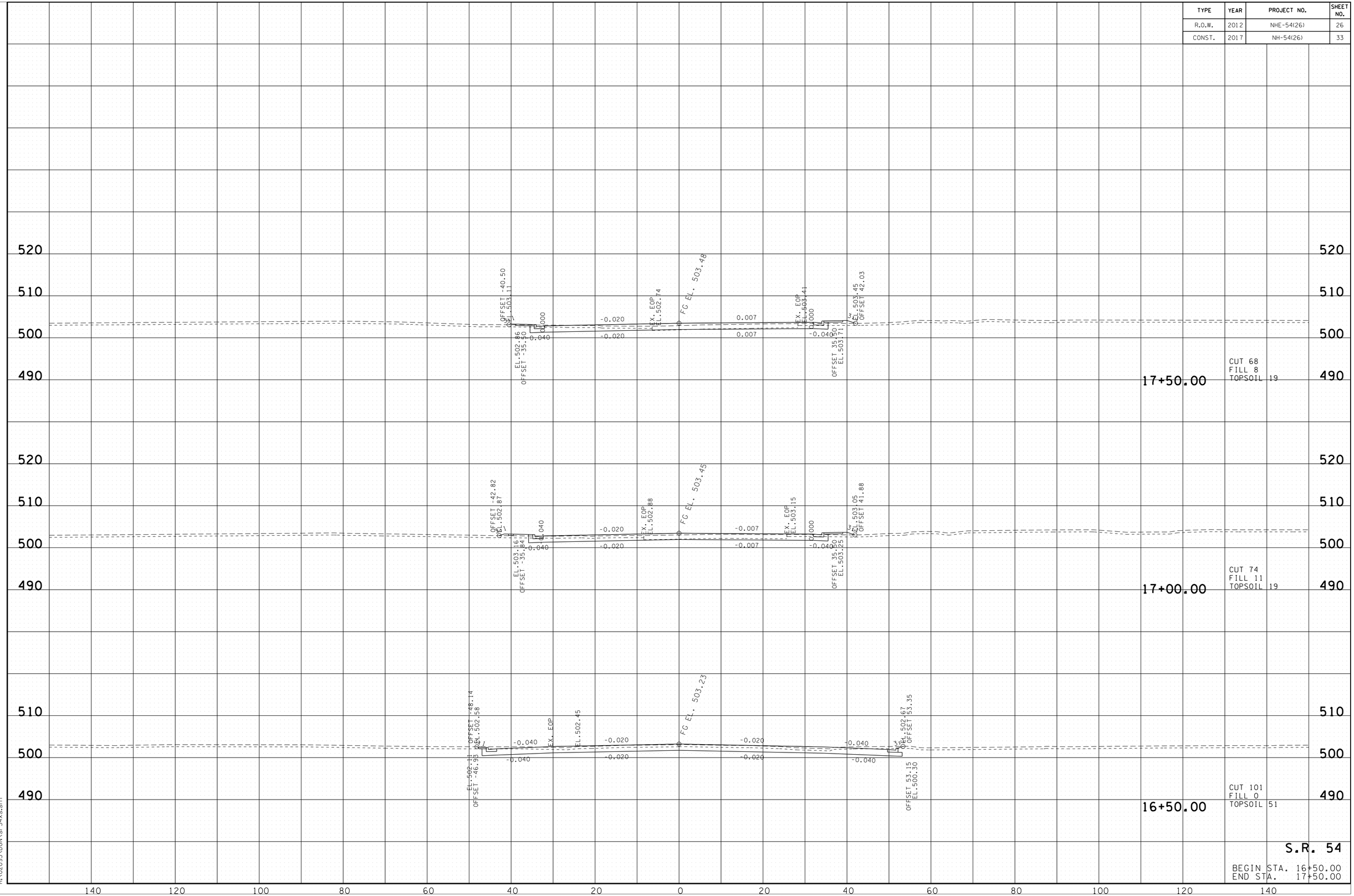
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	26
CONST.	2017	NH-54(26)	33



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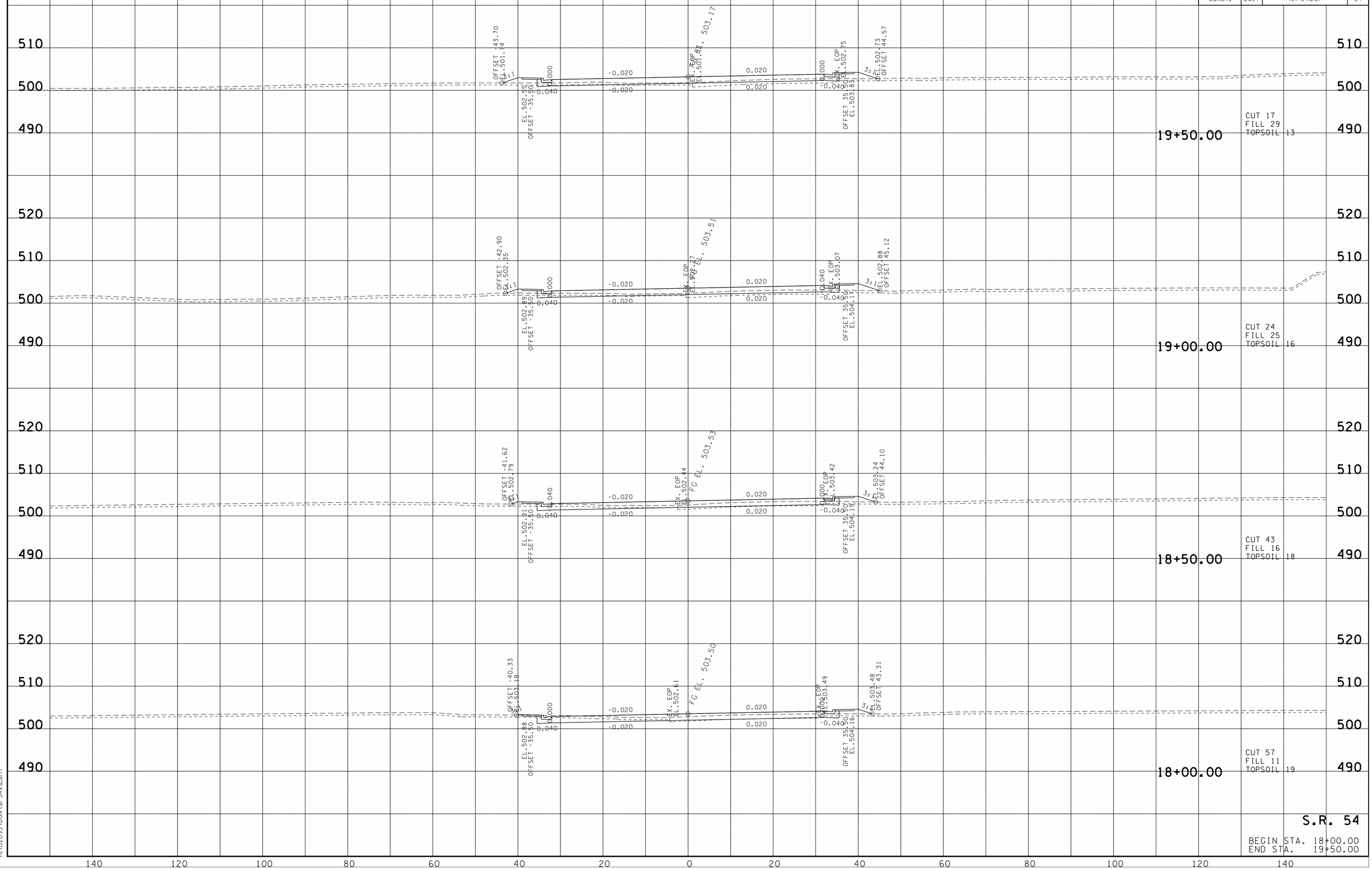
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	27
CONST.	2017	NH-54(26)	34



S.R. 54

BEGIN STA. 18+00.00
END STA. 19+50.00

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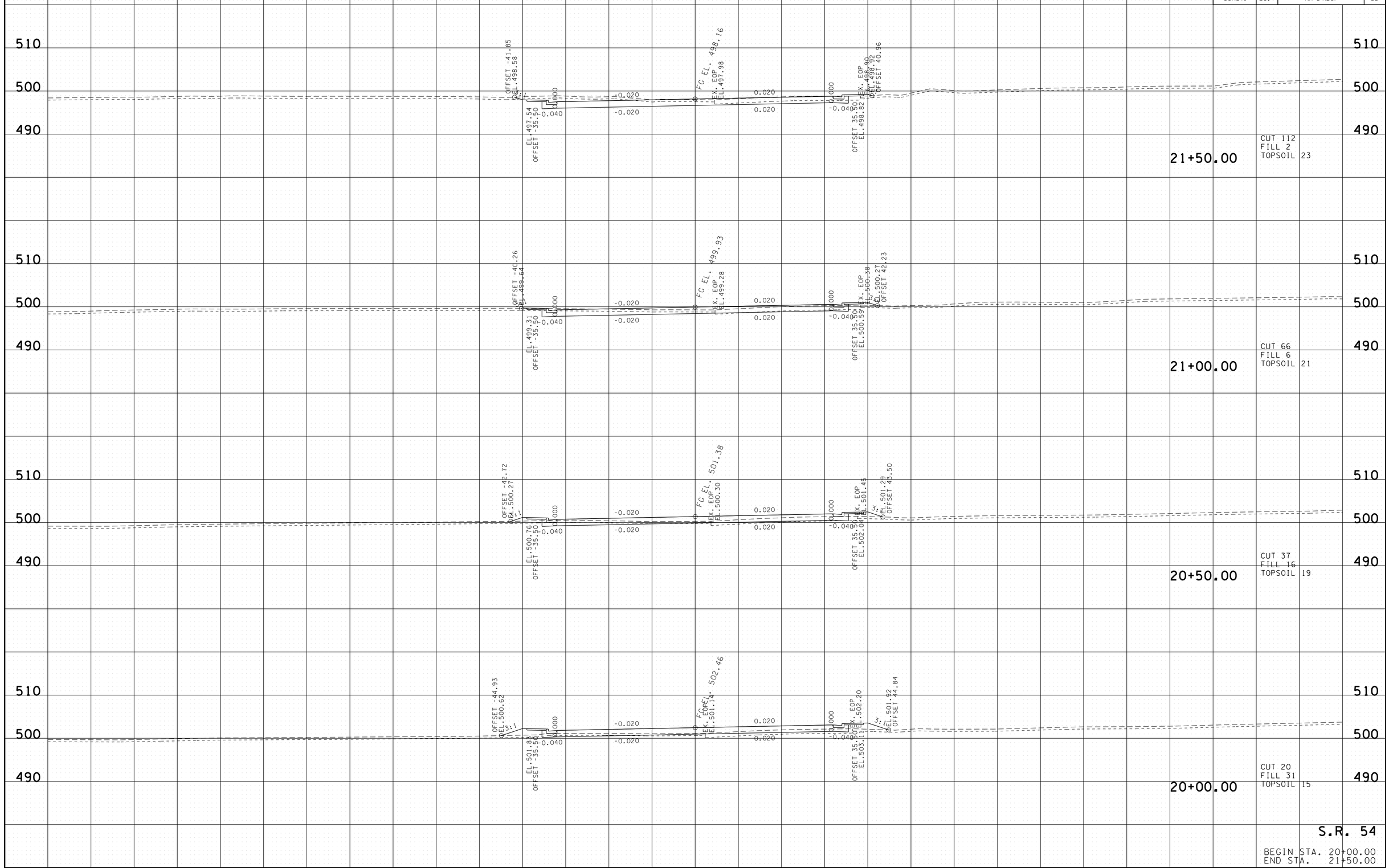
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	28
CONST.	2017	NH-54(26)	35



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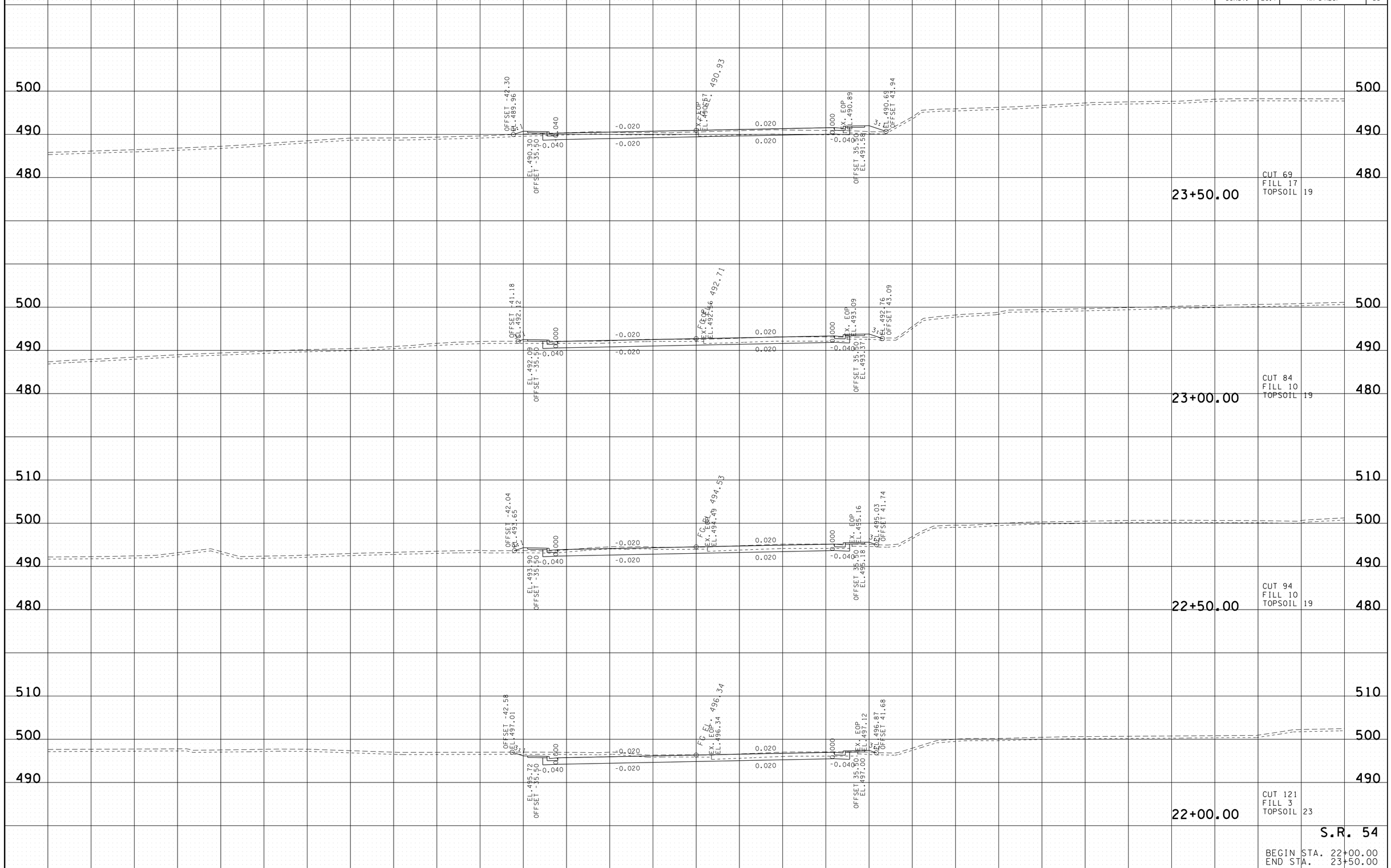
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	29
CONST.	2017	NH-54(26)	36



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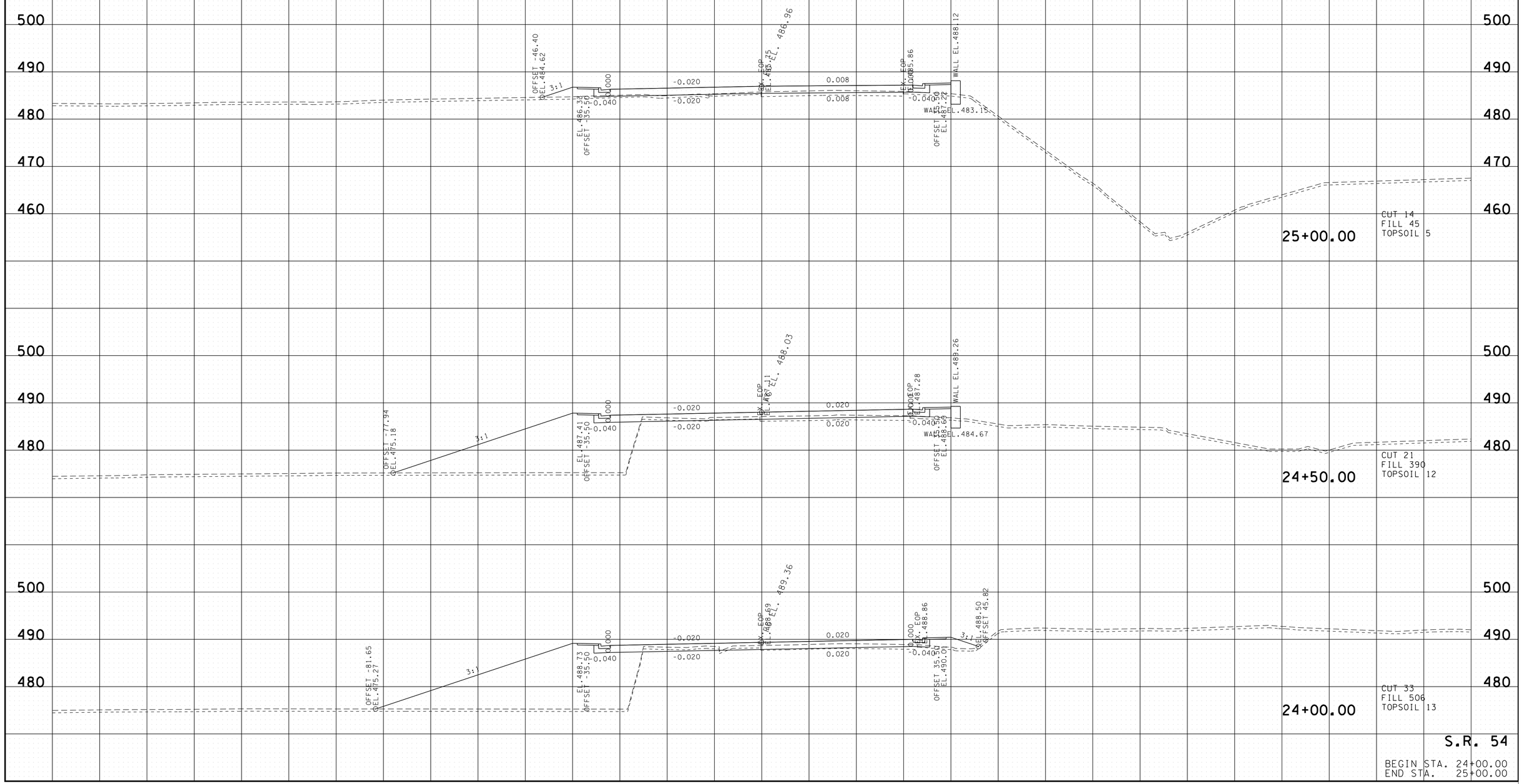
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	30
CONST.	2017	NH-54(26)	37

REV 07-10-12: ADDED RETAINING WALL RT.
& UPDATED EARTHWORK STA. 24+50 TO STA. 30+25



S.R. 54

BEGIN STA. 24+00.00
END STA. 25+00.00

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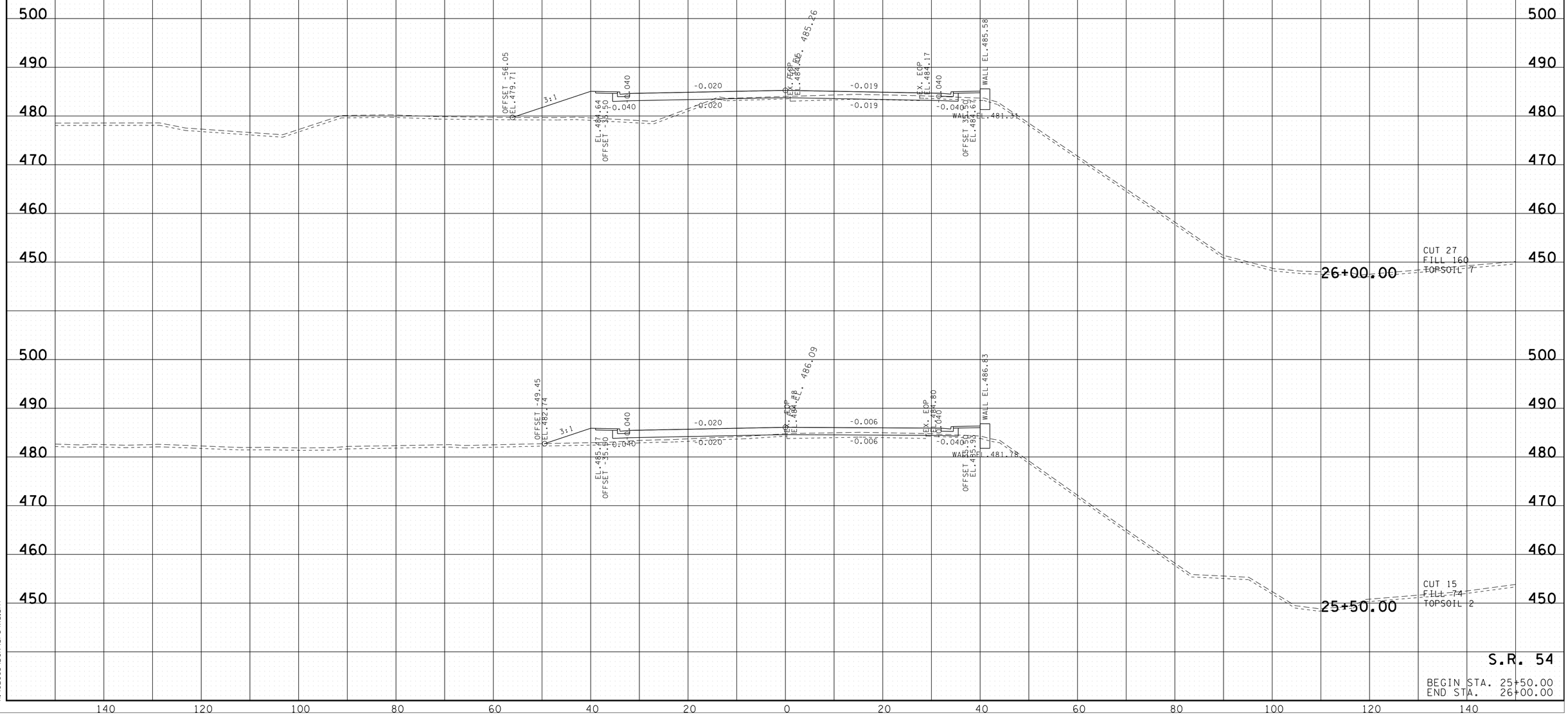
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	31
CONST.	2017	NH-54(26)	38

REV 07-10-12: ADDED RETAINING WALL RT.
& UPDATED EARTHWORK STA. 24+50 TO STA. 30+25



S.R. 54

BEGIN STA. 25+50.00
END STA. 26+00.00

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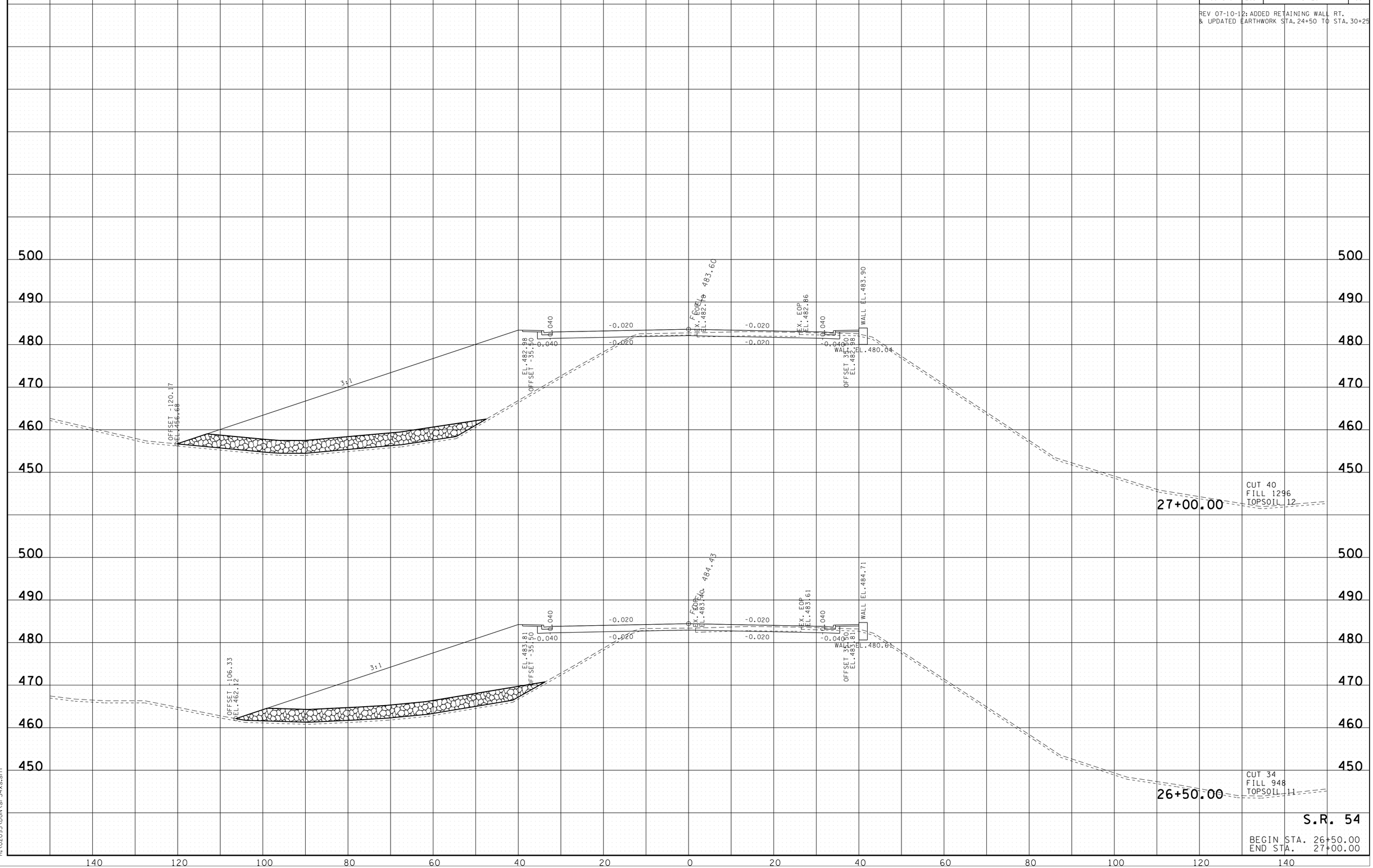
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	32
CONST.	2017	NH-54(26)	39

REV 07-10-12: ADDED RETAINING WALL RT.
& UPDATED EARTHWORK STA. 24+50 TO STA. 30+25



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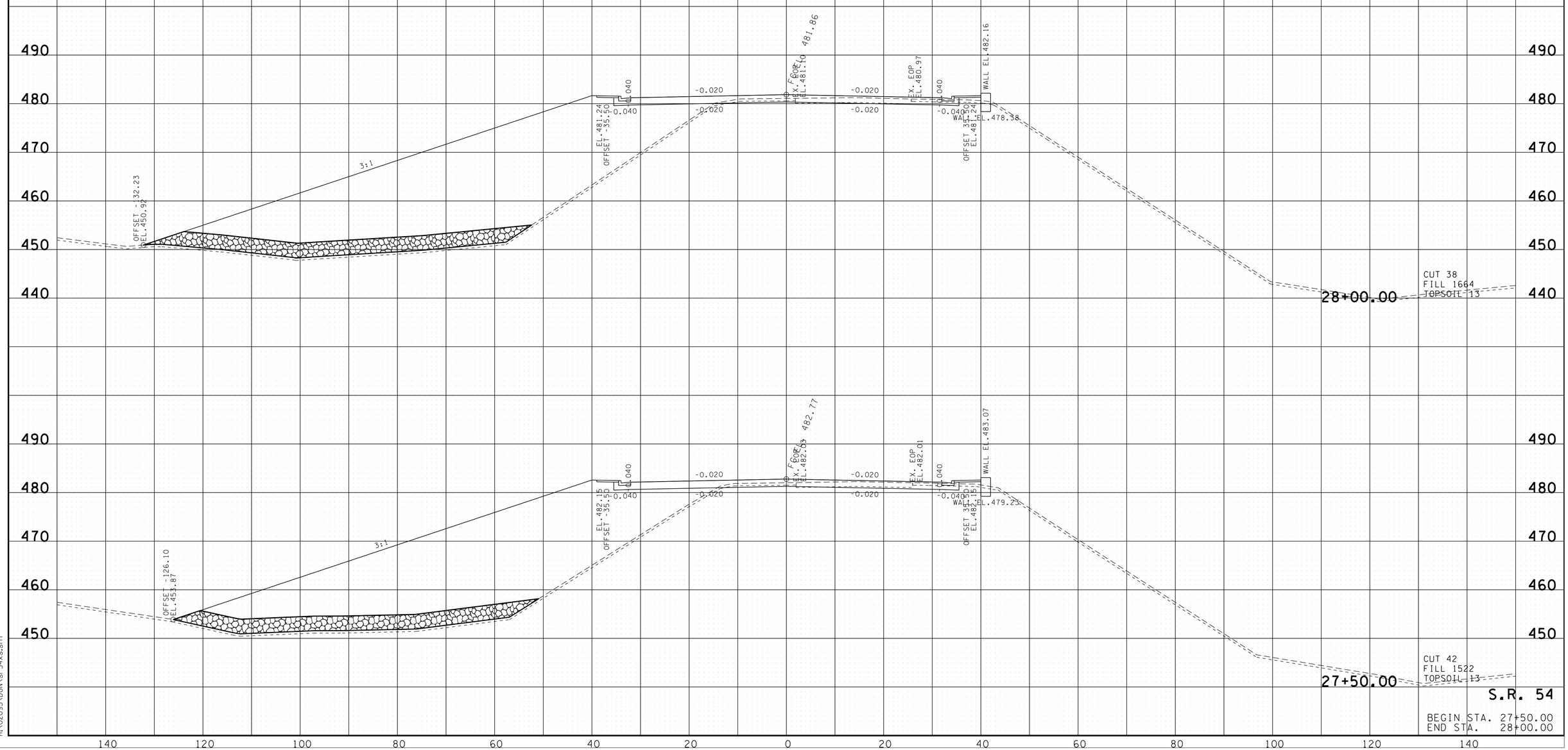
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	33
CONST.	2017	NH-54(26)	40

REV 07-10-12: ADDED RETAINING WALL RT.
& UPDATED EARTHWORK STA. 24+50 TO STA. 30+25



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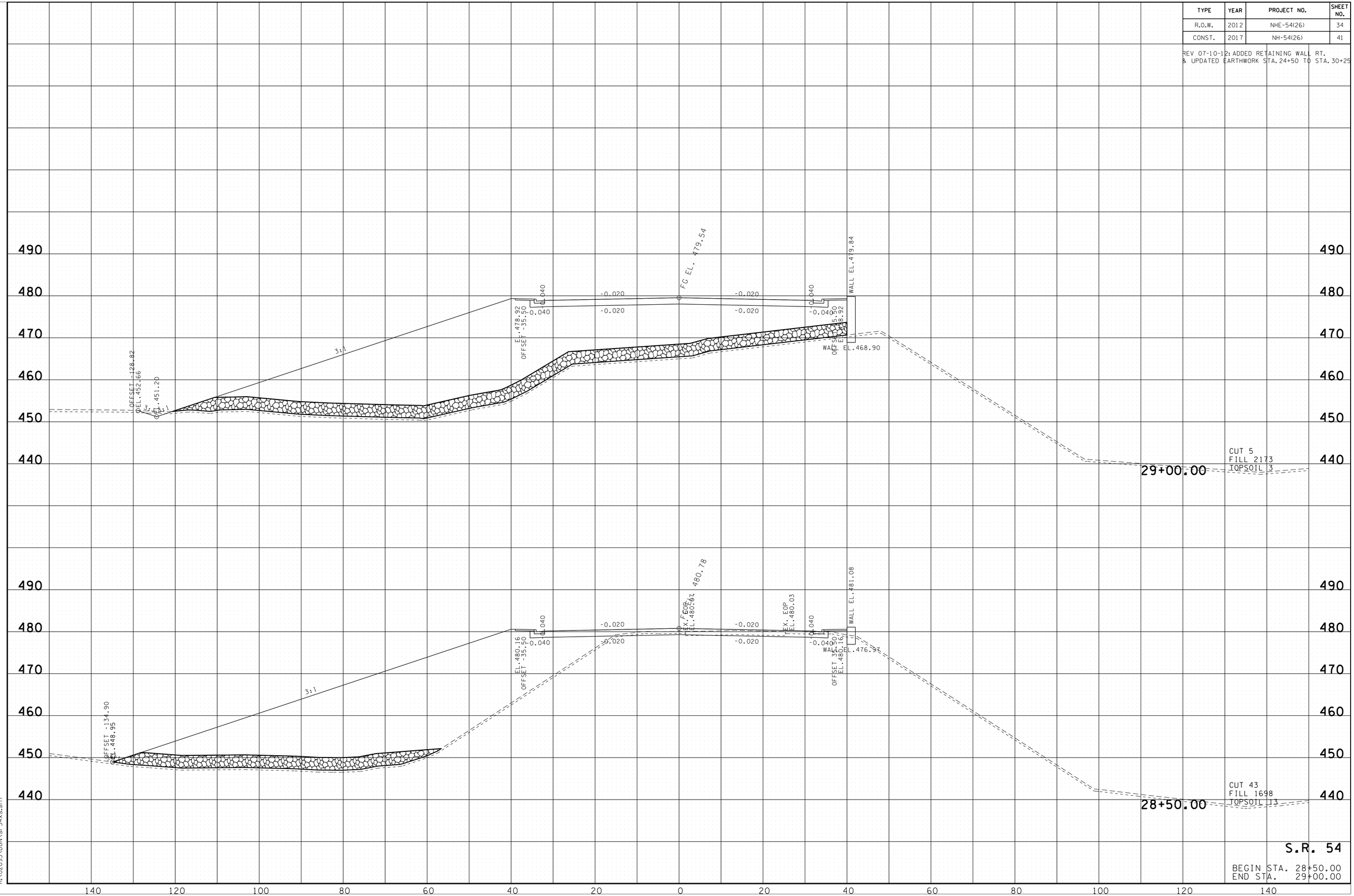
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	34
CONST.	2017	NH-54(26)	41

REV 07-10-12: ADDED RETAINING WALL RT.
& UPDATED EARTHWORK STA. 24+50 TO STA. 30+25



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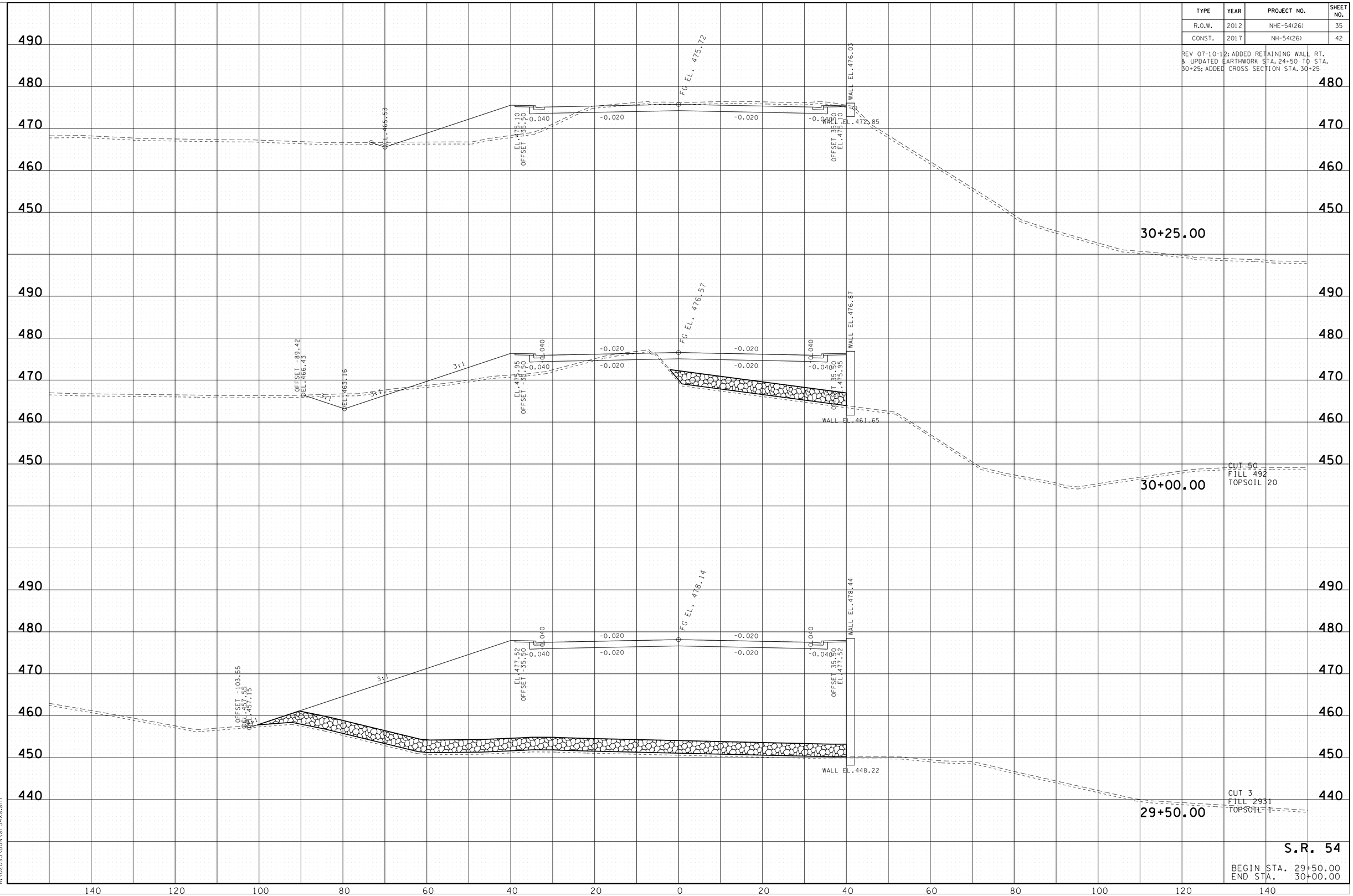
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	35
CONST.	2017	NH-54(26)	42

REV 07-10-12: ADDED RETAINING WALL RT. & UPDATED EARTHWORK STA. 24+50 TO STA. 30+25; ADDED CROSS SECTION STA. 30+25



S.R. 54

BEGIN STA. 29+50.00
END STA. 30+00.00

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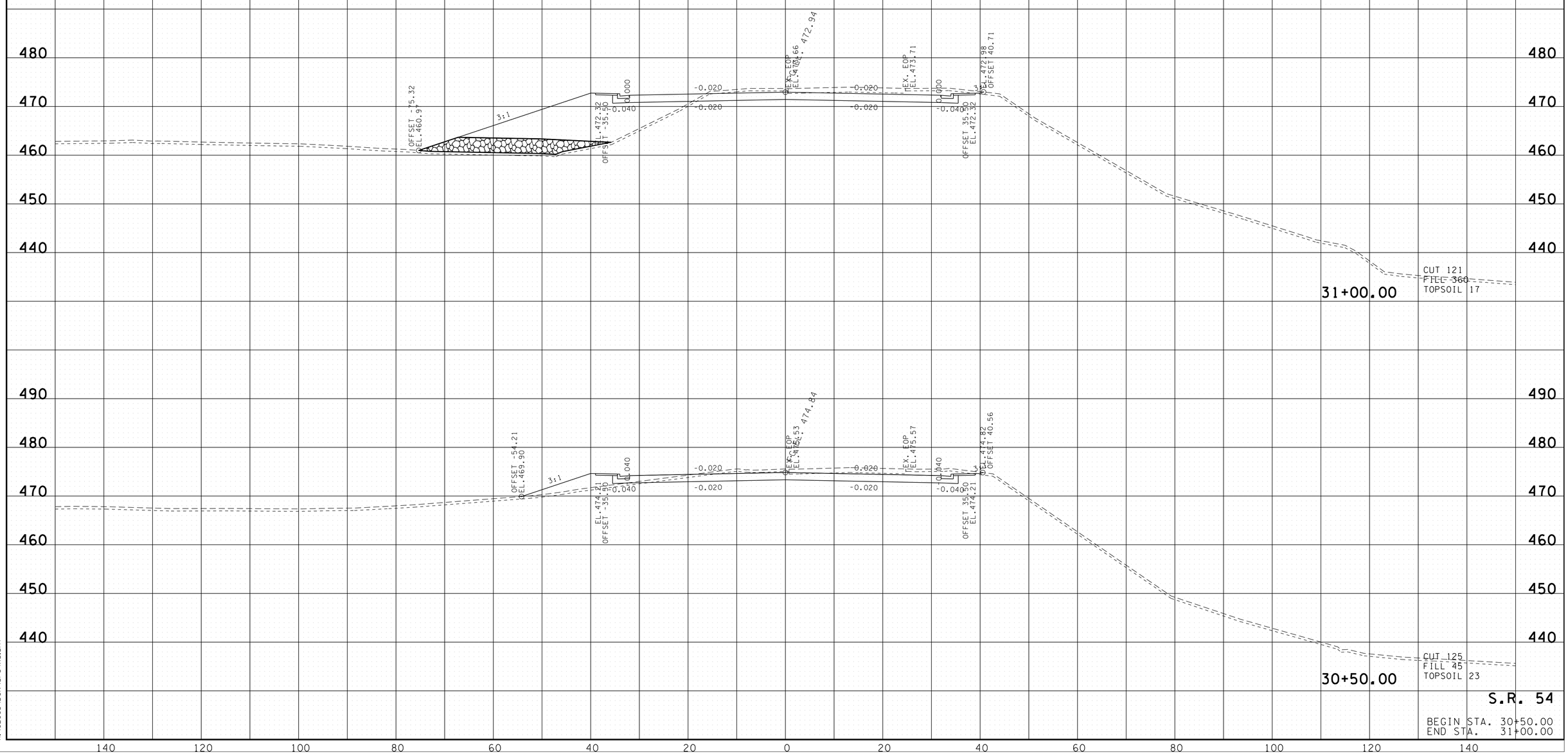
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	36
CONST.	2017	NH-54(26)	43



S.R. 54

BEGIN STA. 30+50.00
END STA. 31+00.00

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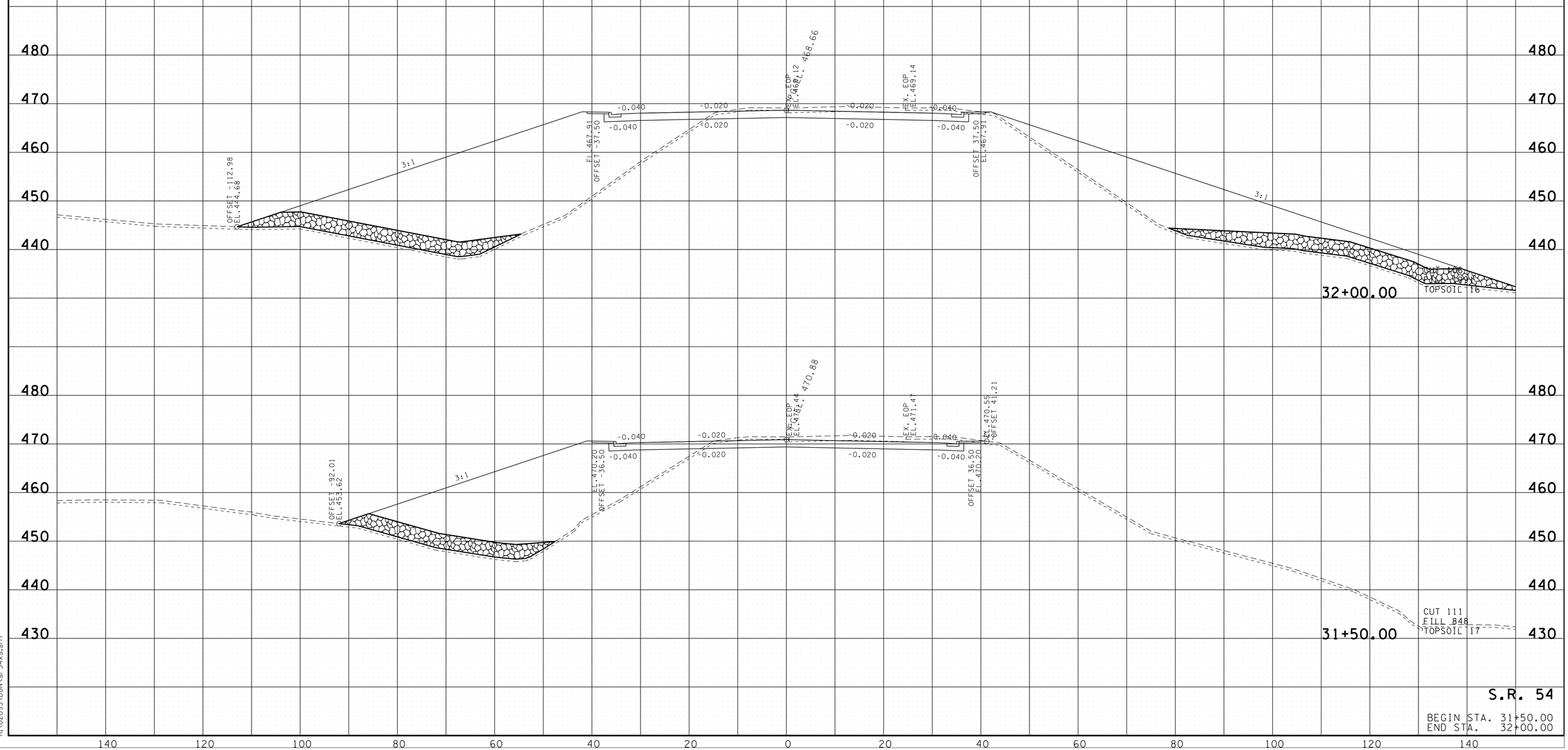
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	37
CONST.	2017	NH-54(26)	44



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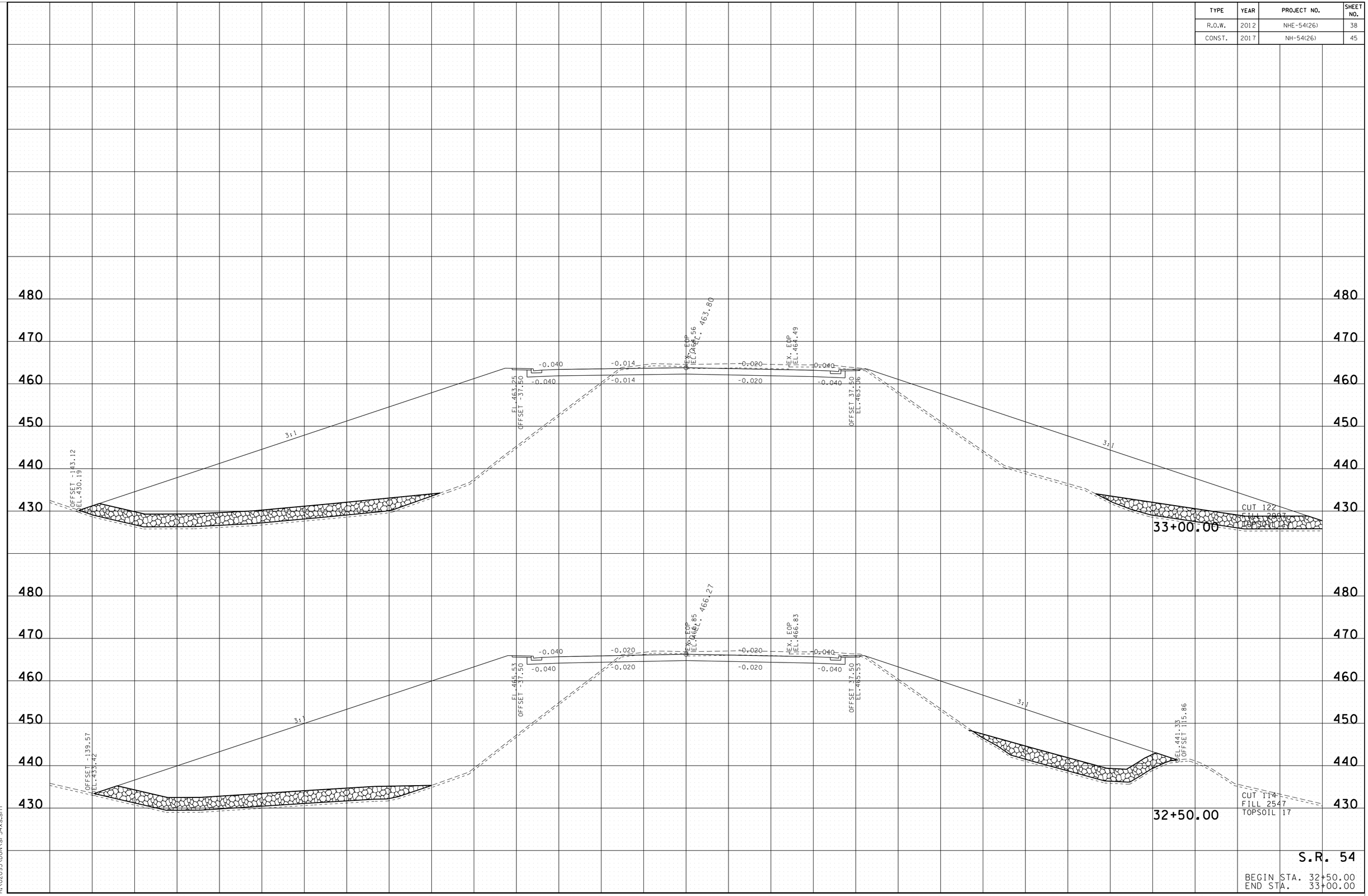
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	38
CONST.	2017	NH-54(26)	45



S.R. 54

BEGIN STA. 32+50.00
END STA. 33+00.00

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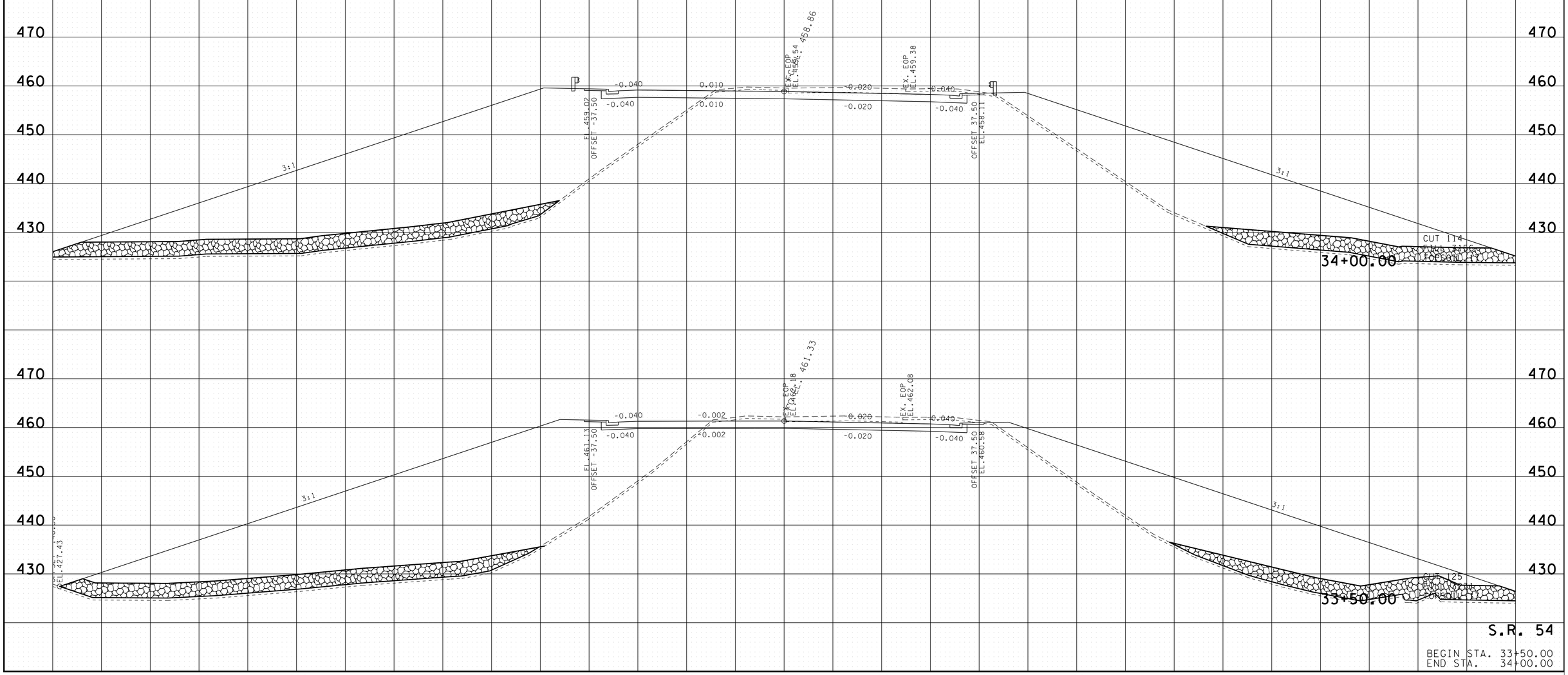
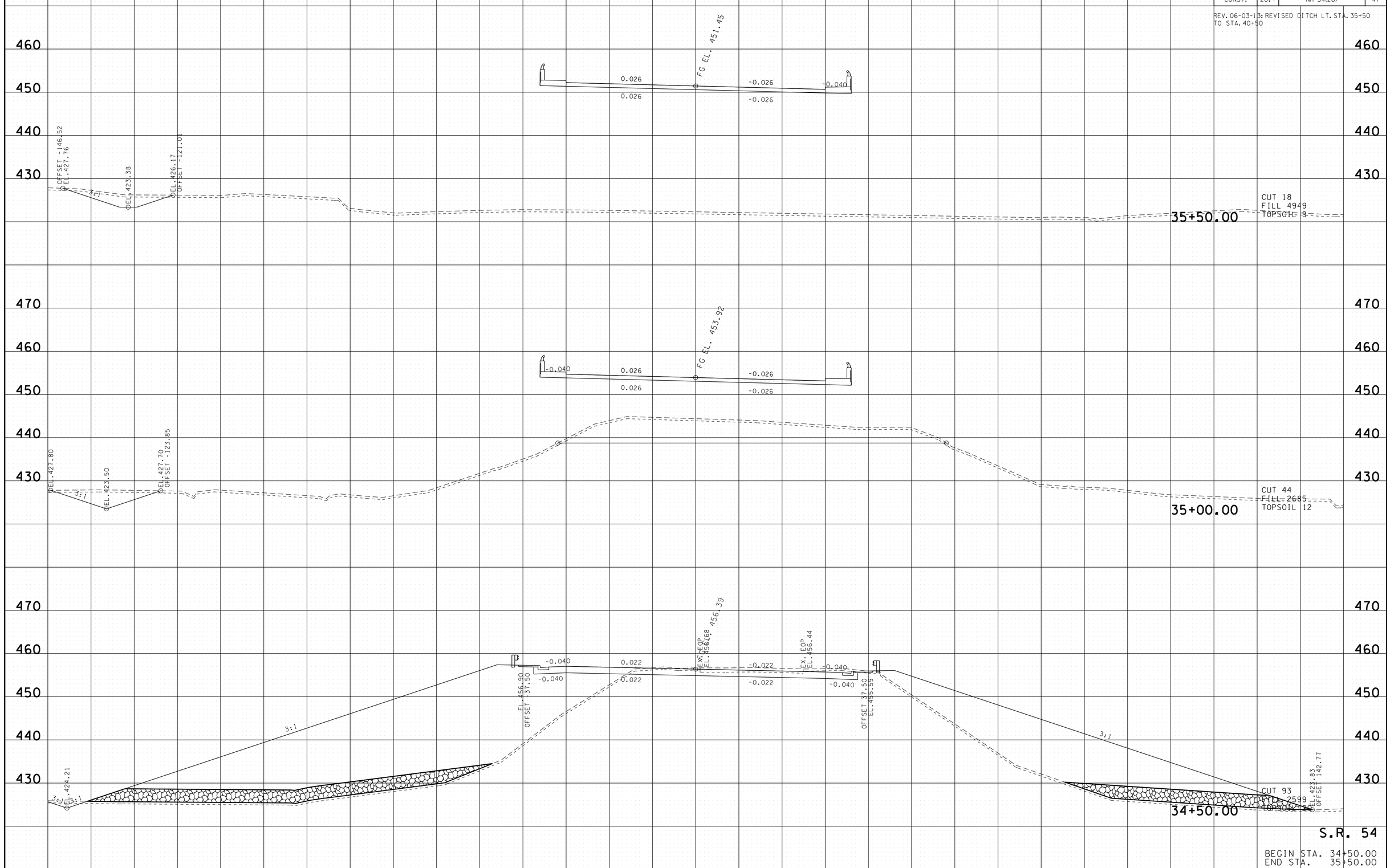
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	39
CONST.	2017	NH-54(26)	46



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	40
CONST.	2017	NH-54(26)	47

REV. 06-03-13: REVISED DITCH LT. STA. 35+50 TO STA. 40+50



S.R. 54

BEGIN STA. 34+50.00
END STA. 35+50.00

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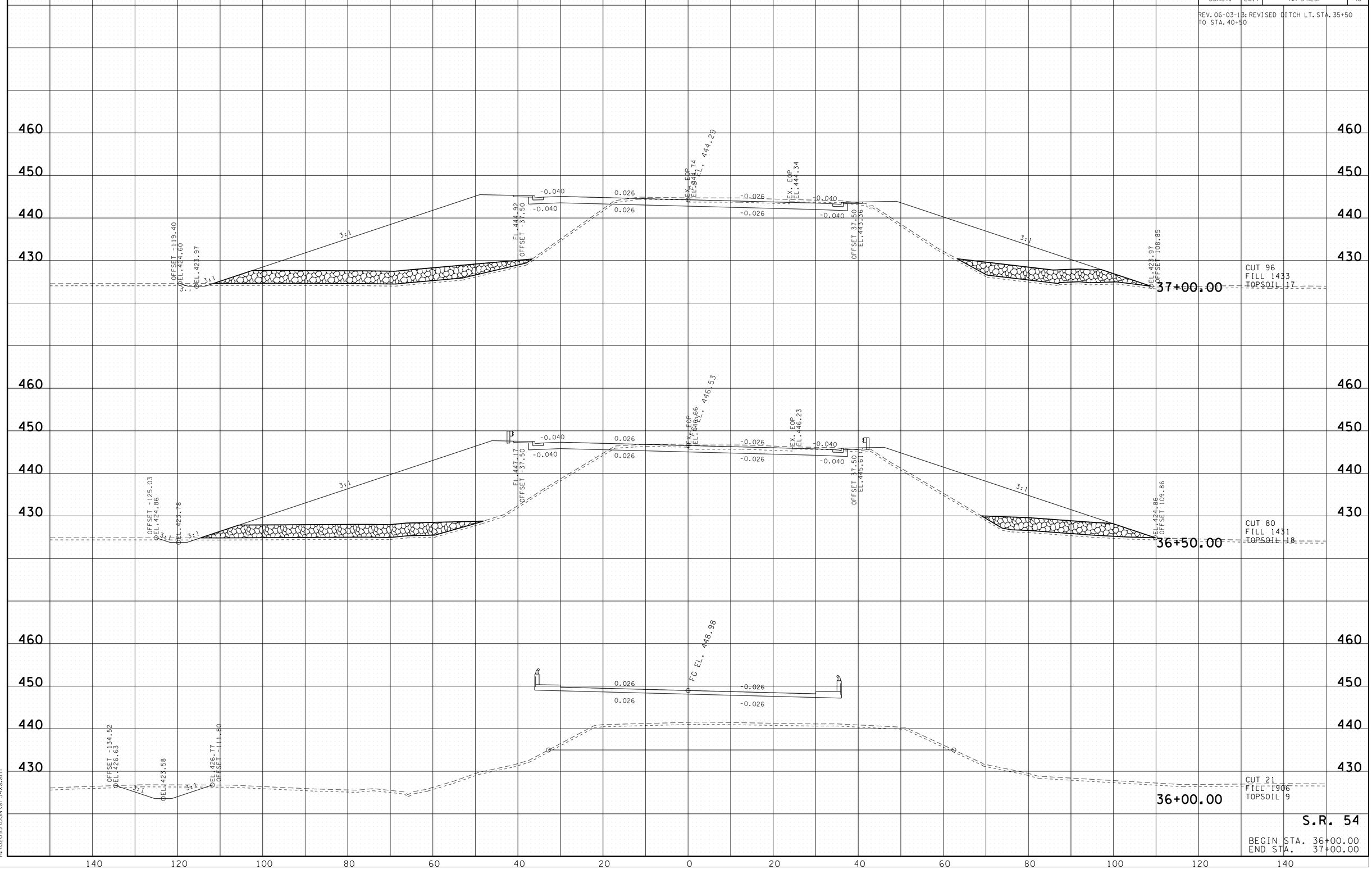
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	41
CONST.	2017	NH-54(26)	48

REV. 06-03-13: REVISED DITCH LT. STA. 35+50 TO STA. 40+50



S.R. 54

BEGIN STA. 36+00.00
END STA. 37+00.00

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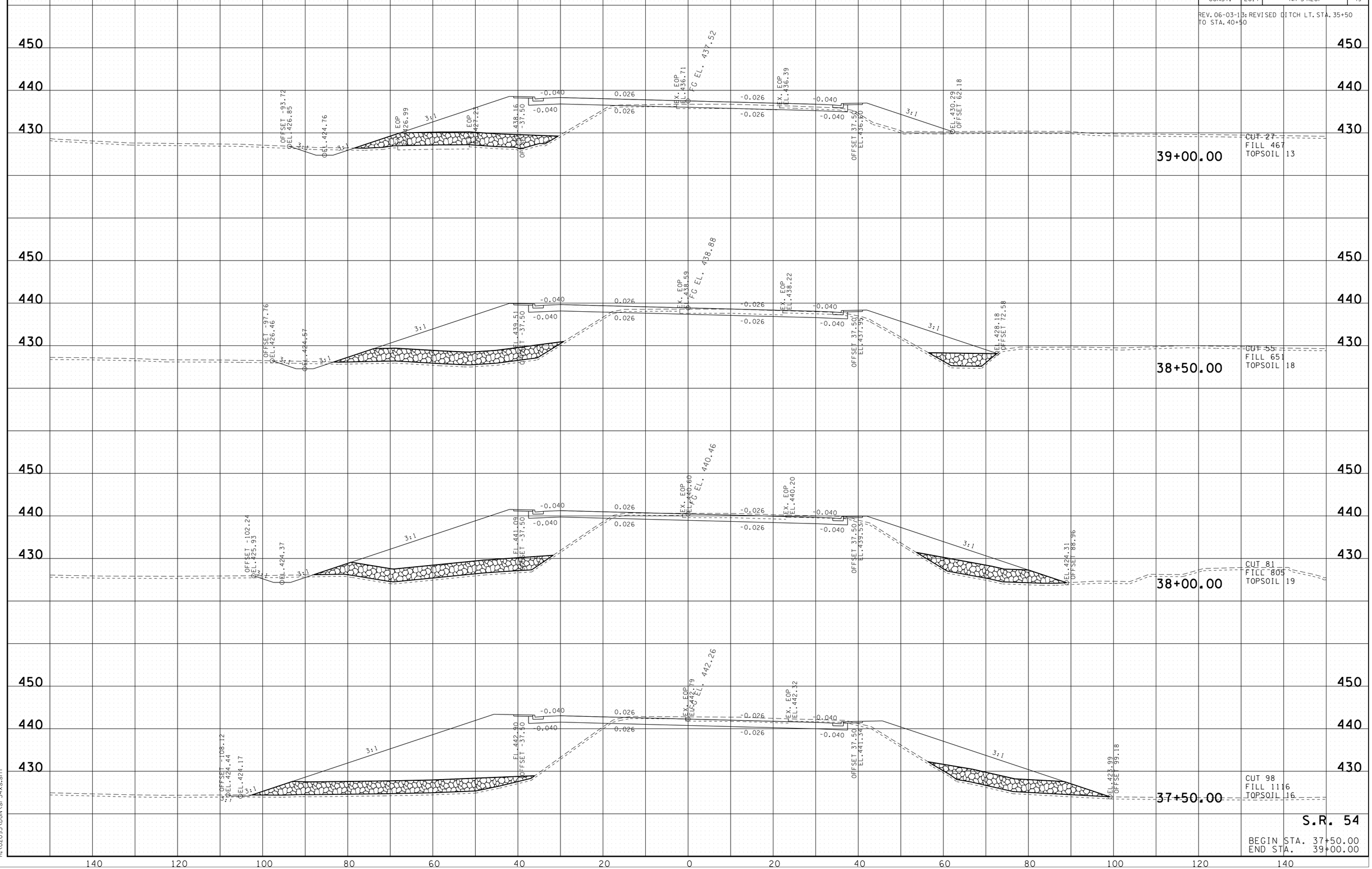
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	42
CONST.	2017	NH-54(26)	49

REV. 06-03-13: REVISED DITCH LT. STA. 35+50 TO STA. 40+50



S.R. 54

BEGIN STA. 37+50.00
END STA. 39+00.00

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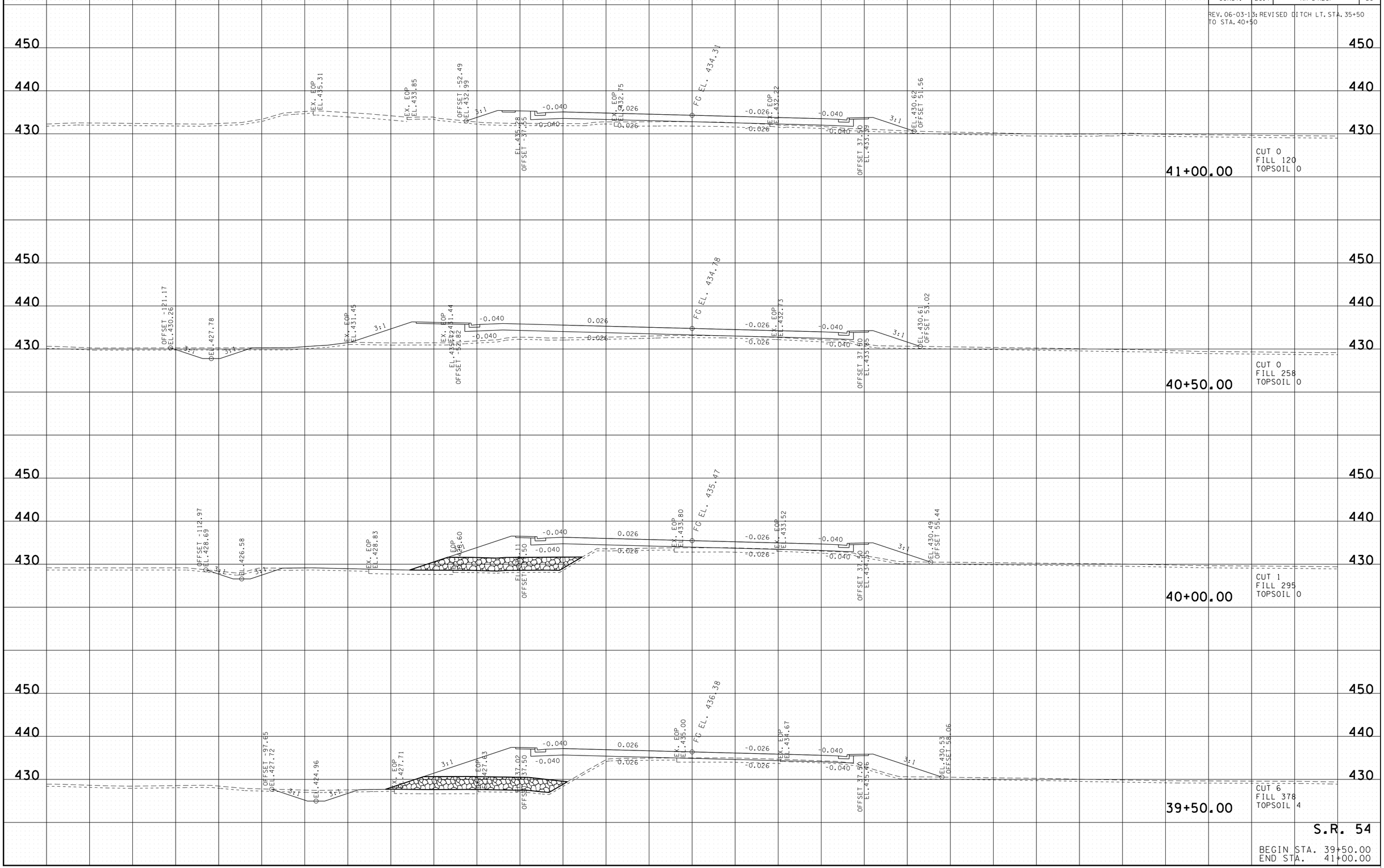
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	43
CONST.	2017	NH-54(26)	50

REV. 06-03-13: REVISED DITCH LT. STA. 35+50 TO STA. 40+50



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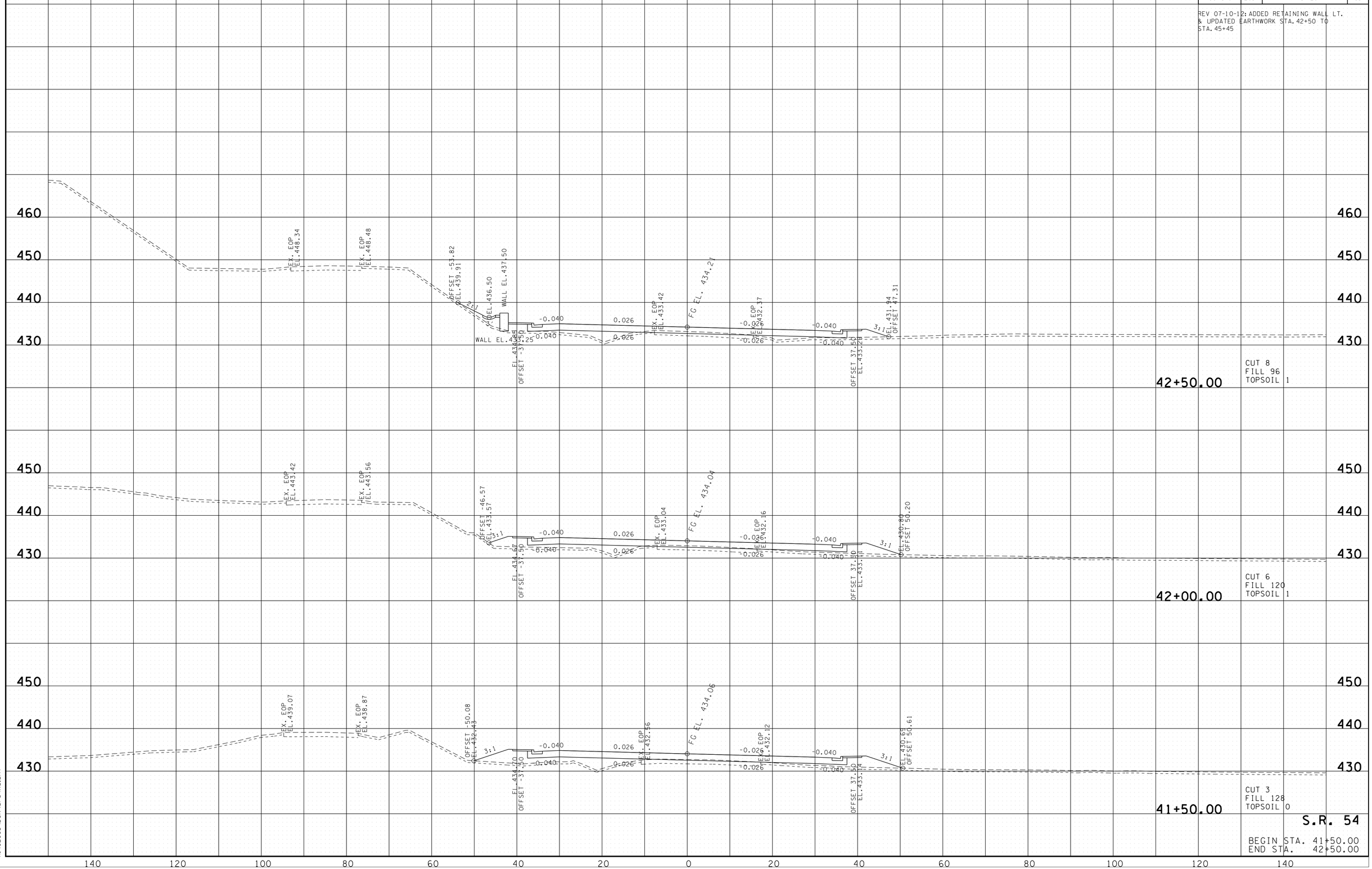
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	44
CONST.	2017	NH-54(26)	51

REV 07-10-12: ADDED RETAINING WALL LT.
& UPDATED EARTHWORK STA. 42+50 TO
STA. 45+45



S.R. 54

BEGIN STA. 41+50.00
END STA. 42+50.00

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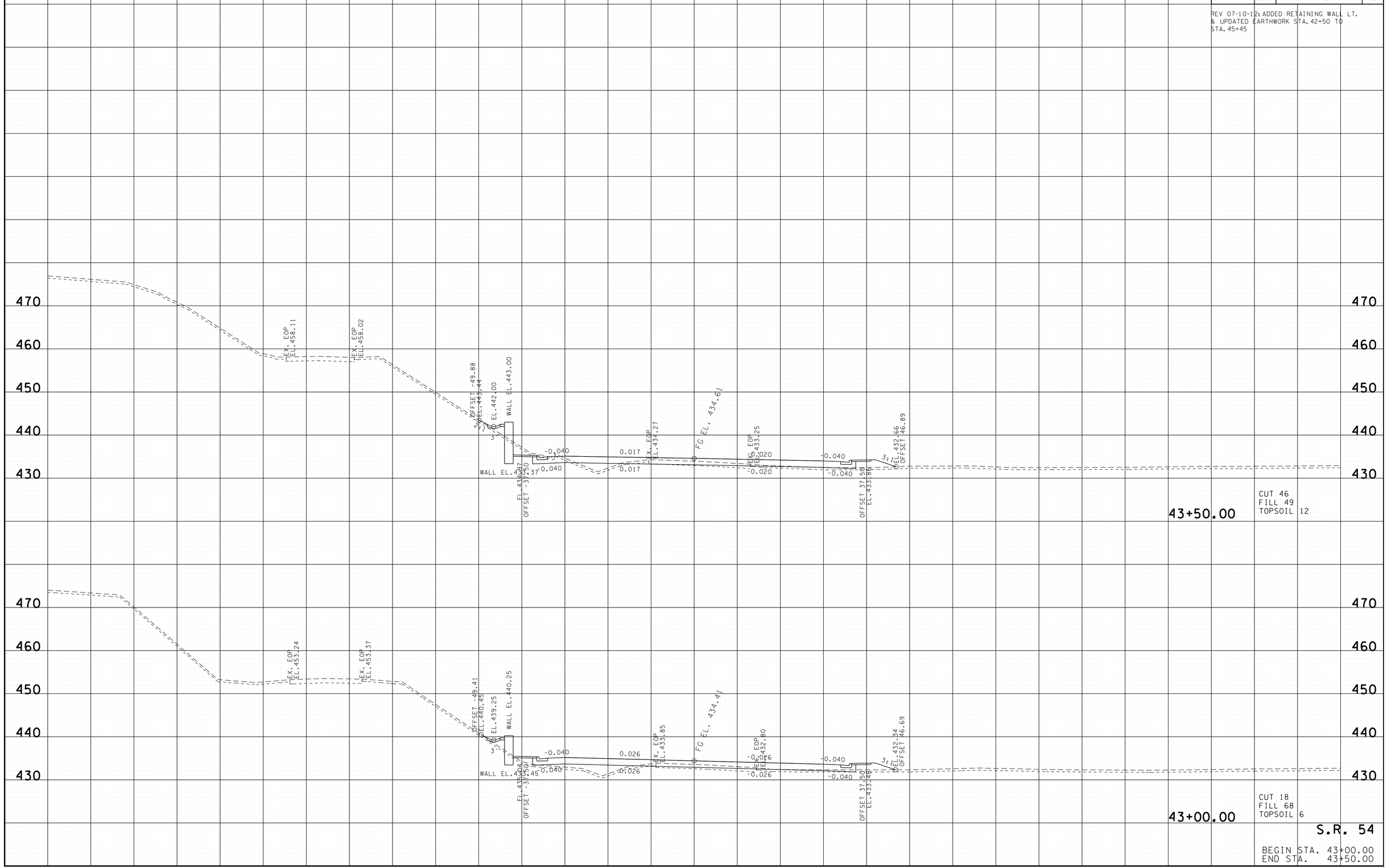
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	45
CONST.	2017	NH-54(26)	52

REV 07-10-12: ADDED RETAINING WALL LT. & UPDATED EARTHWORK STA. 42+50 TO STA. 45+45



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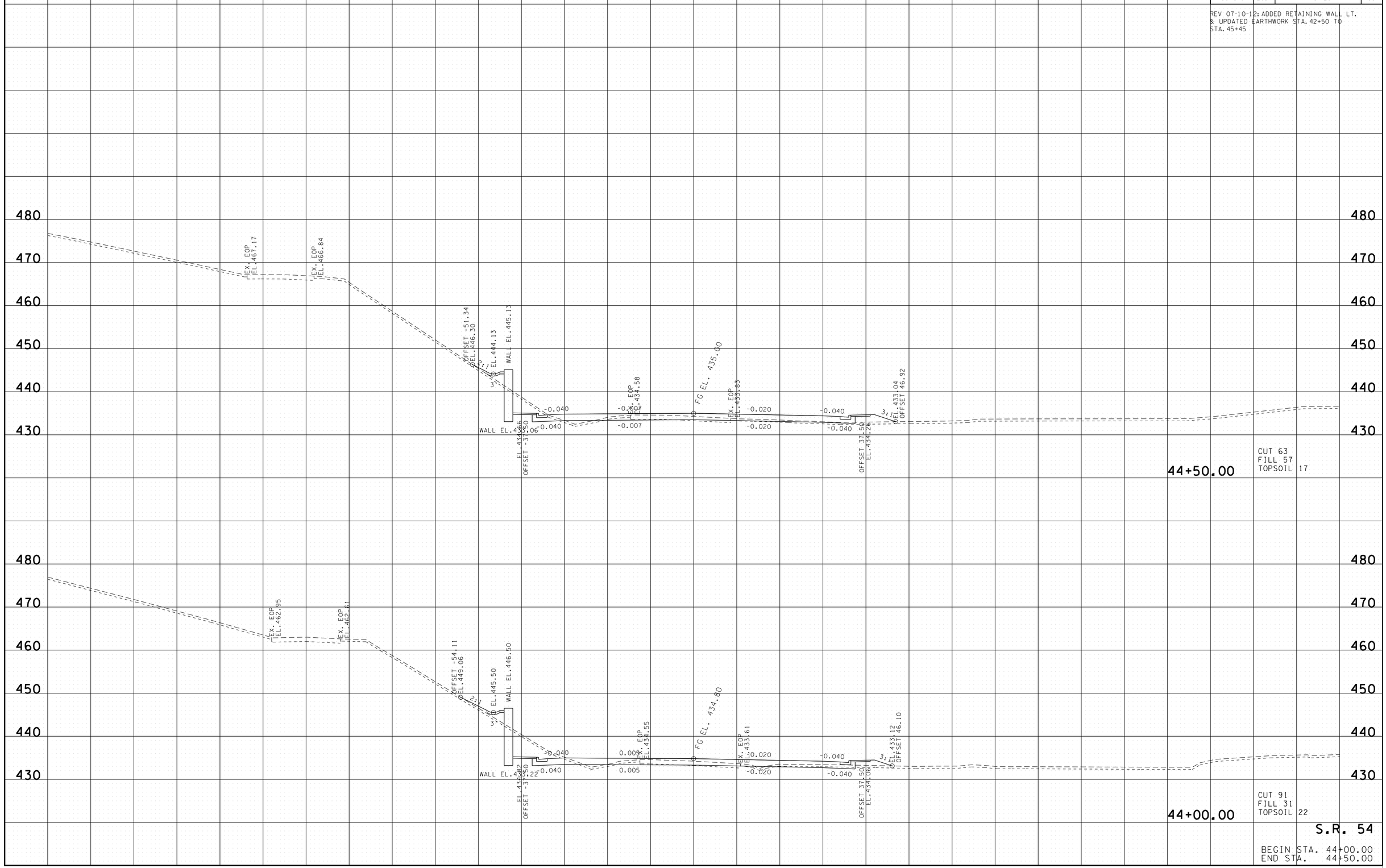
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	46
CONST.	2017	NH-54(26)	53

REV 07-10-12: ADDED RETAINING WALL LT. & UPDATED EARTHWORK STA. 42+50 TO STA. 45+45



S.R. 54

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

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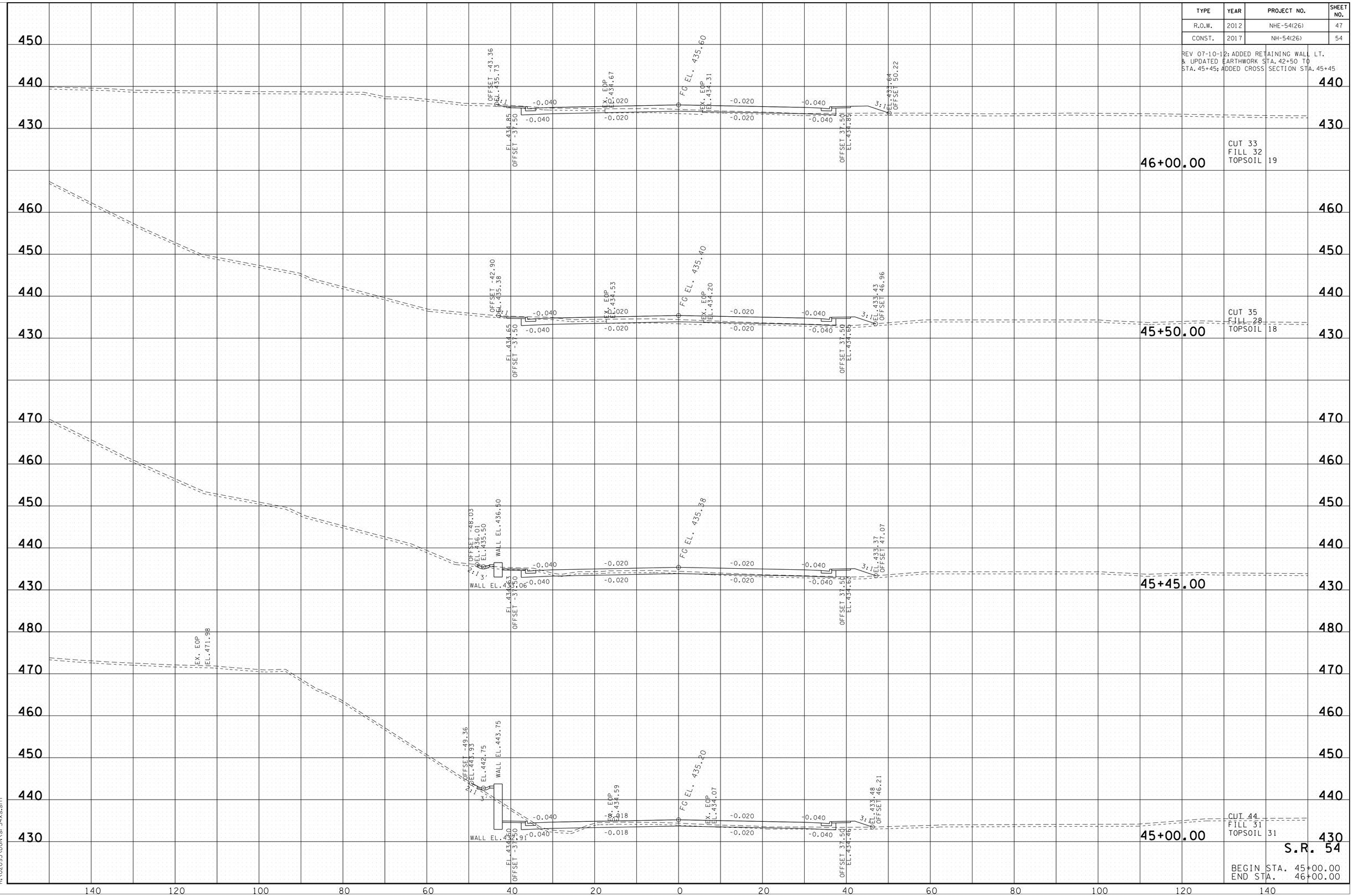
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	47
CONST.	2017	NH-54(26)	54

REV 07-10-12: ADDED RETAINING WALL LT. & UPDATED EARTHWORK STA. 42+50 TO STA. 45+45; ADDED CROSS SECTION STA. 45+45



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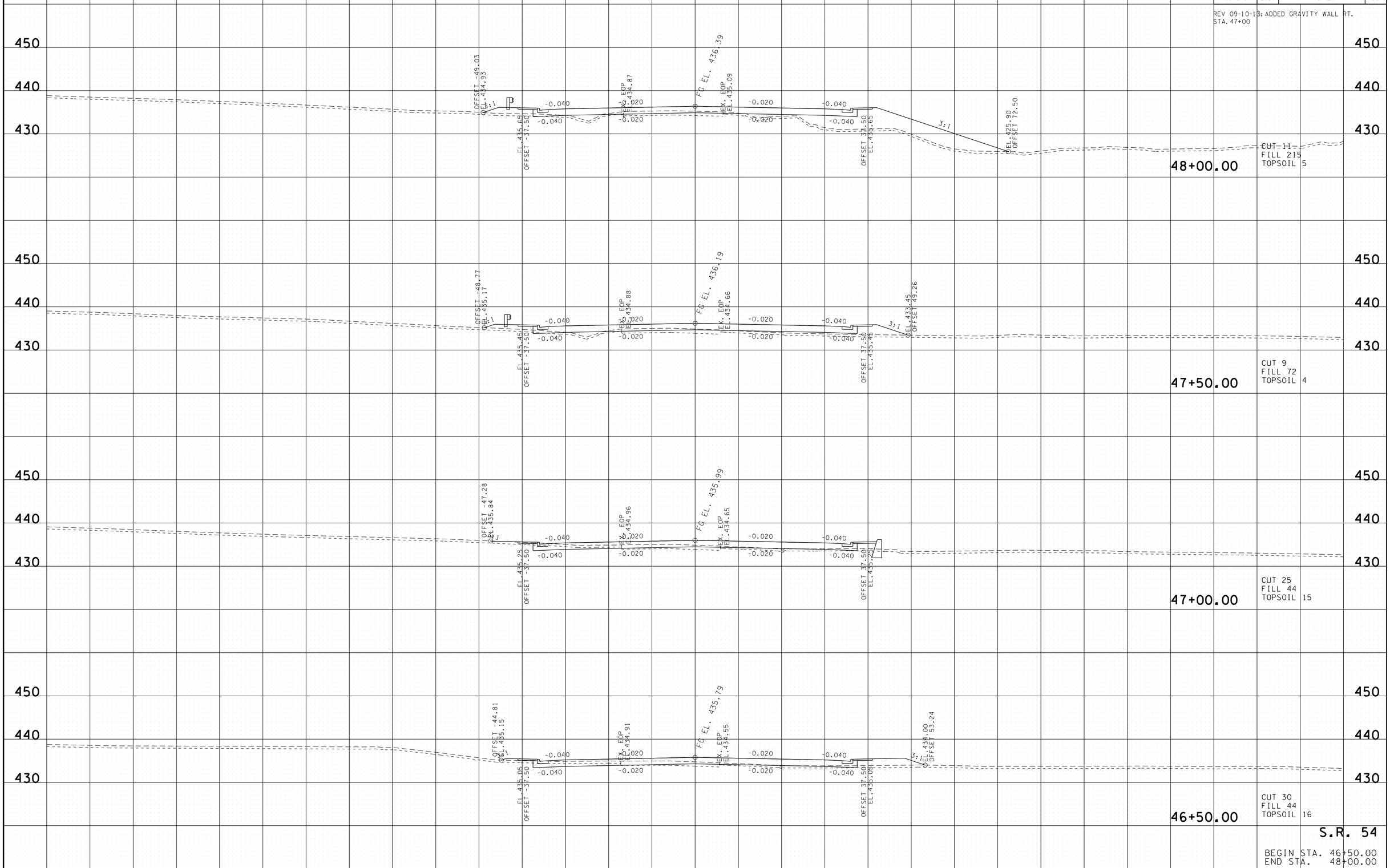
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	48
CONST.	2017	NH-54(26)	55

REV 09-10-13: ADDED GRAVITY WALL RT. STA. 47+00



S.R. 54

BEGIN STA. 46+50.00
END STA. 48+00.00

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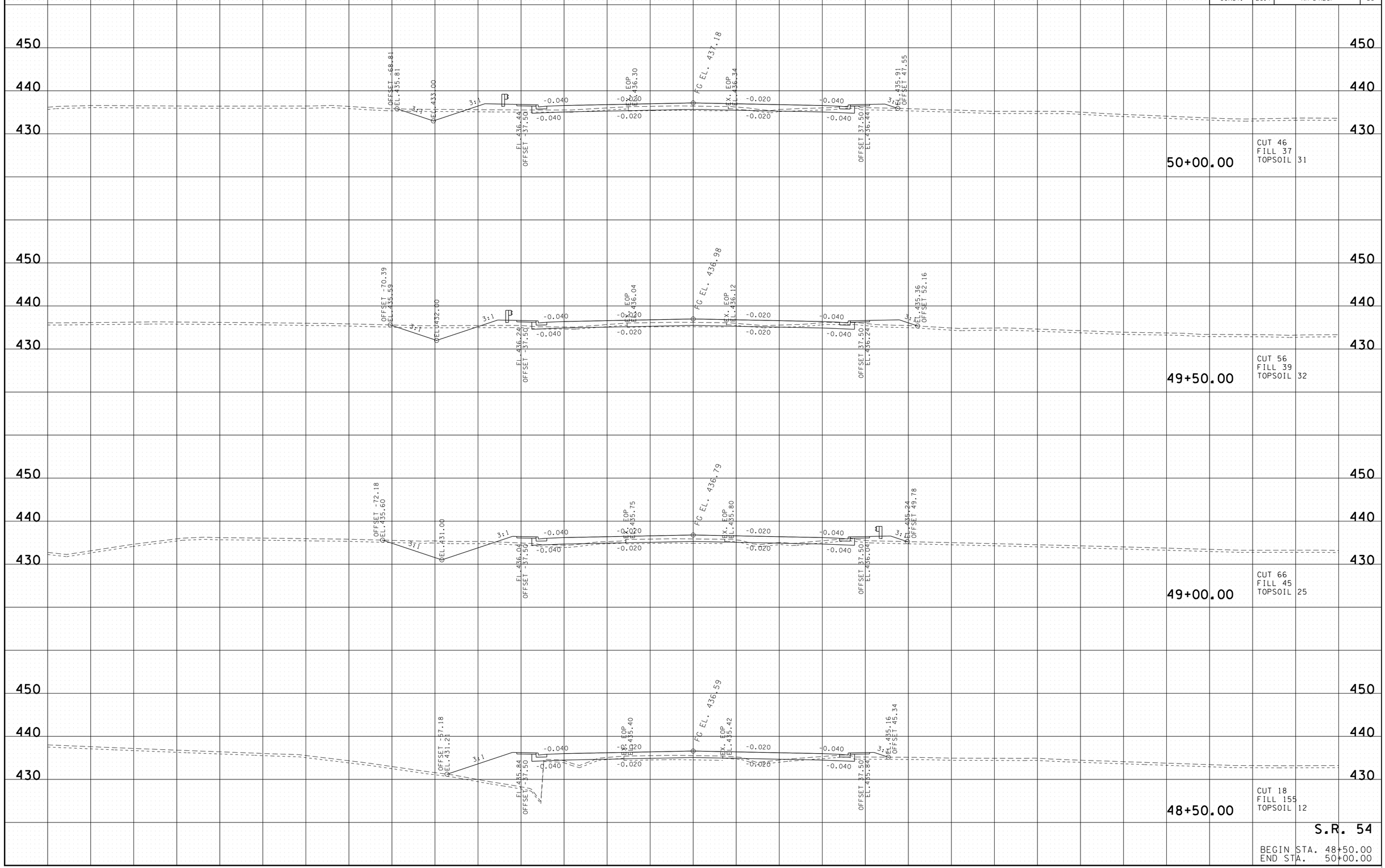
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	49
CONST.	2017	NH-54(26)	56



S.R. 54

BEGIN STA. 48+50.00
END STA. 50+00.00

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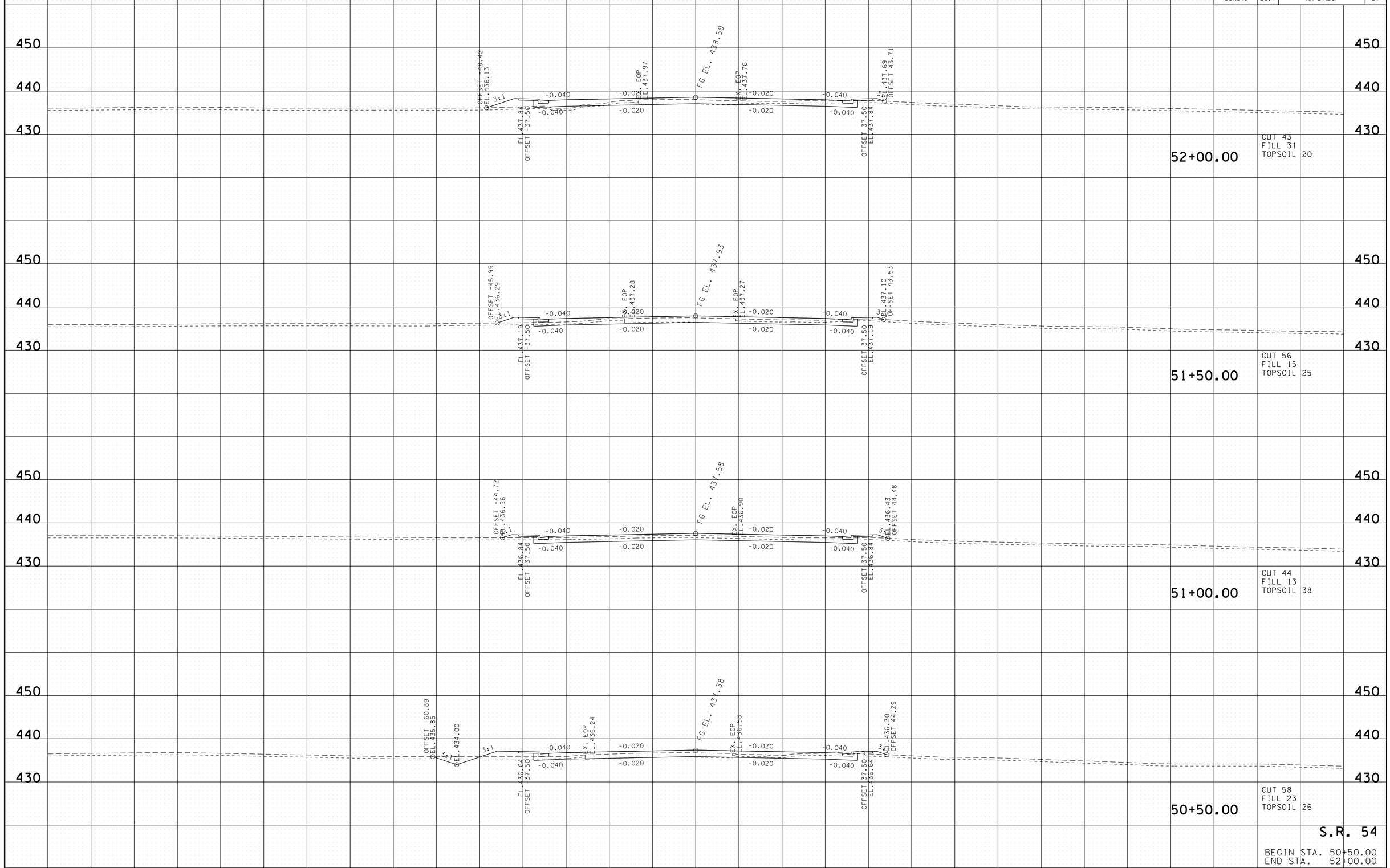
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	50
CONST.	2017	NH-54(26)	57



S.R. 54

BEGIN STA. 50+50.00
END STA. 52+00.00

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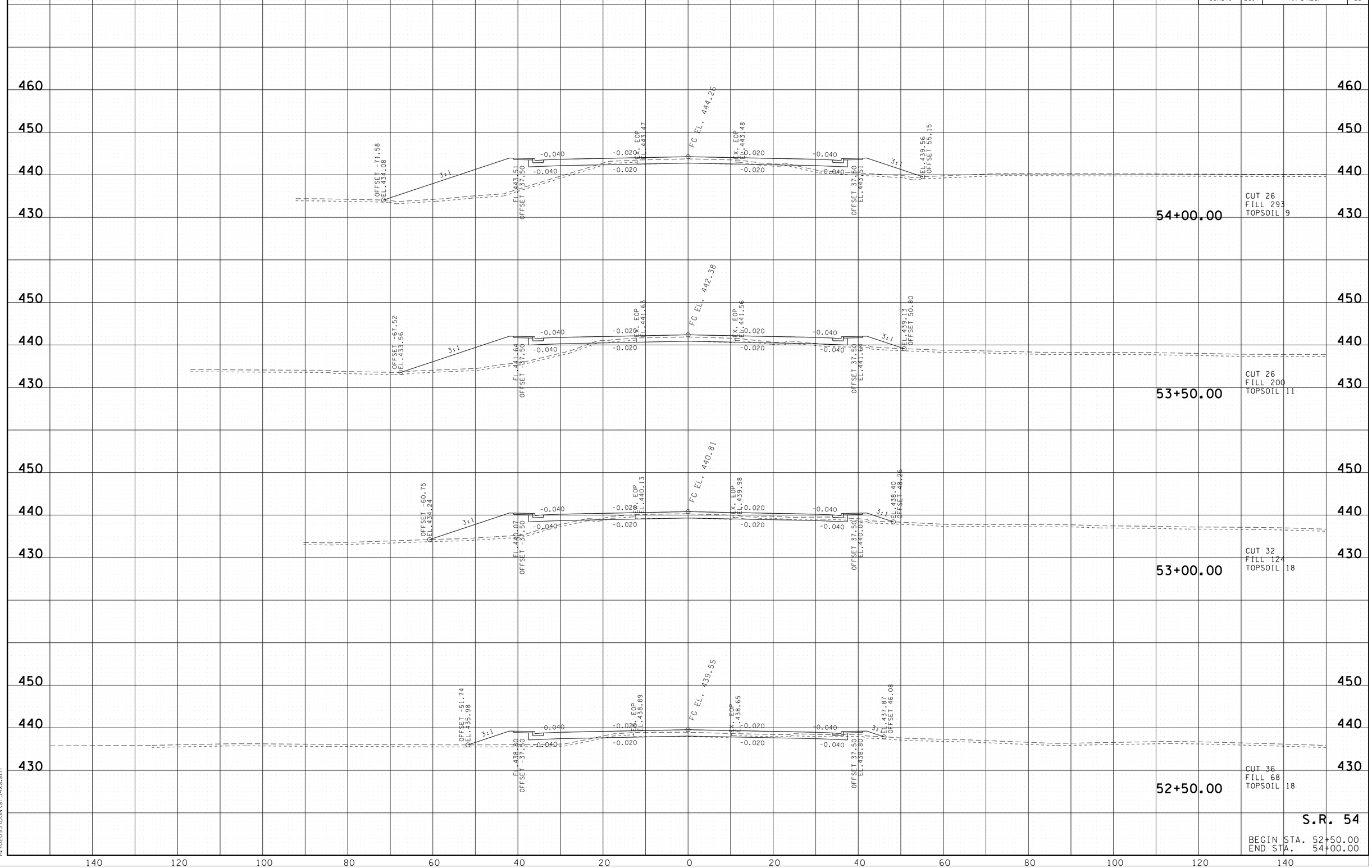
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	51
CONST.	2017	NH-54(26)	58



S.R. 54

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

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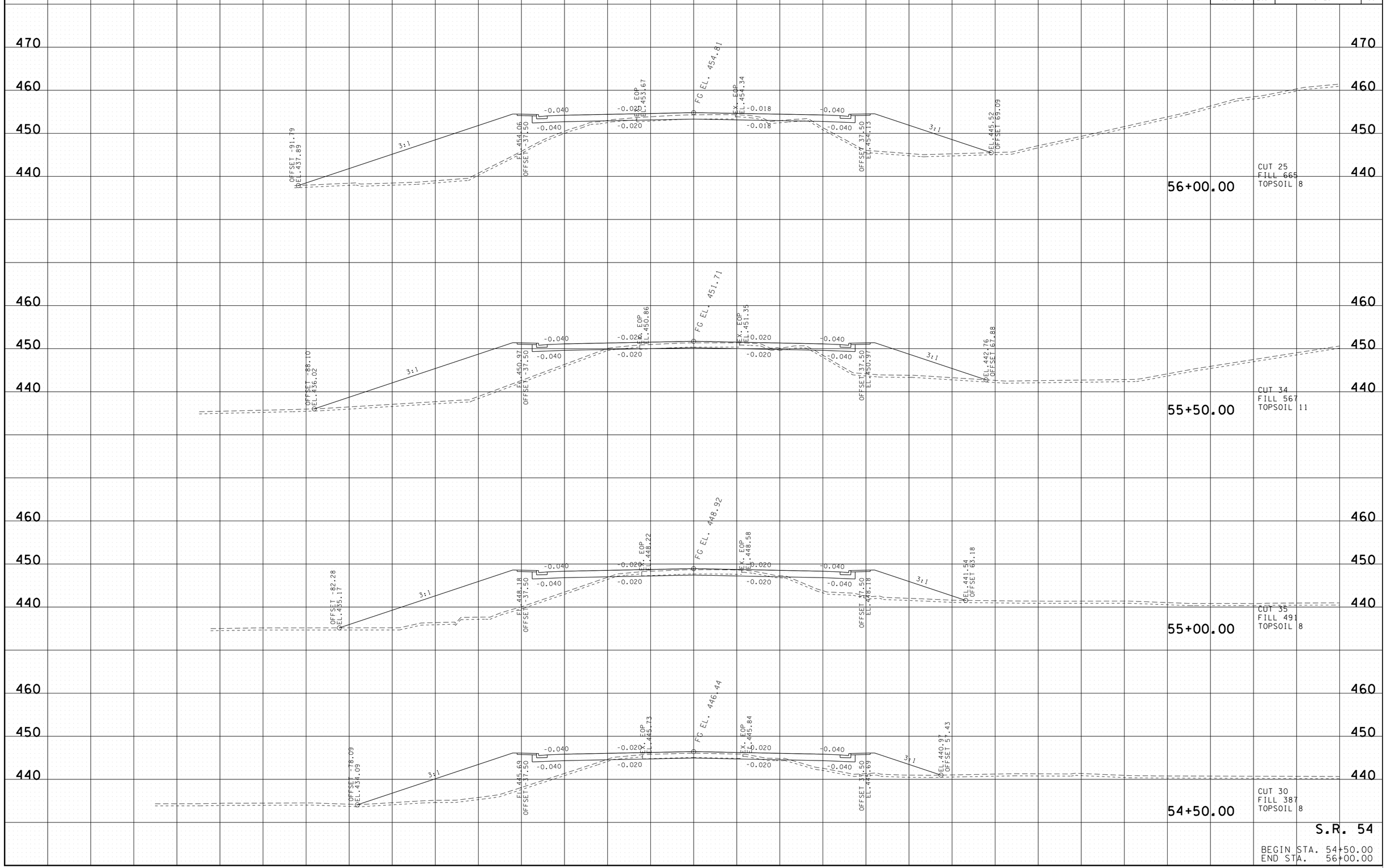
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	52
CONST.	2017	NH-54(26)	59



S.R. 54

BEGIN STA. 54+50.00
END STA. 56+00.00

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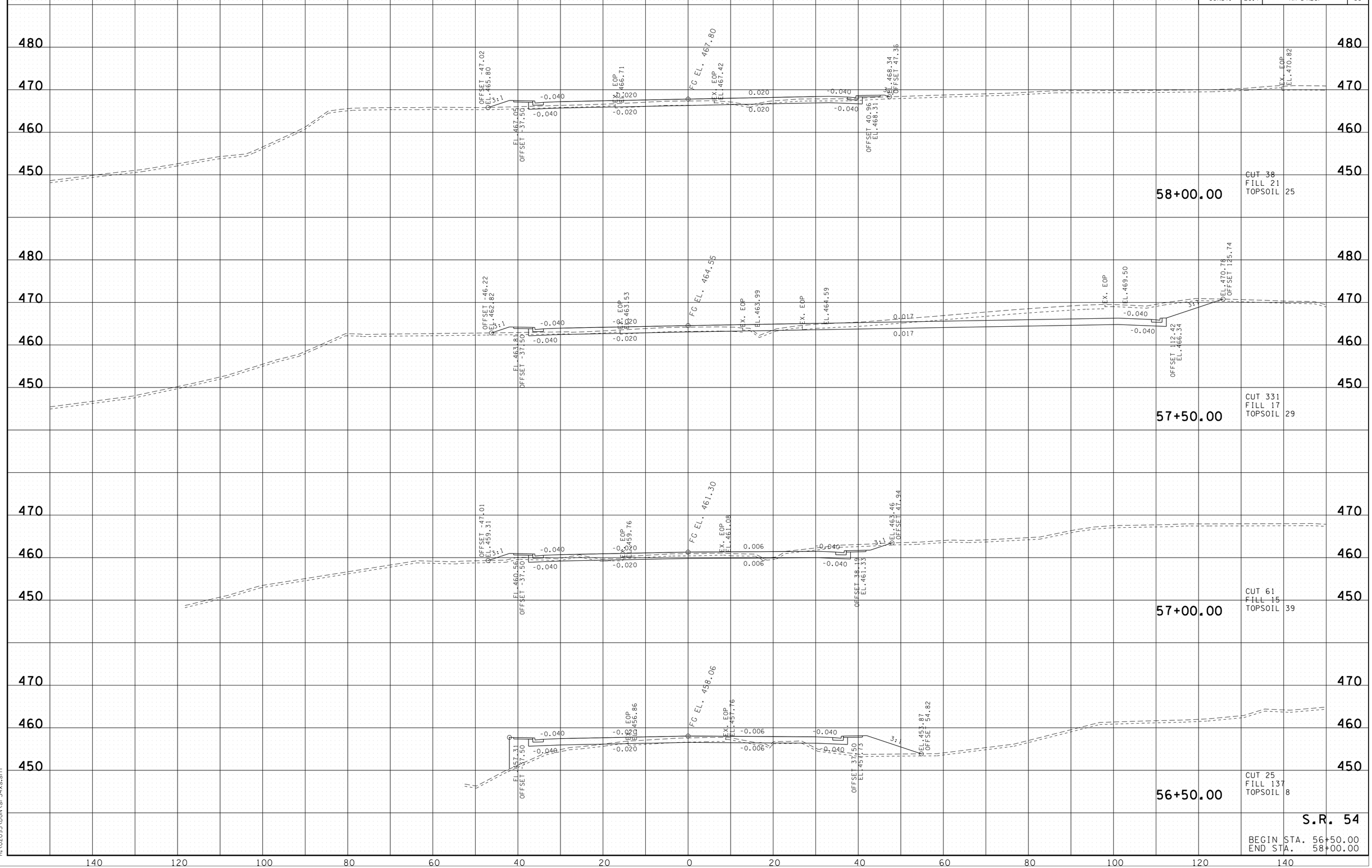
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	53
CONST.	2017	NH-54(26)	60



S.R. 54

BEGIN STA. 56+50.00
END STA. 58+00.00

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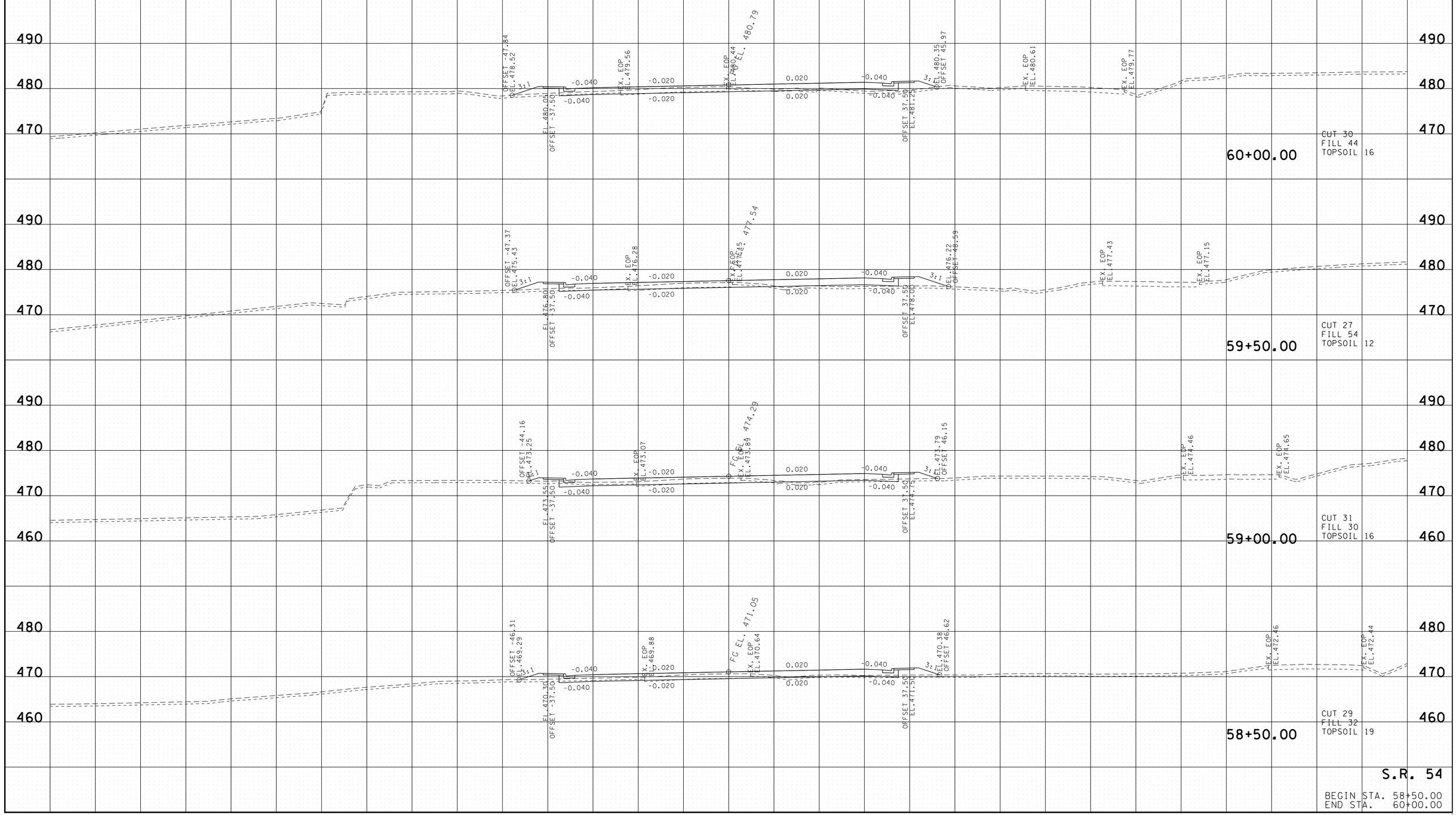
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	54
CONST.	2017	NH-54(26)	61



S.R. 54

BEGIN STA. 58+50.00
END STA. 60+00.00

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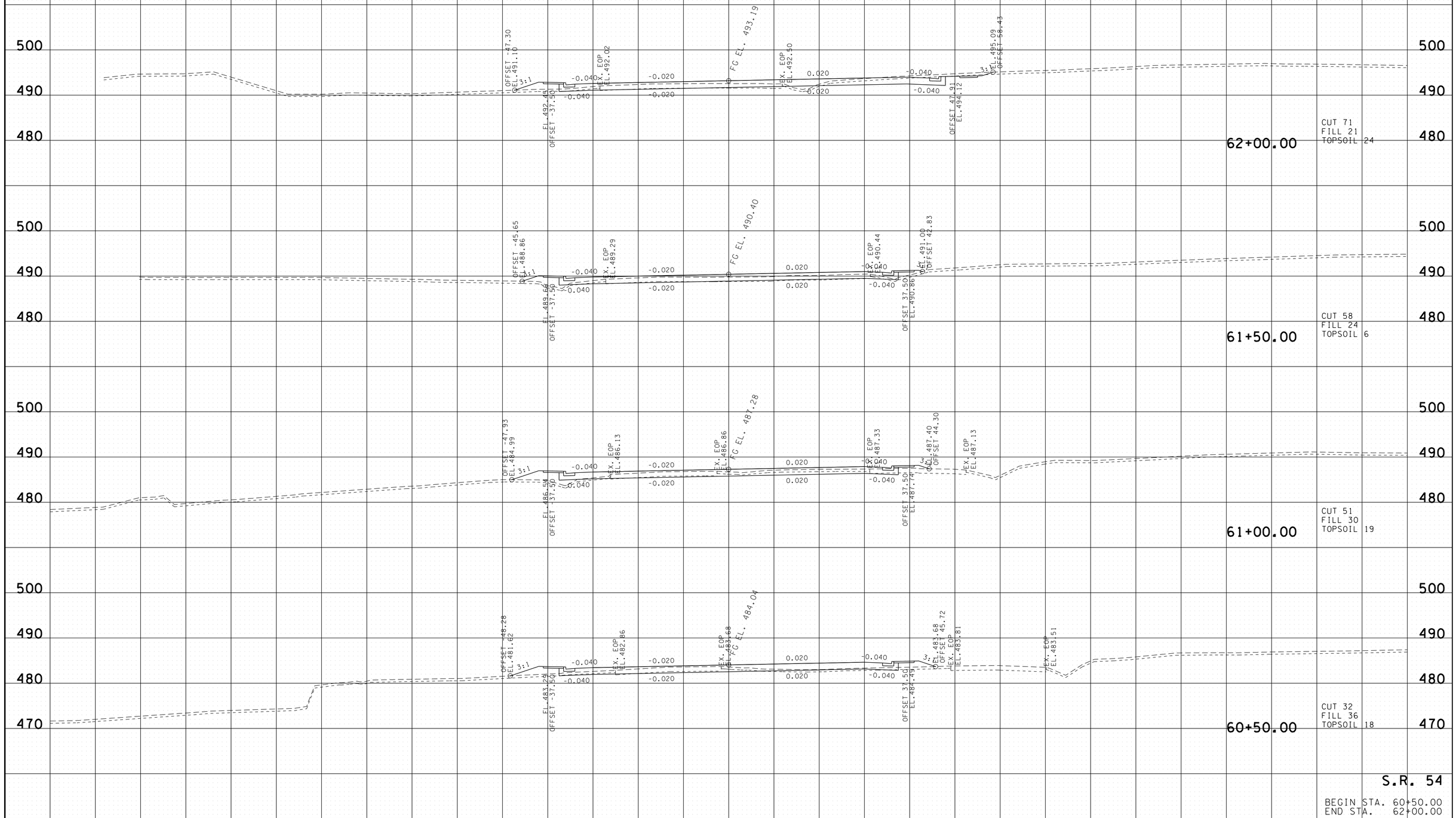
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	55
CONST.	2017	NH-54(26)	62



S.R. 54

BEGIN STA. 60+50.00
END STA. 62+00.00

7/25/2016 3:10:57 PM
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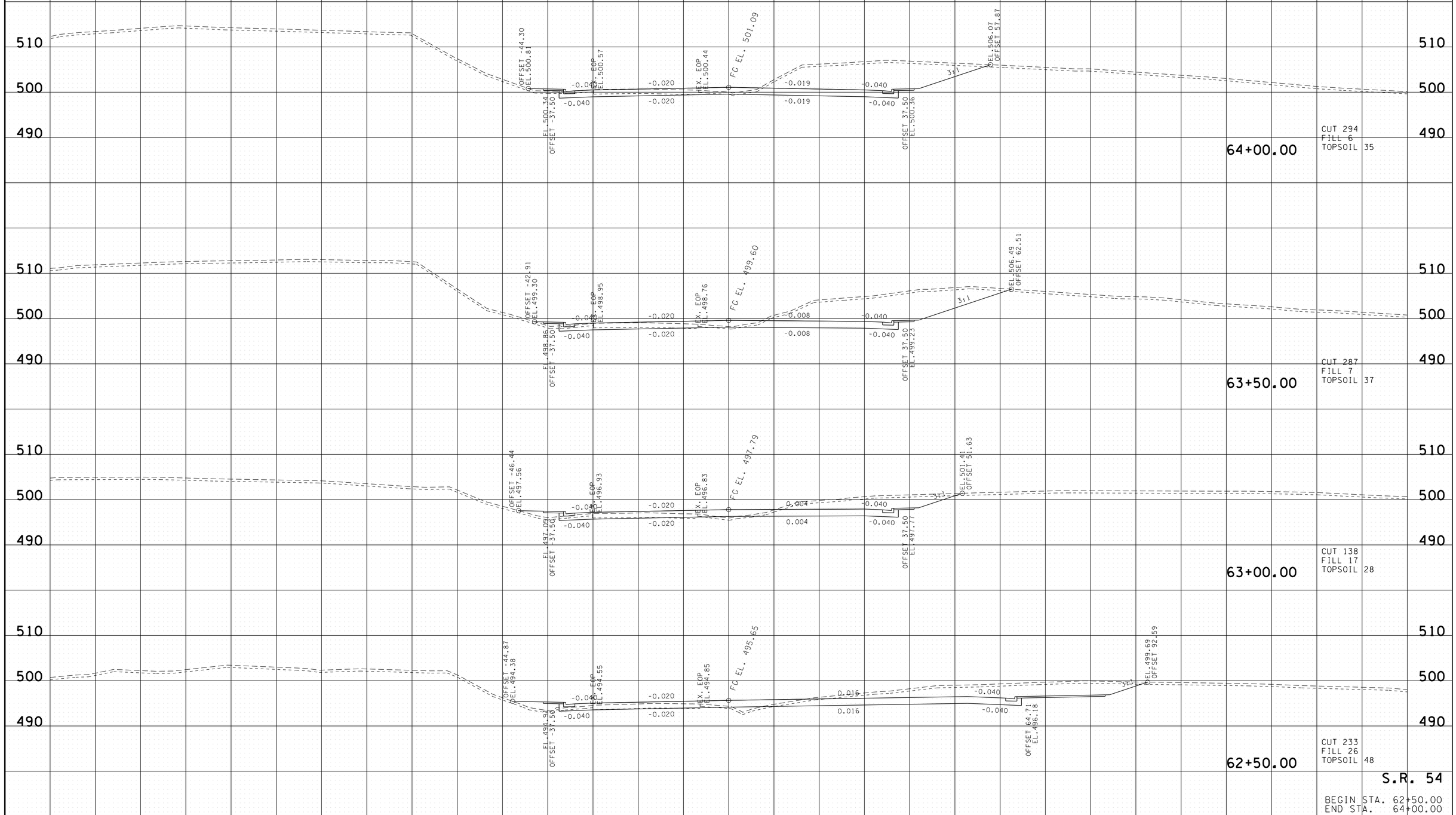
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	56
CONST.	2017	NH-54(26)	63



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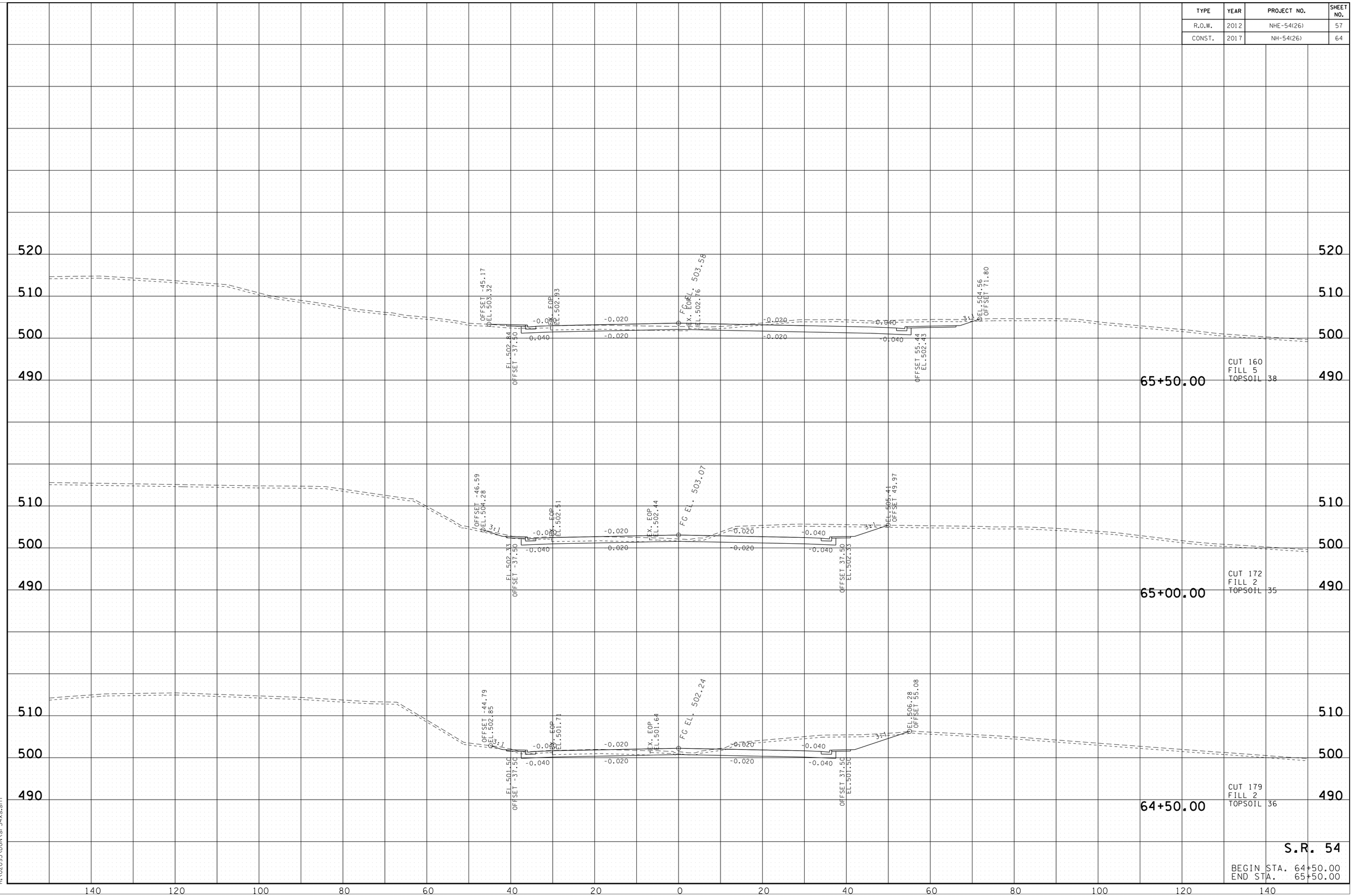
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	57
CONST.	2017	NH-54(26)	64



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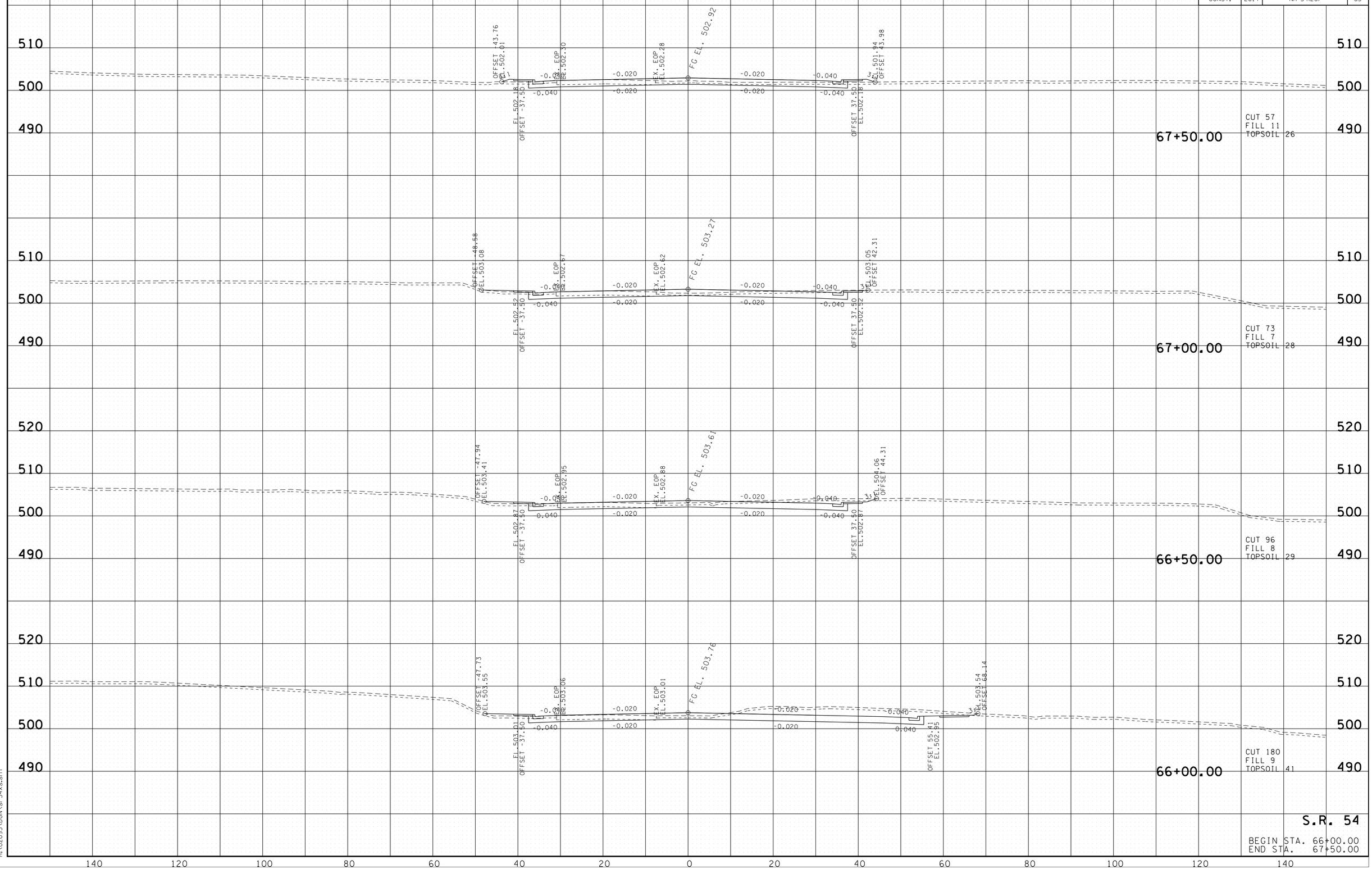
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	58
CONST.	2017	NH-54(26)	65



S.R. 54

BEGIN STA. 66+00.00
END STA. 67+50.00

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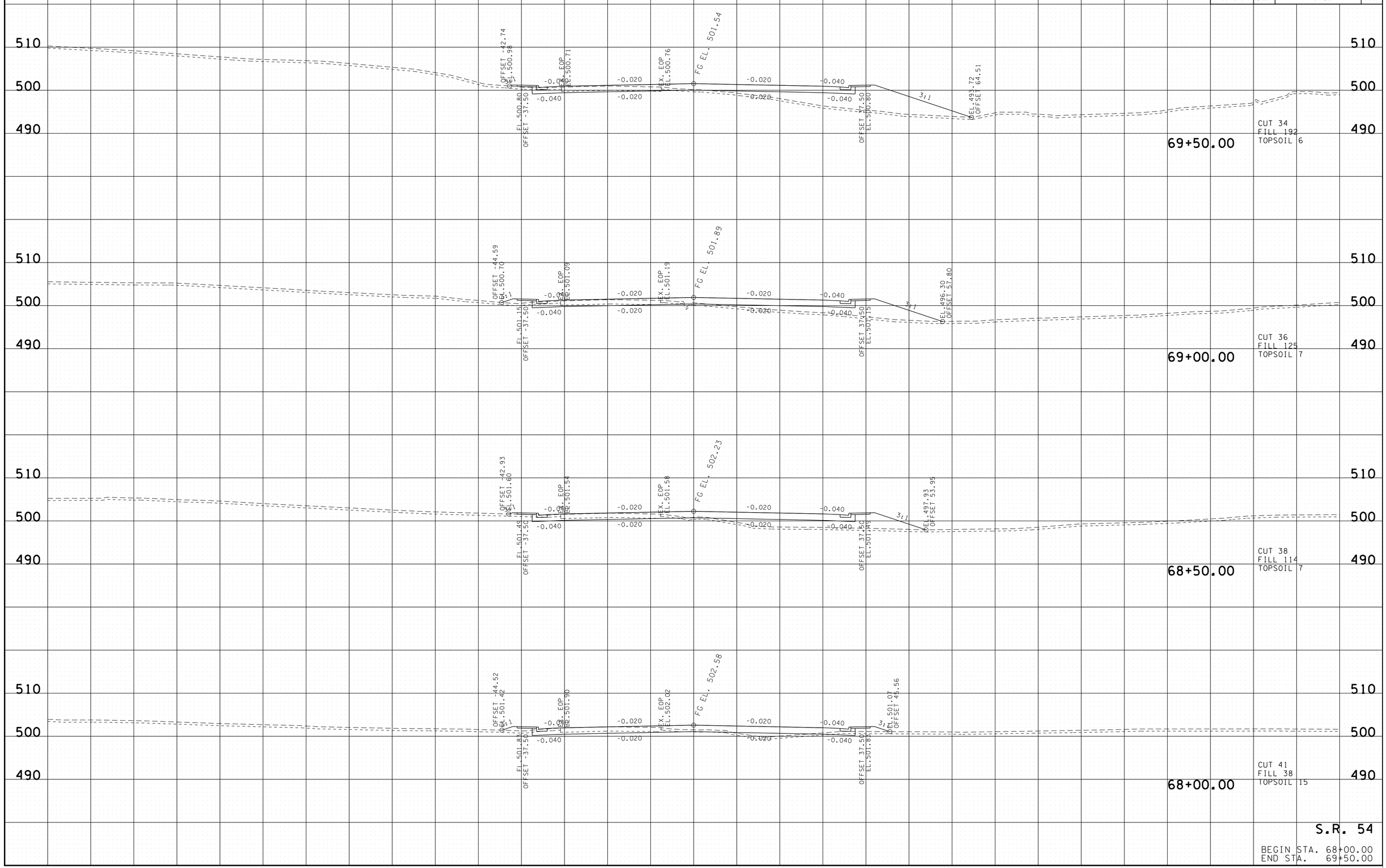
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	59
CONST.	2017	NH-54(26)	66



S.R. 54

BEGIN STA. 68+00.00
END STA. 69+50.00

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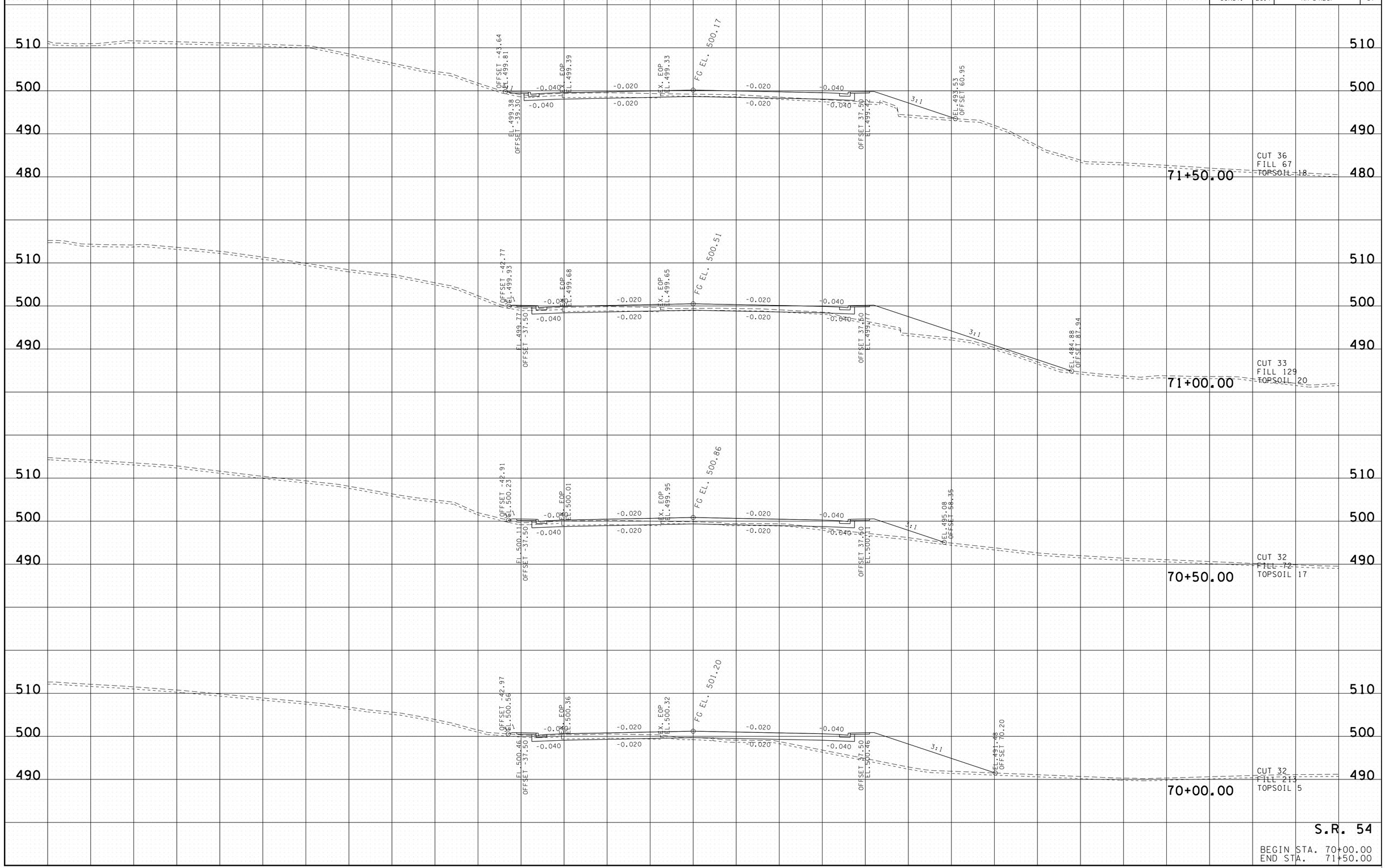
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	60
CONST.	2017	NH-54(26)	67



S.R. 54

BEGIN STA. 70+00.00
END STA. 71+50.00

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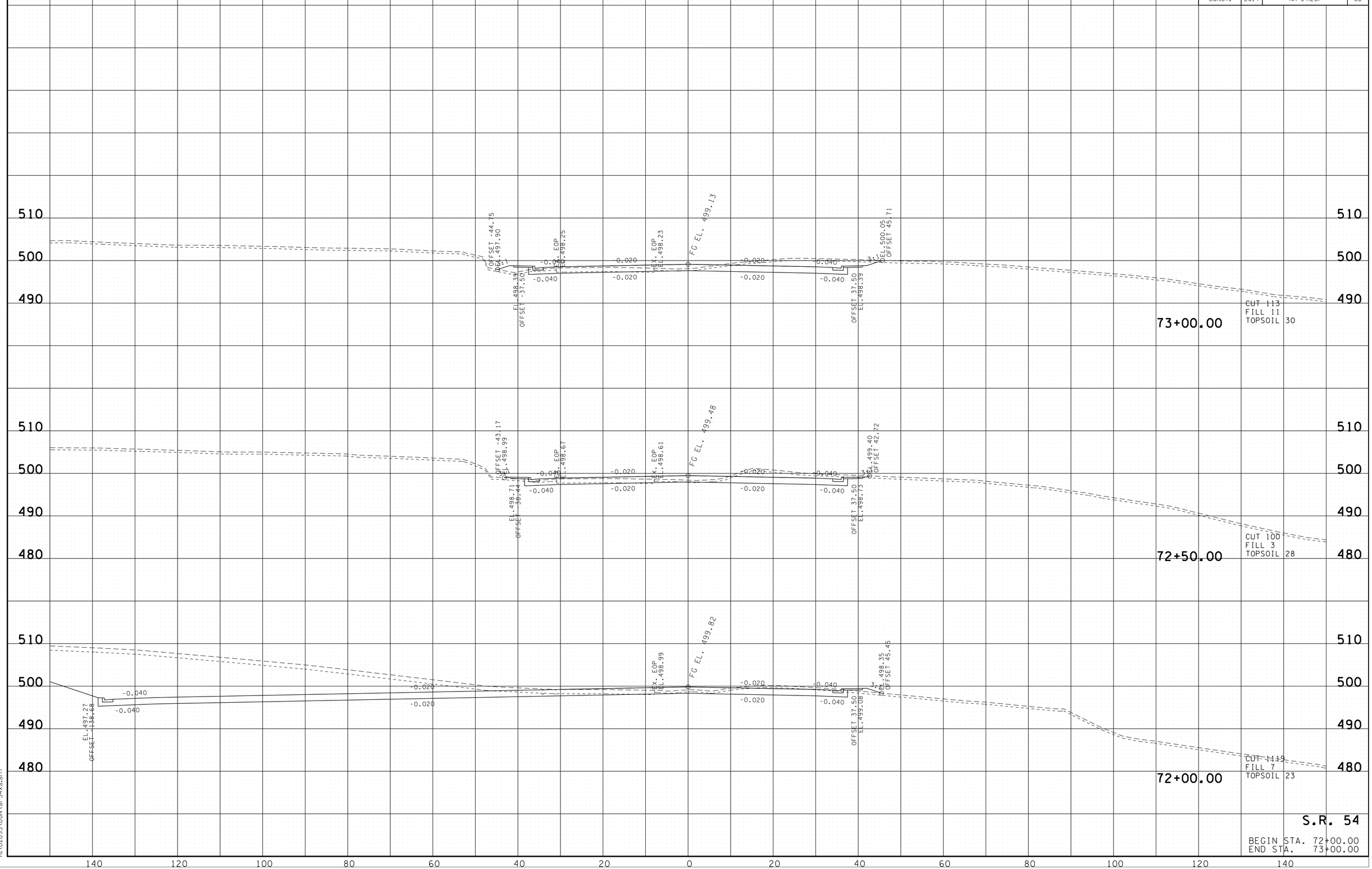
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	61
CONST.	2017	NH-54(26)	68



S.R. 54

BEGIN STA. 72+00.00
END STA. 73+00.00

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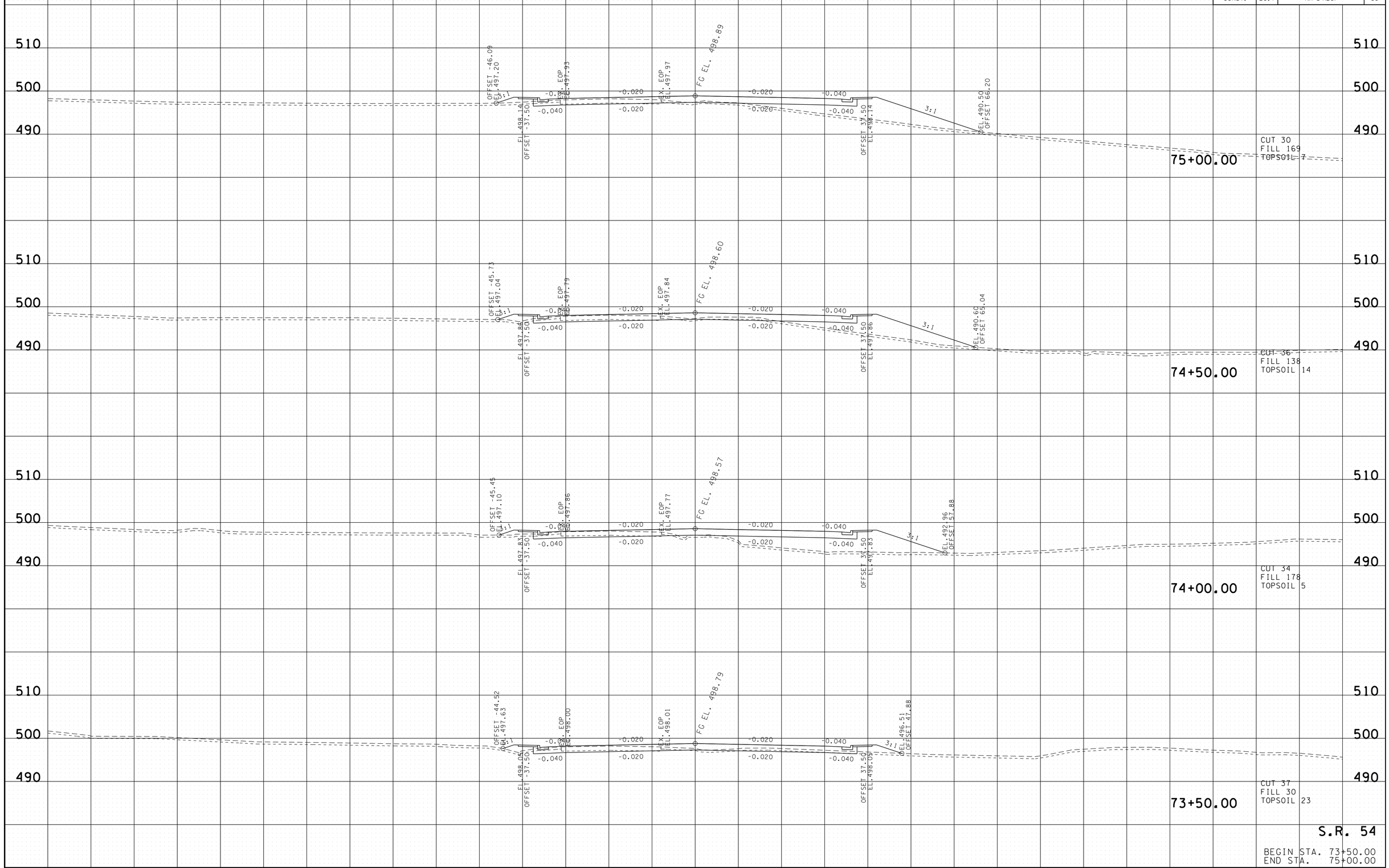
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	62
CONST.	2017	NH-54(26)	69



S.R. 54

BEGIN STA. 73+50.00
END STA. 75+00.00

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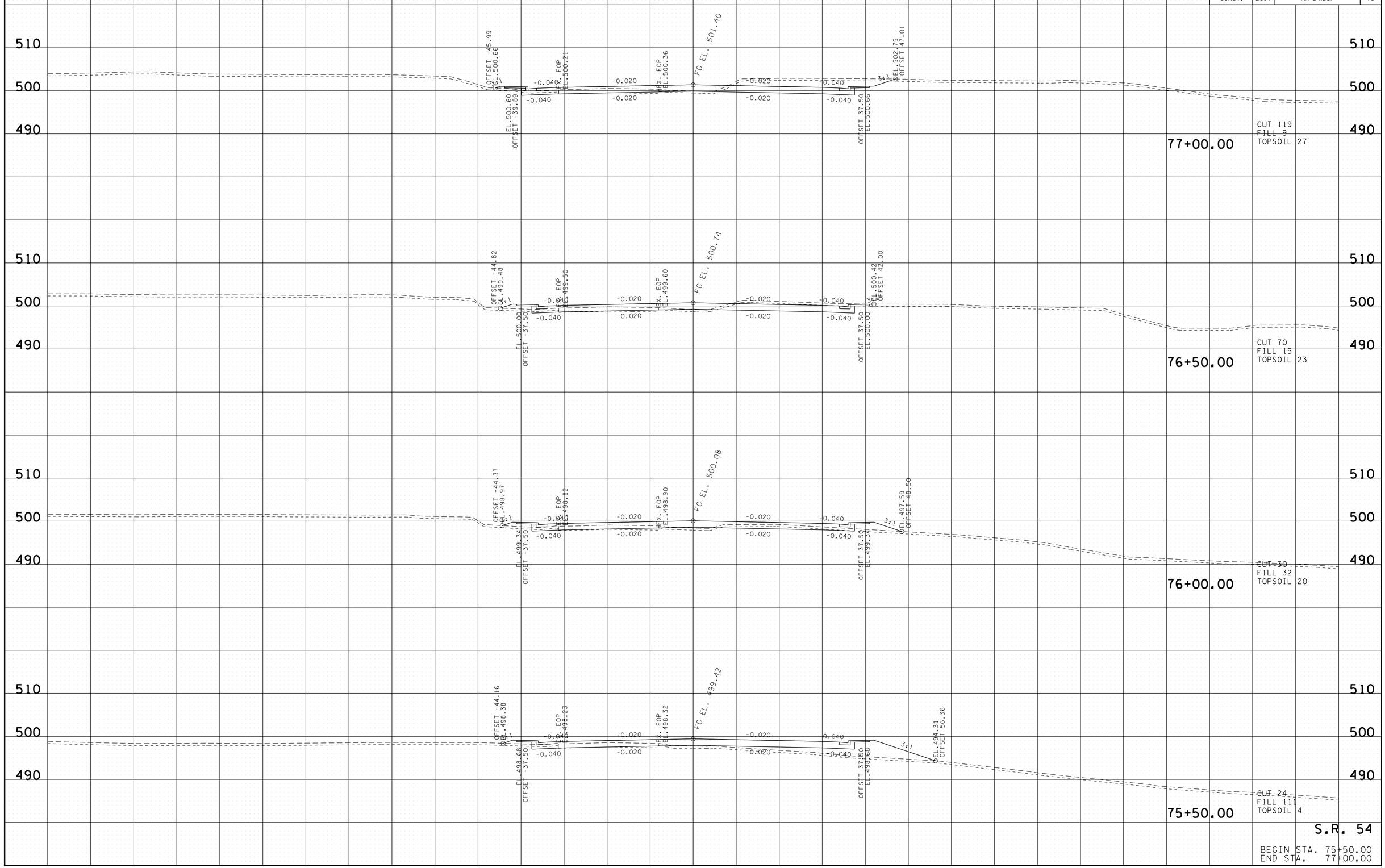
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	63
CONST.	2017	NH-54(26)	70



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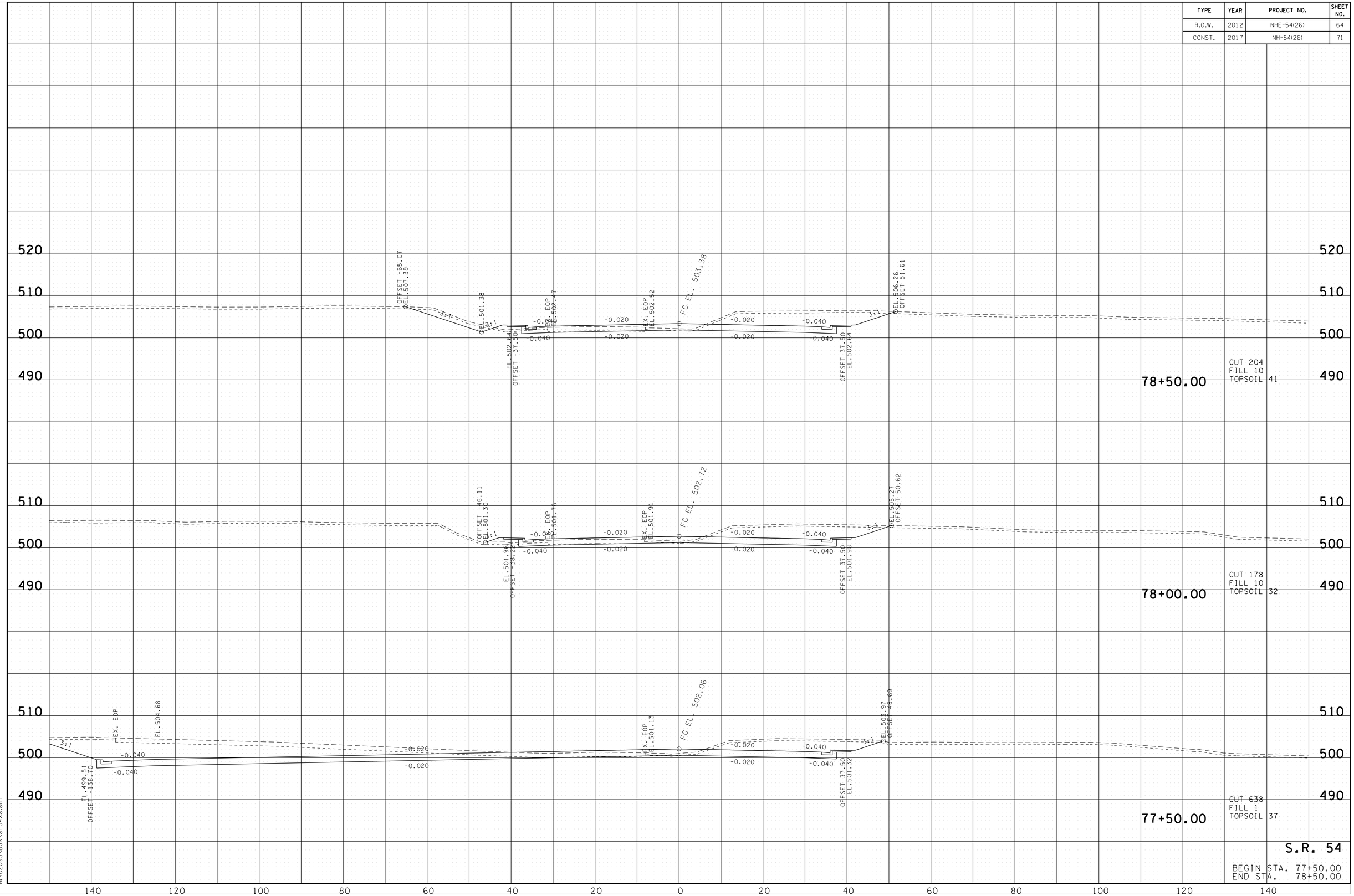
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	64
CONST.	2017	NH-54(26)	71



S.R. 54

BEGIN STA. 77+50.00
END STA. 78+50.00

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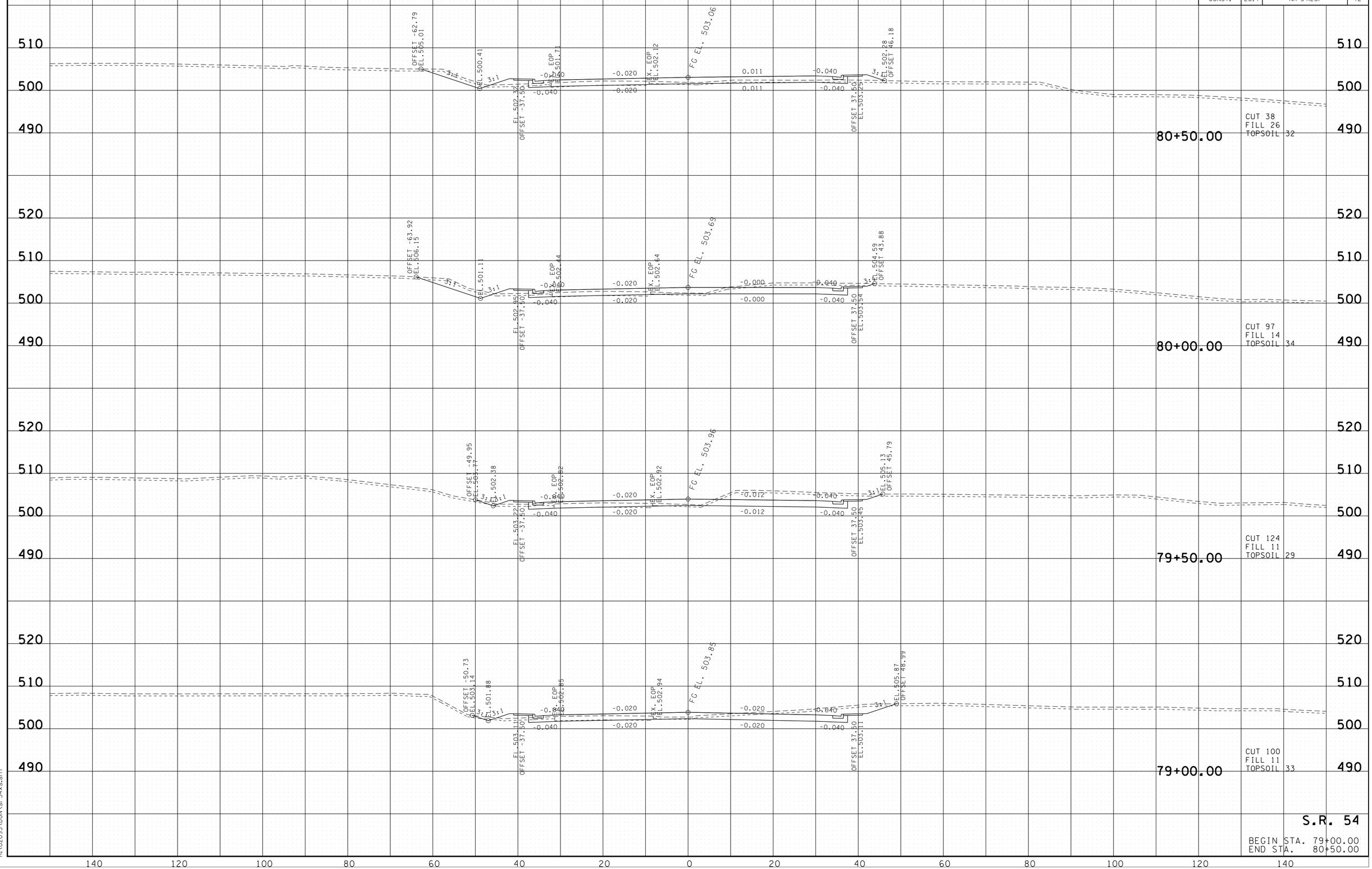
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	65
CONST.	2017	NH-54(26)	72



S.R. 54

BEGIN STA. 79+00.00
END STA. 80+50.00

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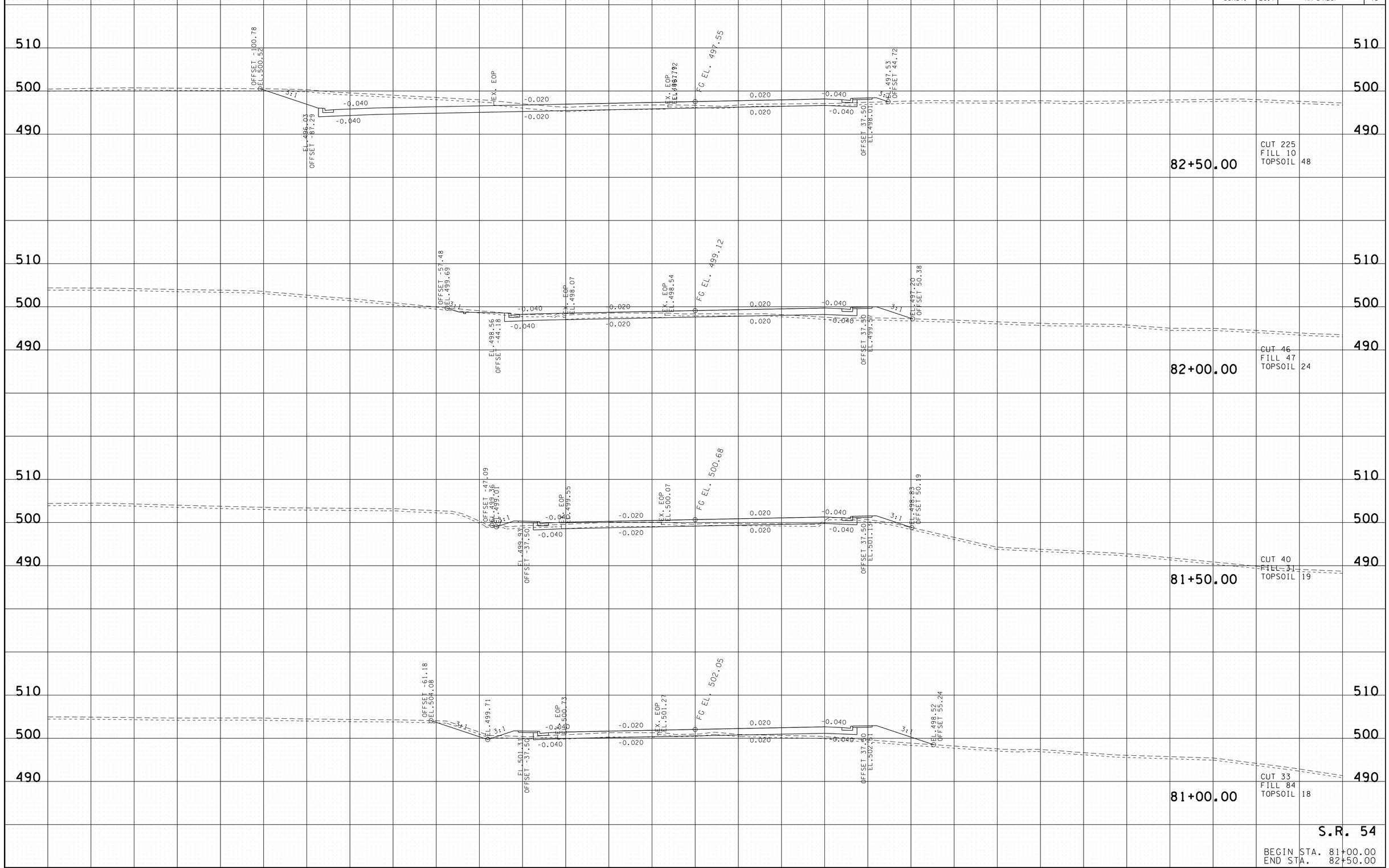
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	66
CONST.	2017	NH-54(26)	73



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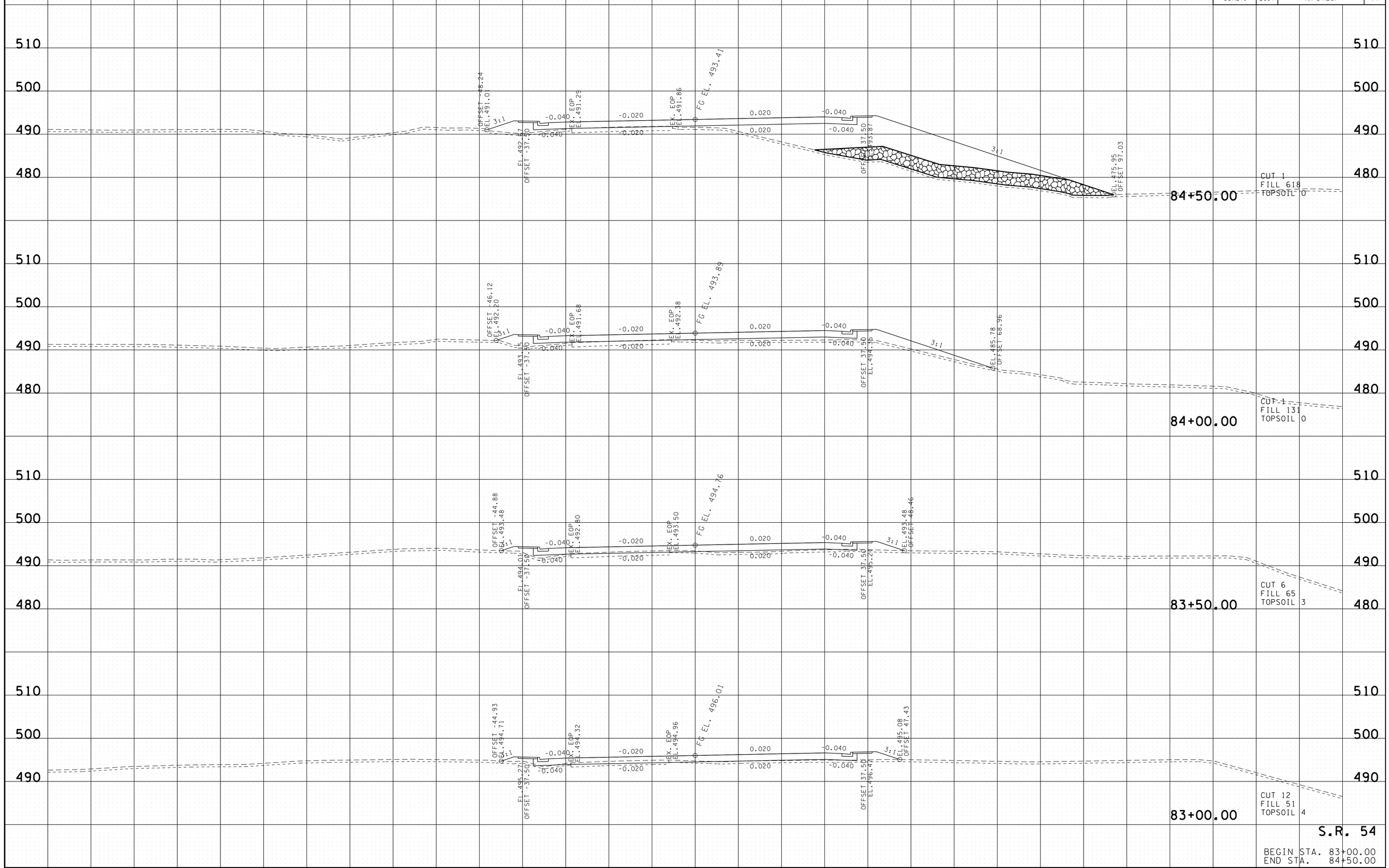
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	67
CONST.	2017	NH-54(26)	74



S.R. 54

BEGIN STA. 83+00.00
END STA. 84+50.00

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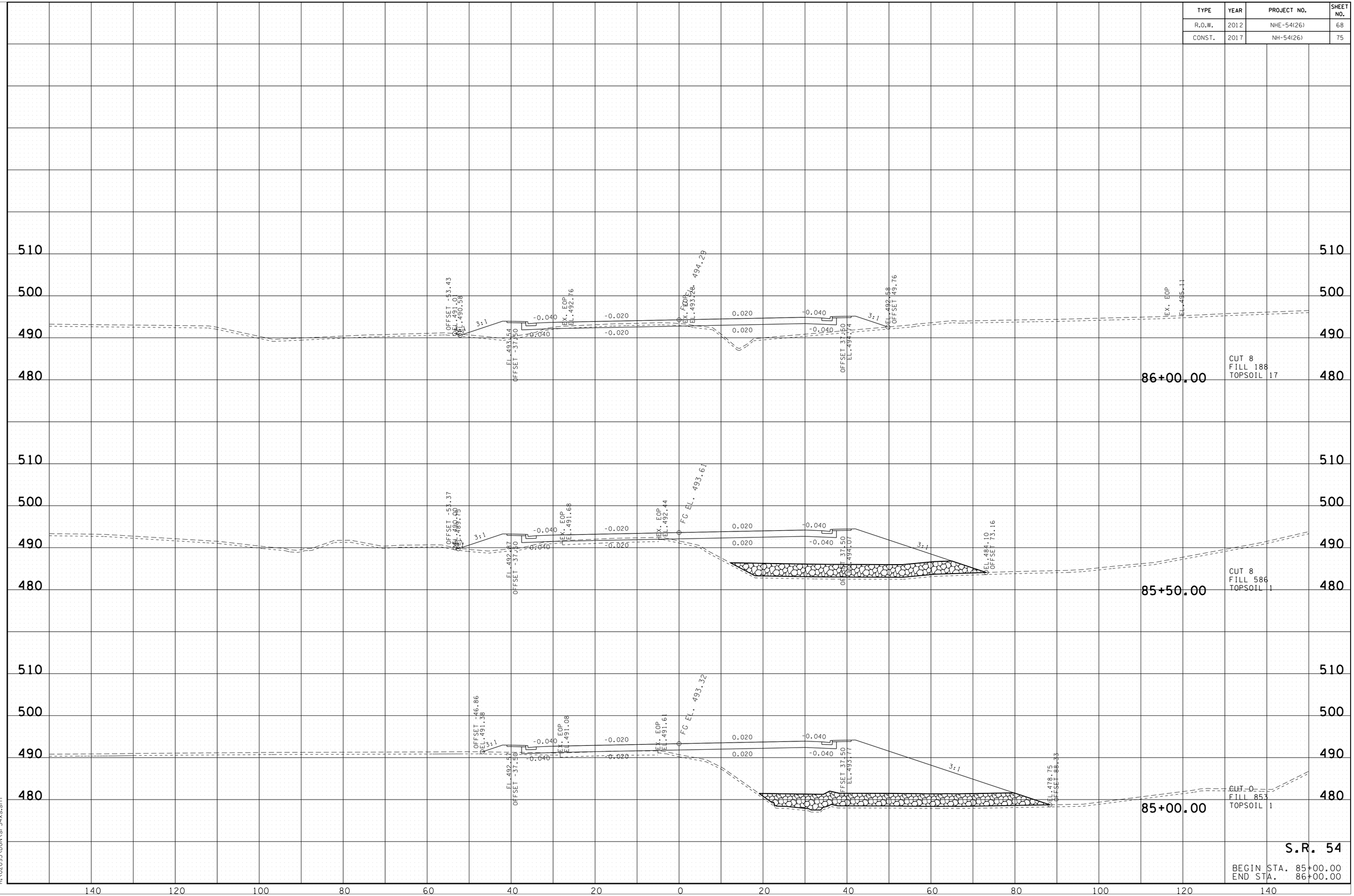
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	68
CONST.	2017	NH-54(26)	75



S.R. 54

BEGIN STA. 85+00.00
END STA. 86+00.00

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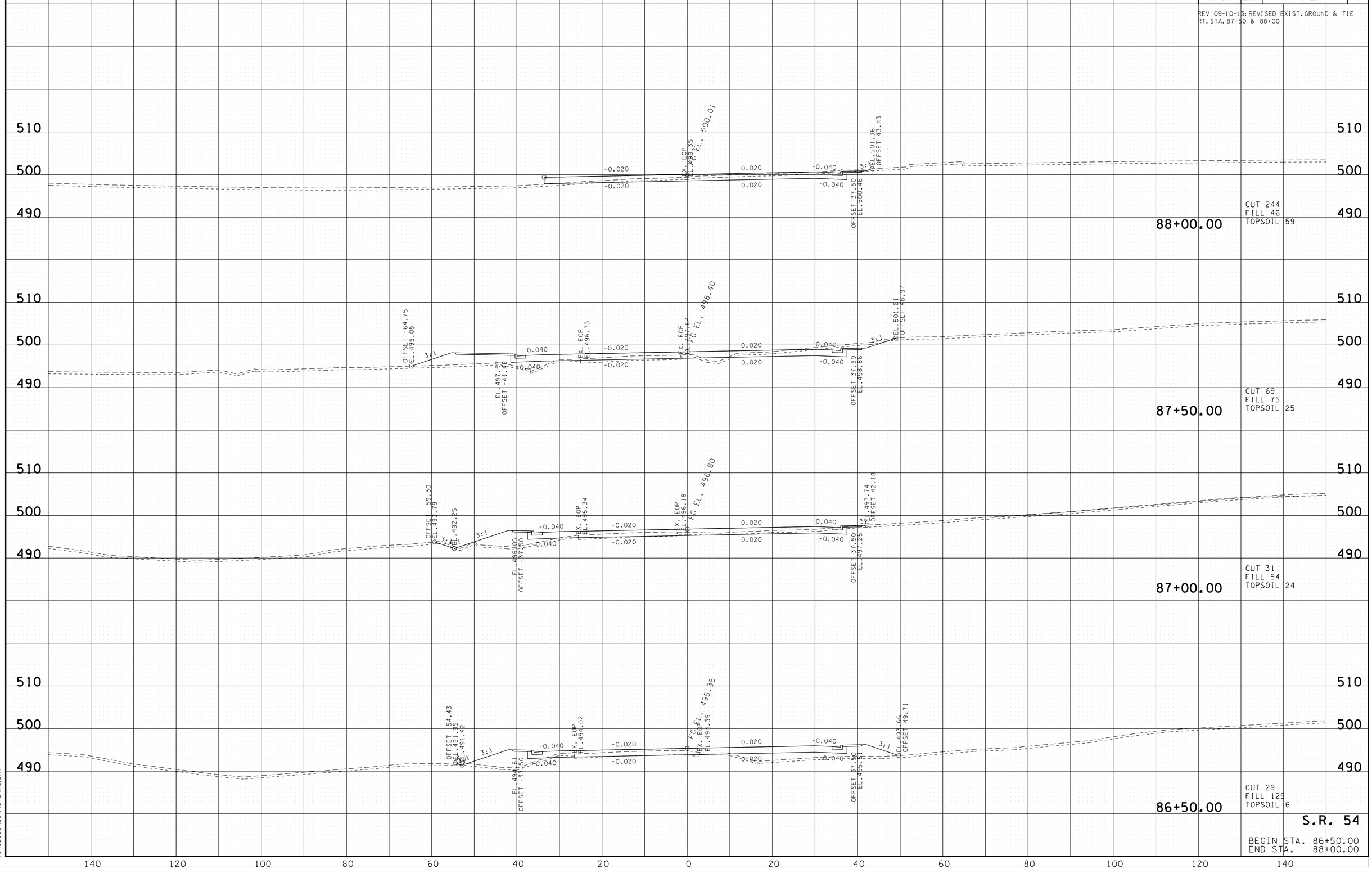
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	69
CONST.	2017	NH-54(26)	76

REV 09-10-13: REVISED EXIST. GROUND & TIE RT. STA. 87+50 & 88+00



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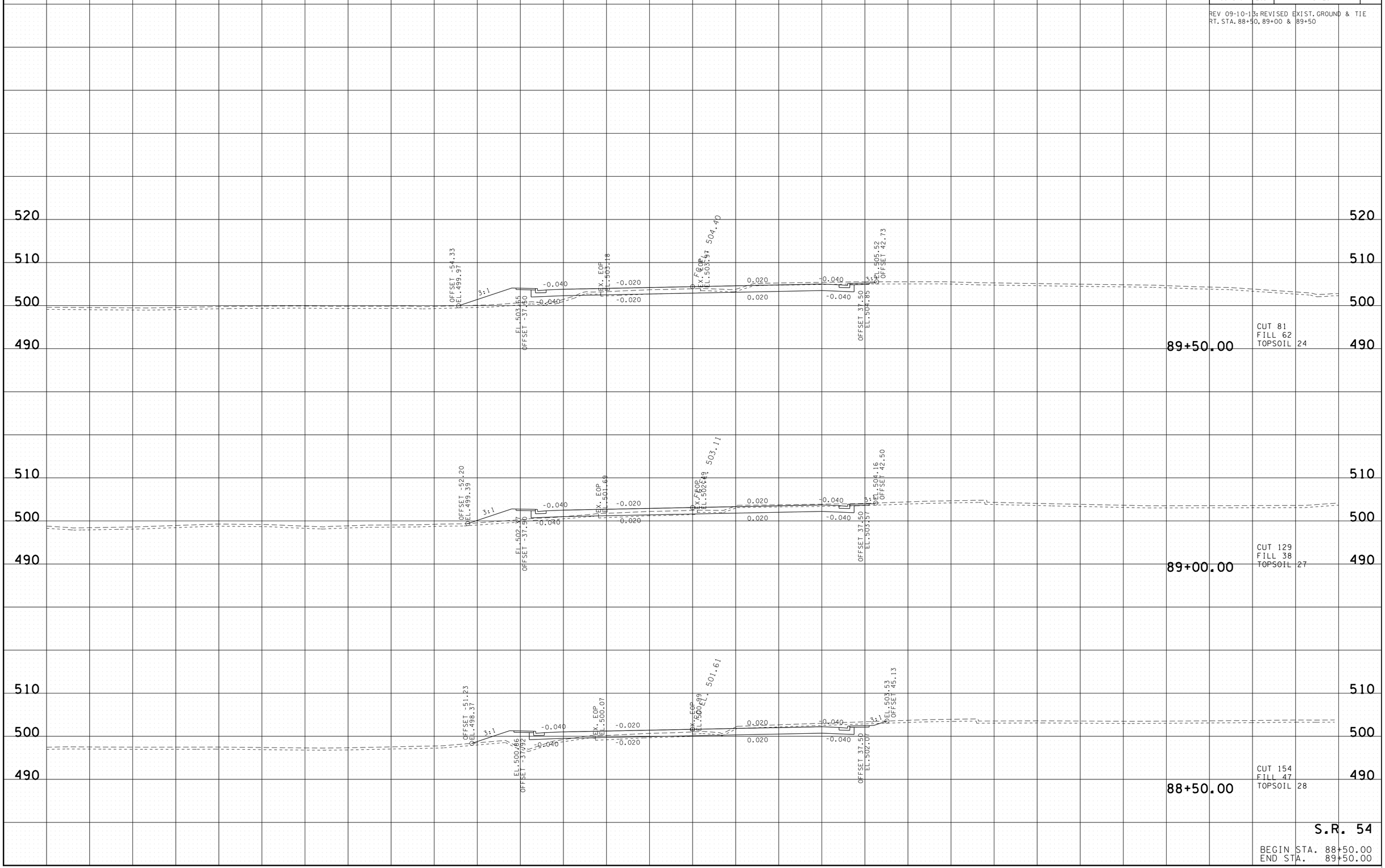
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	70
CONST.	2017	NH-54(26)	77

REV 09-10-13: REVISED EXIST. GROUND & TIE RT. STA. 88+50, 89+00 & 89+50



S.R. 54

BEGIN STA. 88+50.00
END STA. 89+50.00

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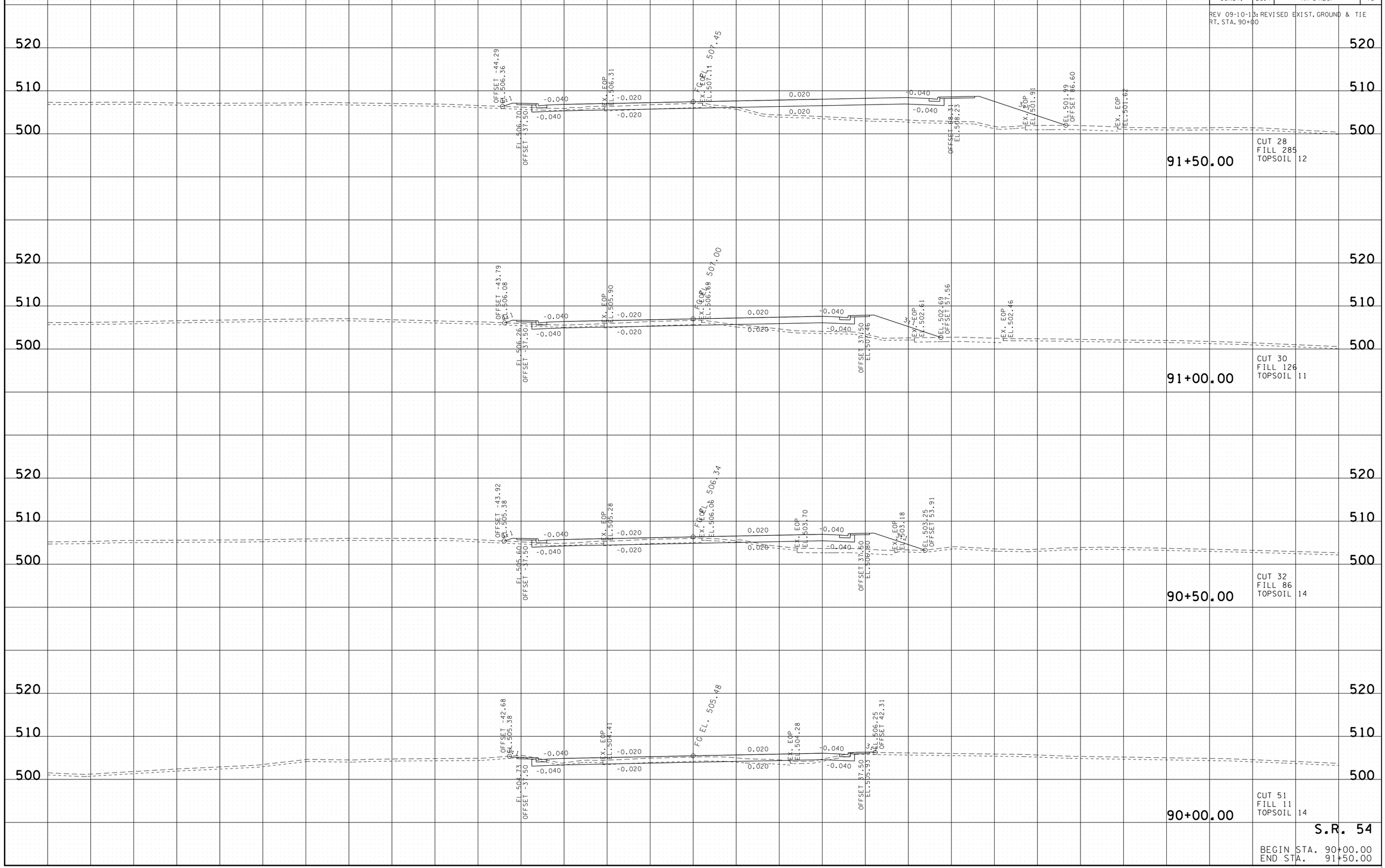
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	71
CONST.	2017	NH-54(26)	78

REV 09-10-13: REVISED EXIST. GROUND & TIE RT. STA. 90+00



S.R. 54

BEGIN STA. 90+00.00
END STA. 91+50.00

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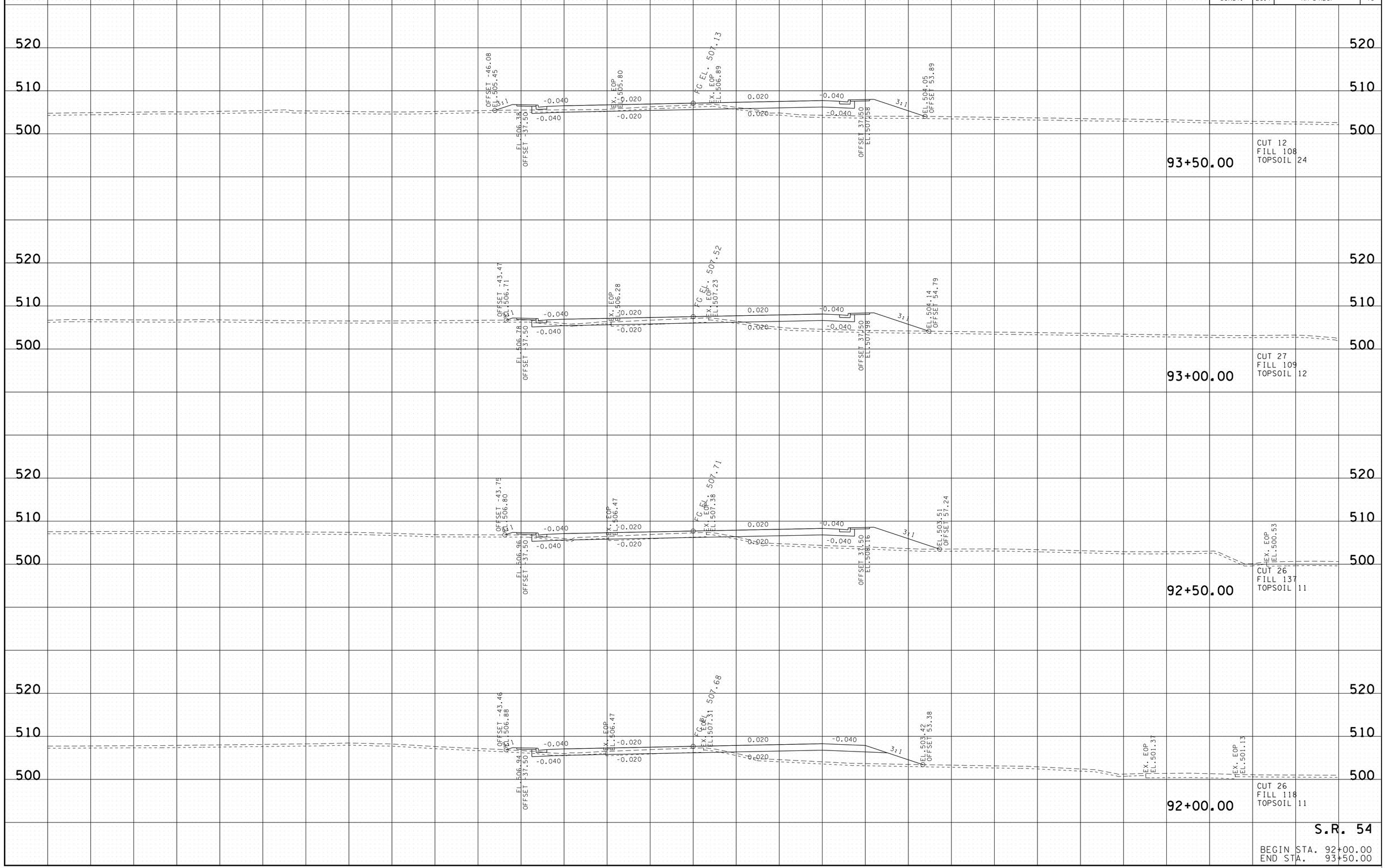
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	72
CONST.	2017	NH-54(26)	79



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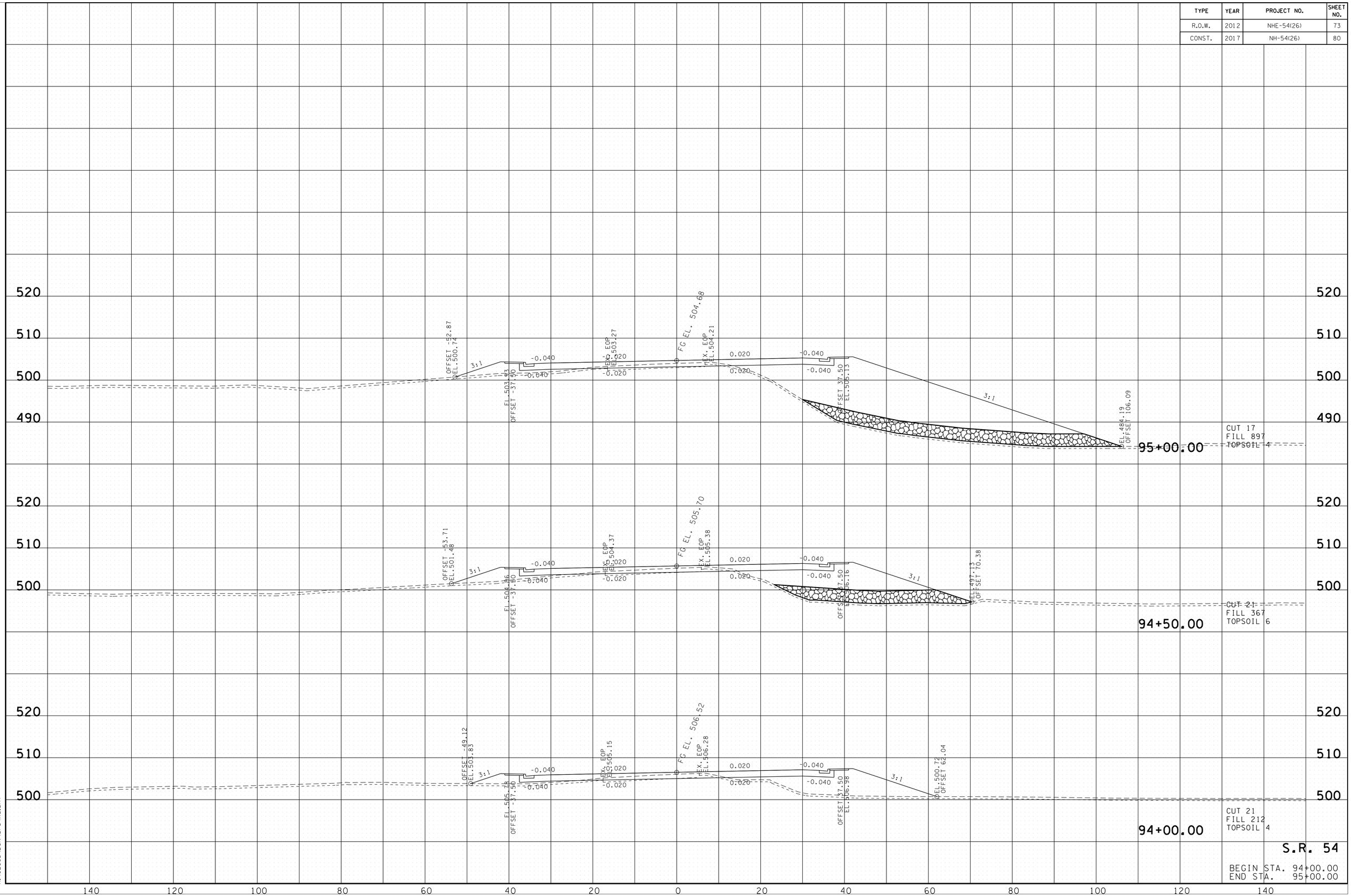
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	73
CONST.	2017	NH-54(26)	80



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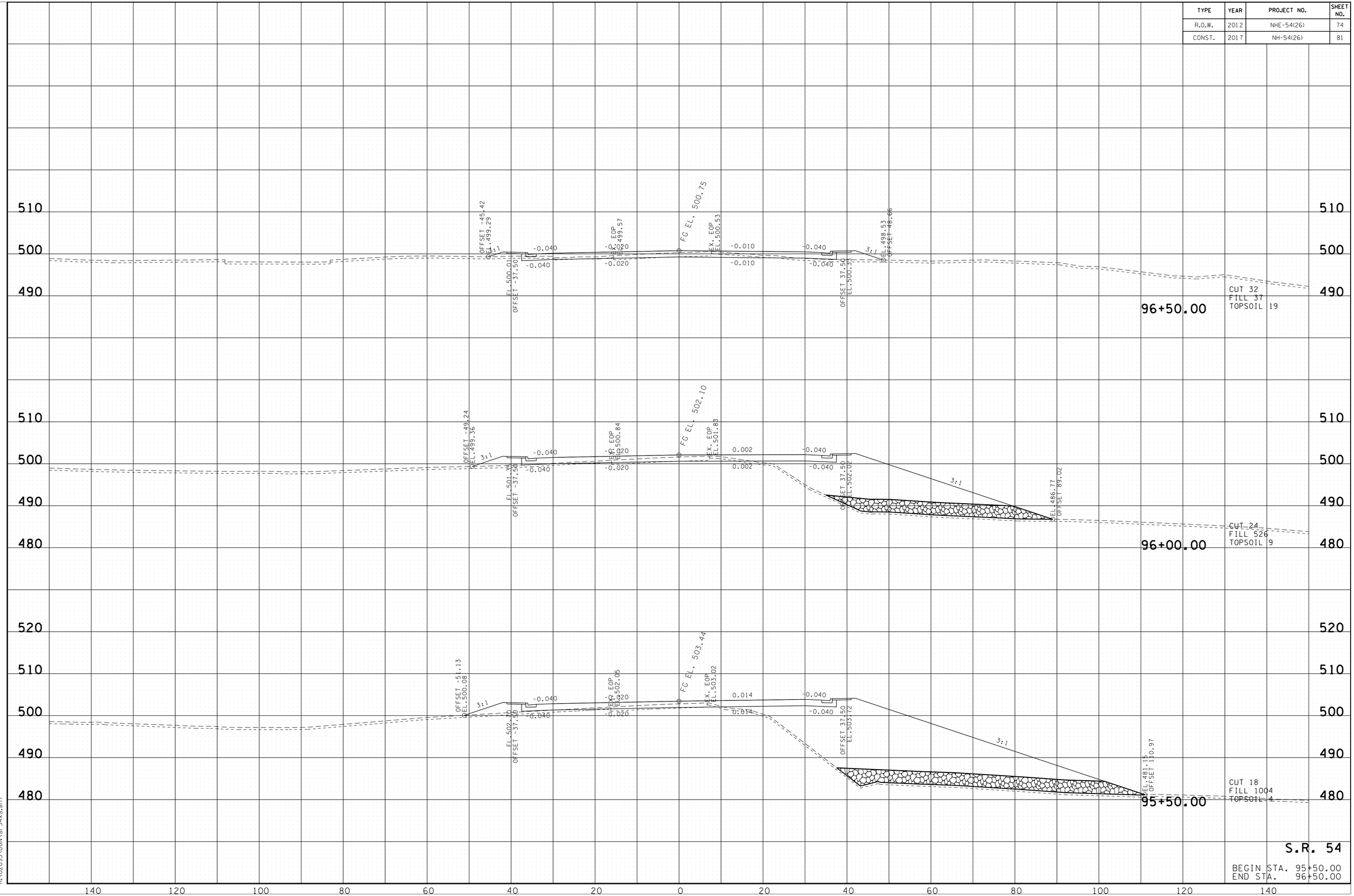
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	74
CONST.	2017	NH-54(26)	81



S.R. 54

BEGIN STA. 95+50.00
END STA. 96+50.00

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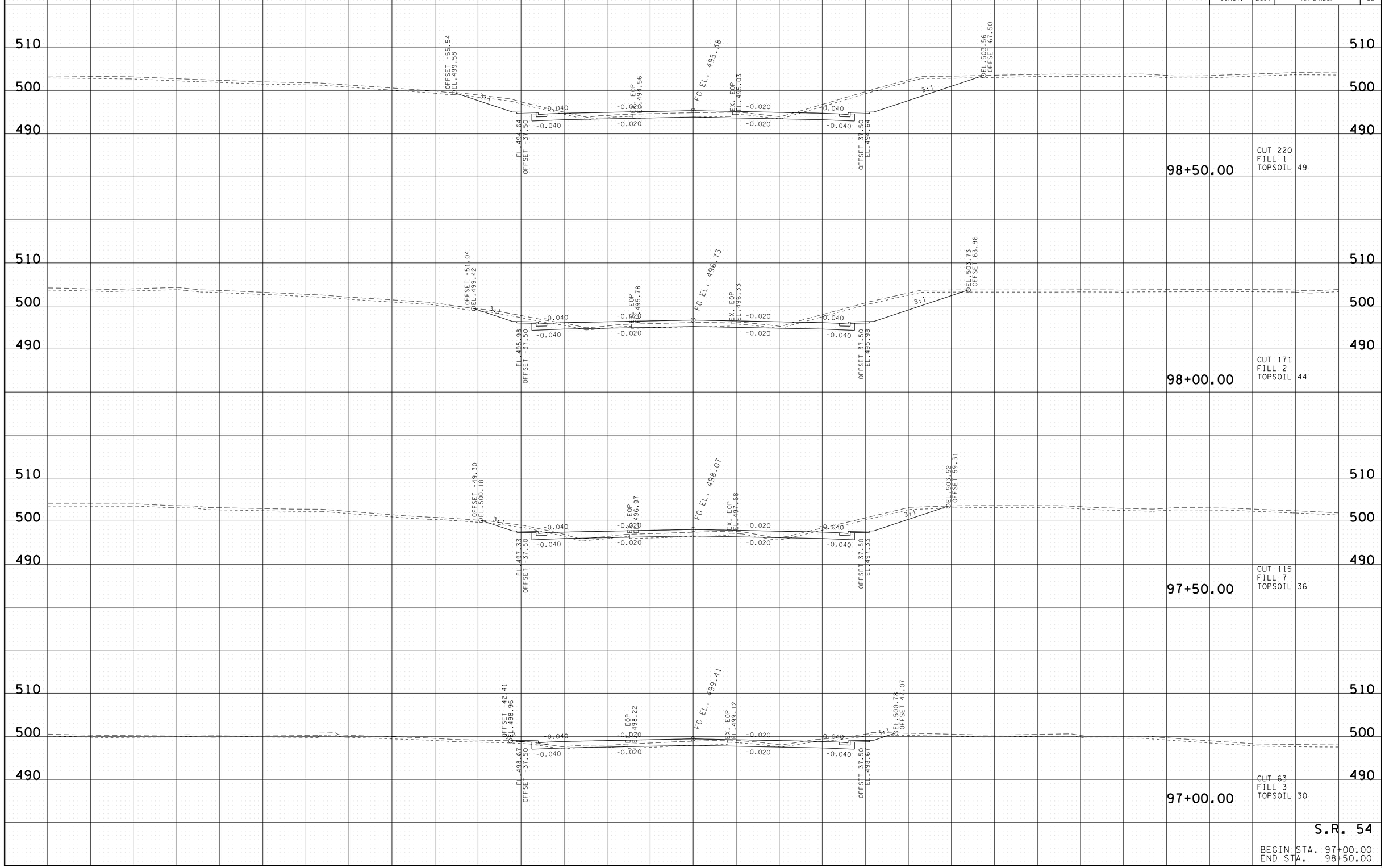
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	75
CONST.	2017	NH-54(26)	82



S.R. 54

BEGIN STA. 97+00.00
END STA. 98+50.00

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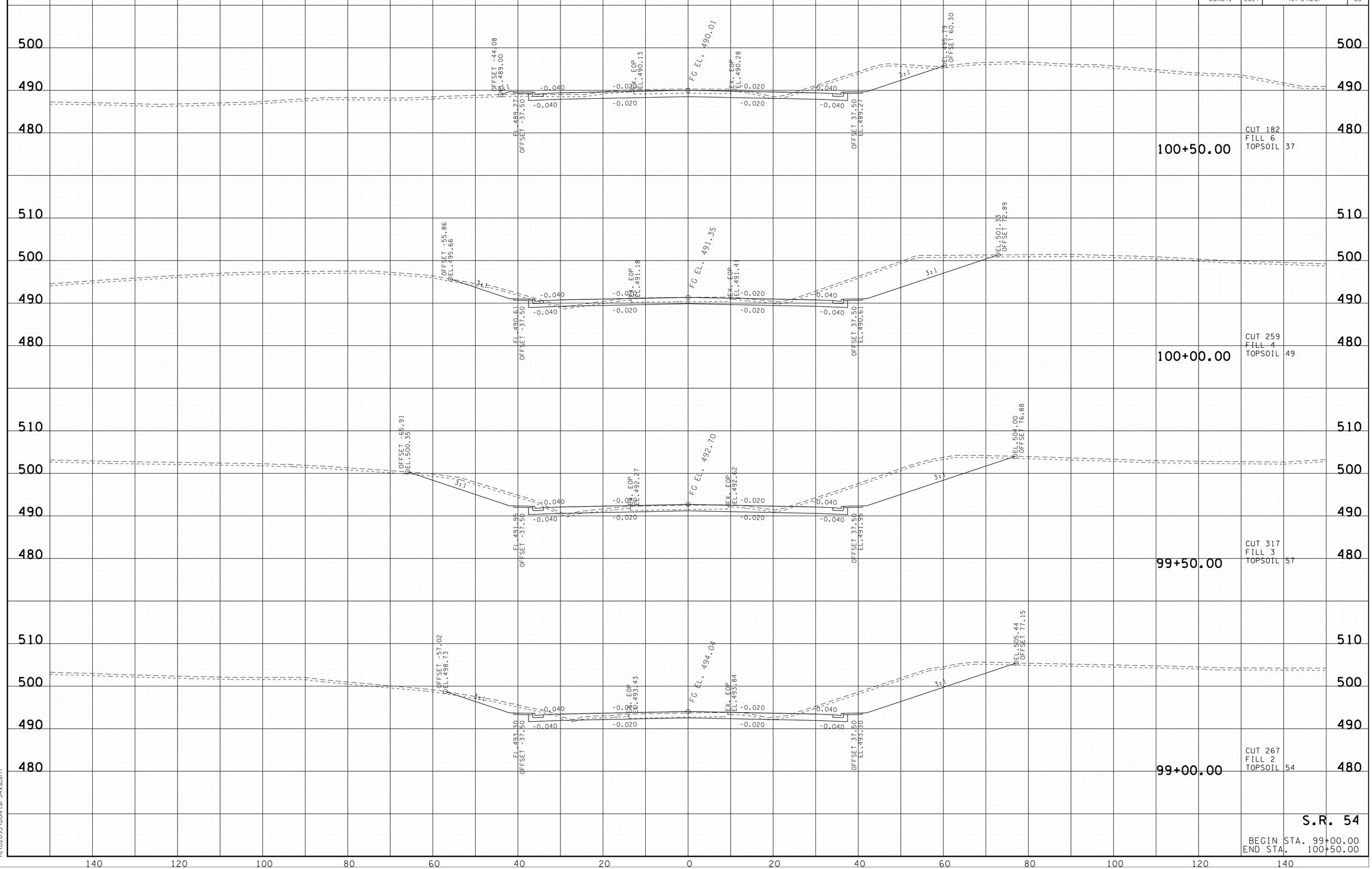
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	76
CONST.	2017	NH-54(26)	83



S.R. 54

BEGIN STA. 99+00.00
END STA. 100+50.00

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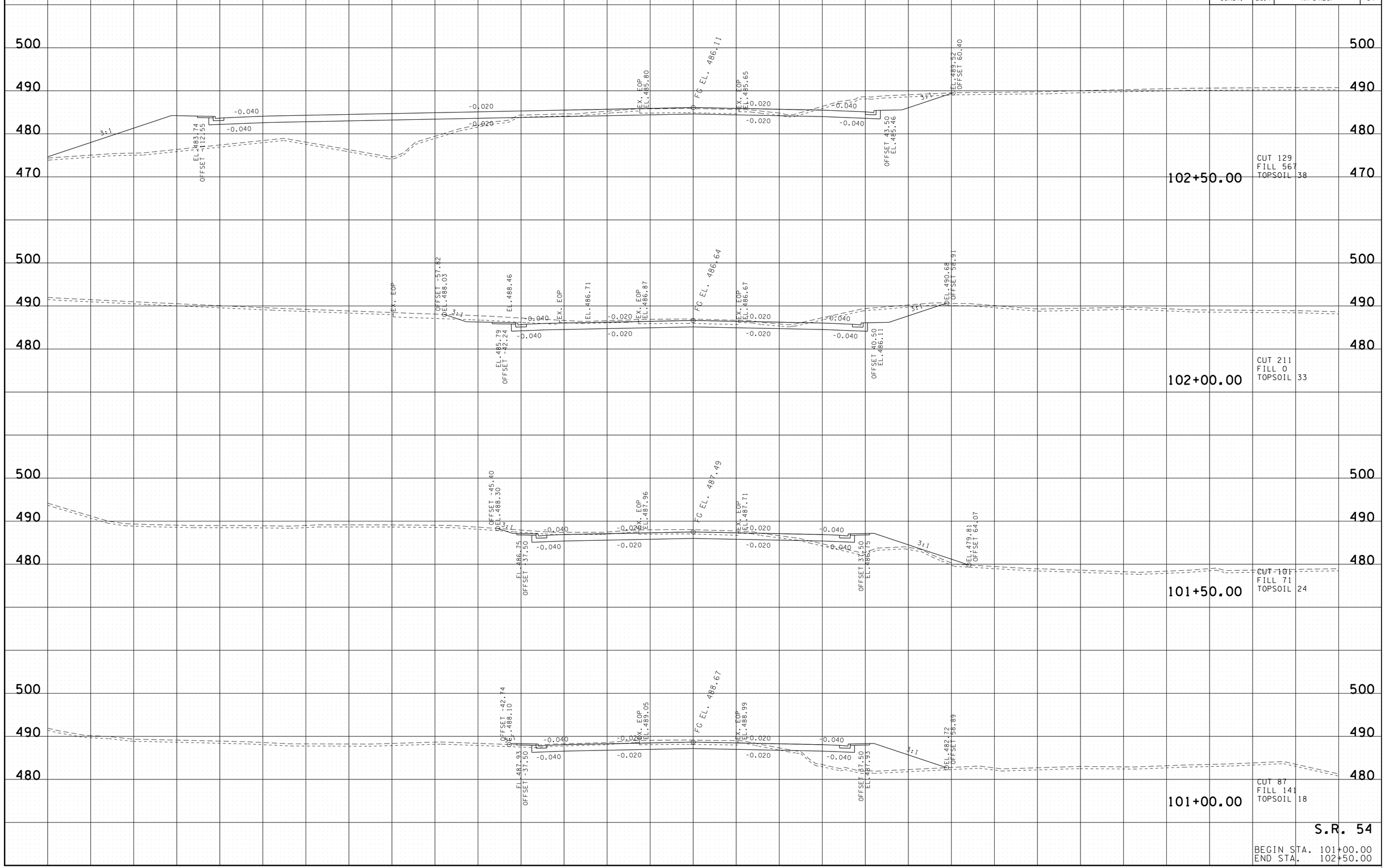
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	77
CONST.	2017	NH-54(26)	84



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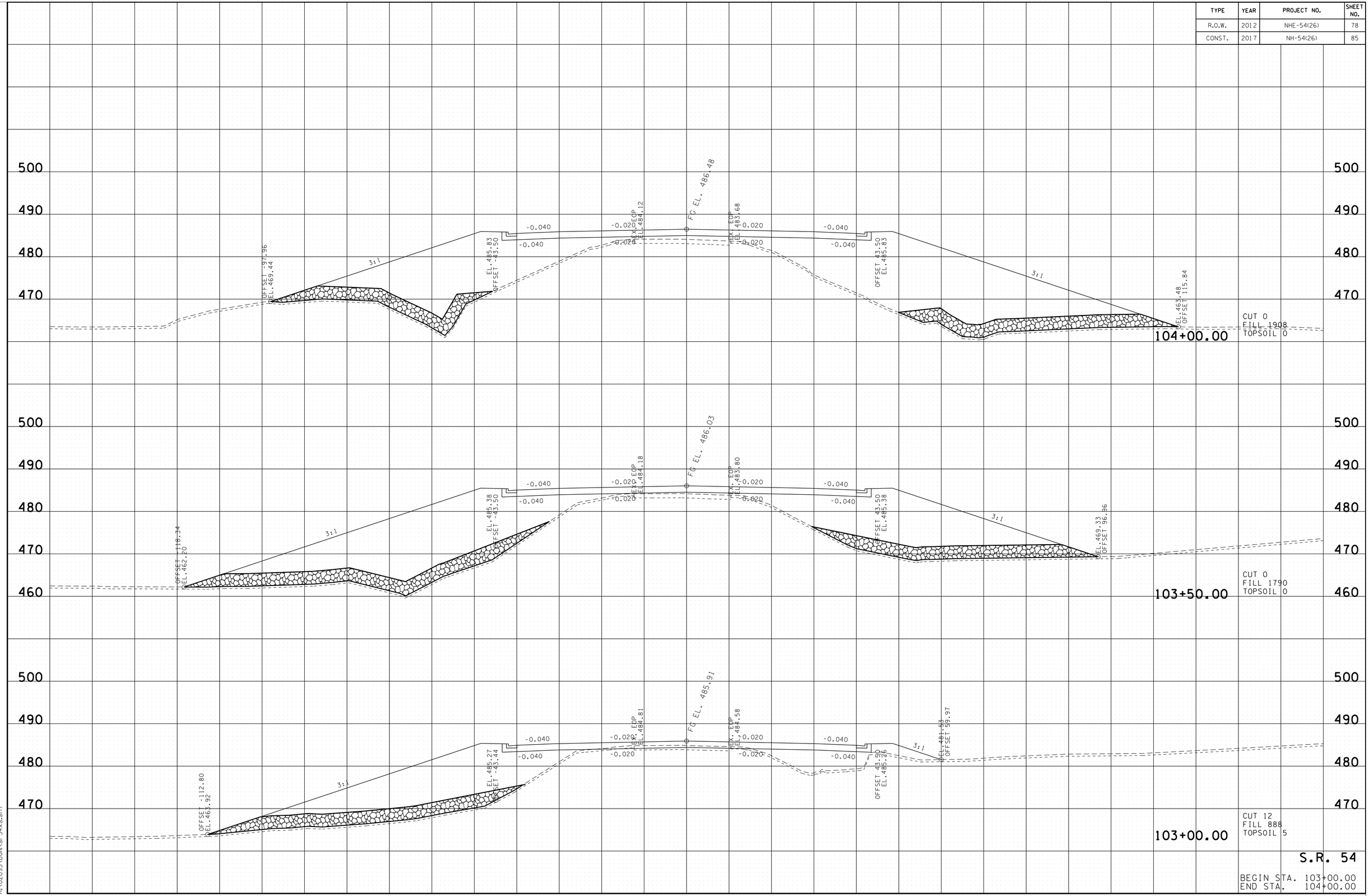
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	78
CONST.	2017	NH-54(26)	85



S.R. 54

BEGIN STA. 103+00.00
END STA. 104+00.00

7/25/2016 3:12:00 PM
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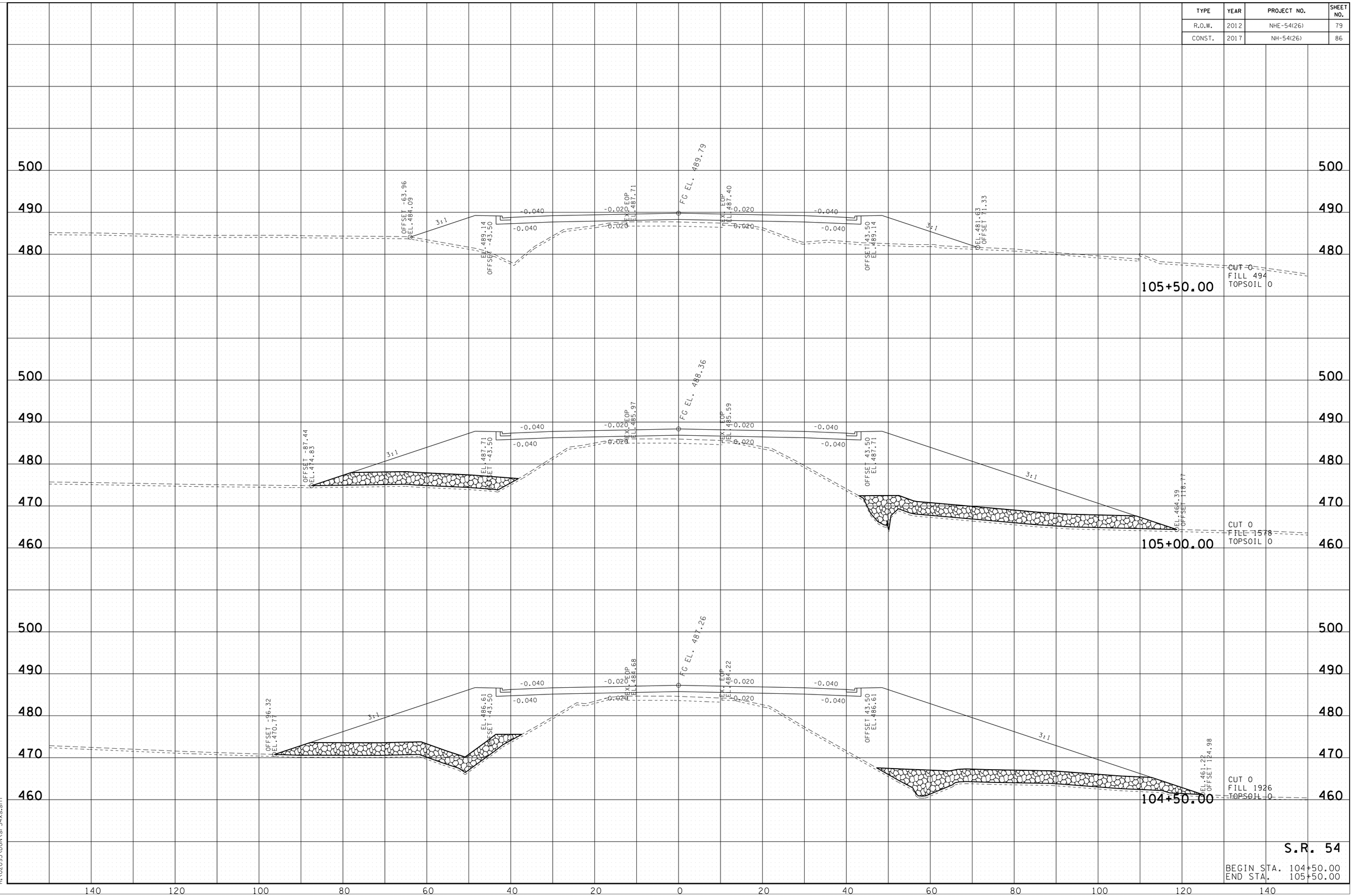
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	79
CONST.	2017	NH-54(26)	86



S.R. 54

BEGIN STA. 104+50.00
END STA. 105+50.00

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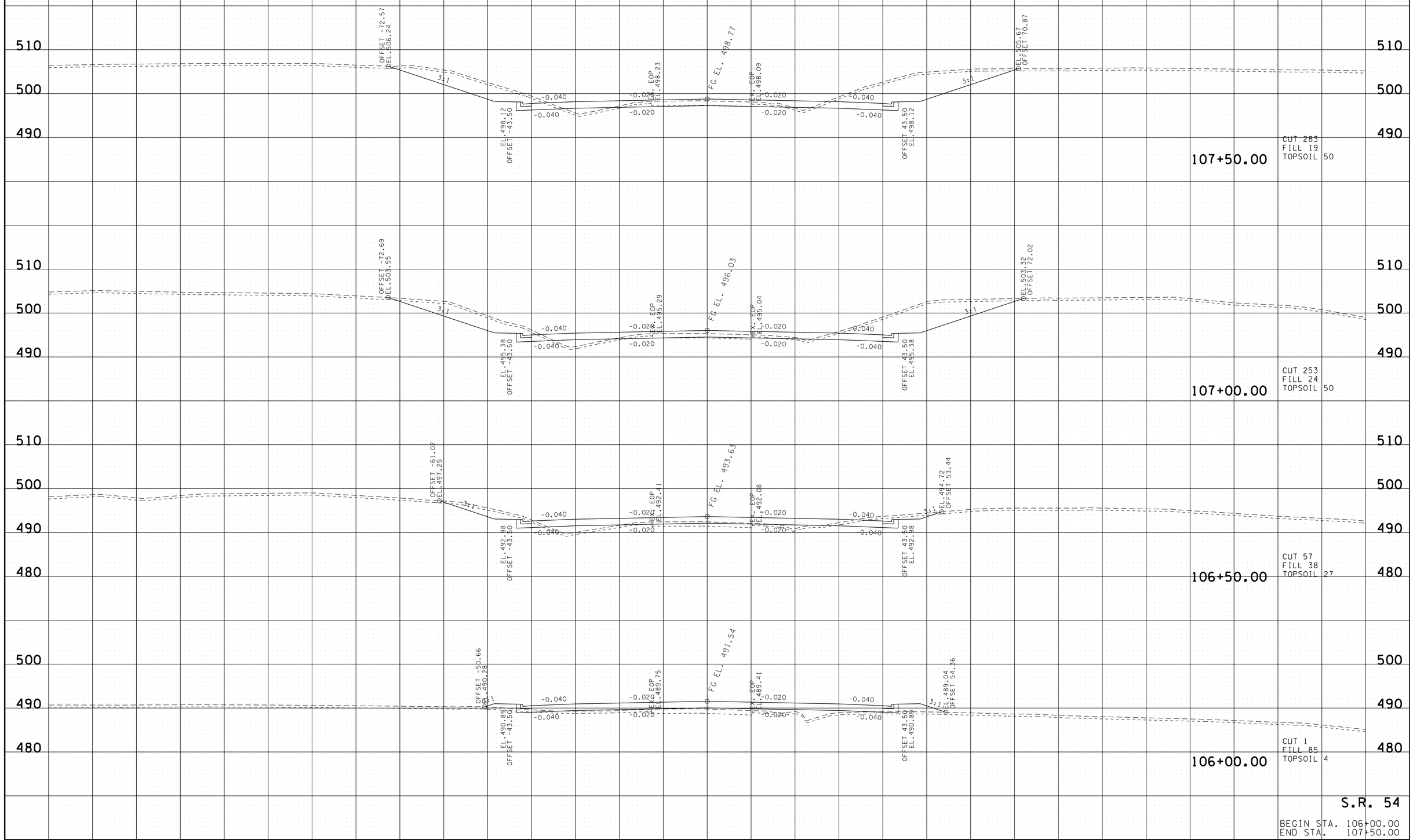
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	80
CONST.	2017	NH-54(26)	87



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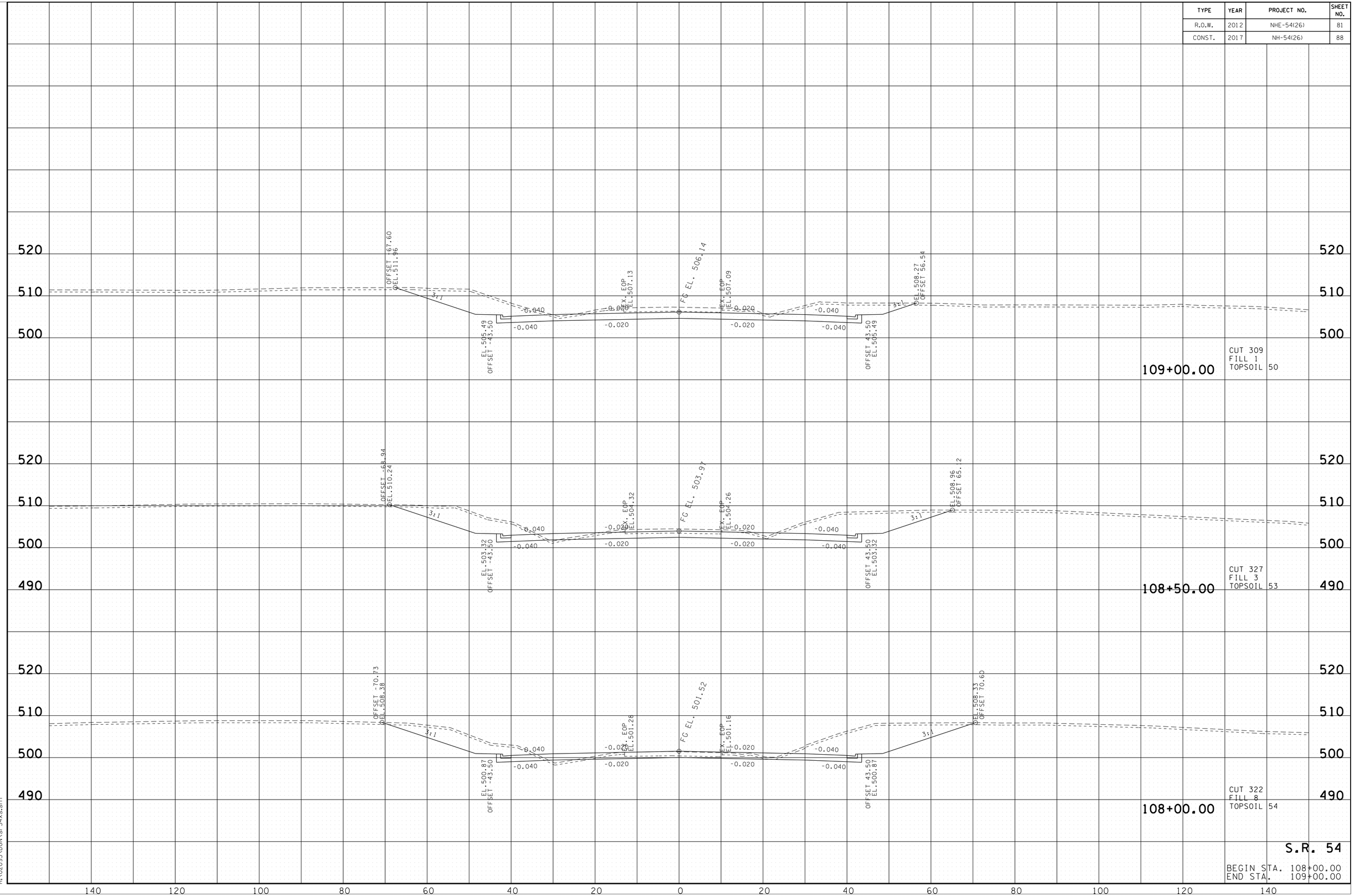
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	81
CONST.	2017	NH-54(26)	88



S.R. 54

BEGIN STA. 108+00.00
END STA. 109+00.00

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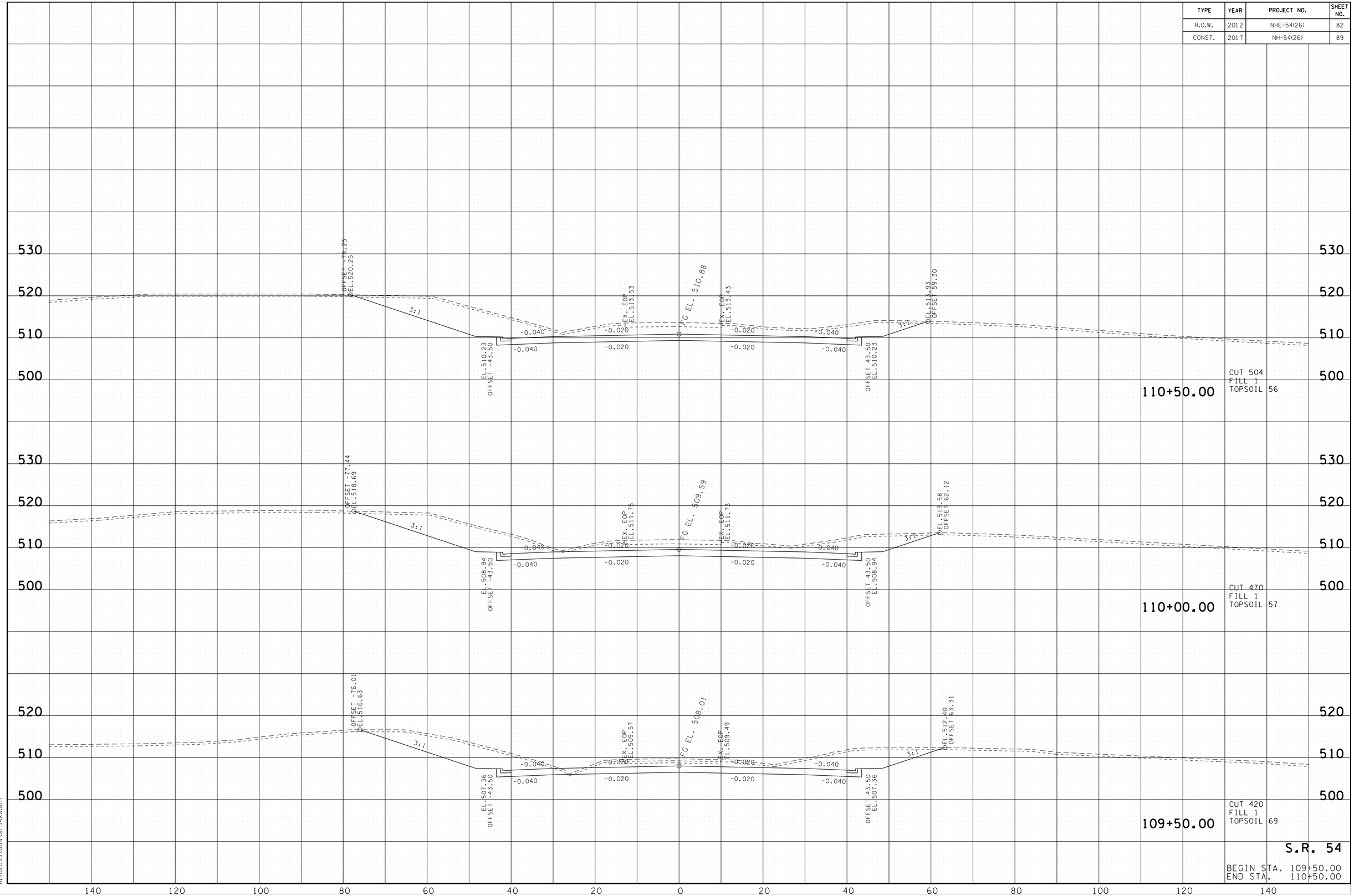
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	82
CONST.	2017	NH-54(26)	89



S.R. 54

BEGIN STA. 109+50.00
END STA. 110+50.00

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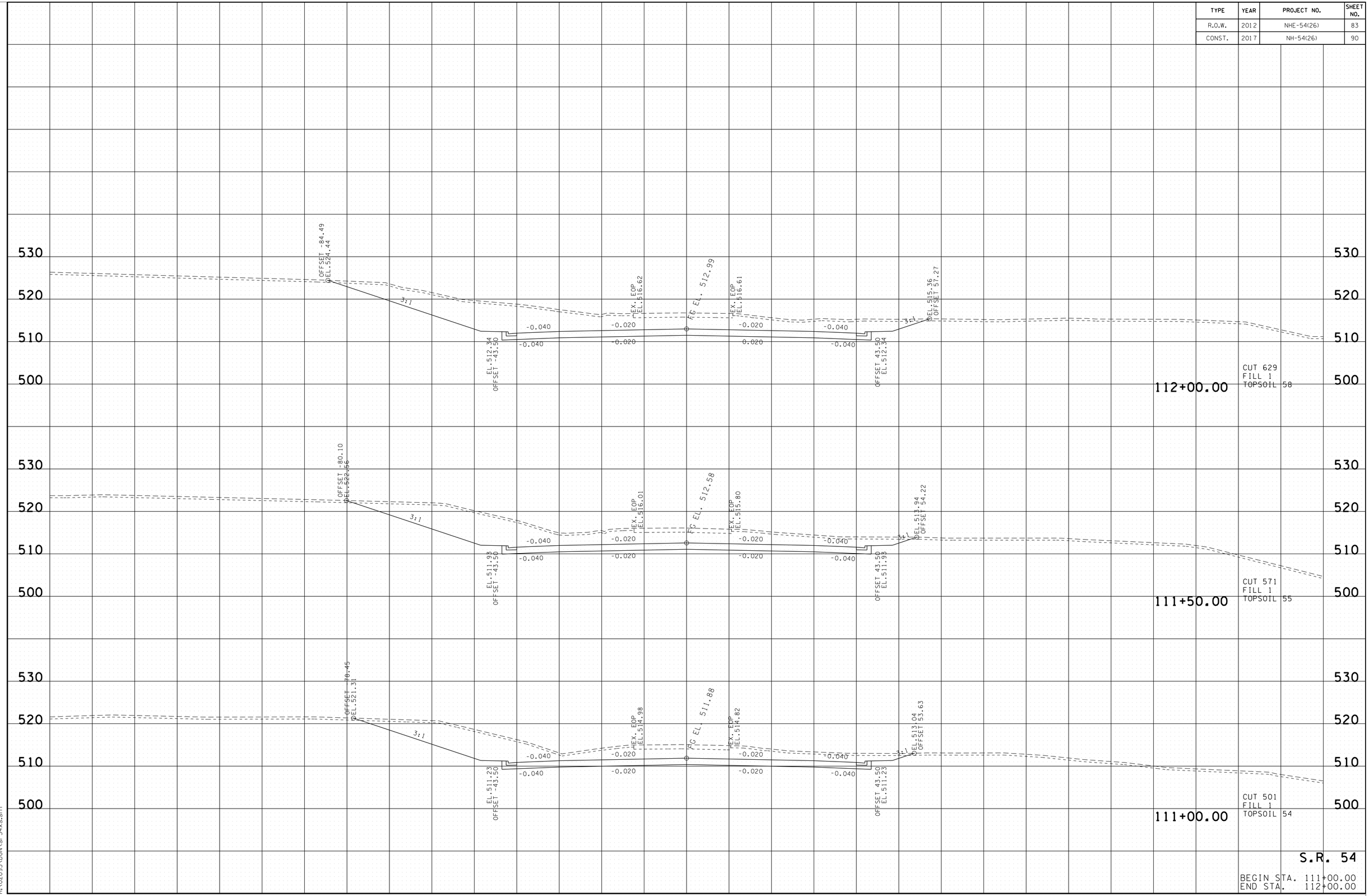
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	83
CONST.	2017	NH-54(26)	90



S.R. 54

BEGIN STA. 111+00.00
END STA. 112+00.00

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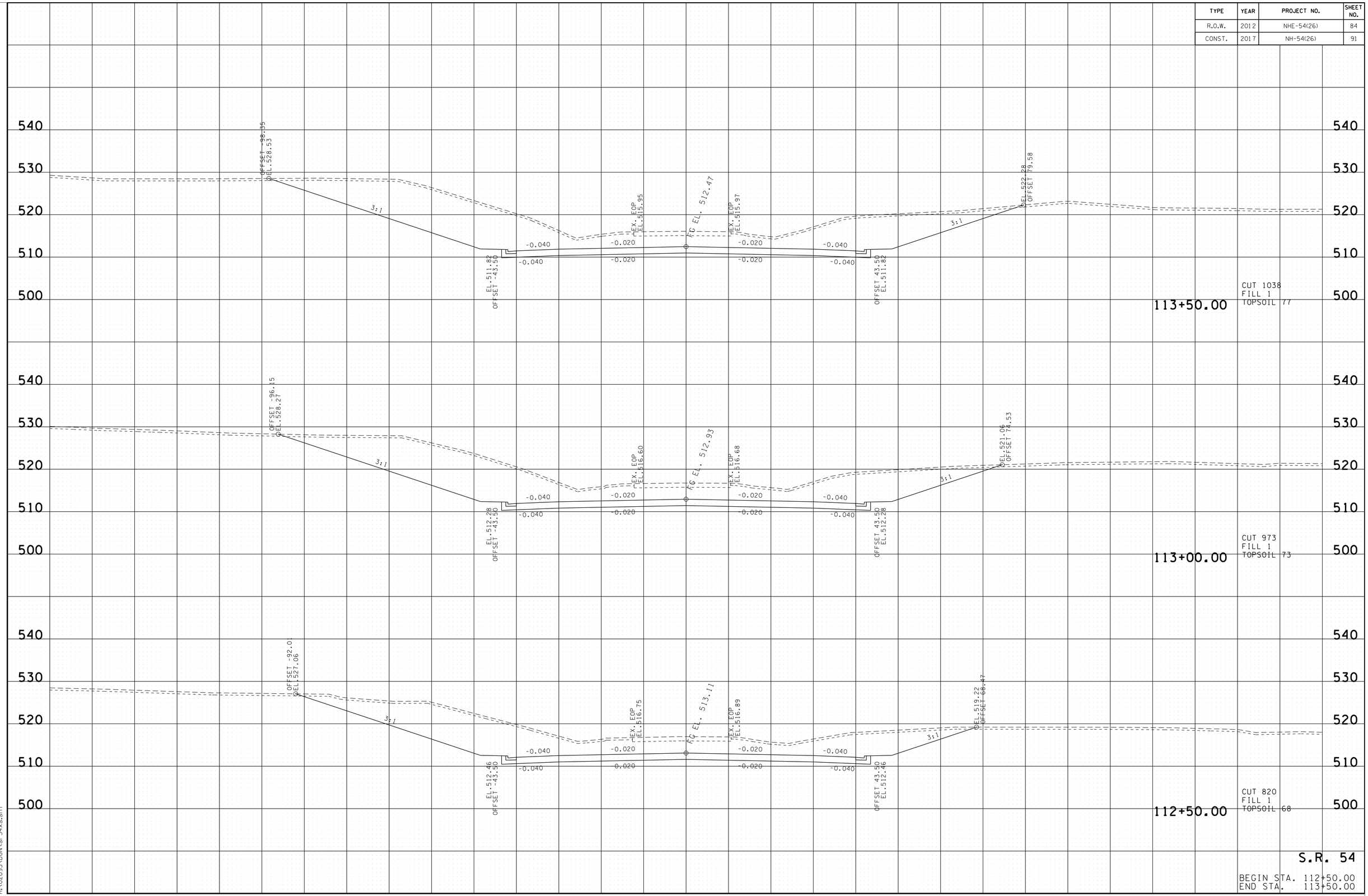
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	84
CONST.	2017	NH-54(26)	91



S.R. 54

BEGIN STA. 112+50.00
END STA. 113+50.00

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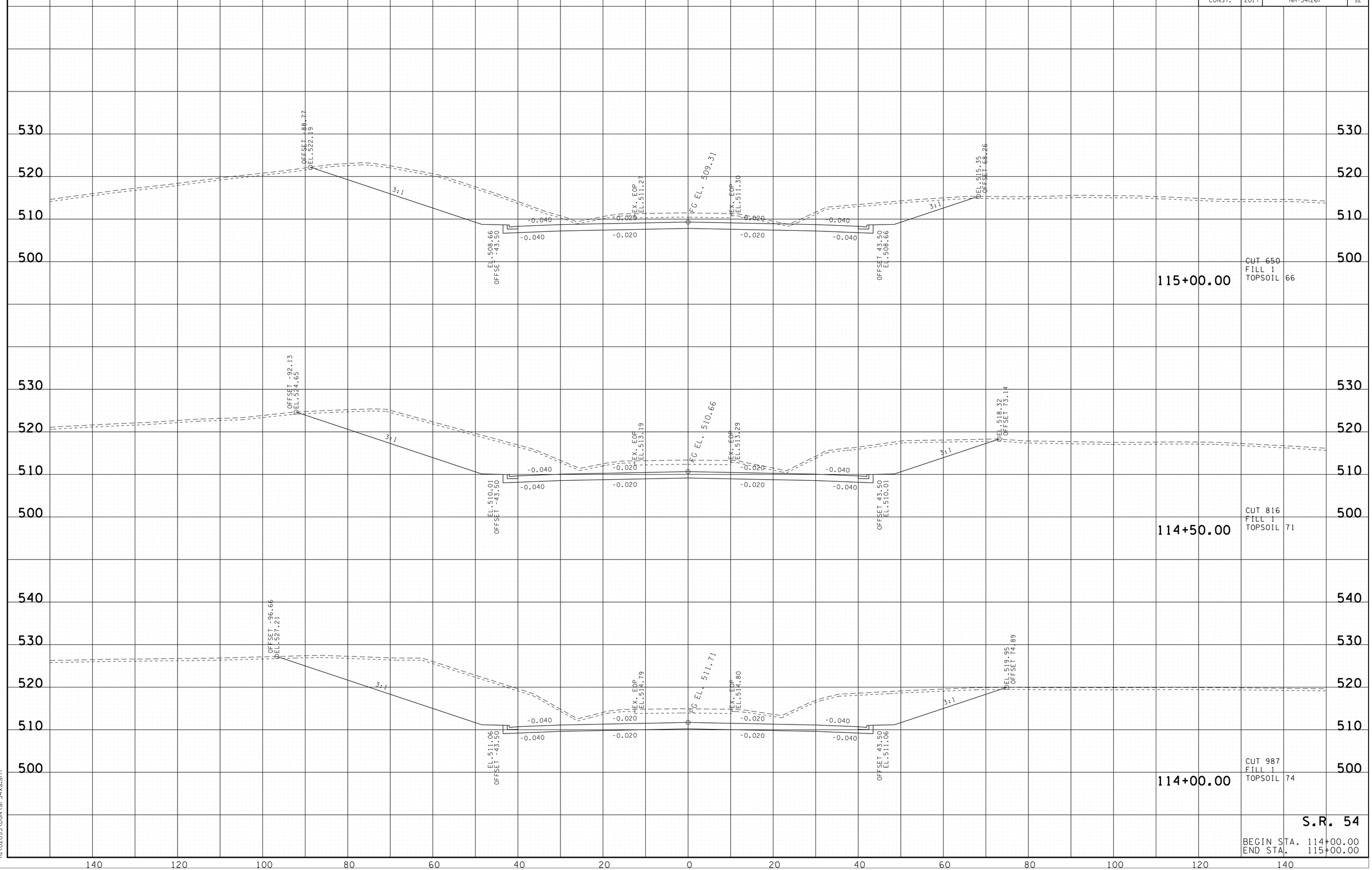
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	85
CONST.	2017	NH-54(26)	92



S.R. 54

BEGIN STA. 114+00.00
END STA. 115+00.00

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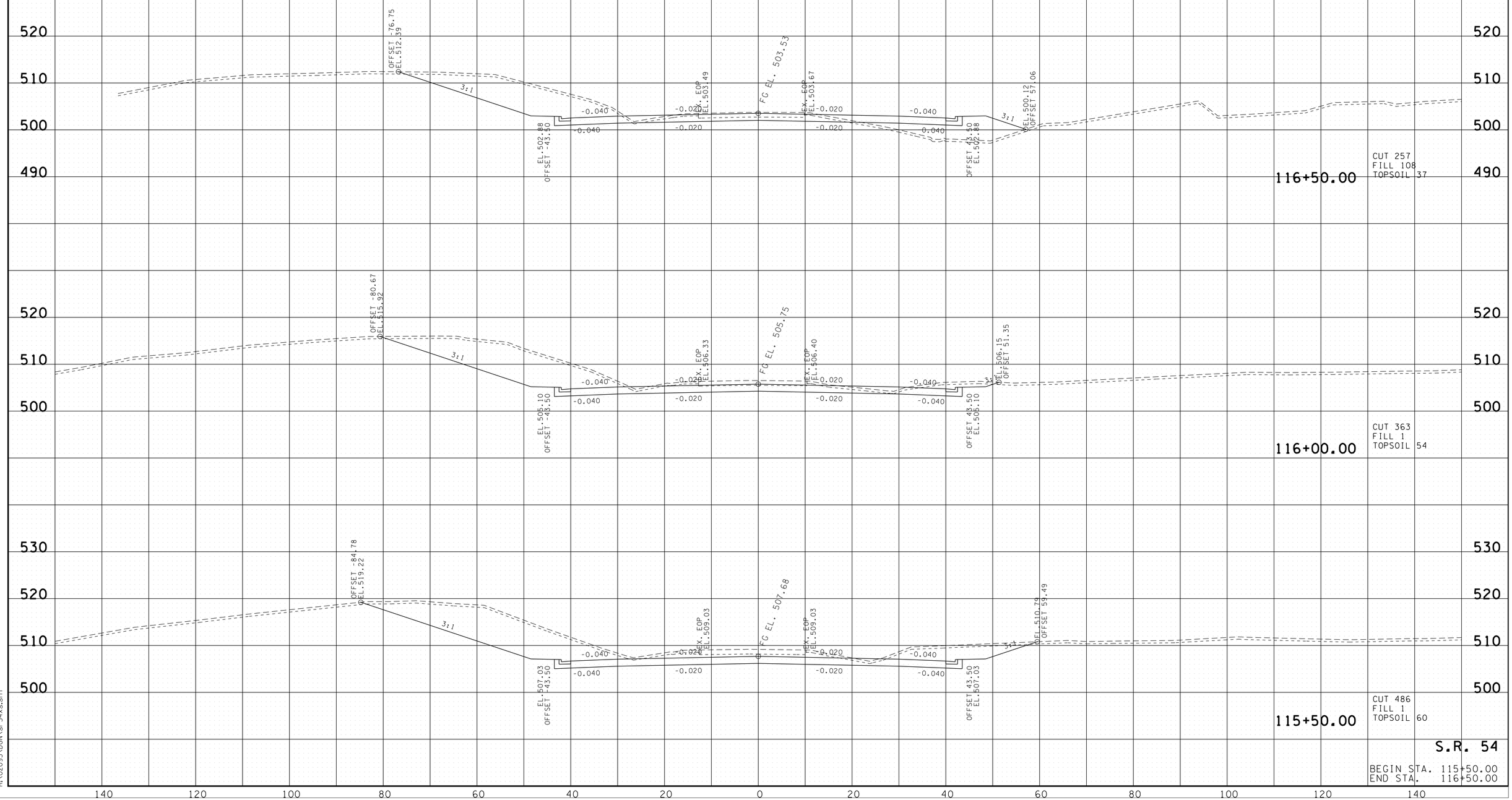
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	86
CONST.	2017	NH-54(26)	93



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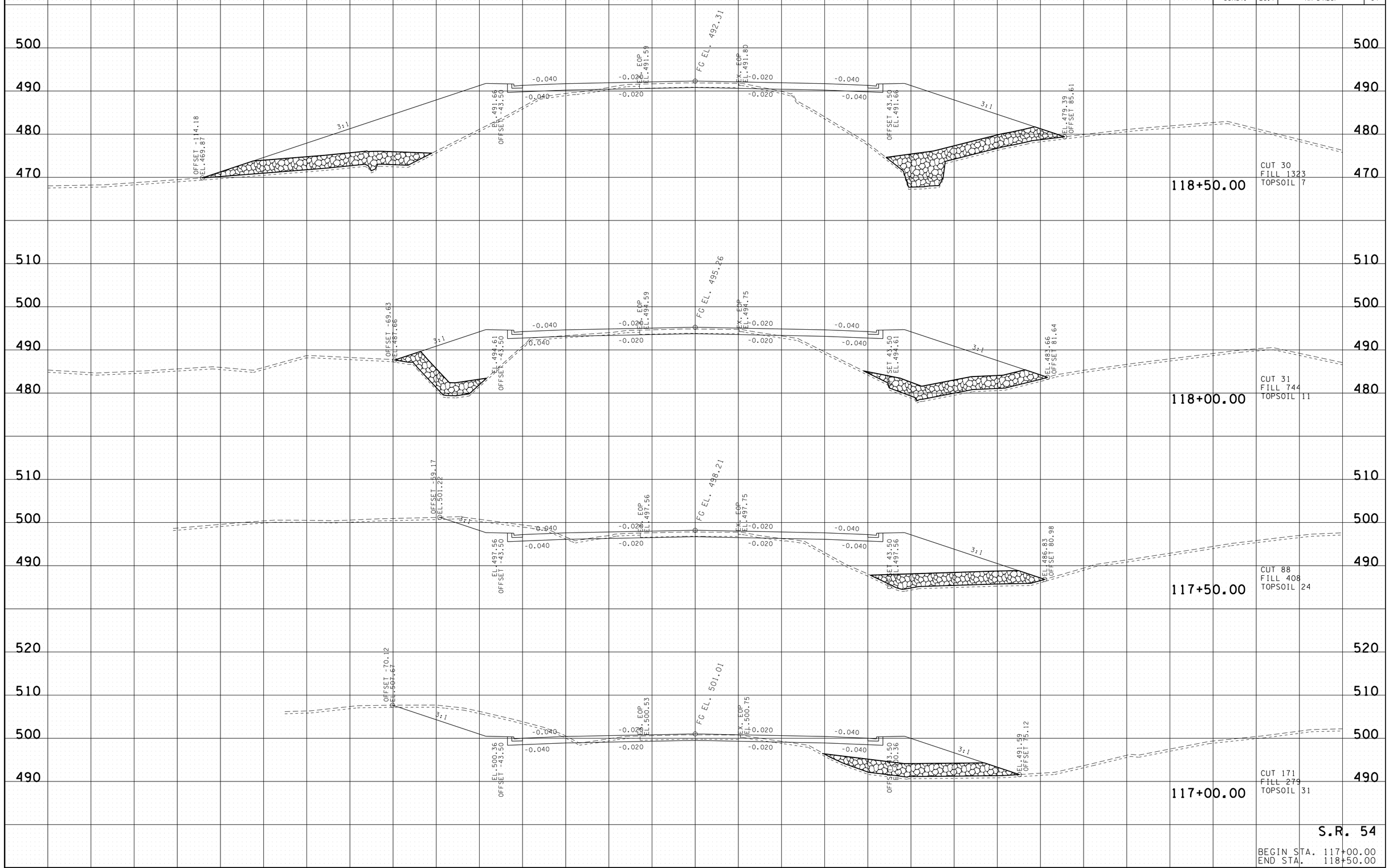
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	87
CONST.	2017	NH-54(26)	94



S.R. 54

BEGIN STA. 117+00.00
END STA. 118+50.00

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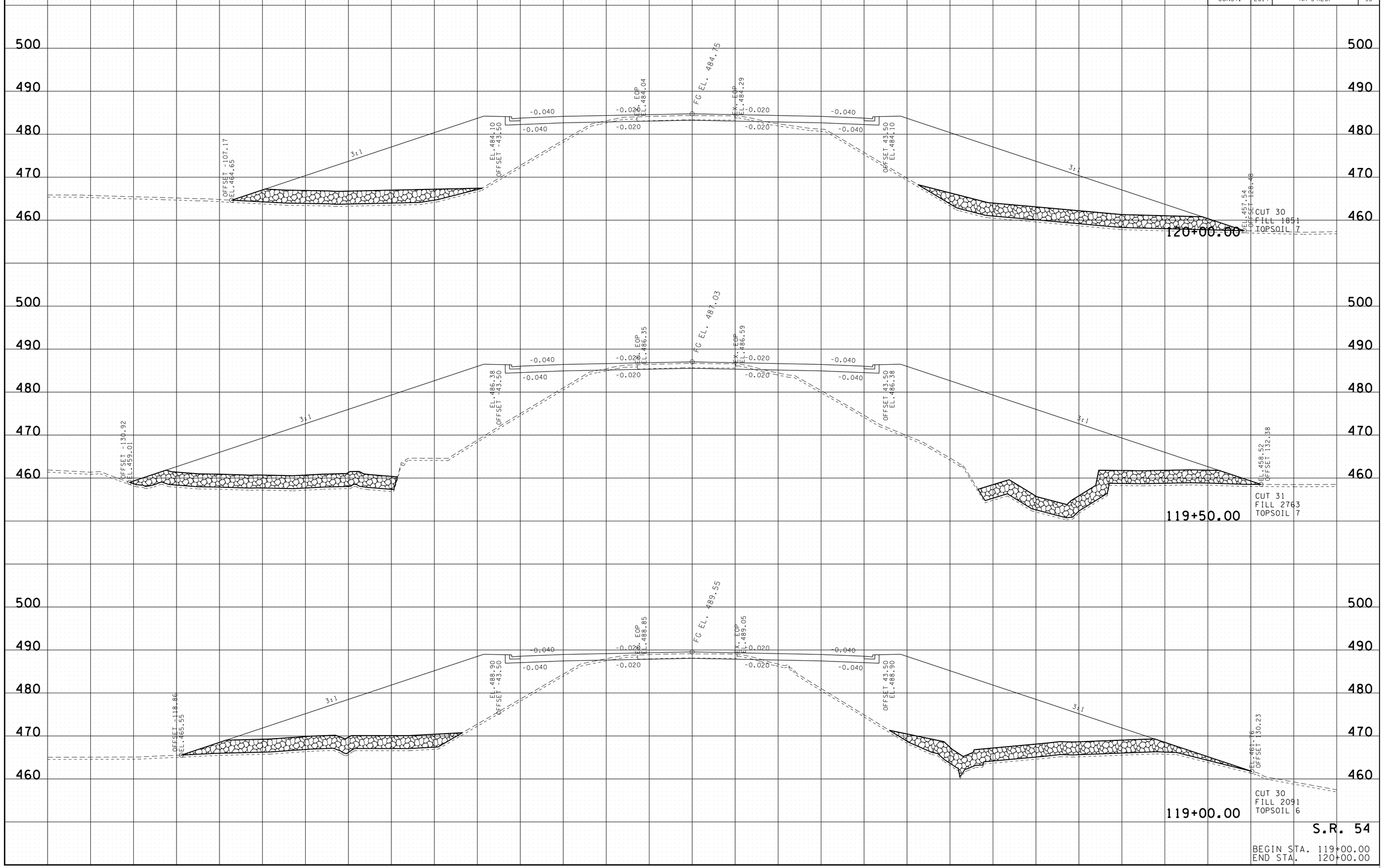
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	88
CONST.	2017	NH-54(26)	95



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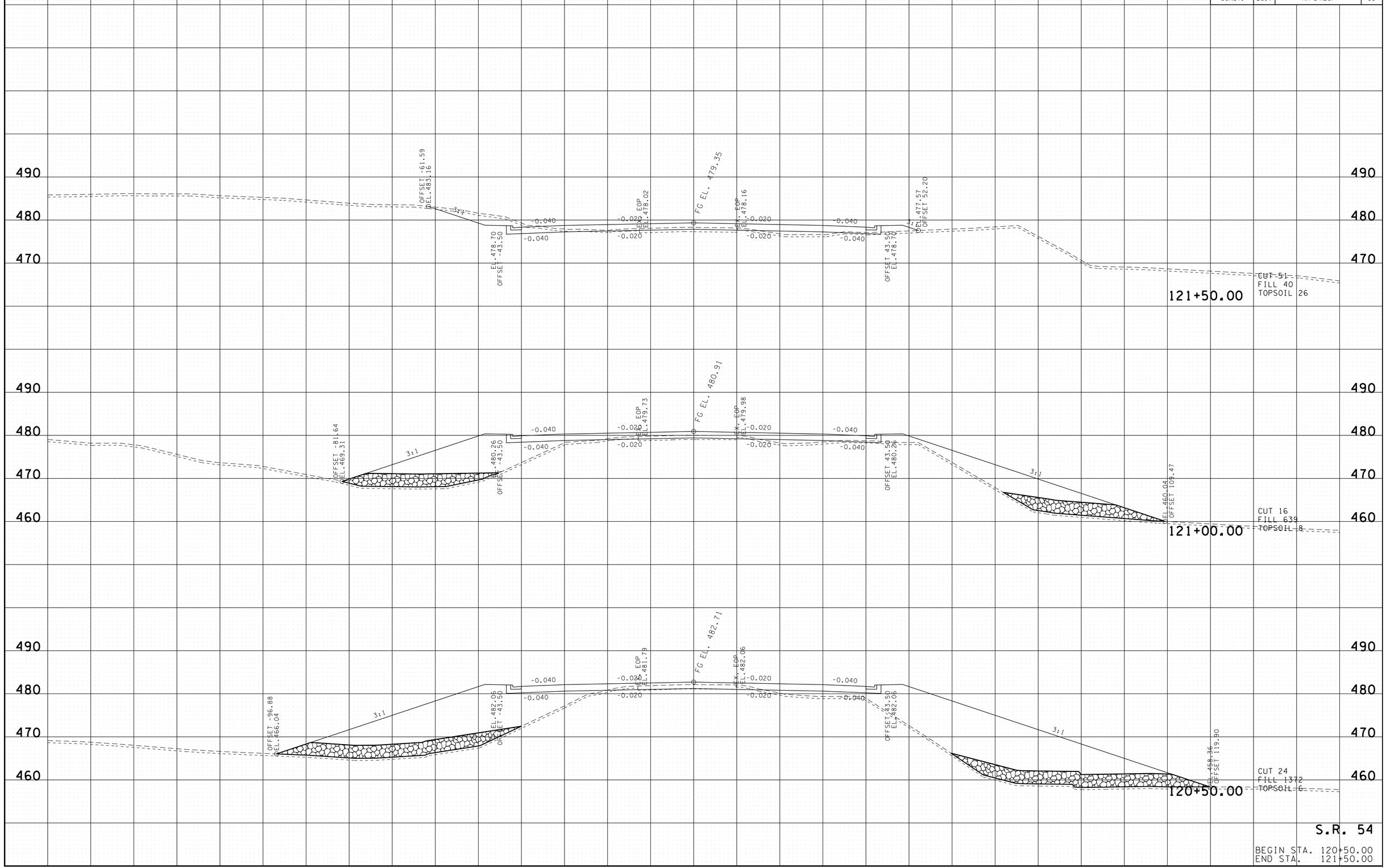
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	89
CONST.	2017	NH-54(26)	96



S.R. 54

BEGIN STA. 120+50.00
END STA. 121+50.00

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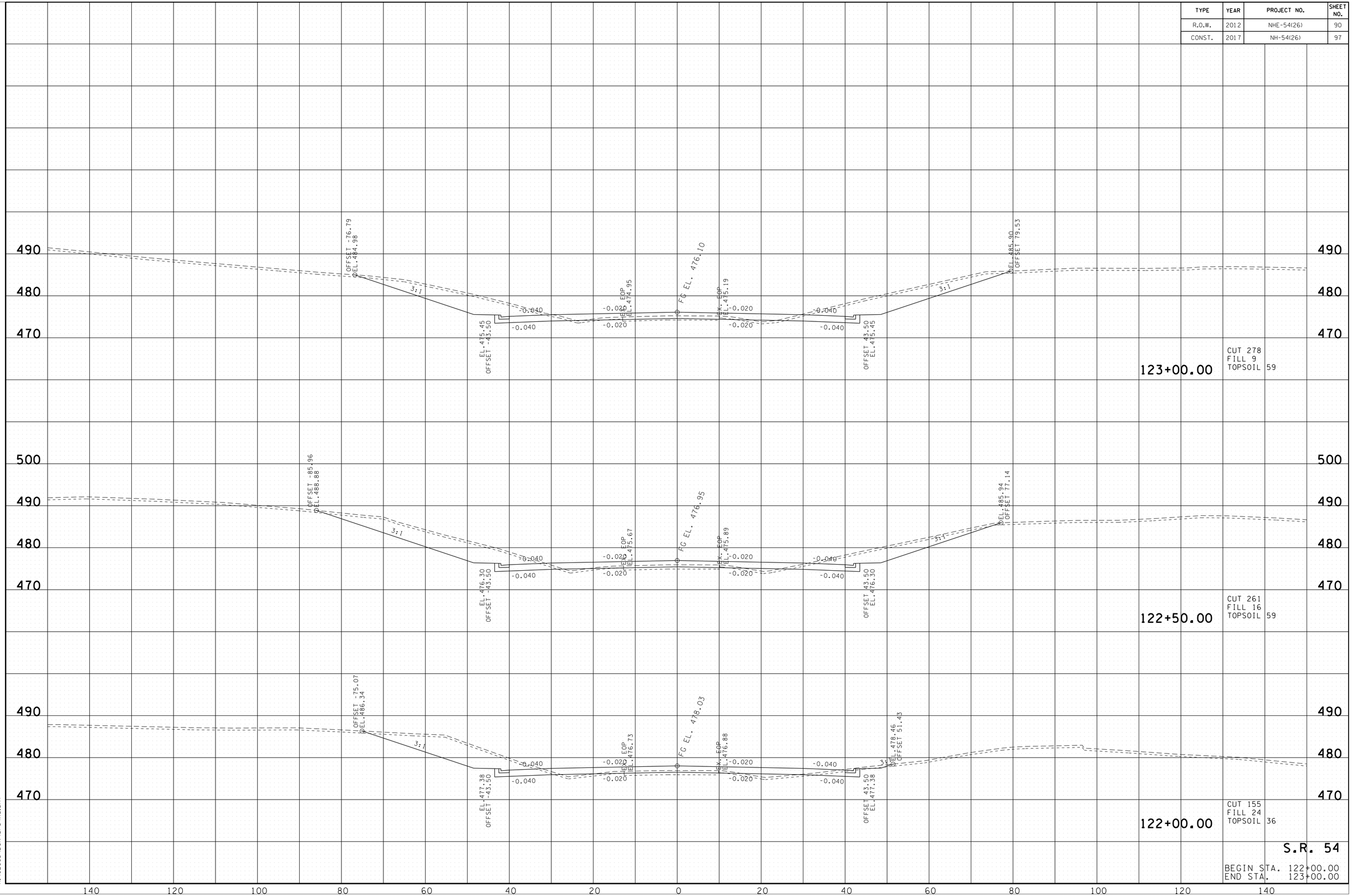
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	90
CONST.	2017	NH-54(26)	97



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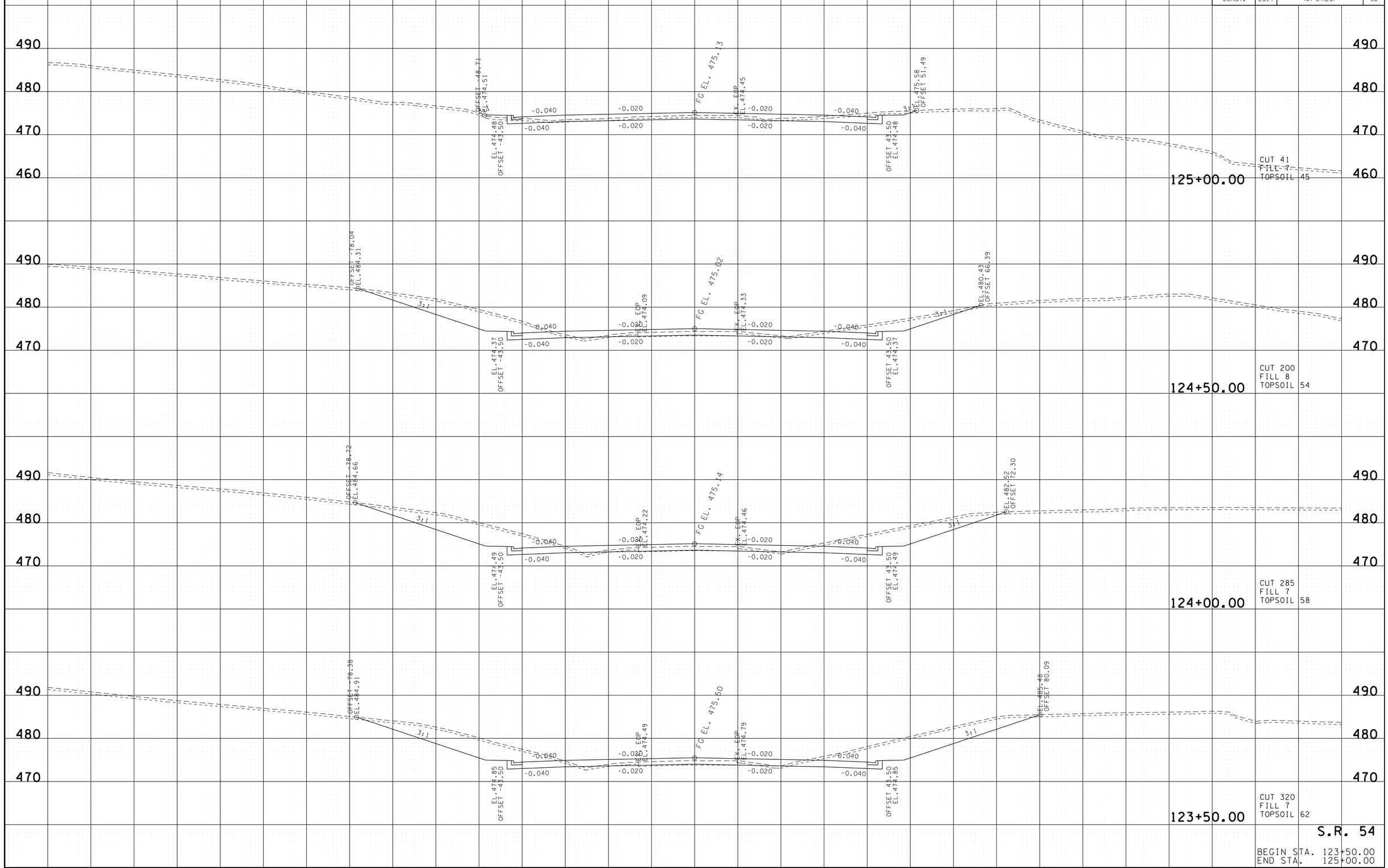
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	91
CONST.	2017	NH-54(26)	98



S.R. 54

BEGIN STA. 123+50.00
END STA. 125+00.00

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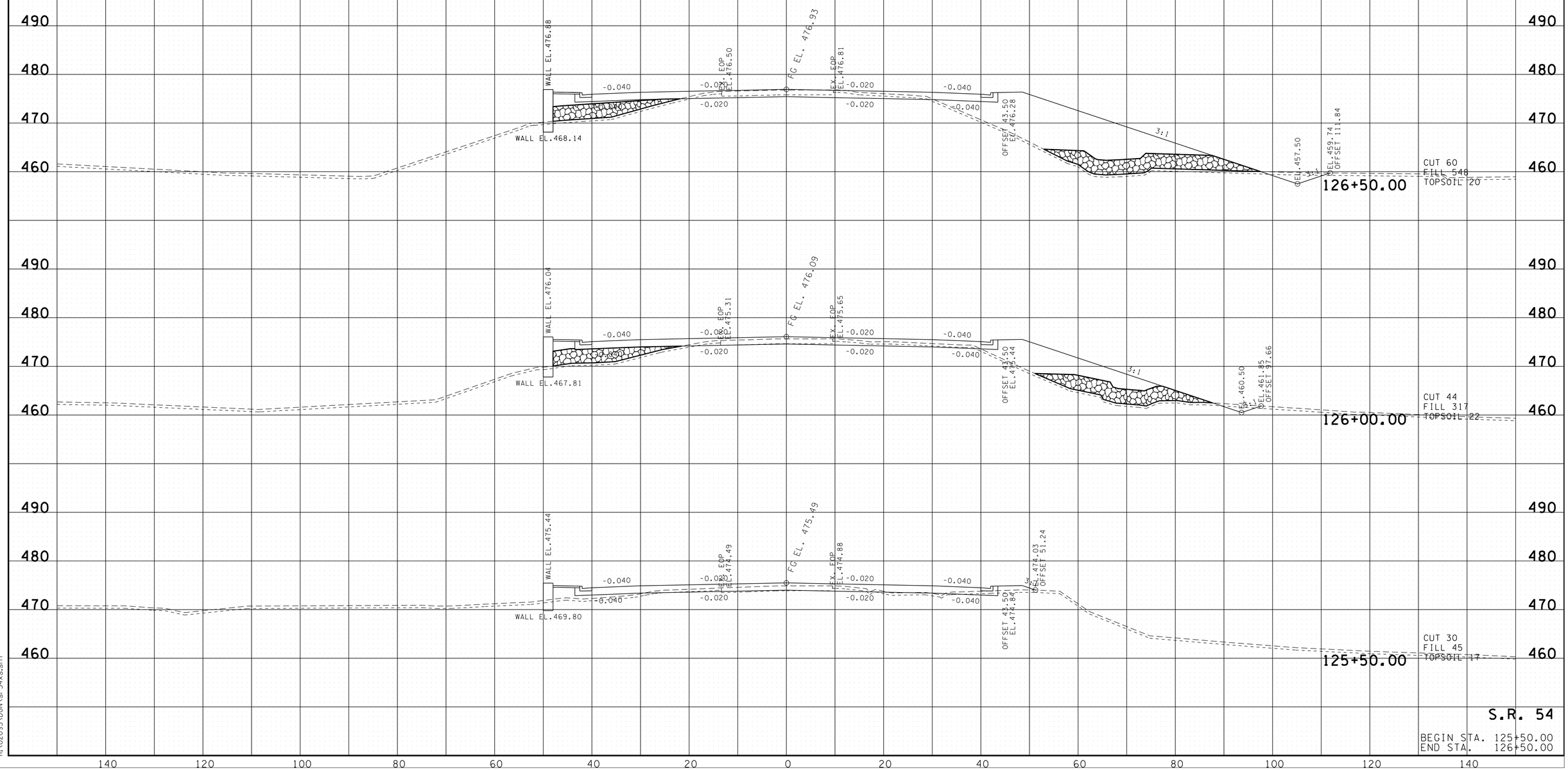
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	92
CONST.	2017	NH-54(26)	99

REV 07-10-12: ADDED RETAINING WALL LT. & UPDATED EARTHWORK STA.125+50 TO STA.128+60



S.R. 54

BEGIN STA. 125+50.00
END STA. 126+50.00

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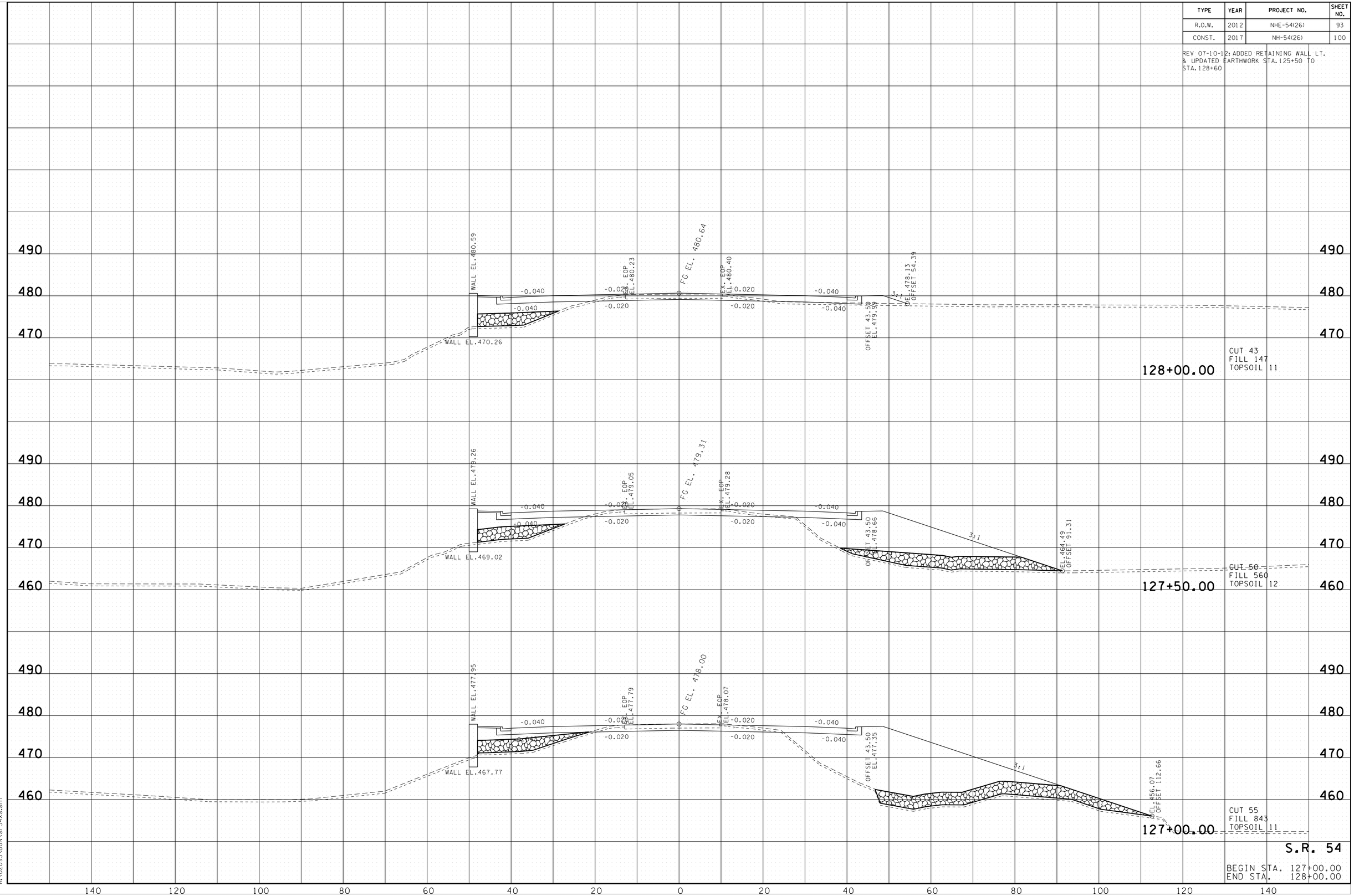
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	93
CONST.	2017	NH-54(26)	100

REV 07-10-12: ADDED RETAINING WALL LT. & UPDATED EARTHWORK STA.125+50 TO STA.128+60



S.R. 54

BEGIN STA. 127+00.00
END STA. 128+00.00

7/25/2016 3:12:42 PM
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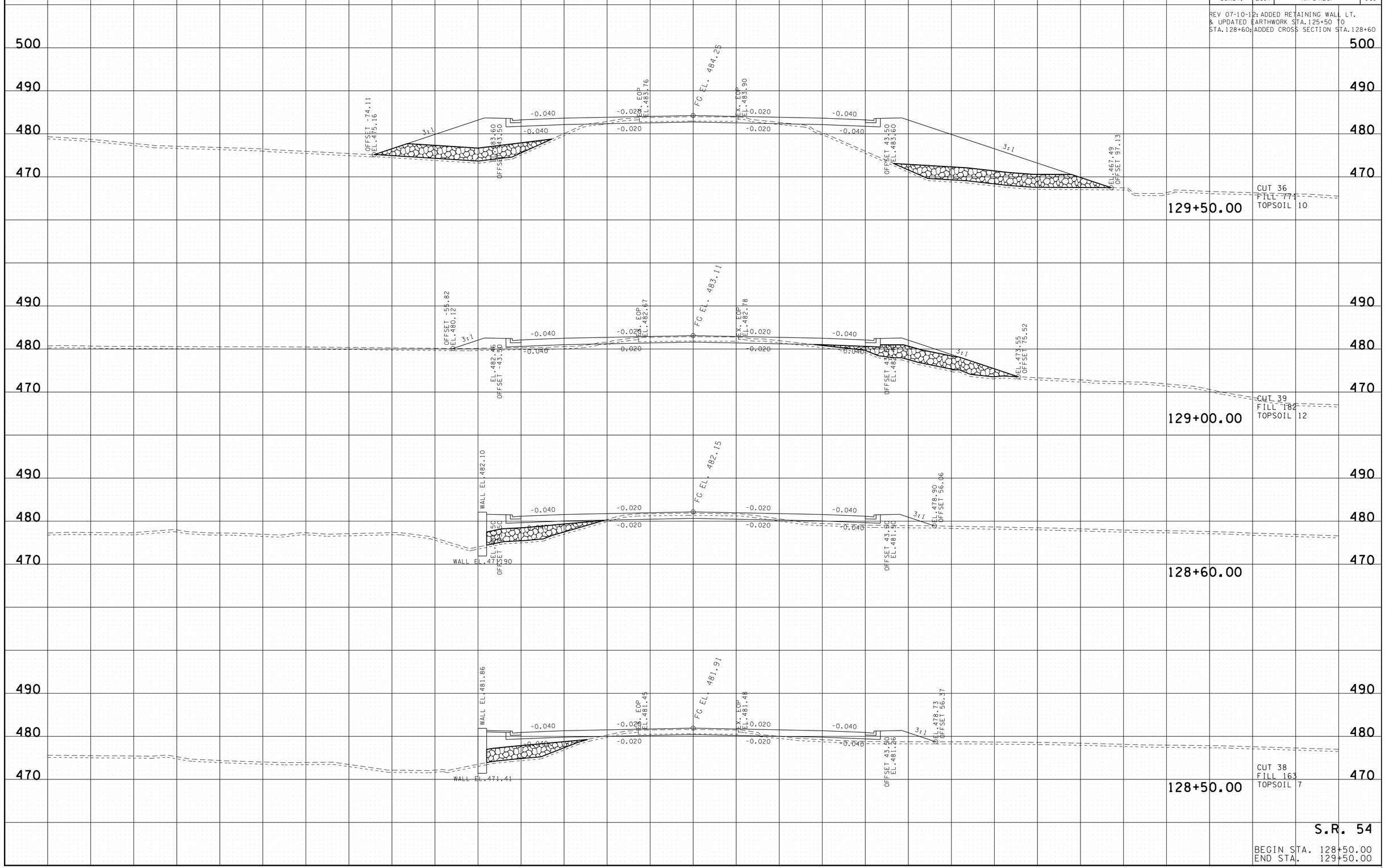
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	94
CONST.	2017	NH-54(26)	101

REV 07-10-12: ADDED RETAINING WALL LT.
& UPDATED EARTHWORK STA.125+50 TO
STA.128+60; ADDED CROSS SECTION STA.128+60



S.R. 54

BEGIN STA. 128+50.00
END STA. 129+50.00

7/25/2016 3:12:45 PM
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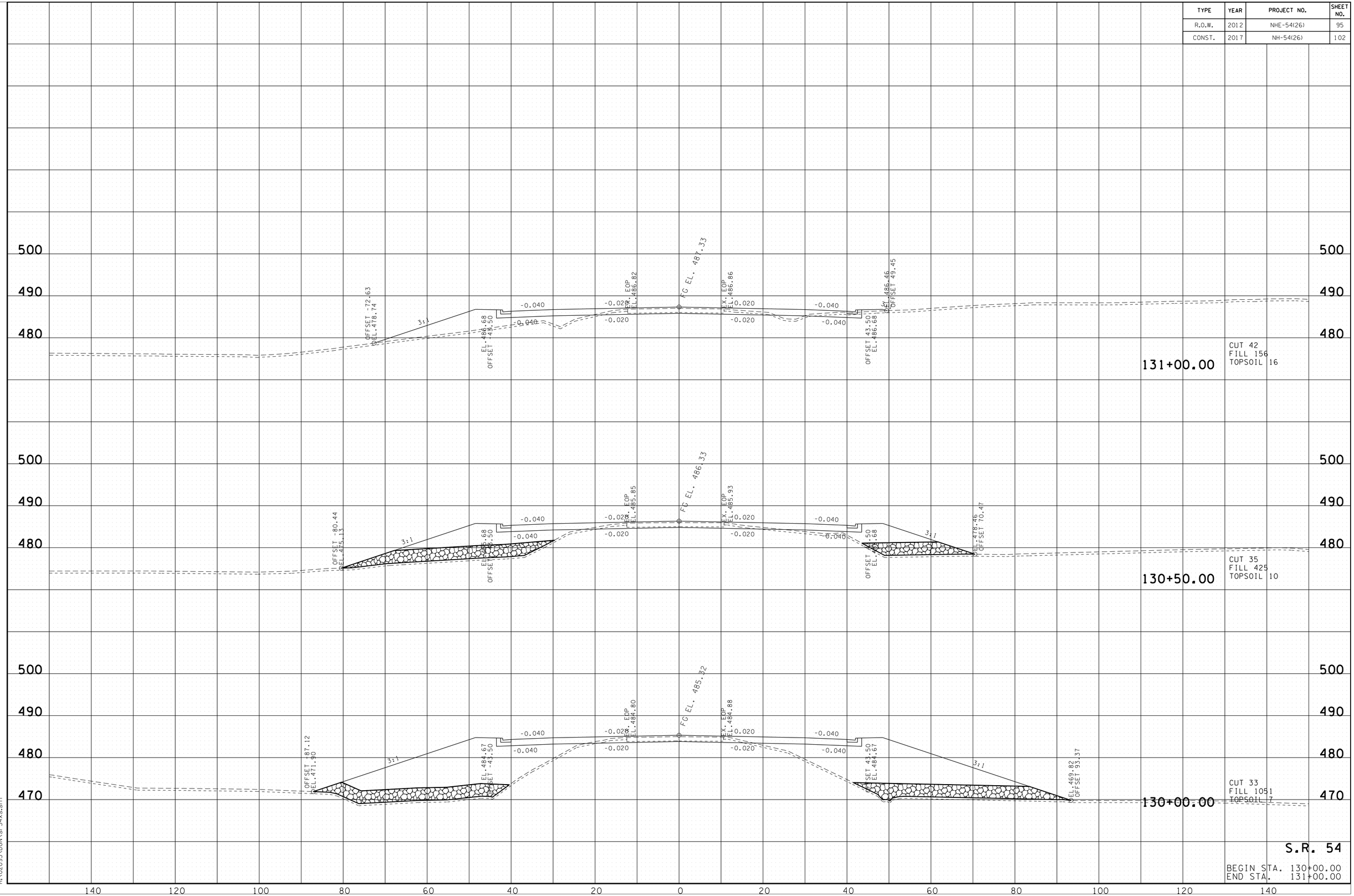
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	95
CONST.	2017	NH-54(26)	102



S.R. 54

BEGIN STA. 130+00.00
END STA. 131+00.00

7/25/2016 3:12:48 PM
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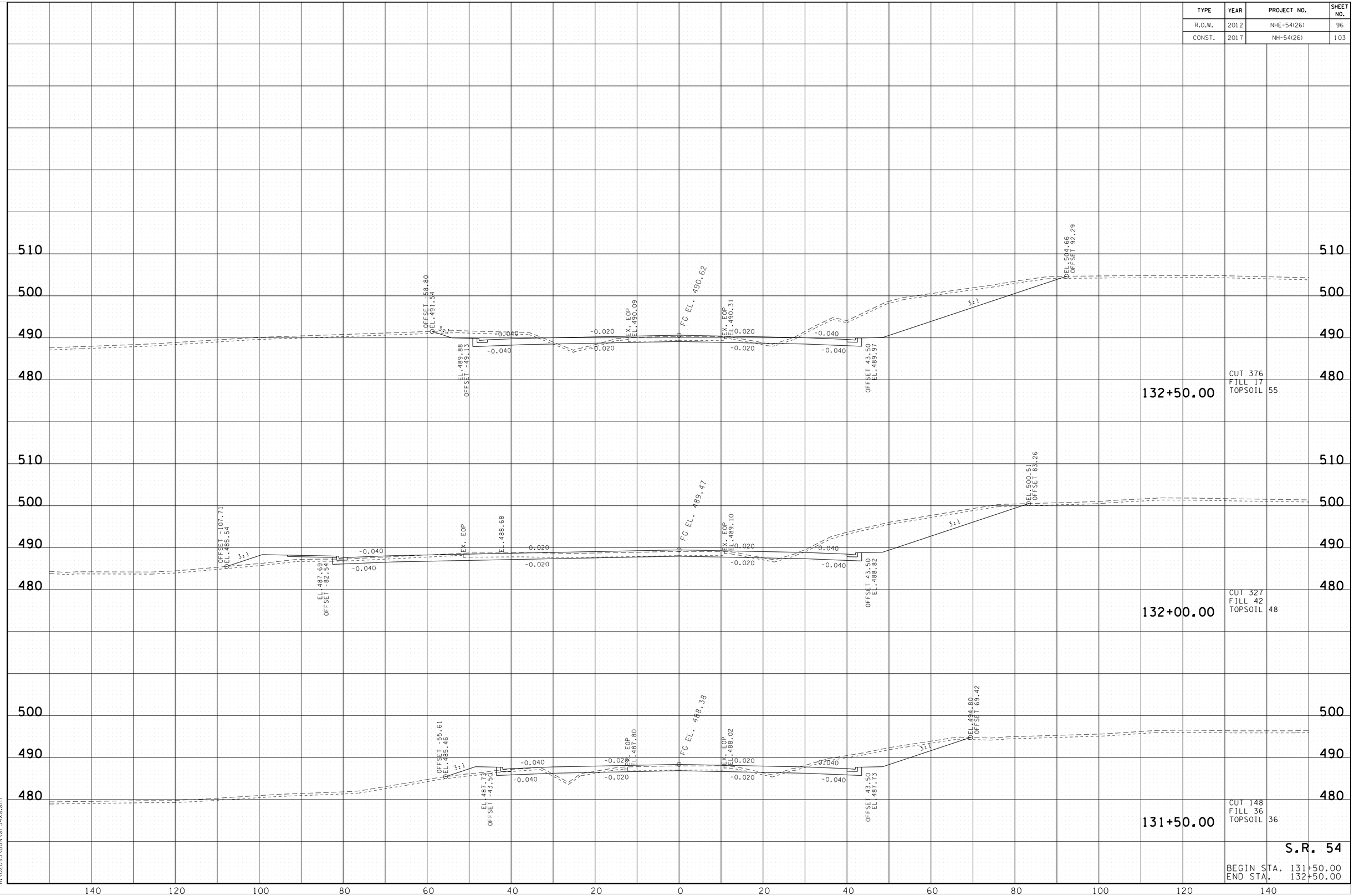
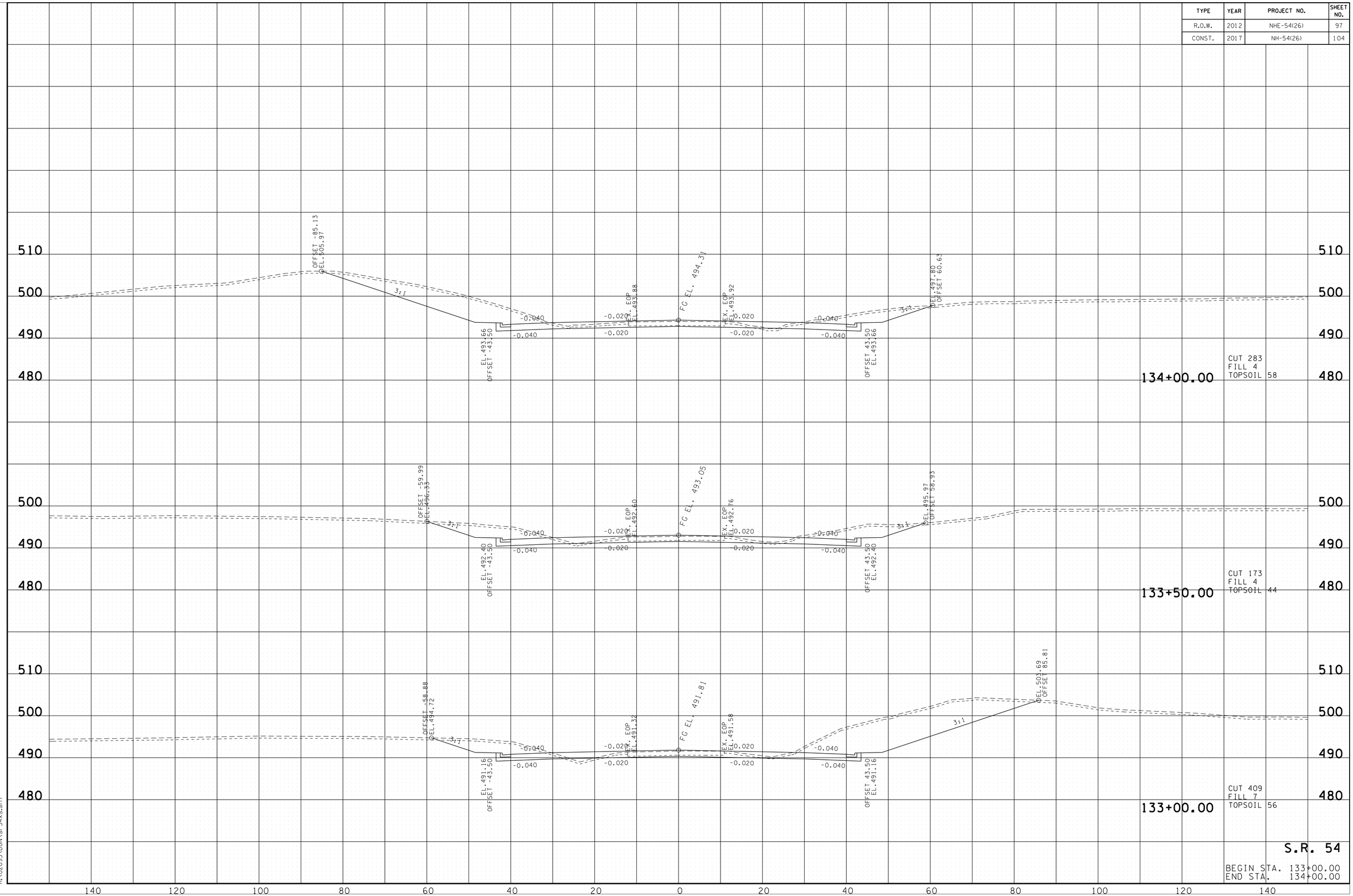
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	96
CONST.	2017	NH-54(26)	103



7/25/2016 3:25:1PM
H:\02093\DGN\sr54xs.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	97
CONST.	2017	NH-54(26)	104



S.R. 54

BEGIN STA. 133+00.00
END STA. 134+00.00

7/25/2016 3:12:54 PM
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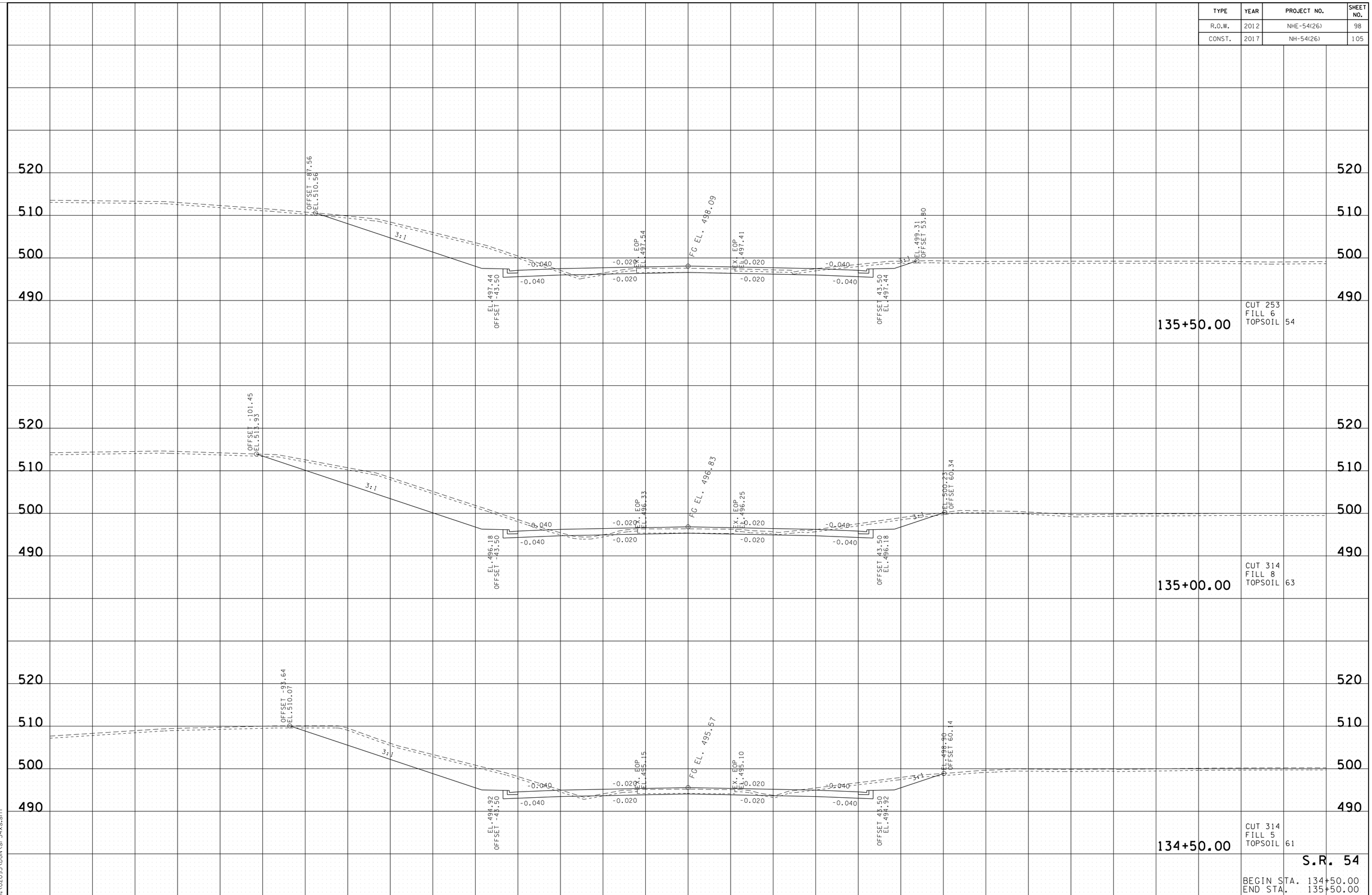
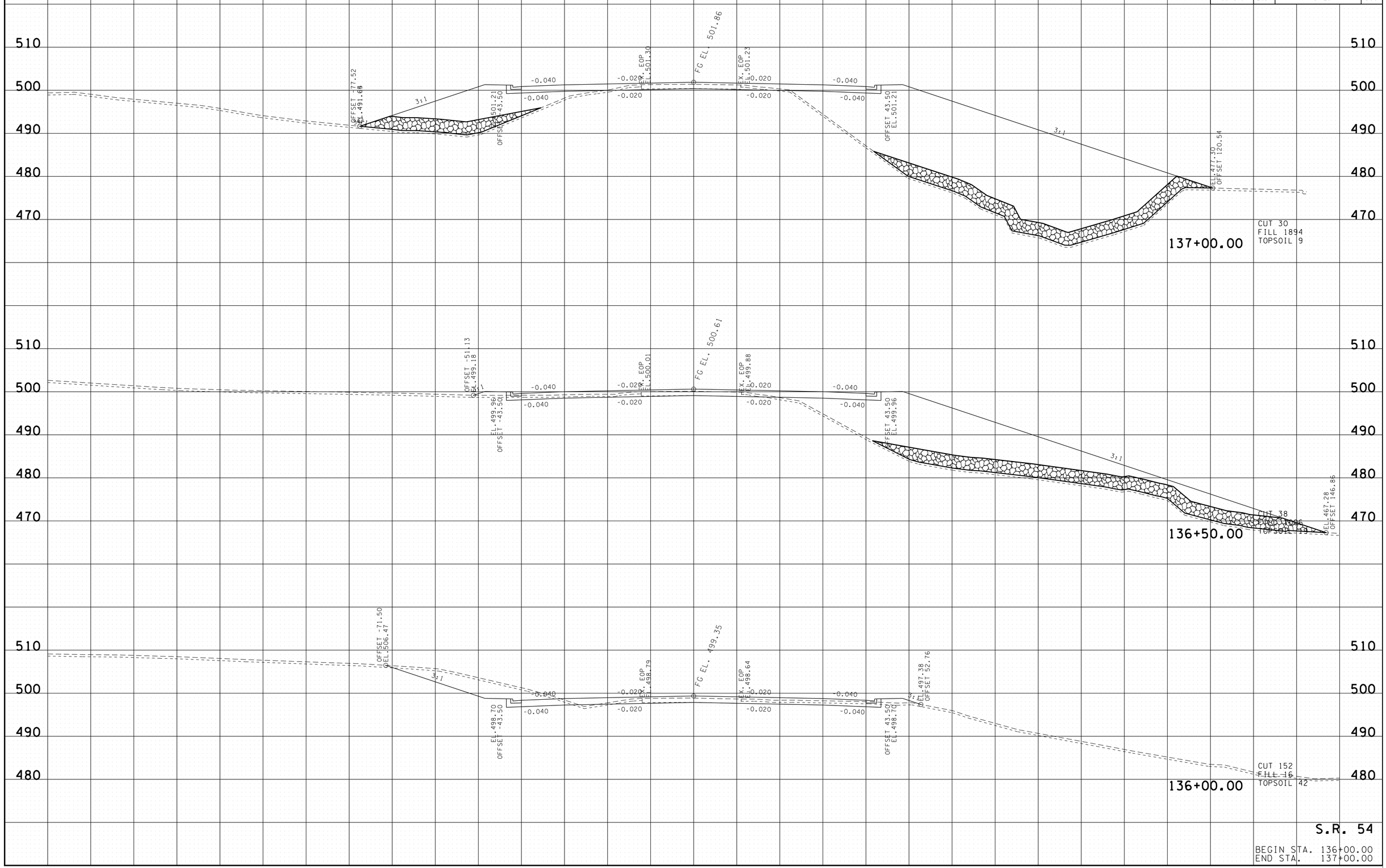
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	98
CONST.	2017	NH-54(26)	105



7/25/2016 3:12:56 PM
H:\02093\DGN\sr54xss.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	99
CONST.	2017	NH-54(26)	106



S.R. 54

BEGIN STA. 136+00.00
END STA. 137+00.00

7/25/2016 3:12:59 PM
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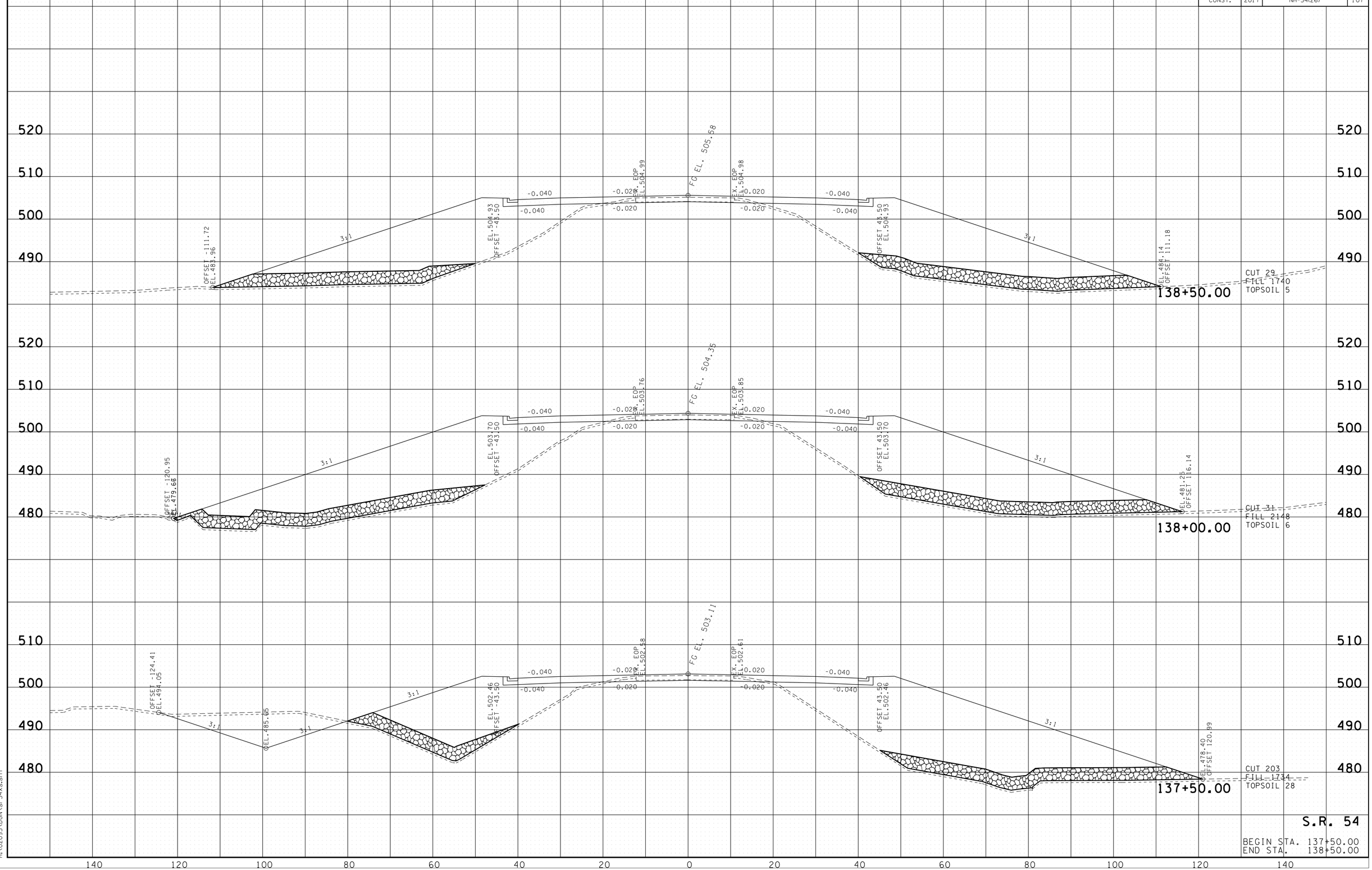
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	100
CONST.	2017	NH-54(26)	107



S.R. 54

BEGIN STA. 137+50.00
END STA. 138+50.00

7/25/2016 3:13:02 PM
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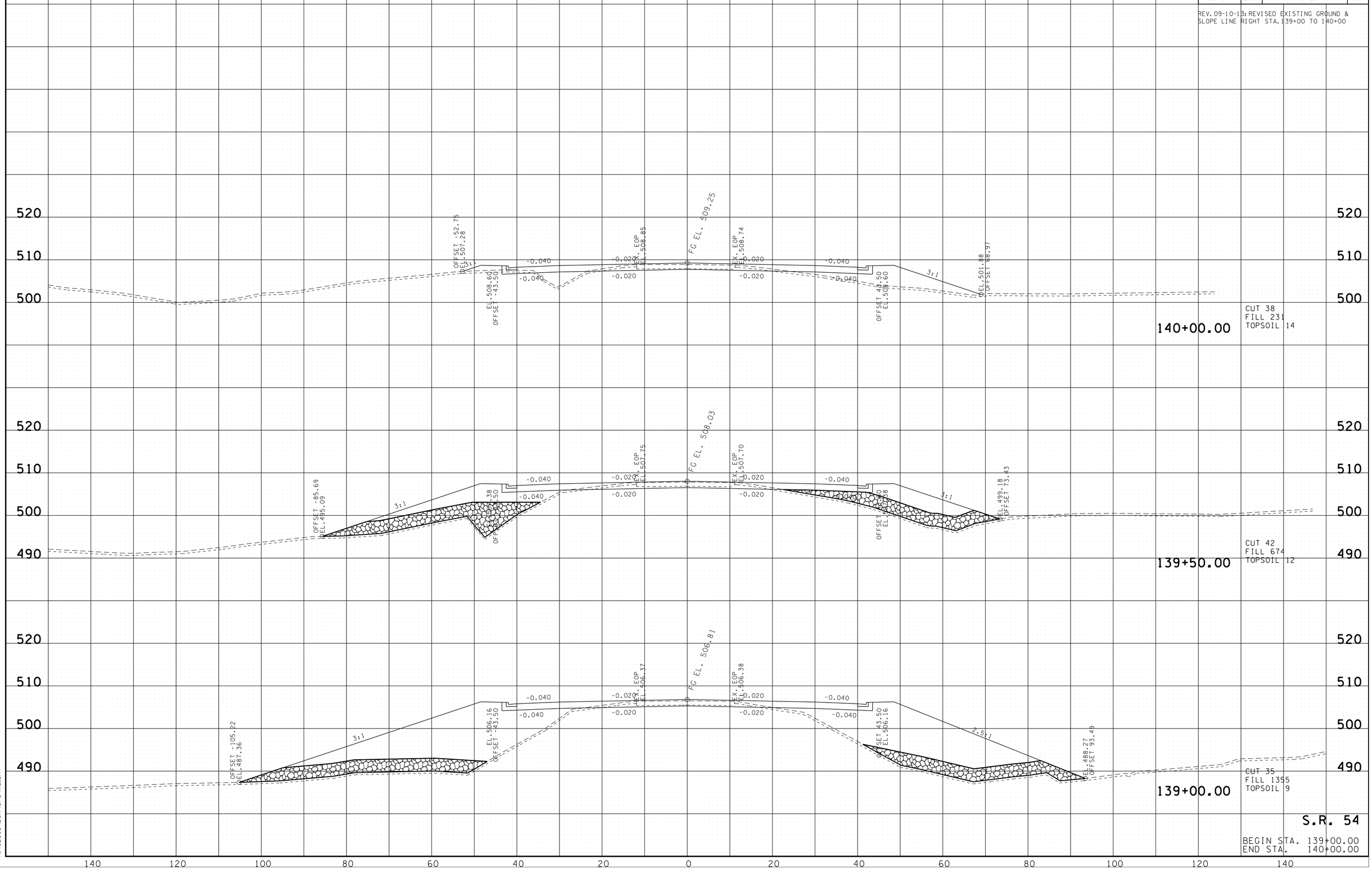
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	101
CONST.	2017	NH-54(26)	108

REV. 09-10-13: REVISED EXISTING GROUND & SLOPE LINE RIGHT STA. 139+00 TO 140+00



S.R. 54

BEGIN STA. 139+00.00
END STA. 140+00.00

7/25/2016 3:13:05 PM
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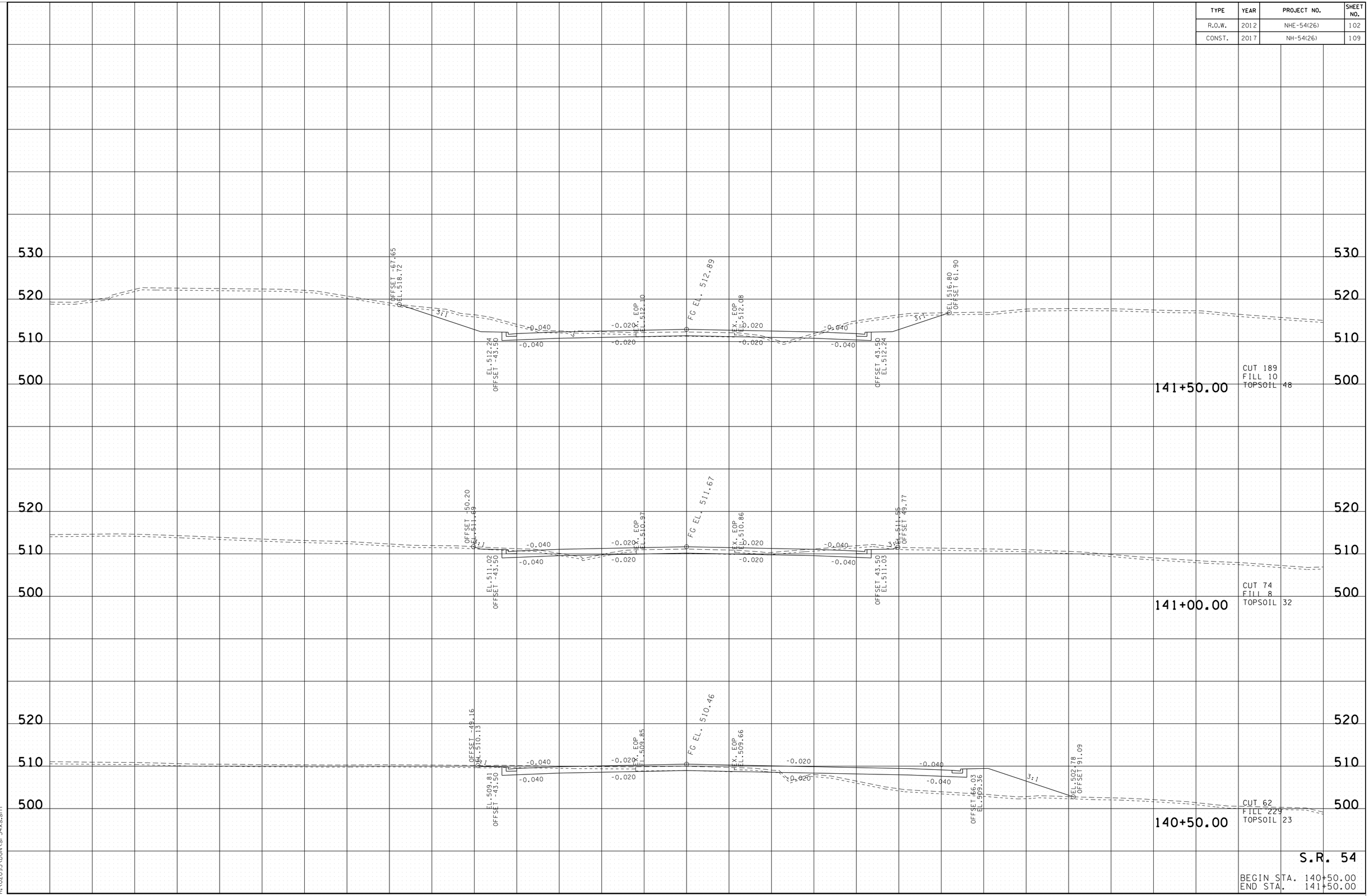
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	102
CONST.	2017	NH-54(26)	109



S.R. 54

BEGIN STA. 140+50.00
END STA. 141+50.00

7/25/2016 3:13:08 PM
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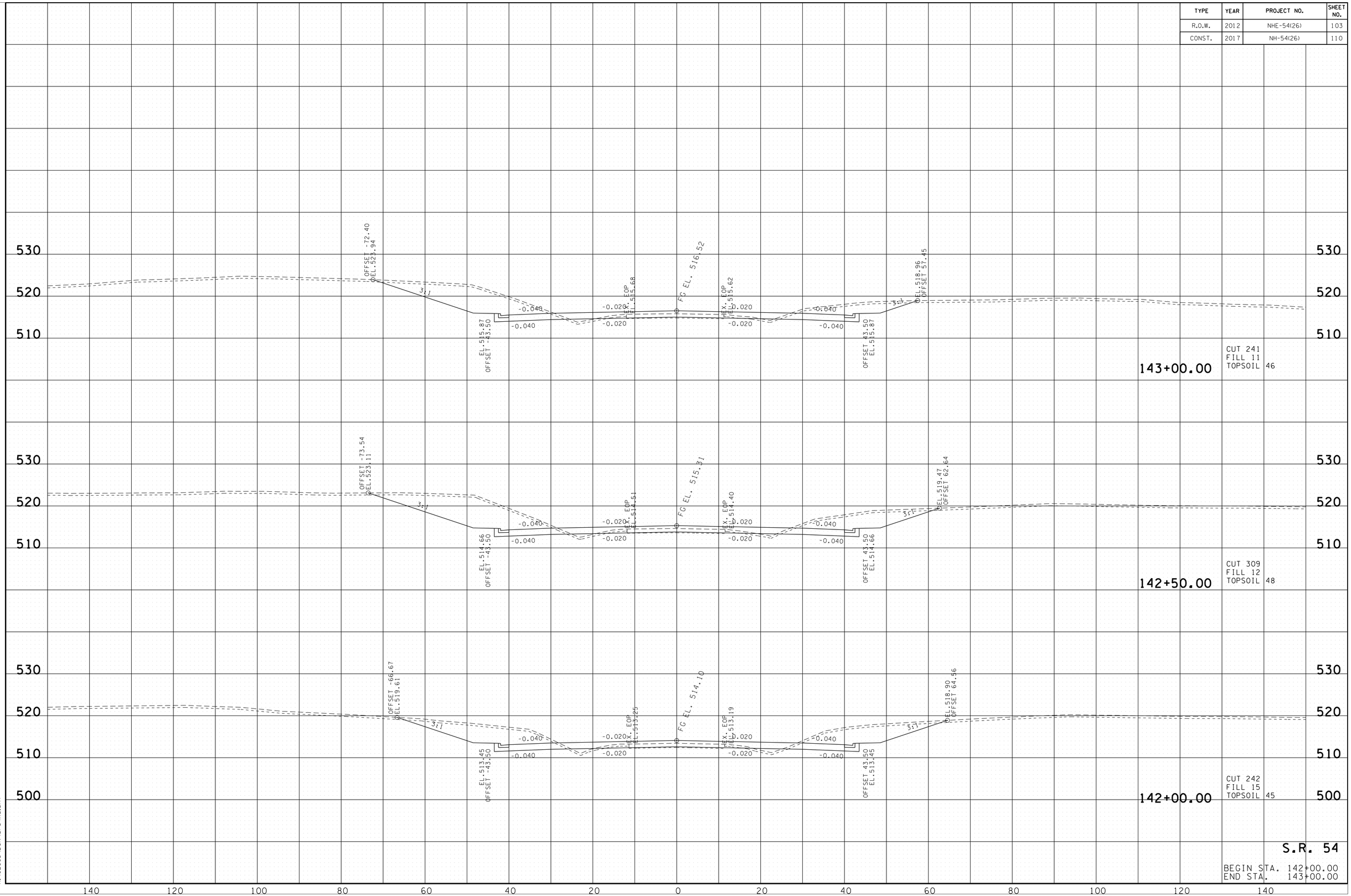
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	103
CONST.	2017	NH-54(26)	110



S.R. 54

BEGIN STA. 142+00.00
END STA. 143+00.00

7/25/2016 3:13:10 PM
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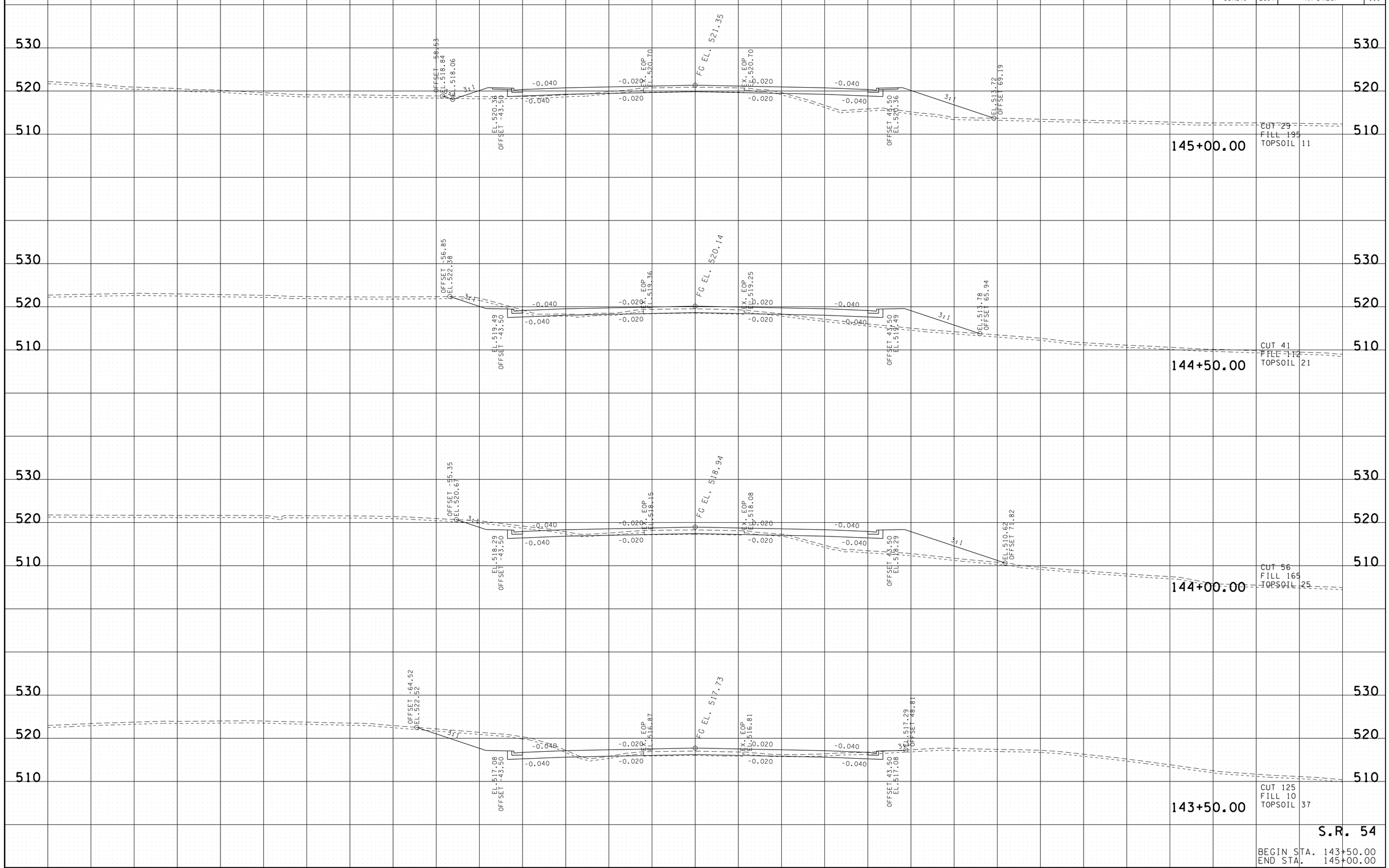
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	104
CONST.	2017	NH-54(26)	111



S.R. 54

BEGIN STA. 143+50.00
END STA. 145+00.00

7/25/2016 3:13:13 PM
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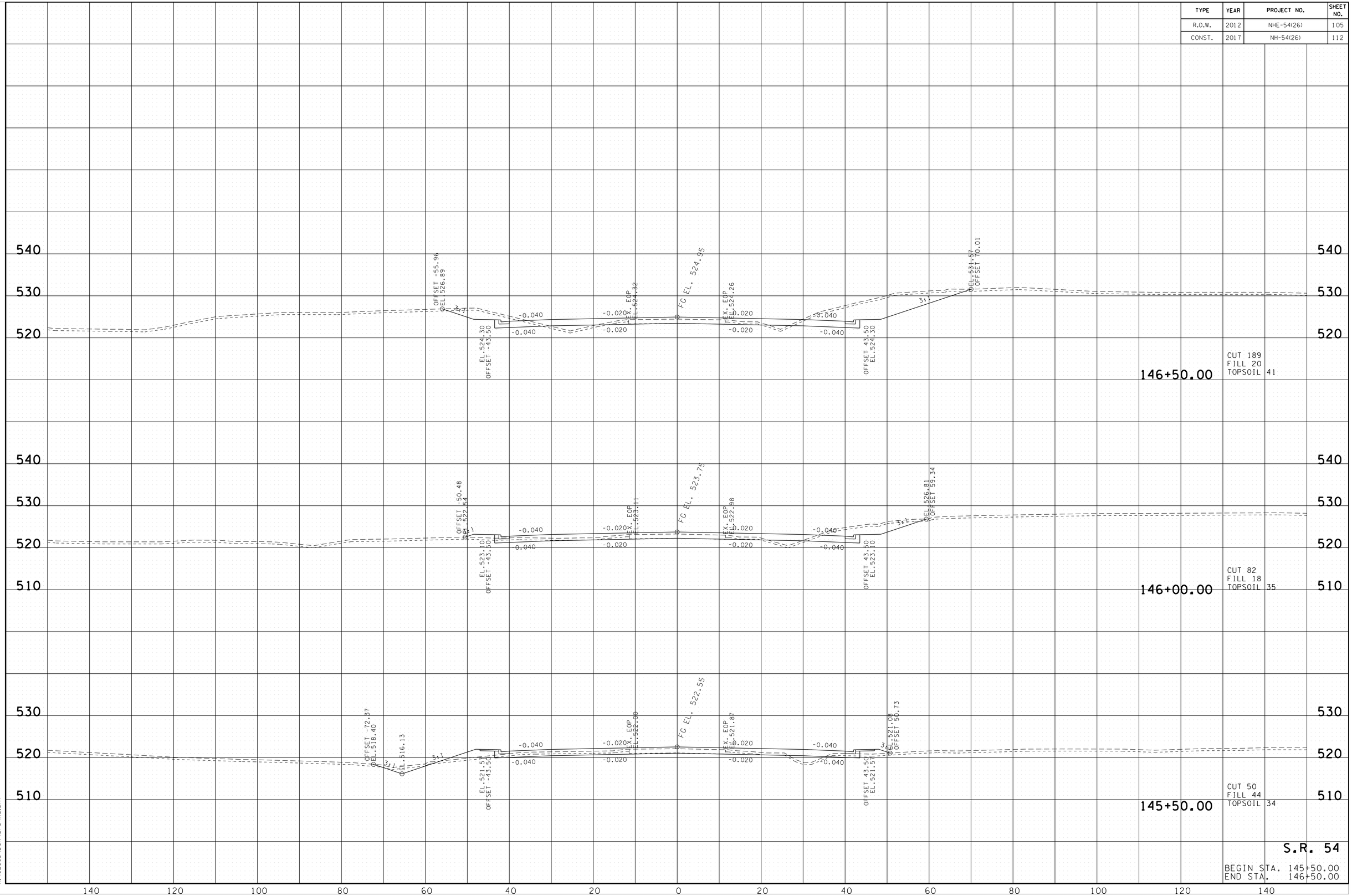
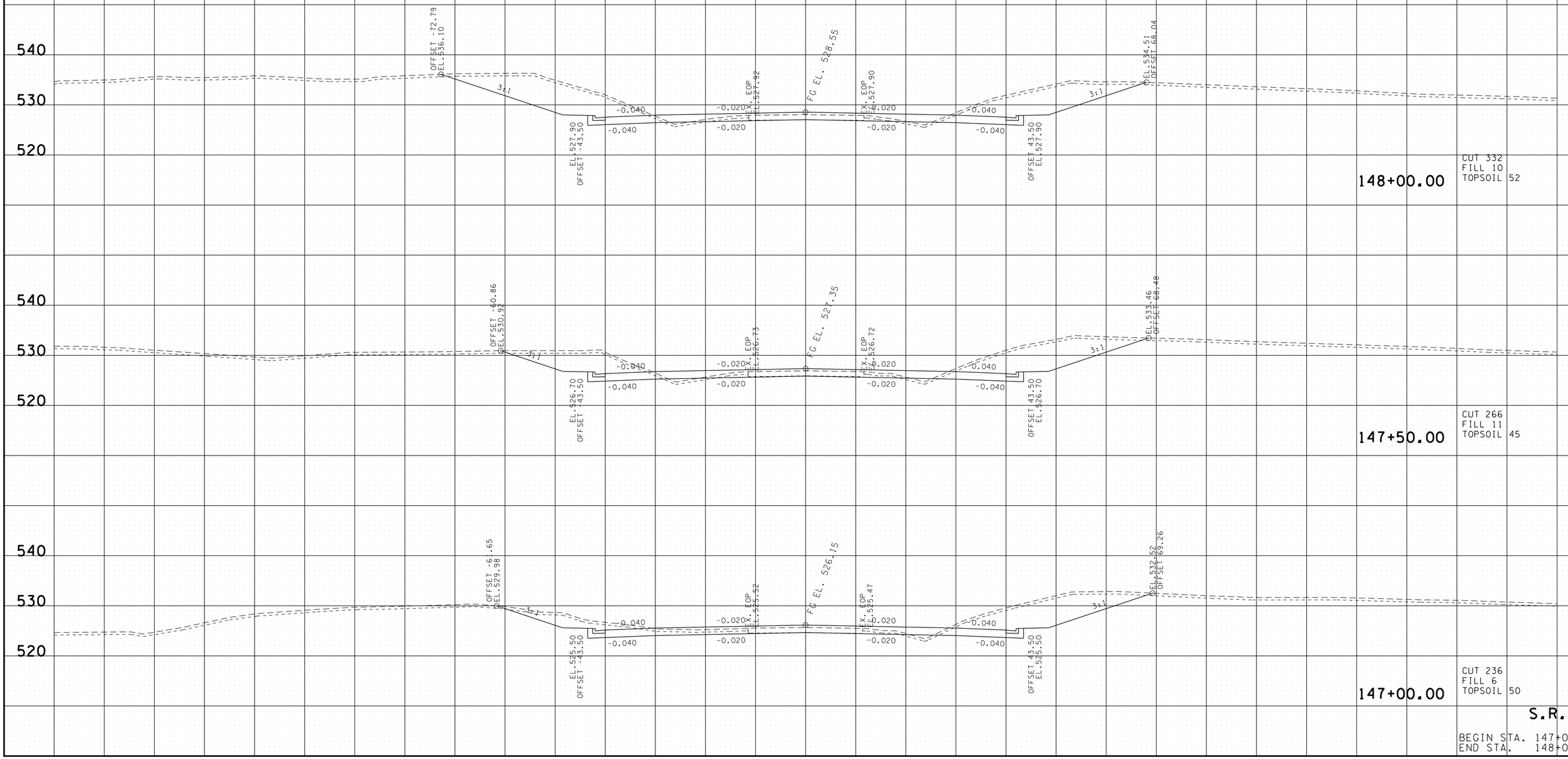
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	105
CONST.	2017	NH-54(26)	112



7/25/2016 3:13:16 PM
H:\02093\DGN\sr54xs.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	106
CONST.	2017	NH-54(26)	113



S.R. 54

BEGIN STA. 147+00.00
END STA. 148+00.00

7/25/2016 3:13:19 PM
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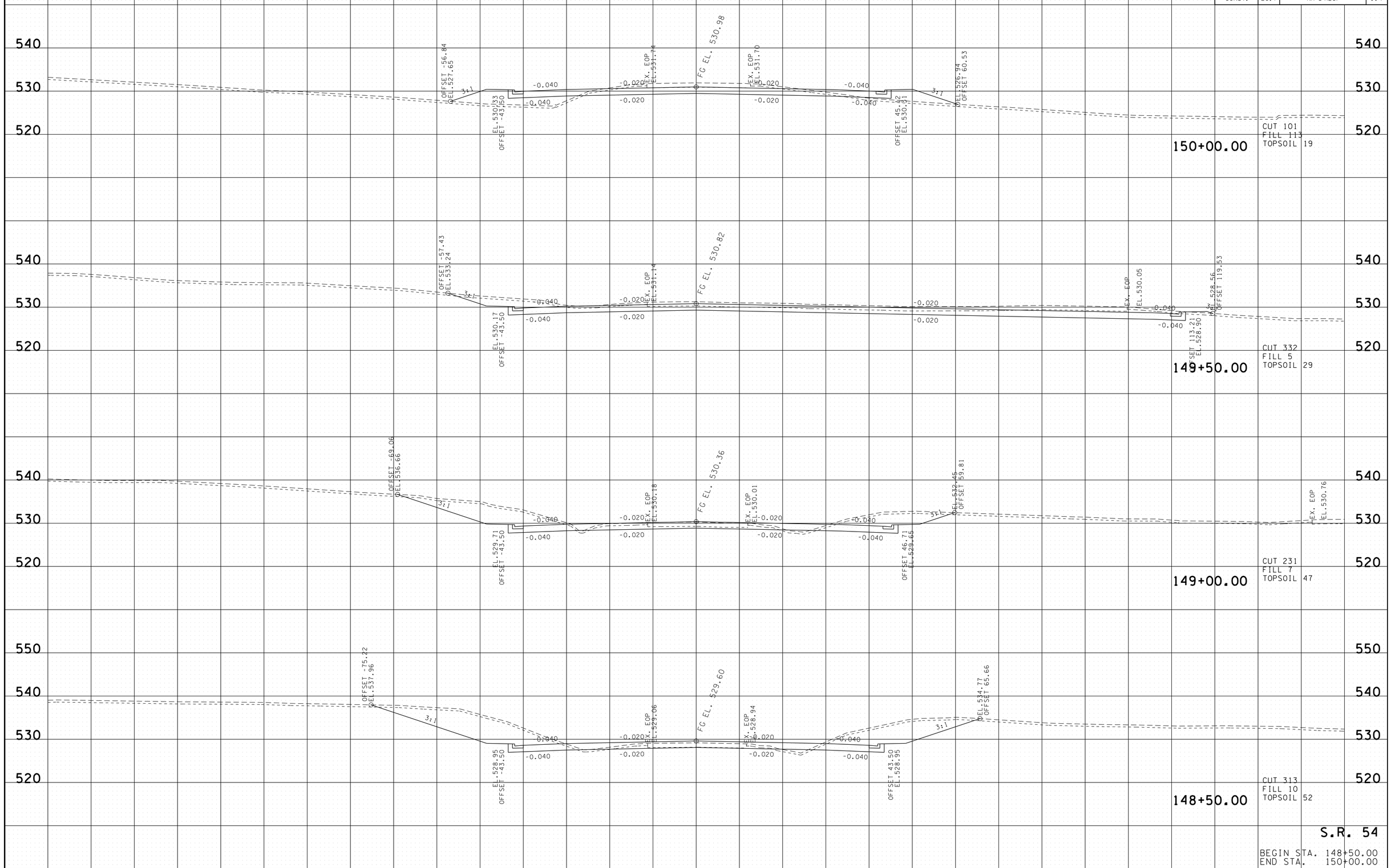
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	107
CONST.	2017	NH-54(26)	114



7/25/2016 3:13:28 PM
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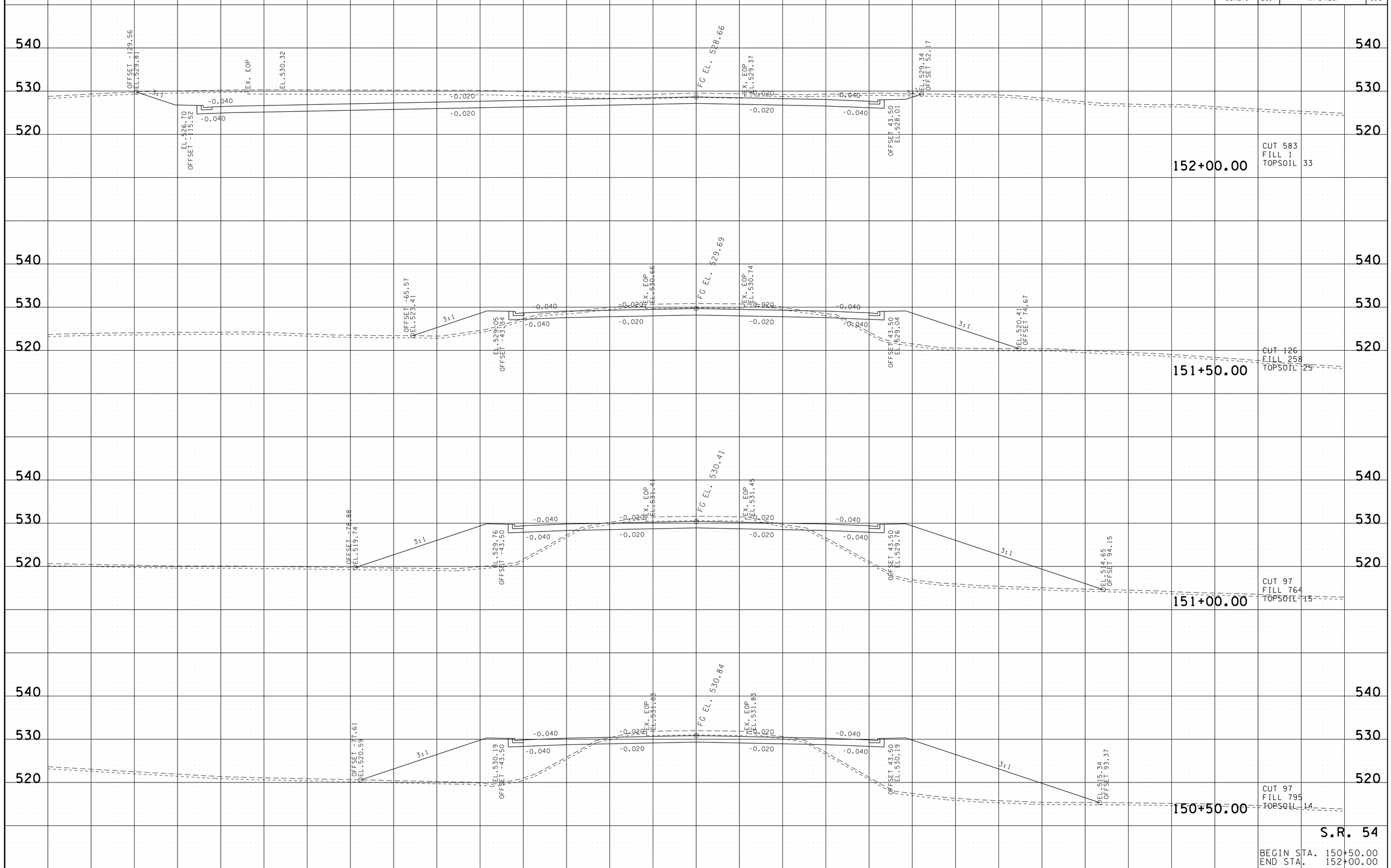
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	108
CONST.	2017	NH-54(26)	115



7/25/2016 3:13:31 PM
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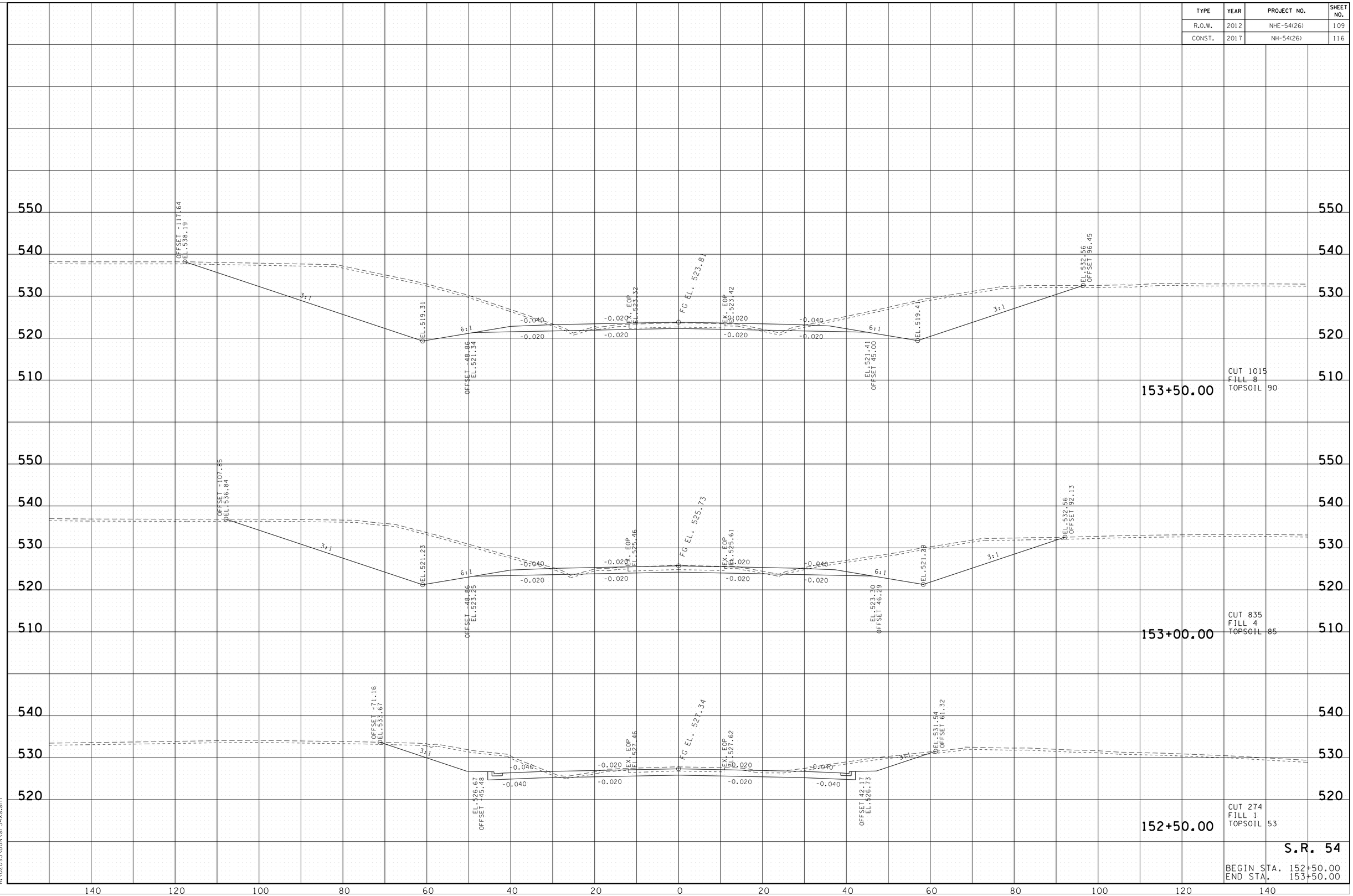
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	109
CONST.	2017	NH-54(26)	116



S.R. 54

BEGIN STA. 152+50.00
END STA. 153+50.00

7/25/2016 3:13:33 PM
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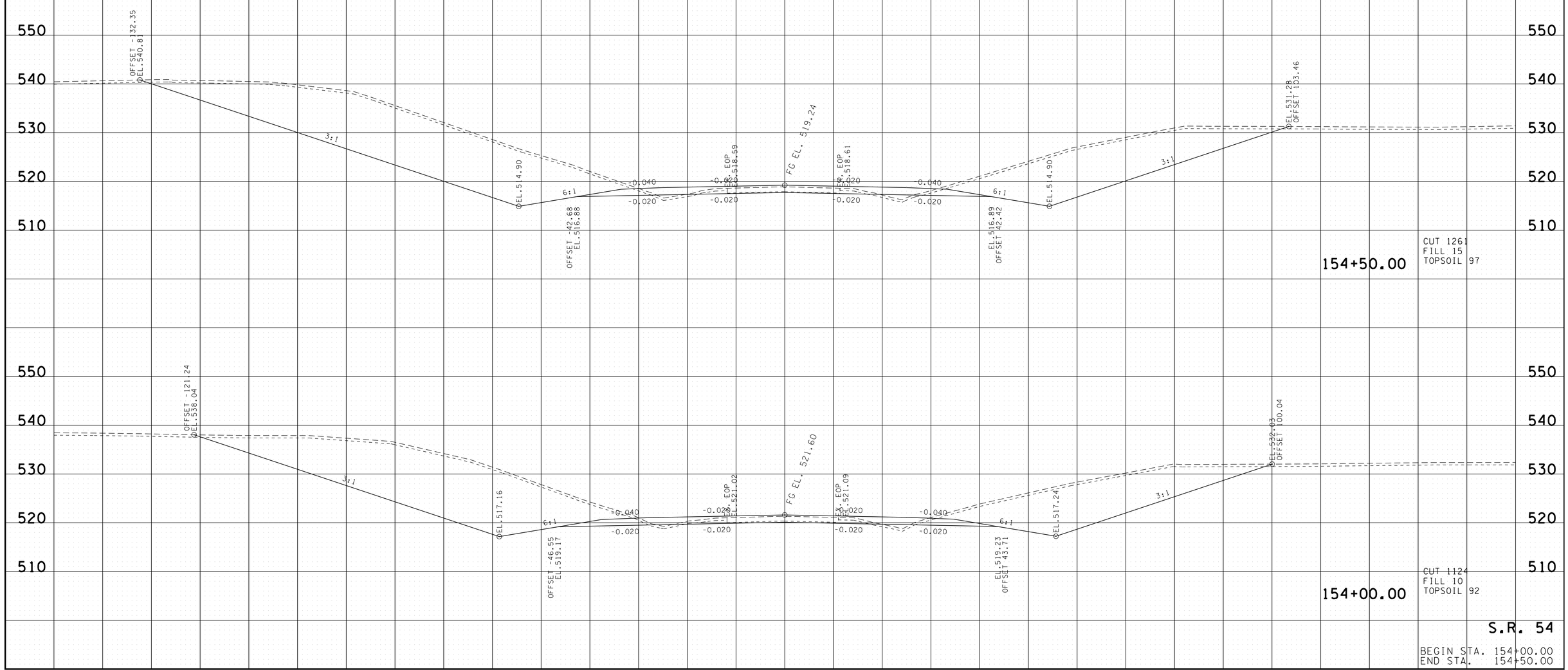
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	110
CONST.	2017	NH-54(26)	117



S.R. 54

BEGIN STA. 154+00.00
END STA. 154+50.00

7/25/2016 3:13:36 PM
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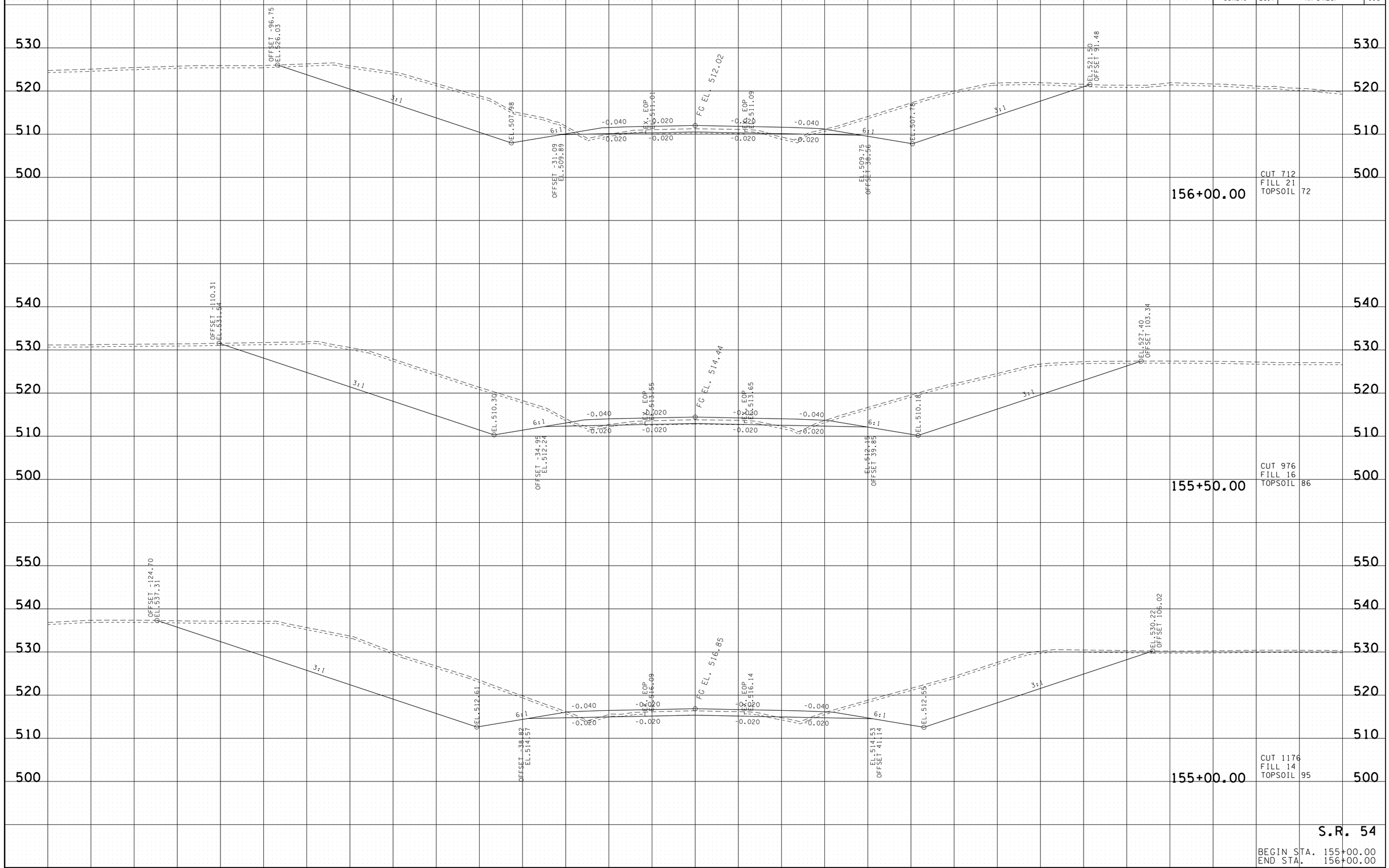
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	111
CONST.	2017	NH-54(26)	118



S.R. 54

BEGIN STA. 155+00.00
END STA. 156+00.00

7/25/2016 3:13:39 PM
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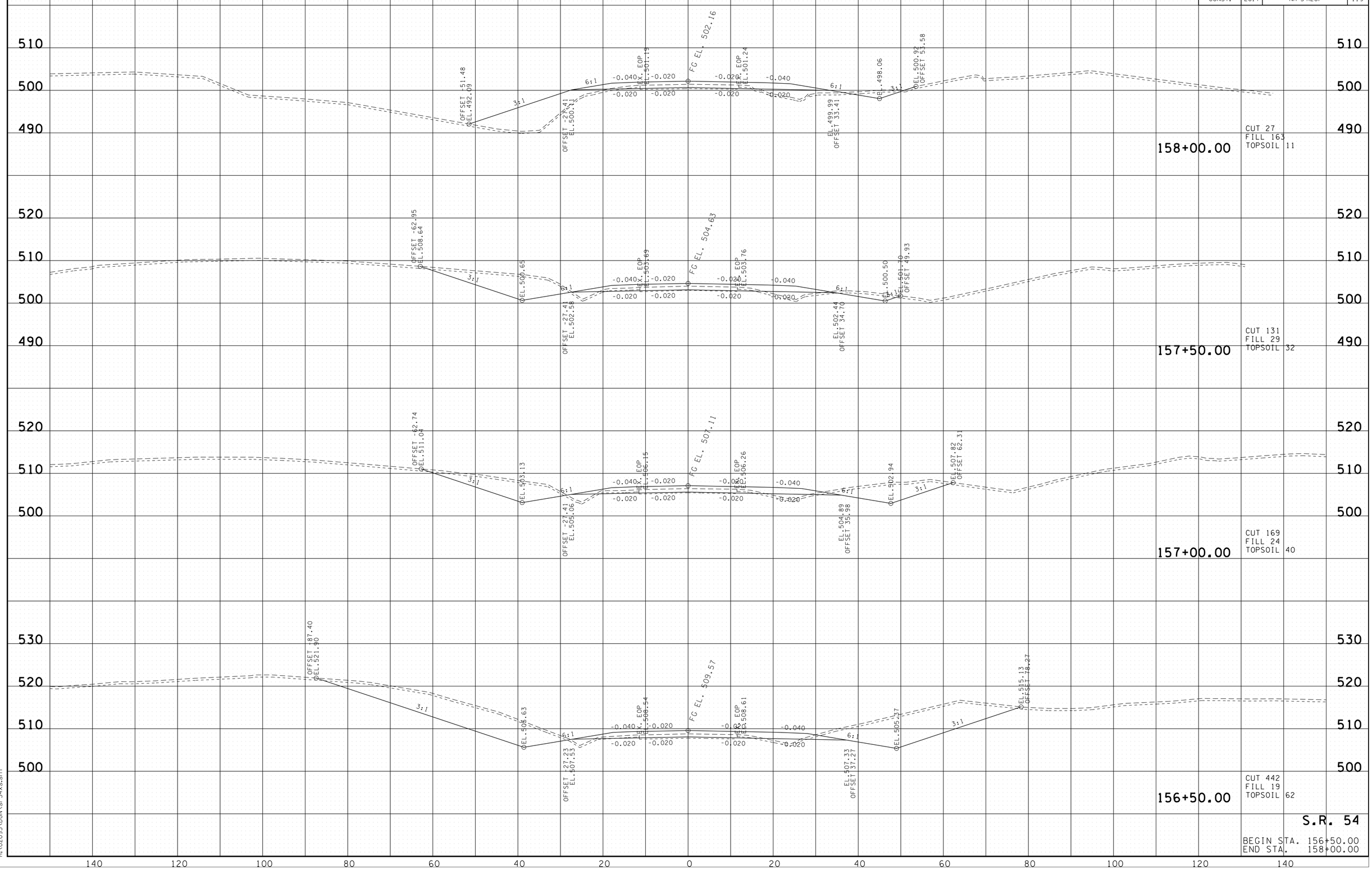
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	112
CONST.	2017	NH-54(26)	119



S.R. 54

BEGIN STA. 156+50.00
END STA. 158+00.00

7/25/2016 3:13:41PM
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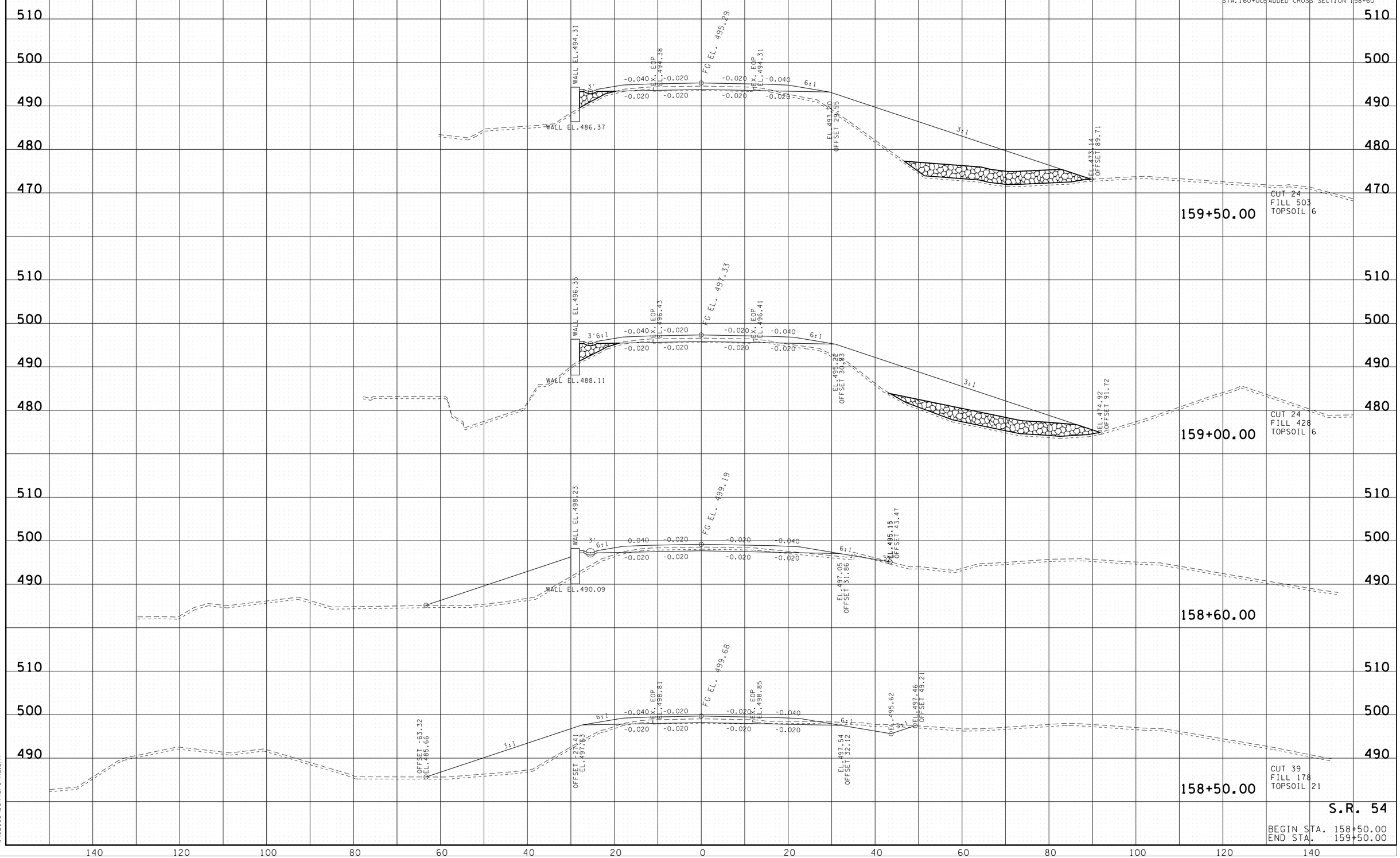
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	113
CONST.	2017	NH-54(26)	120

REV 07-10-12: ADDED RETAINING WALL LT.
& UPDATED EARTHWORK STA.158+60 TO
STA.160+00; ADDED CROSS SECTION 158+60



S.R. 54

BEGIN STA. 158+50.00
END STA. 159+50.00

7/25/2016 3:13:44 PM
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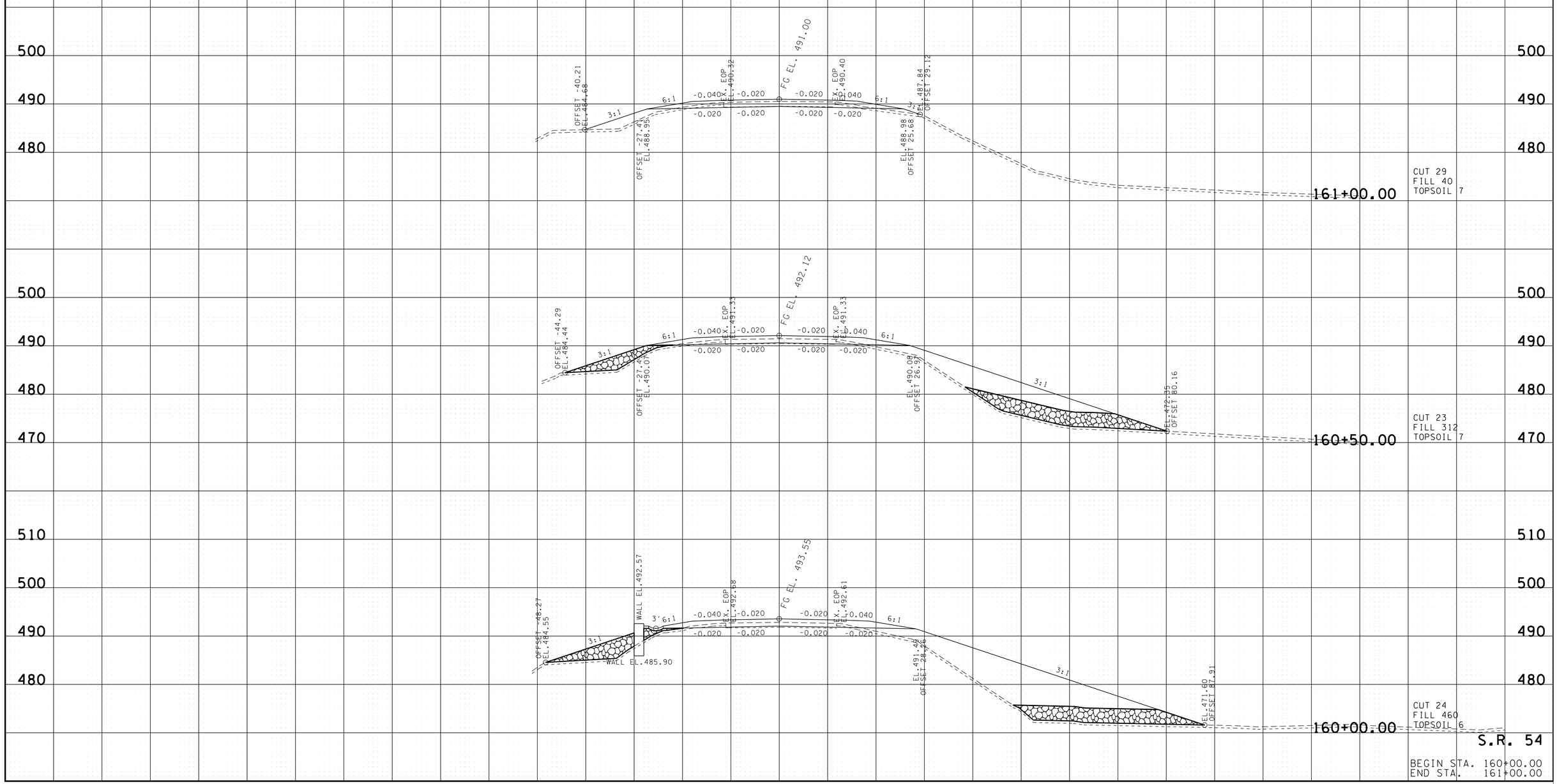
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	114
CONST.	2017	NH-54(26)	121

REV 07-10-12: ADDED RETAINING WALL LT. & UPDATED EARTHWORK STA.158+60 TO STA.160+00



7/25/2016 3:13:47 PM
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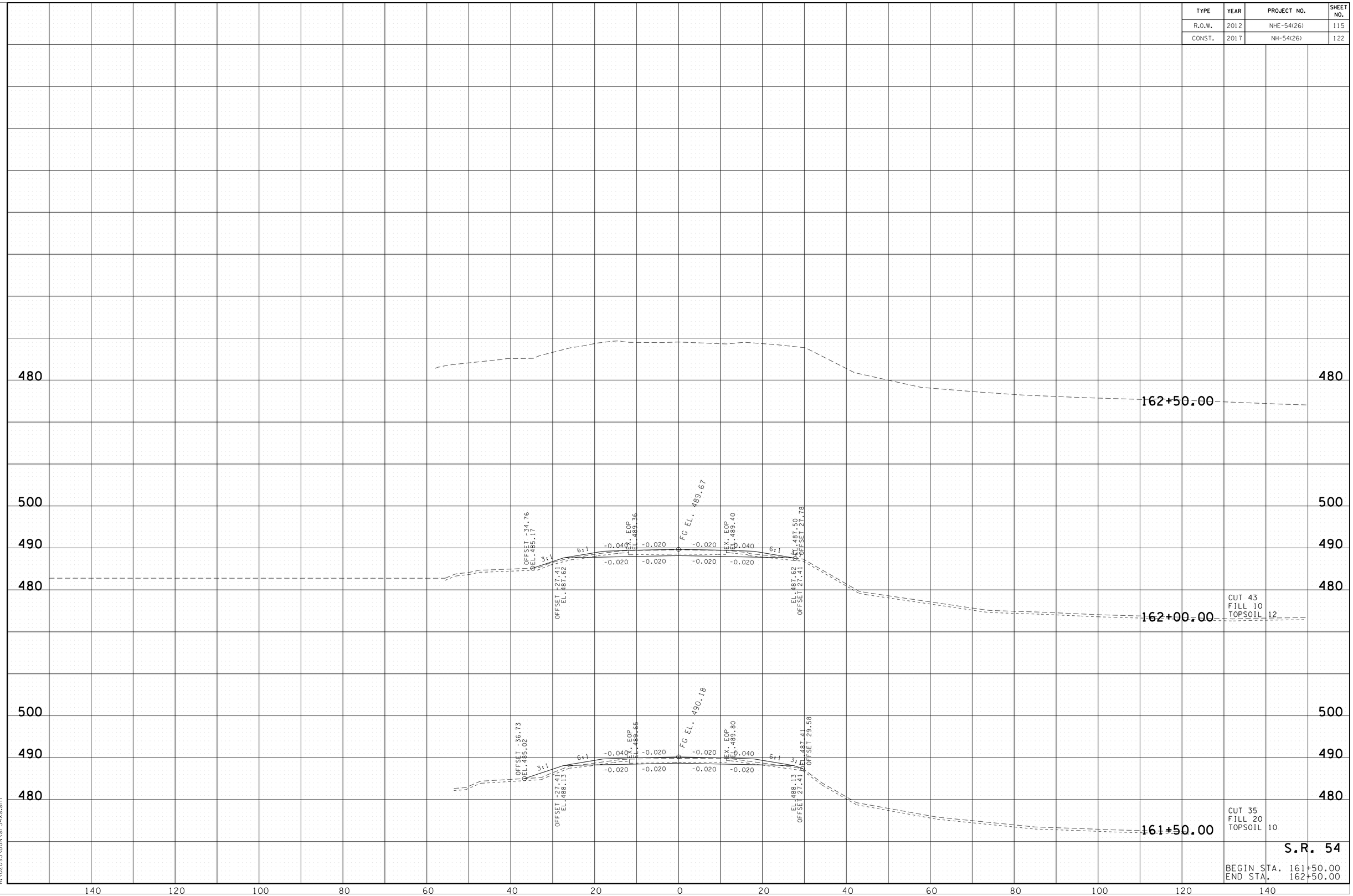
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	115
CONST.	2017	NH-54(26)	122

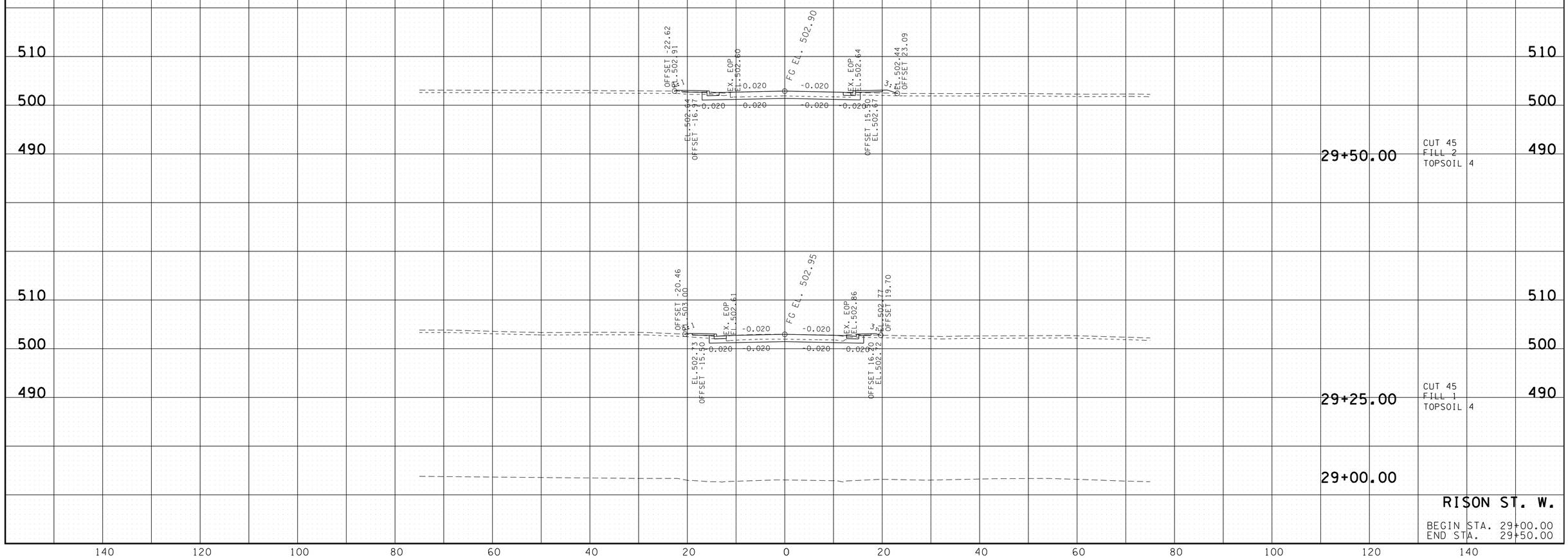


7/25/2016 3:35:50 PM
H:\02093\DGN\sr54xs.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	117
CONST.	2017	NH-54(26)	123

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



RISON ST. W.

BEGIN STA. 29+00.00
END STA. 29+50.00

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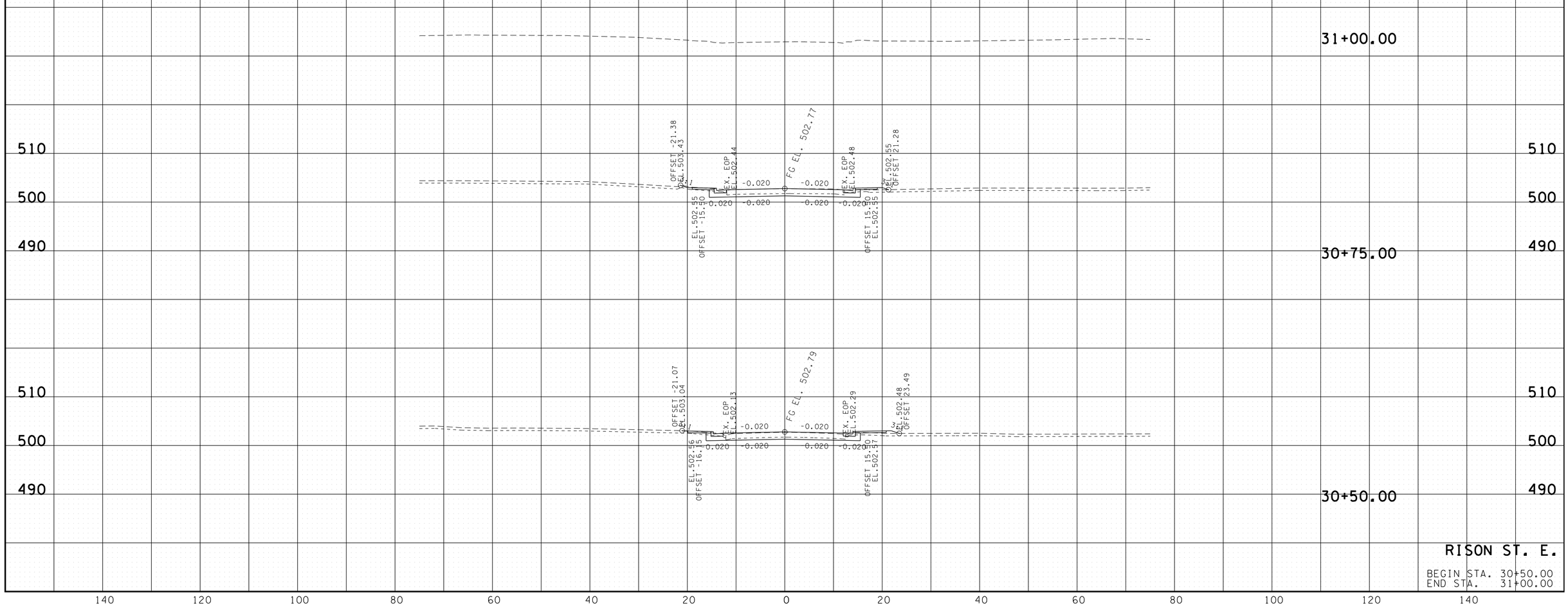
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	116
CONST.	2017	NH-54(26)	124

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



RISON ST. E.

BEGIN STA. 30+50.00
END STA. 31+00.00

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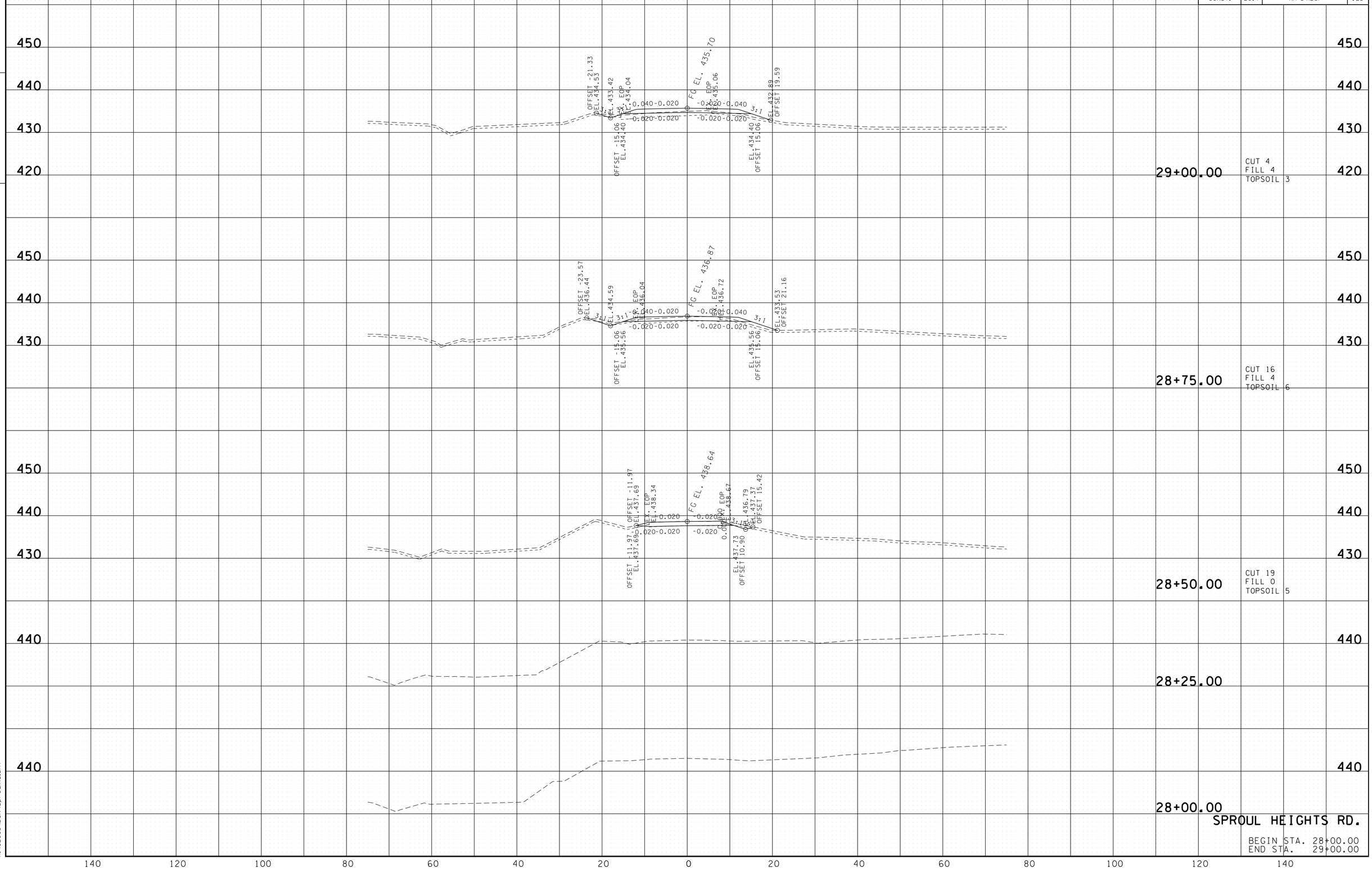
H:\02093\DGN\rrisonexs.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	118
CONST.	2017	NH-54(26)	125

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



7/25/2016 3:13:52 PM
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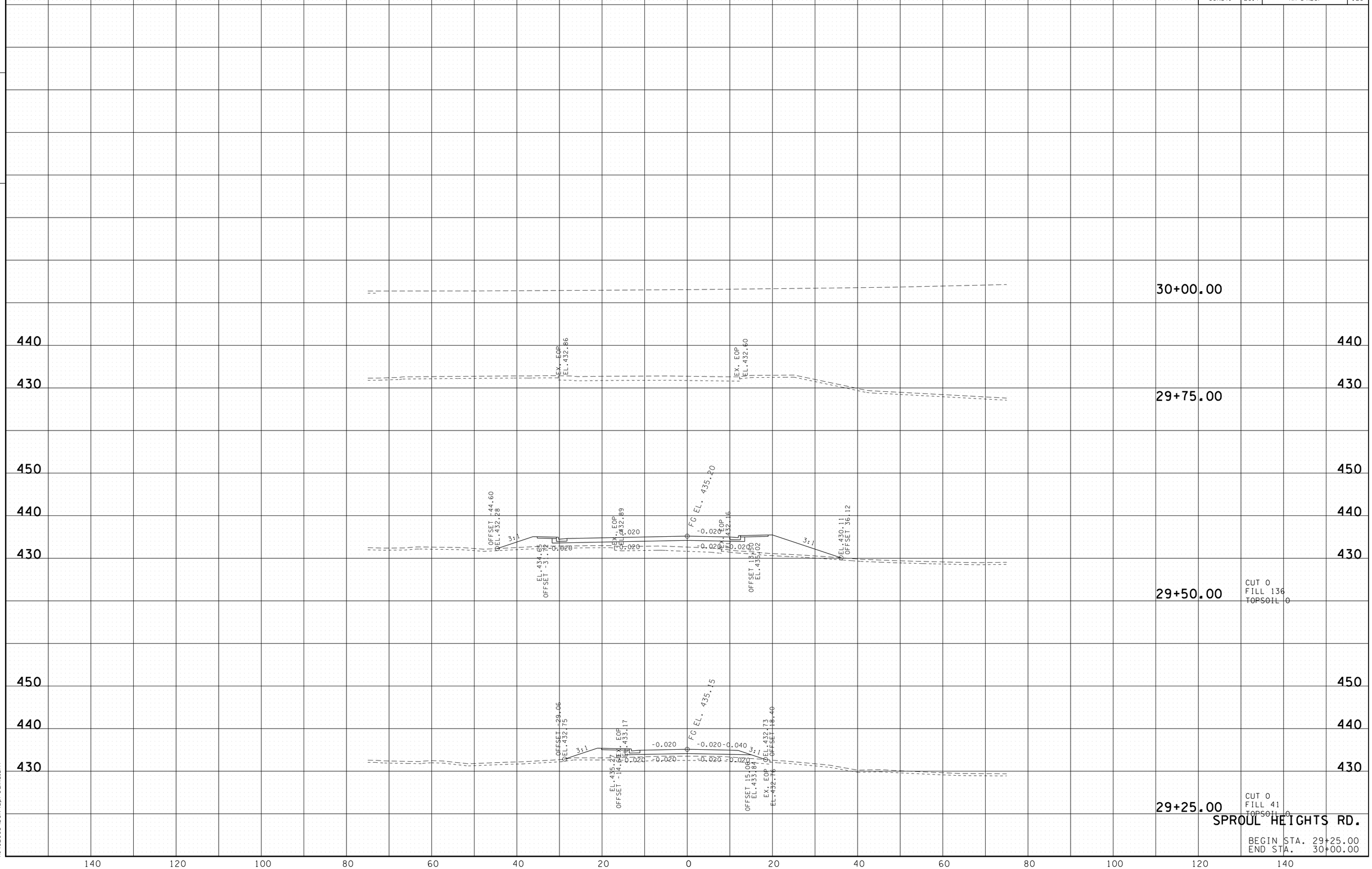
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	119
CONST.	2017	NH-54(26)	126

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

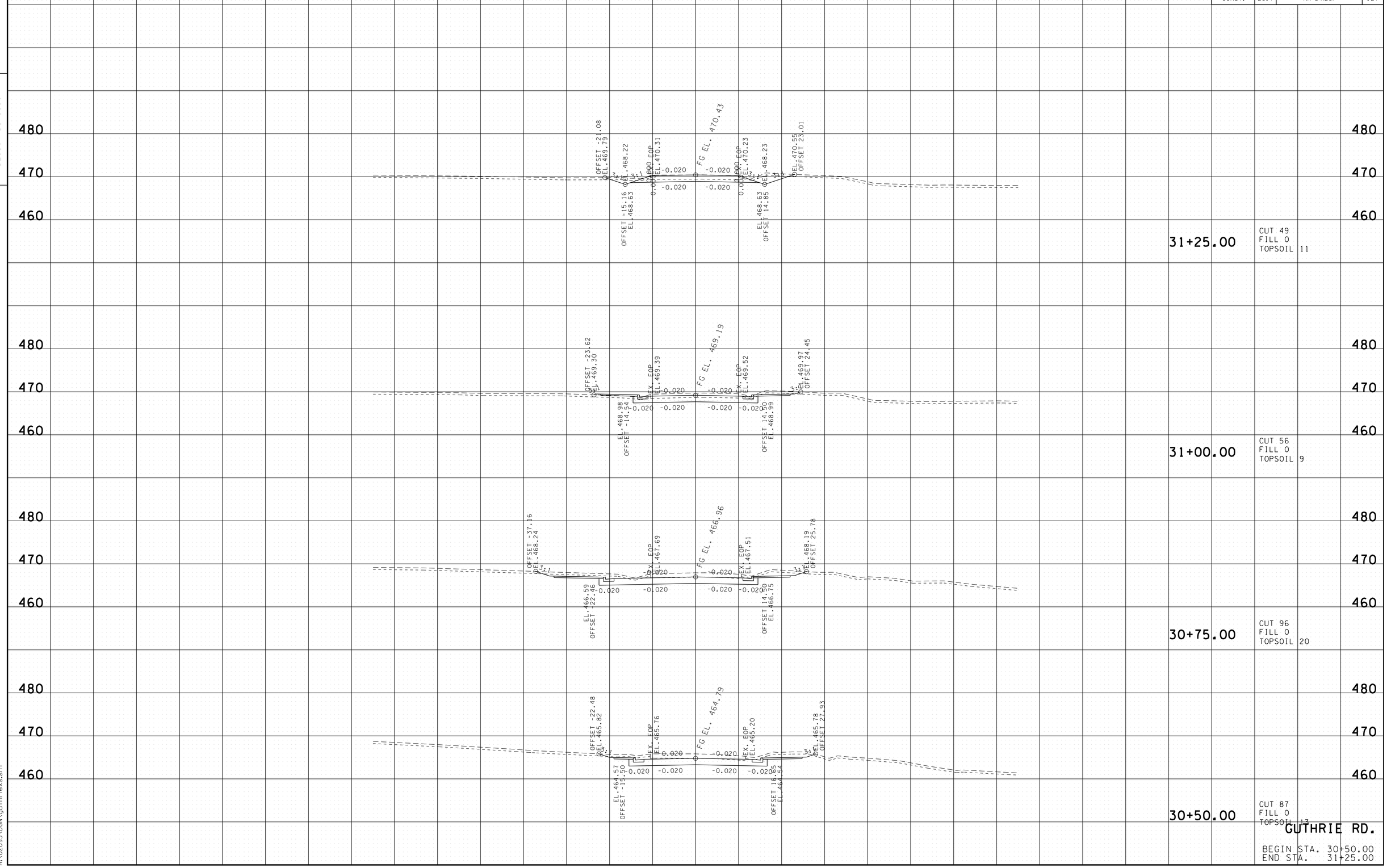


7/25/2016 3:35:52 PM
H:\02093\DGN\sproulxs.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	120
CONST.	2017	NH-54(26)	127

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



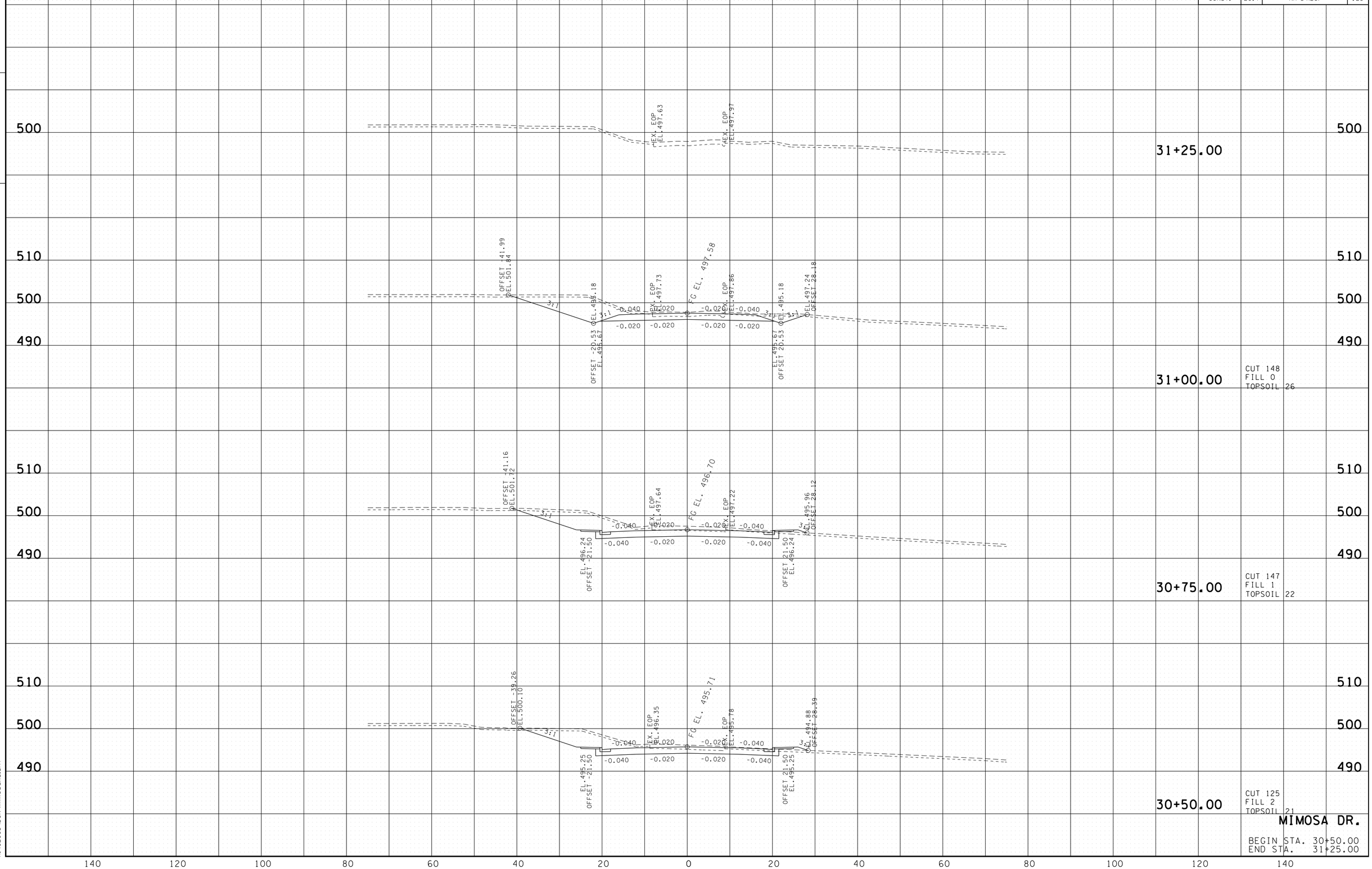
GUTHRIE RD.

BEGIN STA. 30+50.00
END STA. 31+25.00

7/25/2016 3:13:53 PM
H:\02093\DGN\guthrielxs.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	121
CONST.	2017	NH-54(26)	128

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



MIMOSA DR.

BEGIN STA. 30+50.00
END STA. 31+25.00

7/25/2016 3:35:54 PM
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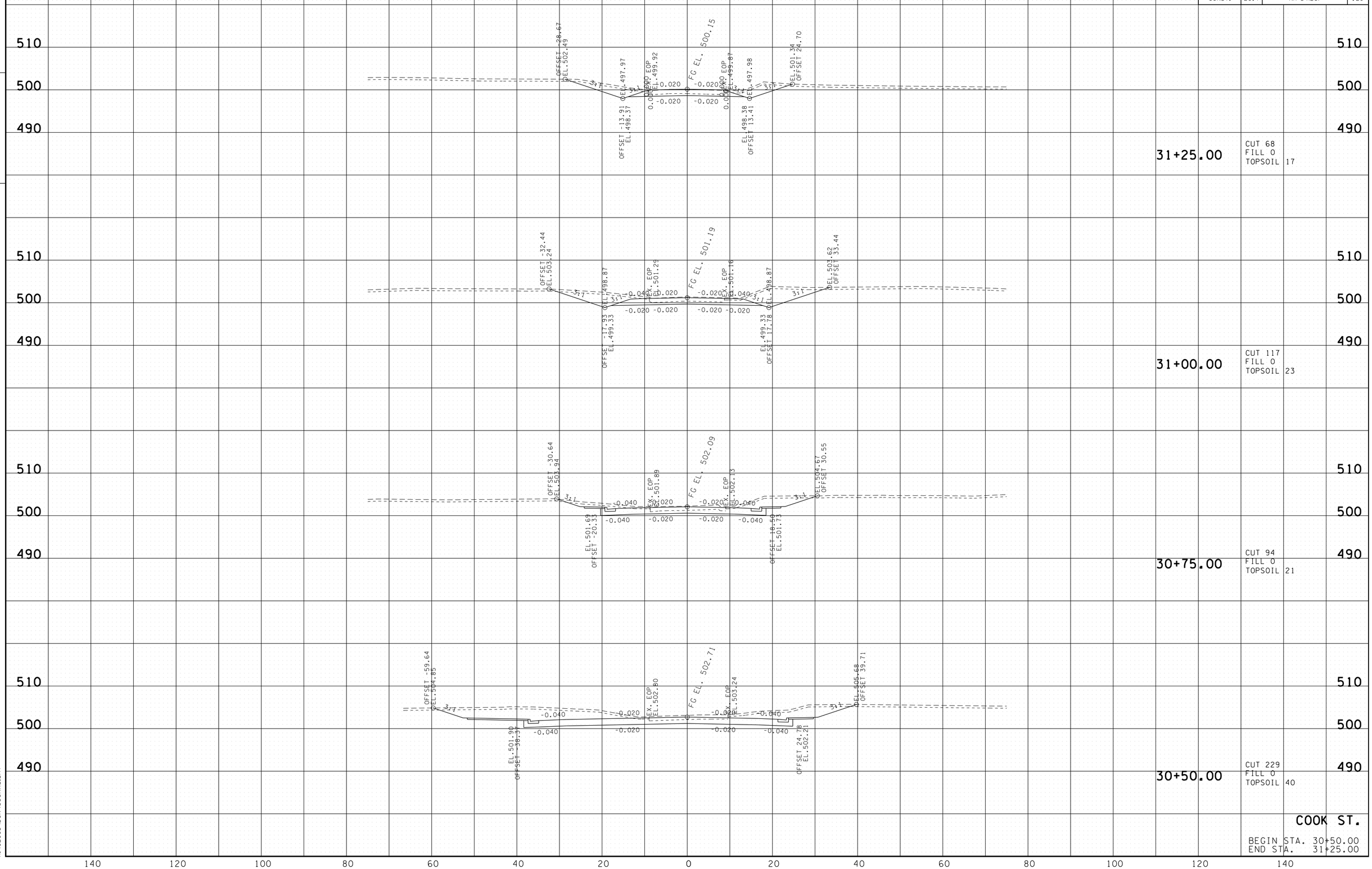
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	122
CONST.	2017	NH-54(26)	129

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



COOK ST.

BEGIN STA. 30+50.00
END STA. 31+25.00

7/25/2016 3:35:54 PM
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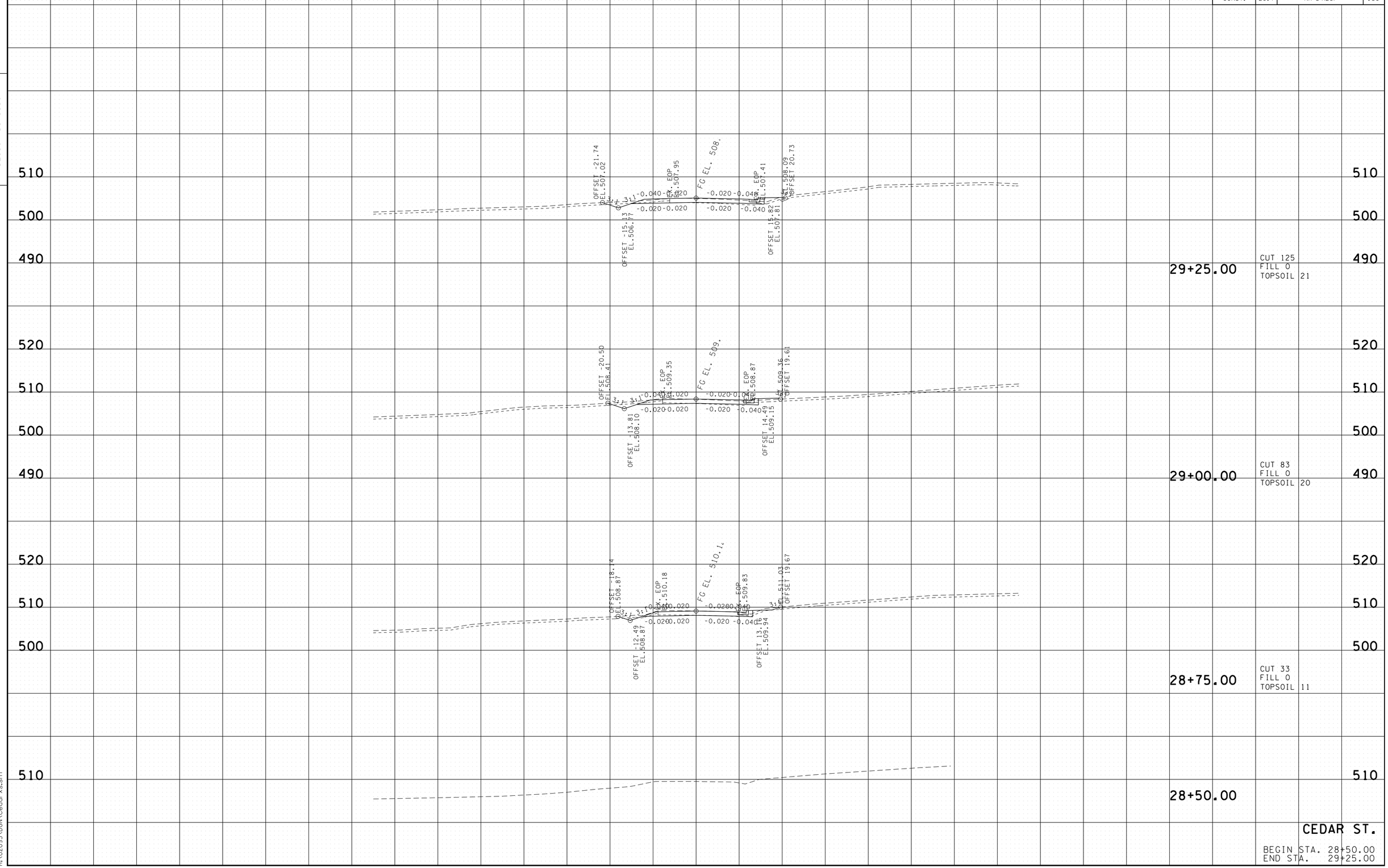
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	123
CONST.	2017	NH-54(26)	130

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



7/25/2016 3:13:55 PM
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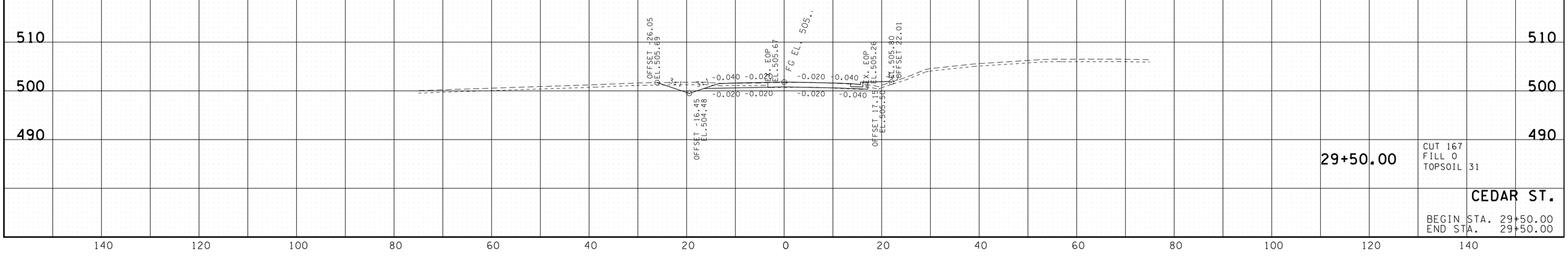
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	124
CONST.	2017	NH-54(26)	131

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



29+50.00

CUT 167
FILL 0
TOPSOIL 31

CEDAR ST.

BEGIN STA. 29+50.00
END STA. 29+50.00

7/25/2016 3:13:55 PM
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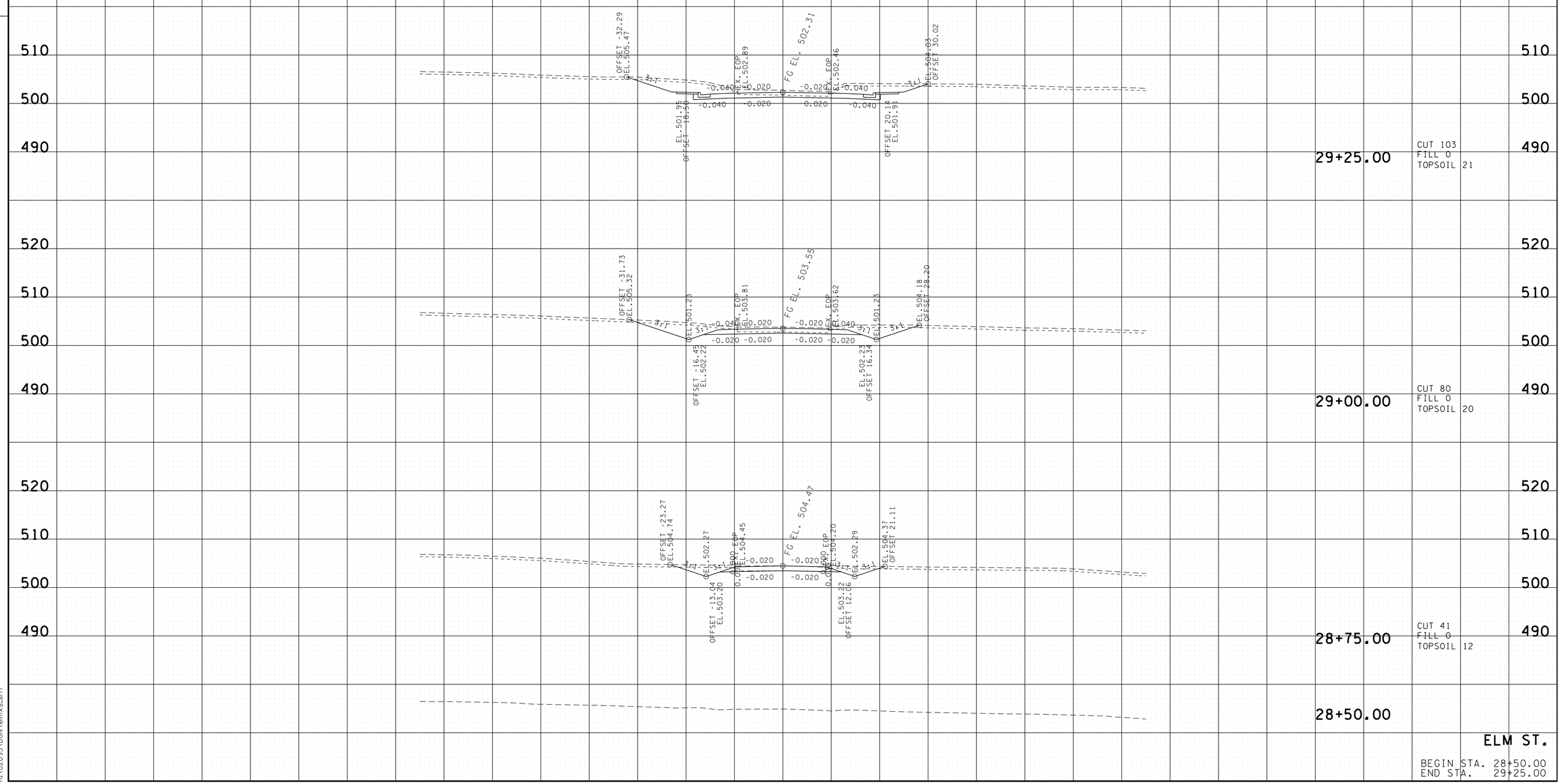
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	125
CONST.	2017	NH-54(26)	132

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



29+25.00 CUT 103 FILL 0 TOPSOIL 21

29+00.00 CUT 80 FILL 0 TOPSOIL 20

28+75.00 CUT 41 FILL 0 TOPSOIL 12

28+50.00

ELM ST.

BEGIN STA. 28+50.00
END STA. 29+25.00

7/25/2016 3:13:56 PM
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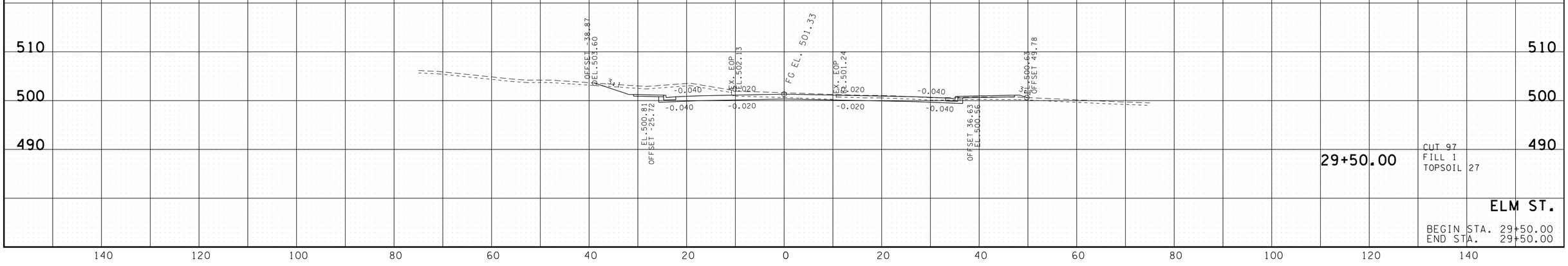
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	126
CONST.	2017	NH-54(26)	133

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



29+50.00

CUT 97
FILL 1
TOPSOIL 27

ELM ST.

BEGIN STA. 29+50.00
END STA. 29+50.00

7/25/2016 3:13:57 PM
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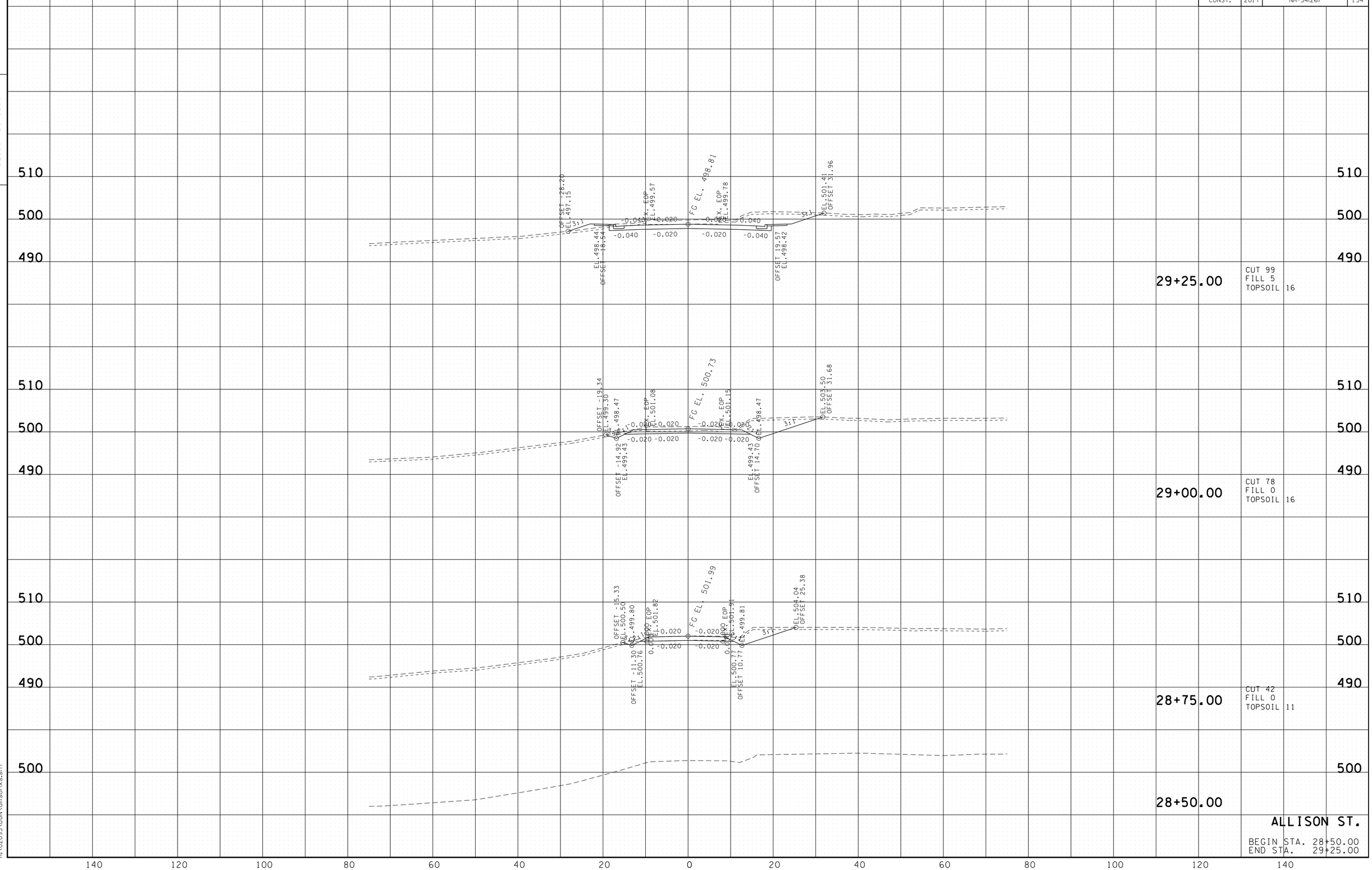
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	127
CONST.	2017	NH-54(26)	134

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



ALLISON ST.

BEGIN STA. 28+50.00
END STA. 29+25.00

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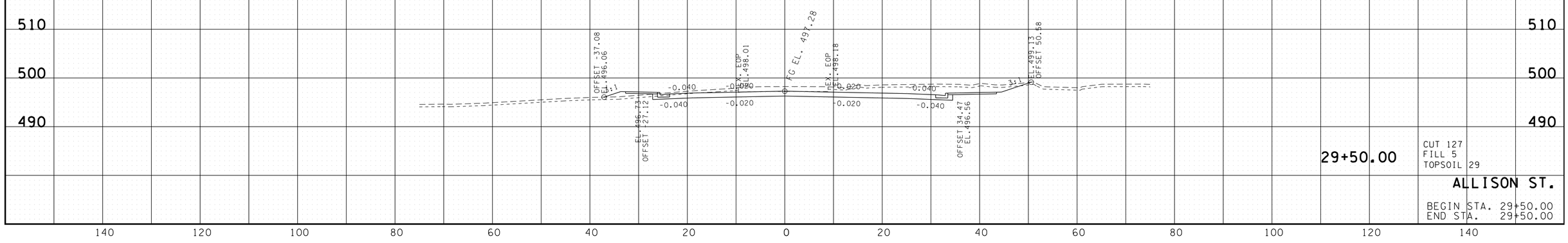
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	128
CONST.	2017	NH-54(26)	135

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



29+50.00

CUT 127
FILL 5
TOPSOIL 29

ALLISON ST.

BEGIN STA. 29+50.00
END STA. 29+50.00

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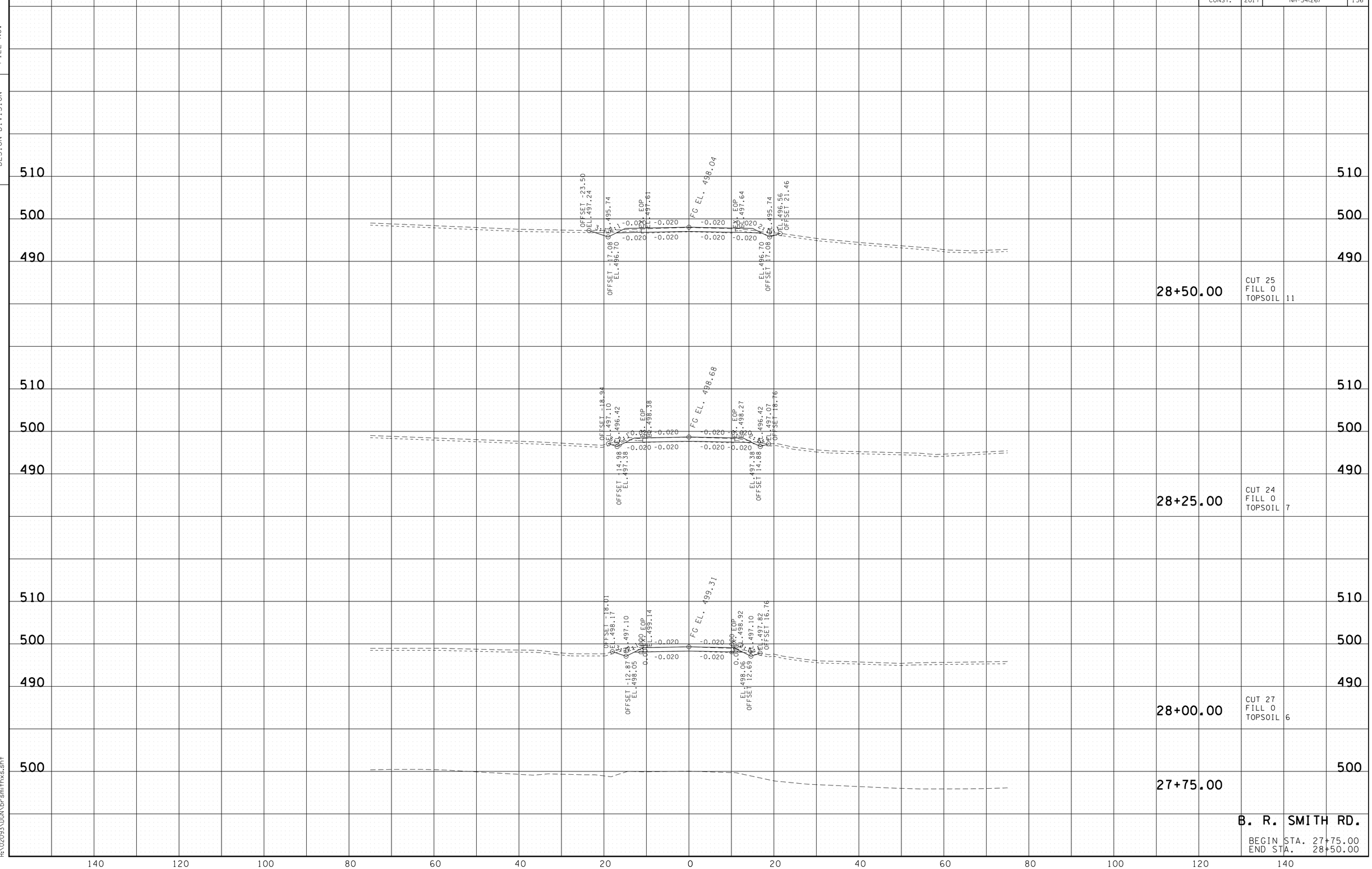
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	129
CONST.	2017	NH-54(26)	136

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



B. R. SMITH RD.

BEGIN STA. 27+75.00
END STA. 28+50.00

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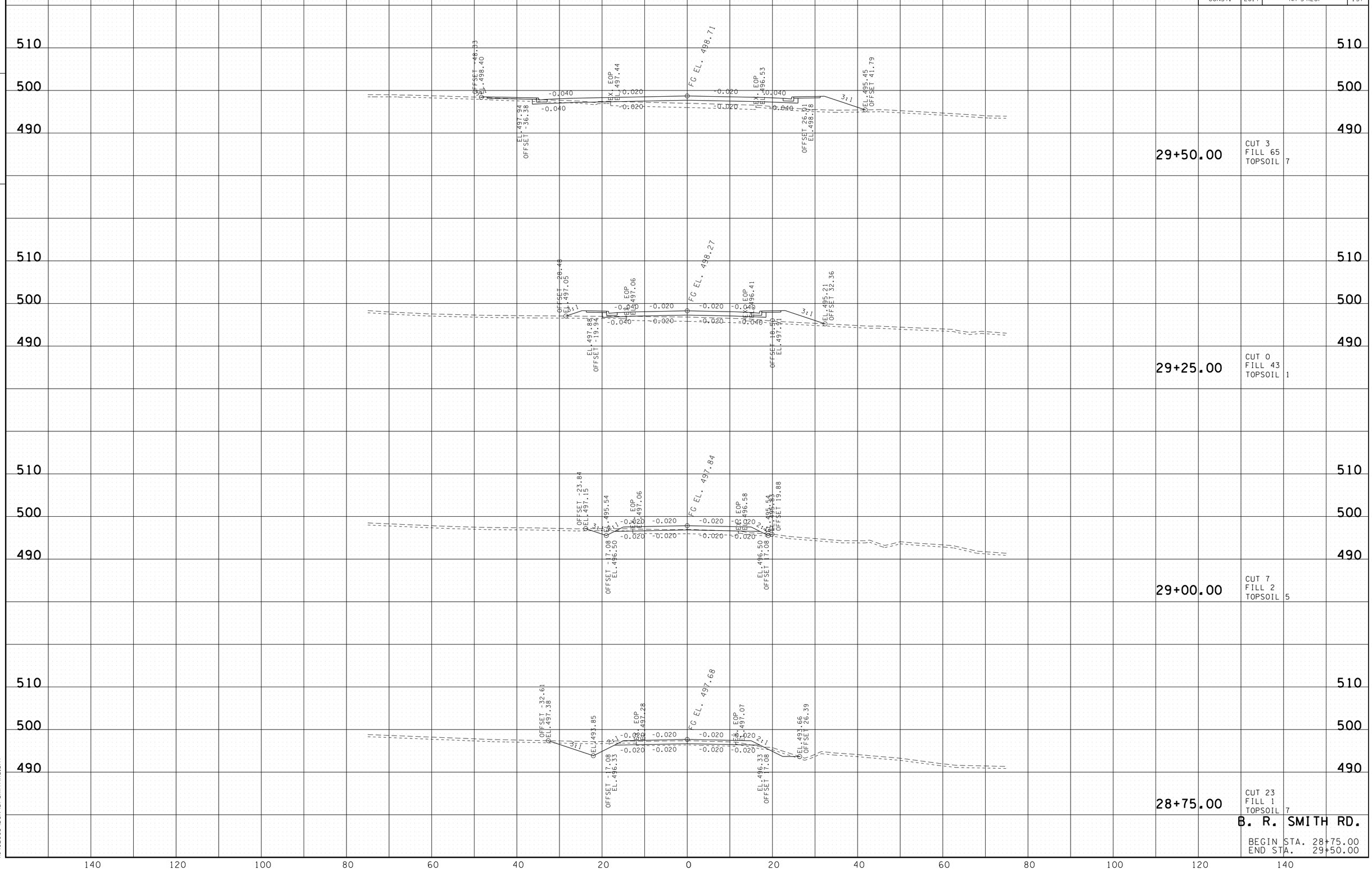
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	130
CONST.	2017	NH-54(26)	137

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



B. R. SMITH RD.

BEGIN STA. 28+75.00
END STA. 29+50.00

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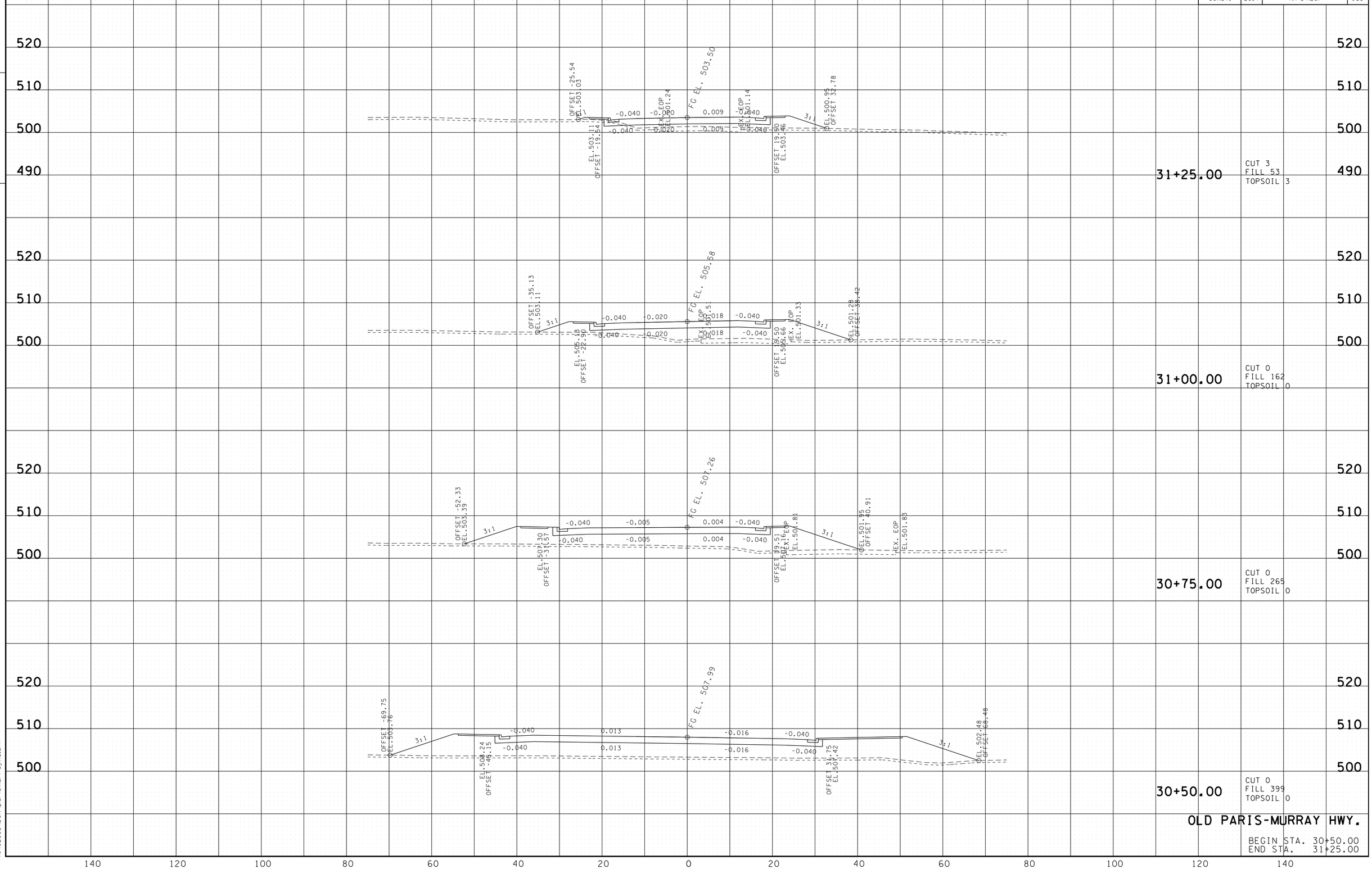
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	131
CONST.	2017	NH-54(26)	138

FILE NO.

TENNESSEE D.O.T.
DESIGN DIVISION



OLD PARIS-MURRAY HWY.

BEGIN STA. 30+50.00
END STA. 31+25.00

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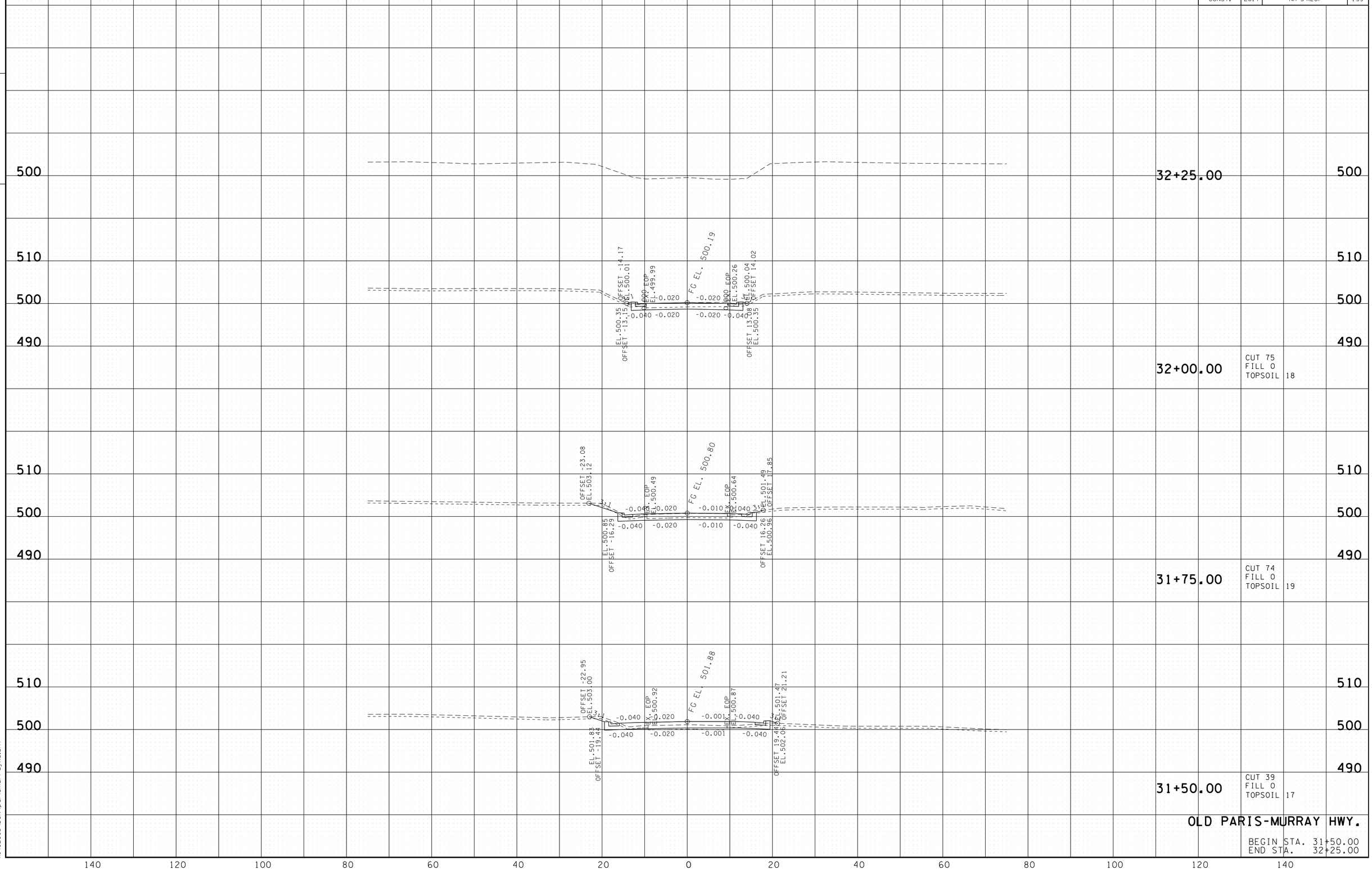
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	132
CONST.	2017	NH-54(26)	139

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



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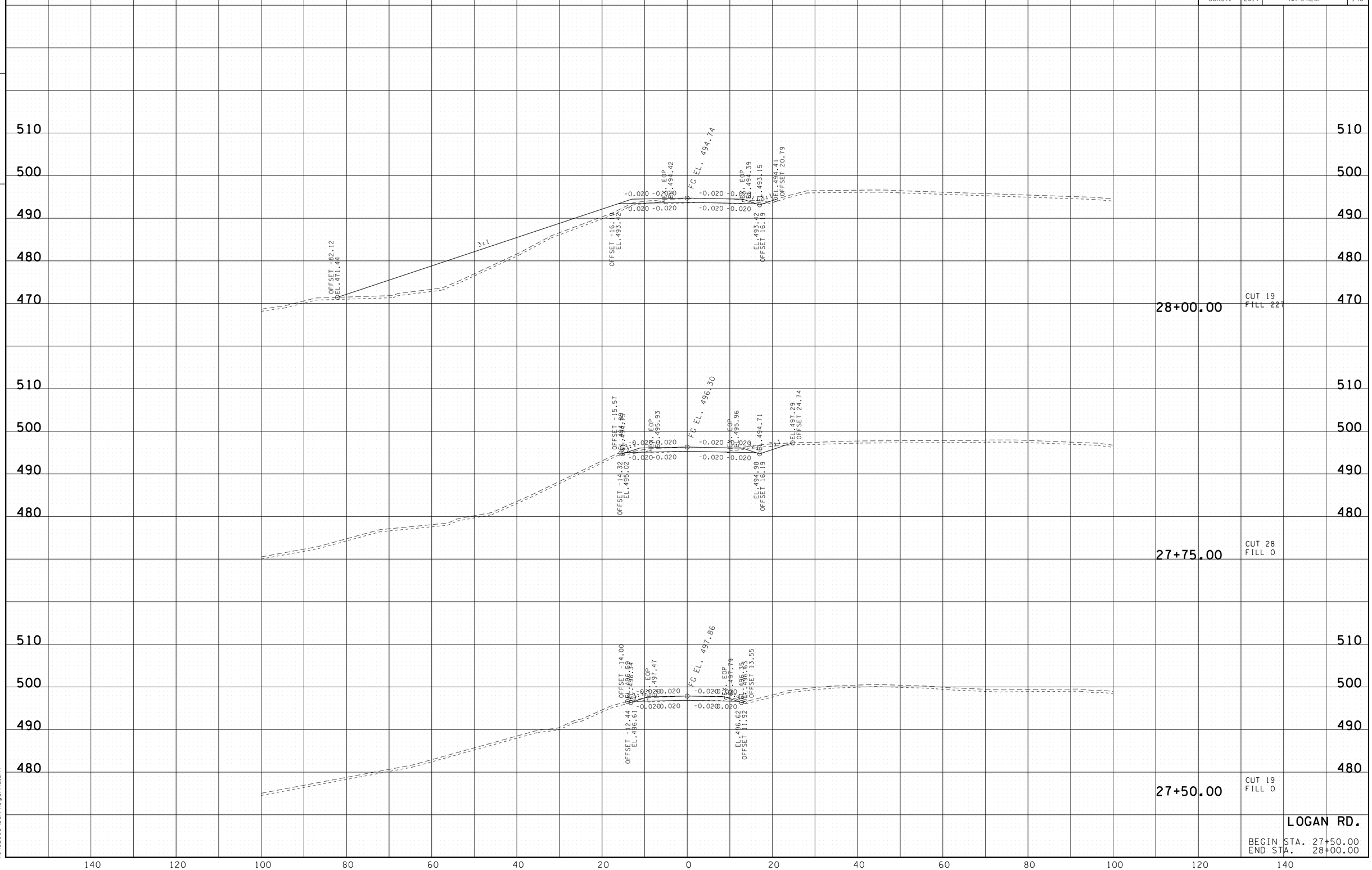
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	133
CONST.	2017	NH-54(26)	140

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



LOGAN RD.

BEGIN STA. 27+50.00
END STA. 28+00.00

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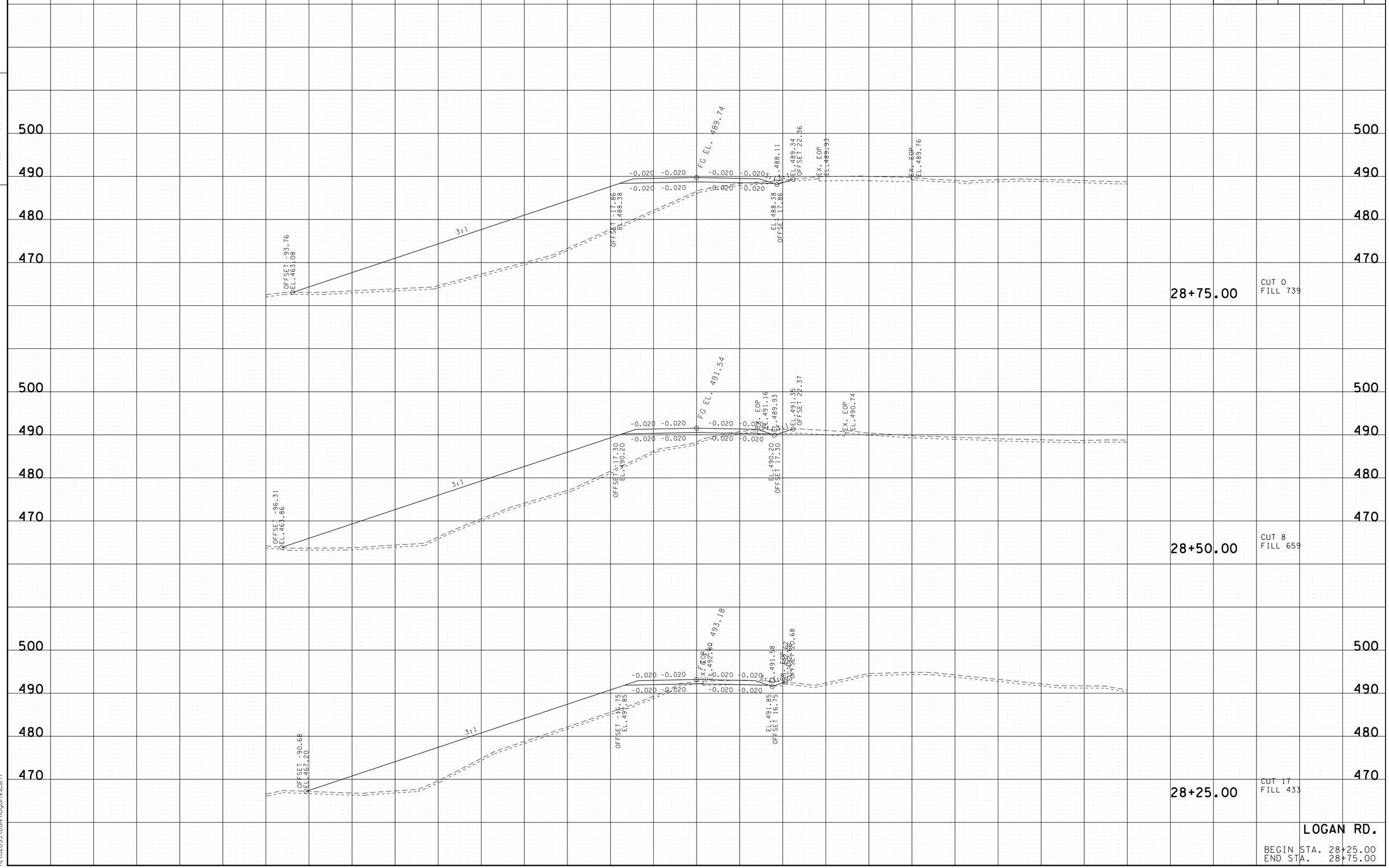
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	134
CONST.	2017	NH-54(26)	141

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



LOGAN RD.

BEGIN STA. 28+25.00
END STA. 28+75.00

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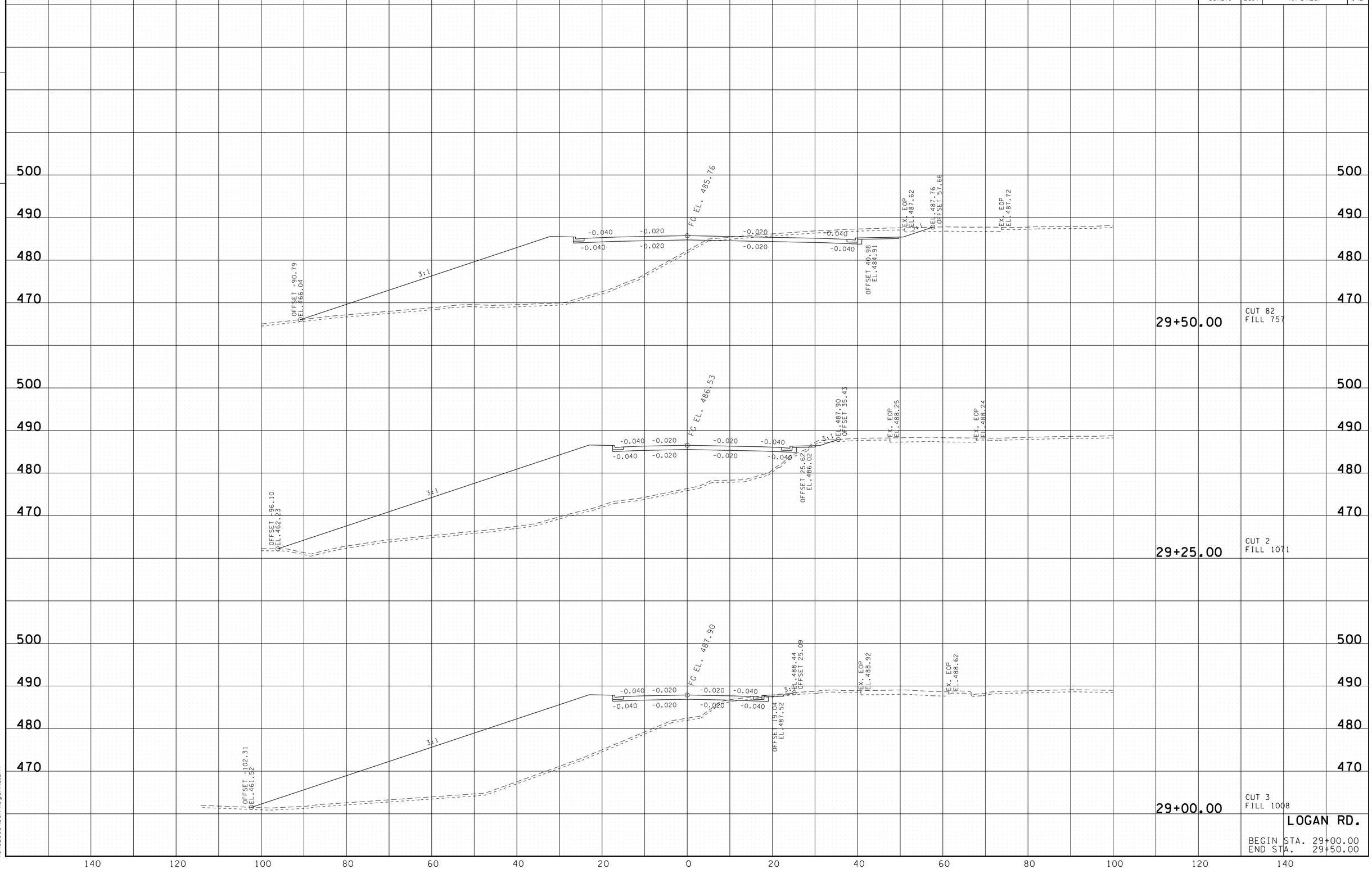
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	135
CONST.	2017	NH-54(26)	142

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



LOGAN RD.

BEGIN STA. 29+00.00
END STA. 29+50.00

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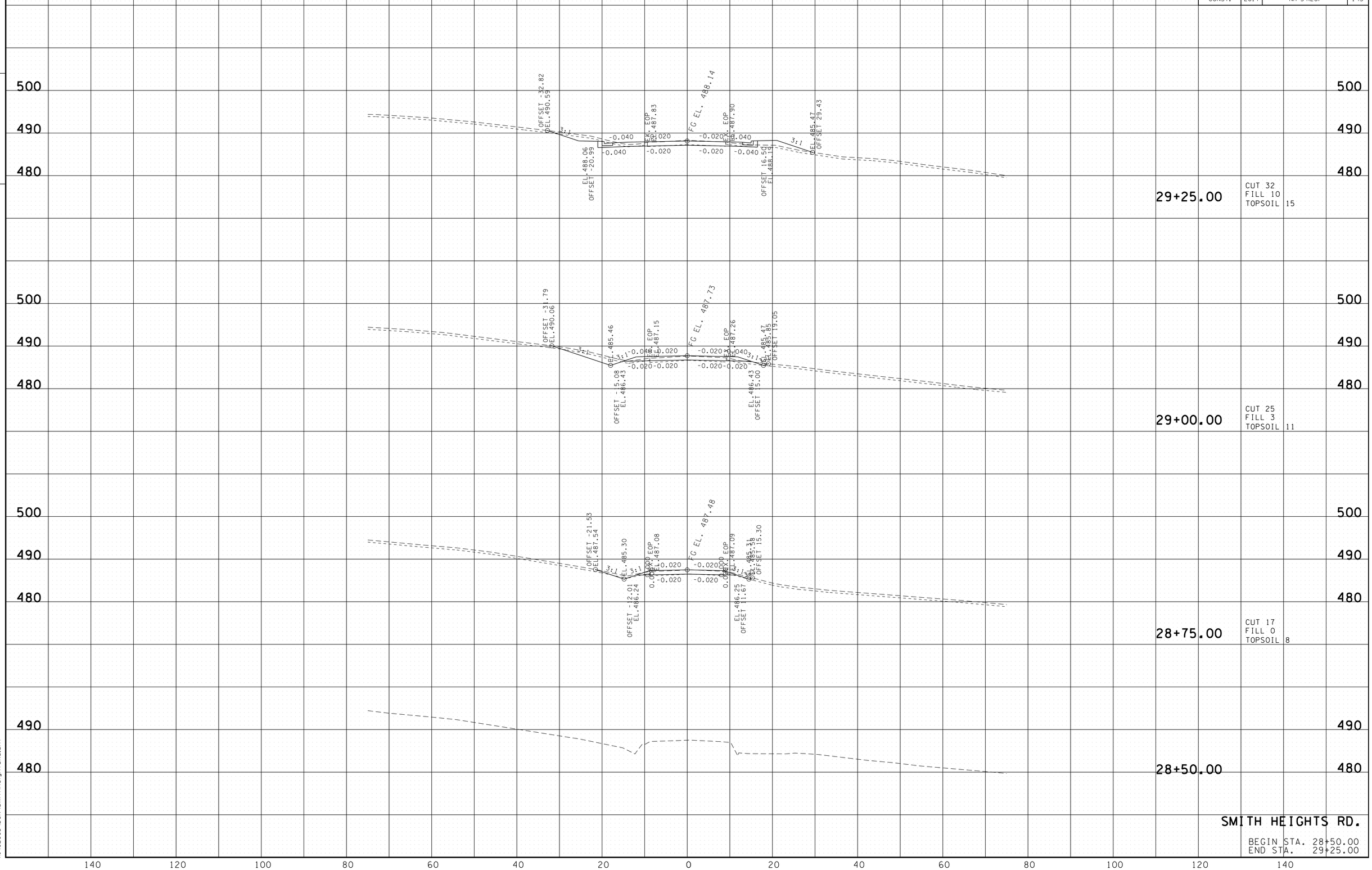
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	136
CONST.	2017	NH-54(26)	143

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



SMITH HEIGHTS RD.

BEGIN STA. 28+50.00
END STA. 29+25.00

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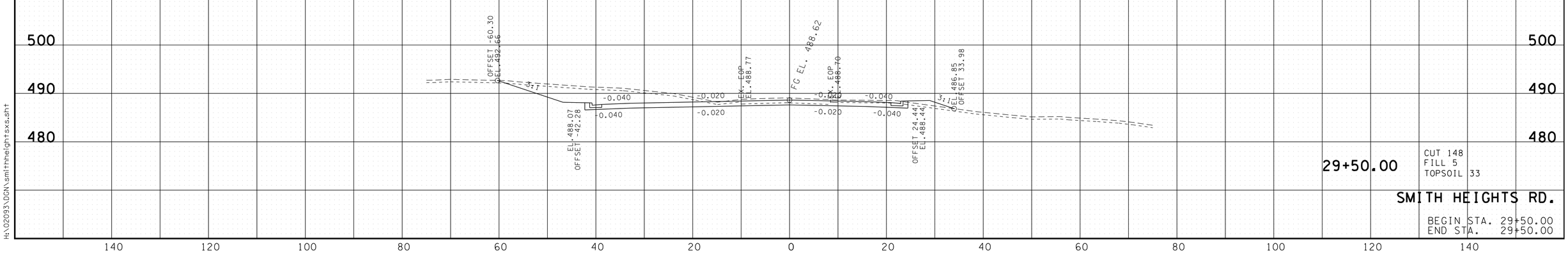
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	137
CONST.	2017	NH-54(26)	144

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



29+50.00

CUT 148
FILL 5
TOPSOIL 33

SMITH HEIGHTS RD.

BEGIN STA. 29+50.00
END STA. 29+50.00

7/25/2016 3:14:03 PM
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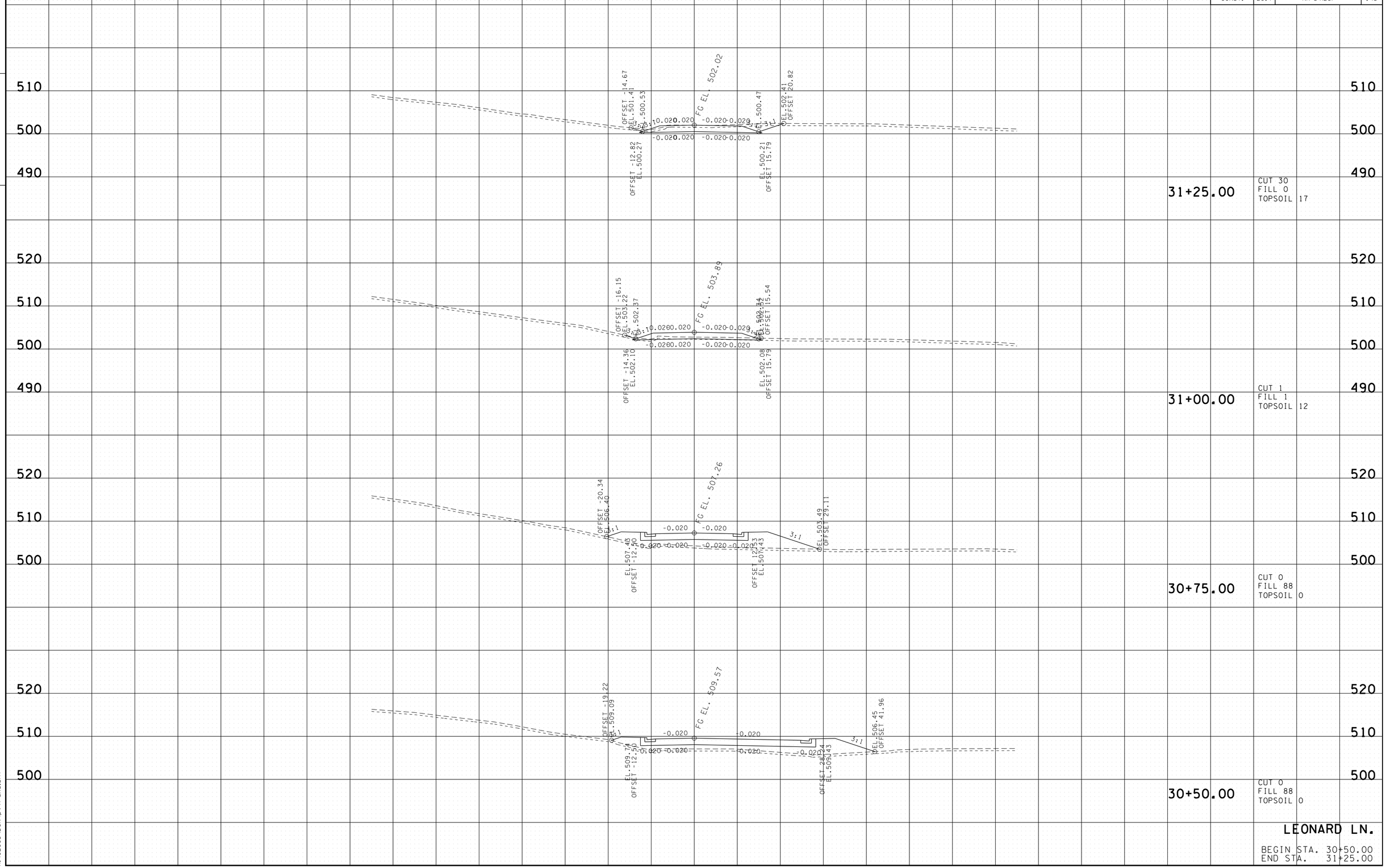
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	138
CONST.	2017	NH-54(26)	145

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



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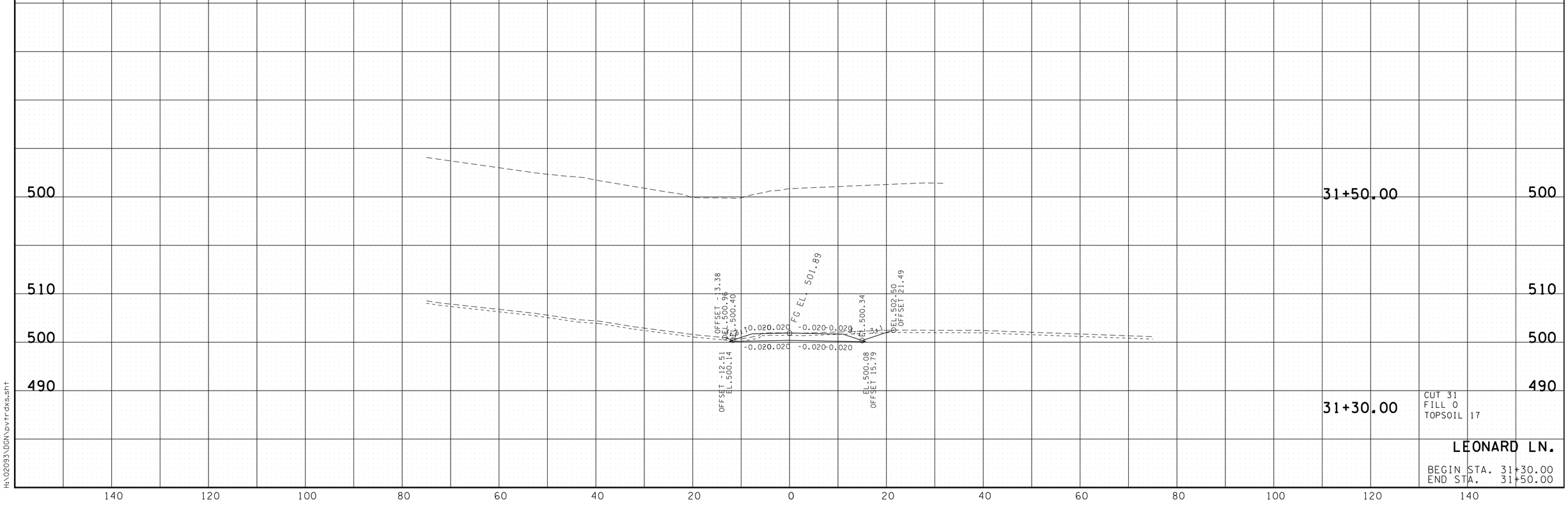
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	139
CONST.	2017	NH-54(26)	146

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



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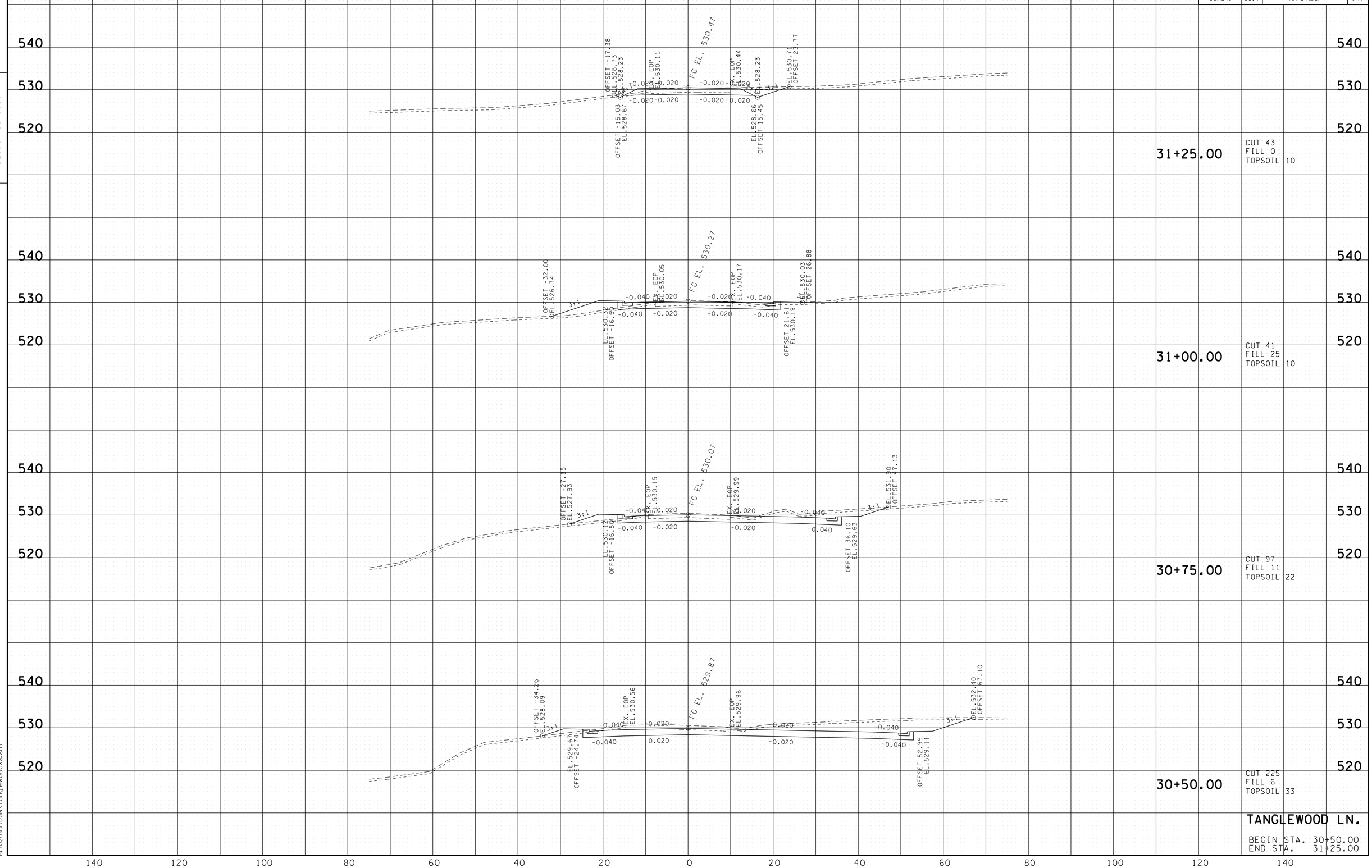
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	140
CONST.	2017	NH-54(26)	147

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



TANGLEWOOD LN.

BEGIN STA. 30+50.00
END STA. 31+25.00

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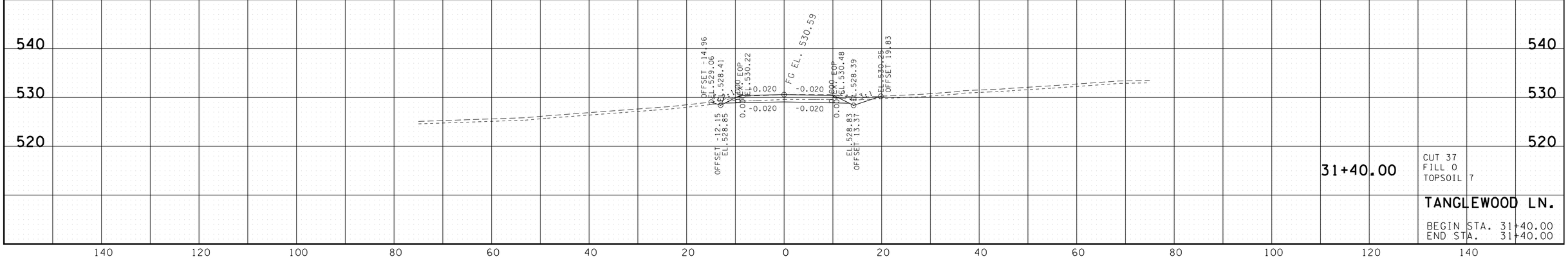
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	141
CONST.	2017	NH-54(26)	148

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



31+40.00

CUT 37
FILL 0
TOPSOIL 7

TANGLEWOOD LN.

BEGIN STA. 31+40.00
END STA. 31+40.00

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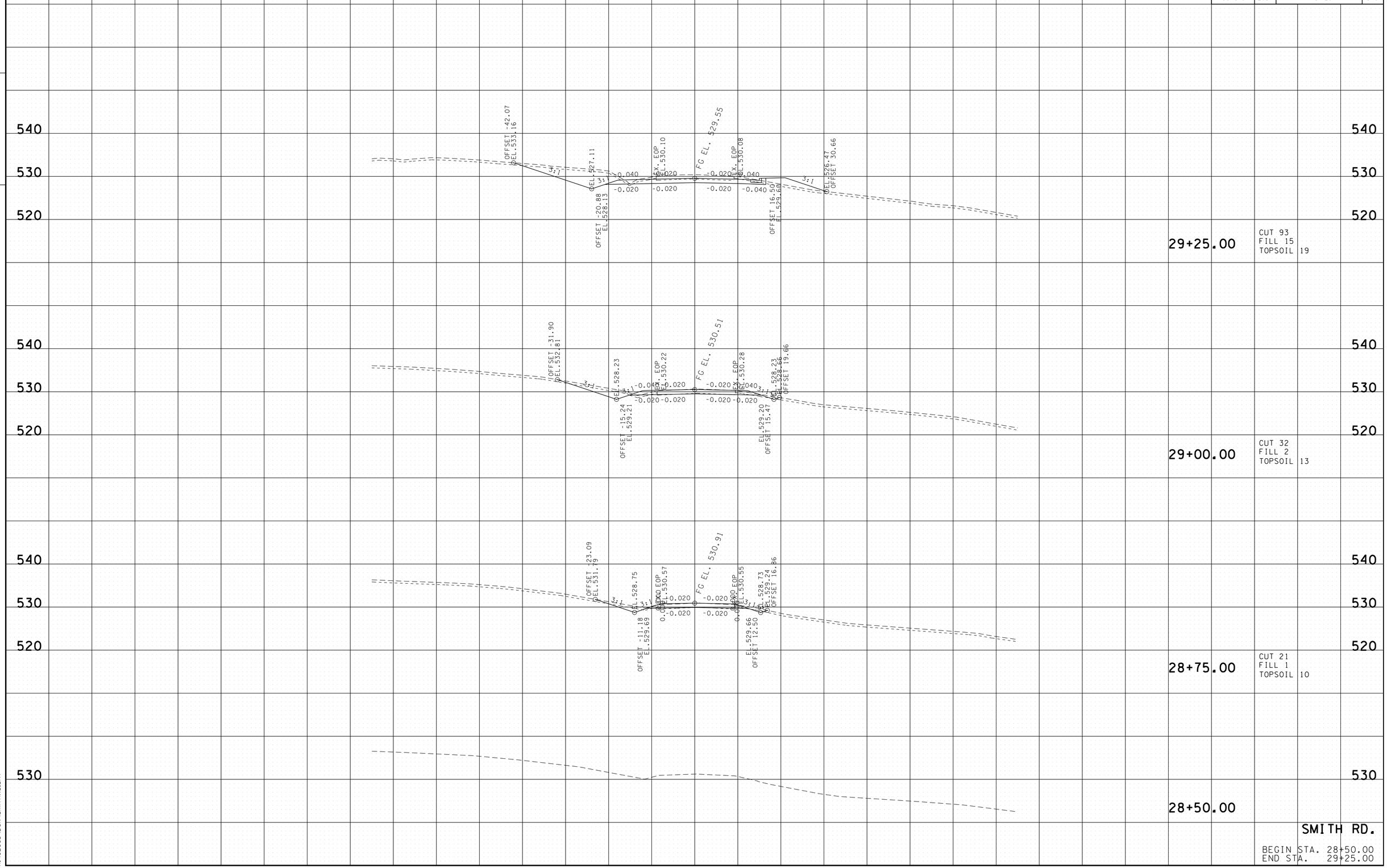
H:\02093\DGN\tanglewoodxs.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	142
CONST.	2017	NH-54(26)	149

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



SMITH RD.

BEGIN STA. 28+50.00
END STA. 29+25.00

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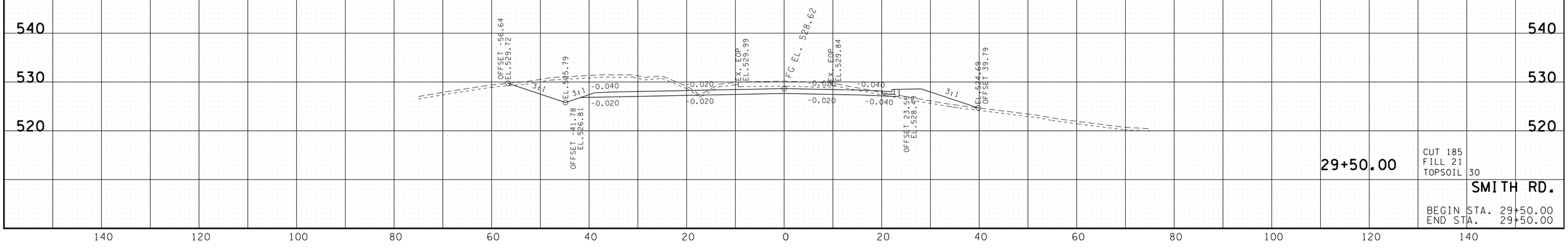
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	143
CONST.	2017	NH-54(26)	150

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



29+50.00

CUT 185
FILL 21
TOPSOIL 30

SMITH RD.

BEGIN STA. 29+50.00
END STA. 29+50.00

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H:\02093\DGN\smithxs.sht

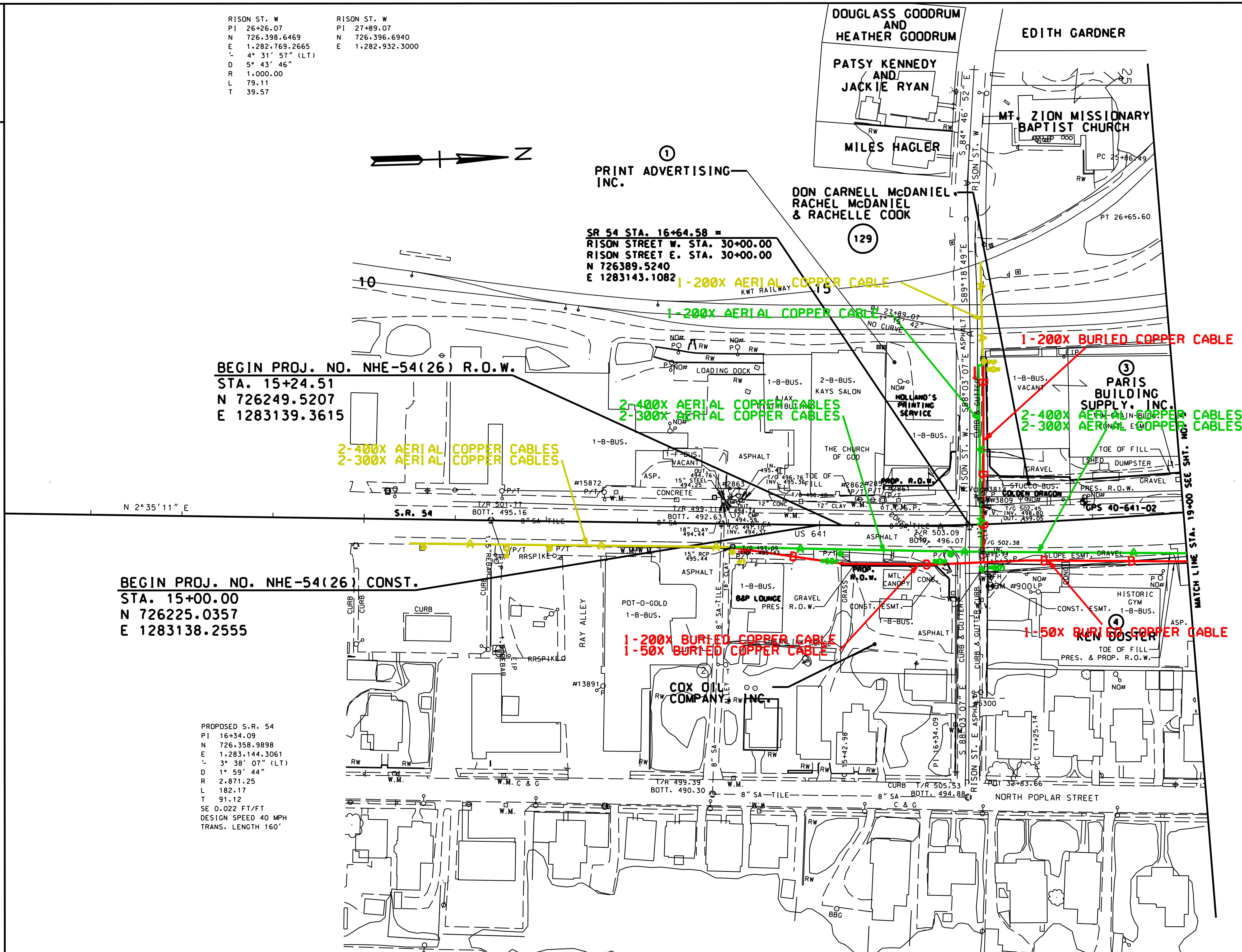
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO. ___

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	4

REV. 06-22-12: REVISED PROP. R.O.W. & ESMTS. TRACTS 1, 2, 3 & 129

REV. 08-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON THE WEST SIDE OF TRACTS 1 & 3

REV. 08-30-12: ADDED A PI & DELTA WITH NO CURVE TO RISON STREET W. TO CLARIFY ALIGNMENT & REMOVED EXTRA CURVE AT BEGINNING OF ALIGNMENT; CORRECTED NAME OF RAILROAD



AT&T TENNESSEE SE

COLOR SCHEME
Yellow : Remain
Red : Install
Green : Abandon/Remove
Blue : Temporary

LEGEND

SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

BEGIN PROJECT TO STA. 19+00

SCALE: 1"=50'

$$$$SYTIME$$$$$$
$$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO. ___

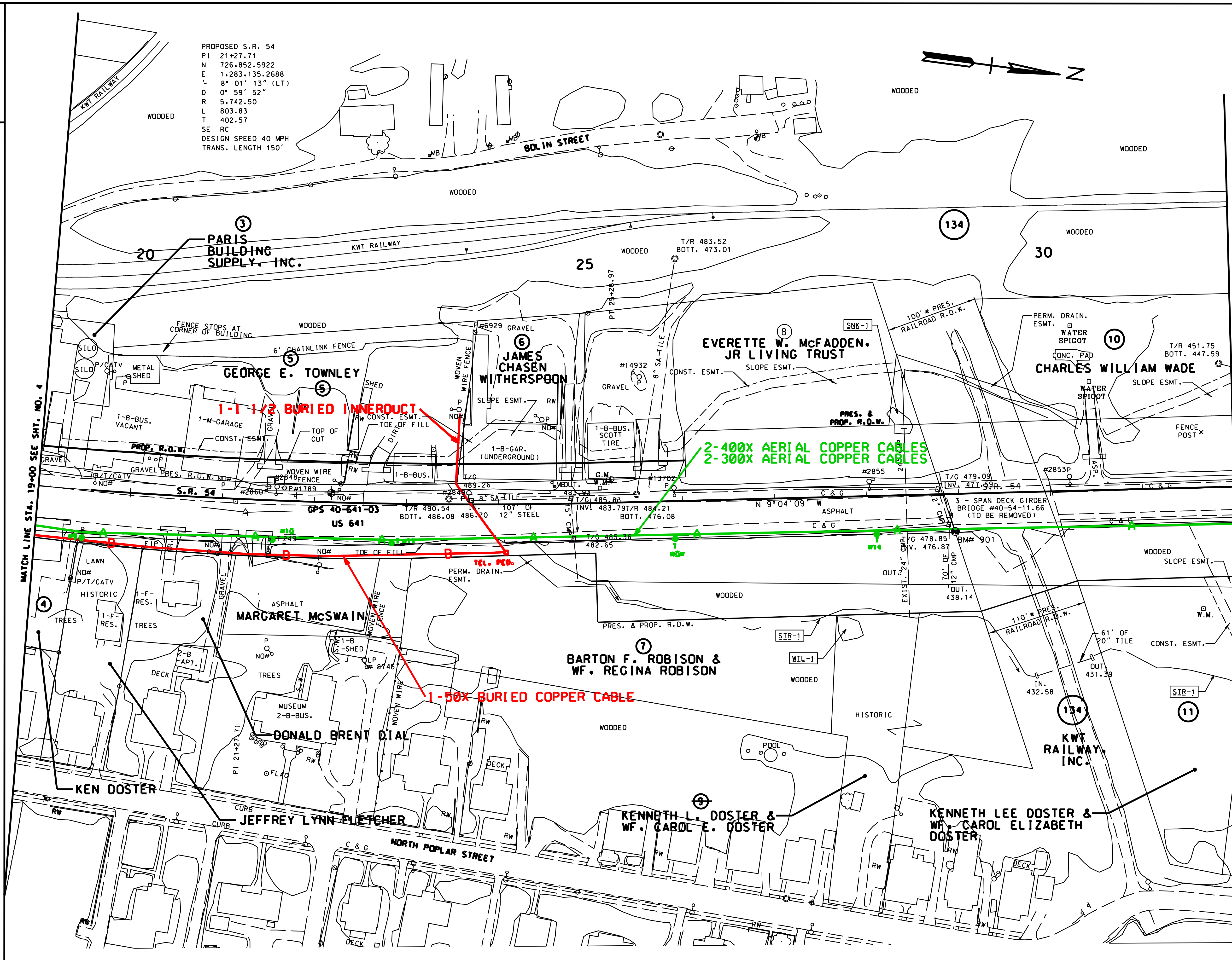
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	5
.	.	.	.
.	.	.	.
.	.	.	.

REV. 06-22-12: ADDED TRACT 134 & REVISED PERM. DRAIN. ESMT. TRACT 10; LABELED EXIST. RAILROAD R.O.W.; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV. 08-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON WEST SIDE OF TRACTS 3, 5, 6, 8 & 10; CLARIFIED PROPERTY LINE BETWEEN TRACTS 3 & 5

REV. 08-30-12: CORRECTED NAME OF RAILROAD; DIMENSIONED PRES. RAILROAD R.O.W.; REVISED PRES. RAILROAD R.O.W. TO CROSS ROADWAY; ADDED PROP. R.O.W. TO ROADWAY CROSSING RAILROAD

REV. 11-05-12: ADDED SURVEY OF FENCE TO TRACT 5



AT&T TENNESSEE SE

COLOR SCHEME
Yellow : Remain
Red : Install
Green : Abandon/Remove
Blue : Temporary

LEGEND
—B—B— BURIED CABLE
—A—A— AERIAL CABLE
—UG—UG— UNDERGROUND CABLE (IN CONDUIT)
—AW—AW— AERIAL WIRE
—BW—BW— BURIED WIRE
—CONDUIT— CONDUIT
—PIPE— PIPE
O POLE
□ PEDESTAL

SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000050 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 19+00 TO STA. 32+00

SCALE: 1″=50′

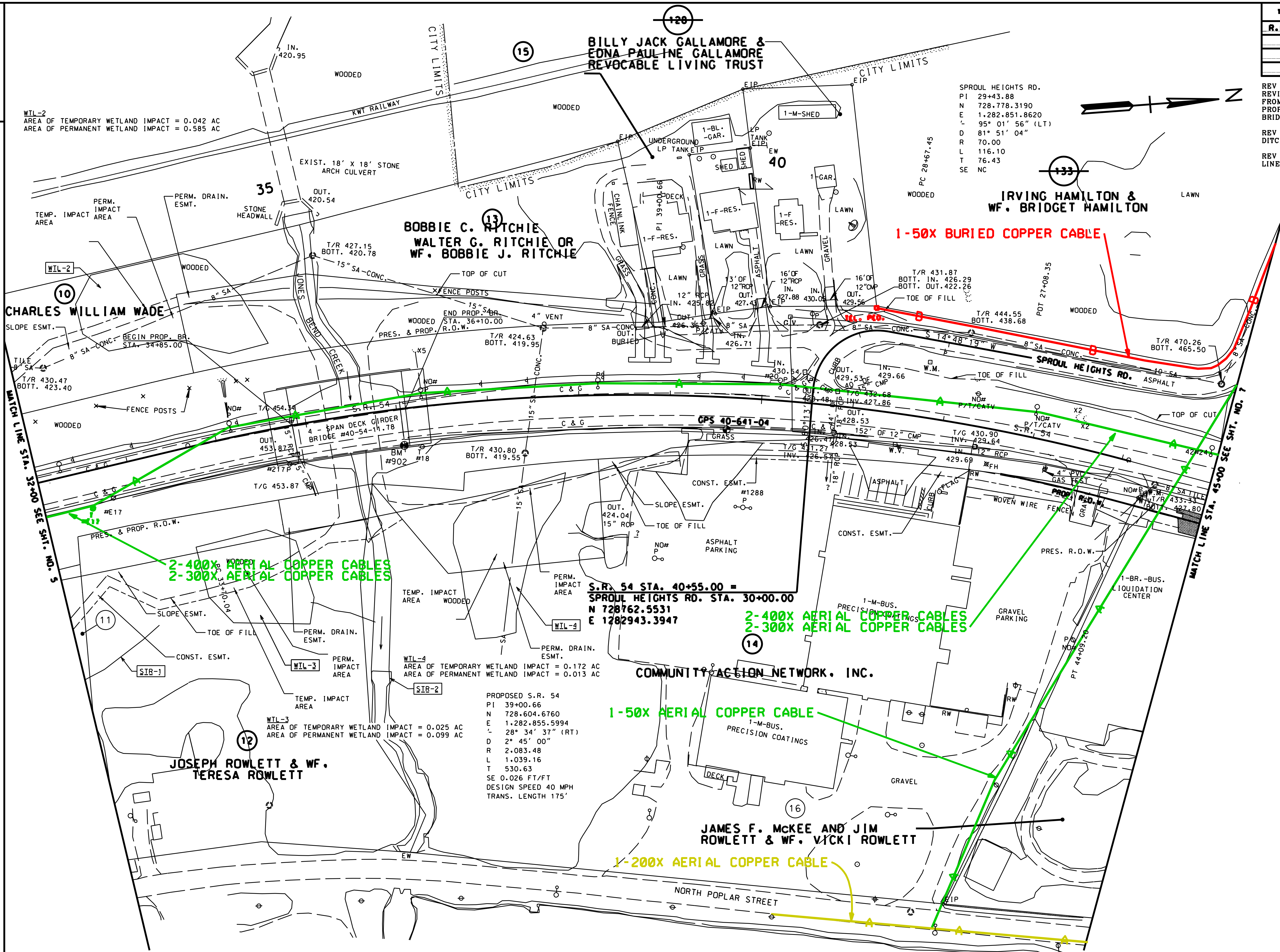
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	6
.	.	.	.
.	.	.	.
.	.	.	.

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

REV 06-22-12: ADDED DRIVE TO TRACT 14 & REVISED CONST. ESMT.; REMOVED PROP. R.O.W. FROM TRACT 133 & LINED THRU TRACT; ADDED PROP. CROSS DRAINS, SPECIAL DITCHES & BRIDGE

REV 07-10-12: REVISED SLOPE LINES & ADDED DITCH FLOW ARROWS LT. STA. 42+00 TO 45+00

REV 08-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON WEST SIDE OF TRACTS 10, 13 & 15



AT&T TENNESSEE SE

TYPE OF FACILITY: TELECOMMUNICATIONS
TYPE OF CONDUCTOR: CABLE CONTAINING POLYETHYLENE INSULATED COPPER CONDUCTORS ... CABLE CONTAINING ... INCHES.
FIBER OPTIC CONDUCTORS ... SIZE: ... PAIR, ... GAUGE COPPER CABLES, OUTSIDE DIAMETER ... INCHES.
ONE ... FIBER OPTIC CABLE, OUTSIDE DIAMETER ... INCHES. CASING REQUIRED? YES ... NO ... CATHODIC
PROTECTION (BONDED): YES ... NO ... MINIMUM LONGITUDINAL BURY: 24 INCHES. BACKFILL TO MEET STATE
REQUIREMENTS. MINIMUM BURY AT LOW POINT OF HIGHWAY CROSS-SECTION: 36 INCHES. BORING METHOD: TAPERED
COMPACTION BIT METHOD. BURIED CABLES WILL BE PLACED 1-5' FROM R/W AND ALL ABOVE GROUND APPEARANCE WILL
BE PLACED WITHIN 1' OF R/W UNLESS OTHERWISE NOTED.

COLOR SCHEME
Yellow : Remain
Red : Install
Green : Abandon/Remove
Blue : Temporary

LEGEND
—B——B— BURIED CABLE
—A——A— AERIAL CABLE
—UG——UG— UNDERGROUND CABLE (IN CONDUIT)
—AW——AW— AERIAL WIRE
—BW——BW— BURIED WIRE
——CONDUIT—— CONDUIT
——PIPE—— PIPE
O POLE
□ PEDESTAL

CITY: Paris
COUNTY: Henry
TITLE/PROJECT: Cable replacement to clear road construction
ENG:
TELCO AUTHORITY:

SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 32+00 TO STA. 45+00

SCALE: 1"=50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

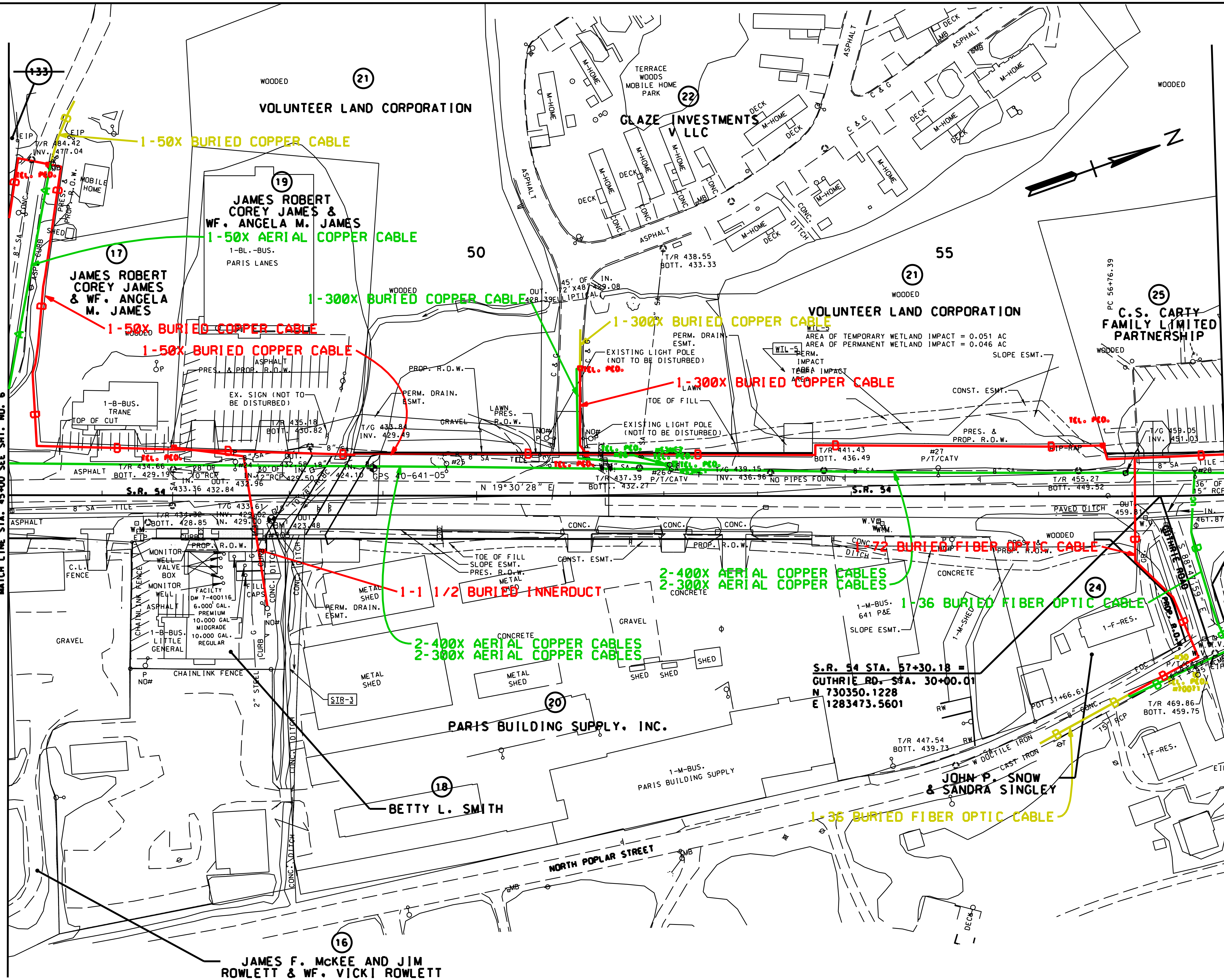
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO. ___

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	7

REV. 06-22-12: ADDED PARKING STRIPING TO TRACTS 17, 19 & 25; REMOVED NOTES REGARDING QUANTITY OF PARKING SPACES FROM TRACTS 17, 18, 19; ADDED NOTES TO AVOID DISTURBANCE OF EXISTING FEATURES TRACTS 19 & 22; ADDED DRIVE TRACTS 18 & 19; ADDED PROP. BRIDGE & SPECIAL DITCH; ADDED PERM. DRAIN. ESMT. TRACTS 18 & 19; REVISED PERM. DRAIN. ESMT. TRACT 20

REV. 08-10-12: ADDED DRIVE LT. STA. 57+23; ADDED DRIVE RT. STA. 47+44.53 & REVISED CONST. ESMT. TRACT 18

REV. 08-30-12: CORRECTED GUTHRIE RD. STATION & COORDINATES AT ALIGNMENT CROSSING



AT&T TENNESSEE SE

COLOR SCHEME
Yellow : Remain
Red : Install
Green : Abandon/Remove
Blue : Temporary

LEGEND
—B—B— BURIED CABLE
—A—A— AERIAL CABLE
—UG—UG— UNDERGROUND CABLE IN CONDUIT
—AW—AW— AERIAL WIRE
—BW—BW— BURIED WIRE
—CONDUIT— CONDUIT
—PIPE— PIPE
POLE
PEDESTAL

SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 45+00 TO STA. 58+00

SCALE: 1"=50'

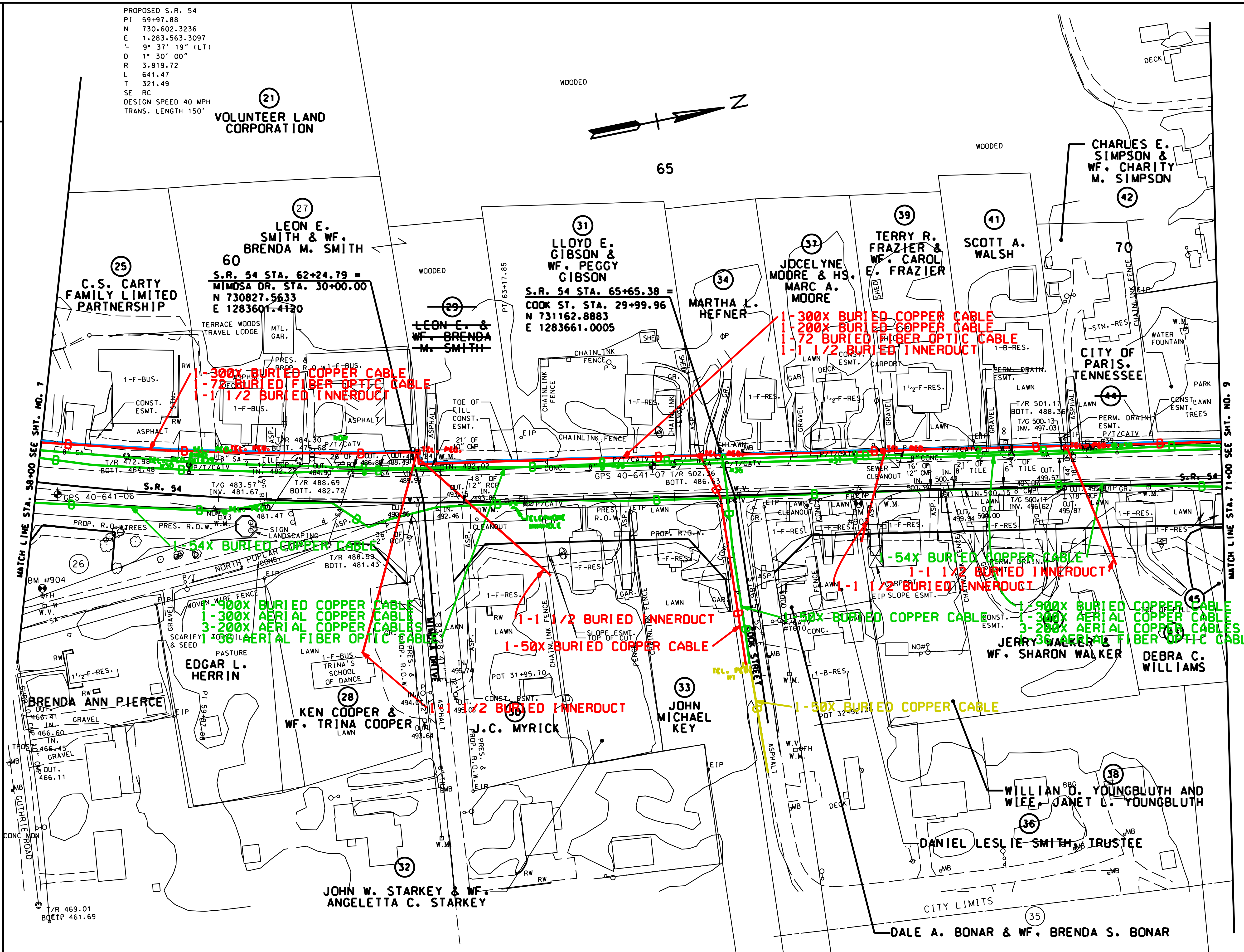
$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	8

REV. 06-22-12: ADDED DRIVE TO TRACT 28: UPDATED TOPO TRACT 25: COMBINED TRACTS 27 & 29. LINED THRU TRACT 29: ADDED PROP. CROSS DRAIN

REV. 08-30-12: CORRECTED COOK ST STATION & COORDINATES AT ALIGNMENT CROSSING

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



AT&T TENNESSEE SE

COLOR SCHEME
Yellow : Remain
Red : Install
Green : Abandon/Remove
Blue : Temporary

LEGEND
—B——B— BURIED CABLE
—A——A— AERIAL CABLE
—UG——UG— UNDERGROUND CABLE IN CONDUIT
—AW——AW— AERIAL WIRE
—BW——BW— BURIED WIRE
—CONDUIT— CONDUIT
—PIPE— PIPE
O POLE
□ PEDESTAL

SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

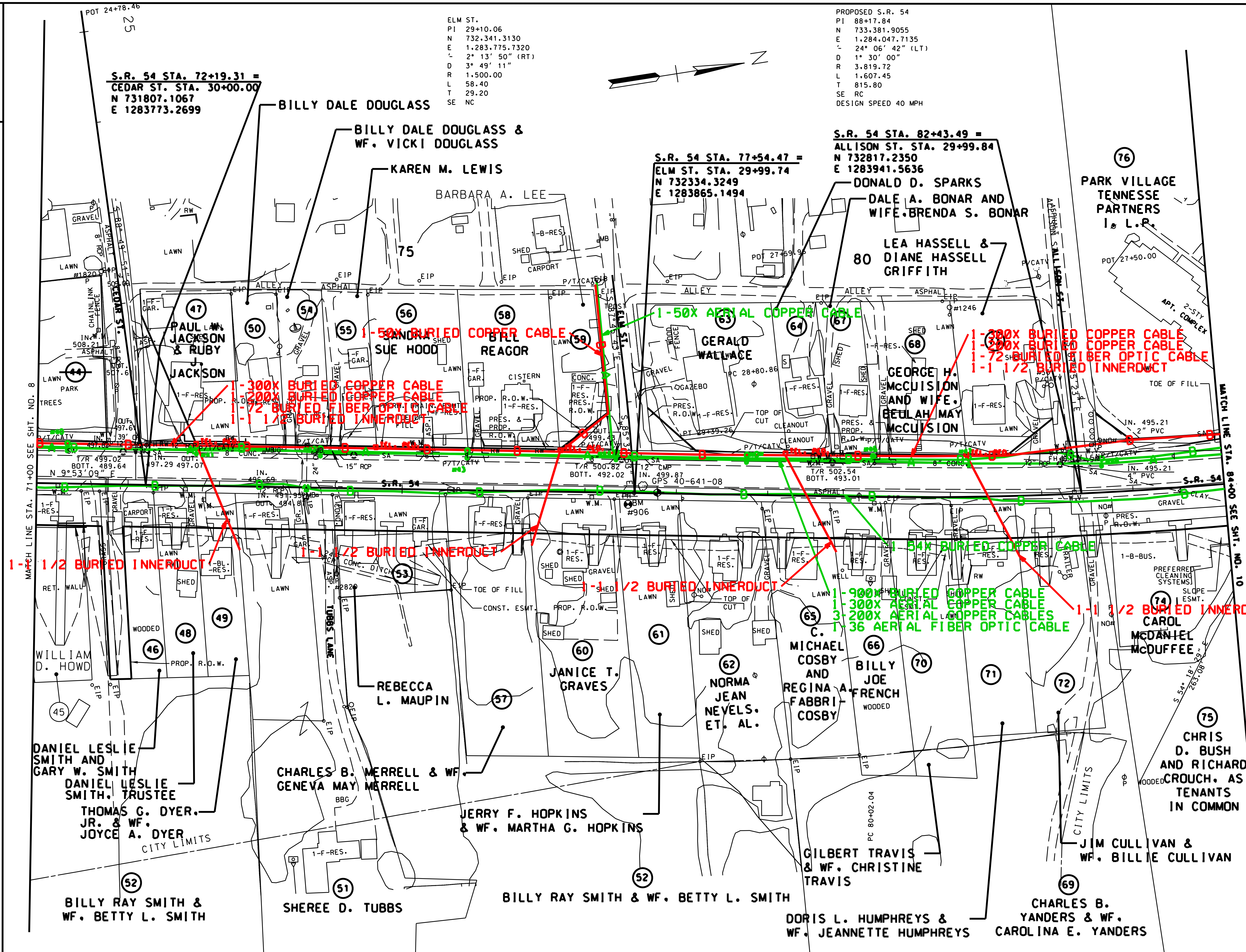
PRESENT LAYOUT

STA. 58+00 TO STA. 71+00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	9

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



REV 06-22-12: ADDED TRACT 45 INFO: ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV 08-10-12: REVISED DRAIN. ESMT. TRACT 53

REV 08-30-12: CORRECTED ELM ST STATION & COORDINATES AT ALIGNMENT CROSSING; CORRECTED ALLISON ST. STATION & COORDINATES AT ALIGNMENT CROSSING

REV 11-05-12: CHANGED OWNER NAME TRACT 63; REVISED PROPERTY LINES ON TRACTS 62, 65, 66, 70, 71 & 72

AT&T TENNESSEE SE

COLOR SCHEME
Yellow : Remain
Red : Install
Green : Abandon/Remove
Blue : Temporary

LEGEND
—B—B— BURIED CABLE
—A—A— AERIAL CABLE
—UG—UG— UNDERGROUND CABLE (IN CONDUIT)
—AW—AW— AERIAL WIRE
—BW—BW— BURIED WIRE
—CONDUIT— CONDUIT
—PIPE— PIPE
O POLE
□ PEDESTAL

SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000050 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 71+00 TO STA. 84+00

SCALE: 1"=50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	10
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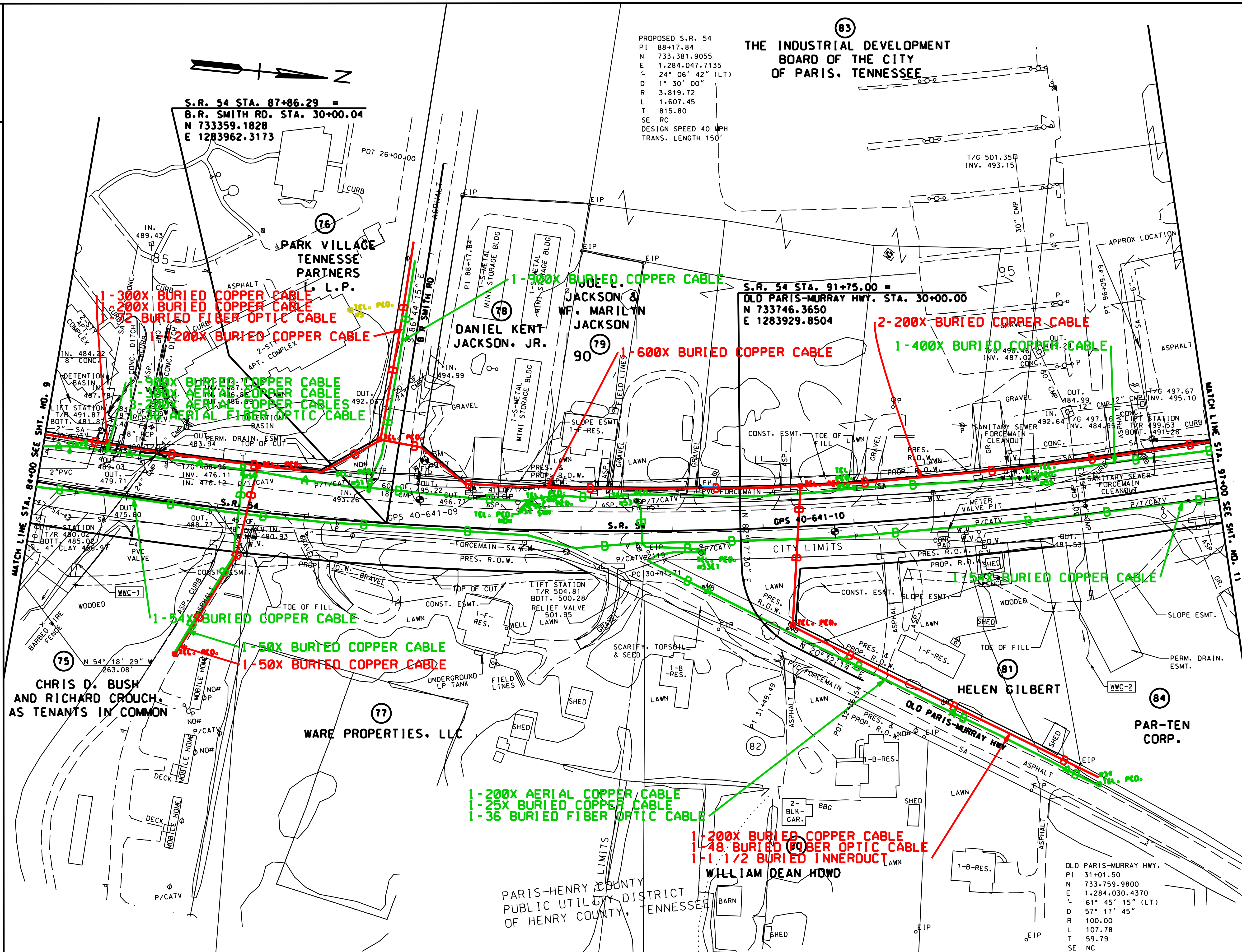
.	.	.	.
.	.	.	.

REV 06-22-12: REMOVED RESIDENTIAL STRUCTURES FROM TRACT 83; ADDED DRIVE TO TRACT 78; REVISED DRAINAGE ESMT. TRACT 76; REMOVED DRAIN. ESMTS. FROM TRACT 83 NEAR STA. 90+50 & 91+50 LT.; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV 08-10-12: REVISED DRAIN. ESMT. TRACT 75; ADDED DRAIN. ESMT. TRACT 76

REV 08-30-12: CORRECTED B.R. SMITH RD. STATION & COORDINATES AT ALIGNMENT CROSSING

REV 11-05-12: CHANGED OWNER NAME TRACTS 77 & 84



AT&T TENNESSEE SE

COLOR SCHEME
Yellow : Remain
Red : Install
Green : Abandon/Remove
Blue : Temporary

LEGEND
—B— BURIED CABLE
—A— AERIAL CABLE
—UG— UNDERGROUND CABLE (IN CONDUIT)
—AW— AERIAL WIRE
—BW— BURIED WIRE
—CONDUIT— CONDUIT
—PIPE— PIPE
O POLE
□ PEDESTAL

SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TCRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 84+00 TO STA. 97+00

SCALE: 1"=50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$

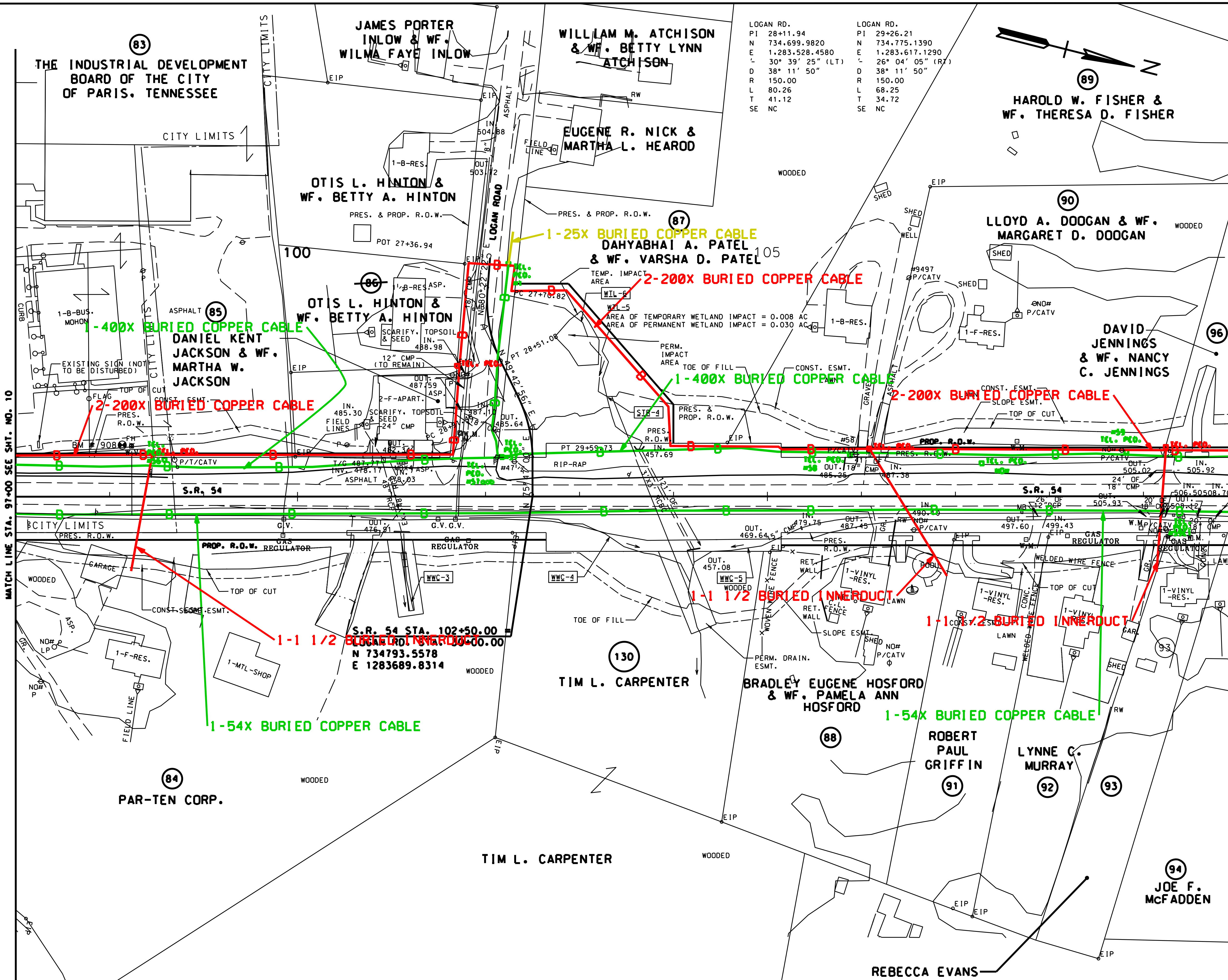
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO. ____

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	1-1

REV 06-22-12: ADDED NOTE TO AVOID SIGN ON TRACT 83 & ADJUSTED CONST. ESMT.; UPDATED TOPO TRACT 84 & ADDED DRIVE; ADDED PROP. CROSS DRAINS

REV 08-10-12: REVISED DRAIN. ESMT. TRACTS 84 & 130; REMOVED DRAIN. ESMT. TRACT 85

REV 11-05-12: CHANGED OWNER NAME TRACTS 84 & 130



AT&T TENNESSEE SE

COLOR SCHEME
Yellow : Remain
Red : Install
Green : Abandon/Remove
Blue : Temporary

LEGEND
—B—B— BURIED CABLE
—A—A— AERIAL CABLE
—UG—UG— UNDERGROUND CABLE (IN CONDUIT)
—AW—AW— AERIAL WIRE
—BW—BW— BURIED WIRE
—CONDUIT— CONDUIT
—PIPE— PIPE
○ POLE
□ PEDESTAL

SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

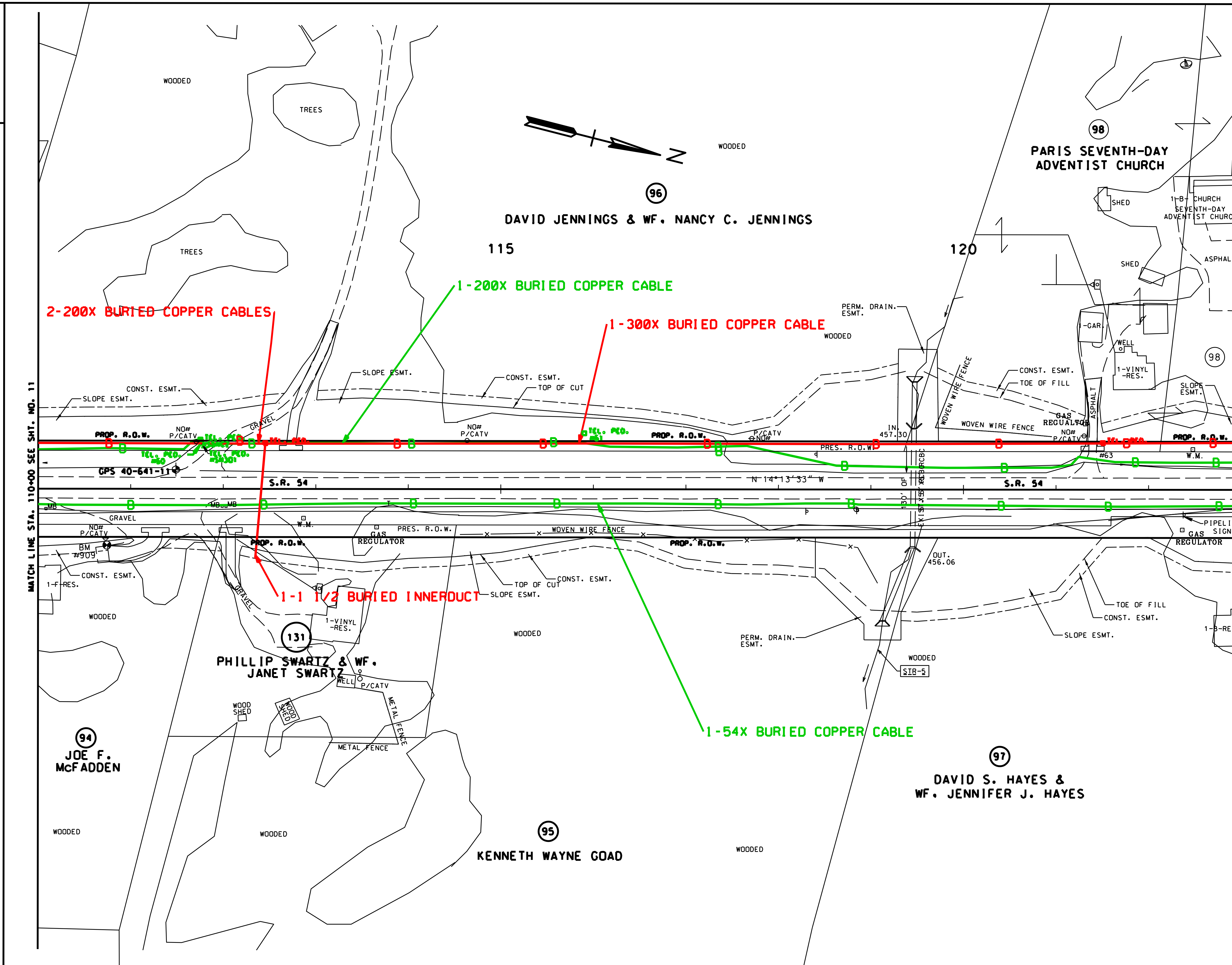
PRESENT LAYOUT

STA. 97+00 TO STA. 110+00

SCALE: 1"=50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

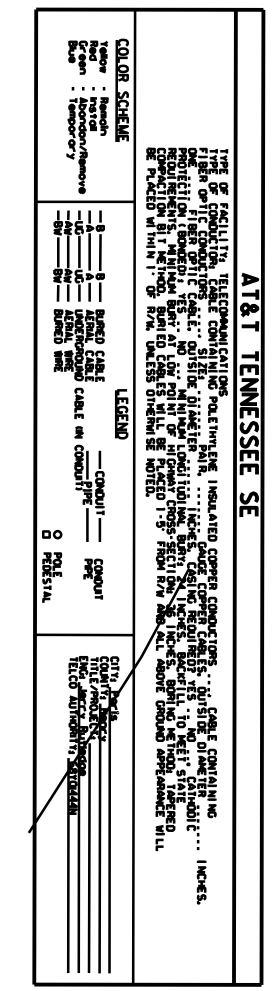
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO. ___



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	12

REV 06-22-12: ADDED PROP. CROSS DRAIN

REV 08-10-12: REVISED DRAIN. ESMT. ON TRACTS 95 & 97



SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 110+00 TO STA. 123+00

SCALE: 1"=50'

$$$$SYTIME$$$$$$
$$$DGNSPEC$$$

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

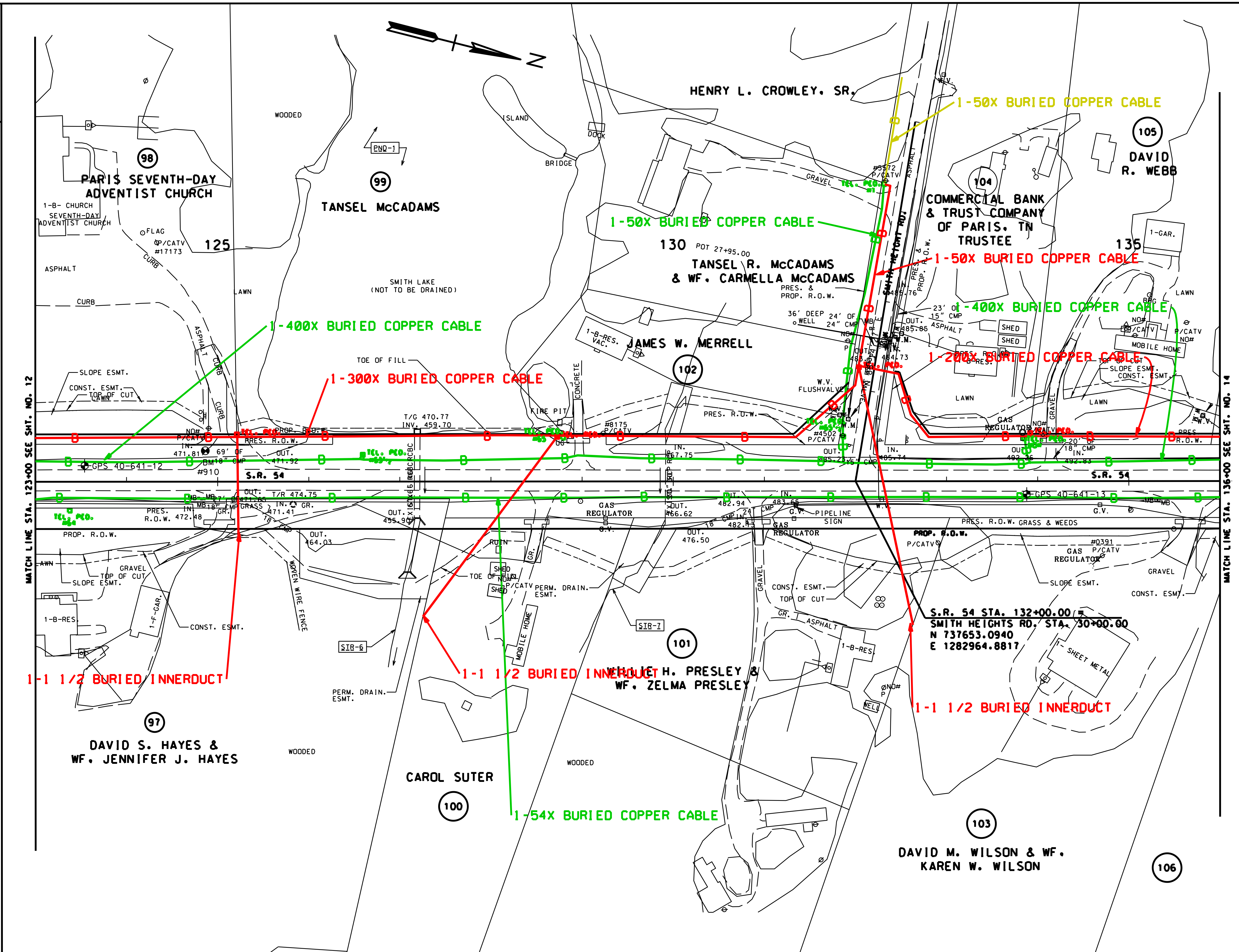
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	13

REV 06-22-12: REVISED DRIVE TRACT 98: ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV 07-10-12: REVISED SLOPE ESMT. TRACTS 99 & 102 FOR RETAINING WALL

REV 08-10-12: REVISED DRAIN. ESMTS. TRACTS 101 & 102

REV 11-05-12: ADDED SURVEY TO TRACTS 102, 104 & 105: CHANGED OWNER NAME TRACT 104



AT&T TENNESSEE SE

COLOR SCHEME
Yellow : Remain
Red : Install
Green : Abandon/Remove
Blue : Temporary

LEGEND
—B—B— BURIED CABLE
—A—A— AERIAL CABLE
—UG—UG— UNDERGROUND CABLE (IN CONDUIT)
—AW—AW— AERIAL WIRE
—BW—BW— BURIED WIRE
—CONDUIT— CONDUIT
—PIPE— PIPE
○ POLE
□ PEDESTAL

SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

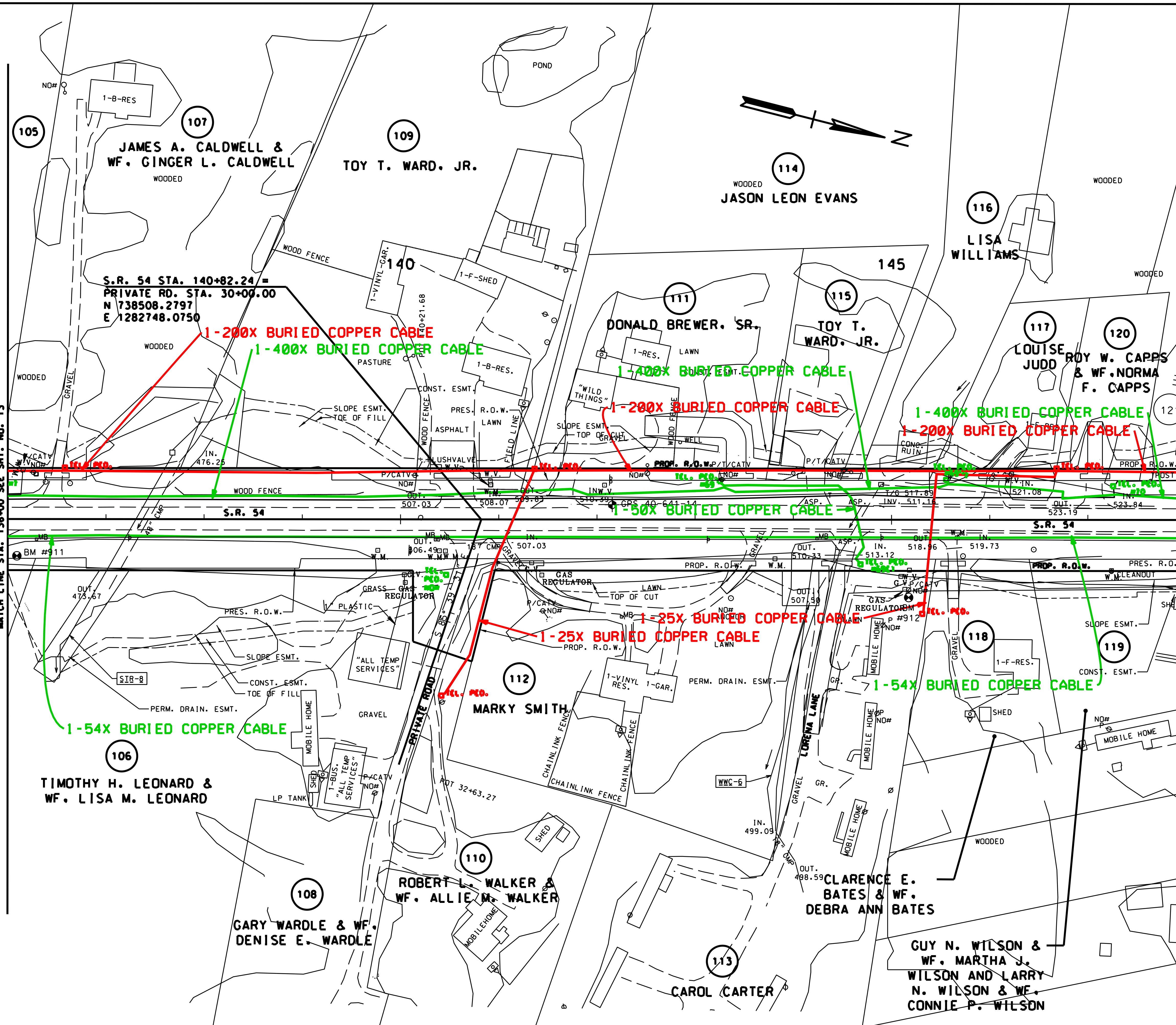
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 123+00 TO STA. 136+00

SCALE: 1"=50'

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



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	14

REV. 06-22-12: REVISED TOPO TRACTS 115 & 119; ADDED DRIVE TRACT 115 & ADJUSTED CONST. ESMT.; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV. 08-10-12: REVISED TOPO & CONST. ESMT. TRACT 119; REVISED DRAIN. ESMT. TRACT 109

REV. 11-05-12: ADDED SURVEY TO TRACTS 105 & 107

AT&T TENNESSEE SE

COLOR SCHEME
Yellow : Remain
Red : Install
Green : Abandon/Remove
Blue : Temporary

LEGEND
—B— BURIED CABLE
—A— AERIAL CABLE
—UG— UNDERGROUND CABLE (IN CONDUIT)
—AW— AERIAL WIRE
—BW— BURIED WIRE
—CONDUIT— CONDUIT
—PIPE— PIPE
O POLE
□ PEDESTAL

SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 136+00 TO STA. 148+00

SCALE: 1"=50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$

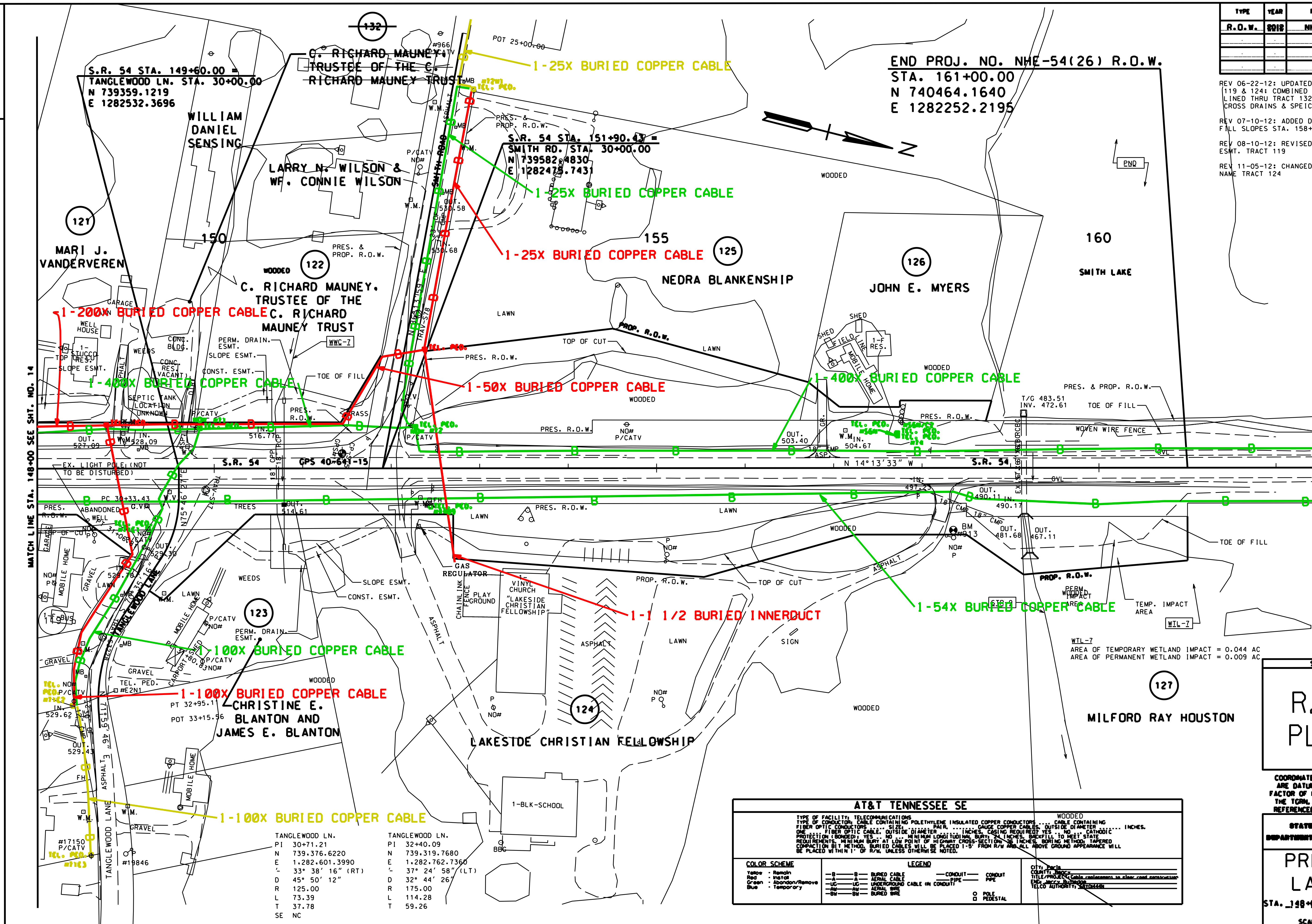
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	15

REV 06-22-12: UPDATED TOPO TRACTS 119 & 124; COMBINED TRACTS 122 & 132. LINED THRU TRACT 132: ADDED PROP. CROSS DRAINS & SPEICAL DITCHES

REV 07-10-12: ADDED DITCH LT & REVISED FILL SLOPES STA. 158+50 TO 160+00

REV 08-10-12: REVISED TOPO & CONST. ESMT. TRACT 119

REV 11-05-12: CHANGED PROPERTY OWNER NAME TRACT 124



AT&T TENNESSEE SE

TYPE OF FACILITY: TELECOMMUNICATIONS
TYPE OF CONDUCTOR: CABLE CONTAINING POLETHYLENE INSULATED COPPER CONDUCTORS .... CABLE CONTAINING FIBER OPTIC CONDUCTORS ..... SIZE: .... PAIR, ... GAUGE COPPER CABLES. OUTSIDE DIAMETER .... INCHES. ONE .... FIBER OPTIC CABLE. OUTSIDE DIAMETER .... INCHES. CASING REQUIRED? YES .. NO ... CATHODIC PROTECTION (BONDED): YES .. NO ... MINIMUM LONGITUDINAL BURY: 24 INCHES. BACKFILL TO MEET STATE REQUIREMENTS. MINIMUM BURY AT LOW POINT OF HIGHWAY CROSS-SECTION: 36 INCHES. BORING METHOD: TAPERED COMPACTION BIT METHOD. BURIED CABLES WILL BE PLACED 1-5' FROM R/W AND ALL ABOVE GROUND APPEARANCE WILL BE PLACED WITHIN 1' OF R/W, UNLESS OTHERWISE NOTED.

COLOR SCHEME
Yellow - Remain
Red - Install
Green - Abandon/Remove
Blue - Temporary

LEGEND
—B——B— BURIED CABLE
—A——A— AERIAL CABLE
—UG——UG— UNDERGROUND CABLE (IN CONDUIT)
—AW——AW— AERIAL WIRE
—BW——BW— BURIED WIRE
—CONDUIT— CONDUIT
—PIPE— PIPE
○ POLE
□ PEDESTAL

CITY: Paris
COUNTY: Henry
TITLE/PROJECT: Cable replacement to clear road construction
ENG: Jerry Rutledge
TELCO AUTHORITY: 6RY0144N

SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 148+00 TO END PROJECT

SCALE: 1"=50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	4

REV. 06-22-12: REVISED PROP. R.O.W. & ESMTS. TRACTS 1, 2, 3 & 129

REV. 08-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON THE WEST SIDE OF TRACTS 1 & 3

REV. 08-30-12: ADDED A PI & DELTA WITH NO CURVE TO RISON STREET W. TO CLARIFY ALIGNMENT & REMOVED EXTRA CURVE AT BEGINNING OF ALIGNMENT; CORRECTED NAME OF RAILROAD

PRELIMINARY RELOCATION PLAN
FOR:
CHARTER COMMUNICATIONS
2177 N. ROYAL STREET
JACKSON, TN 38305
BY:
POWER & COMMUNICATION SERVICES
P.O. BOX 12376
JACKSON, TN 38308-0127

NOTE: POLES ARE OWNED BY PARIS UTILITY BOARD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

BEGIN PROJECT TO STA.19+00

SCALE: 1"=_50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	5

REV. 06-22-12: ADDED TRACT 134 & REVISED PERM. DRAIN. ESMT. TRACT 10; LABELED EXIST. RAILROAD R.O.W.; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

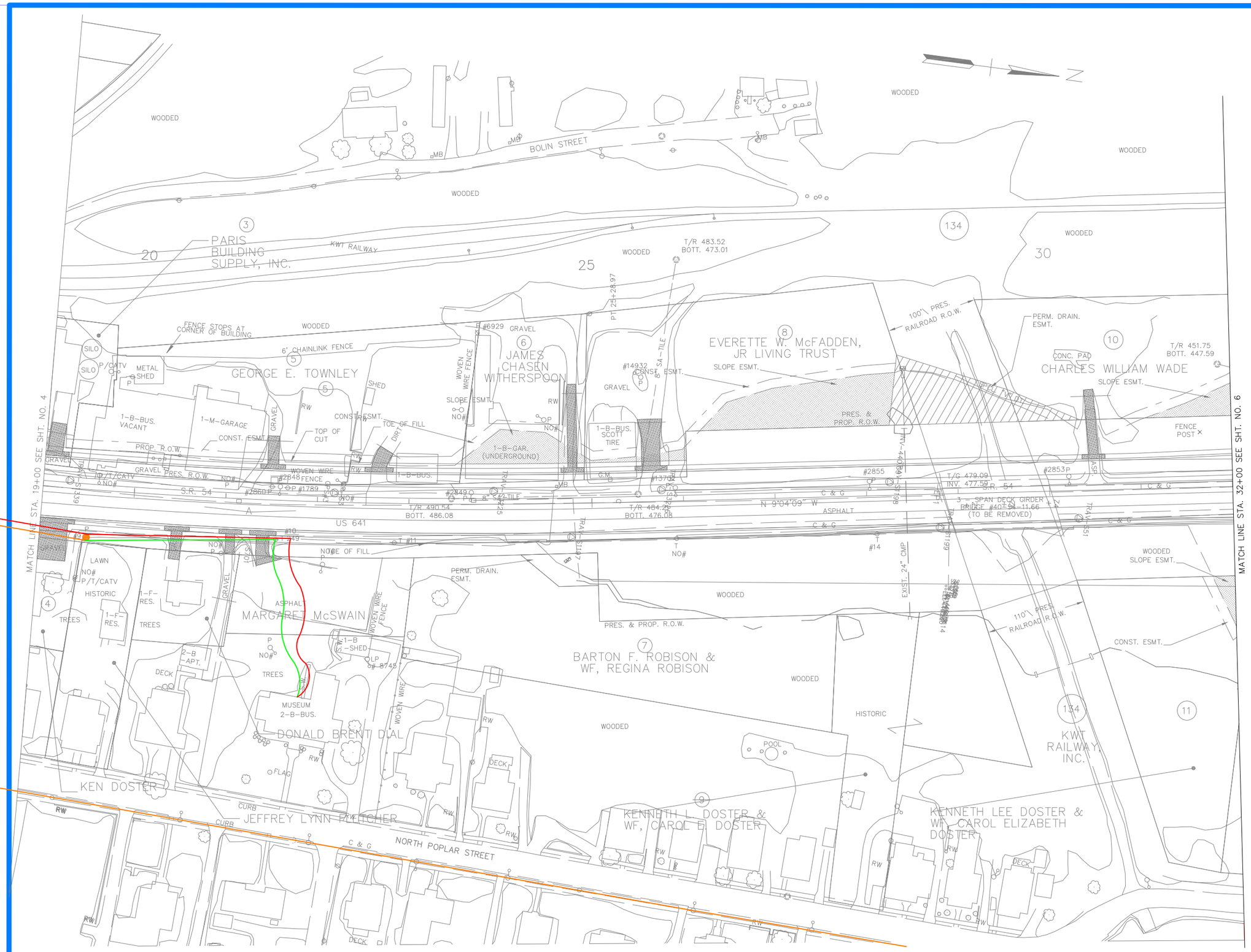
REV. 08-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON WEST SIDE OF TRACTS 3, 5, 6, 8 & 10; CLARIFIED PROPERTY LINE BETWEEN TRACTS 3 & 5

REV. 08-30-12: CORRECTED NAME OF RAILROAD; DIMENSIONED PRES. RAILROAD R.O.W.; REVISED PRES. RAILROAD R.O.W. TO CROSS ROADWAY; ADDED PROP. R.O.W. TO ROADWAY CROSSING RAILROAD

REV. 11-05-12: ADDED SURVEY OF FENCE TO TRACT 5

PRELIMINARY RELOCATION PLAN
FOR:
CHARTER COMMUNICATIONS
2177 N. ROYAL STREET
JACKSON, TN 38305
BY:
POWER & COMMUNICATION SERVICES
P.O. BOX 12376
JACKSON, TN 38308-0127

NOTE: POLES ARE OWNED BY PARIS UTILITY BOARD



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.__19+00 TO STA.__32+00

SCALE: 1"=_50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	6

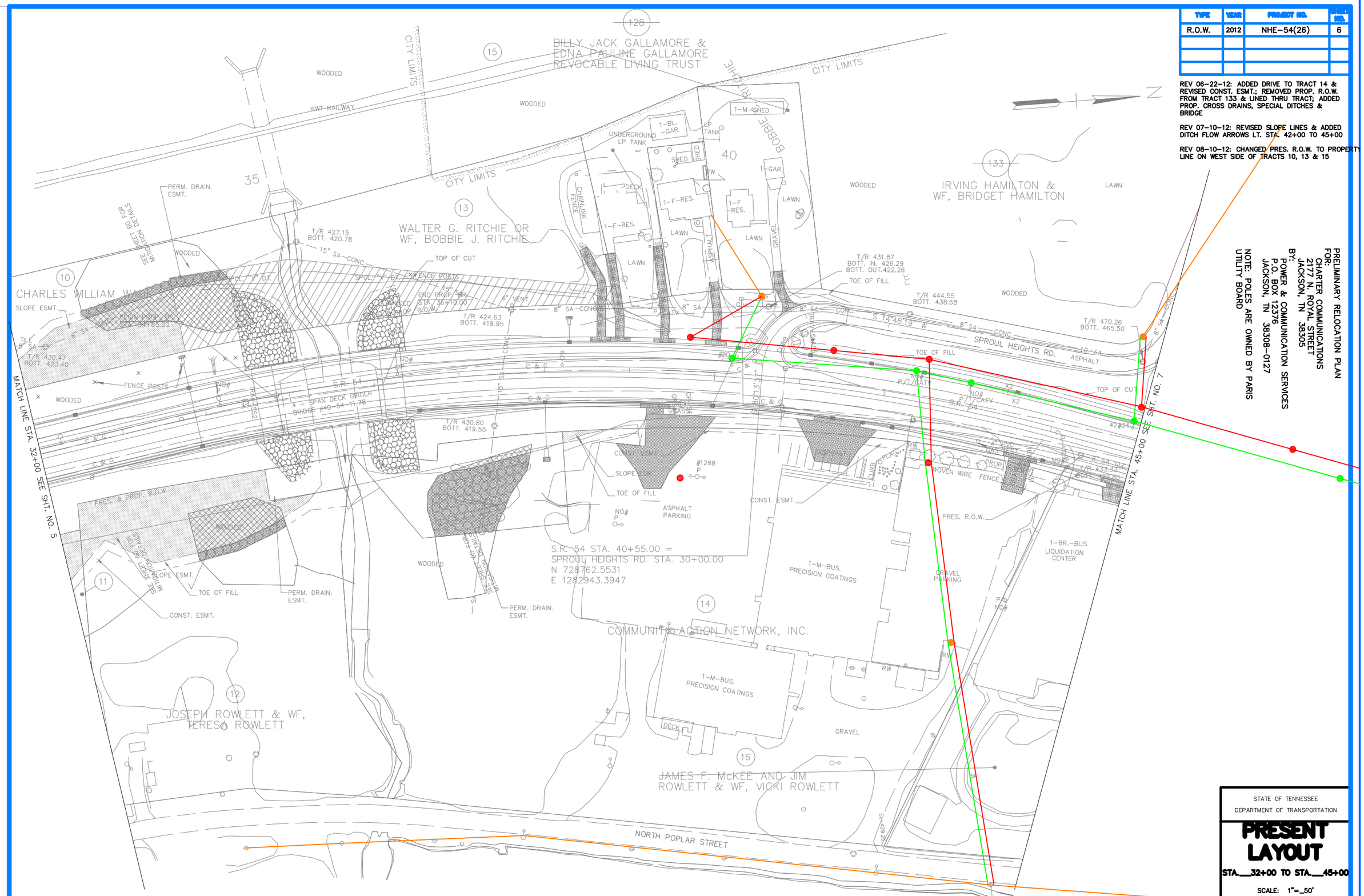
REV 06-22-12: ADDED DRIVE TO TRACT 14 & REVISED CONST. ESMT.; REMOVED PROP. R.O.W. FROM TRACT 133 & LINED THRU TRACT; ADDED PROP. CROSS DRAINS, SPECIAL DITCHES & BRIDGE

REV 07-10-12: REVISED SLOPE LINES & ADDED DITCH FLOW ARROWS LT. STA. 42+00 TO 45+00

REV 08-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON WEST SIDE OF TRACTS 10, 13 & 15

PRELIMINARY RELOCATION PLAN
FOR:
CHARTER COMMUNICATIONS
2177 N. ROYAL STREET
JACKSON, TN 38305
BY:
POWER & COMMUNICATION SERVICES
P.O. BOX 12376
JACKSON, TN 38308-0127

NOTE: POLES ARE OWNED BY PARIS UTILITY BOARD



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.__32+00 TO STA.__45+00

SCALE: 1"=_50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	7

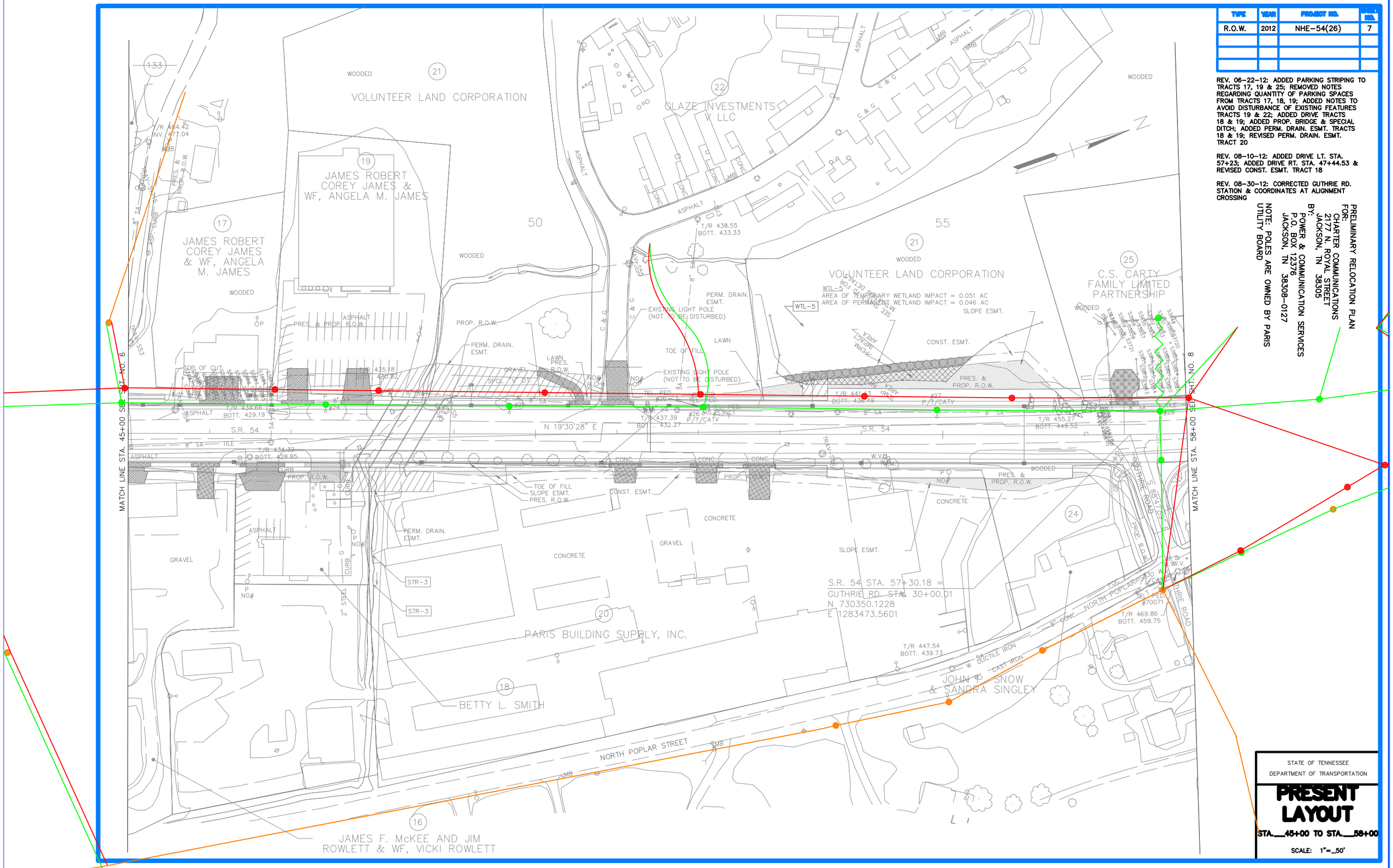
REV. 06-22-12: ADDED PARKING STRIPING TO TRACTS 17, 19 & 25; REMOVED NOTES REGARDING QUANTITY OF PARKING SPACES FROM TRACTS 17, 18, 19; ADDED NOTES TO AVOID DISTURBANCE OF EXISTING FEATURES TRACTS 19 & 22; ADDED DRIVE TRACTS 18 & 19; ADDED PROP. BRIDGE & SPECIAL DITCH; ADDED PERM. DRAIN. ESMT. TRACTS 18 & 19; REVISED PERM. DRAIN. ESMT. TRACT 20

REV. 08-10-12: ADDED DRIVE LT. STA. 57+23; ADDED DRIVE RT. STA. 47+44.53 & REVISED CONST. ESMT. TRACT 18

REV. 08-30-12: CORRECTED GUTHRIE RD. STATION & COORDINATES AT ALIGNMENT CROSSING

PRELIMINARY RELOCATION PLAN
FOR:
CHARTER COMMUNICATIONS
2177 N. ROYAL STREET
JACKSON, TN 38305
BY:
POWER & COMMUNICATION SERVICES
P.O. BOX 12376
JACKSON, TN 38308-0127

NOTE: POLES ARE OWNED BY PARIS UTILITY BOARD



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.__45+00 TO STA.__58+00

SCALE: 1"=_50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	8

REV. 06-22-12: ADDED DRIVE TO TRACT 28; UPDATED TOPO TRACT 25; COMBINED TRACTS 27 & 29, LINED THRU TRACT 29; ADDED PROP. CROSS DRAIN

REV. 08-30-12: CORRECTED COOK ST STATION & COORDINATES AT ALIGNMENT CROSSING

PRELIMINARY RELOCATION PLAN
FOR:
CHARTER COMMUNICATIONS
2177 N. ROYAL STREET
JACKSON, TN 38305
BY:
POWER & COMMUNICATION SERVICES
P.O. BOX 12376
JACKSON, TN 38308-0127

NOTE: POLES ARE OWNED BY PARIS UTILITY BOARD

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.__58+00 TO STA.__71+00

SCALE: 1"=_50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	9

REV 06-22-12: ADDED TRACT 45 INFO; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

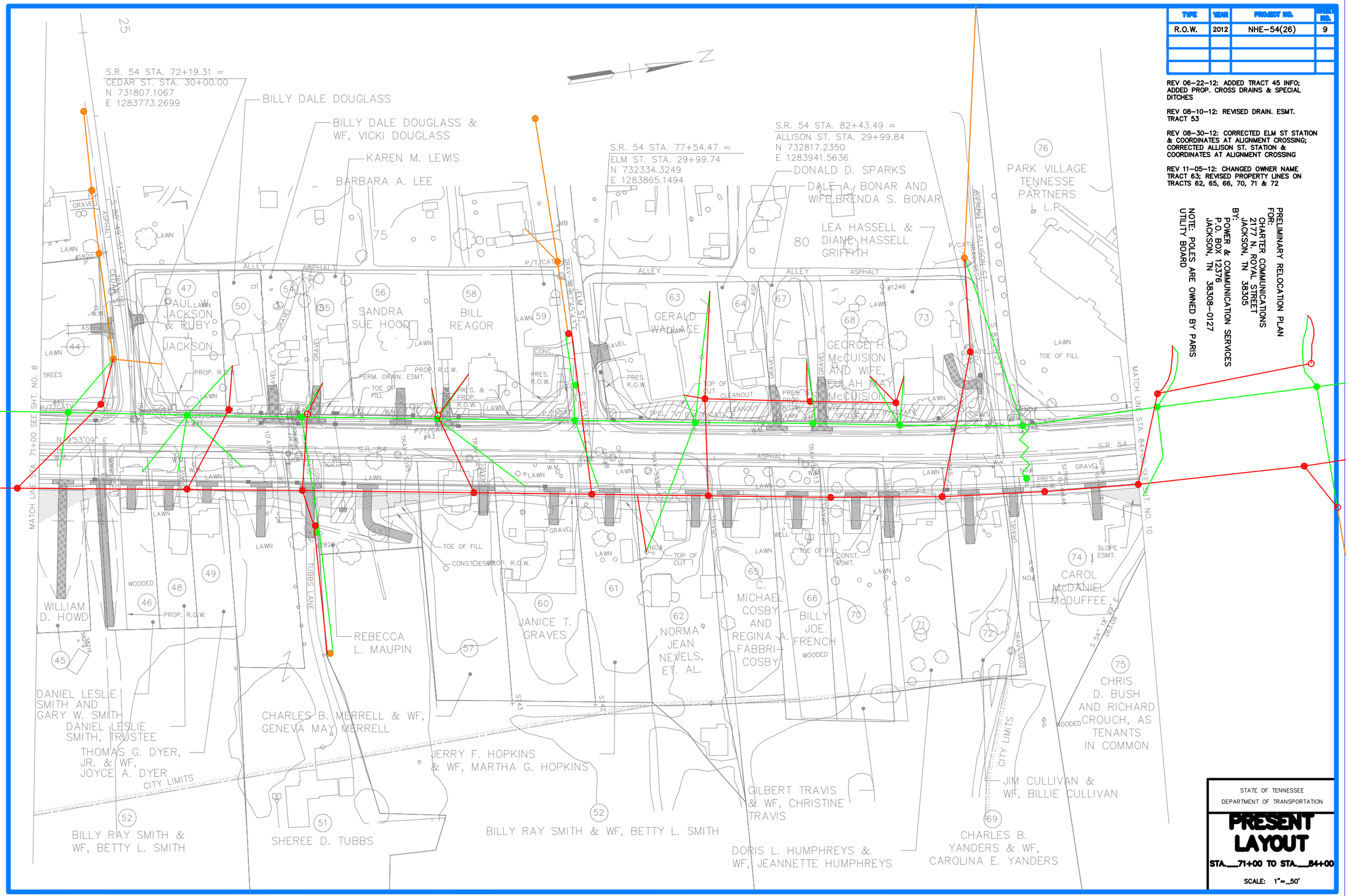
REV 08-10-12: REVISED DRAIN. ESMT. TRACT 53

REV 08-30-12: CORRECTED ELM ST STATION & COORDINATES AT ALIGNMENT CROSSING; CORRECTED ALLISON ST. STATION & COORDINATES AT ALIGNMENT CROSSING

REV 11-05-12: CHANGED OWNER NAME TRACT 63; REVISED PROPERTY LINES ON TRACTS 62, 65, 66, 70, 71 & 72

PRELIMINARY RELOCATION PLAN
FOR:
CHARTER COMMUNICATIONS
2177 N. ROYAL STREET
JACKSON, TN 38305
BY:
POWER & COMMUNICATION SERVICES
P.O. BOX 12376
JACKSON, TN 38308-0127

NOTE: POLES ARE OWNED BY PARIS UTILITY BOARD



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.__71+00 TO STA.__84+00

SCALE: 1"=_50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	10

REV 06-22-12: REMOVED RESIDENTIAL STRUCTURES FROM TRACT 83; ADDED DRIVE TO TRACT 78; REVISED DRAINAGE ESMT. TRACT 76; REMOVED DRAIN. ESMTS. FROM TRACT 83 NEAR STA. 90+50 & 91+50 LT.; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

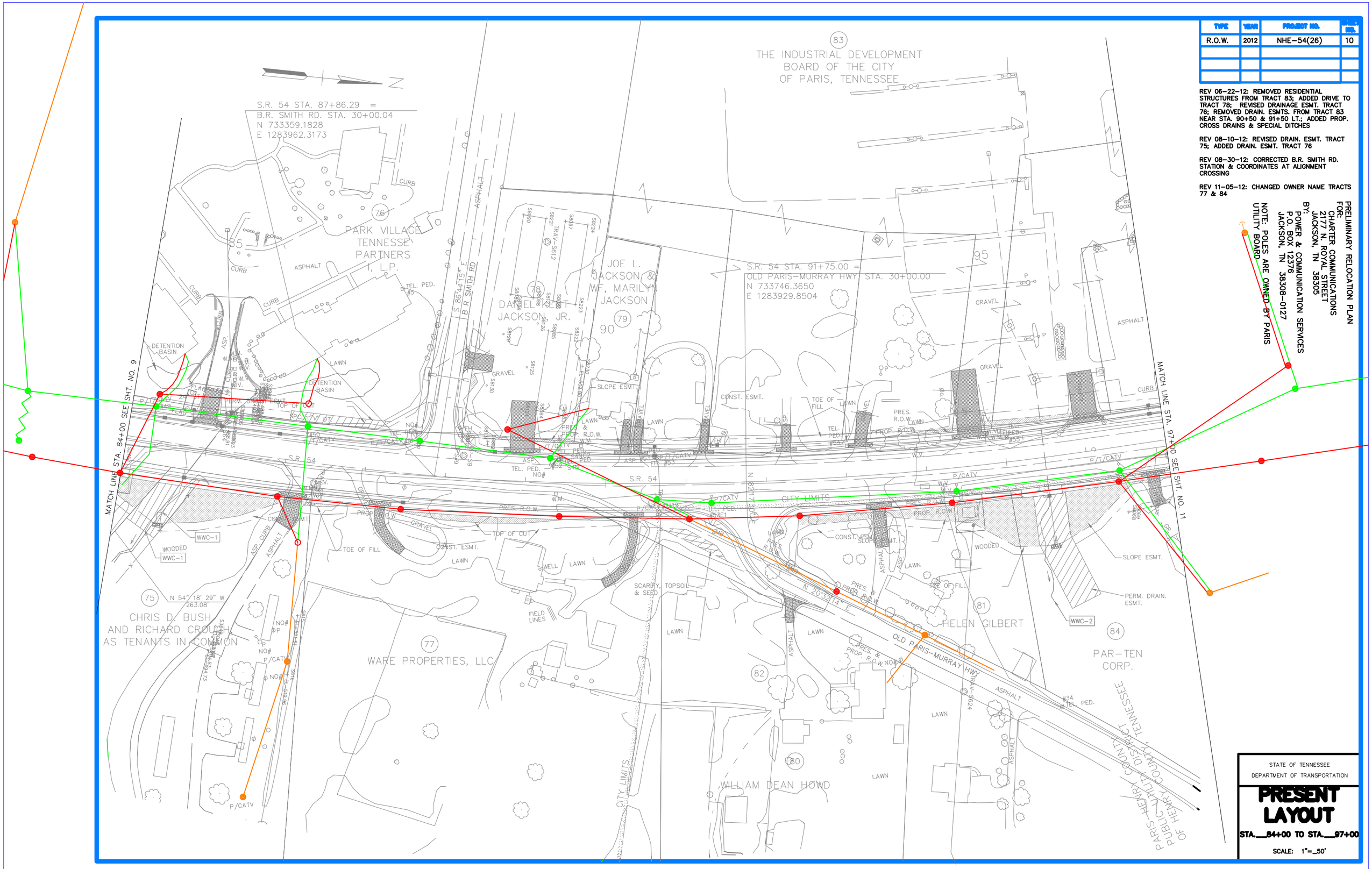
REV 08-10-12: REVISED DRAIN. ESMT. TRACT 75; ADDED DRAIN. ESMT. TRACT 76

REV 08-30-12: CORRECTED B.R. SMITH RD. STATION & COORDINATES AT ALIGNMENT CROSSING

REV 11-05-12: CHANGED OWNER NAME TRACTS 77 & 84

PRELIMINARY RELOCATION PLAN
FOR:
CHARTER COMMUNICATIONS
2177 N. ROYAL STREET
JACKSON, TN 38305
BY:
POWER & COMMUNICATION SERVICES
P.O. BOX 12376
JACKSON, TN 38308-0127

NOTE: POLES ARE OWNED BY PARIS UTILITY BOARD



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.__84+00 TO STA.__97+00

SCALE: 1"=_50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	11

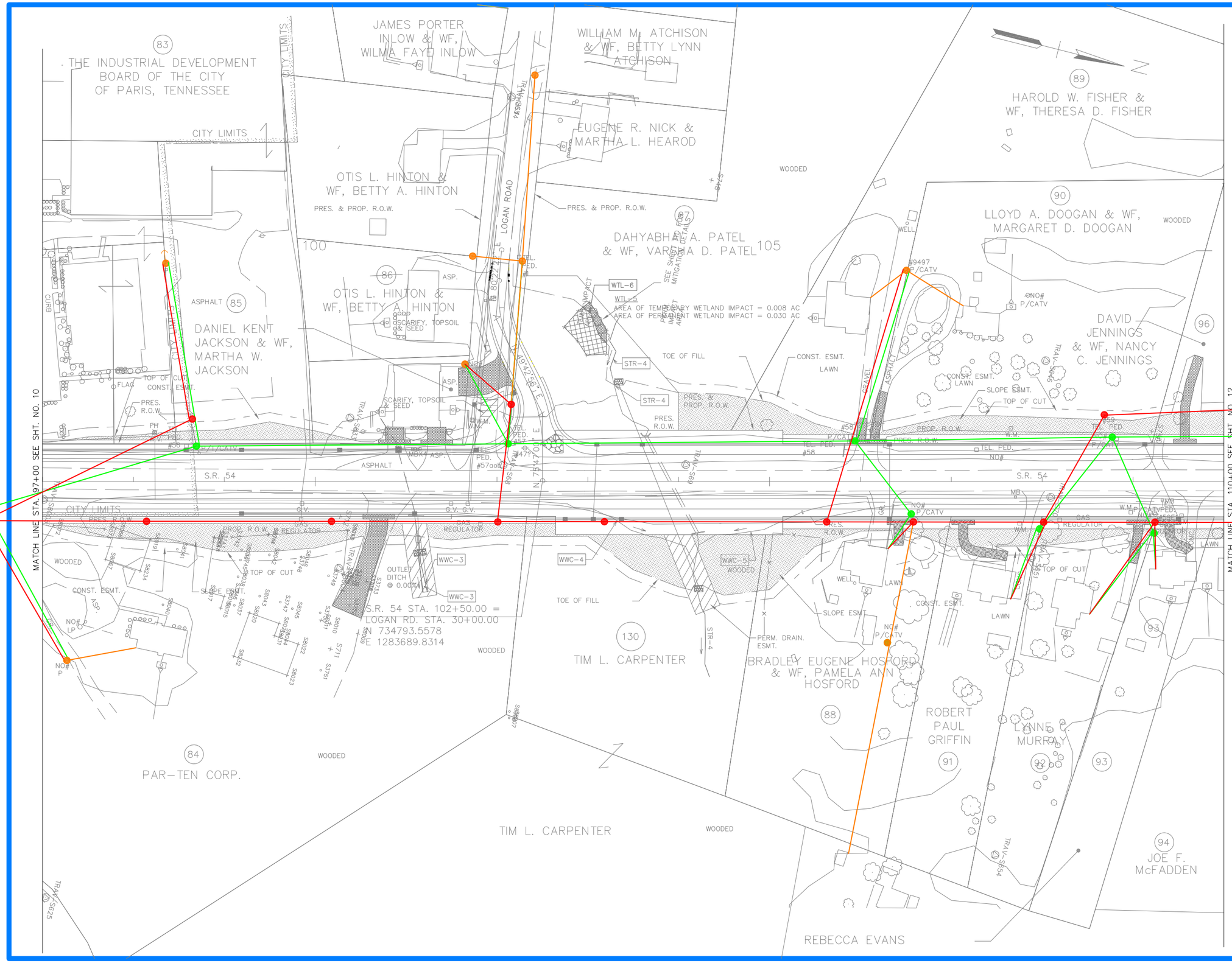
REV 06-22-12: ADDED NOTE TO AVOID SIGN ON TRACT 83 & ADJUSTED CONST. ESMT.; UPDATED TOPO TRACT 84 & ADDED DRIVE; ADDED PROP. CROSS DRAINS

REV 08-10-12: REVISED DRAIN. ESMT. TRACTS 84 & 130; REMOVED DRAIN. ESMT. TRACT 85

REV 11-05-12: CHANGED OWNER NAME TRACTS 84 & 130

PRELIMINARY RELOCATION PLAN
FOR:
CHARTER COMMUNICATIONS
2177 N. ROYAL STREET
JACKSON, TN 38305
BY:
POWER & COMMUNICATION SERVICES
P.O. BOX 12376
JACKSON, TN 38308-0127

NOTE: POLES ARE OWNED BY PARIS UTILITY BOARD



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.__97+00 TO STA.__110+00

SCALE: 1"=_50'

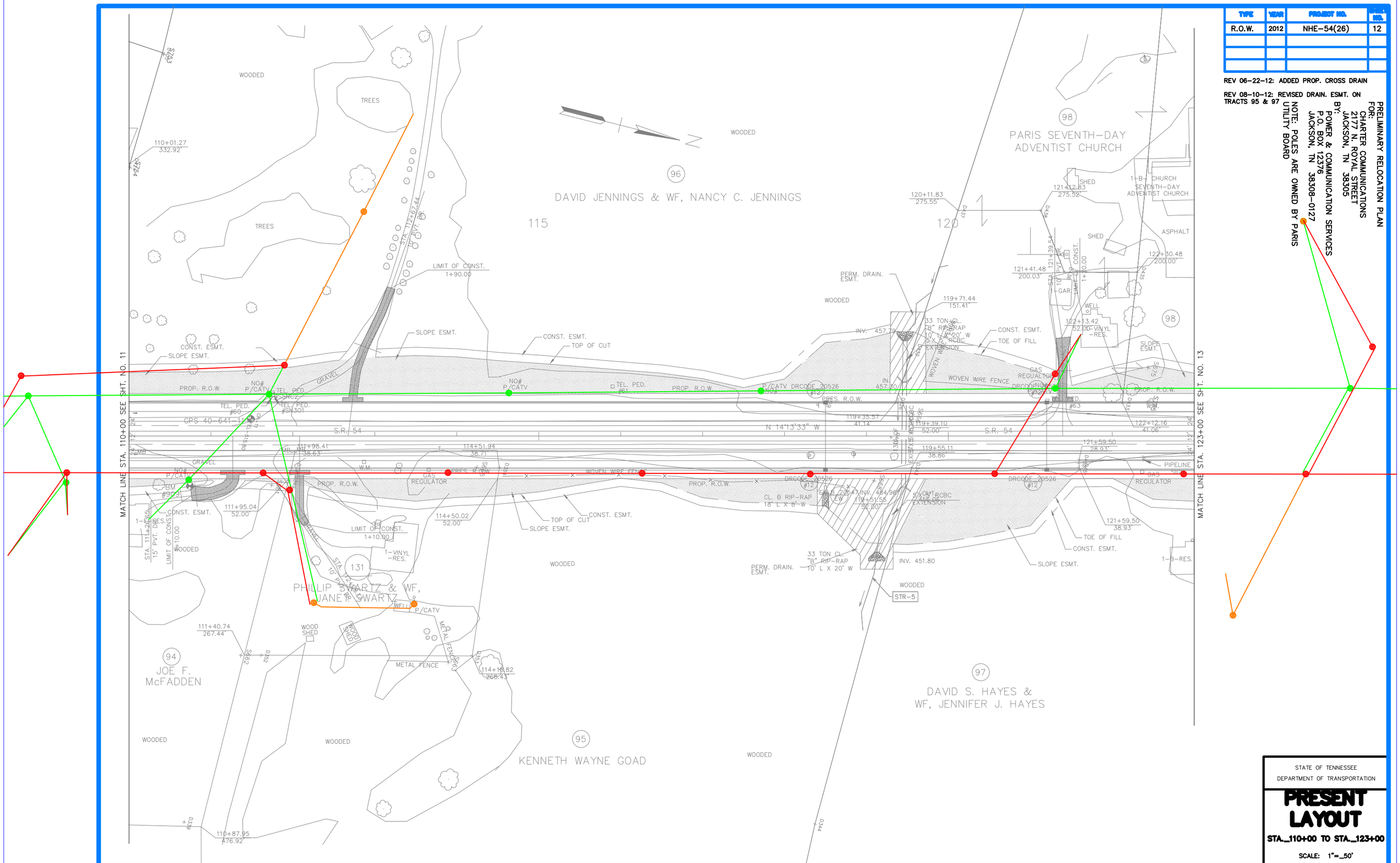
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	12

REV 06-22-12: ADDED PROP. CROSS DRAIN

REV 08-10-12: REVISED DRAIN. ESMT. ON TRACTS 95 & 97

PRELIMINARY RELOCATION PLAN
FOR:
CHARTER COMMUNICATIONS
2177 N. ROYAL STREET
JACKSON, TN 38305
BY:
POWER & COMMUNICATION SERVICES
P.O. BOX 12376
JACKSON, TN 38308-0127

NOTE: POLES ARE OWNED BY PARIS UTILITY BOARD



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA._110+00 TO STA._123+00

SCALE: 1"=_50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	13

REV 06-22-12: REVISED DRIVE TRACT 98; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

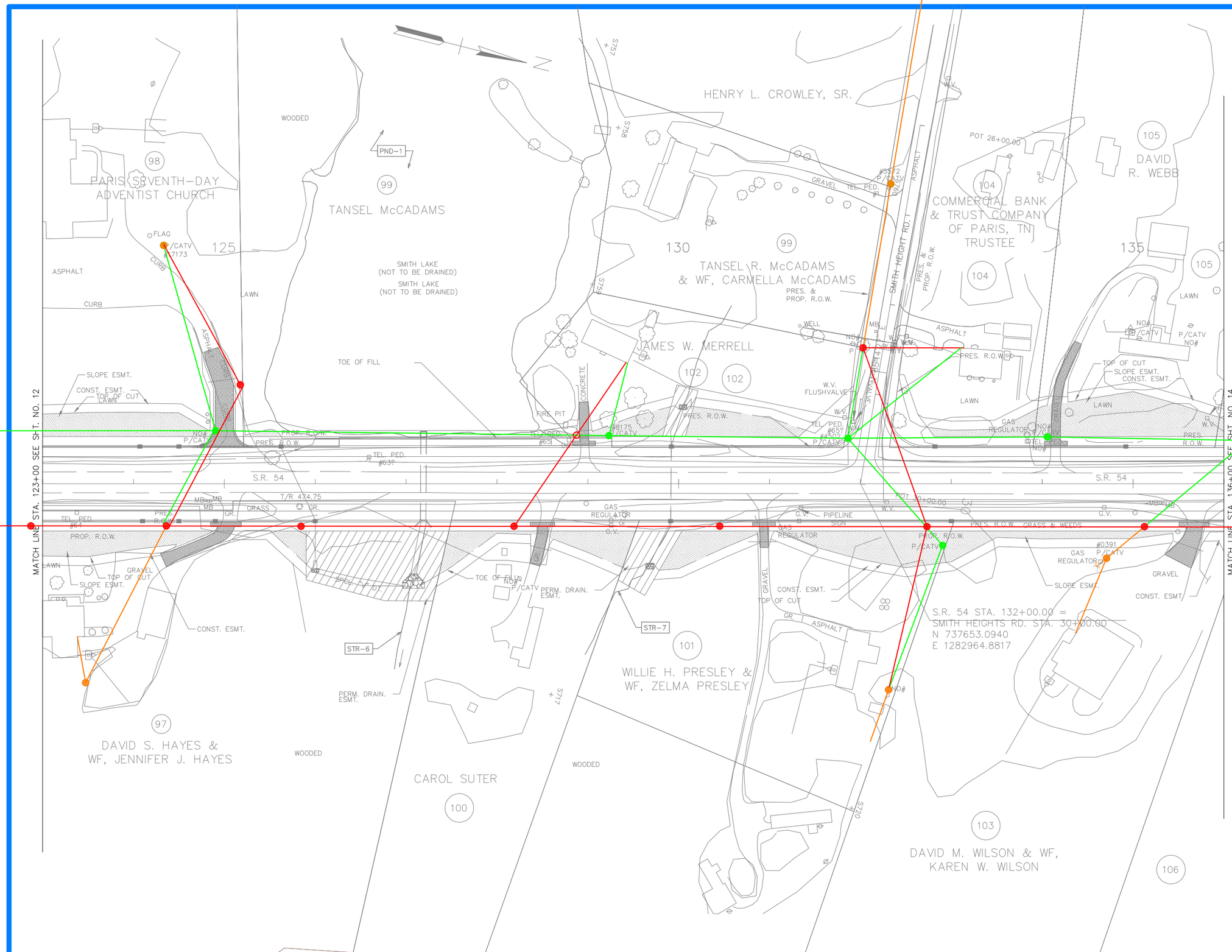
REV 07-10-12: REVISED SLOPE ESMT. TRACTS 99 & 102 FOR RETAINING WALL

REV 08-10-12: REVISED DRAIN. ESMTS. TRACTS 101 & 102

REV 11-05-12: ADDED SURVEY TO TRACTS 102, 104 & 105; CHANGED OWNER NAME TRACT 104

PRELIMINARY RELOCATION PLAN
FOR:
CHARTER COMMUNICATIONS
2177 N. ROYAL STREET
JACKSON, TN 38305
BY:
POWER & COMMUNICATION SERVICES
P.O. BOX 12376
JACKSON, TN 38308-0127

NOTE: POLES ARE OWNED BY PARIS UTILITY BOARD



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA._123+00 TO STA._136+00

SCALE: 1"=_50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	14

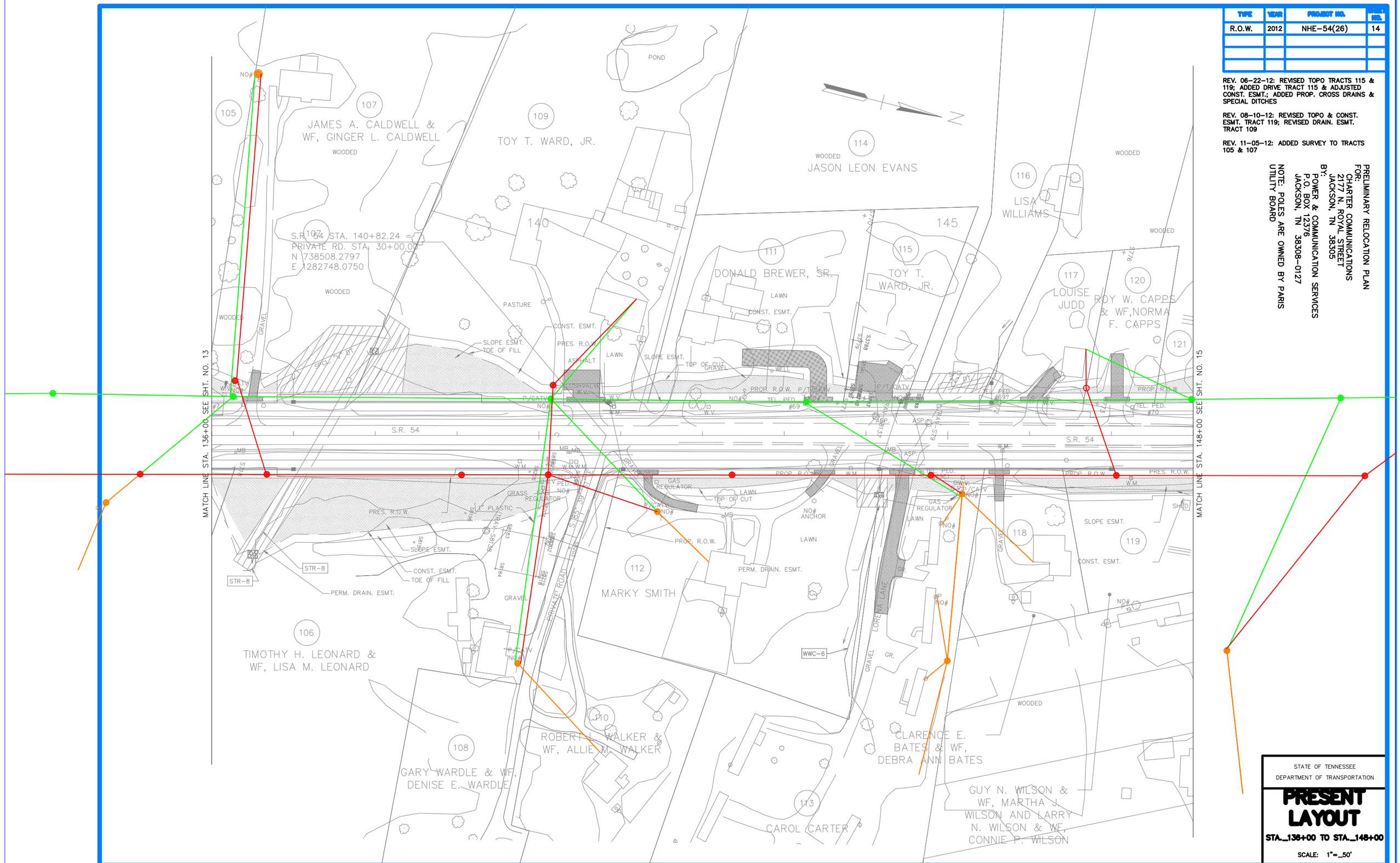
REV. 06-22-12: REVISED TOPO TRACTS 115 & 119; ADDED DRIVE TRACT 115 & ADJUSTED CONST. ESMT.; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV. 08-10-12: REVISED TOPO & CONST. ESMT. TRACT 119; REVISED DRAIN. ESMT. TRACT 109

REV. 11-05-12: ADDED SURVEY TO TRACTS 105 & 107

PRELIMINARY RELOCATION PLAN
FOR:
CHARTER COMMUNICATIONS
2177 N. ROYAL STREET
JACKSON, TN 38305
BY:
POWER & COMMUNICATION SERVICES
P.O. BOX 12376
JACKSON, TN 38308-0127

NOTE: POLES ARE OWNED BY PARIS UTILITY BOARD



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA._136+00 TO STA._148+00

SCALE: 1"=_50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	15

REV 06-22-12: UPDATED TOPO TRACTS 119 & 124; COMBINED TRACTS 122 & 132, LINED THRU TRACT 132; ADDED PROP. CROSS DRAINS & SPEICAL DITCHES

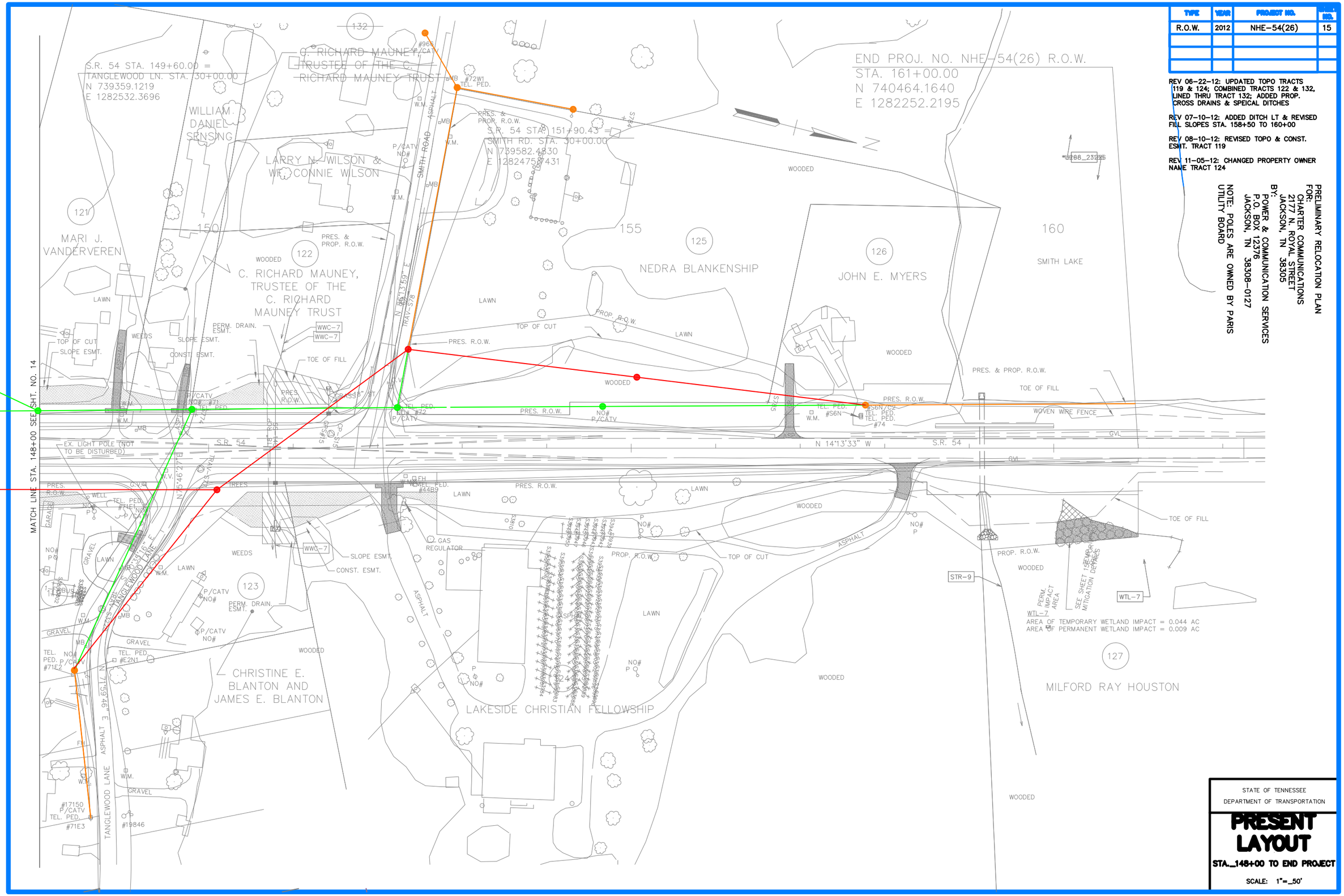
REV 07-10-12: ADDED DITCH LT & REVISED FILL SLOPES STA. 158+50 TO 160+00

REV 08-10-12: REVISED TOPO & CONST. ESMT. TRACT 119

REV 11-05-12: CHANGED PROPERTY OWNER NAME TRACT 124

PRELIMINARY RELOCATION PLAN
FOR:
CHARTER COMMUNICATIONS
2177 N. ROYAL STREET
JACKSON, TN 38305
BY:
POWER & COMMUNICATION SERVICES
P.O. BOX 12376
JACKSON, TN 38308-0127

NOTE: POLES ARE OWNED BY PARIS UTILITY BOARD



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA._148+00 TO END PROJECT

SCALE: 1"=_50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2013	.	U3-2
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.	.	.	.
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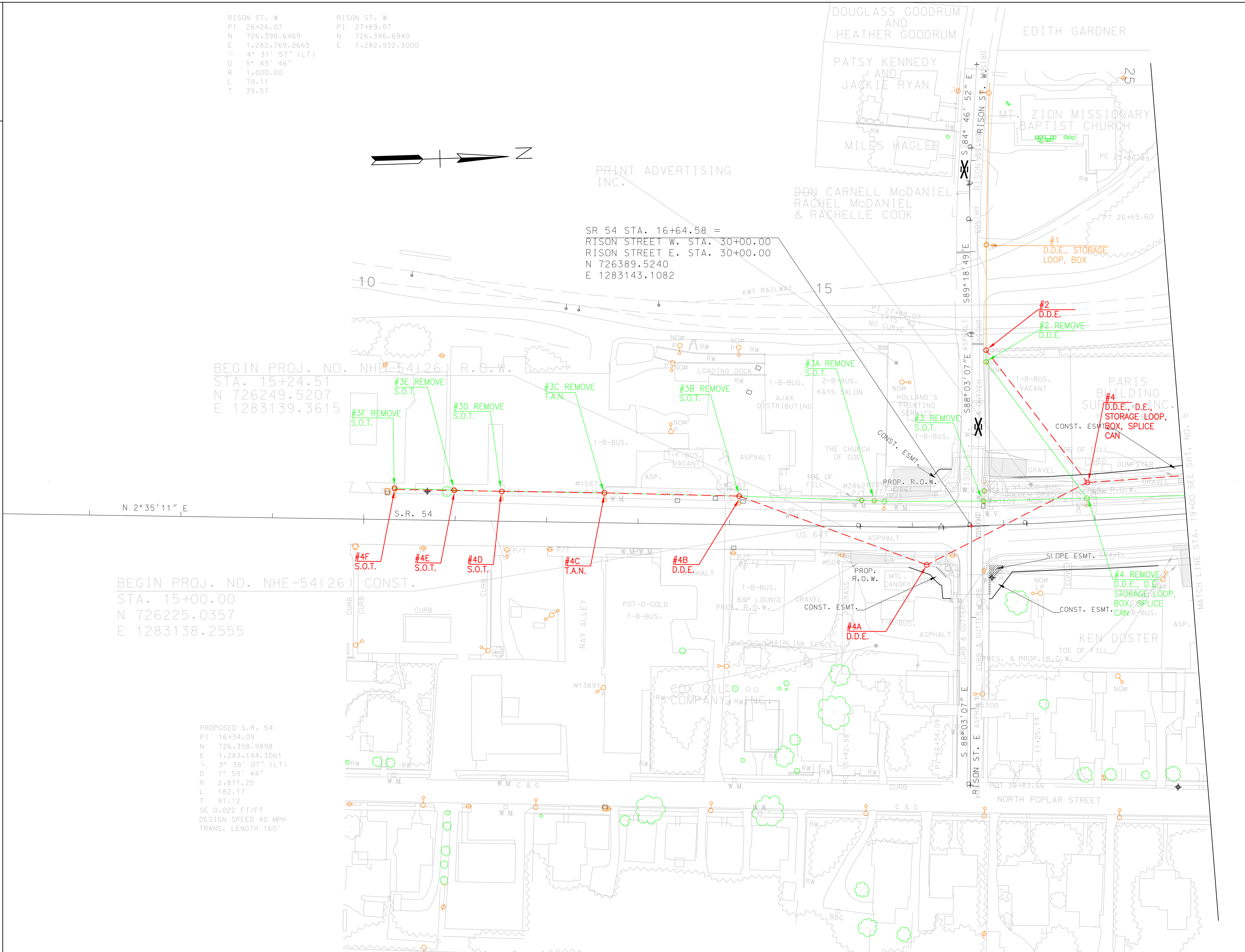
S.R.54 HENRY CO.



MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC
CABLE LAYOUT

BEGIN PROJECT
TO
STA.19+00

SCALE: 1″= 50′

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
·	2013	·	U3-3
·	·	·	·
·	·	·	·
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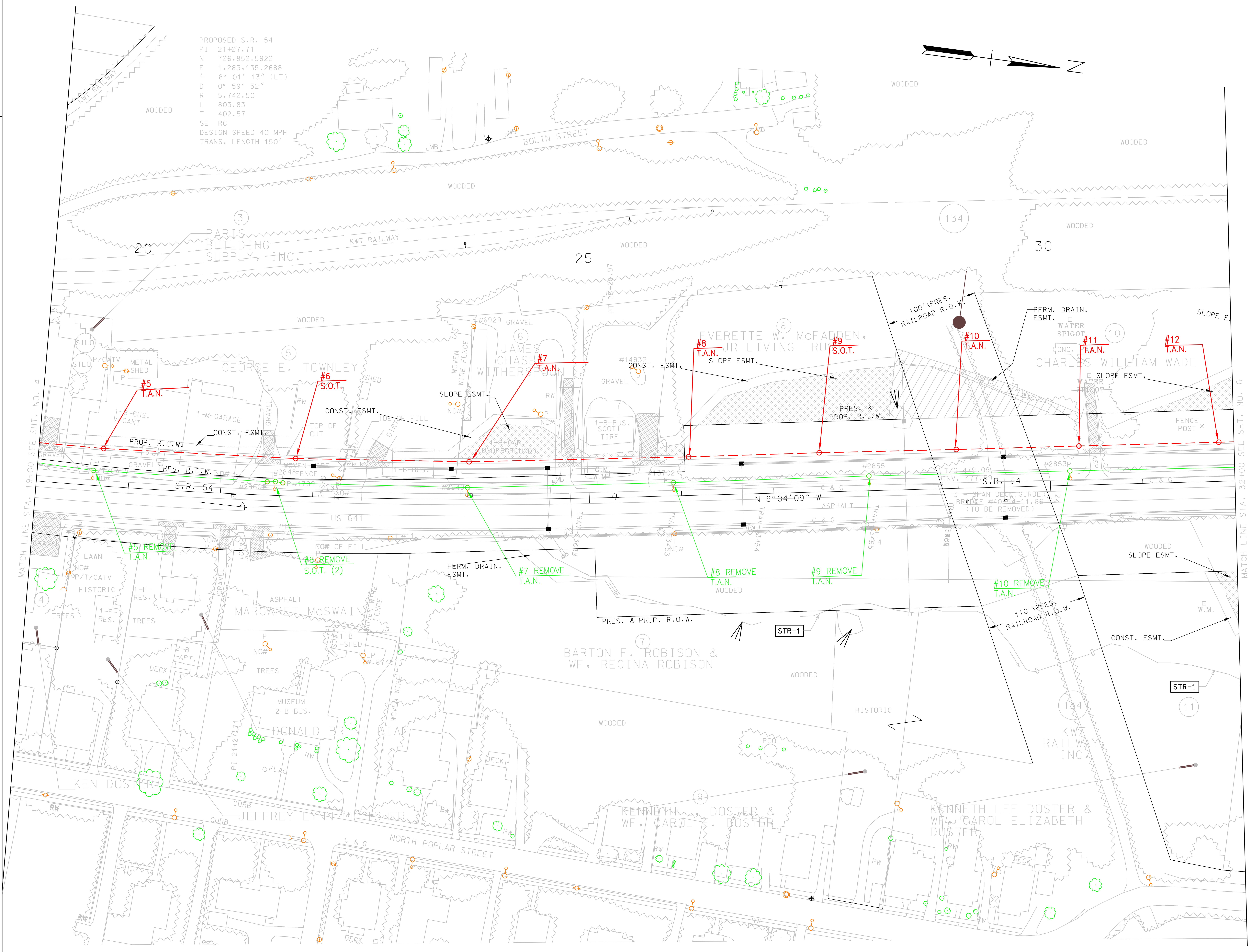
S.R.54 HENRY CO.



$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE LAYOUT

STA. 19+00
TO
STA. 32+00

SCALE: 1″=_50′

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2013	.	U3-4
.	.	.	.
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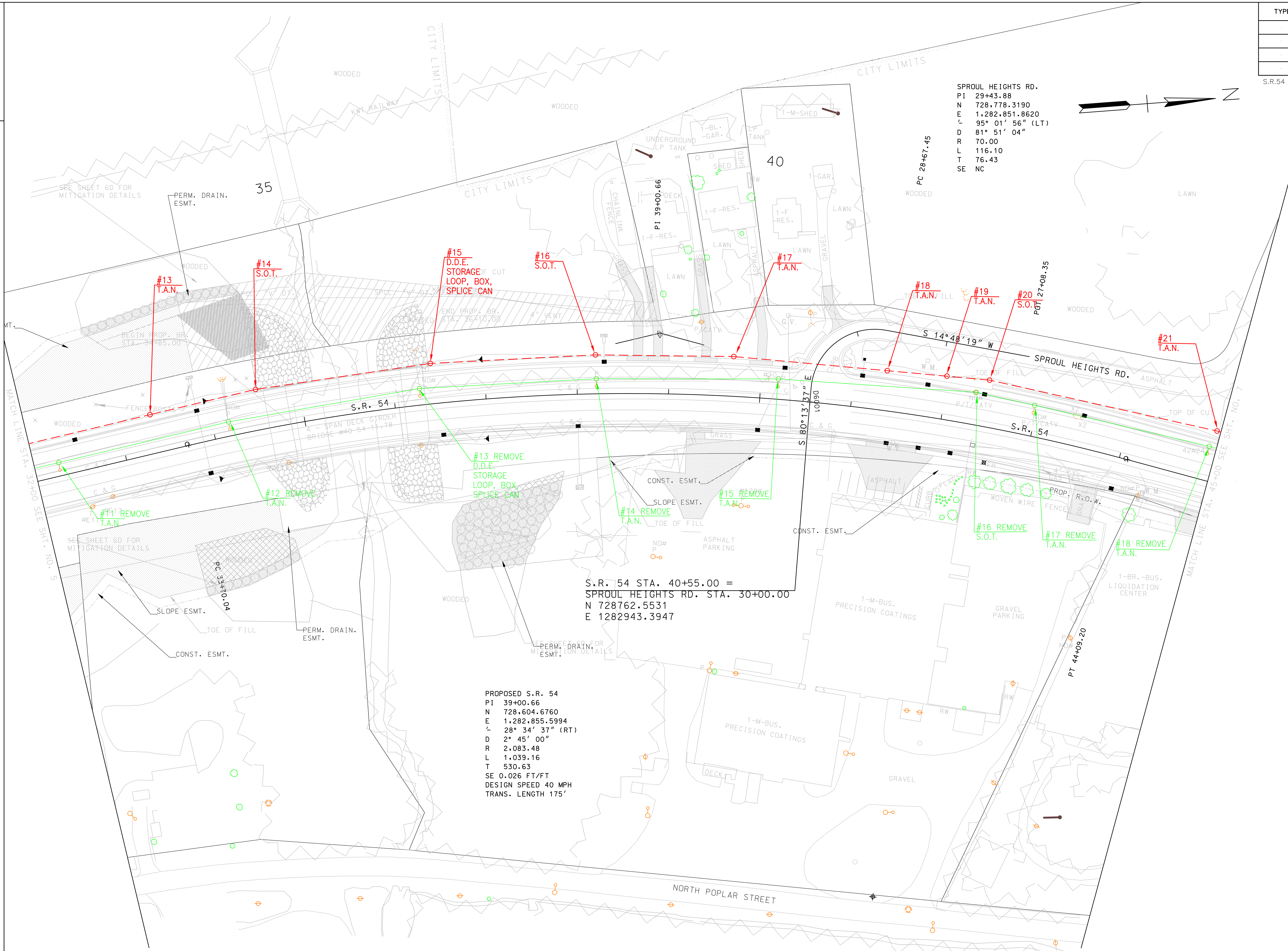
S.R.54 / HENRY CO.



$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC CABLE LAYOUT

STA. 32+00
TO
STA. 45+00

SCALE: 1"= 50'

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2013	.	U3-5
.	.	.	.
.	.	.	.
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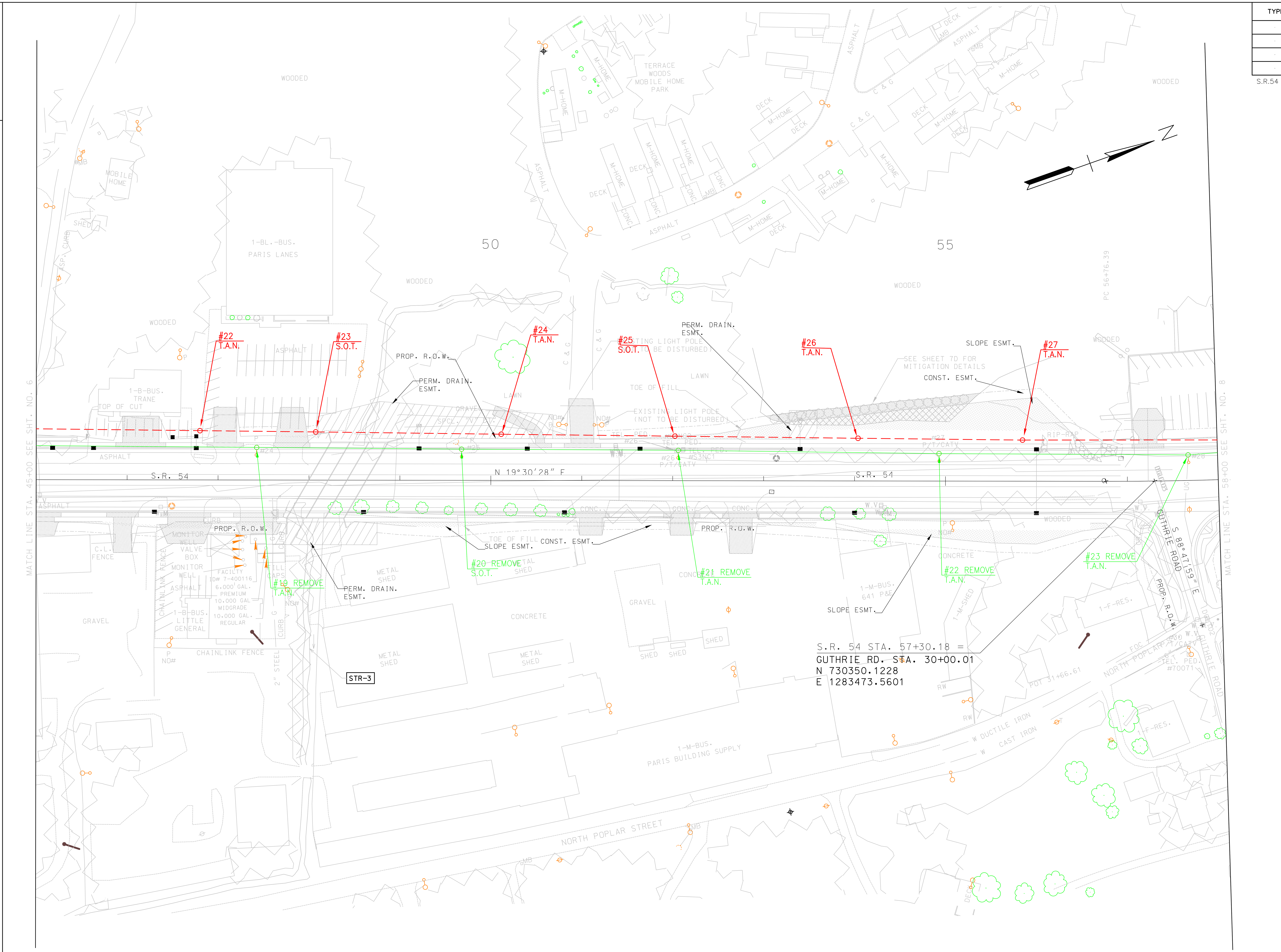
S.R.54 HENRY CO.



MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC
CABLE LAYOUT
STA. 45+00
TO
STA. 58+00

SCALE: 1"= 50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2013	.	U3-6
.	.	.	.
.	.	.	.
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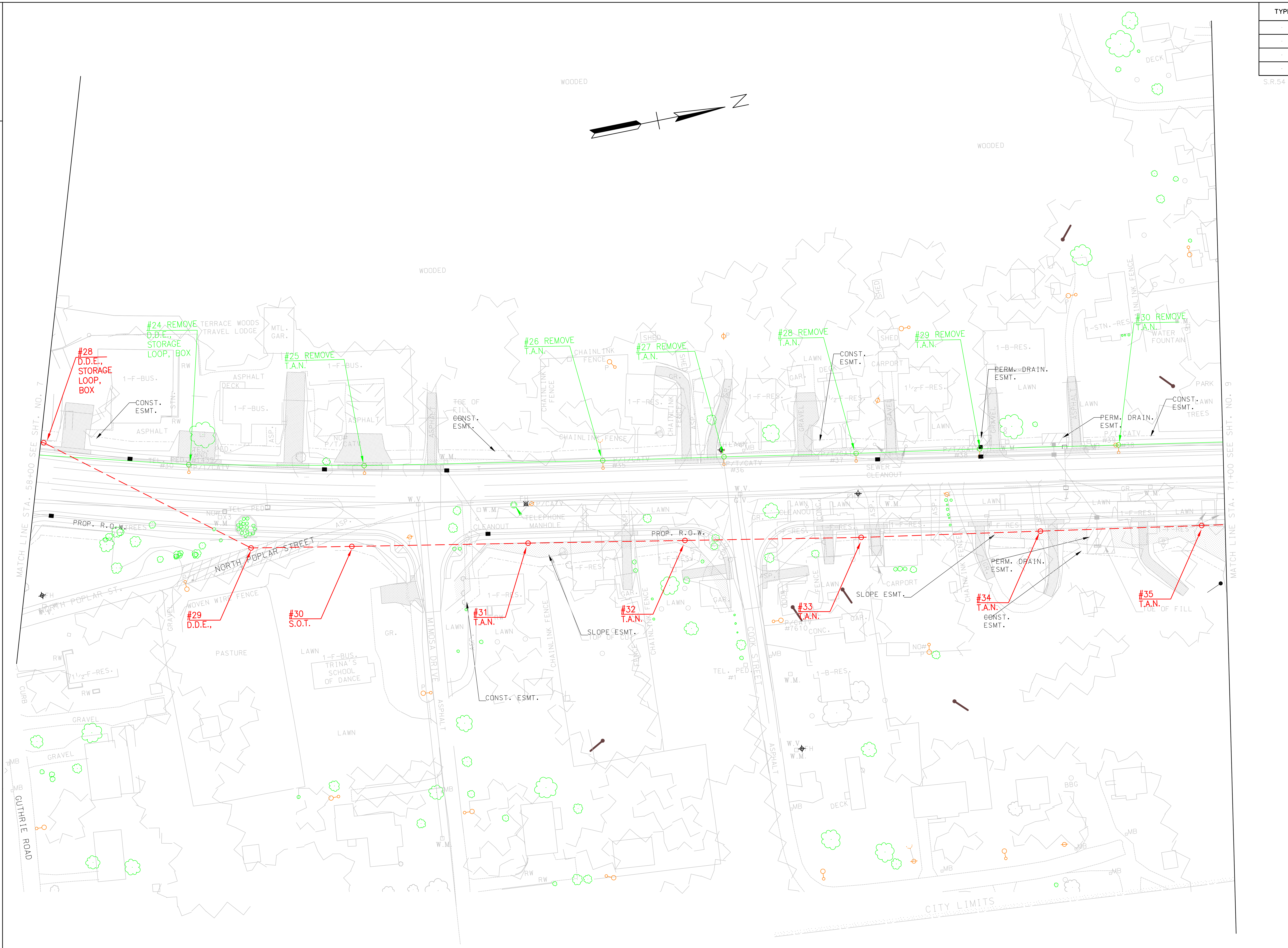
S.R.54 HENRY CO.



MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC
CABLE LAYOUT
STA. 58+00
TO
STA. 71+00

SCALE: 1"=_50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2012	.	U3-7
.	.	.	.
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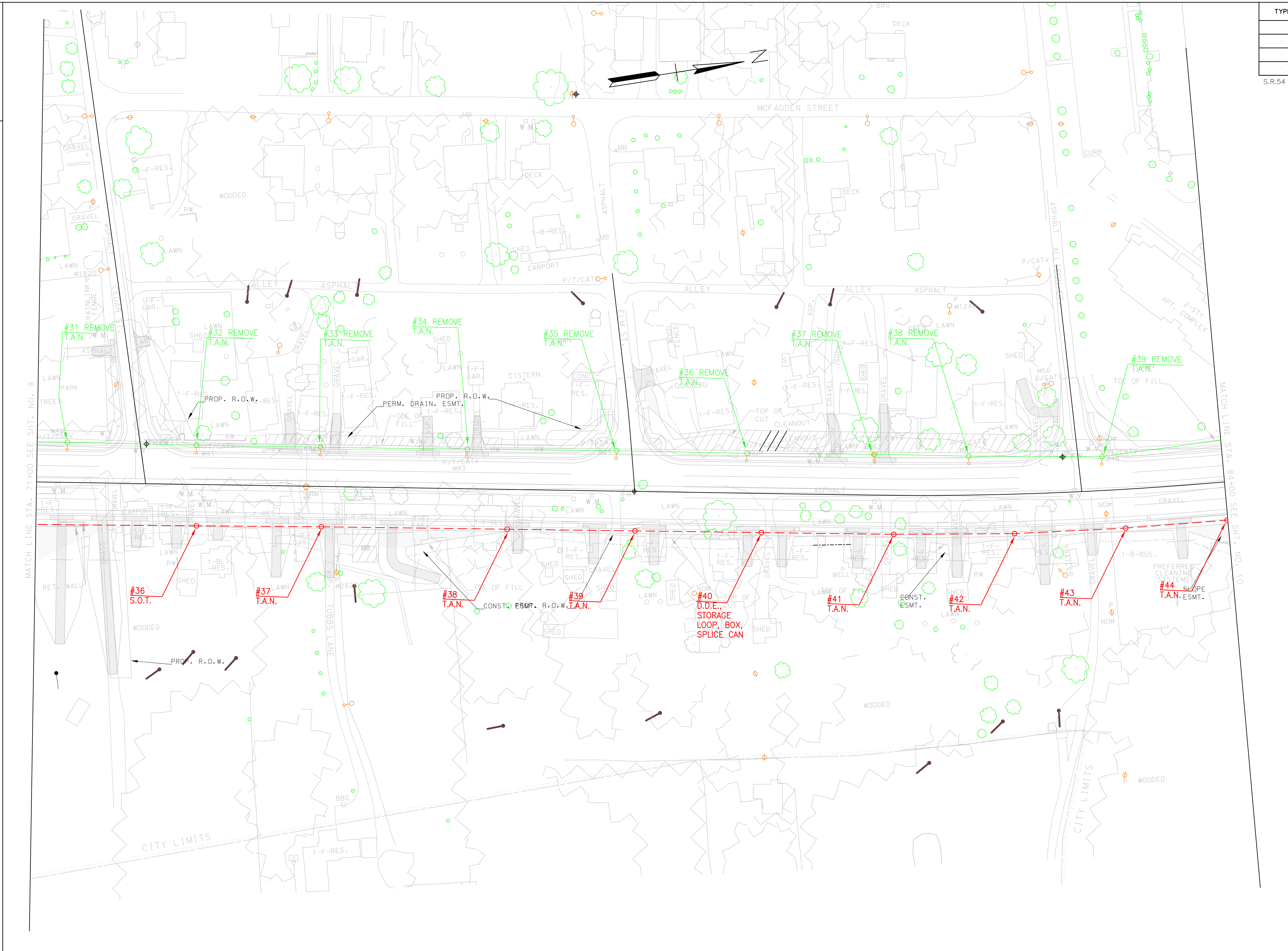
S.R.54 HENRY CO.



$$$$SYTIME$$$$$$$
$$$$DGNSPEC$$$

MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC
CABLE LAYOUT

STA. 71+00
TO
STA. 84+00

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2012	.	U3-8
.	.	.	.
.	.	.	.
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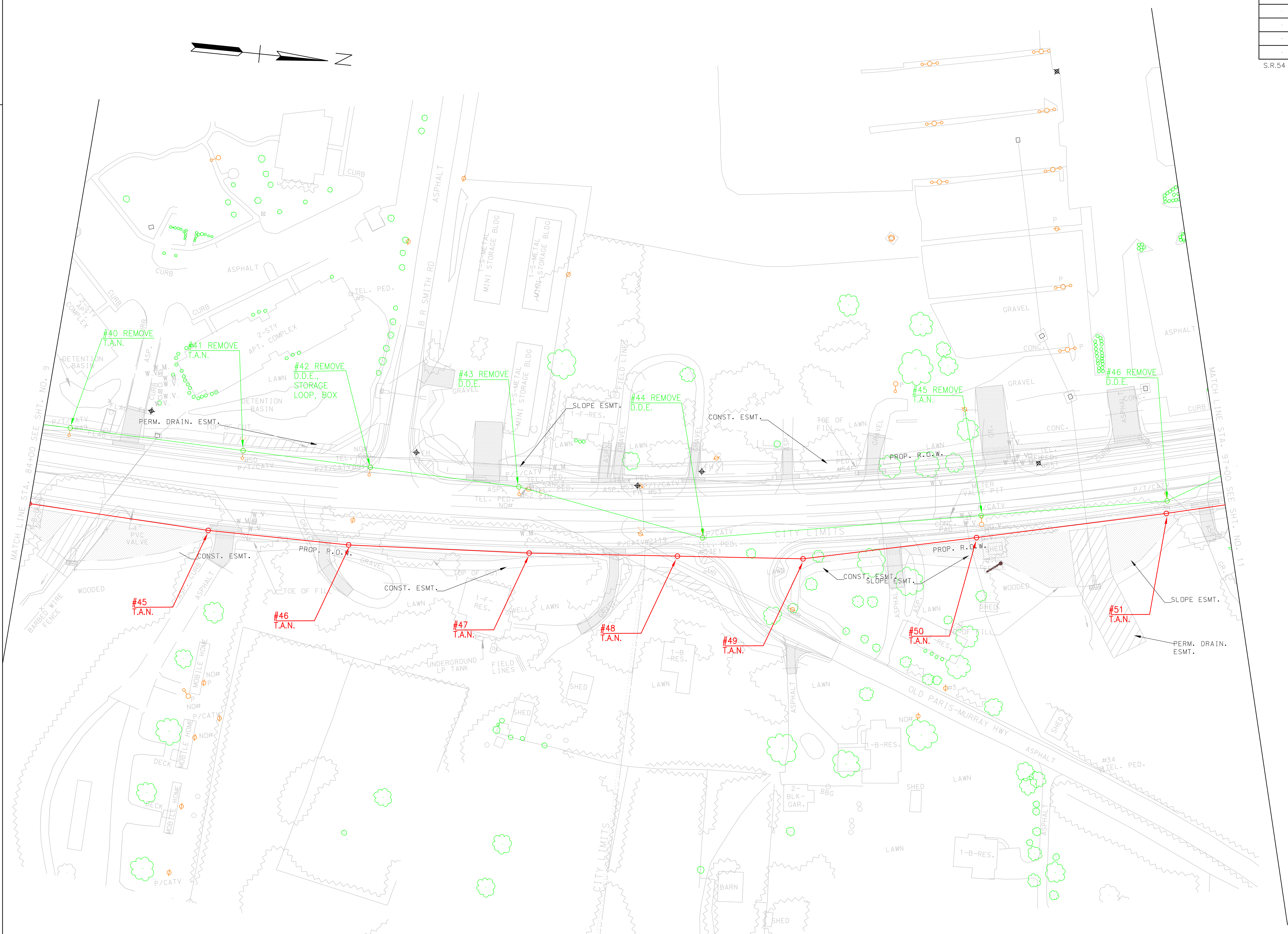
S.R.54 HENRY CO.



$$$$SYTIME$$$$$$
$$$DGNSPEC$$

MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC
CABLE LAYOUT
STA. 84+00
TO
STA. 97+00

SCALE: 1"= 50'

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2012	.	U3-9
.	.	.	.
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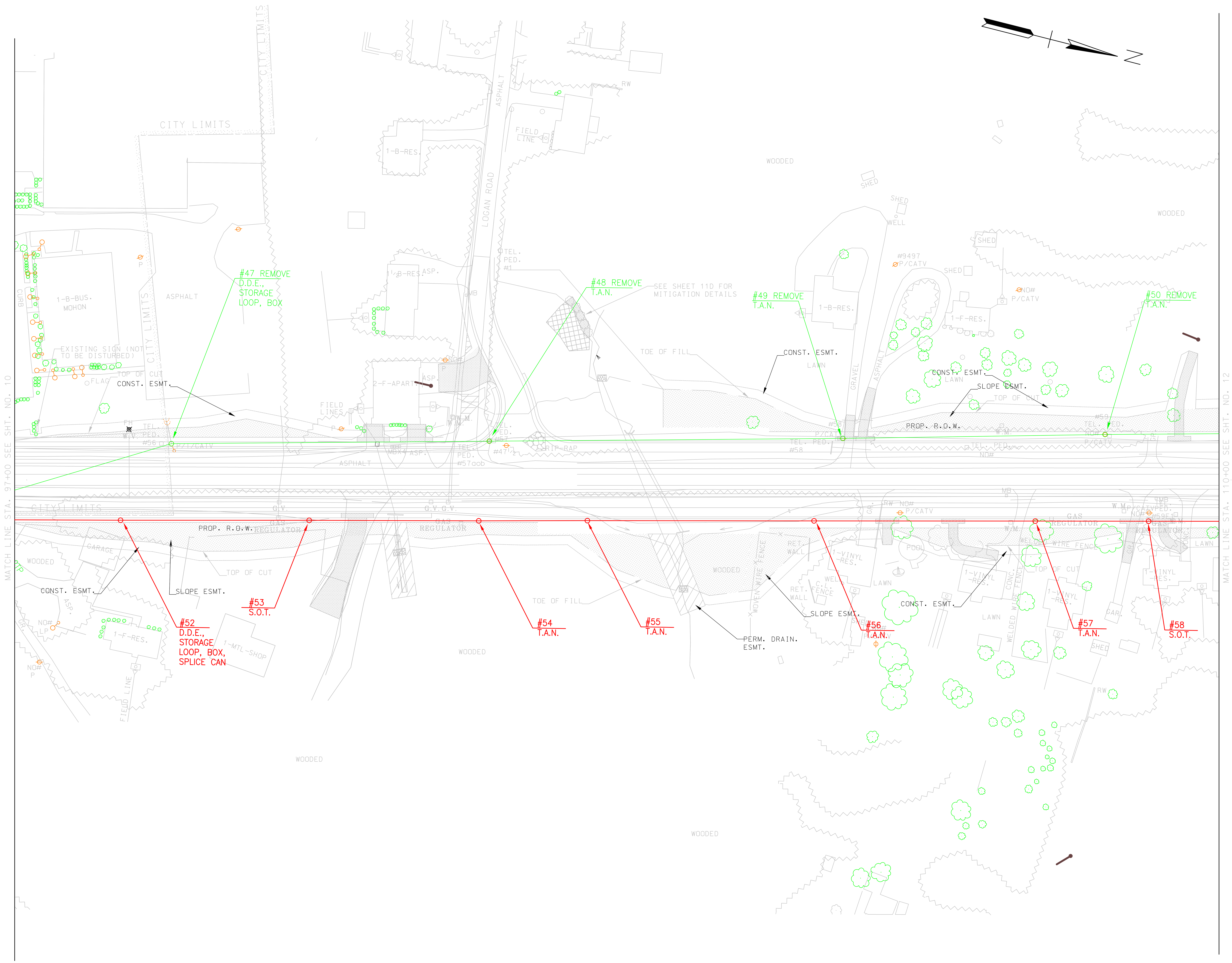
S.R.54 HENRY CO.



$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC
CABLE LAYOUT

STA. 97+00
TO
STA. 110+00

SCALE: 1"=_50'

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2012	.	U3-10
.	.	.	.
.	.	.	.
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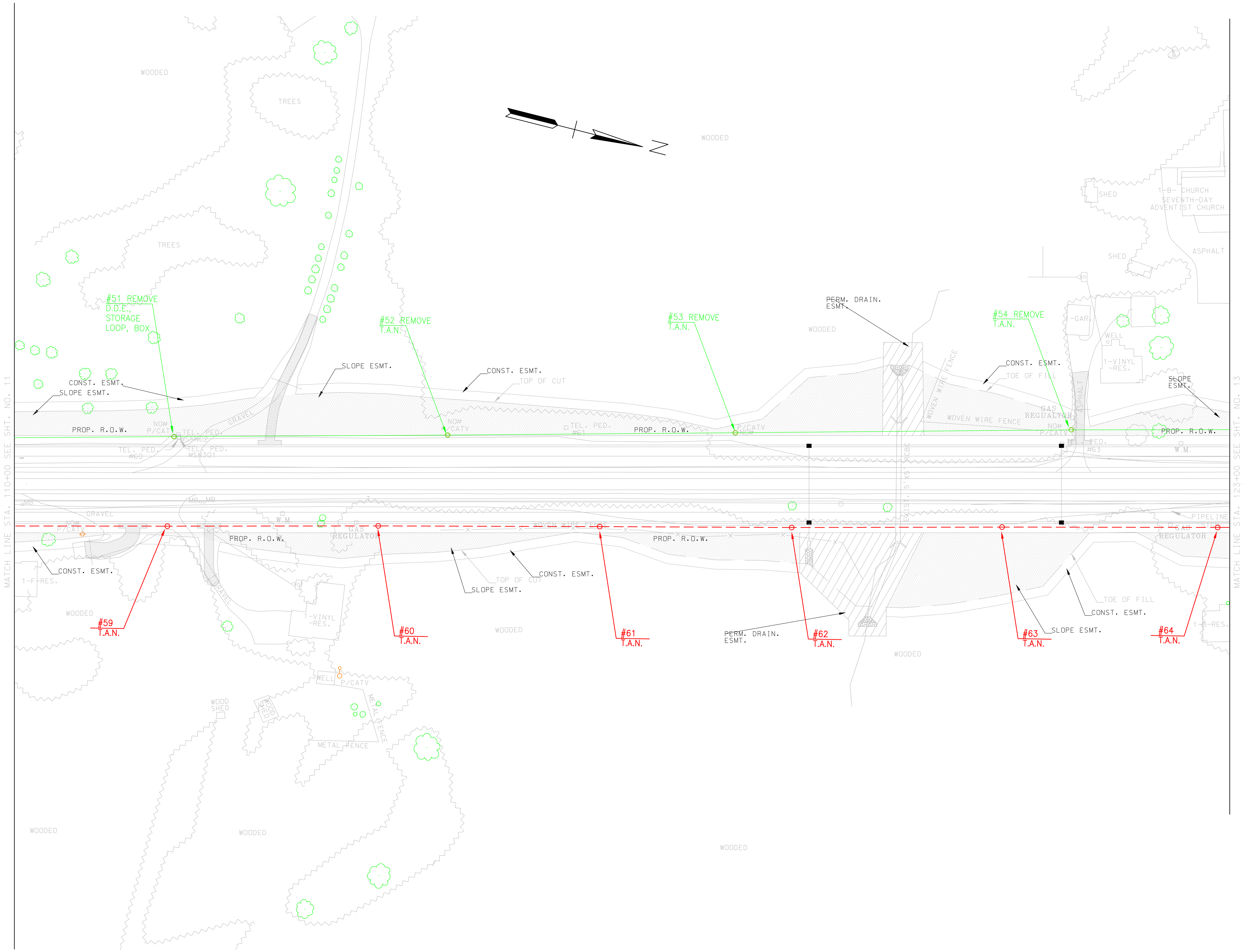
S.R.54 HENRY CO.



$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC
CABLE LAYOUT

STA. 110+00
TO
STA. 123+00

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2012	.	U3-11
.	.	.	.
.	.	.	.
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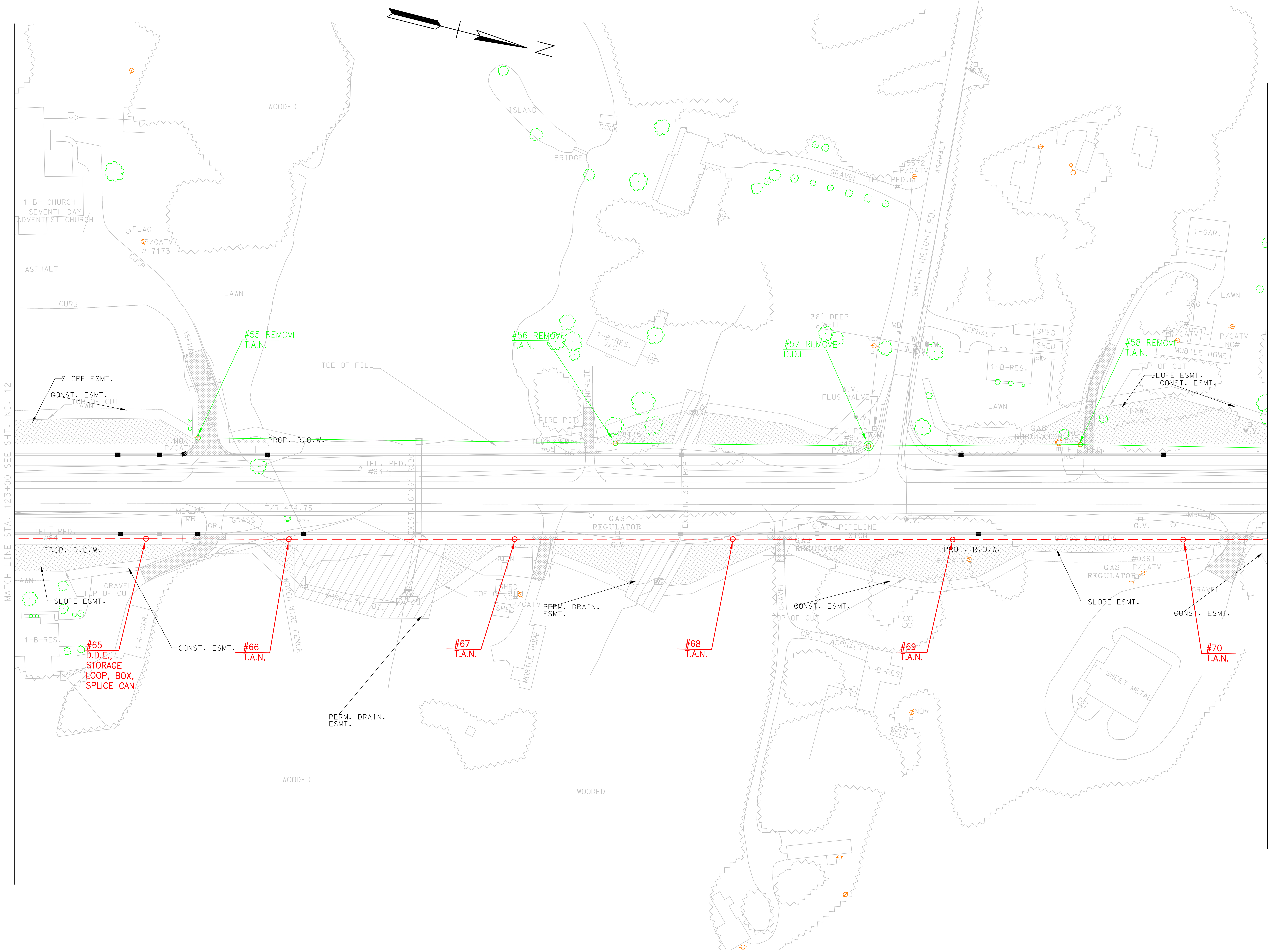
S.R.54 HENRY CO.



MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC
CABLE LAYOUT

STA. 123+00
TO
STA. 136+00

SCALE: 1"=_50'

$$$$SYTIME$$$$$$$
$$$$DGNSPEC$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2012	.	U3-12
.	.	.	.
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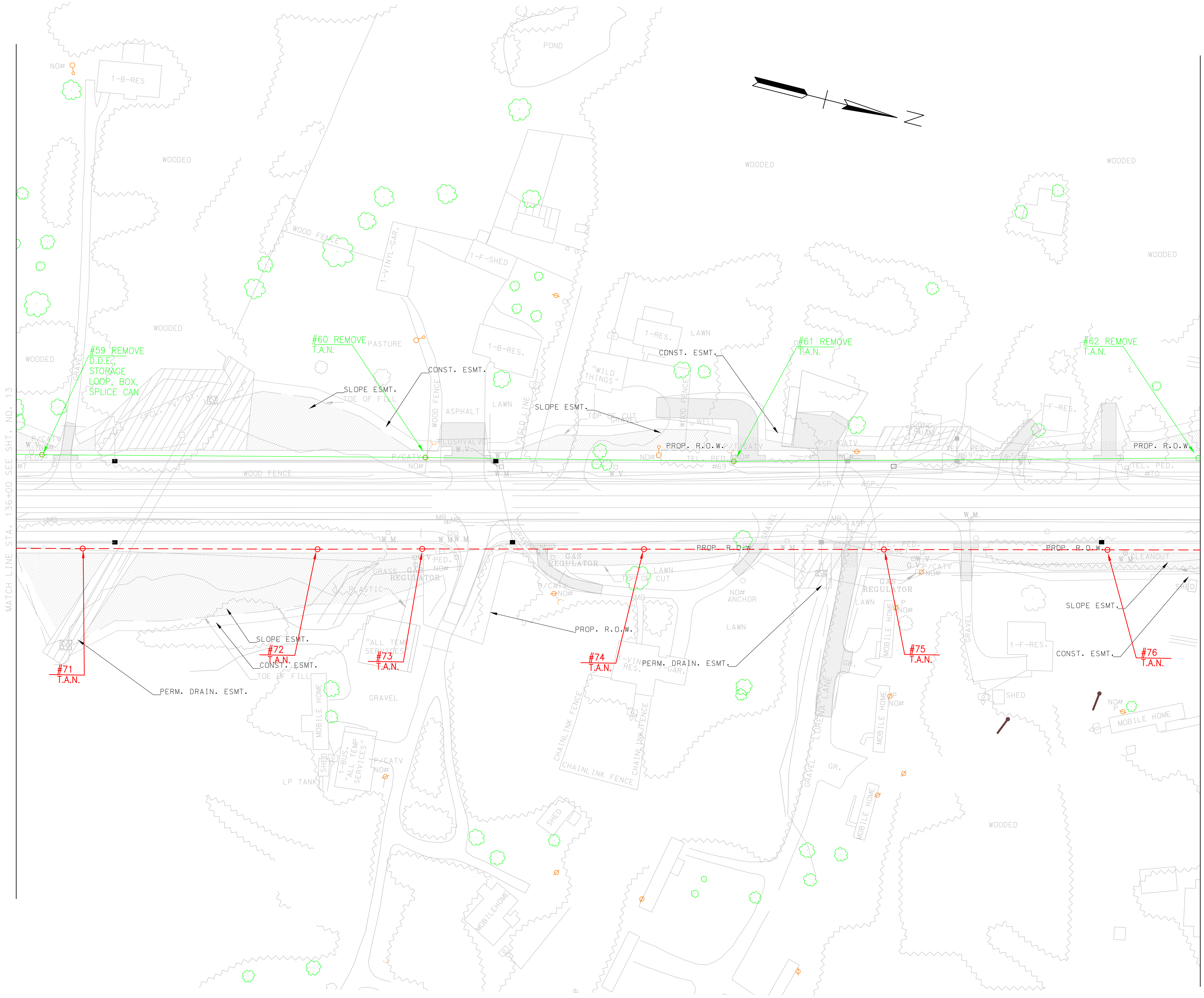
S.R.54 HENRY CO.



MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC
CABLE LAYOUT

STA. 136+00
TO
STA. 148+00

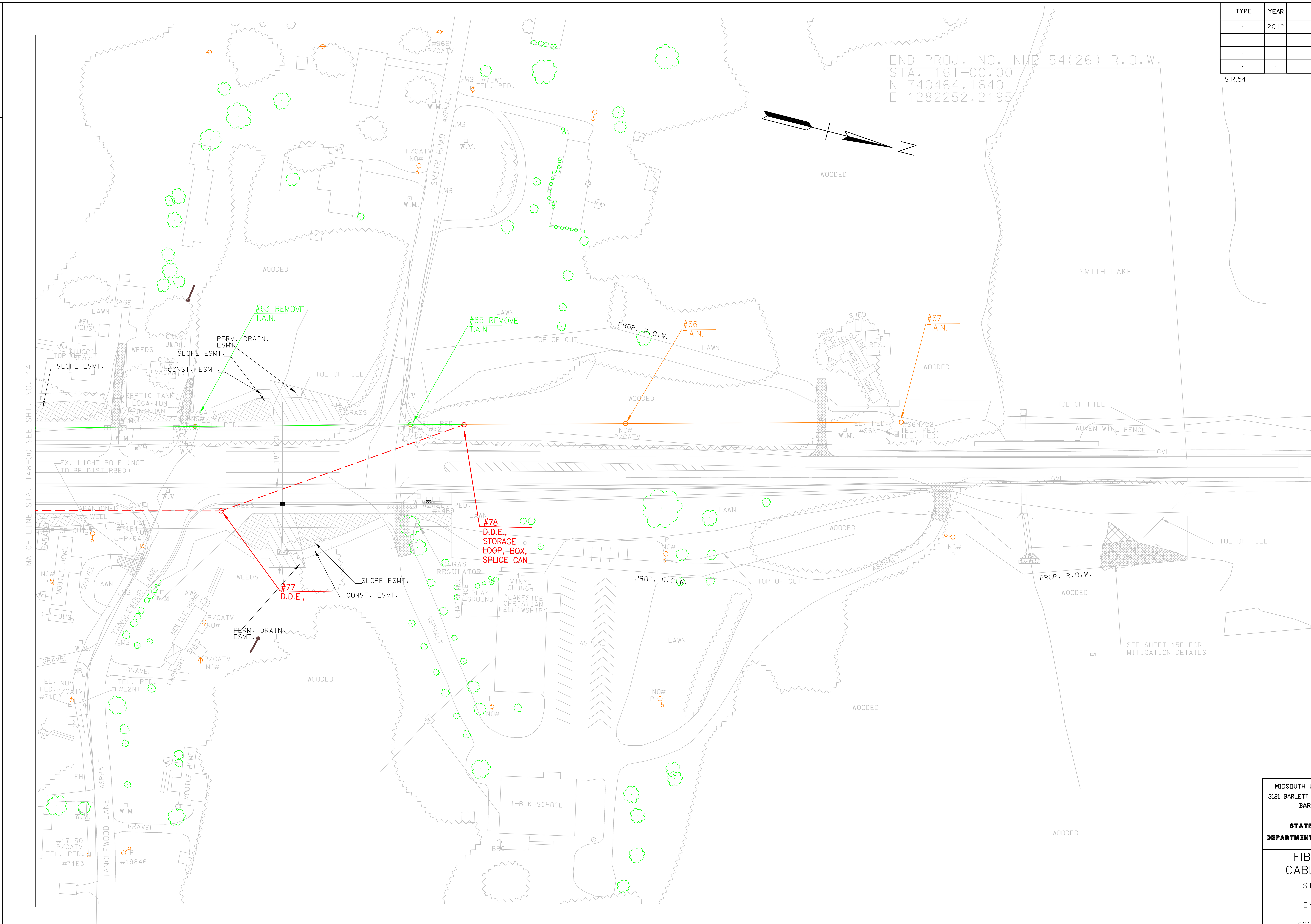
SCALE: 1"= 50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
	2012		U3-13

S.R.54 HENRY CO.



MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

FIBER OPTIC
CABLE LAYOUT

STA. 148+00
TO
END PROJECT

SCALE: 1"=_50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	NHE-54(26)	U5-1
		400003-2218-14	

HENRY COUNTY

INDEX OF DRAWINGS

U5-1 COVER SHEET
U5-2 NWHUD - WATER LAYOUT STA. 84+00 TO STA. 97+00
U5-3 NWHUD - WATER PROFILE STA. 84+00 TO STA. 97+00
U5-4 NWHUD - WATER LAYOUT STA. 97+00 TO STA. 110+00
U5-5 NWHUD - WATER PROFILE STA. 97+00 TO STA. 110+00
U5-6 NWHUD - WATER LAYOUT STA. 110+00 TO STA. 123+00
U5-7 NWHUD - WATER PROFILE STA. 110+00 TO STA. 123+00
U5-8 NWHUD - WATER LAYOUT STA. 123+00 TO STA. 136+00
U5-9 NWHUD - WATER PROFILE STA. 123+00 TO STA. 136+00
U5-10 NWHUD - WATER LAYOUT STA. 136+00 TO STA. 148+00
U5-11 NWHUD - WATER PROFILE STA. 136+00 TO STA. 148+00
U5-12 NWHUD - WATER LAYOUT STA. 148+00 TO END PROJECT
U5-13 NWHUD - WATER PROFILE STA. 148+00 TO END PROJECT
U5-14 NWHUD - WATER DETAILS

	ITEM	DESCRIPTION	UNIT	TOTAL QUANTITY	PERCENT UTILITY	PERCENT PROJECT
1	795-02.33	6IN HDPE WATER LINE (HDD)	LF	386	0	100
2	795-03.05	6IN PVC WATER LINE	LF	6716	0	100
1	795-05.06	HDD 12IN HDPE CASING PIPE-UNCON	LF	250	0	100
	795-06.33	CUT AND CAP 6IN WATERLINE	EA	6	0	100
	795-06.34	CUT AND CAP 4IN WATERLINE	EA	1	0	100
3	795-07.01	4IN X 4IN TAPPING SLEEVE AND VALVE	EA	1	0	100
3	795-07.03	6IN X 6IN TAPPING SLEEVE AND VALVE	EA	6	0	100
4	795-08.04	6IN GATE VALVE ASSEMBLY	EA	6	0	100
5	795-09.01	3/4IN WATER SERVICE METER ASSEMBLY	EA	19	0	100
6	795-09.14	3/4IN HDPE SERVICE PIPE	LF	900	0	100
6	795-09.24	TI OF 2IN HDPE CASING FOR SERVICE PIPE-UNCON	LF	875	0	100
5	795-11.02	FIRE HYDRANT ASSEMBLY	EA	1	0	100
7	795-11.02	DI FITTINGS	LB	1800	0	100

1. INCLUDES ALL MATERIALS, LABOR, EQUIPMENT, AND TRAFFIC CONTROL, INCLUDING BUT NOT LIMITED TO FLUID CONTAINMENT FOR COMPLETE HORIZONTAL DIRECTIONAL DRILLING INSTALLATION OF CASING PIPE OR UNCASED CARRIER PIPE IN BOTH UNCONSOLIDATED SOIL OR ROCK. IF CASING PIPE HAS CARRIER PIPE, THE CARRIER PIPE SHALL BE PAID AT THE OPEN CUT ITEM.
2. INCLUDES ALL MATERIALS, LABOR, EQUIPMENT FOR COMPLETE INSTALLATION OF PIPE INCLUDING BUT NOT LIMITED TO TRAFFIC CONTROL, MATERIALS, EQUIPMENT, EXCAVATION IN BOTH UNCONSOLIDATED AND ROCK, REMOVAL AND REPLACEMENT OF UNSUITABLE SOIL, ENVELOPE/BEDDING MATERIAL, BACKFILLING, FLOWABLE FILL, THRUST BLOCKING, CONCRETE DEADMAN, PIPE FUSION, TRACER WIRE, WARNING TAPE, APPURTENANCES, TEMPORARY/PERMANENT SHORING, MAINTAINING THE TRENCH, TESTING, FLUSHING, DISINFECTION, BACTERIOLOGICAL SAMPLING, TEMPORARY/PERMANENT SURFACE RESTORATION, AND ANY OTHER LABOR OR MATERIAL REQUIRED TO COMPLETE THE WORK AS SPECIFIED ON THE PLANS.
3. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO TAPPING SLEEVE, VALVE, VALVE BOX, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING AND RESTRAINT, TAP OF EXISTING LINE, AND TRAFFIC CONTROL.
4. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO FITTINGS, VALVE, VALVE STEM EXTENSIONS, VALVE BOX AND COVER, BOX ADJUSTMENT, VALVE BOX COLLAR, VALVE MARKER, EXCAVATION, BEDDING, BACKFILL, BLOCKING, AND TRAFFIC CONTROL.
5. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT INCLUDING BUT NOT LIMITED TO MACHINERY, TOOLS OR APPARATUS NECESSARY FOR INSTALLATION OF ASSEMBLIES AS DESCRIBED IN THE PLANS AND SPECS EXCEPT FOR SERVICE LINE WHICH IS PAID SEPARATELY FOR EACH FOOT INSTALLED.
6. INCLUDES ALL MATERIALS, LABOR AND EQUIPMENT FOR COMPLETE INSTALLATION OF SERVICE LINE OR CASING FOR SERVICE LINE ON LONG SIDE AND SHORT SIDE OF MAIN.
7. INCLUDES FITTINGS, GLANDS AND RESTRAINT DEVICES DESCRIBED IN POUNDS.

UTILITY INFORMATION

NORTHWEST HENRY UTILITY DISTRICT
P.O. BOX 1356
PARIS, TN 38242
DALE O'DANIEL
PHONE: 731-644-7911
FAX: 731-644-7347
EMAIL: daleodaniel1@gmail.com

ROBERT C. SMITH
REGISTERED ENGINEER
AGRICULTURE COMMERCE
NO. 19797
STATE OF TENNESSEE
9-4-15

TLM
ARCHITECTS + ENGINEERS
117 East Lafayette Street
Jackson, Tennessee 38301
Phone: (731) 988-9640
Fax No: (731) 988-9959
Web Site:
www.tlmassociates.com

NWHUD-WATER

WATER RELOCATION

COVER SHEET

WATER LINE RELOCATION PROJECT
FOR NORTHWEST HENRY UTILITY
DISTRICT. CONTACT: DALE O'DANIEL
731-644-7911

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	NHE-54(26)	U5-2
		400003-2218-14	

HENRY COUNTY

REV 06-22-12: REMOVED RESIDENTIAL STRUCTURES FROM TRACT 83; ADDED DRIVE TO TRACT 78; REVISED DRAINAGE ESMT. TRACT 76; REMOVED DRAIN. ESMTS. FROM TRACT 83 NEAR STA. 90+50 & 91+50 LT.; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV 08-10-12: REVISED DRAIN. ESMT. TRACT 75; ADDED DRAIN. ESMT. TRACT 76

REV 08-30-12: CORRECTED B.R. SMITH RD. STATION & COORDINATES AT ALIGNMENT CROSSING

REV 11-05-12: CHANGED OWNER NAME TRACTS

REV 06-03-13: ADDED PVT. DRIVE RT. OLD PARIS-MURRAY HWY ON TRACT 80

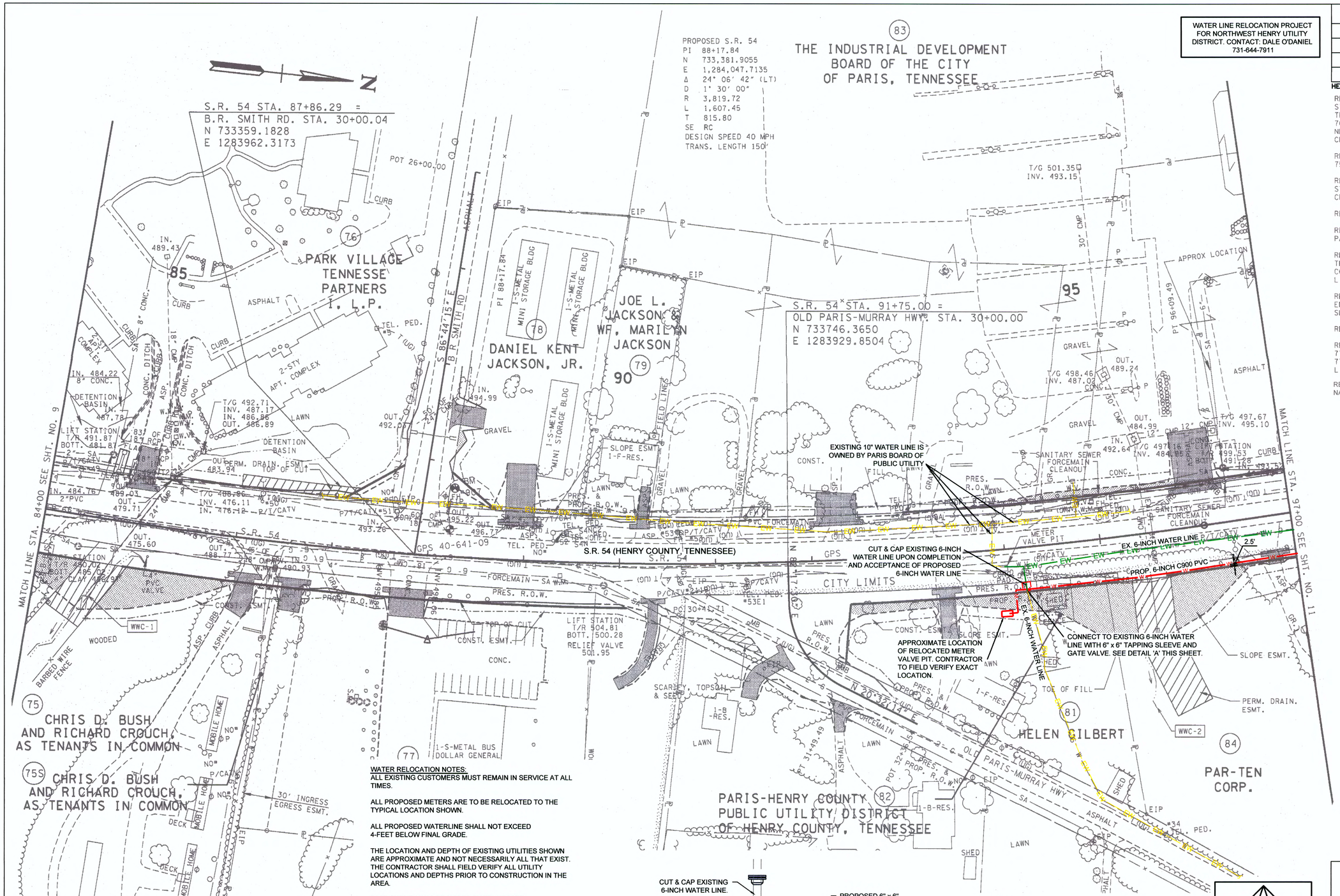
REV 07-08-13: REMOVED 4 DRIVES FROM TRACT 83 & WIDENED 2 DRIVES, ADJUSTED CONST. ESMT. & SLOPE LINES

REV 09-10-13: UPDATED TOPO, RELOCATED ENTRANCE, UPDATED SLOPE LINES, REVISED SLOPE & CONST. ESMT. TRACT 77

REV 10-03-13: REVISED GAS LINE LOCATIONS

REV 05-20-14: ADDED DRIVE IN ESMT. TRACT 77; ADDED TRACT 77A; ADDED DRIVE TRACT 77A; ADDED TRACT 75S; REVISED PROPERTY LINES TRACTS 75, 75S, 77,77A & 80

REV 08-01-14: CHANGED PROPERTY OWNER NAME TRACT 77



WATER RELOCATION NOTES:
ALL EXISTING CUSTOMERS MUST REMAIN IN SERVICE AT ALL TIMES.

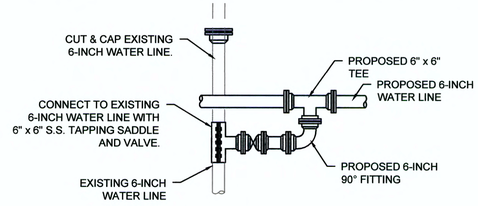
ALL PROPOSED METERS ARE TO BE RELOCATED TO THE TYPICAL LOCATION SHOWN.

ALL PROPOSED WATERLINE SHALL NOT EXCEED 4-FEET BELOW FINAL GRADE.

THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NOT NECESSARILY ALL THAT EXIST. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION IN THE AREA.

BASE SURVEY WAS PROVIDED BY TENNESSEE DEPT. OF TRANSPORTATION IN THE FORM OF ROADWAY DESIGN PROJECT NHE-54(26). ONLY THE INFORMATION REGARDING WATERLINE RELOCATION HAS BEEN PROVIDED BY TLM ASSOCIATES, INC.

ALL CONTRACTORS SHALL BE AWARE THAT THERE MAY BE OTHER CONTRACTORS ON SITE WORKING ON OTHER PORTIONS OF THE PROJECT. CONTRACTORS SHALL COORDINATE AND COOPERATE WITH EACH OTHER TO AVOID CONFLICT AND DAMAGE TO EACH OTHERS WORK. IN PARTICULAR A NEW GAS MAIN WHICH IS CLOSE PROXIMITY TO THE PROPOSED 6" WATER LINE.



DETAIL 'A'
N.T.S.

NOTE:
FROM ± STA. 94+00 TO ± STA. 96+00 FILL SLOPE ON THE EAST SIDE OF S.R. 54 SHALL BE CONSTRUCTED WITHIN 1-FT OF FINAL GRADE BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.

EW	WATER TO REMAIN
EW	WATER TO BE RETIRED IN PLACE
W	PROPOSED WATER

TLM
ARCHITECTS + ENGINEERS
117 East Lafayette Street
Jackson, Tennessee 38301
Phone: (731) 988-9840
Fax No: (731) 988-9959
Web Site:
www.tlmassociates.com

STATE OF TENNESSEE
AGRICULTURE
ROBERT J. SMITH
LICENSED
NO. 102757

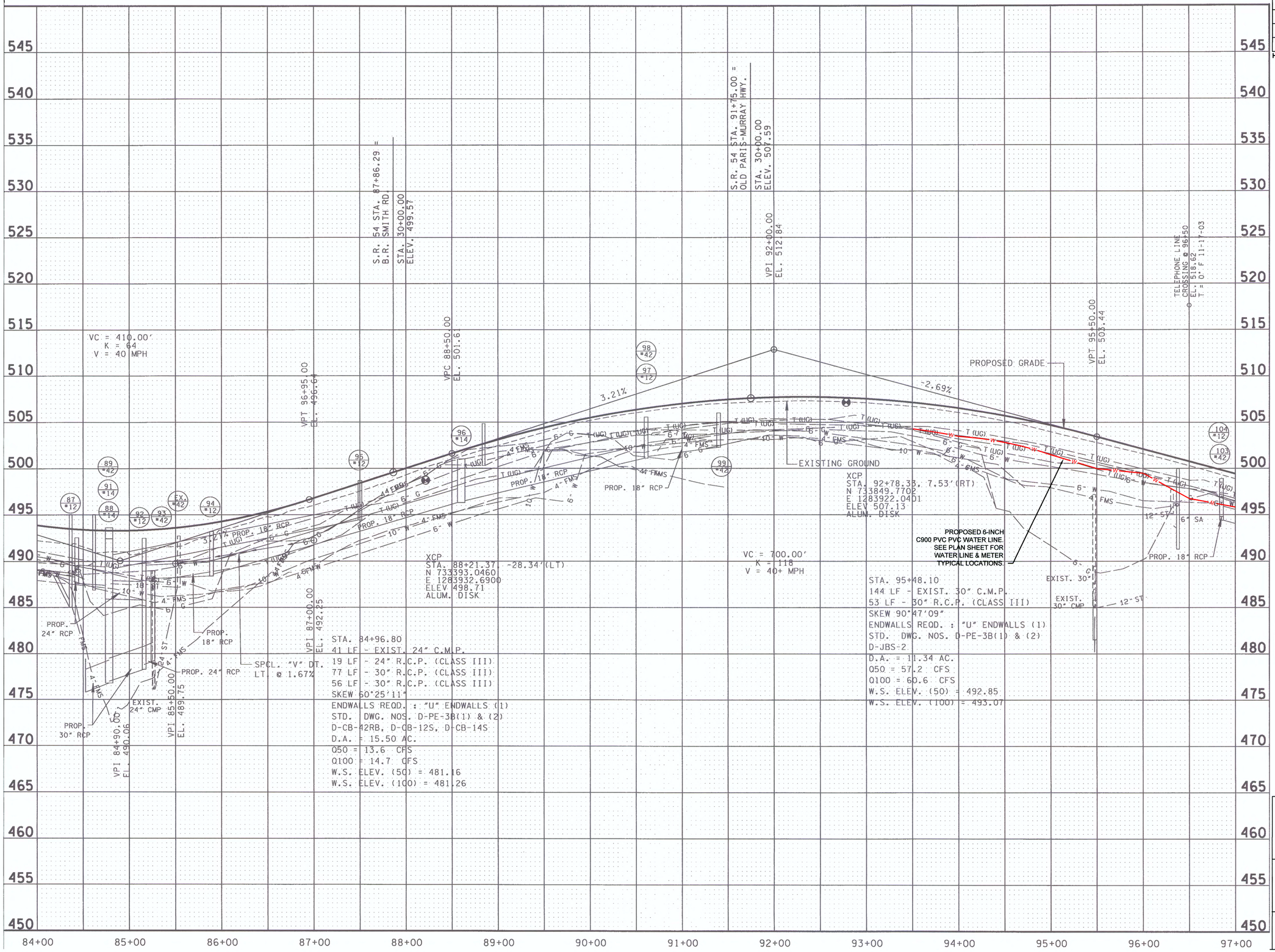
NWHUD – WATER LAYOUT

WATER RELOCATION

STA. 84+00 TO STA. 97+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	NHE-54(26)	U5-3
		400003-2218-14	

HENRY COUNTY



TLM
ARCHITECTS + ENGINEERS
117 East Lafayette Street
Jackson, Tennessee 38301
Phone: (731) 988-9840
Fax No: (731) 988-9959
Web Site:
www.tlmassociates.com

W PROPOSED WATER

ROBERT J. SAFIN
AGRICULTURE
STATE OF TENNESSEE

NWHUD – WATER PROFILE

WATER RELOCATION

STA. 84+00 TO STA. 97+00

SCALE: 1"=50'

WATER LINE RELOCATION PROJECT FOR NORTHWEST HENRY UTILITY DISTRICT. CONTACT: DALE O'DANIEL 731-644-7911

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	NHE-54(26)	U5-4
		400003-2218-14	

HENRY COUNTY

REV 06-22-12: ADDED NOTE TO AVOID SIGN ON TRACT 83 & ADJUSTED CONST. ESMT.; UPDATED TOPO TRACT 84 & ADDED DRIVE; ADDED PROP. CROSS DRAINS

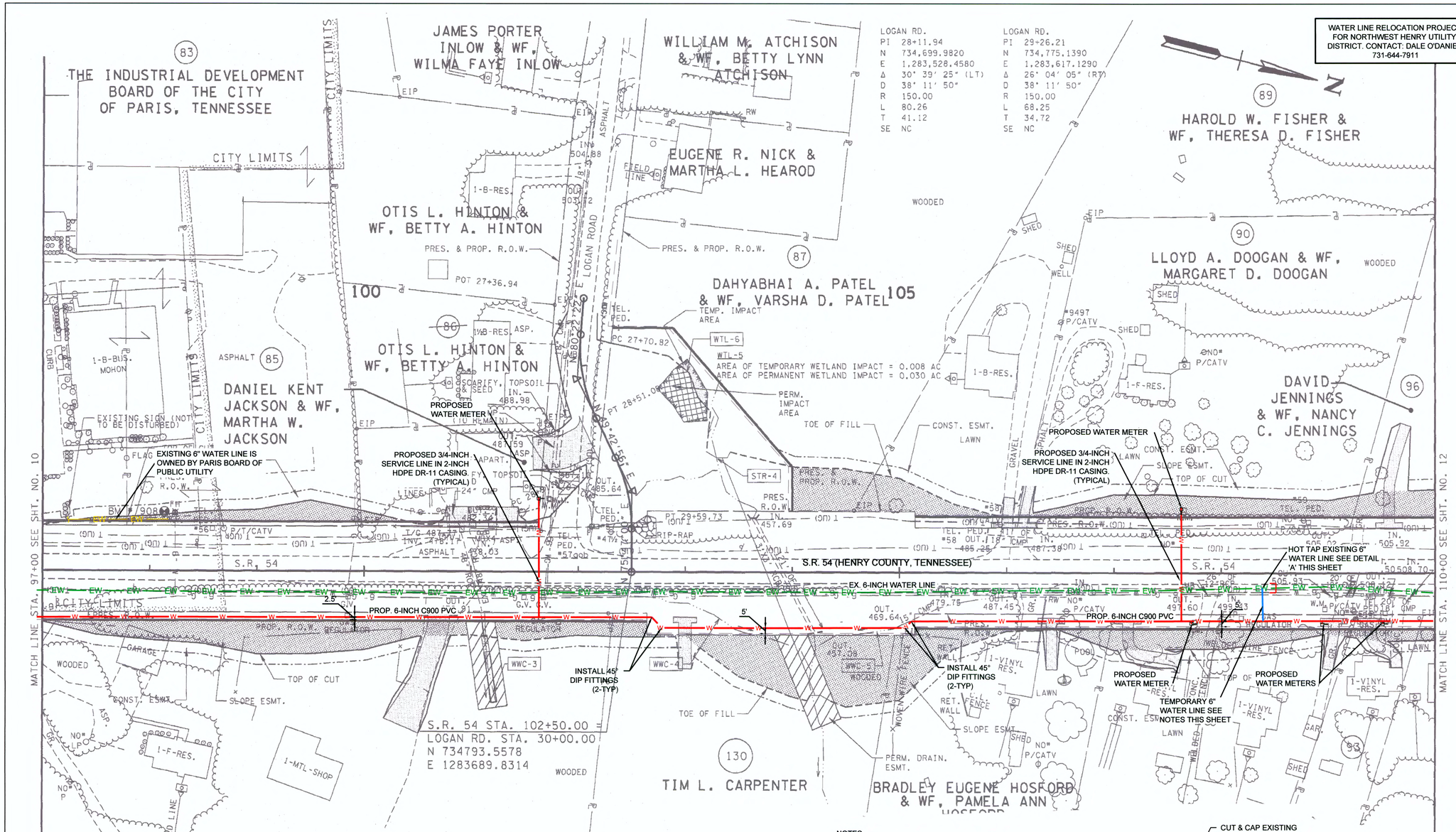
REV 08-10-12: REVISED DRAIN. ESMT. TRACTS 84 & 130; REMOVED DRAIN. ESMT. TRACT 85

REV 11-05-12: CHANGED OWNER NAME TRACTS 84 & 130

REV 06-03-13: REVISED LENGTH OF DRIVES TRACT 88, 91 & 93

REV 07-08-13: ADDED DRIVE TO TRACT 130; REVISED LENGTH OF DRIVE TRACT 91

REV 10-03-13: REVISED GAS LINE LOCATIONS



WATER RELOCATION NOTES:
ALL EXISTING CUSTOMERS MUST REMAIN IN SERVICE AT ALL TIMES.

ALL PROPOSED METERS ARE TO BE RELOCATED TO THE TYPICAL LOCATION SHOWN.

ALL PROPOSED WATERLINE SHALL NOT EXCEED 4-FEET BELOW FINAL GRADE.

THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NOT NECESSARILY ALL THAT EXIST. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION IN THE AREA.

BASE SURVEY WAS PROVIDED BY TENNESSEE DEPT. OF TRANSPORTATION IN THE FORM OF ROADWAY DESIGN PROJECT NHE-54(26). ONLY THE INFORMATION REGARDING WATERLINE RELOCATION HAS BEEN PROVIDED BY TLM ASSOCIATES, INC.

ALL CONTRACTORS SHALL BE AWARE THAT THERE MAY BE OTHER CONTRACTORS ON SITE WORKING ON OTHER PORTIONS OF THE PROJECT. CONTRACTORS SHALL COORDINATE AND COOPERATE WITH EACH OTHER TO AVOID CONFLICT AND DAMAGE TO EACH OTHERS WORK. IN PARTICULAR A NEW GAS MAIN WHICH IS CLOSE PROXIMITY TO THE PROPOSED 6" WATER LINE.

NOTES:
FROM ± STA. 97+50 TO ± STA. 100+50 CUT SLOPE ON THE EAST SIDE OF S.R. 54 SHALL BE CONSTRUCTED BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.

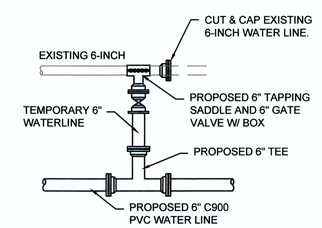
FROM ± STA. 100+50 TO ± STA. 103+00 FILL SLOPE ON THE EAST SIDE OF S.R. 54 SHALL BE CONSTRUCTED WITHIN 1-FT OF FINAL GRADE BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.

FROM ± STA. 102+00 TO ± STA. 102+50 CUT SLOPE ON THE EAST SIDE OF S.R. 54 SHALL BE CONSTRUCTED BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.

FROM ± STA. 103+00 TO ± STA. 106+00 FILL SLOPE ON THE EAST SIDE OF S.R. 54 SHALL BE CONSTRUCTED WITHIN 1-FT OF FINAL GRADE BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.

FROM ± STA. 107+00 TO ± STA. 108+00 CUT SLOPE ON THE EAST SIDE OF S.R. 54 SHALL BE CONSTRUCTED BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.

FROM ± STA. 108+50 TO ± STA. 116+00 CUT SLOPE ON THE EAST SIDE OF S.R. 54 SHALL REQUIRE THE REMOVAL OF EXISTING WATER LINE TO ACHIEVE FINAL GRADE. THE UTILITY CONTRACTOR SHALL COORDINATE WITH THE ROADWAY CONTRACTOR AND INSTALL TEMPORARY 6" WATER LINE AS NECESSARY TO MAINTAIN EXISTING WATER SERVICE.



DETAIL 'A'
N.T.S.

REMOVE TEMPORARY WATER LINE AND PROVIDE BLIND FLANGE AT TEE UPON ACCEPTANCE OF NEW WATER LINE

EW	WATER TO REMAIN
EW	WATER TO BE RETIRED IN PLACE
W	TEMPORARY WATER
W	PROPOSED WATER

TLM ARCHITECTS + ENGINEERS
117 East Lafayette Street
Jackson, Tennessee 38301
Phone: (731) 988-9840
Fax No: (731) 988-9959
Web Site:
www.tlmassociates.com

ROBERT J. SMITH AGRICULTURE LICENSED NO. 187757 STATE OF TENNESSEE 9-5-13

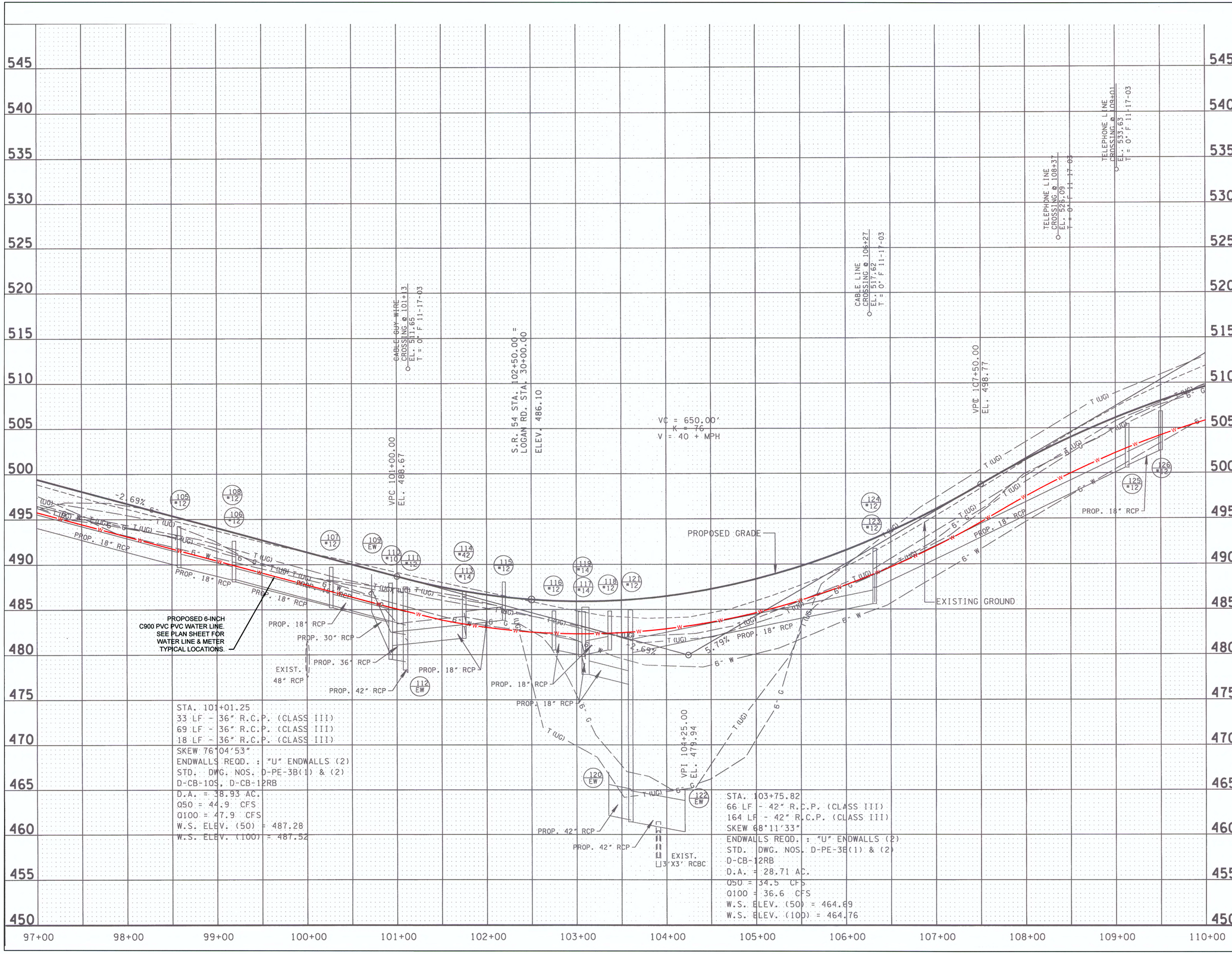
NWHUD – WATER LAYOUT

WATER RELOCATION

STA. 97+00 TO STA. 110+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	NHE-54(26)	U5-5
		400003-2218-14	

HENRY COUNTY



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W PROPOSED WATER

ROBERT J. SAFFLE
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 14337
STATE OF TENNESSEE

NWHUD – WATER PROFILE

WATER RELOCATION

STA. 97+00 TO STA. 110+00

SCALE: 1"=50'

WATER LINE RELOCATION PROJECT FOR NORTHWEST HENRY UTILITY DISTRICT. CONTACT: DALE O'DANIEL 731-644-7911

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	NHE-54(26)	U5-6
		400003-2218-14	

HENRY COUNTY

REV 06-22-12: REMOVED RESIDENTIAL STRUCTURES FROM TRACT 83; ADDED DRIVE TO TRACT 78; REVISED DRAINAGE ESMT. TRACT 76; REMOVED DRAIN. ESMTS. FROM TRACT 83 NEAR STA. 90+50 & 91+50 LT.; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV 08-10-12: REVISED DRAIN. ESMT. TRACT 75; ADDED DRAIN. ESMT. TRACT 76

REV 08-30-12: CORRECTED B.R. SMITH RD. STATION & COORDINATES AT ALIGNMENT CROSSING

REV 11-05-12: CHANGED OWNER NAME TRACTS

REV 06-03-13: ADDED PVT. DRIVE RT. OLD PARIS-MURRAY HWY ON TRACT 80

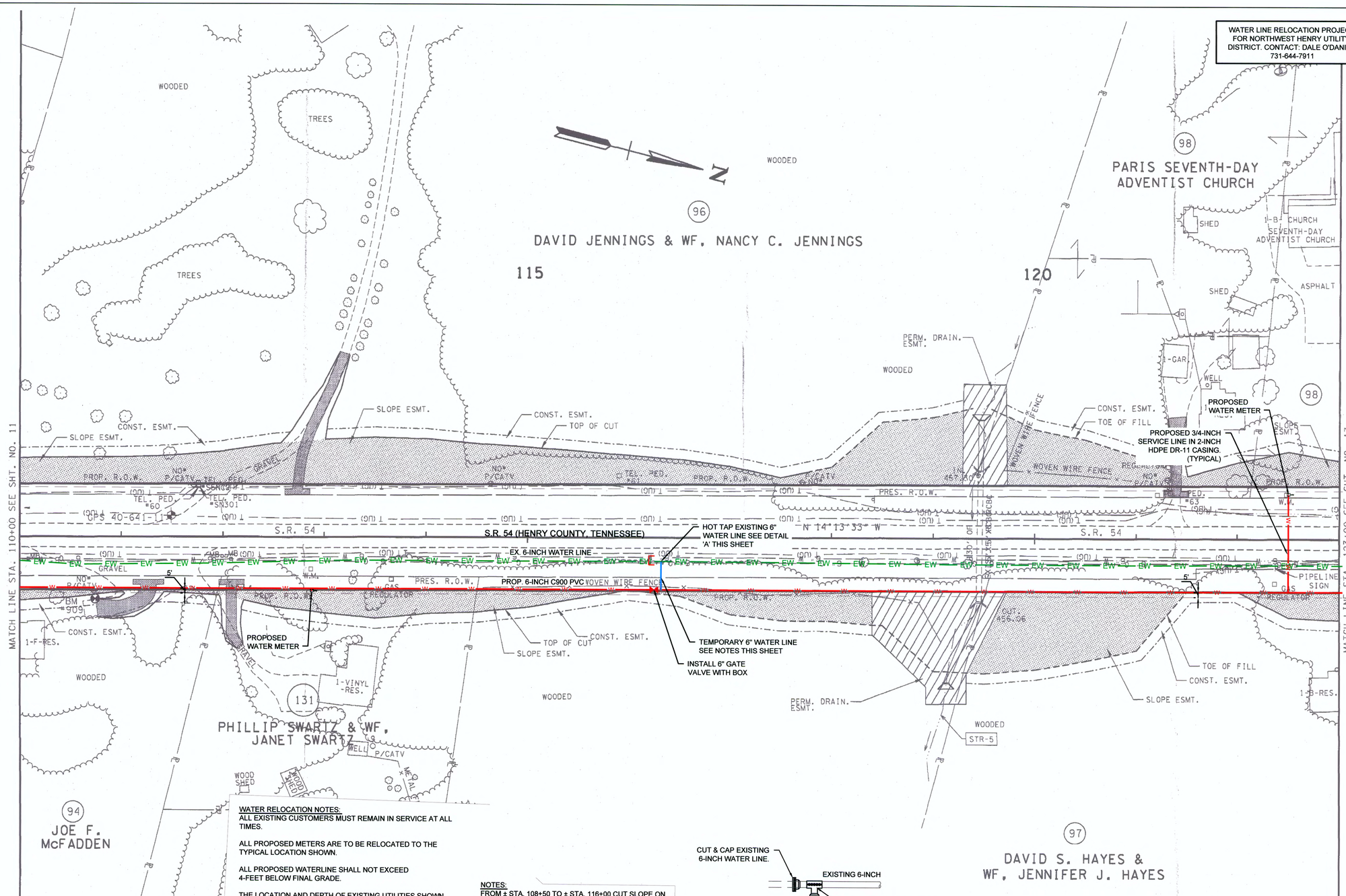
REV 07-08-13: REMOVED 4 DRIVES FROM TRACT 83 & WIDENED 2 DRIVES, ADJUSTED CONST. ESMT. & SLOPE LINES

REV 09-10-13: UPDATED TOPO, RELOCATED ENTRANCE, UPDATED SLOPE LINES, REVISED SLOPE & CONST. ESMT. TRACT 77

REV 10-03-13: REVISED GAS LINE LOCATIONS

REV 05-20-14: ADDED DRIVE IN ESMT. TRACT 77; ADDED TRACT 77A; ADDED DRIVE TRACT 77A; ADDED TRACT 75S; REVISED PROPERTY LINES TRACTS 75, 75S, 77,77A & 80

REV 08-01-14: CHANGED PROPERTY OWNER NAME TRACT 77



WATER RELOCATION NOTES:

ALL EXISTING CUSTOMERS MUST REMAIN IN SERVICE AT ALL TIMES.

ALL PROPOSED METERS ARE TO BE RELOCATED TO THE TYPICAL LOCATION SHOWN.

ALL PROPOSED WATERLINE SHALL NOT EXCEED 4-FEET BELOW FINAL GRADE.

THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NOT NECESSARILY ALL THAT EXIST. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION IN THE AREA.

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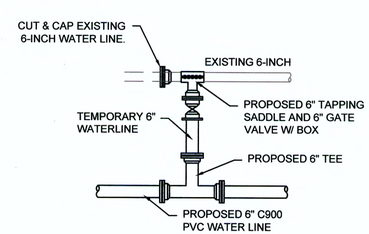
ALL CONTRACTORS SHALL BE AWARE THAT THERE MAY BE OTHER CONTRACTORS ON SITE WORKING ON OTHER PORTIONS OF THE PROJECT. CONTRACTORS SHALL COORDINATE AND COOPERATE WITH EACH OTHER TO AVOID CONFLICT AND DAMAGE TO EACH OTHERS WORK. IN PARTICULAR A NEW GAS MAIN WHICH IS CLOSE PROXIMITY TO THE PROPOSED 6" WATER LINE.

NOTES:

FROM ± STA. 108+50 TO ± STA. 116+00 CUT SLOPE ON THE EAST SIDE OF S.R. 54 SHALL REQUIRE THE REMOVAL OF EXISTING WATER LINE TO ACHIEVE FINAL GRADE. THE UTILITY CONTRACTOR SHALL COORDINATE WITH THE ROADWAY CONTRACTOR AND INSTALL TEMPORARY 6" WATER LINE AS NECESSARY TO MAINTAIN EXISTING WATER SERVICE.

FROM ± STA. 117+00 TO ± STA. 120+50 FILL SLOPE ON THE EAST SIDE OF S.R. 54 SHALL BE CONSTRUCTED WITHIN 1-FT OF FINAL GRADE BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.

FROM ± STA. 122+50 TO ± STA. 124+50 CUT SLOPE ON THE EAST SIDE OF S.R. 54 SHALL BE CONSTRUCTED BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.



DETAIL 'A'
N.T.S.

REMOVE TEMPORARY WATER LINE AND PROVIDE BLIND FLANGE AT TEE UPON ACCEPTANCE OF NEW WATER LINE

EW — EW	WATER TO REMAIN
EW — EW	WATER TO BE RETIRED IN PLACE
W	TEMPORARY WATER
W	PROPOSED WATER

ARCHITECTS + ENGINEERS
117 East Lafayette Street
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Web Site:
www.tlmassociates.com

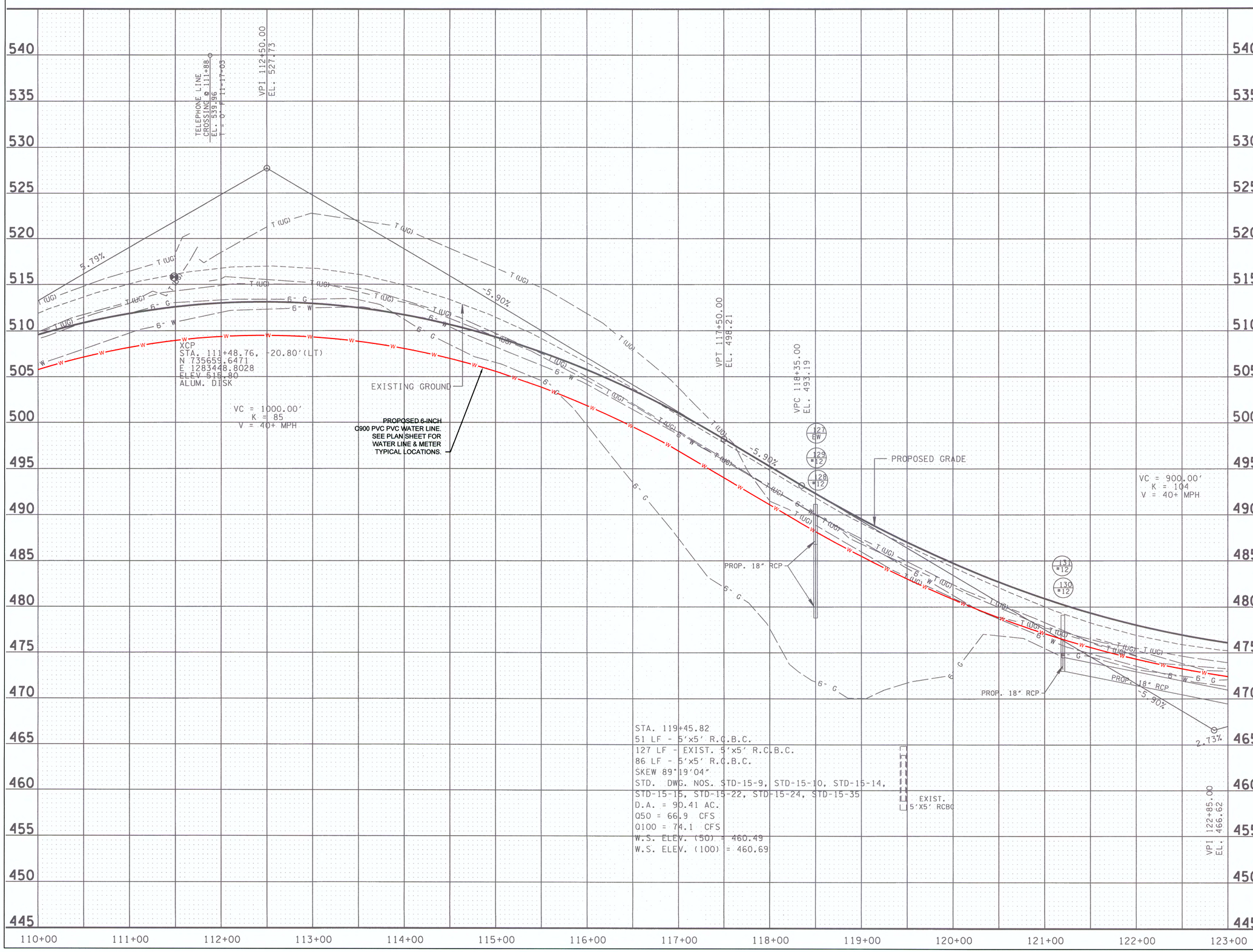
NWHUD – WATER LAYOUT

WATER RELOCATION

STA. 110+00 TO STA. 123+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	NHE-54(26)	U5-7
		400003-2218-14	

HENRY COUNTY



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Web Site:
www.tlmassociates.com

W PROPOSED WATER

ROBERT J. SAPPH
LICENSED PROFESSIONAL ENGINEER
AGRICULTURE COMMERCE INDUSTRY
STATE OF TENNESSEE
9-9-14

NWHUD – WATER PROFILE

WATER RELOCATION

STA. 110+00 TO STA. 123+00

SCALE: 1"=50'

WATER LINE RELOCATION PROJECT
FOR NORTHWEST HENRY UTILITY
DISTRICT. CONTACT: DALE O'DANIEL
731-644-7911

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	NHE-54(26)	U5-8
		400003-2218-14	

HENRY COUNTY

REV 06-22-12: REVISED DRIVE TRACT 98; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV 07-10-12: REVISED SLOPE ESMT. TRACTS 99 & 102 FOR RETAINING WALL

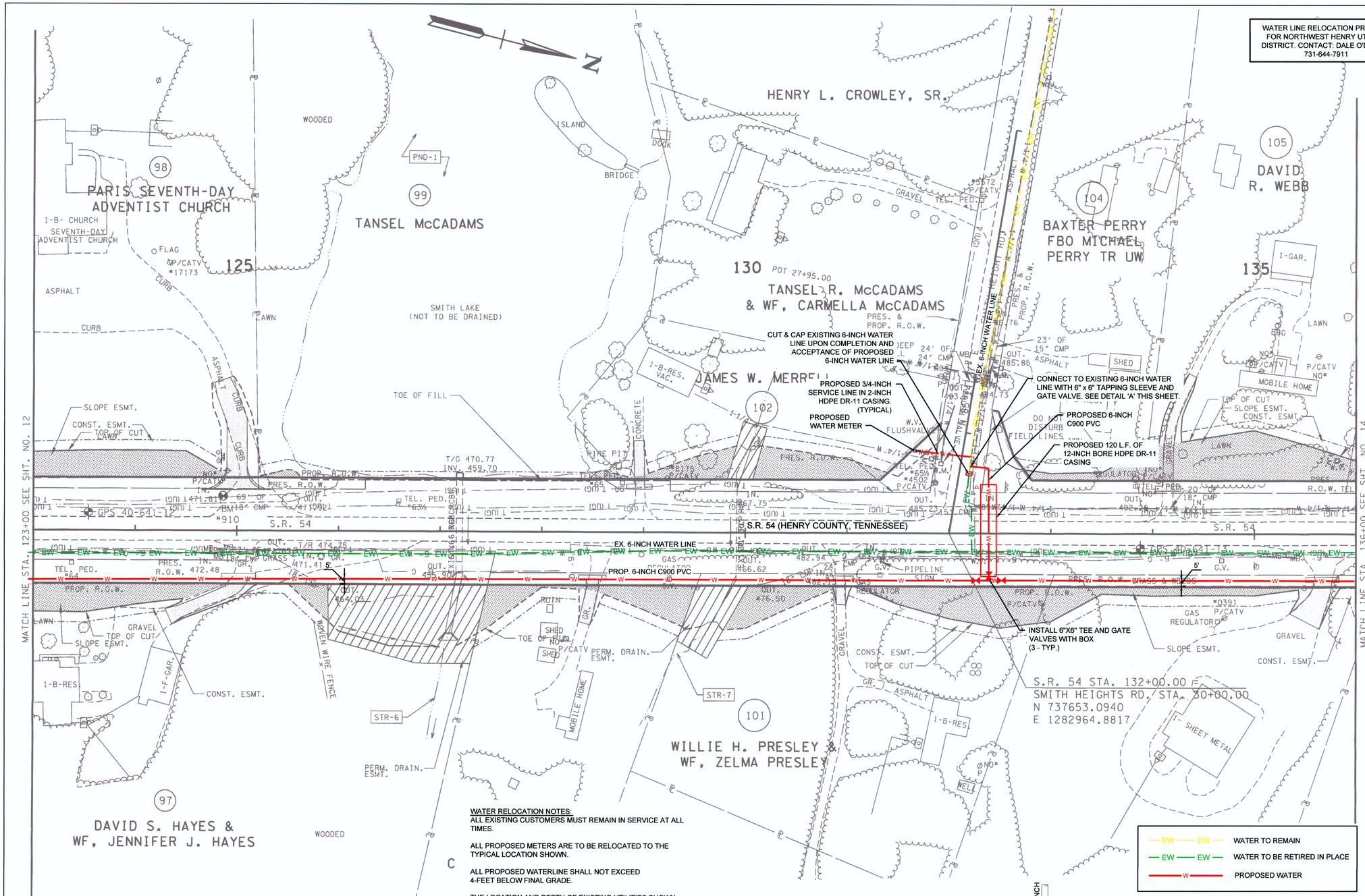
REV 08-10-12: REVISED DRAIN. ESMTS. TRACTS 101 & 102

REV 11-05-12: ADDED SURVEY TO TRACTS 102, 104 & 105; CHANGED OWNER NAME TRACT 104

REV. 06-03-13: CHANGED PROPERTY OWNER NAME TRACT 104

REV. 09-10-13: UPDATED FIELD LINE ON TRACT 104, REVISED CONST. ESMT. & ADDED NOTE TO AVOID FIELD LINE

REV. 10-03-13: REVISED GAS LINE LOCATIONS



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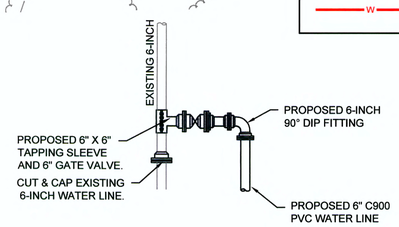
NOTES:
FROM ± STA. 126+00 TO ± STA. 130+50 FILL SLOPE ON THE EAST SIDE OF S.R. 54 SHALL BE CONSTRUCTED WITHIN 1-FT OF FINAL GRADE BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.

FROM ± STA. 131+00 TO ± STA. 135+50 CUT SLOPE ON THE EAST SIDE OF S.R. 54 SHALL BE CONSTRUCTED BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.



DETAIL 'A'
N.T.S.

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Jackson, Tennessee 38301
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www.tlmassociates.com

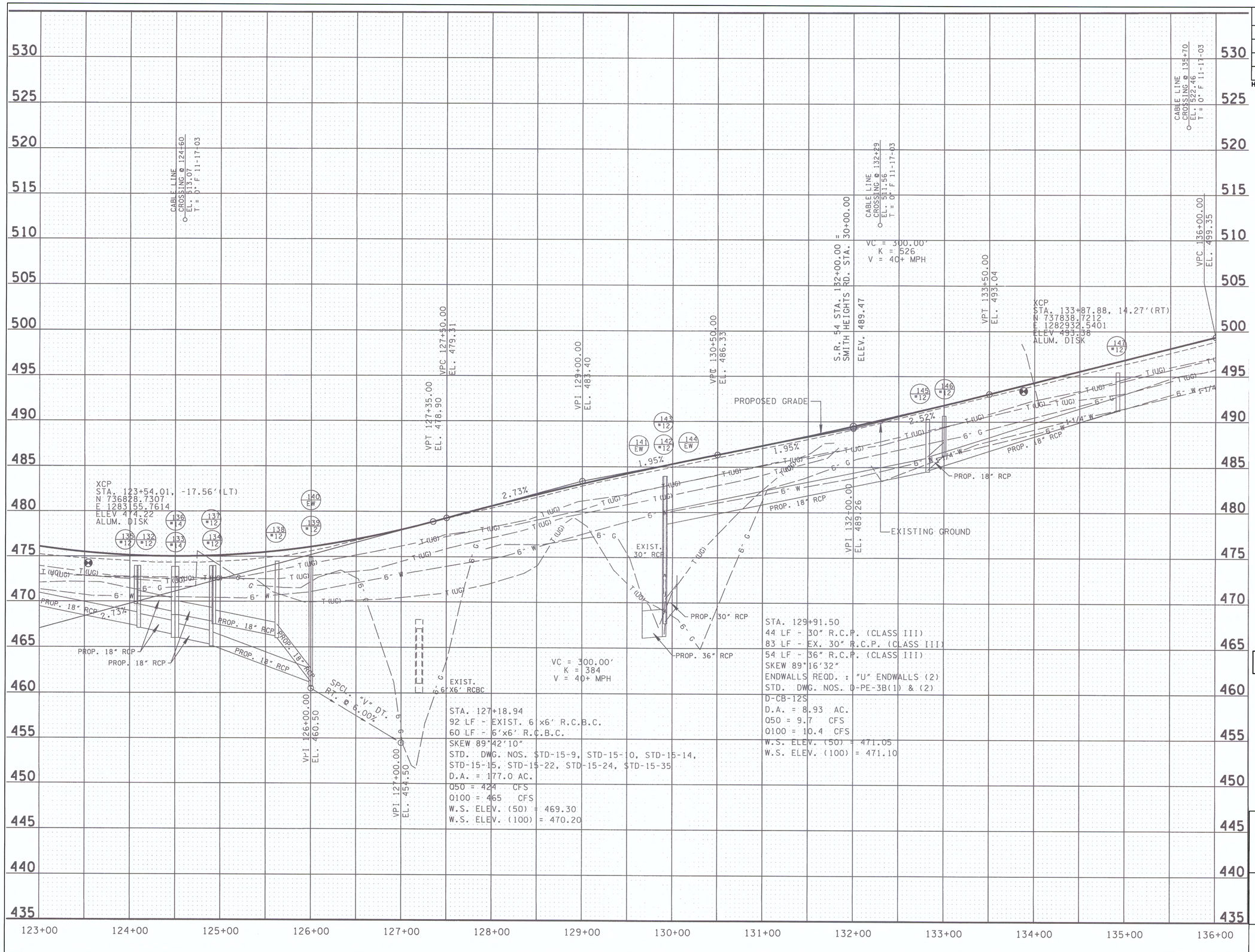
NWHUD – WATER LAYOUT

WATER RELOCATION

STA. 123+00 TO STA. 136+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	NHE-54(26)	U5-9
		400003-2218-14	

HENRY COUNTY



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Fax No: (731) 988-9959
Web Site:
www.tlmassociates.com

—W— PROPOSED WATER

ROBERT J. SAGER
REGISTERED ENGINEER
AGRICULTURE
NO. 120757
STATE OF TENNESSEE
9-4-14

NWHUD – WATER PROFILE

WATER RELOCATION

STA. 123+00 TO STA. 136+00

SCALE: 1"=50'

WATER LINE RELOCATION PROJECT FOR NORTHWEST HENRY UTILITY DISTRICT. CONTACT: DALE O'DANIEL 731-644-7911

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	NHE-54(26)	U5-10
		400003-2218-14	

HENRY COUNTY

REV. 06-22-12: REVISED TOPO TRACTS 115 & 119; ADDED DRIVE TRACT 115 & ADJUSTED CONST. ESMT.; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV. 08-10-12: REVISED TOPO & CONST. ESMT. TRACT 119; REVISED DRAIN. ESMT. TRACT 109

REV. 11-05-12: ADDED SURVEY TO TRACTS 105 & 107

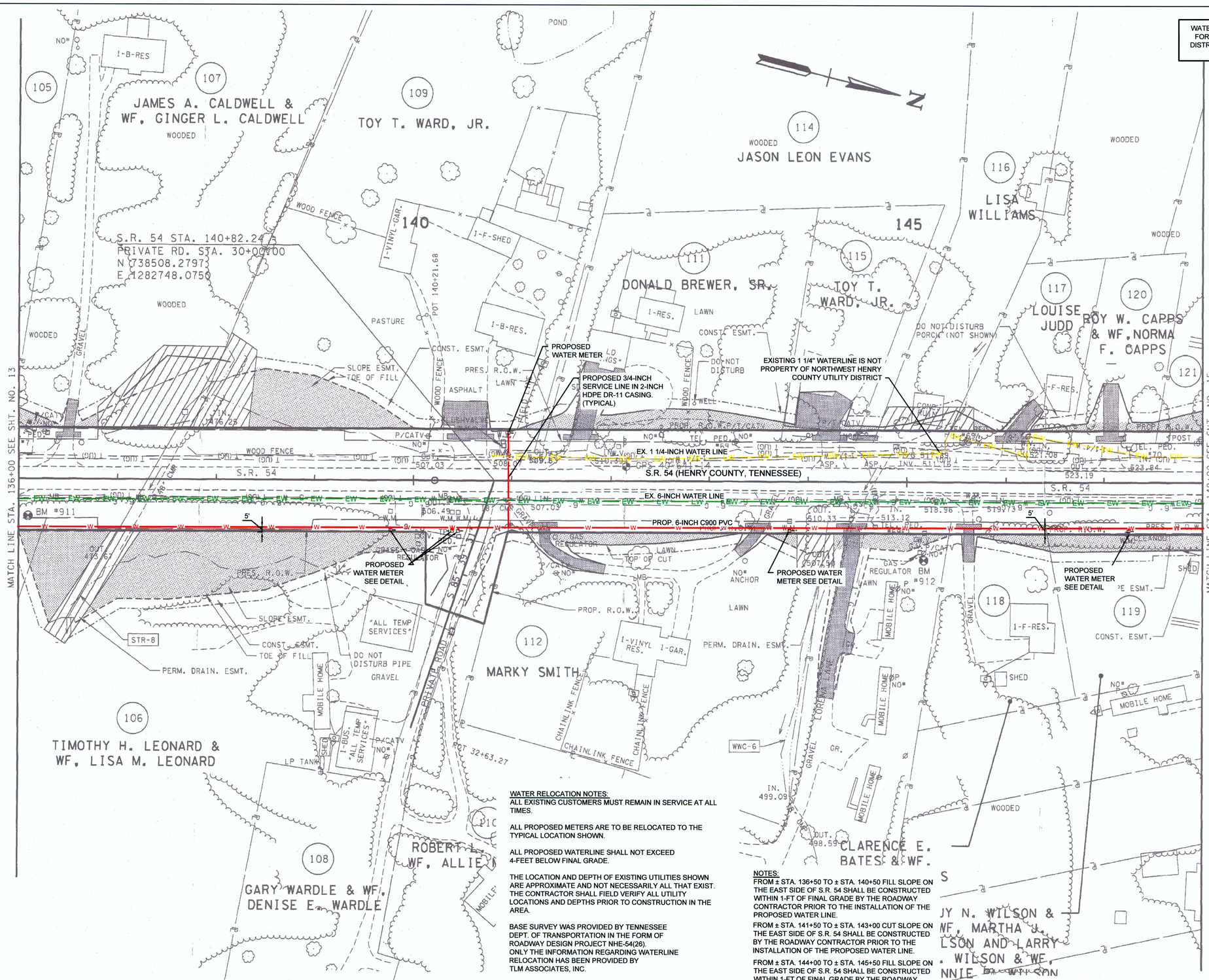
REV. 07-08-13: REVISED DRIVE TRACT 111

REV. 07-19-13: REVISED CONST. ESMT. TRACT 111 & ADDED NOTE "DO NOT DISTURB WELL"

REV. 09-10-13: REVISED TOPO TRACTS 106, 109 & 117; REVISED SLOPE & CONST. ESMT. TRACTS 103 & 106

REV. 10-03-13: REVISED GAS LINE LOCATION

REV. 10-23-13: ADDED NOTE "DO NOT DISTURB PORCH (NOT SHOWN)" TO TRACT 117



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NOTES:

FROM ± STA. 136+50 TO ± STA. 140+50 FILL SLOPE ON THE EAST SIDE OF S.R. 54 SHALL BE CONSTRUCTED WITHIN 1-FT OF FINAL GRADE BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.

FROM ± STA. 141+50 TO ± STA. 143+00 CUT SLOPE ON THE EAST SIDE OF S.R. 54 SHALL BE CONSTRUCTED BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.

FROM ± STA. 144+00 TO ± STA. 145+50 FILL SLOPE ON THE EAST SIDE OF S.R. 54 SHALL BE CONSTRUCTED WITHIN 1-FT OF FINAL GRADE BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.

FROM ± STA. 146+00 TO ± STA. 149+50 CUT SLOPE ON THE EAST SIDE OF S.R. 54 SHALL BE CONSTRUCTED BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.

EW — EW	WATER TO REMAIN
EW — EW	WATER TO BE RETIRED IN PLACE
W	PROPOSED WATER

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Web Site:
www.tlmassociates.com

ROBERT J. SAFFI
AGRICULTURE
COMMISSION
NO. 109797
STATE OF TENNESSEE

NWHUD – WATER LAYOUT

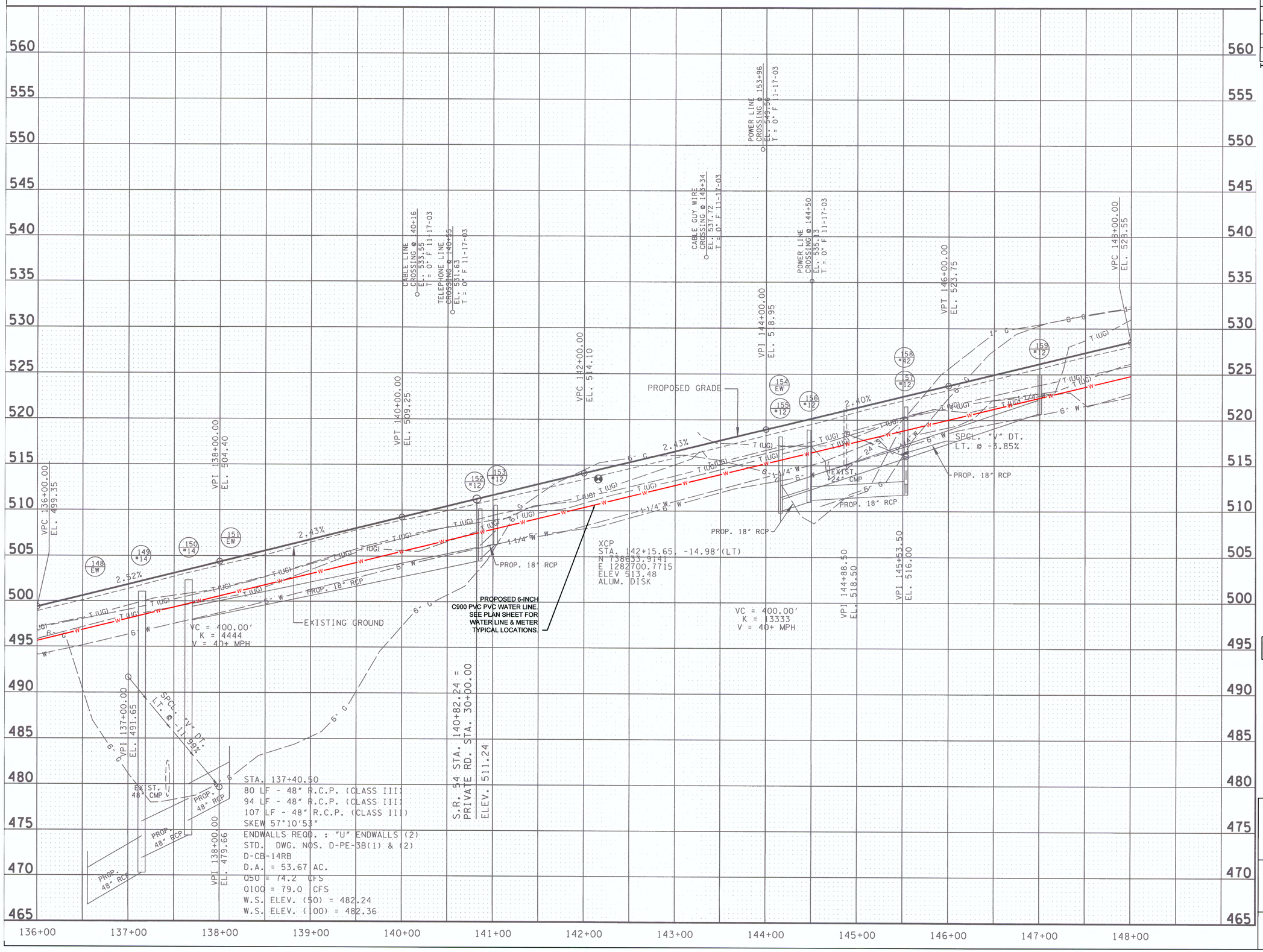
WATER RELOCATION

STA. 136+00 TO STA. 148+00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	NHE-54(26)	U5-11
		400003-2218-14	

HENRY COUNTY



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W PROPOSED WATER

ROBERT J. SAFAY
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 107751
STATE OF TENNESSEE

NWHUD – WATER PROFILE

WATER RELOCATION

STA. 136+00 TO STA. 148+00

SCALE: 1"=50'

WATER LINE RELOCATION PROJECT FOR NORTHWEST HENRY UTILITY DISTRICT. CONTACT: DALE O'DANIEL 731-644-7911

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	NHE-54(26)	U5-12
		400003-2218-14	

HENRY COUNTY

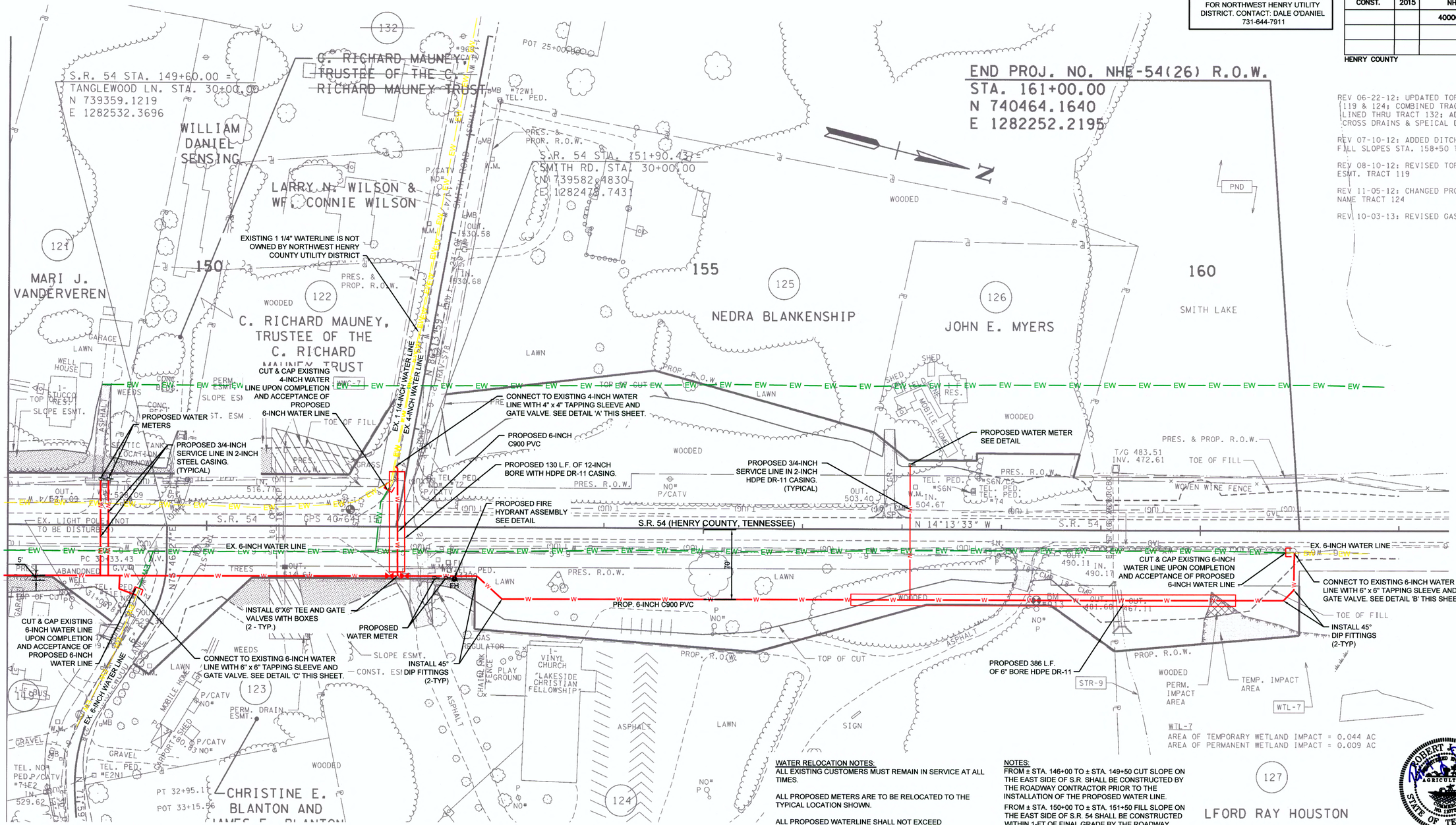
REV 06-22-12: UPDATED TOPO TRACTS 119 & 124; COMBINED TRACTS 122 & 132, LINED THRU TRACT 132; ADDED PROP. CROSS DRAINS & SPEICAL DITCHES

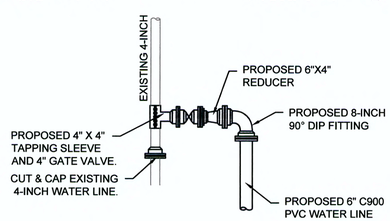
REV 07-10-12: ADDED DITCH LT & REVISED FILL SLOPES STA. 158+50 TO 160+00

REV 08-10-12: REVISED TOPO & CONST. ESMT. TRACT 119

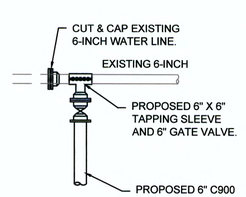
REV 11-05-12: CHANGED PROPERTY OWNER NAME TRACT 124

REV 10-03-13: REVISED GAS LINE LOCATION

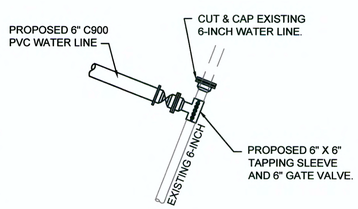




DETAIL 'A'
N.T.S.



DETAIL 'B'
N.T.S.



DETAIL 'C'
N.T.S.

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NOTES:
FROM ± STA. 146+00 TO ± STA. 149+50 CUT SLOPE ON THE EAST SIDE OF S.R. SHALL BE CONSTRUCTED BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.

FROM ± STA. 150+00 TO ± STA. 151+50 FILL SLOPE ON THE EAST SIDE OF S.R. 54 SHALL BE CONSTRUCTED WITHIN 1-FT OF FINAL GRADE BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.

FROM ± STA. 152+00 TO ± STA. 152+50 CUT SLOPE ON THE EAST SIDE OF S.R. 54 SHALL REQUIRE THE REMOVAL OF EXISTING WATER LINE TO ACHIEVE FINAL GRADE. THE UTILITY CONTRACTOR SHALL COORDINATE WITH THE ROADWAY CONTRACTOR AND INSTALL TEMPORARY WATER LINE AS NECESSARY TO MAINTAIN EXISTING WATER SERVICE.

FROM ± STA. 153+00 TO ± STA. 156+50 CUT SLOPE ON THE EAST SIDE OF S.R. 54 SHALL BE CONSTRUCTED BY THE ROADWAY CONTRACTOR PRIOR TO THE INSTALLATION OF THE PROPOSED WATER LINE.

— EW — EW —	WATER TO REMAIN
— EW — EW —	WATER TO BE RETIRED IN PLACE
— W —	PROPOSED WATER

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Fax No: (731) 988-9959
Web Site:
www.tlmassociates.com

ROBERT E. SWANN
AGRICULTURE
COMMISSIONER
NO. 18757
STATE OF TENNESSEE

NWHUD – WATER LAYOUT

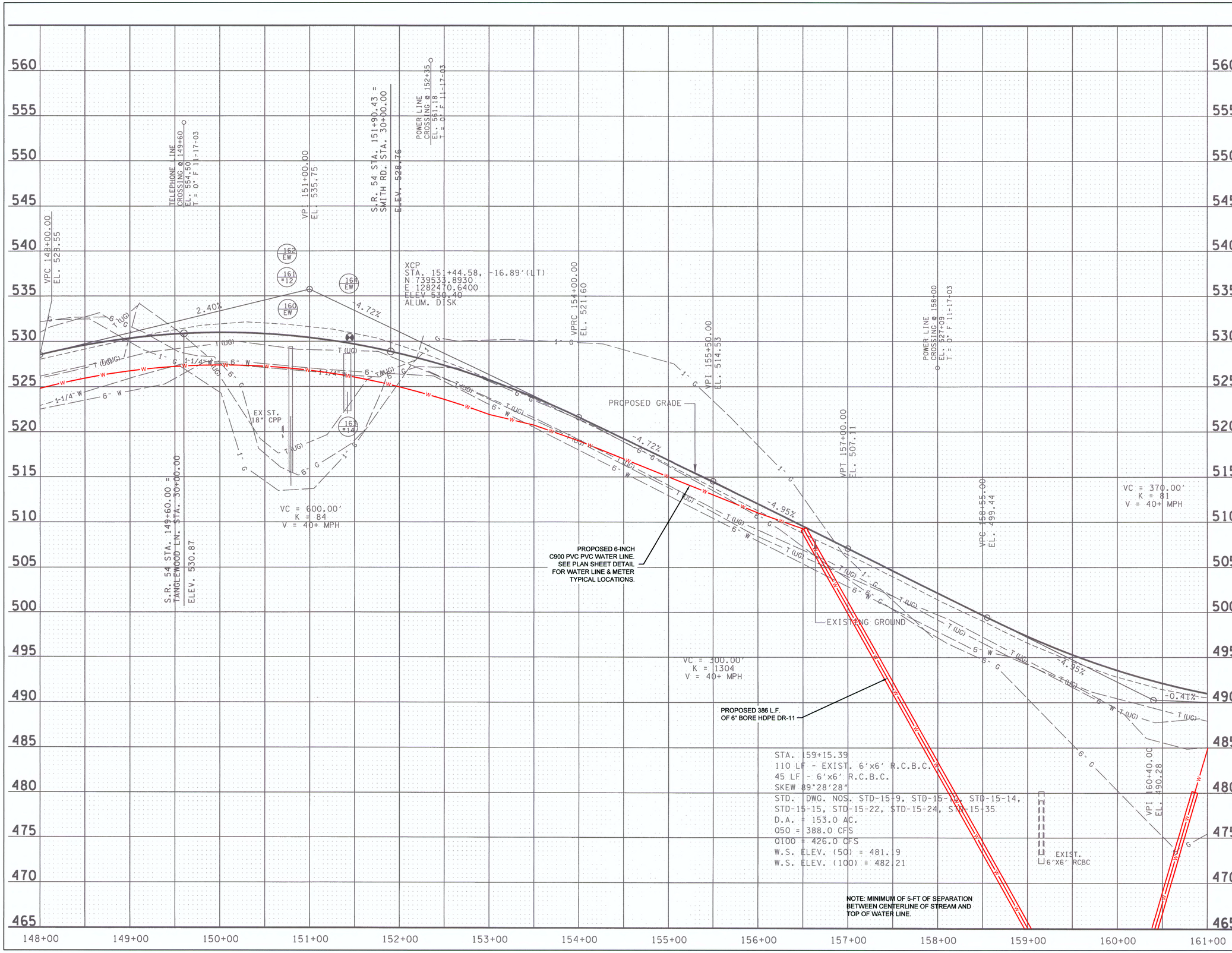
WATER RELOCATION

STA. 148+00 TO STA. END OF PROJECT

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	NHE-54(26)	U5-13
		400003-2218-14	

HENRY COUNTY



TLM
ARCHITECTS + ENGINEERS
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Web Site:
www.tlmassociates.com

W PROPOSED WATER

ROBERT J. SAPPINGTON
REGISTERED ENGINEER
AGRICULTURE
NO. 19791
STATE OF TENNESSEE
1-4-16

NWHUD – WATER PROFILE

WATER RELOCATION

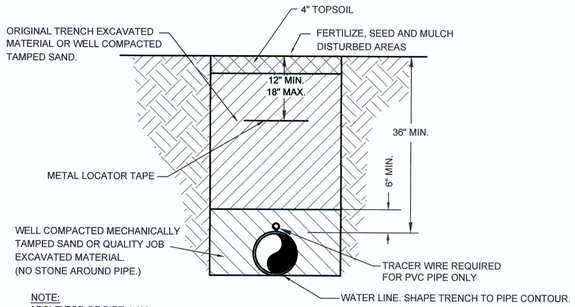
STA. 148+00 TO STA. END OF PROJECT

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	NHE-54(26)	U5-14
		400003-2218-14	

HENRY COUNTY

WATER LINE RELOCATION PROJECT FOR NORTHWEST HENRY UTILITY DISTRICT. CONTACT: DALE O'DANIEL 731-644-7911



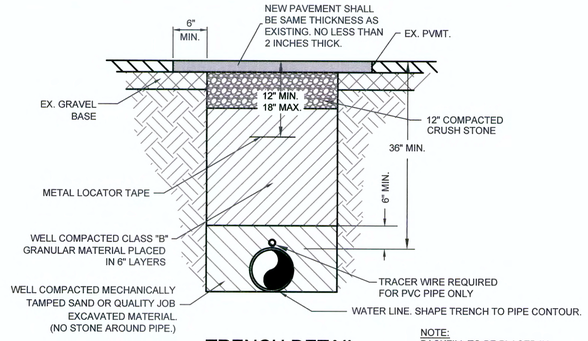
NOTE:
ABOVE TOP OF PIPE, LAY BACK TRENCH AS NECESSARY TO PROVIDE SAFE WORKING CONDITIONS.

NOTE:
BACKFILL TO BE PLACED IN 6" COMPACTED LAYERS.
CONTRACTOR SHALL CONNECT TRACER WIRE TO STEEL LINES OR BOXES WHERE APPLICABLE.

TRENCH DETAIL

UNIMPROVED AREAS

N.T.S.



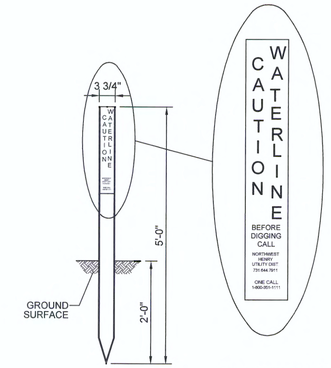
NOTE:
ABOVE TOP OF PIPE, LAY BACK TRENCH AS NECESSARY TO PROVIDE SAFE WORKING CONDITIONS.

NOTE:
BACKFILL TO BE PLACED IN 6" COMPACTED LAYERS.
CONTRACTOR SHALL CONNECT TRACER WIRE TO STEEL LINES OR BOXES WHERE APPLICABLE.

TRENCH DETAIL

EX. ASPHALT AREAS

N.T.S.



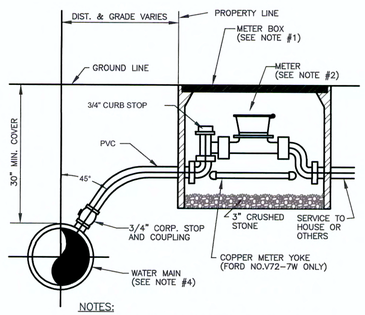
AS MFG. BY CARSONITE, GREENLINE OR EQUAL MARKERS SHALL BE BLUE

WATERLINE INFORMATION DECAL DETAIL SHALL BE APPLIED TO BOTH SIDES. DECALS SHALL BE BLUE WITH WHITE LETTERS. CHECK WITH NORTHWEST HENRY COUNTY UTILITY DISTRICT BEFORE ORDERING FOR EXACT INFORMATION DESIRED ON DECAL.

WATER LINE UTILITY MARKER DETAIL

N.T.S.

NOTE:
WATER LINE MARKERS ARE TO BE PLACED AT VALVE LOCATIONS AND A MINIMUM OF EVERY 2,000 LF.

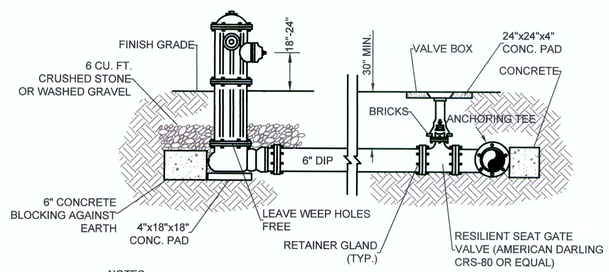


NOTES:

1. RECTANGULAR TYPE METER BOX-15" HIGH WITH COVER JOHN BOUCHARD AND CO. NO. 8132 OR CONCRETE METER BOX - 15" HIGH AS MANUFACTURED BY GODDARD CONCRETE PRODUCTS CO. OR APPROVED EQUAL.
2. METER SHALL BE BADGER (MODEL 25 OR EQUAL)
3. SERVICE LINE SHALL BE POLYETHYLENE ,PE 3408, SDR 9, 200 PSI WORKING PRESSURE.
4. USE TAPPING SADDLE ON PLASTIC MAINS.
5. SERVICE FROM MAIN TO METER SHALL BE PVC.

TYPICAL SERVICE CONNECTION

N.T.S.

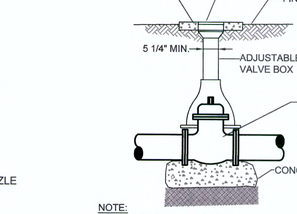


NOTES:

1. INSTALL HYDRANT PERENDICULAR TO GROUND LEVEL.
2. BACK F.H. WITH MIN. OF 6" CONCRETE BLKG. AGAINST UNDISTURBED EARTH.
3. BRACE TEE WITH POURED CONCRETE. LEAVE ALL JOINTS FREE.
4. CLOW F-1217 ANCHORING TEE WITH INTGL ROTO-RING FOLLOWER GLAND OR EQUAL.
5. INSTALL F.H. WITH C.L. NOZZEL 18"-24" ABOVE FINISH GRADE OR TOP OF CURB.
6. SET F.H. WITH 6" CLEARANCE BETWEEN NOZZLE & BACK OF CURB UNLESS OTHERWISE NOTED.
7. F.H. TO BE M & H MODEL NO. 129 OR EQUAL, ($5\frac{1}{4}$")

FIRE HYDRANT ASSEMBLY

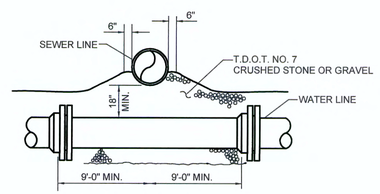
N-T-S



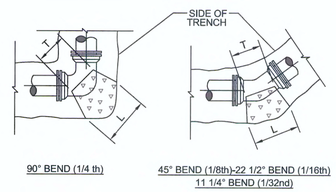
NOTE:
VALVE BOX SHALL NOT BEAR ON PIPE ALL VALVES SHALL BE RESILIENT SEAT TYPE.

GATE VALVE & BOX

N.T.S.

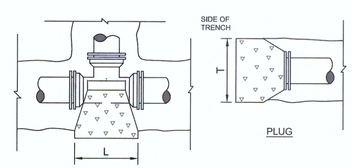


WATER LINE CROSSING UNDER SEWER



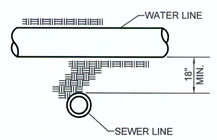
90° BEND (1/4 th)

45° BEND (1/8th)-22 1/2° BEND (1/16th)
11 1/4° BEND (1/32nd)

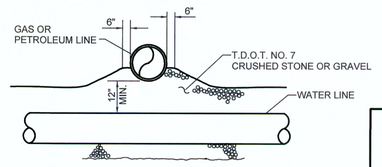


TEE

PLUG



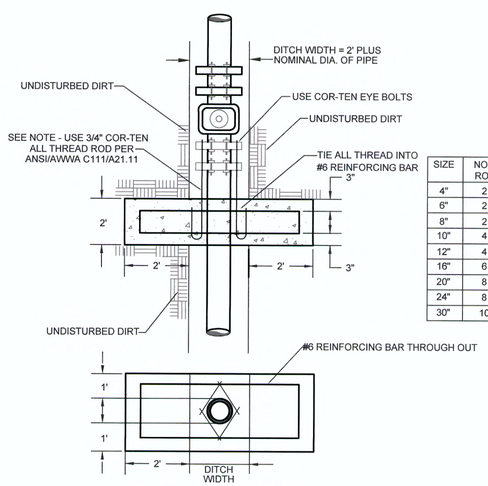
WATER LINE CROSSING OVER SEWER



WATER LINE CROSSING UNDER TELEPHONE OR GAS TRANSMISSION LINE

TYPICAL PIPE CROSSINGS

NOT TO SCALE



SIZE	NO. OF RODS
4"	2
6"	2
8"	2
10"	4
12"	4
16"	6
20"	8
24"	8
30"	10

DEADMAN BLOCKING DETAIL

N.T.S.

NOTE:

1. DEPTH "D" MAY BE GREATER THAN SPECIFIED TO ALLOW WORKING SPACE. PIER MUST BE AGAINST UNDISTURBED EARTH.
2. CONTRACTOR MAY USE APPROVED RESTRAINED JOINTS IN LIEU OF THRUST BLOCKING.

90° BEND (1/4 th)

SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"
D	NO BLOCKING REQ'D.		4"	8"	10"	12"	12"	12"	12"
L			8"	24"	27"	30"	34"	42"	48"
W			8"	12"	16"	20"	24"	28"	28"
T			4"	16"	18"	20"	22"	30"	36"

45° BEND (1/8th)-22 1/2° BEND (1/16th)

SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"
D	NO BLOCKING REQ'D.		4"	6"	6"	6"	8"	8"	6"
L			8"	18"	20"	22"	24"	30"	34"
W			8"	12"	14"	16"	18"	20"	22"
T			4"	16"	16"	18"	18"	24"	28"

11 1/4° BEND (1/32nd)

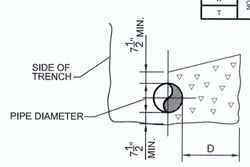
SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"
D	NO BLOCKING REQ'D.		4"	6"	6"	6"	6"	6"	6"
L			8"	14"	16"	18"	20"	24"	30"
W			8"	12"	14"	16"	18"	20"	22"
T			4"	14"	14"	16"	16"	20"	26"

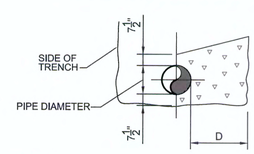
TEE

SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"
D	NO BLOCKING REQ'D.		4"	8"	10"	12"	12"	12"	12"
L			8"	18"	18"	22"	27"	28"	28"
W			8"	12"	16"	20"	24"	26"	28"
T			6"	12"	12"	16"	18"	20"	20"

PLUG

SIZE	2"	3"	4"	6"	8"	10"	12"	14"	16"
D	NO BLOCKING REQ'D.		8"	18"	24"	30"	30"	30"	30"
L			12"	18"	24"	30"	30"	40"	48"
W			12"	18"	18"	24"	24"	28"	30"
T			4"	12"	12"	12"	12"	12"	12"





CONCRETE BLOCKING DETAILS

N.T.S.

ROBERT J. SAFFLE
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ARCHITECTURE
COMMERCE
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NWHUD – WATER DETAILS

WATER RELOCATION

STA. _____ TO STA. _____

SCALE: 1"=50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2013	NHE-54(26)	U-1

REV. 09-11-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 06-26-13 AND 07-22-13.

REV. 10-18-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 9-10-13 AND 10-03-13.

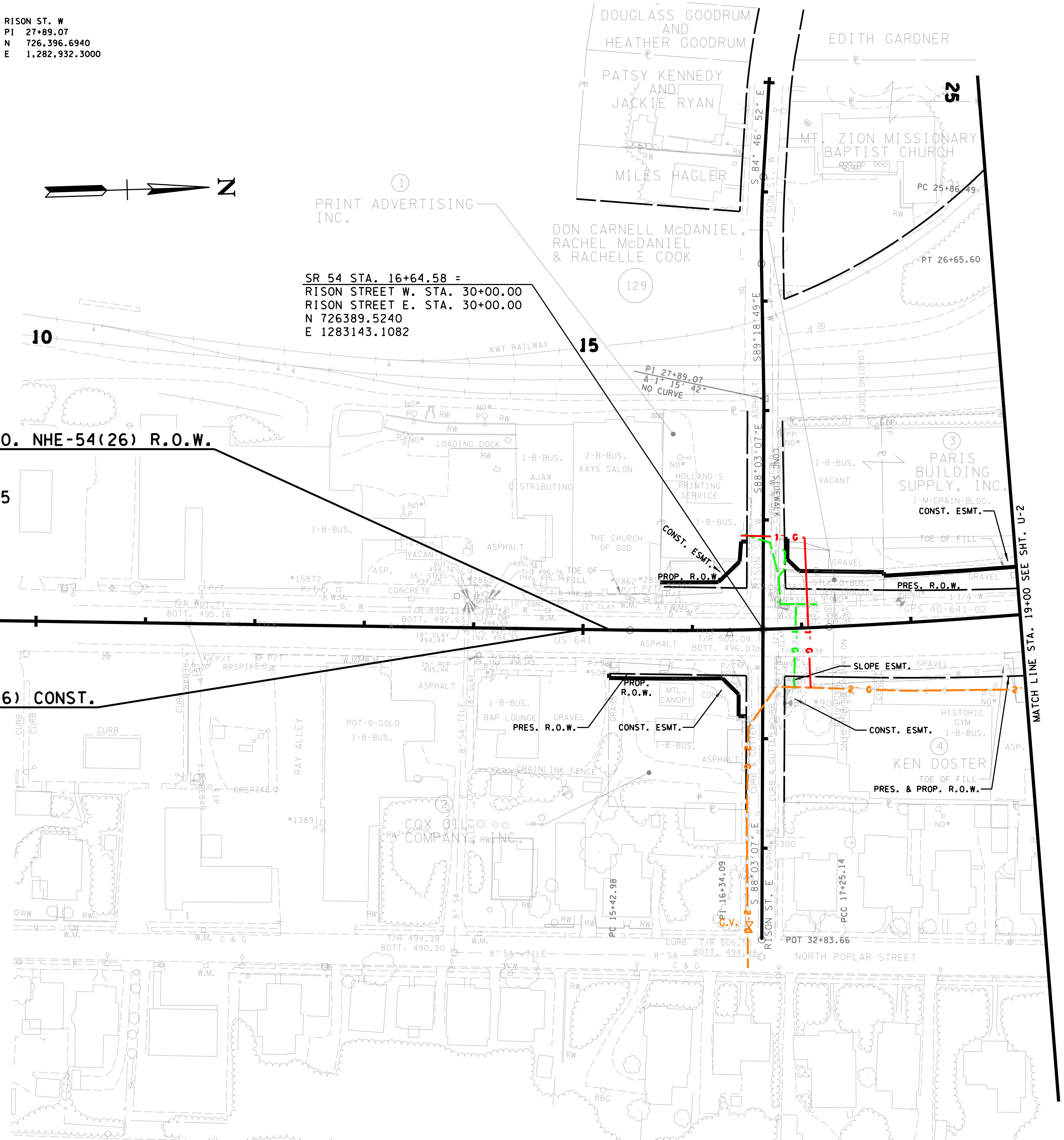
RISON ST. W
PI 26+26.07
N 726,398.6469
E 1,282,769.2665
Δ 4° 31′ 57″ (LT)
D 5° 43′ 46″
R 1,000.00
L 79.11
T 39.57

RISON ST. W
PI 27+89.07
N 726,396.6940
E 1,282,932.3000

BEGIN PROJ. NO. NHE-54(26) R.O.W.
STA. 15+24.51
N 726249.5207
E 1283139.3615

BEGIN PROJ. NO. NHE-54(26) CONST.
STA. 15+00.00
N 726225.0357
E 1283138.2555

PROPOSED S.R. 54
PI 16+34.09
N 726,358.9898
E 1,283,144.3061
Δ 3° 38′ 07″ (LT)
D 1° 59′ 44″
R 2,871.25
L 182.17
T 91.12
SE 0.022 FT/FT
DESIGN SPEED 40 MPH
TRANS. LENGTH 160′



LEGEND

PROPOSED
REMAIN
ABANDON OR REMOVE
TEMPORARY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY LAYOUT

BEGIN PROJECT TO STA. 19+00

SCALE: 1″= 50′

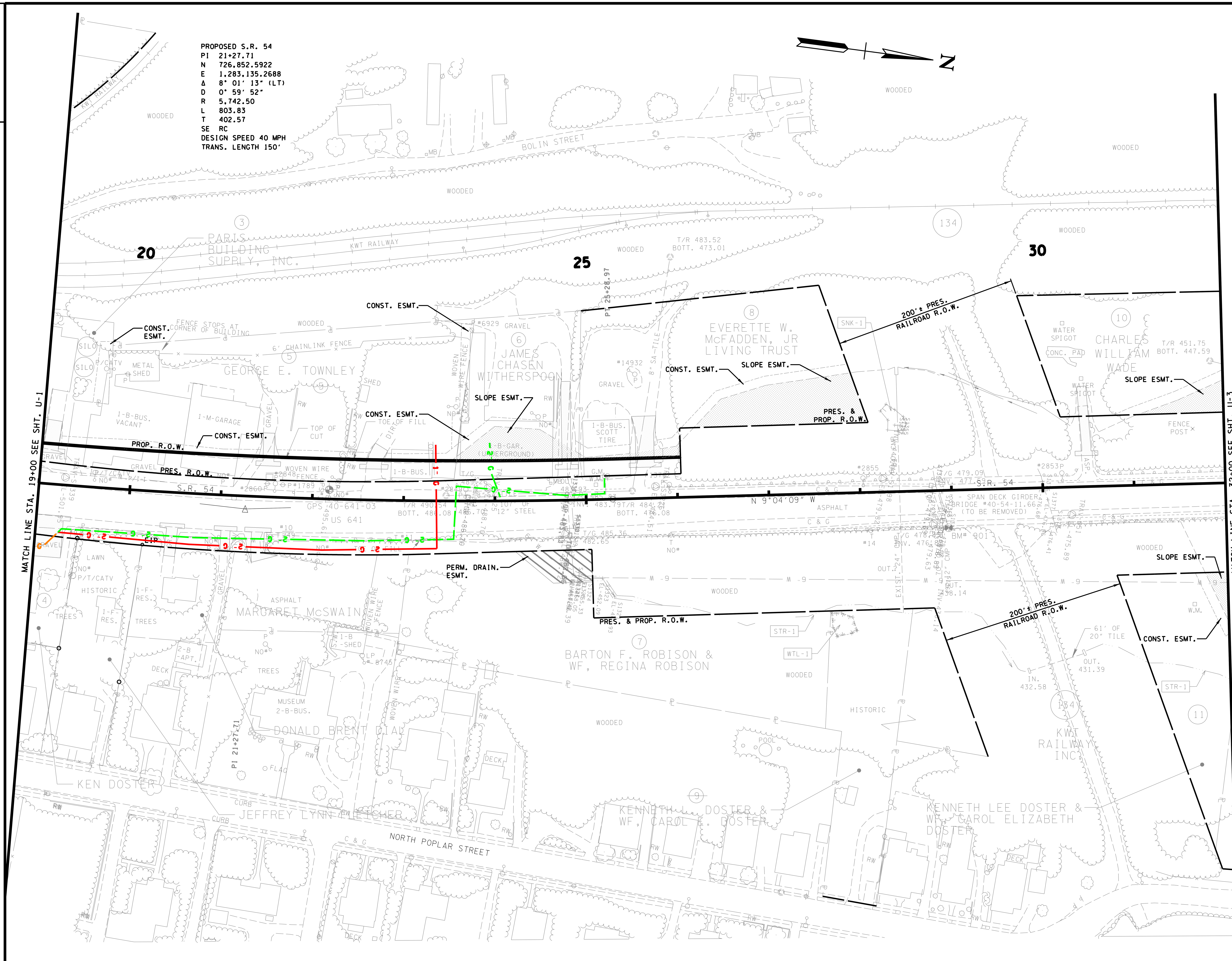
$$$$SYTIME$$$$$$
$$$$DGNSPEC$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2013	NHE-54(26)	U-2

REV. 10-18-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 9-10-13 AND 10-03-13.

REV. 11-25-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 10-23-13.



LEGEND

PROPOSED	red
REMAIN	orange
ABANDON OR REMOVE	green
TEMPORARY	cyan

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY LAYOUT

STA. 19+00 TO STA. 32+00

SCALE: 1″= 50′

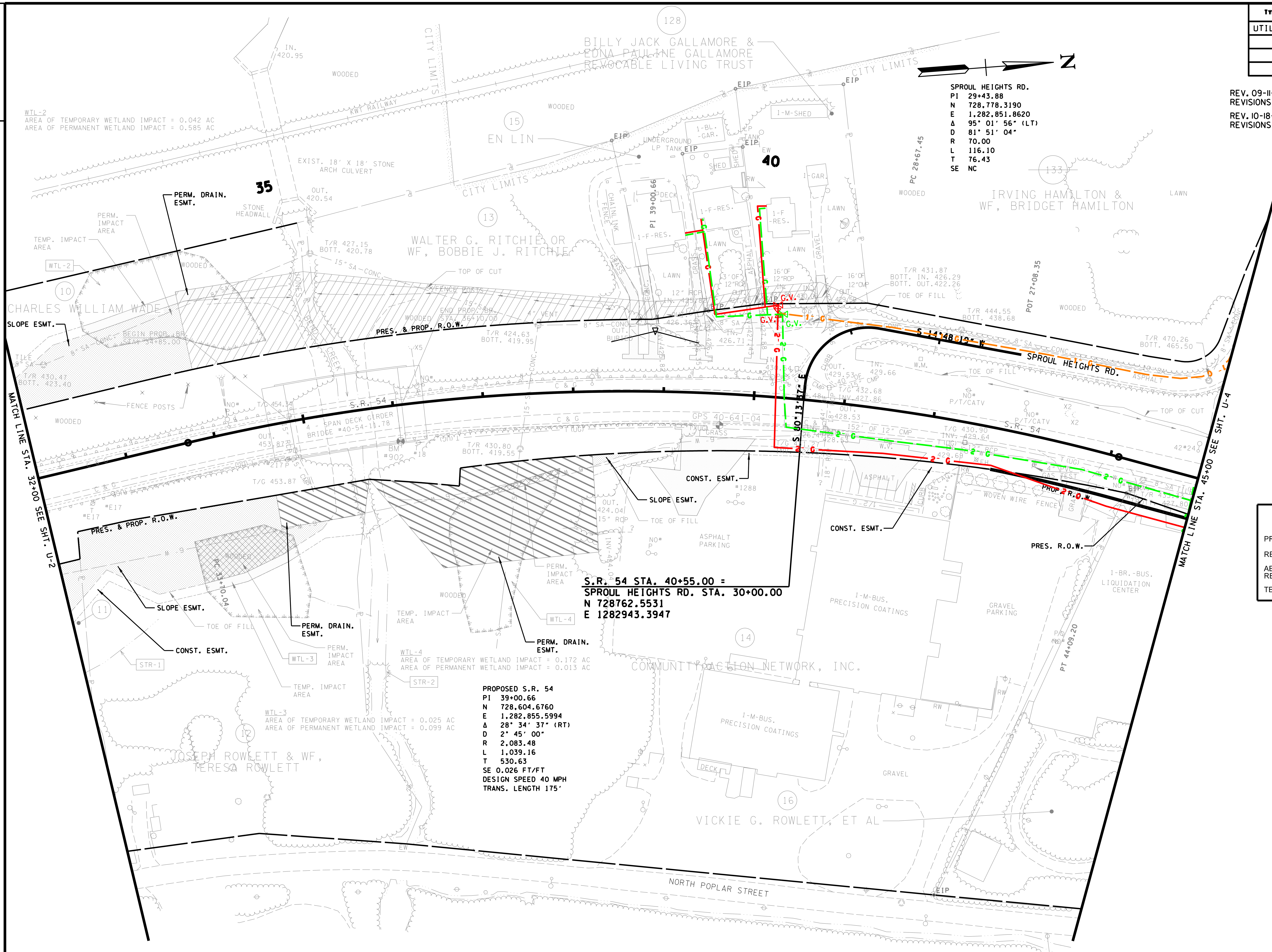
$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2013	NHE-54(26)	U-3

REV. 09-11-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 06-26-13 AND 07-22-13.

REV. 10-18-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 9-10-13 AND 10-03-13.

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



LEGEND

PROPOSED	red line
REMAIN	orange line
ABANDON OR REMOVE	green line
TEMPORARY	cyan line

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY LAYOUT

STA. 32+00 TO STA. 45+00

SCALE: 1″= 50′

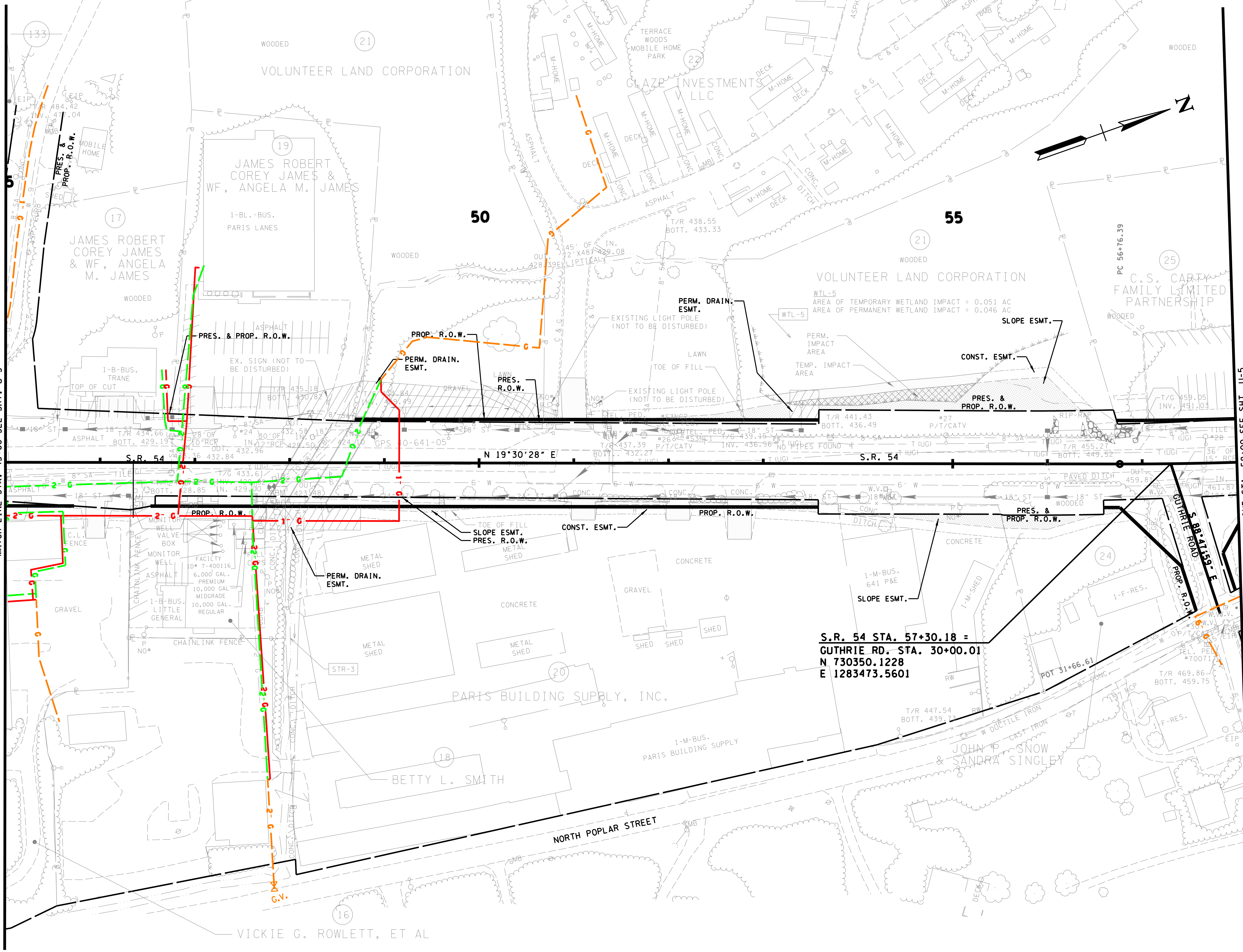
$$$$SYTIME$$$$$$
$$$$DGNSPEC$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2013	NHE-54(26)	U-4

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

REV. 09-11-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 06-26-13 AND 07-22-13.

REV. 10-18-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 9-10-13 AND 10-03-13.



LEGEND

- PROPOSED
- REMAIN
- ABANDON OR REMOVE
- TEMPORARY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY LAYOUT

STA. 45+00 TO STA. 58+00

SCALE: 1"= 50'

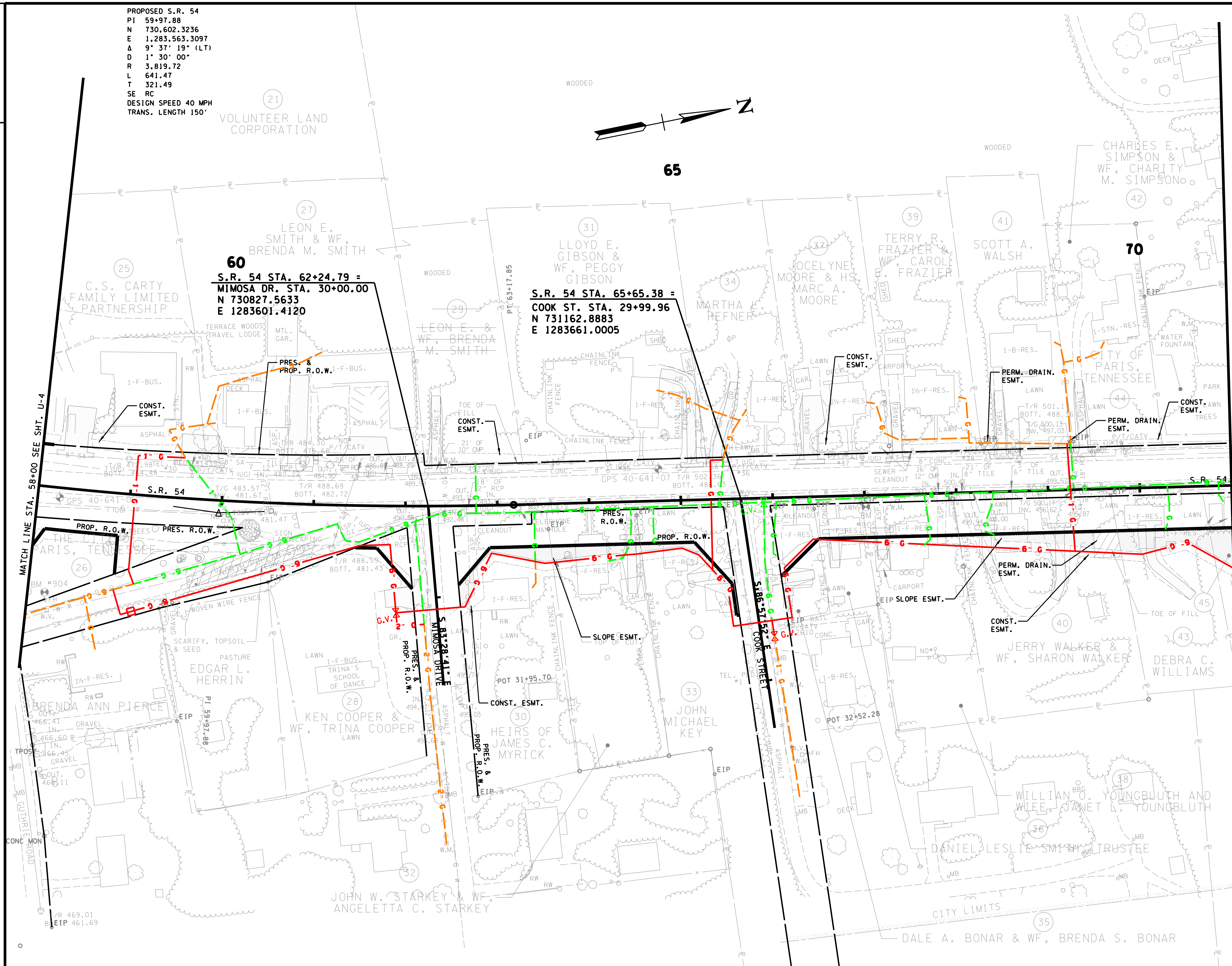
$$$$SYTIME$$$$$$
$$$$DGNSPEC$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2013	NHE-54(26)	U-5

REV. 09-11-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 06-26-13 AND 07-22-13.

REV. 10-18-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 9-10-13 AND 10-03-13.



LEGEND

PROPOSED	red line
REMAIN	orange line
ABANDON OR REMOVE	green line
TEMPORARY	cyan line

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY LAYOUT

STA. 58+00 TO STA. 71+00

SCALE: 1″= 50′

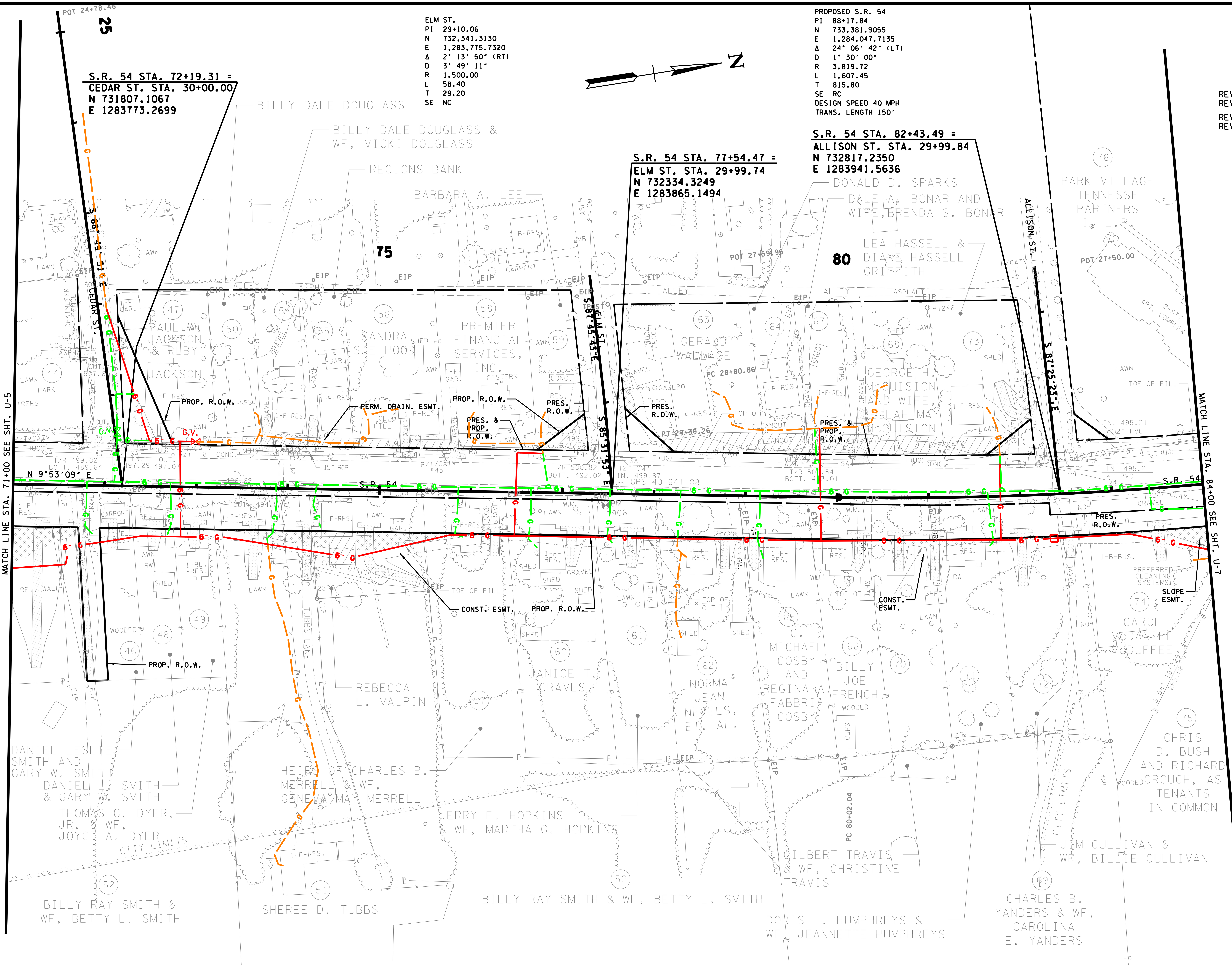
$$$$SYTIME$$$$$$
$$$DGNSPEC$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2013	NHE-54(26)	U-6

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

REV. 09-11-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 06-26-13 AND 07-22-13.

REV. 10-18-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 9-10-13 AND 10-03-13.



LEGEND

- PROPOSED (red line)
- REMAIN (orange line)
- ABANDON OR REMOVE (green line)
- TEMPORARY (cyan line)

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY LAYOUT

STA. 71+00 TO STA. 84+00

SCALE: 1″= 50′

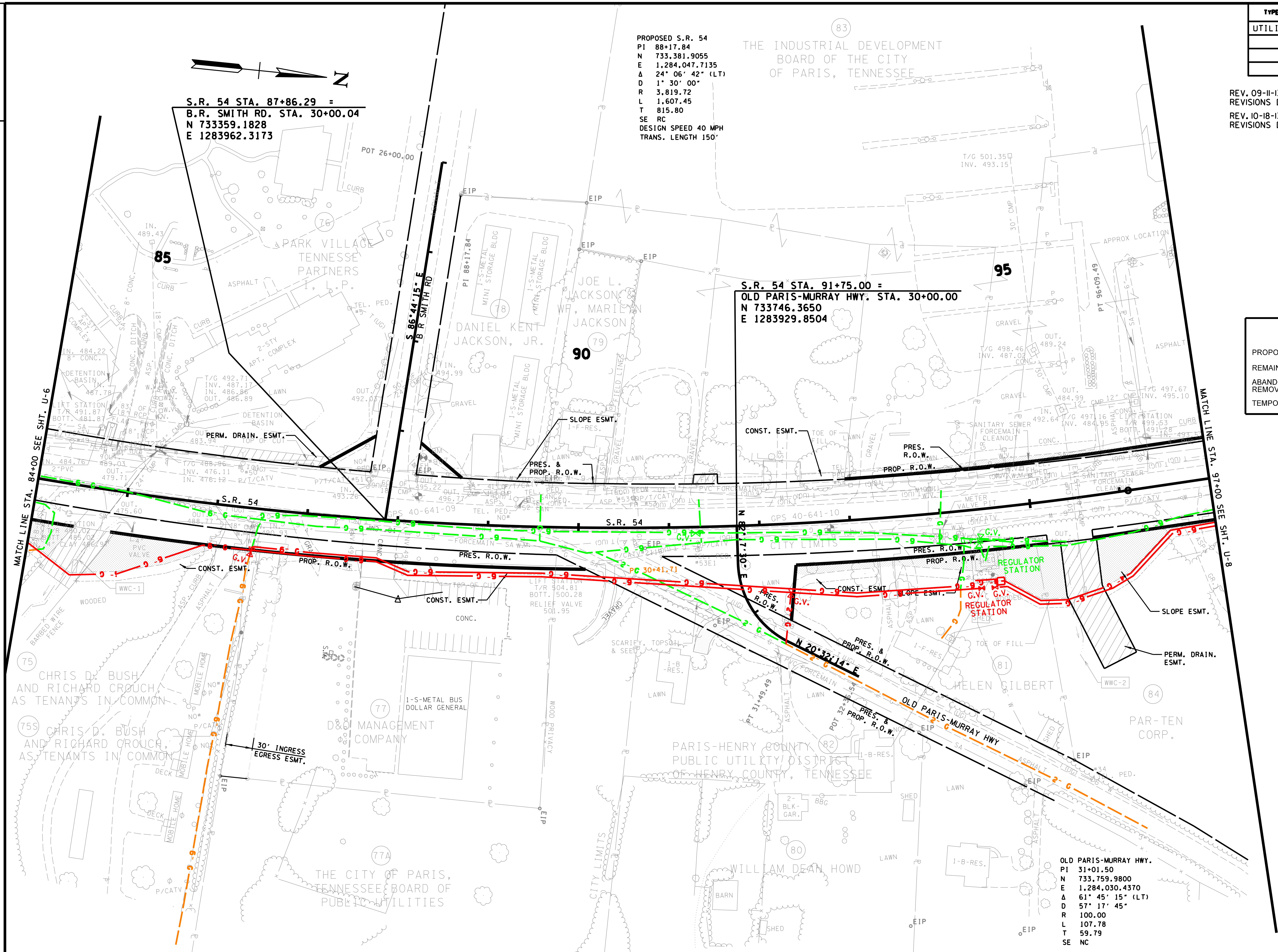
$$$$SYTIME$$$$$
$$$$DGNSPEC$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2013	NHE-54(26)	U-7

REV. 09-11-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 06-26-13 AND 07-22-13.

REV. 10-18-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 9-10-13 AND 10-03-13.



LEGEND

PROPOSED	red line
REMAIN	orange line
ABANDON OR REMOVE	green line
TEMPORARY	cyan line

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

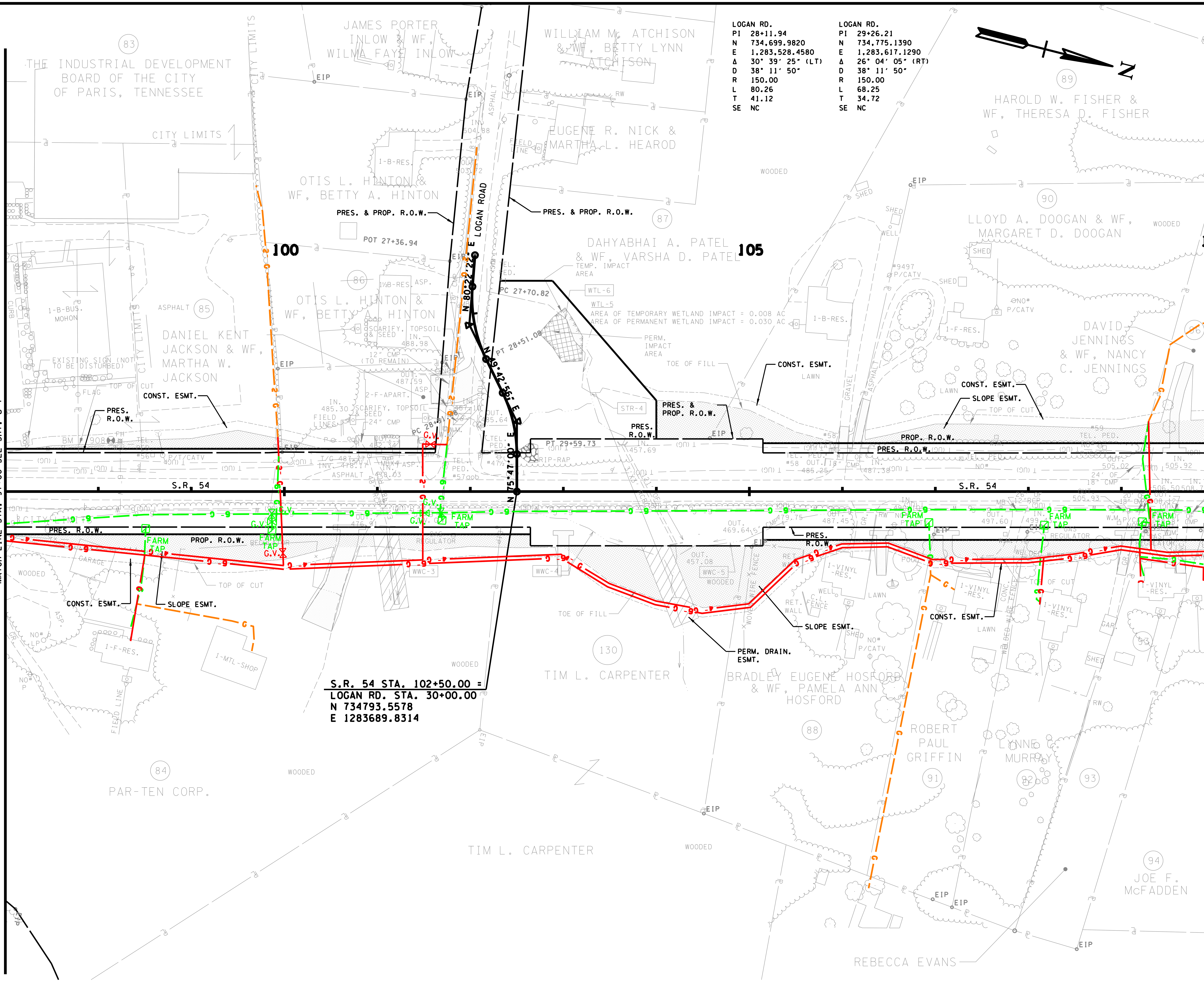
UTILITY LAYOUT

STA. 84+00 TO STA. 97+00

SCALE: 1″= 50′

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

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



TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2013	NHE-54(26)	U-8

REV. 09-11-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 06-26-13 AND 07-22-13.

REV. 10-18-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 9-10-13 AND 10-03-13.

LEGEND

- PROPOSED
- REMAIN
- ABANDON OR REMOVE
- TEMPORARY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY LAYOUT

STA. 97+00 TO STA. 110+00

SCALE: 1″= 50′

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

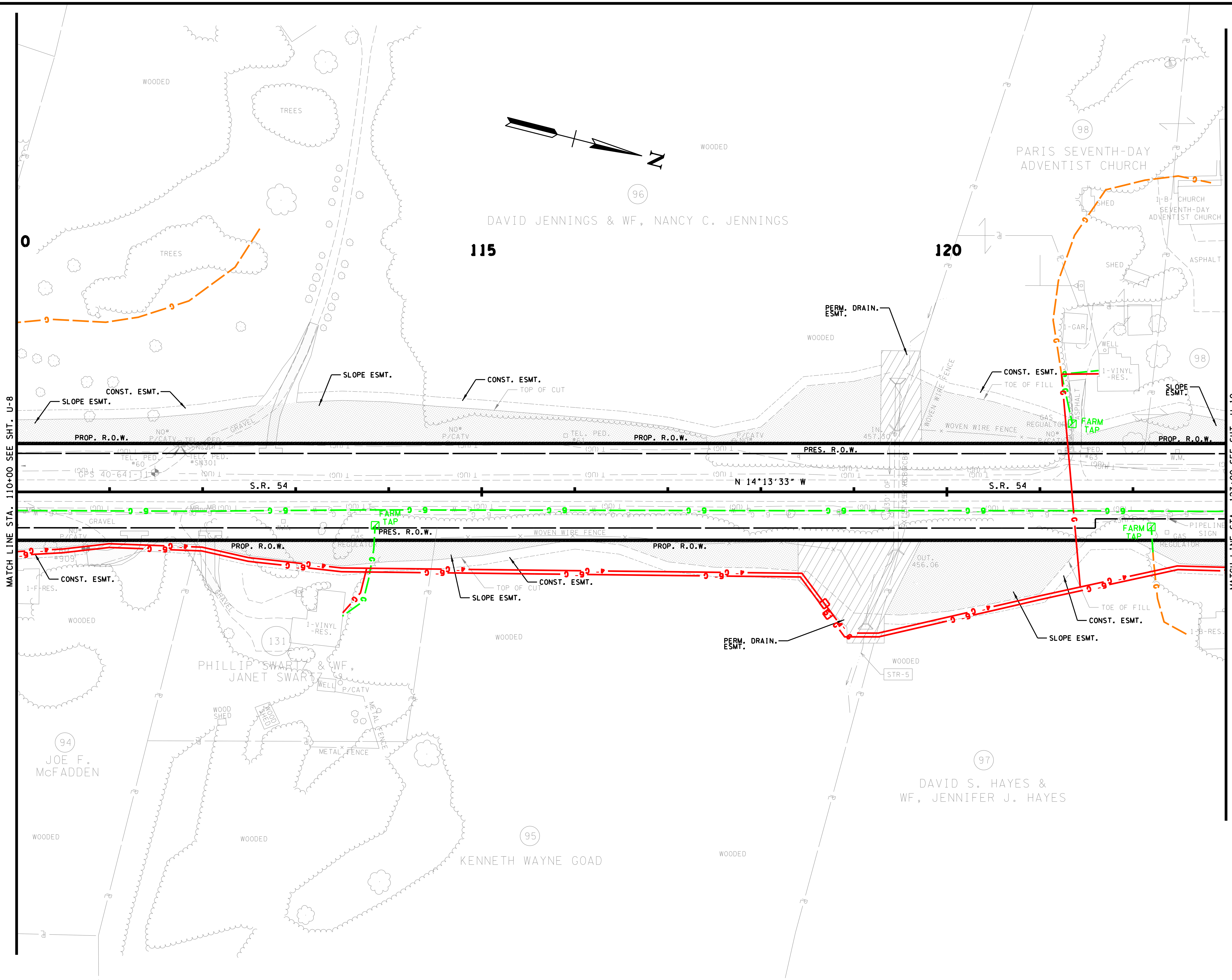
TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2013	NHE-54(26)	U-9

REV. 10-18-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 9-10-13 AND 10-03-13.

REV. 11-25-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 10-23-13.



LEGEND

PROPOSED	red line
REMAIN	orange line
ABANDON OR REMOVE	green line
TEMPORARY	cyan line

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY LAYOUT

STA. 110+00 TO STA. 123+00

SCALE: 1"= 50'

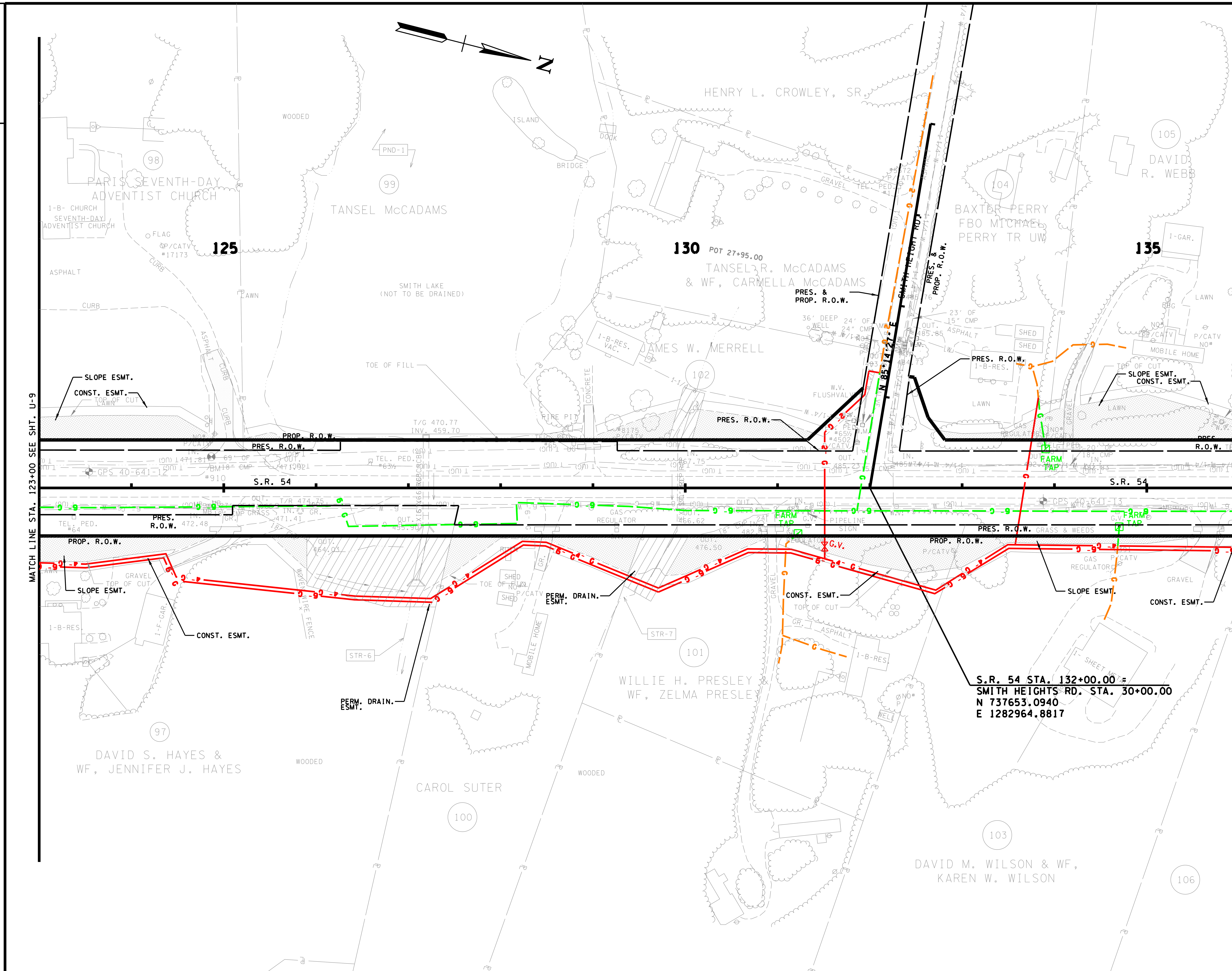
$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2013	NHE-54(26)	U-10

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

REV. 09-11-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 06-26-13 AND 07-22-13.

REV. 10-18-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 9-10-13 AND 10-03-13.



LEGEND

PROPOSED	red line
REMAIN	orange line
ABANDON OR REMOVE	green line
TEMPORARY	cyan line

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY LAYOUT

STA. 123+00 TO STA. 136+00

SCALE: 1"= 50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$

TENNESSEE D.O.T.
DESIGN DIVISION

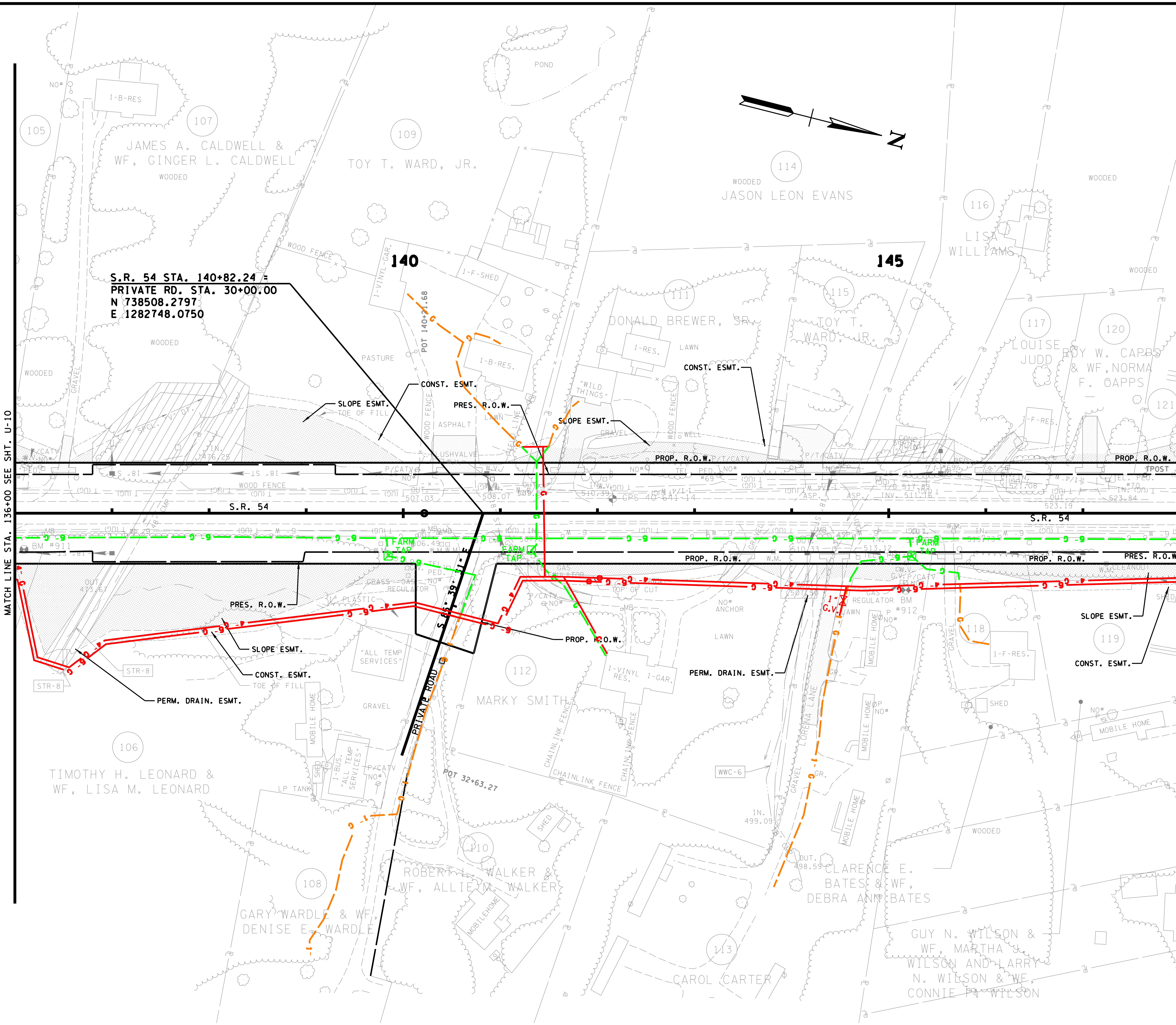
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2013	NHE-54(26)	U-11

REV. 09-11-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 06-26-13 AND 07-22-13.

REV. 10-18-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 9-10-13 AND 10-03-13.

REV. 11-25-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 10-23-13.



LEGEND

PROPOSED	(red line)
REMAIN	(orange line)
ABANDON OR REMOVE	(green line)
TEMPORARY	(cyan line)

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY LAYOUT

STA. 136+00 TO STA. 148+00

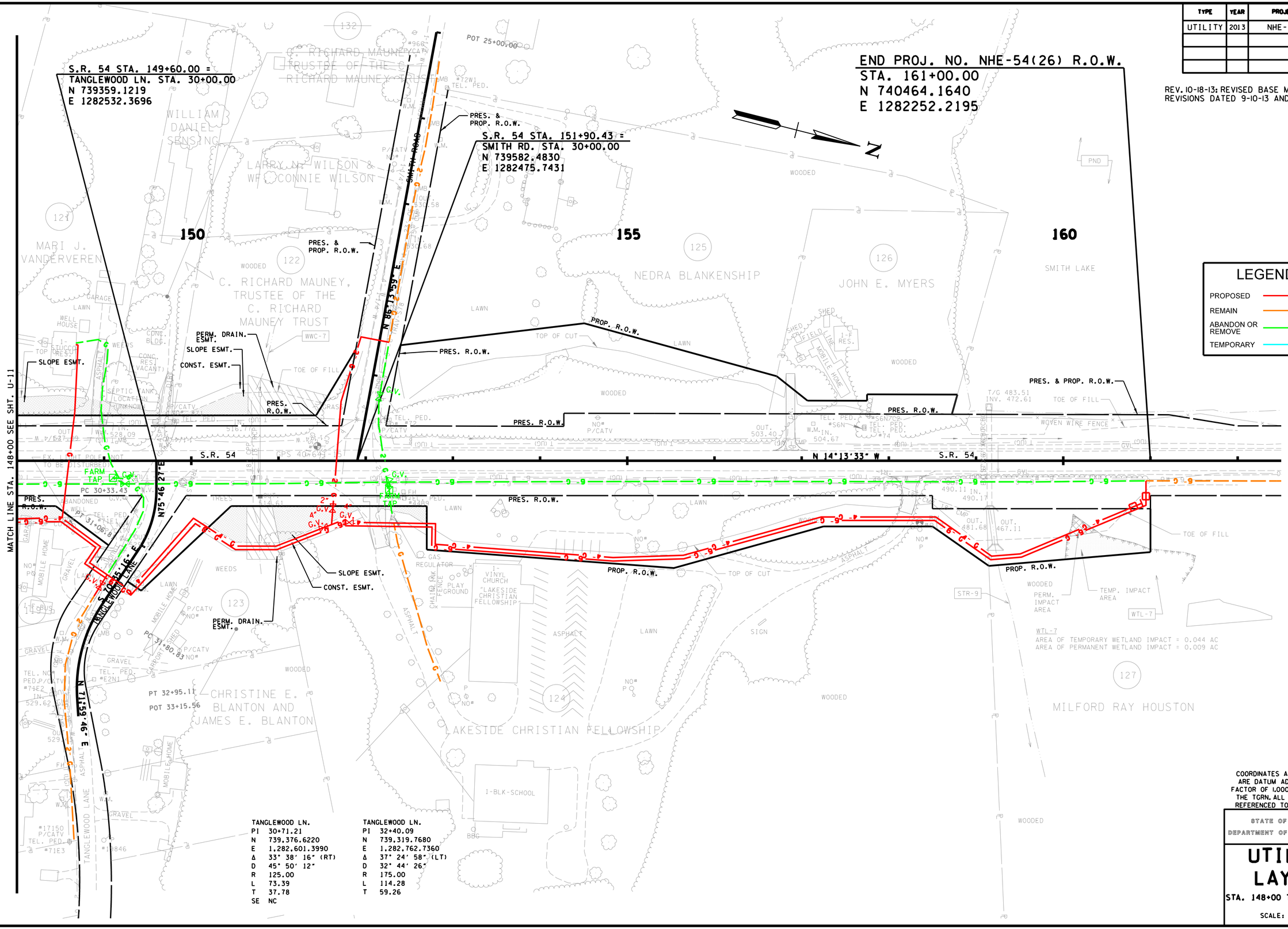
SCALE: 1"= 50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2013	NHE-54(26)	U-12

REV. 10-18-13: REVISED BASE MAPS PER TDOT REVISIONS DATED 9-10-13 AND 10-03-13.



TANGLEWOOD LN.	
PI	30+71.21
N	739,376.6220
E	1,282,601.3990
Δ	33° 38' 16" (RT)
D	45° 50' 12"
R	125.00
L	73.39
T	37.78
SE	NC

TANGLEWOOD LN.	
PI	32+40.09
N	739,319.7680
E	1,282,762.7360
Δ	37° 24' 58" (LT)
D	32° 44' 26"
R	175.00
L	114.28
T	59.26

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY LAYOUT

STA. 148+00 TO END PROJECT

SCALE: 1" = 50'

$$SYTIME$$
$$DGNSPEC$$

TYPE	YEAR	PROJECT NO.	SHEET NO.
UTILITY	2013	NHE-54(26)	U-13

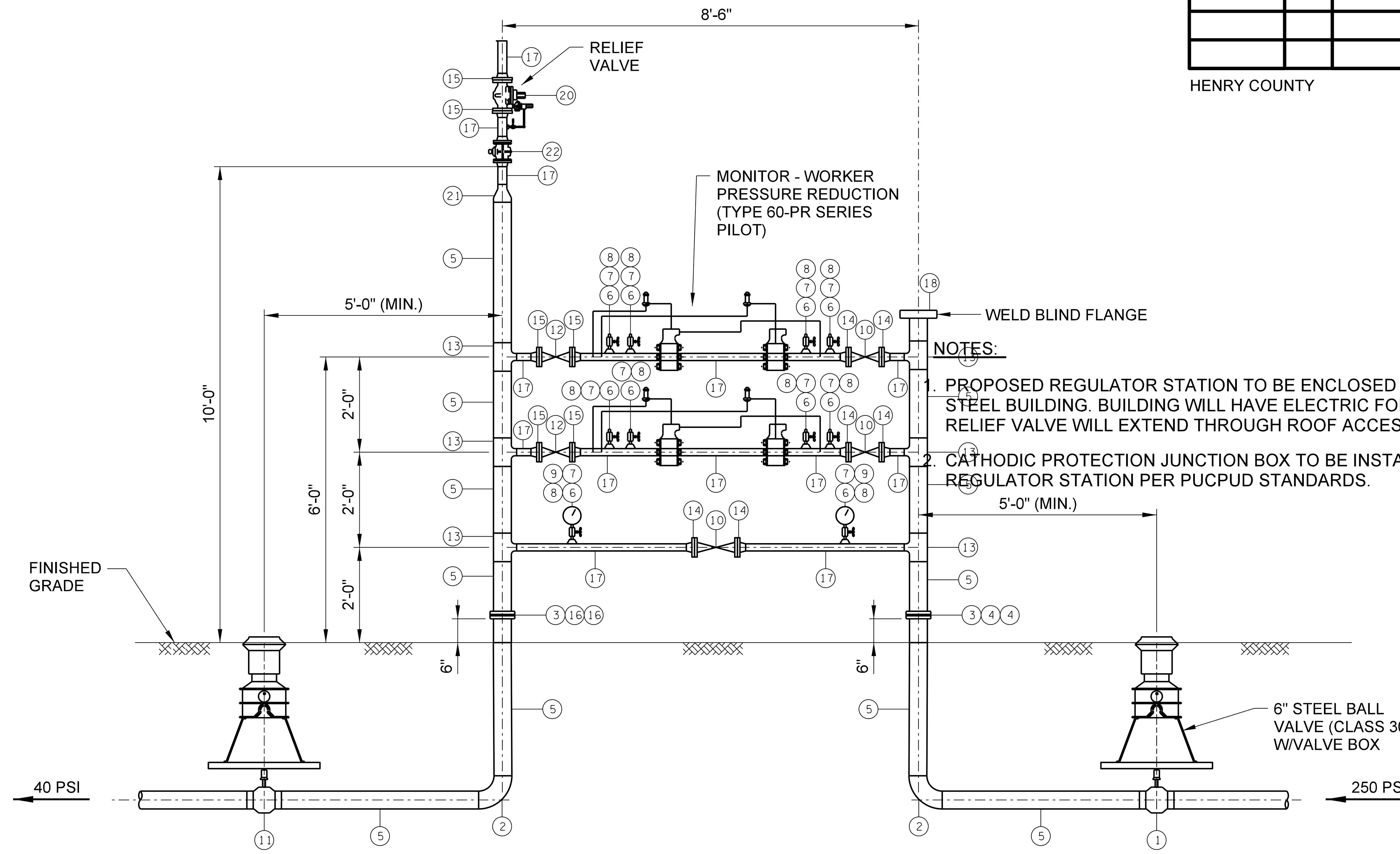
HENRY COUNTY

INSTALLATION MATERIAL

ITEM NO.	QUANTITY	DESCRIPTION
1	1 EA	VALVE, 6" CAMERON TYPE 31 WELD BODY BALL, FULL PORT, WXW, CLASS 300, STEEL BODY (OR EQUAL)
2	2 EA	ELBOW, 6", 90 DEGREE, 0.280" W.T., WELD (SCHEDULE 40)
3	2 EA	INSULATING KIT
4	2 EA	RFWN, 6", ANSI 300
5	X	PIPE, 6.625" O.D. X 0.280" W.T., GRADE X-42, API-5L (SCHEDULE 40)
6	10 EA	THREADOLET, 1/2" NPT THREADED
7	10 EA	NIPPLE, 1/2"X2" LONG, EXTRA HEAVY (SCHEDULE 40)
8	10 EA	VALVE, 1/2" KEROTEST INSTRUMENT VALVE, THREADED (OR EQUAL)
9	2 EA	GAGE, PRESSURE, 1/2" FPT BOTTOM CONN. PLAIN CASE, 4 1/2" WHITE FACE DIAL, RANGE 0-500 PSI, STEM MOUNTED
10	3 EA	VALVE, 2" CAMERON TYPE 31 WELD BODY BALL, FULL PORT, FXF, CLASS 300, STEEL BODY (OR EQUAL)
11	1 EA	VALVE, 6" CAMERON TYPE 31 WELD BODY BALL, FULL PORT, WXW, CLASS 150, STEEL BODY (OR EQUAL)
12	2 EA	VALVE, 2" CAMERON TYPE 31 WELD BODY BALL, FULL PORT, FXF, CLASS 150, STEEL BODY (OR EQUAL)
13	6 EA	TEE, 6"X2", WELD (SCHEDULE 40)
14	6 EA	RFWN, 2", ANSI 300
15	6 EA	RFWN, 2", ANSI 150
16	2 EA	RFWN, 6", ANSI 150
17	X	PIPE, 2.375" O.D. X 0.154" W.T., GRADE X-42, API-5L (SCHEDULE 40)
18	1 EA	BLIND FLANGE, 6" PIPE, ANSI 300
19	4 EA	REGULATOR, FISHER TYPE 60-PR SERIES WITH PILOT, ANSI 300 FLANGES, STEEL BODY (OWNER SPECIFIED)
20	1 EA	RELIEF VALVE, FISHER, ANSI 150 FLANGES, STEEL BODY (OWNER SPECIFIED)
21	1 EA	REDUCER, 6"x2", WXW (SCHEDULE 40)
22	1 EA	VALVE, 2" KEROTEST BALL VALVE, FULL PORT, FXF, CLASS 150, STEEL BODY (OR EQUAL)

NOTES:

1. PROPOSED REGULATOR STATION TO BE ENCLOSED IN 15' X 10' STEEL BUILDING. BUILDING WILL HAVE ELECTRIC FOR LIGHTING. RELIEF VALVE WILL EXTEND THROUGH ROOF ACCESS.
2. CATHODIC PROTECTION JUNCTION BOX TO BE INSTALLED AT REGULATOR STATION PER PHCPUD STANDARDS.
3. 21' x 26' CHAIN LINK FENCE SHALL BE INSTALLED ENCLOSING BUILDING TO INCLUDE 6' GATE.

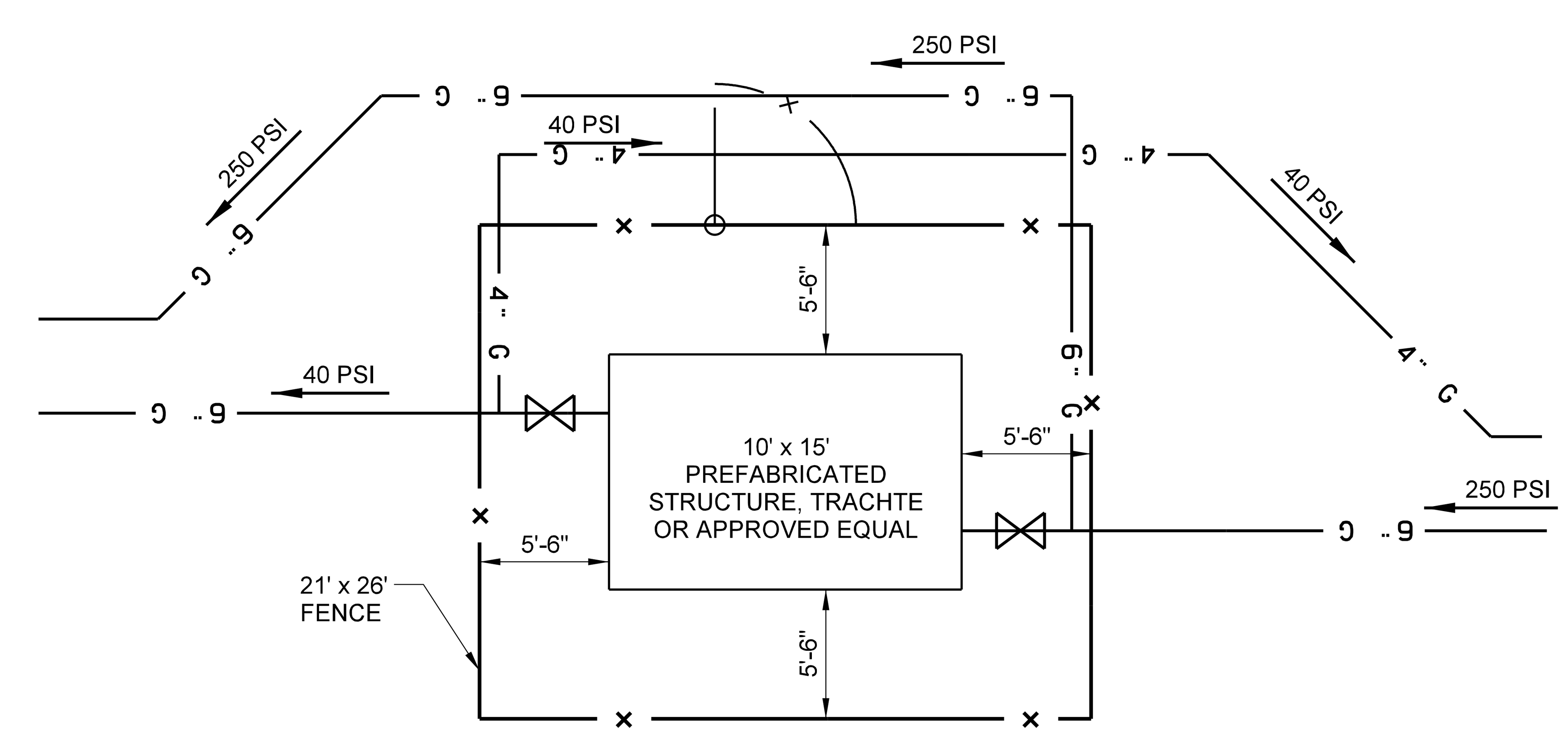


NOTES:

1. PROPOSED REGULATOR STATION TO BE ENCLOSED IN 15' X 10' STEEL BUILDING. BUILDING WILL HAVE ELECTRIC FOR LIGHTING. RELIEF VALVE WILL EXTEND THROUGH ROOF ACCESS.
2. CATHODIC PROTECTION JUNCTION BOX TO BE INSTALLED AT REGULATOR STATION PER PUCPUD STANDARDS.

PROPOSED REGULATOR STATION

NOT TO SCALE



PLAN VIEW

NOT TO SCALE

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY DETAIL

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2013	.	U2-2
.	.	.	.
.	.	.	.
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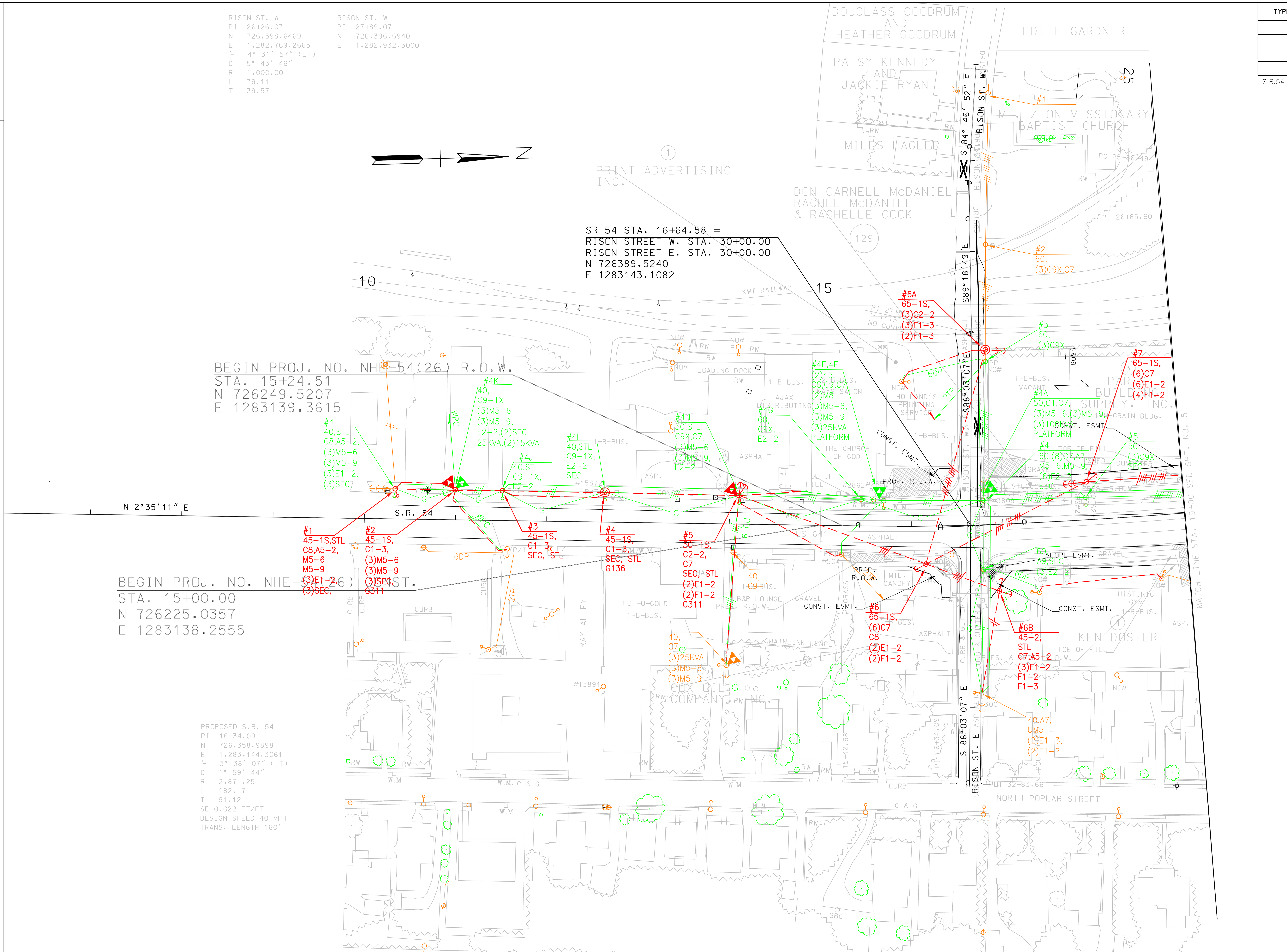
S.R.54 HENRY CO.



MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ELECTRIC
RELOCATION

BEGIN PROJECT
TO
STA. 19+00

SCALE: 1″= 50′

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2013	.	U2-3
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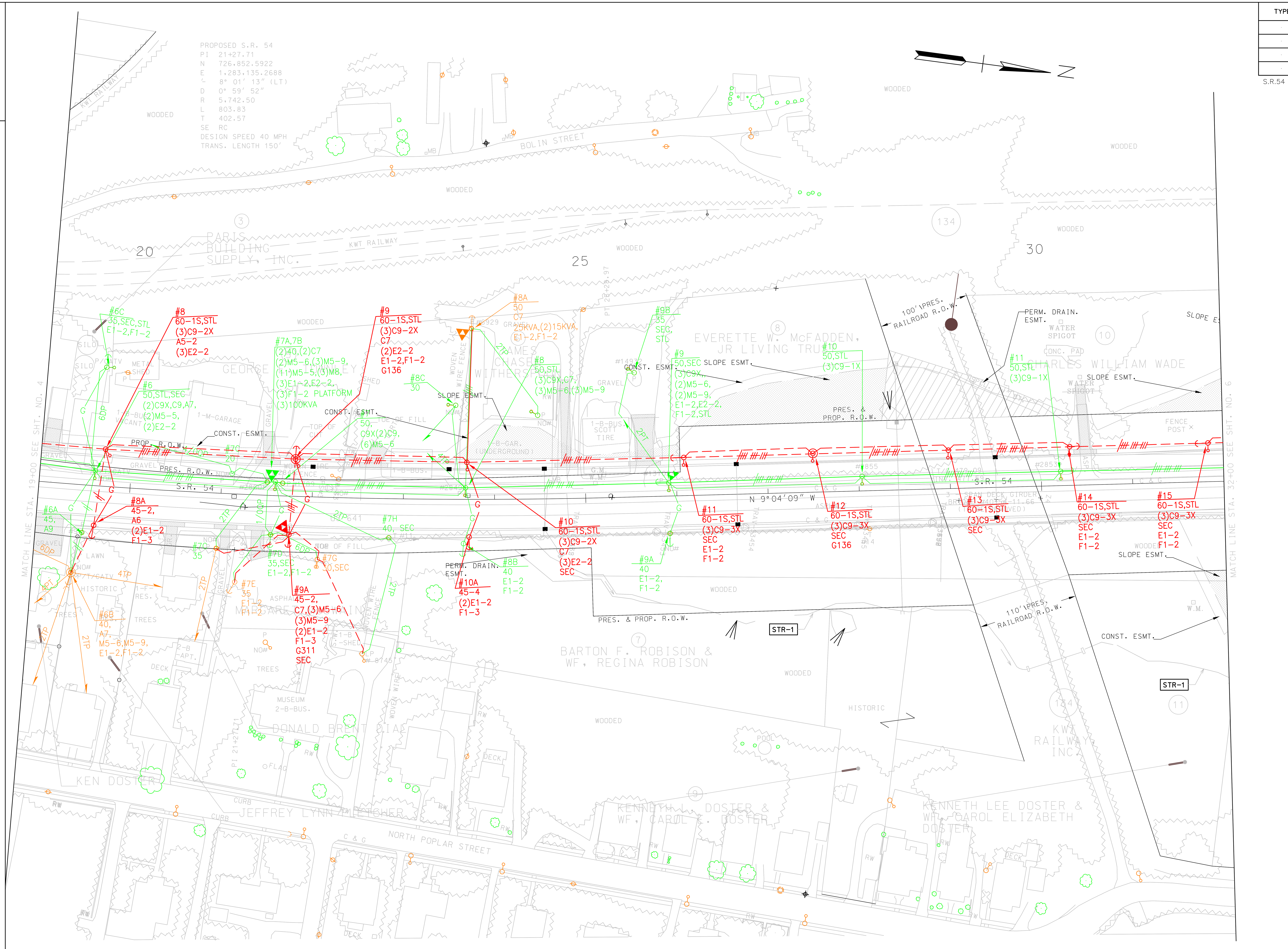
S.R.54 HENRY CO.



MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ELECTRIC RELOCATION

STA. 19+00
TO
STA. 32+00

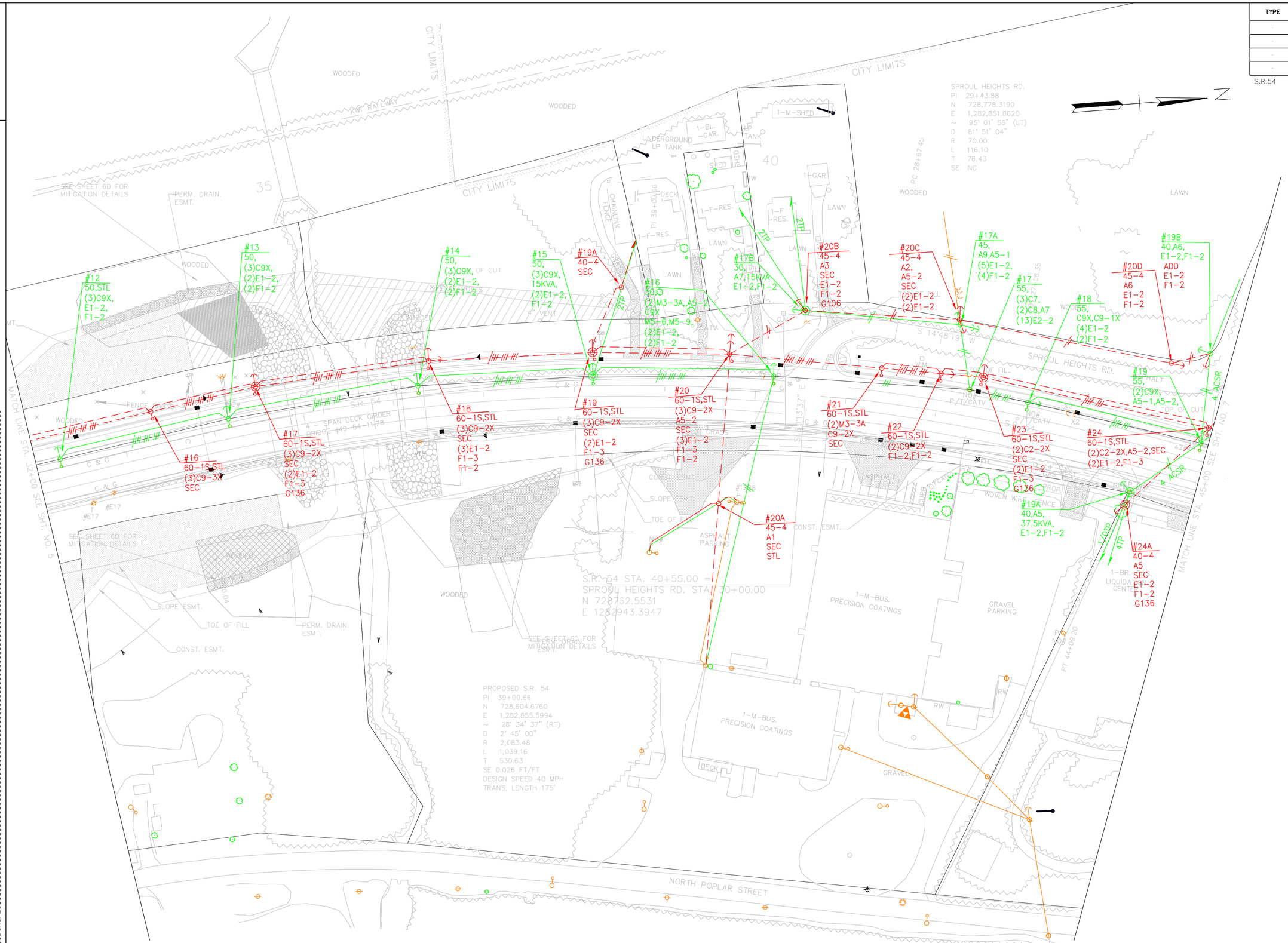
SCALE: 1″=_50′

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
	2013		U2-4

S.R.54 / HENRY CO.



MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ELECTRIC RELOCATION

STA. 32+00
TO
STA. 45+00

SCALE: 1"= 50'

$$$$SYTIME$$$$$
$$$$DGNSPEC$$$$$

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2013	.	U2-5
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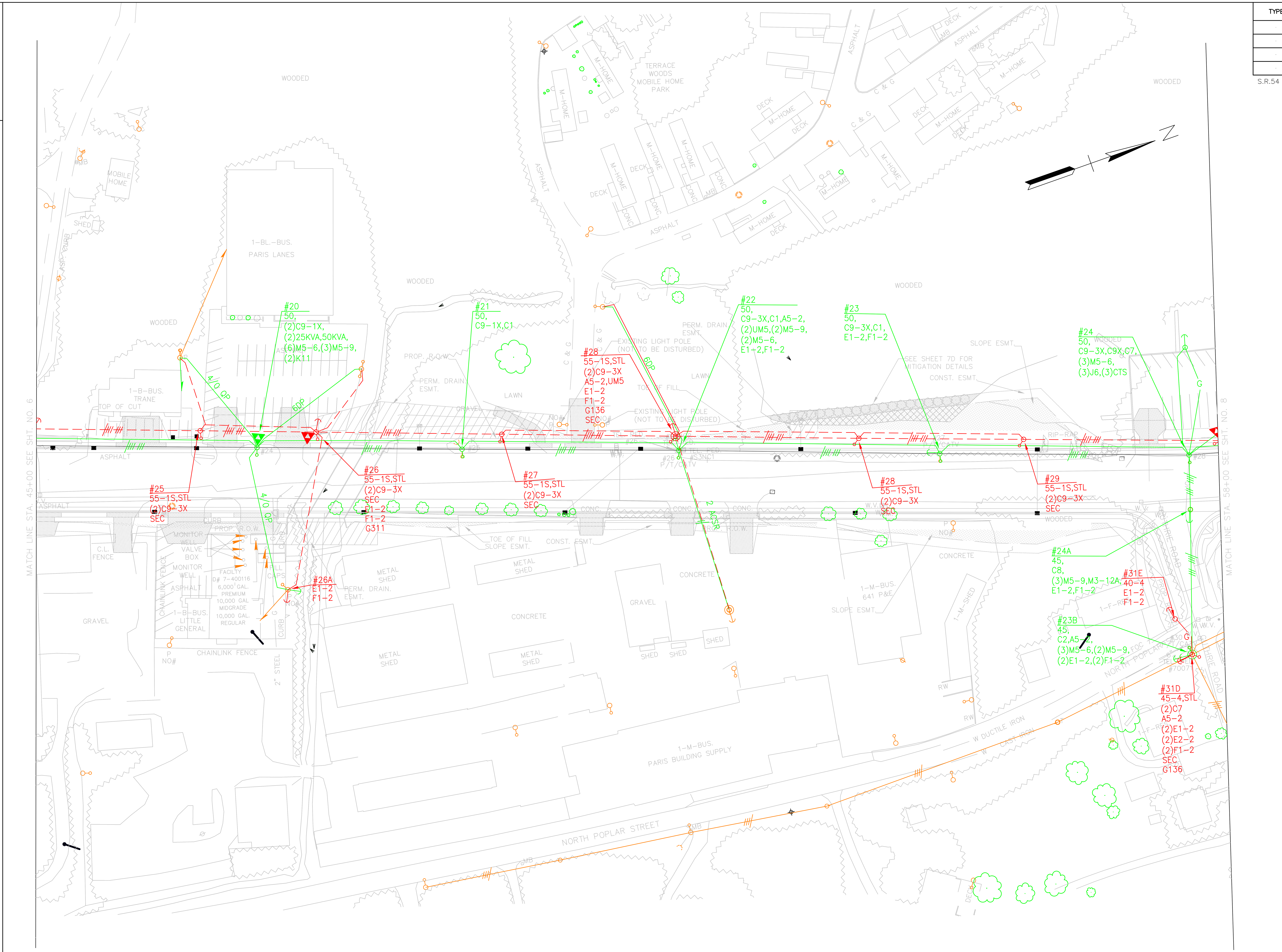
S.R.54 HENRY CO.



MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ELECTRIC RELOCATION
STA. 45+00
TO
STA. 58+00

SCALE: 1"= 50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2013	.	U2-6
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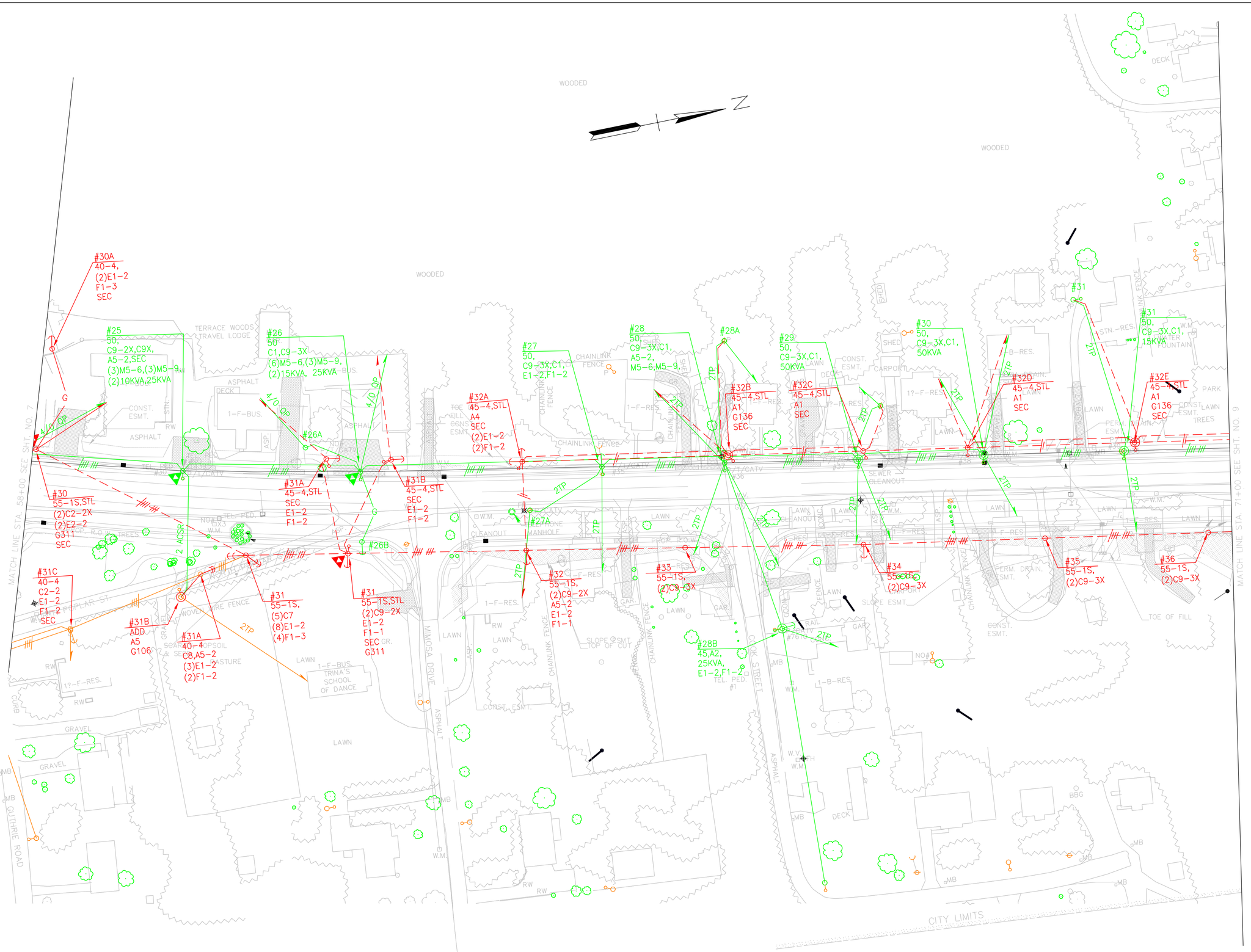
S.R.54 HENRY CO.



MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ELECTRIC
RELOCATION
STA. 58+00
TO
STA. 71+00

SCALE: 1"=_50'

$$$$SYTIME$$$$$
$$$$DGNSPEC$$$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2012	.	U2-7
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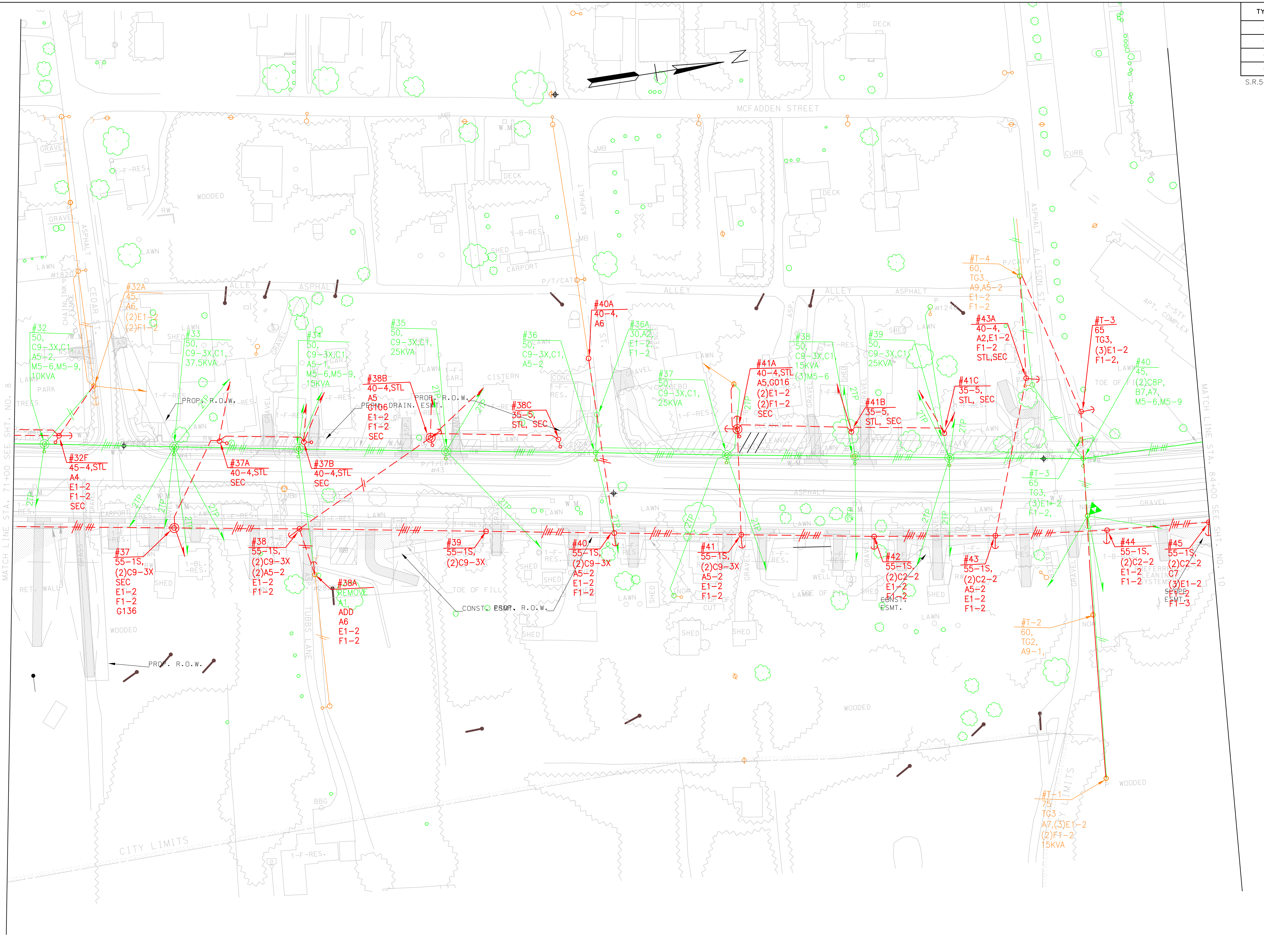
S.R.54 HENRY CO.



MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ELECTRIC RELOCATION

STA. 71+00
TO
STA. 84+00

SCALE: 1"= 50'

$$$$SYTIME$$$$$$$$
$$$$DGNSPEC$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
	2012		U2-8

S.R.54 HENRY CO.

MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ELECTRIC
RELOCATION
STA. 84+00
TO
STA. 97+00

SCALE: 1"= 50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$$$$

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2012	.	U2-9
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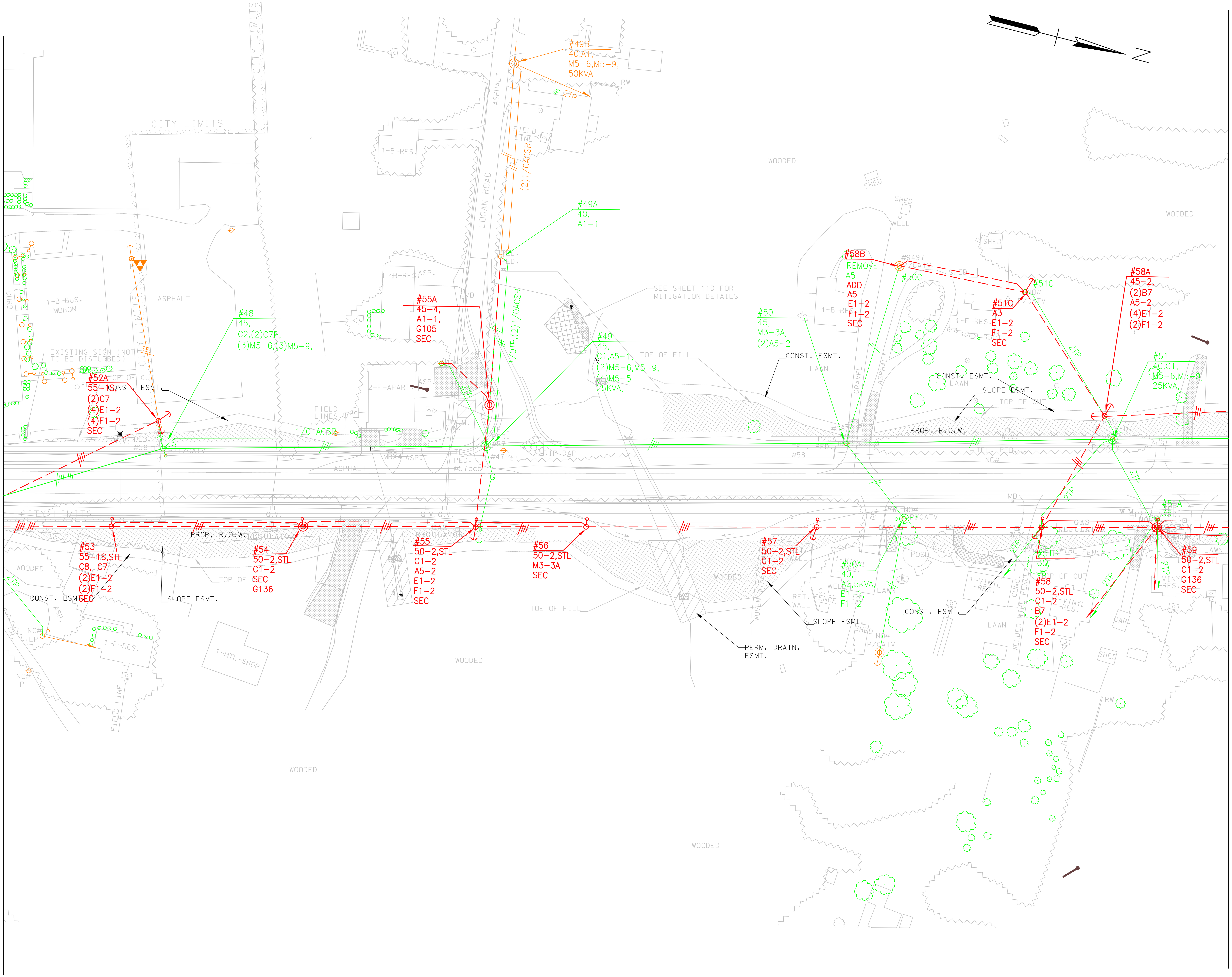
S.R.54 HENRY CO.



MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ELECTRIC RELOCATION

STA. 97+00
TO
STA. 110+00

SCALE: 1"=_50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2012	.	U2-10
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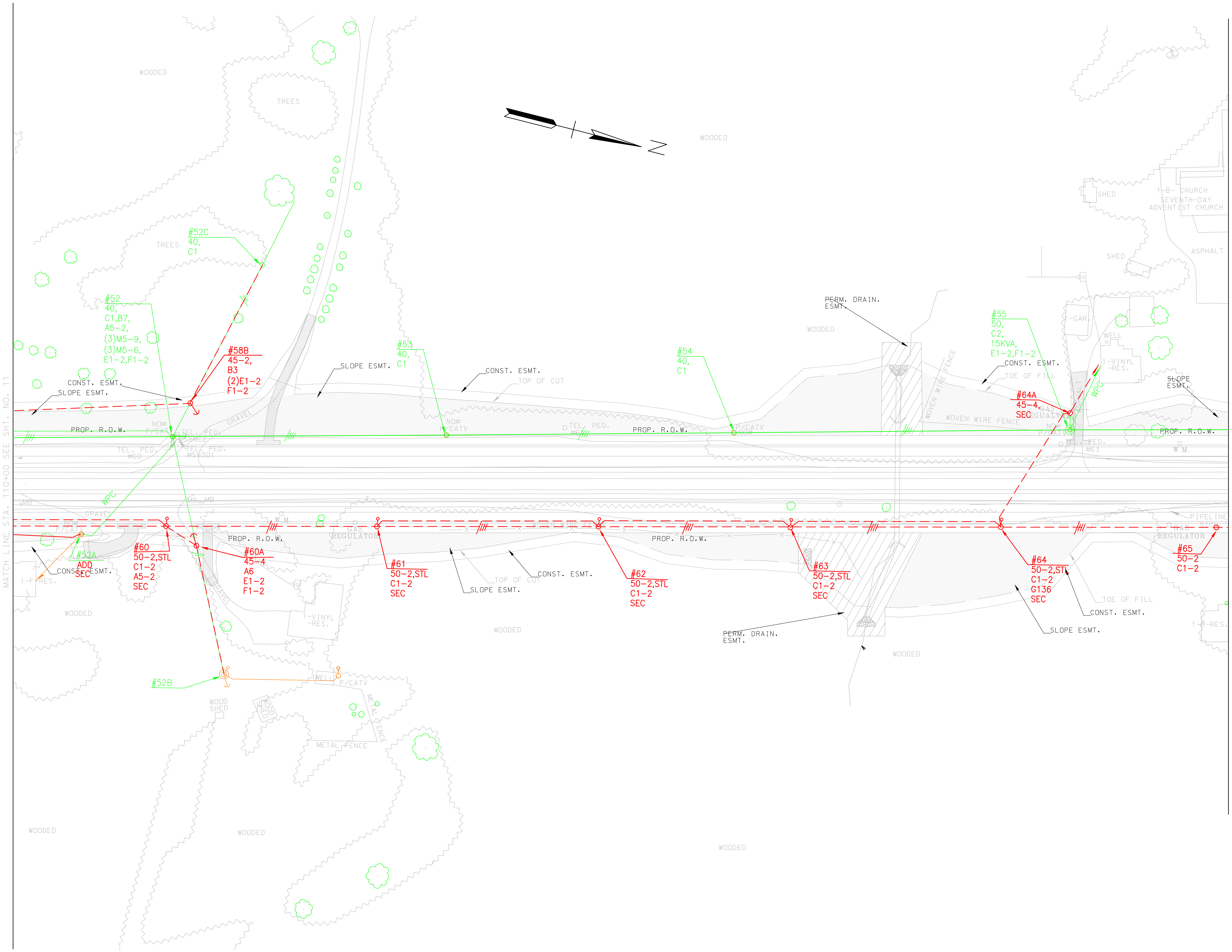
S.R.54 HENRY CO.



$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ELECTRIC
RELOCATION

STA. 110+00
TO
STA. 123+00

SCALE: 1"= 50'

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2012	.	U2-11
.	.	.	.
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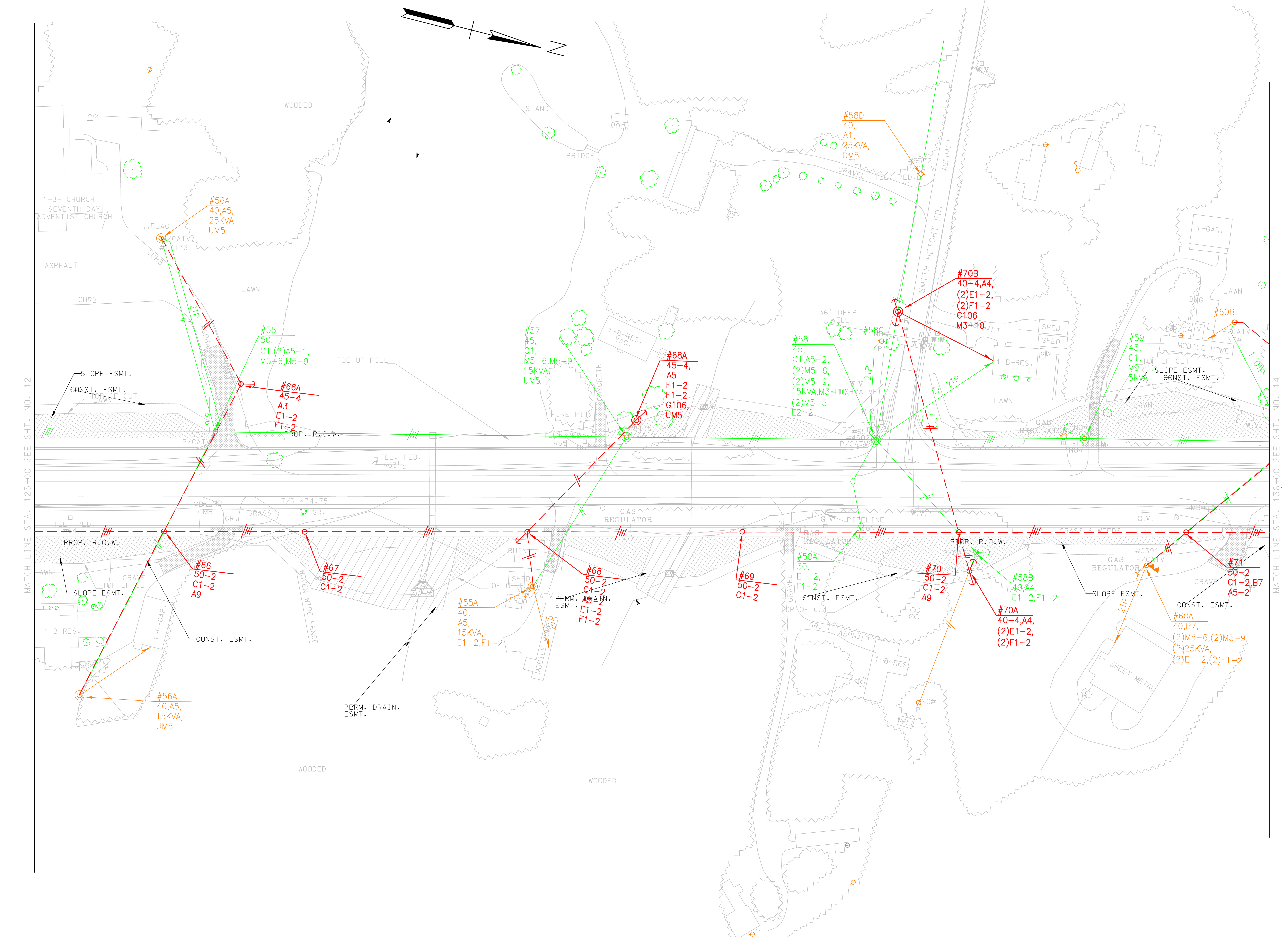
S.R.54 HENRY CO.



$$$$SYTIME$$$$$$
$$$DGNSPEC$$

MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ELECTRIC RELOCATION

STA. 123+00
TO
STA. 136+00

SCALE: 1"=_50'

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2012	.	U2-12
.	.	.	.
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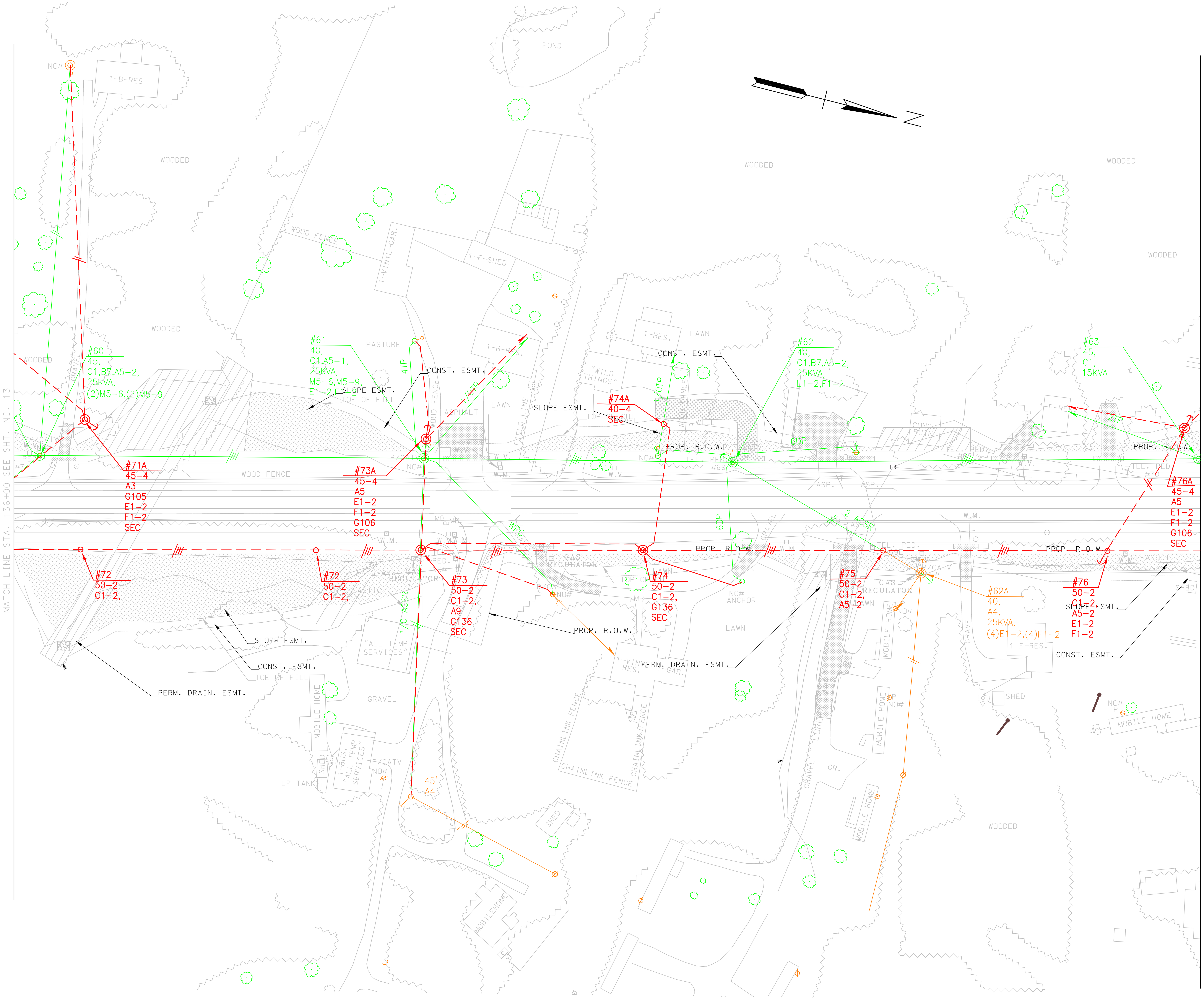
S.R.54 HENRY CO.



MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ELECTRIC
RELOCATION

STA. 136+00
TO
STA. 148+00

SCALE: 1"= 50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
.	2012	.	U2-13
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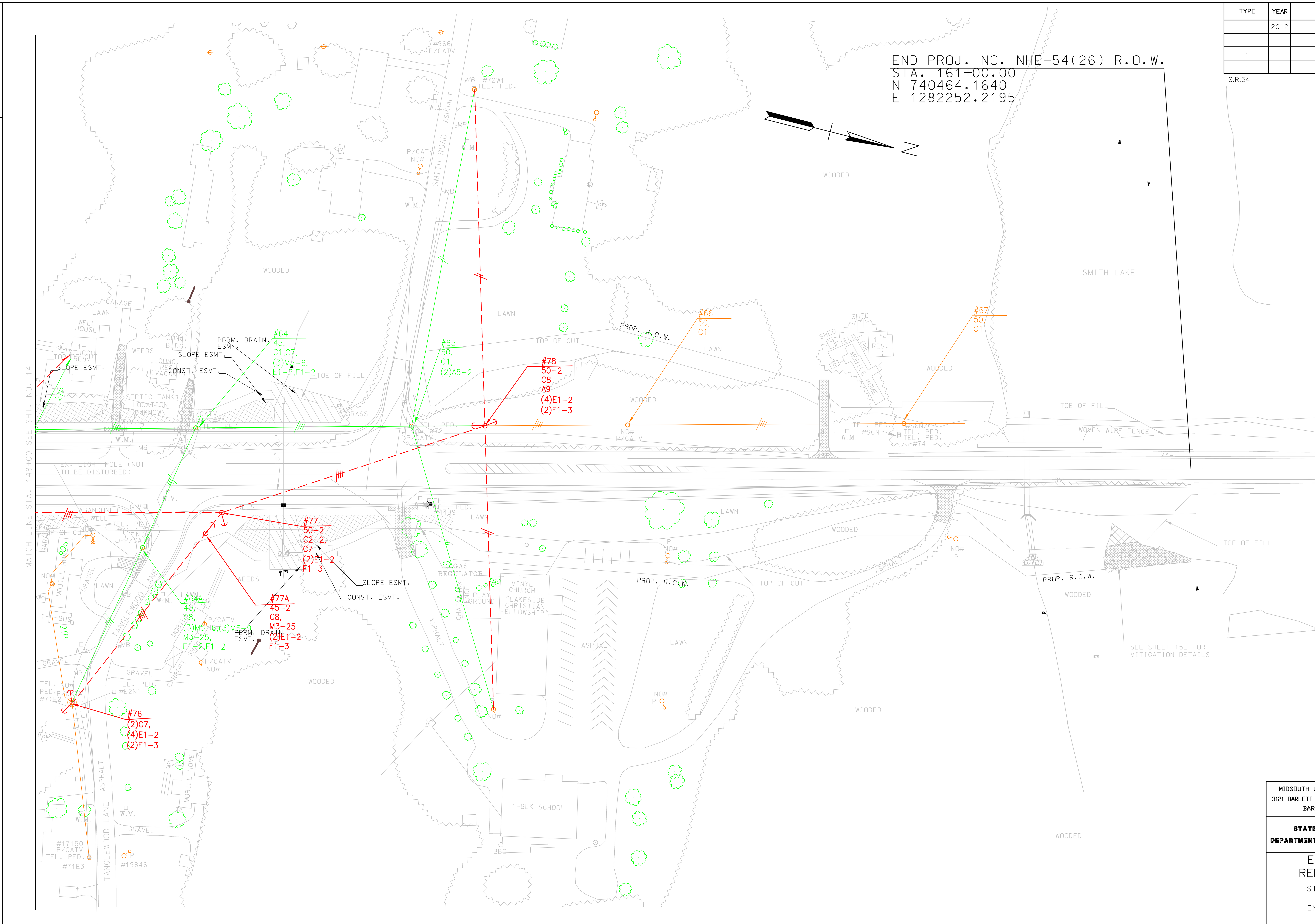
S.R.54 HENRY CO.



MIDSOUTH UTILITY CONSULTANTS
3121 BARLETT CORPORATE DR. SUITE 102
BARLETT, TN 38133

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ELECTRIC
RELOCATION

STA. 148+00
TO
END PROJECT

SCALE: 1"=_50'

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

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

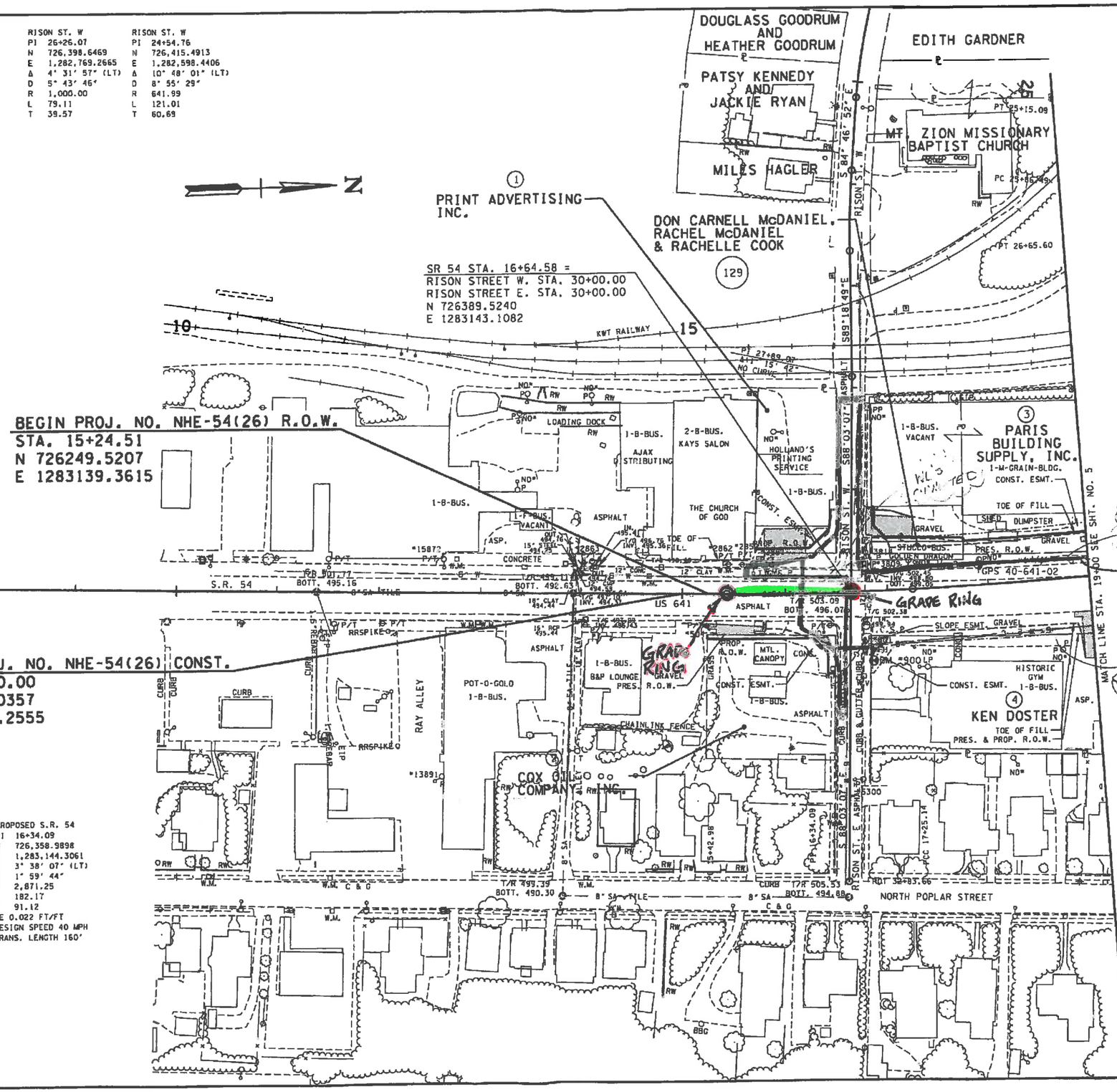
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	4

REV. 06-22-12: REVISED PROP. R.O.W. & ESMTS. TRACTS 1, 2, 3 & 129

REV. 08-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON THE WEST SIDE OF TRACTS 1 & 3

REV. 08-30-12: ADDED A PI & DELTA WITH NO CURVE TO RISON STREET W. TO CLARIFY ALIGNMENT; CORRECTED NAME OF RAILROAD

RISON ST. W		RISON ST. W	
PI	26+26.07	PI	24+54.76
N	726,398.6469	N	726,415.4913
E	1,282,769.2665	E	1,282,598.4406
Δ	4° 31' 57" (LT)	Δ	10° 48' 01" (LT)
D	5° 43' 46"	D	8° 55' 29"
R	1,000.00	R	641.99
L	79.11	L	121.01
T	39.57	T	60.69



PROPOSED S.R. 54

PI	16+34.09
N	726,358.9898
E	1,283,144.3061
Δ	3° 38' 07" (LT)
D	1° 59' 44"
R	2,871.25
L	182.17
T	91.12

SE 0.022 FT/FT
DESIGN SPEED 40 MPH
TRANS. LENGTH 160'

SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TCRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

BEGIN PROJECT TO STA. 19+00

SCALE: 1" = 50'

8/30/2012
h:\02093\dgn\004.sht

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

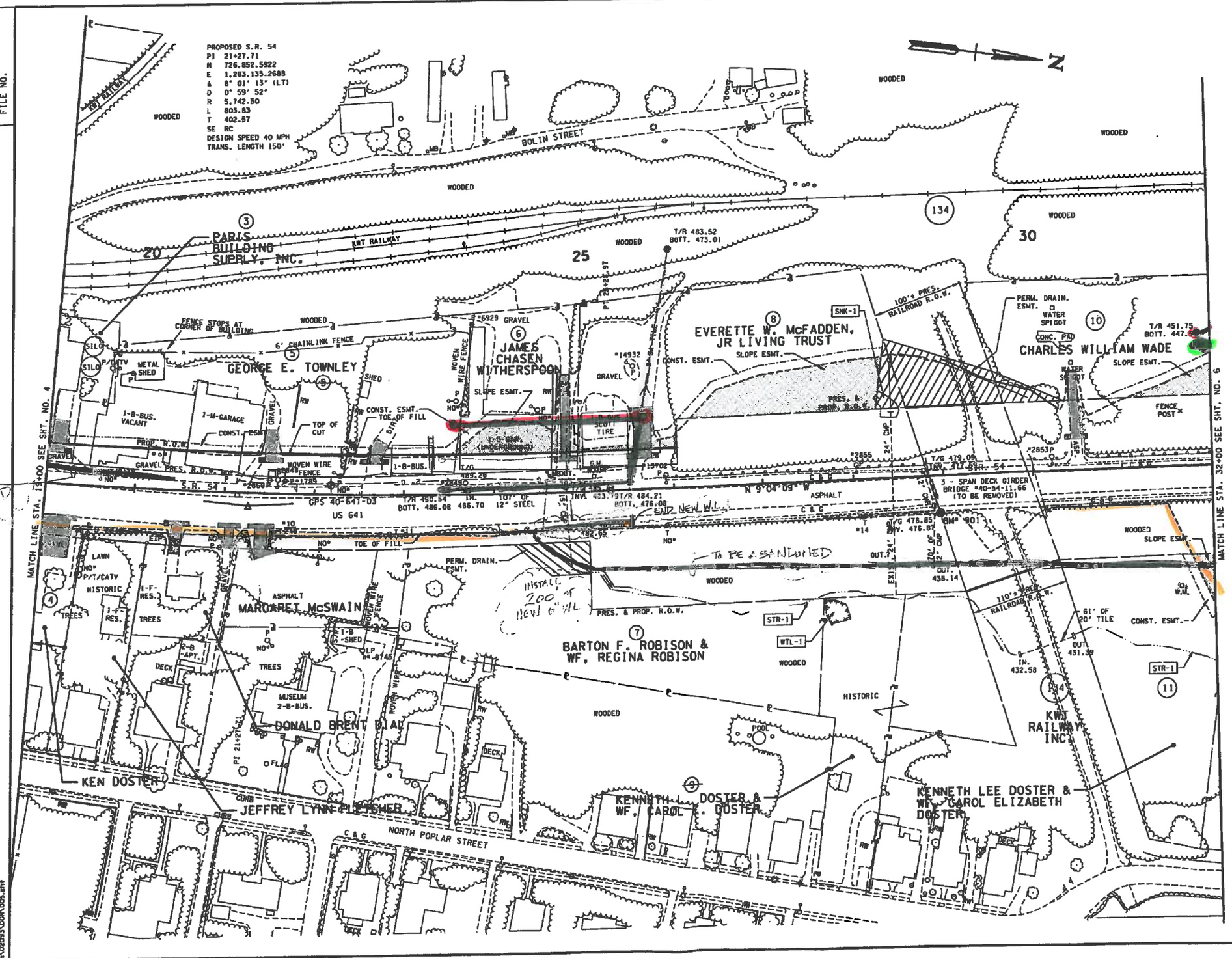
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	5

REV. 06-22-12: ADDED TRACT 134 & REVISED PERM. DRAIN. ESMT. TRACT 10; LABELED EXIST. RAILROAD R.O.W.; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV. 08-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON WEST SIDE OF TRACTS 3, 5, 6, 8 & 10; CLARIFIED PROPERTY LINE BETWEEN TRACTS 3 & 5

REV. 08-30-12: CORRECTED NAME OF RAILROAD; DIMENSIONED PRES. RAILROAD R.O.W.; REVISED PRES. RAILROAD R.O.W. TO CROSS ROADWAY; ADDED PROP. R.O.W. TO ROADWAY CROSSING RAILROAD

REV. 11-05-12: ADDED SURVEY OF FENCE TO TRACT 5



SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000030 AND TIED TO THE TDOT ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 19+00 TO STA. 32+00

SCALE: 1" = 50'

11/6/2012
N:\02093\DGN\005.dgn

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	6

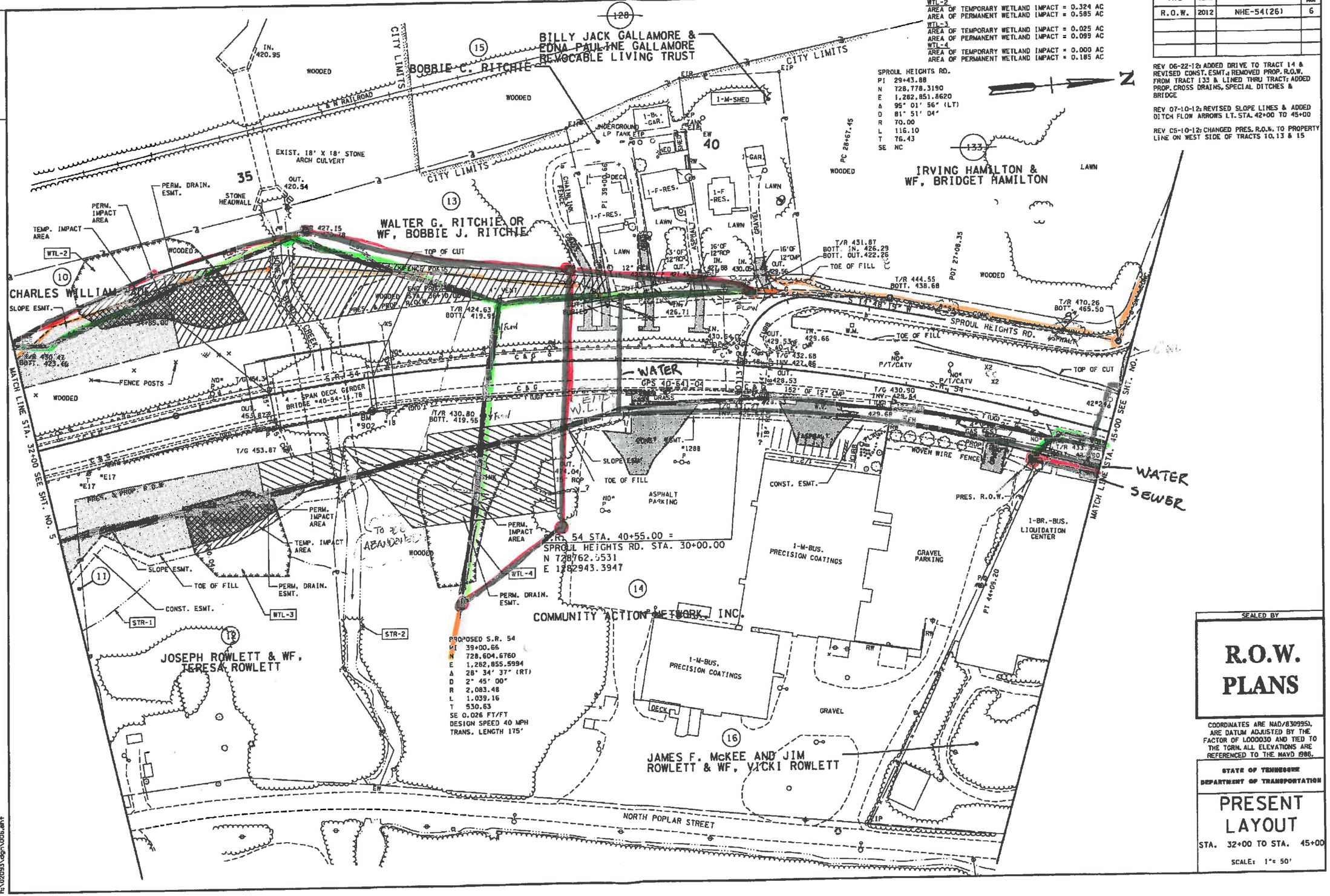
REV 06-22-12: ADDED DRIVE TO TRACT 14 & REVISED CONST. ESMT.; REMOVED PROP. R.O.W. FROM TRACT 133 & LINED THRU TRACT; ADDED PROP. CROSS DRAINS, SPECIAL DITCHES & BRIDGE

REV 07-10-12: REVISED SLOPE LINES & ADDED DITCH FLOW ARROWS LT. STA. 42+00 TO 45+00

REV 05-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON WEST SIDE OF TRACTS 10, 13 & 15

WTL-2
AREA OF TEMPORARY WETLAND IMPACT = 0.324 AC
AREA OF PERMANENT WETLAND IMPACT = 0.585 AC
WTL-3
AREA OF TEMPORARY WETLAND IMPACT = 0.025 AC
AREA OF PERMANENT WETLAND IMPACT = 0.099 AC
WTL-4
AREA OF TEMPORARY WETLAND IMPACT = 0.000 AC
AREA OF PERMANENT WETLAND IMPACT = 0.185 AC

SPROUL HEIGHTS RD.
PI 29+43.88
N 728,778.3190
E 1,282,851.8620
Δ 95° 01' 56" (LT)
D 81° 51' 04"
R 70.00
L 116.10
T 76.43
SE NC



SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 32+00 TO STA. 45+00

SCALE: 1" = 50'

8/8/2012
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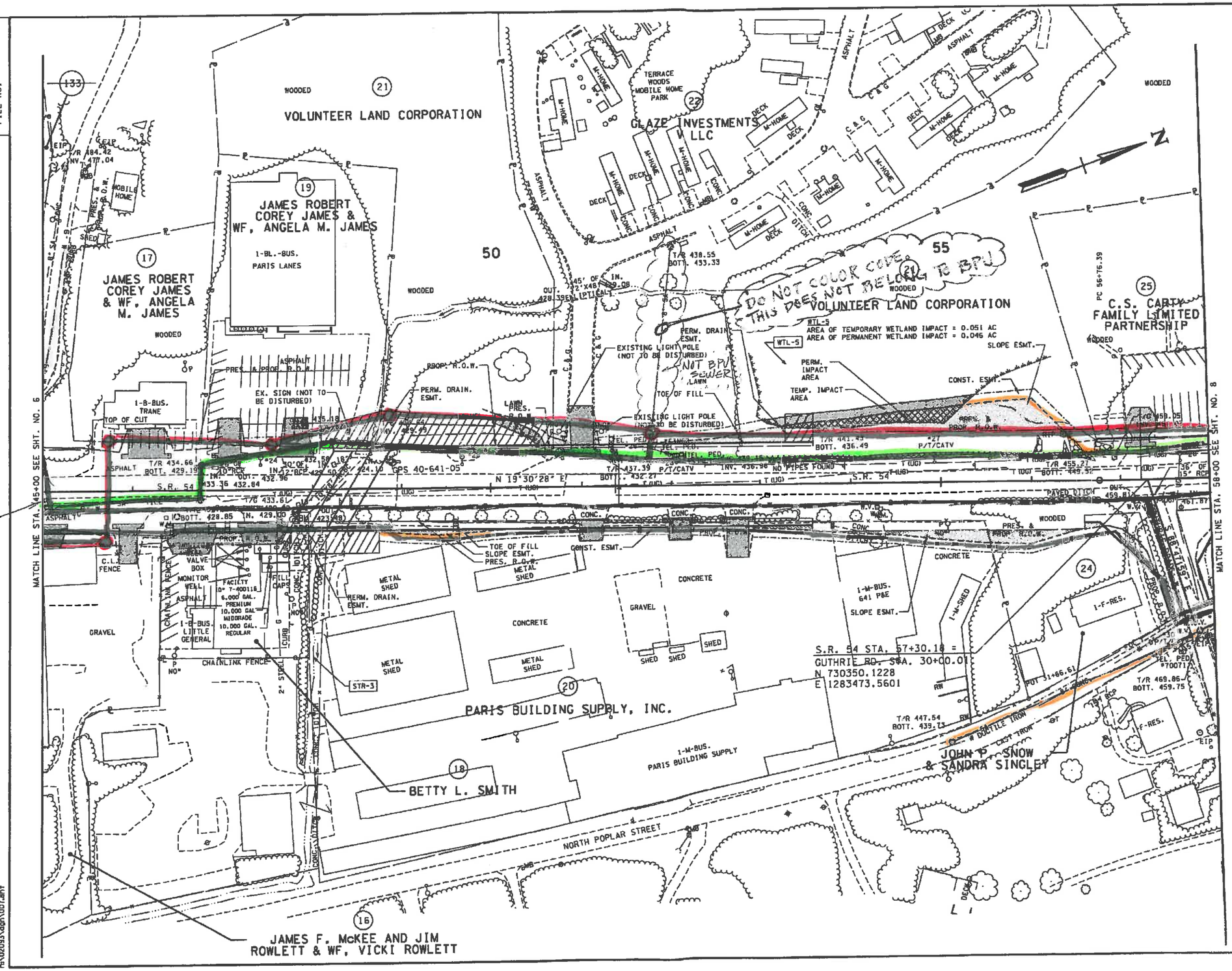
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	7

REV. 06-22-12: ADDED PARKING STRIPING TO TRACTS 17, 19 & 25; REMOVED NOTES REGARDING QUANTITY OF PARKING SPACES FROM TRACTS 17, 18, 19; ADDED NOTES TO AVOID DISTURBANCE OF EXISTING FEATURES TRACTS 19 & 22; ADDED DRIVE TRACTS 18 & 19; ADDED PROP. BRIDGE & SPECIAL DITCH; ADDED PERM. DRAIN. ESMT. TRACTS 18 & 19; REVISED PERM. DRAIN. ESMT. TRACT 20

REV. 08-10-12: ADDED DRIVE LT. STA. 57+23; ADDED DRIVE RT. STA. 47+44.53 & REVISED CONST. ESMT. TRACT 18

REV. 08-30-12: CORRECTED GUTHRIE RD. STATION & COORDINATES AT ALIGNMENT CROSSING

SEALED BY

R.O.W. PLANS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 45+00 TO STA. 58+00

SCALE: 1" = 50'

8/30/2012
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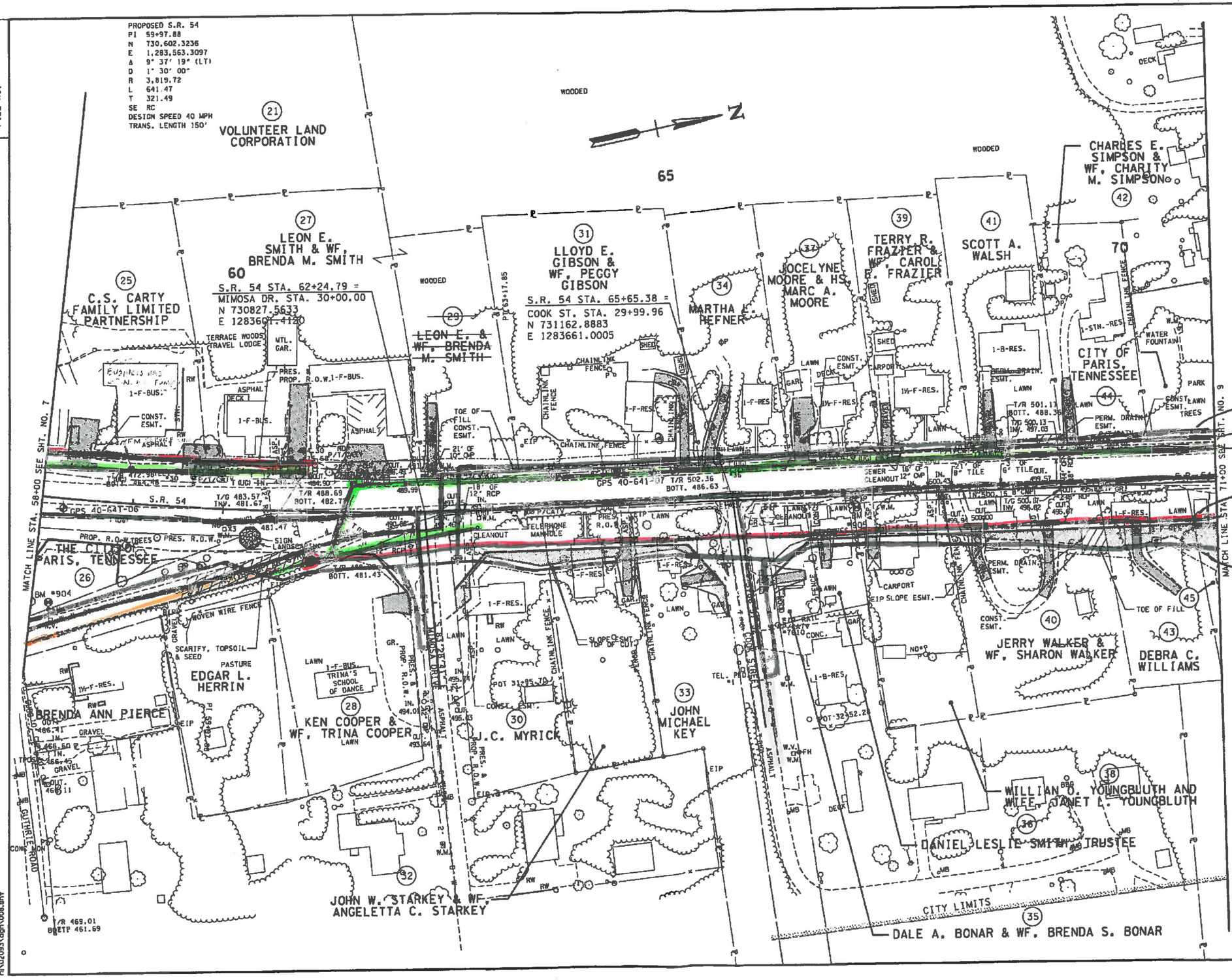
TENNESSEE D.O.T.	
DESIGN DIVISION	
FILE NO.	

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	8

REV. 06-22-12: ADDED DRIVE TO TRACT 28; UPDATED TOPO TRACT 25; COMBINED TRACTS 27 & 29. LINED THRU TRACT 29; ADDED PROP. CROSS DRAIN

REV. 08-30-12: CORRECTED COOK ST STATION & COORDINATES AT ALIGNMENT CROSSING



SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/83(1991), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TCRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 58+00 TO STA. 71+00

SCALE: 1" = 50'

8/30/2012
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	9
CONSTR.	2014	40003-3218-14	U7-9

REV 06-22-12: ADDED TRACT 45 INFO; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV 08-10-12: REVISED DRAIN. ESMT. TRACT 53

REV 08-30-12: CORRECTED ELM ST STATION & COORDINATES AT ALIGNMENT CROSSING; CORRECTED ALLISON ST. STATION & COORDINATES AT ALIGNMENT CROSSING

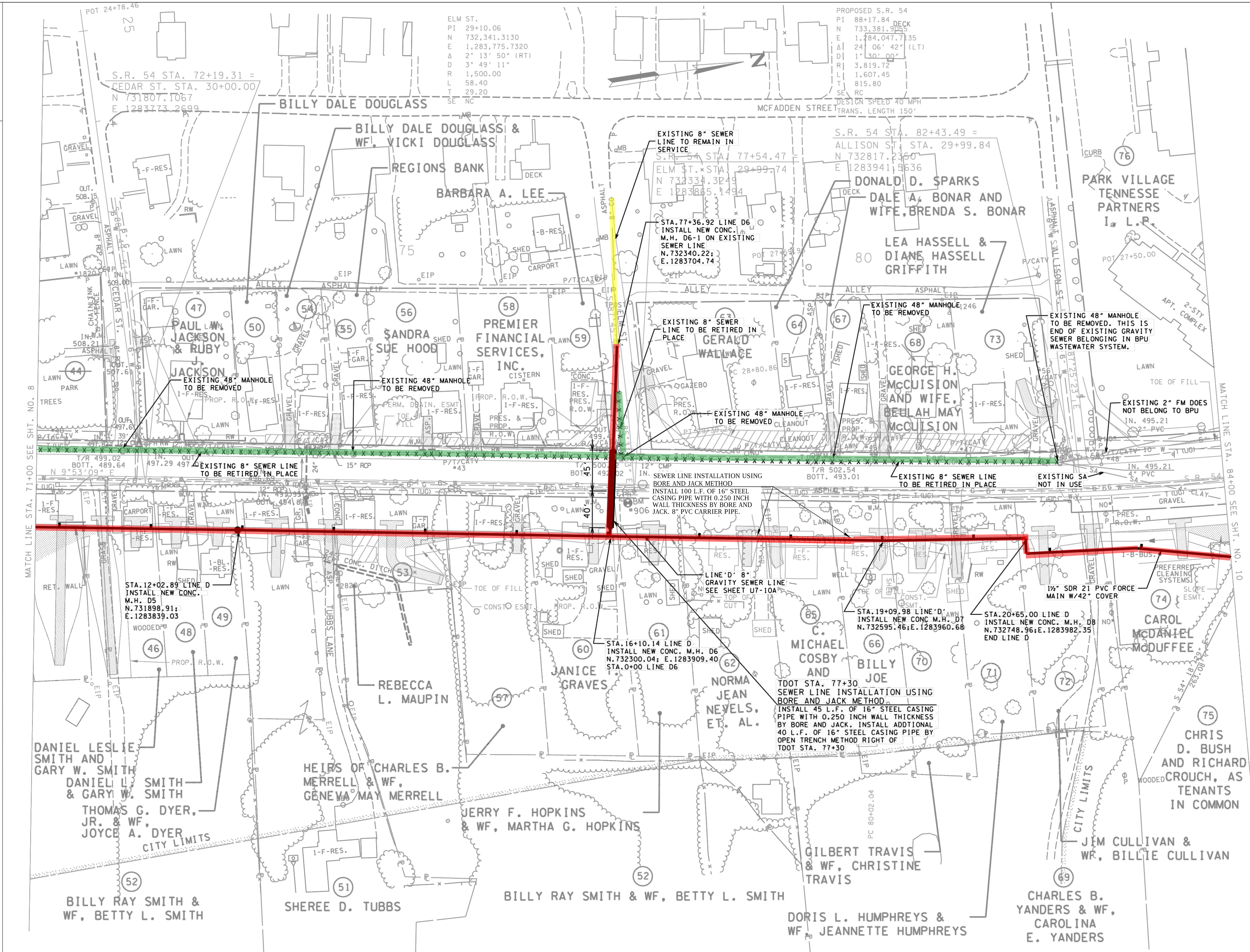
REV 11-05-12: CHANGED OWNER NAME TRACT 63; REVISED PROPERTY LINES ON TRACTS 62, 65, 66, 70, 71 & 72

REV 06-03-13: CHANGED PROPERTY OWNER NAME TRACTS 48, 55 & 57; ADJUSTED LENGTH OF DRIVES RT TRACTS 45, 49 & 53

REV 07-08-13: ADJUSTED LENGTH OF DRIVE RT TRACT 49

REV 09-10-13: UPDATED TOPO TRACTS 62, 65, 66, 70, 71 & 72

REV 10-03-13: REVISED GAS LINE LOCATIONS



SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 71+00 TO STA. 84+00

SCALE: 1″= 50′

$$$$SYTIME$$$$$
$$$$DGNSPEC$$

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

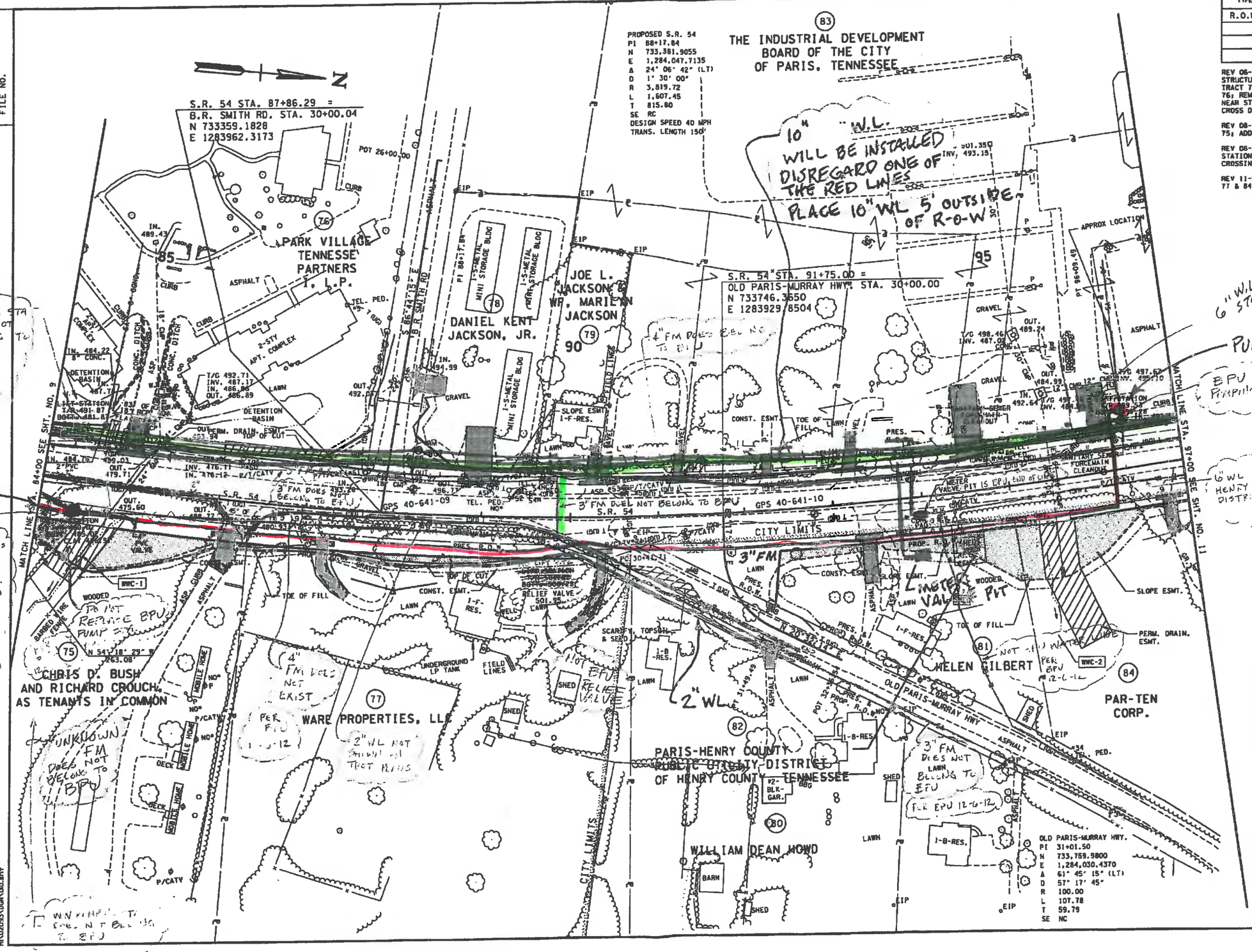
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	10

REV 06-22-12: REMOVED RESIDENTIAL STRUCTURES FROM TRACT 83; ADDED DRIVE TO TRACT 78; REVISED DRAINAGE ESMT. TRACT 76; REMOVED DRAIN. ESMTS. FROM TRACT 83 NEAR STA. 90+50 & 91+50 LT.; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV 08-10-12: REVISED DRAIN. ESMT. TRACT 75; ADDED DRAIN. ESMT. TRACT 76

REV 08-30-12: CORRECTED B.R. SMITH RD. STATION & COORDINATES AT ALIGNMENT CROSSING

REV 11-05-12: CHANGED OWNER NAME TRACTS 77 & 84



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R.O.W. PLANS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 84+00 TO STA. 97+00

SCALE: 1" = 50'

11/6/2012
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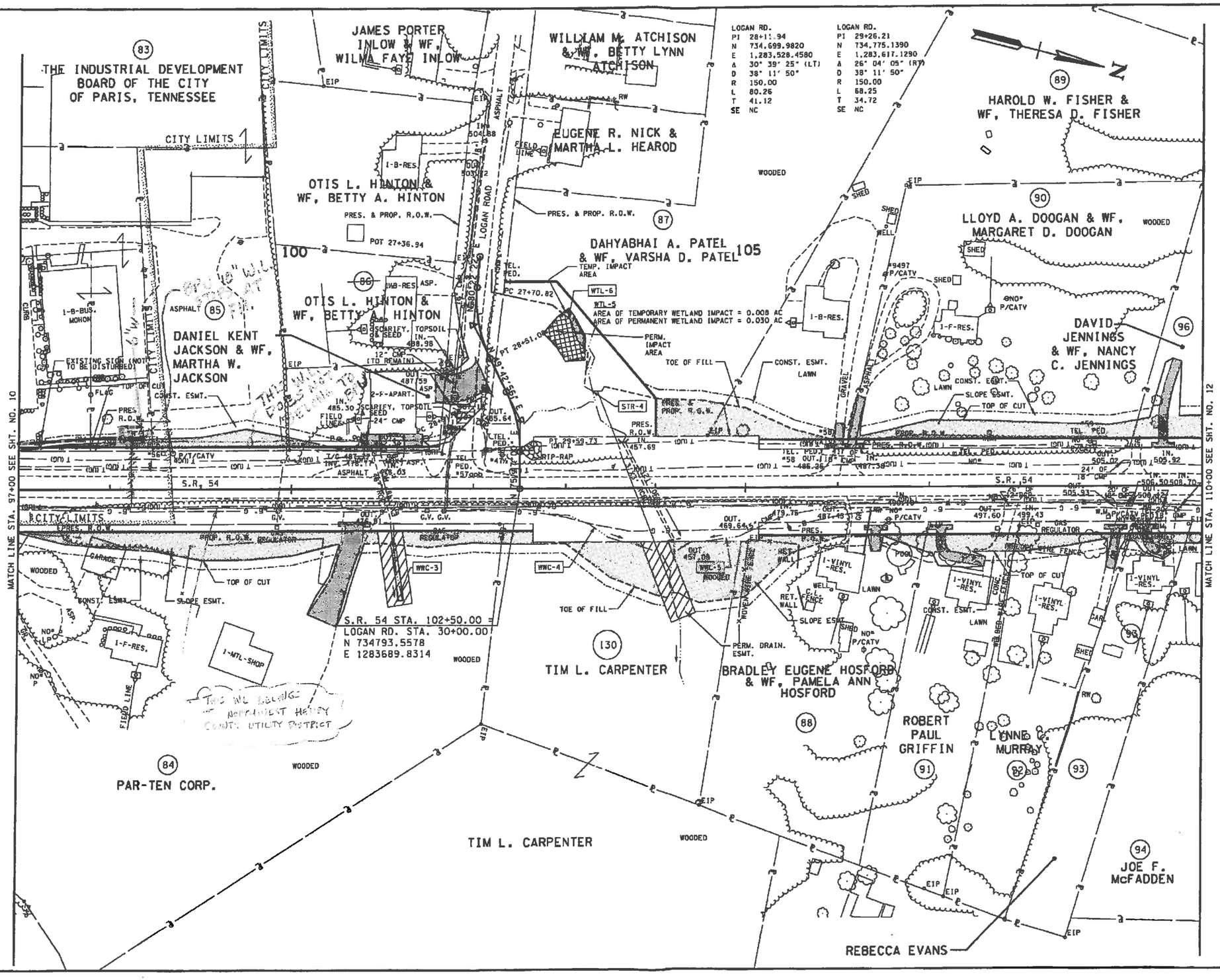
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	11

REV 06-22-12: ADDED NOTE TO AVOID SIGN ON TRACT 83 & ADJUSTED CONST. ESMT.; UPDATED TOPO TRACT 84 & ADDED DRIVE; ADDED PROP. CROSS DRAINS

REV 08-10-12: REVISED DRAIN. ESMT. TRACTS 84 & 130; REMOVED DRAIN. ESMT. TRACT 85

REV 11-05-12: CHANGED OWNER NAME TRACTS 84 & 130



SEALED BY

R.O.W. PLANS

COORDINATES ARE NAD/830995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000030 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 97+00 TO STA. 110+00

SCALE: 1" = 50'

11/6/2012
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	4

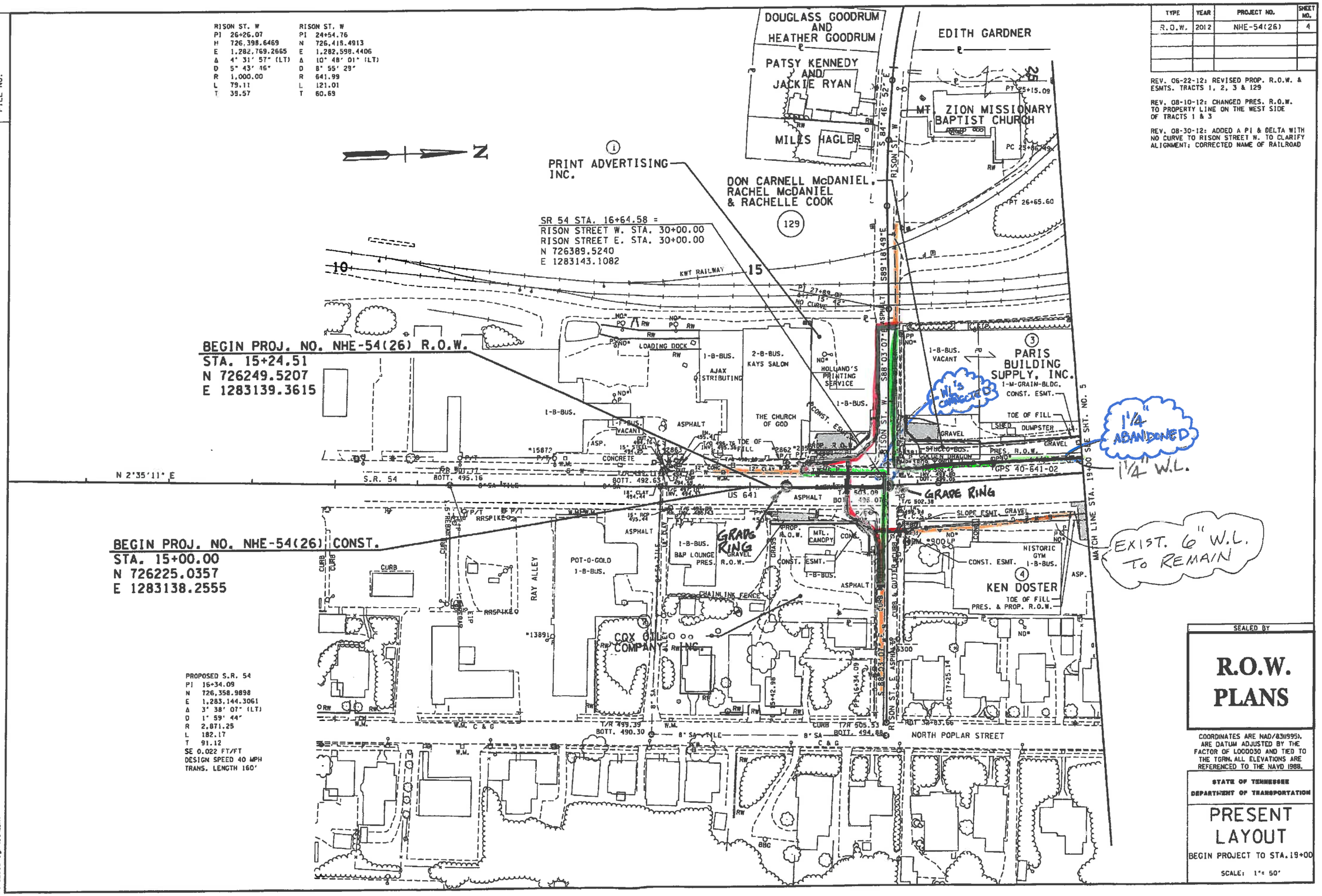
REV. 06-22-12: REVISED PROP. R.O.W. & ESMTS. TRACTS 1, 2, 3 & 129

REV. 08-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON THE WEST SIDE OF TRACTS 1 & 3

REV. 08-30-12: ADDED A PI & DELTA WITH NO CURVE TO RISON STREET W. TO CLARIFY ALIGNMENT; CORRECTED NAME OF RAILROAD

RISON ST. W
PI 26+26.07
N 726,398.6469
E 1,282,769.2665
Δ 4° 31' 57" (LT)
D 5° 43' 46"
R 1,000.00
L 79.11
T 39.57

RISON ST. W
PI 24+54.76
N 726,415.4913
E 1,282,598.4406
Δ 10° 48' 01" (LT)
D 8° 55' 29"
R 641.99
L 121.01
T 60.69



SEALED BY

R.O.W. PLANS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

BEGIN PROJECT TO STA. 19+00

SCALE: 1" = 50'

8/30/2012
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

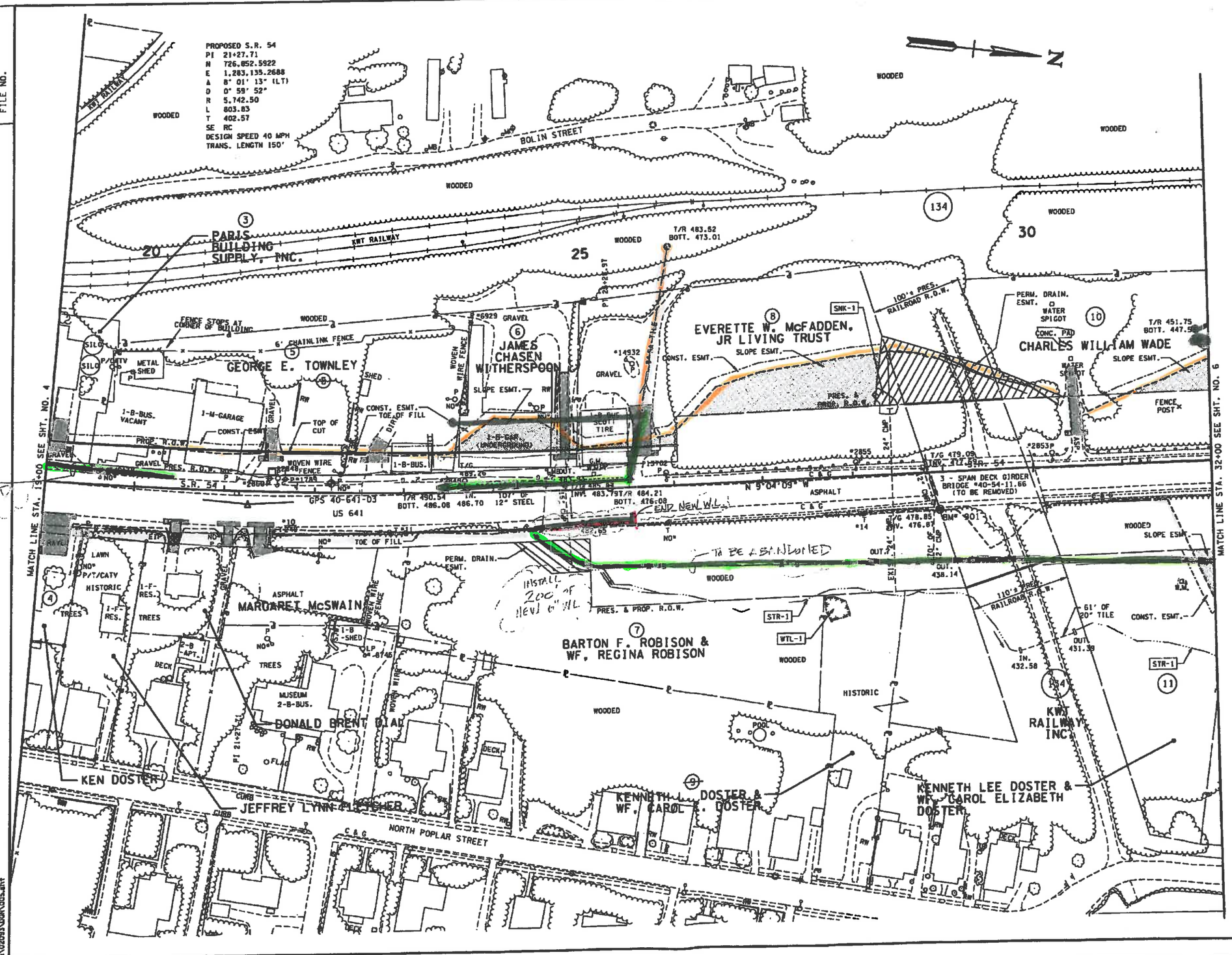
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	5

REV. 06-22-12: ADDED TRACT 134 & REVISED PERM. DRAIN. ESMT. TRACT 10; LABELED EXIST. RAILROAD R.O.W.; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV. 08-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON WEST SIDE OF TRACTS 3, 5, 6, 8 & 10; CLARIFIED PROPERTY LINE BETWEEN TRACTS 3 & 5

REV. 08-30-12: CORRECTED NAME OF RAILROAD; DIMENSIONED PRES. RAILROAD R.O.W.; REVISED PRES. RAILROAD R.O.W. TO CROSS ROADWAY; ADDED PROP. R.O.W. TO ROADWAY CROSSING RAILROAD

REV. 11-05-12: ADDED SURVEY OF FENCE TO TRACT 5



SEALED BY

R.O.W. PLANS

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 19+00 TO STA. 32+00

SCALE: 1" = 50'

8/6/2012
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	6

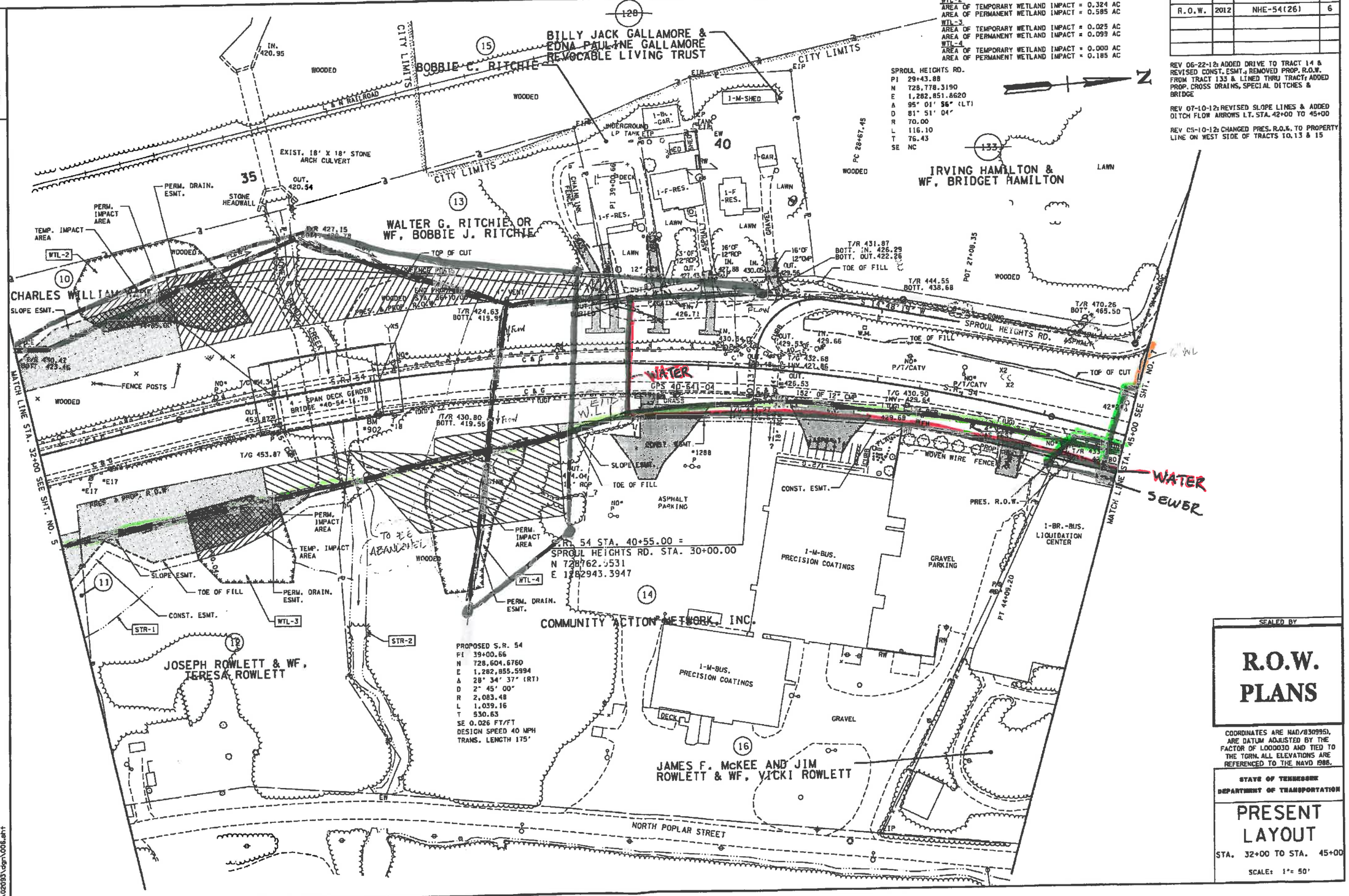
REV 06-22-12: ADDED DRIVE TO TRACT 14 & REVISED CONST. ESMT.; REMOVED PROP. R.O.W. FROM TRACT 133 & LINED THRU TRACT; ADDED PROP. CROSS DRAINS, SPECIAL DITCHES & BRIDGE

REV 07-10-12: REVISED SLOPE LINES & ADDED DITCH FLOW ARROWS LT. STA. 42+00 TO 45+00

REV 05-10-12: CHANGED PRES. R.O.W. TO PROPERTY LINE ON WEST SIDE OF TRACTS 10, 13 & 15

WTL-2
AREA OF TEMPORARY WETLAND IMPACT = 0.324 AC
AREA OF PERMANENT WETLAND IMPACT = 0.585 AC
WTL-3
AREA OF TEMPORARY WETLAND IMPACT = 0.025 AC
AREA OF PERMANENT WETLAND IMPACT = 0.099 AC
WTL-4
AREA OF TEMPORARY WETLAND IMPACT = 0.000 AC
AREA OF PERMANENT WETLAND IMPACT = 0.185 AC

SPROUL HEIGHTS RD.
PI 29+43.88
N 728,778.3190
E 1,282,851.8620
A 95° 01' 56" (LT)
D 81° 51' 04"
R 70.00
L 116.10
T 76.43
SE NC



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 32+00 TO STA. 45+00

SCALE: 1" = 50'

8/8/2012
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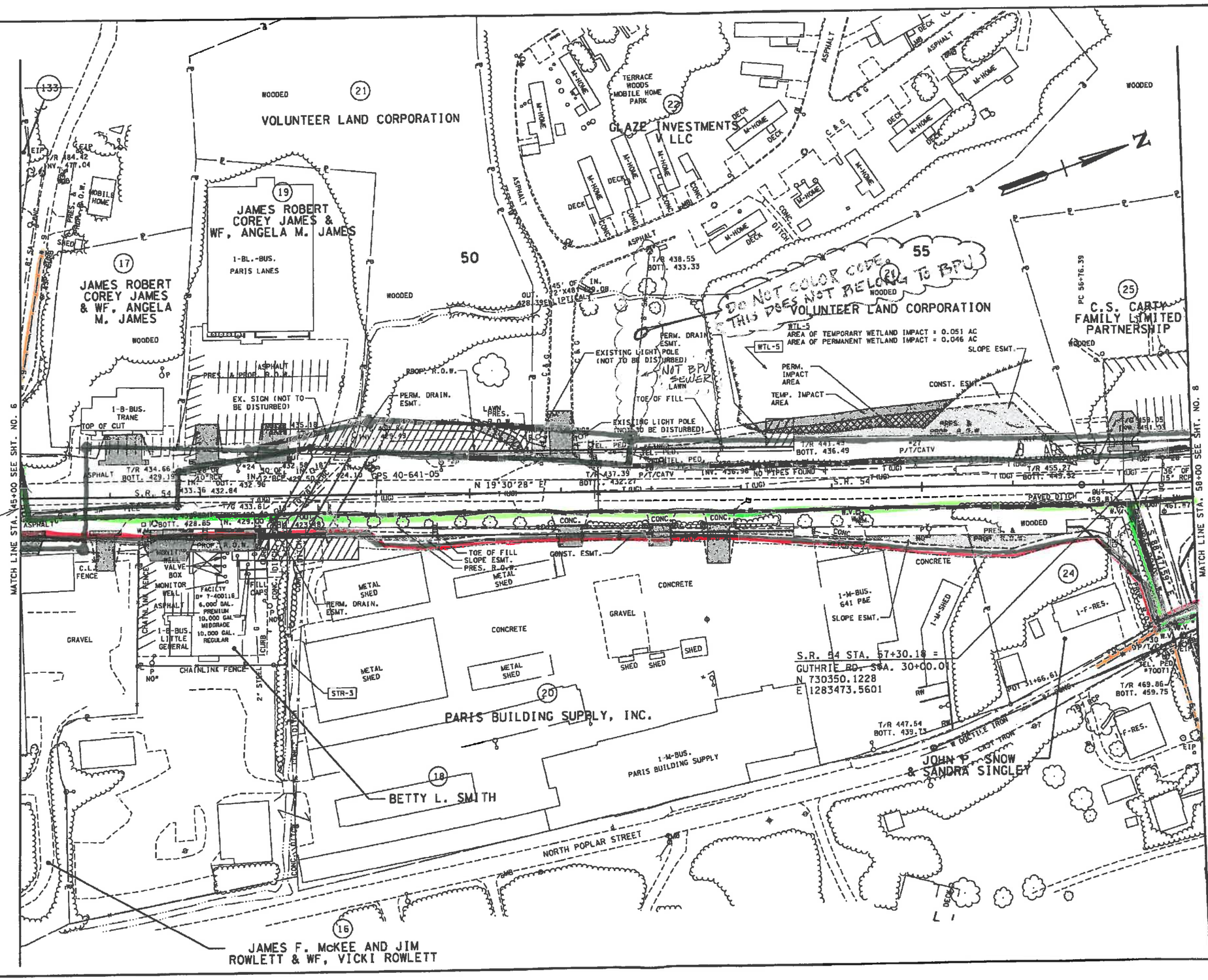
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	7

REV. 06-22-12: ADDED PARKING STRIPING TO TRACTS 17, 19 & 25; REMOVED NOTES REGARDING QUANTITY OF PARKING SPACES FROM TRACTS 17, 18, 19; ADDED NOTES TO AVOID DISTURBANCE OF EXISTING FEATURES TRACTS 19 & 22; ADDED DRIVE TRACTS 18 & 19; ADDED PROP. BRIDGE & SPECIAL DITCH; ADDED PERM. DRAIN. ESMT. TRACTS 18 & 19; REVISED PERM. DRAIN. ESMT. TRACT 20

REV. 08-10-12: ADDED DRIVE LT. STA. 57+23; ADDED DRIVE RT. STA. 47+44.53 & REVISED CONST. ESMT. TRACT 18

REV. 08-30-12: CORRECTED GUTHRIE RD. STATION & COORDINATES AT ALIGNMENT CROSSING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 45+00 TO STA. 58+00

SCALE: 1" = 50'

8/30/2012
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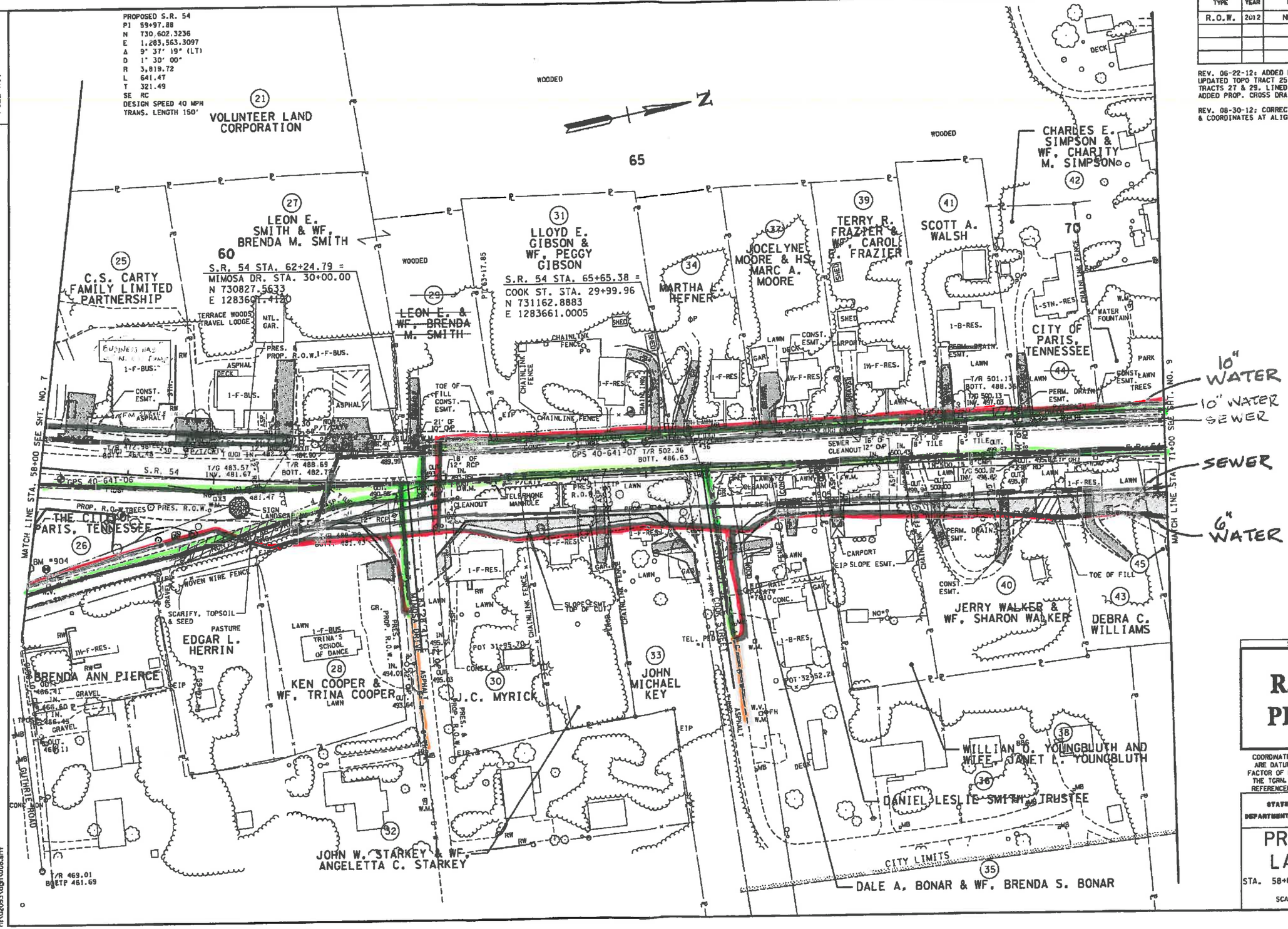
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	8

REV. 06-22-12: ADDED DRIVE TO TRACT 28; UPDATED TOPO TRACT 25; COMBINED TRACTS 27 & 29. LINED THRU TRACT 29; ADDED PROP. CROSS DRAIN

REV. 08-30-12: CORRECTED COOK ST STATION & COORDINATES AT ALIGNMENT CROSSING



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 58+00 TO STA. 71+00

SCALE: 1" = 50'

8/30/2012
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TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

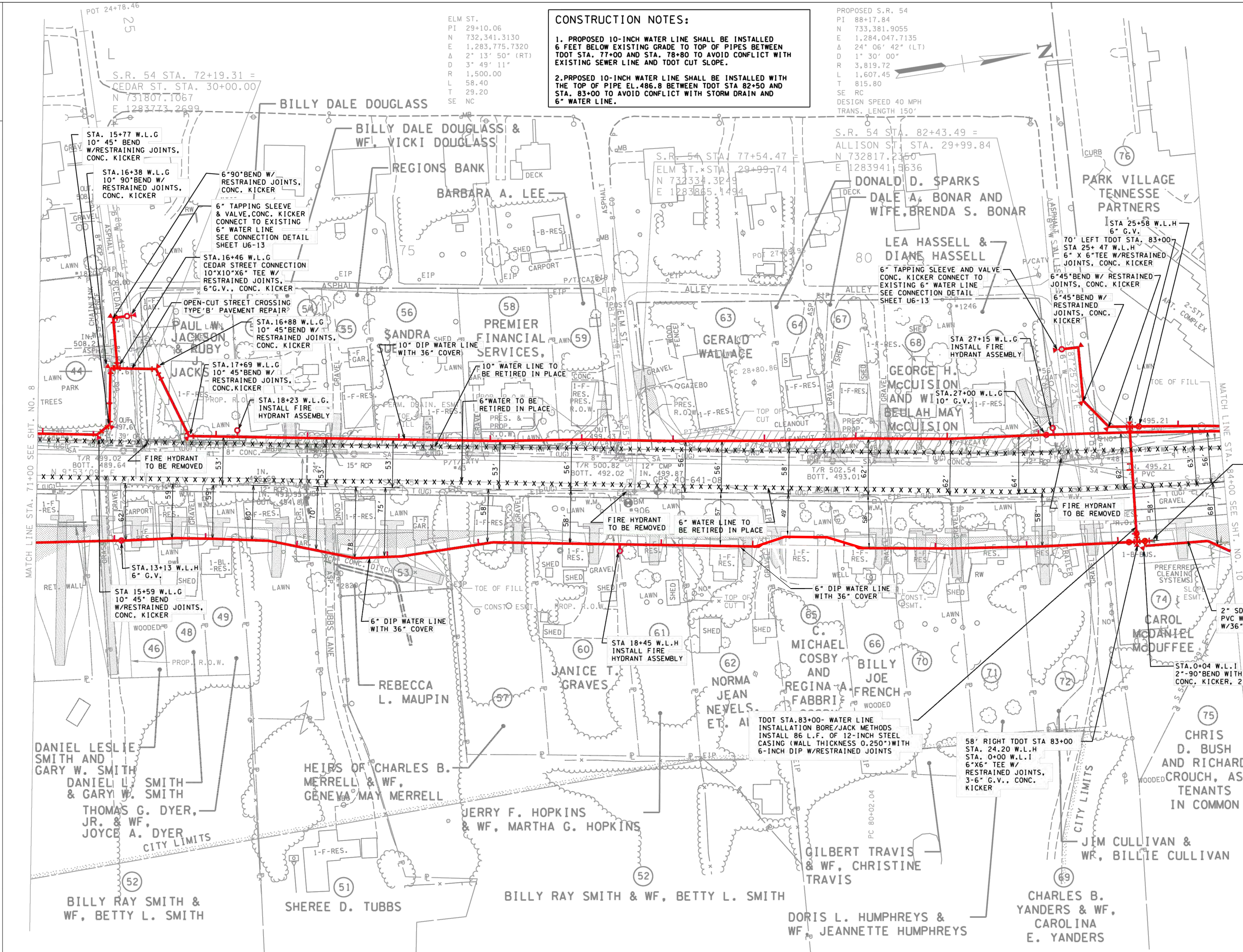
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	9
CONSTR.	2014	40003-3218-14	U6-9

REV 06-22-12: ADDED TRACT 45 INFO; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV 08-10-12: REVISED DRAIN. ESMT. TRACT 53

REV 08-30-12: CORRECTED ELM ST STATION & COORDINATES AT ALIGNMENT CROSSING; CORRECTED ALLISON ST. STATION & COORDINATES AT ALIGNMENT CROSSING

REV 11-05-12: CHANGED OWNER NAME TRACT 63; REVISED PROPERTY LINES ON TRACTS 62, 65, 66, 70, 71 & 72



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 71+00 TO STA. 84+00

SCALE: 1"= 50′

$$$$SYTIME$$$$$$
$$$$DGNSPEC$$$

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

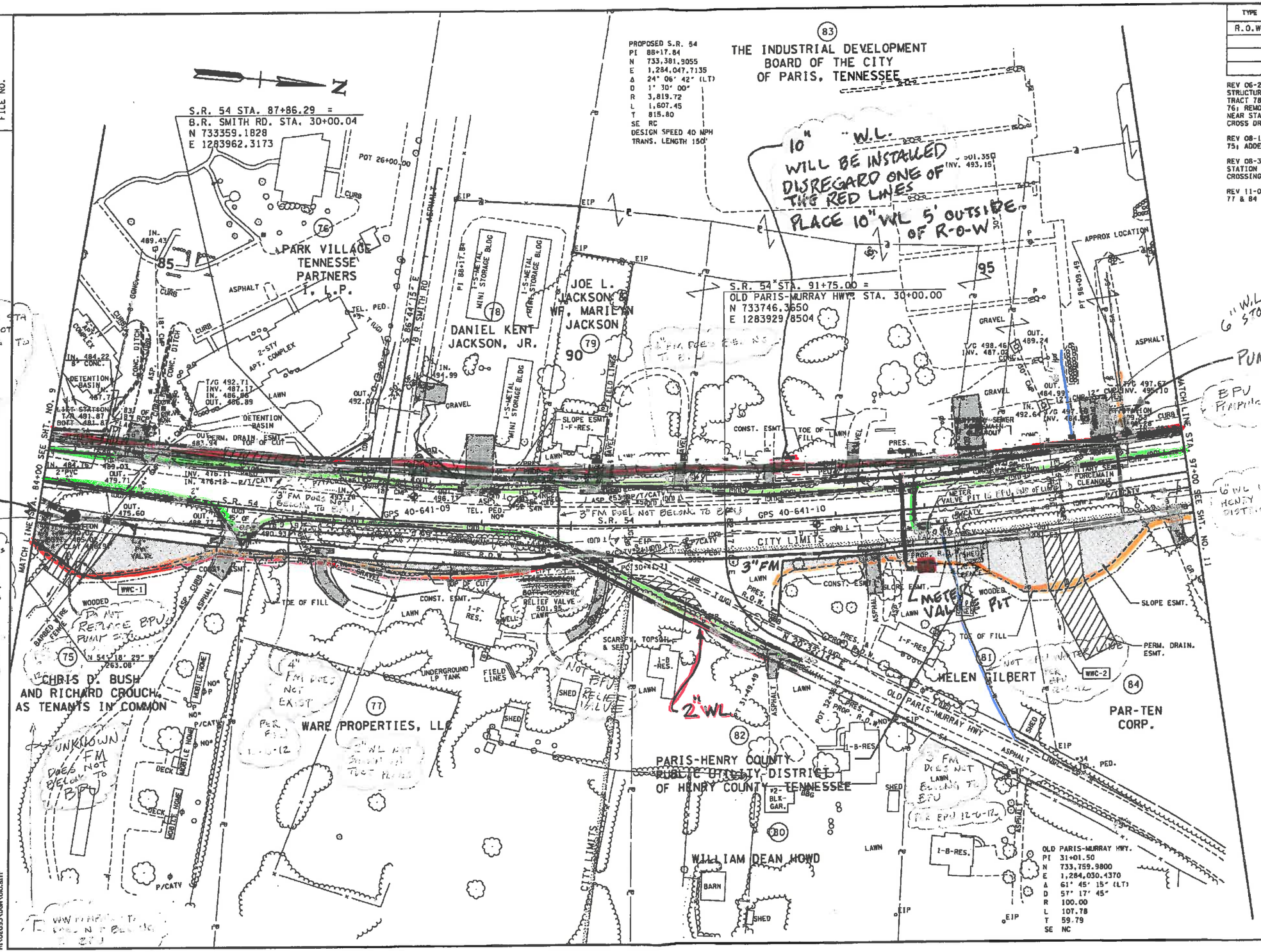
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	10

REV 06-22-12: REMOVED RESIDENTIAL STRUCTURES FROM TRACT 83; ADDED DRIVE TO TRACT 78; REVISED DRAINAGE ESMT. TRACT 76; REMOVED DRAIN. ESMTS. FROM TRACT 83 NEAR STA. 90+50 & 91+50 LT.; ADDED PROP. CROSS DRAINS & SPECIAL DITCHES

REV 08-10-12: REVISED DRAIN. ESMT. TRACT 75; ADDED DRAIN. ESMT. TRACT 76

REV 08-30-12: CORRECTED B.R. SMITH RD. STATION & COORDINATES AT ALIGNMENT CROSSING

REV 11-05-12: CHANGED OWNER NAME TRACTS 77 & 84



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 84+00 TO STA. 97+00

SCALE: 1" = 50'

11/6/2012
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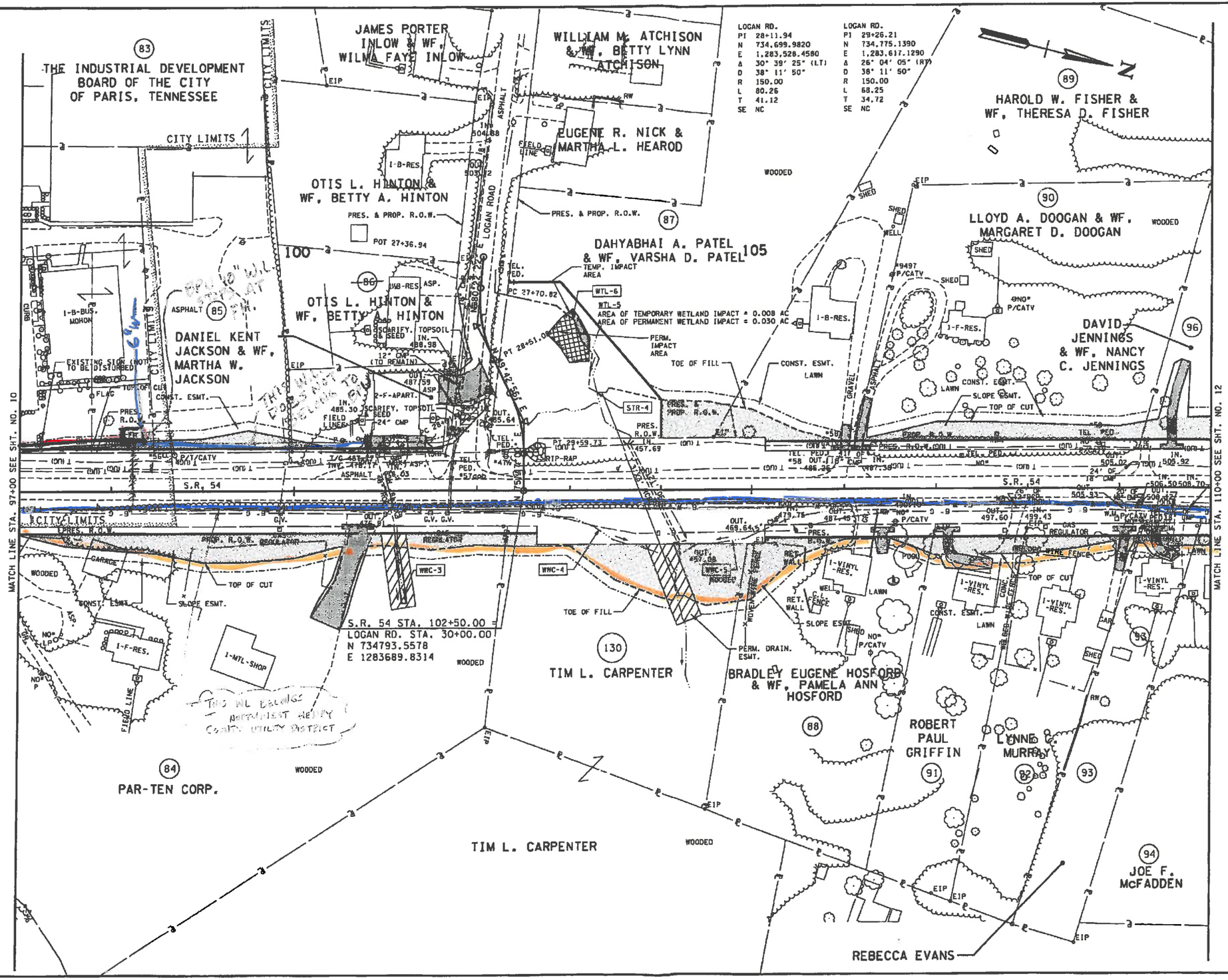
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	NHE-54(26)	11

REV 06-22-12: ADDED NOTE TO AVOID SIGN ON TRACT 83 & ADJUSTED CONST. ESMT.; UPDATED TOPO TRACT 84 & ADDED DRIVE; ADDED PROP. CROSS DRAINS

REV 08-10-12: REVISED DRAIN. ESMT. TRACTS 84 & 130; REMOVED DRAIN. ESMT. TRACT 85

REV 11-05-12: CHANGED OWNER NAME TRACTS 84 & 130



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 97+00 TO STA. 110+00

SCALE: 1" = 50'

11/6/2012
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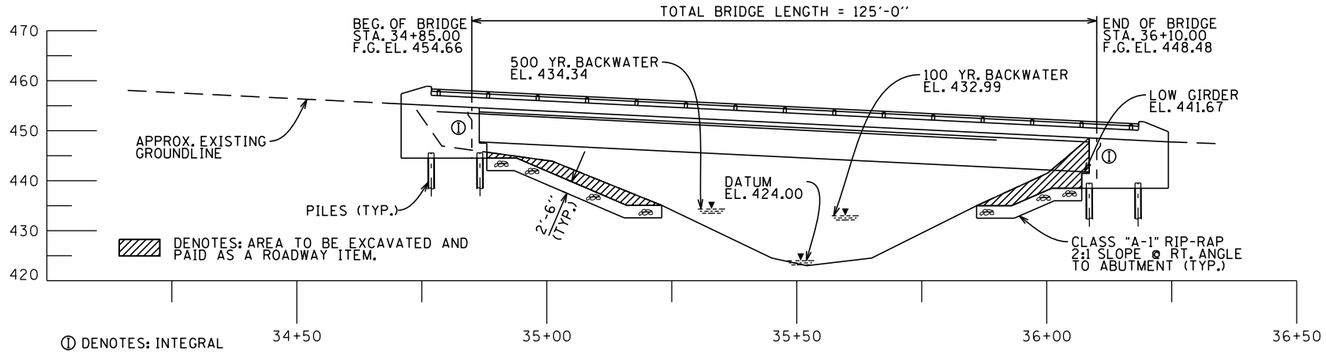
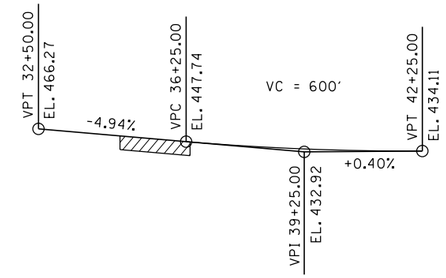


ELEVATION

SCALE: 1" = 15'-0"



GRADE SKETCH

STATE ROUTE 54

CONST. NO. 40003-1213-14

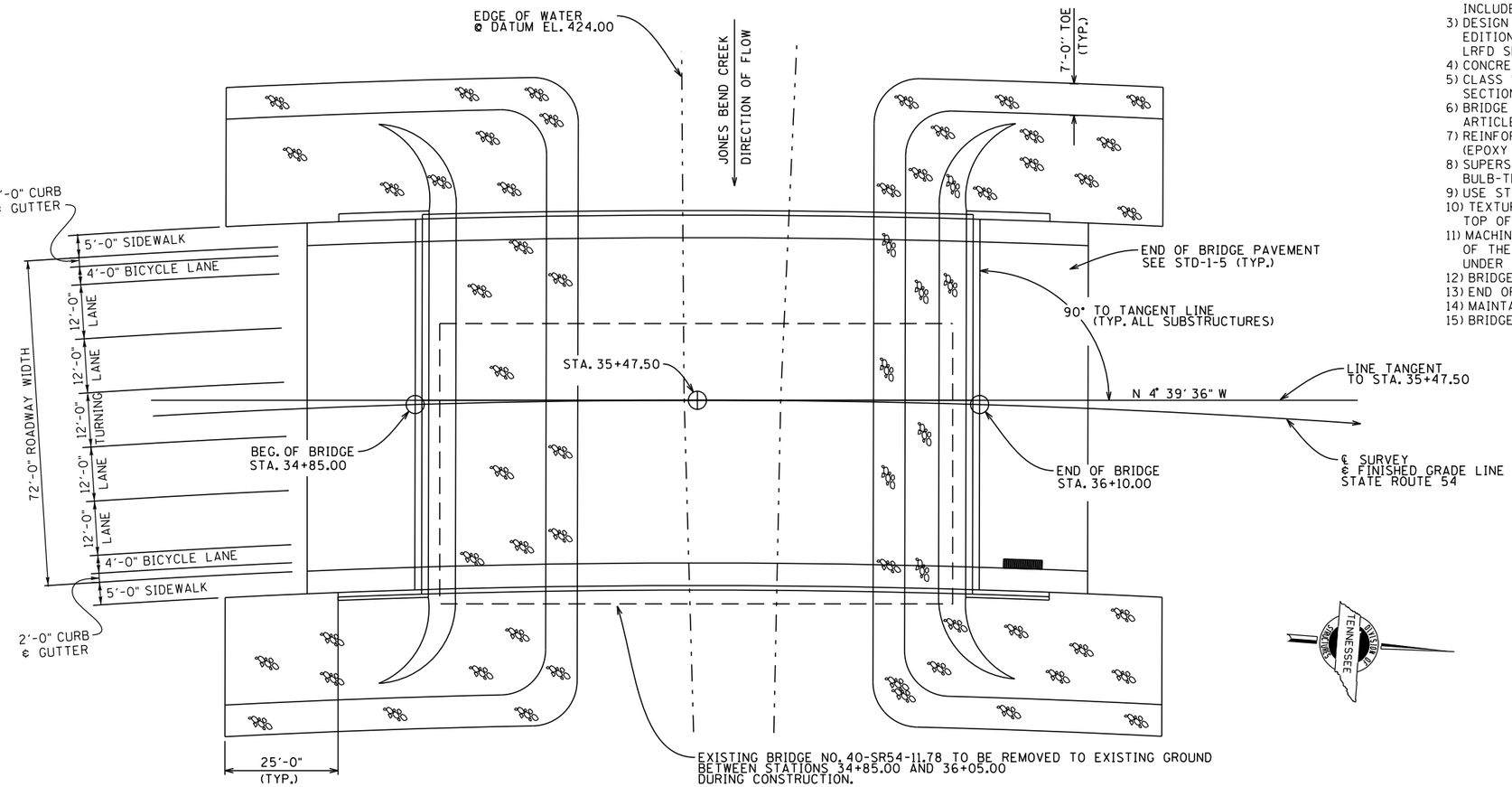
PROJECT NO.	YEAR	SHEET NO.
	1997	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

GENERAL NOTES

1) SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (MARCH 1, 2006 EDITION).
2) LOADING: HL-93 LIVE LOADING; SEISMIC CATERGORY C , WITH As=0.376, Sds=0.732, Sd1 =0.314 (1000 YEAR RETURN PERIOD). DEAD LOADS TO INCLUDE 35 LB/SQ FT FOR FUTURE OVERLAY
3) DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FIFTH EDITION, 2010, WITH INTERIMS, AND THE 2009 AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN, EDITION 1, WITH 2010 INTERIMS.
4) CONCRETE: CLASS 'A' (CAST IN PLACE) F'c= 3000 PSI EXCEPT AS NOTED OTHERWISE.
5) CLASS "D" CONCRETE FOR BRIDGE DECKS SHALL BE IN ACCORDANCE WITH SECTION 604 OF THE STANDARD SPECIFICATIONS.
6) BRIDGE DECK SURFACE FINISH: TO BE IN ACCORDANCE WITH NOTE "C" IN ARTICLE 604.23 OF THE STANDARD SPECIFICATIONS.
7) REINFORCING STEEL: TO BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. (EPOXY COAT ALL SLAB STEEL.)
8) SUPERSTRUCTURE: TO CONSIST OF 1 SPAN OF PRECAST CONCRETE BULB-TEE (BT-72) WITH COMPOSITE CONCRETE DECK SLAB.
9) USE STD-11-1 BRIDGERAIL WITH STRUCTURAL TUBING.
10) TEXTURE COATING: TO BE MOUNTAIN GREY (36440), EXCEPT INSIDE FACE AND TOP OF BRIDGERAIL TO BE WHITE (37886).
11) MACHINED RIP-RAP SHALL BE CLASS "A-1" IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS AND SHALL BE PAID FOR AS A ROADWAY ITEM UNDER ITEM 709-05.06 - TON.
12) BRIDGE DECK DRAINS ARE NOT REQUIRED.
13) END OF BRIDGE DRAINS ARE REQUIRED AS SHOWN IN PLAN VIEW.
14) MAINTAIN TRAFFIC BY STAGE CONSTRUCTION.
15) BRIDGE EXCAVATION BASED ON FINAL PROFILE AT ABUTMENTS.



PLAN

SCALE: 1" = 15'-0"

CURVE DATA

(STATE ROUTE 54)

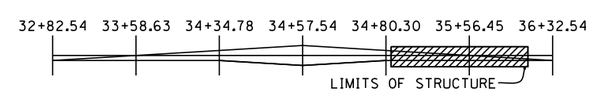
P.I. = 39+00.66
N = 728604.6760
E = 1282855.5994
▲ = 28°34'37" (RT)
D = 2°45'00"
R = 2083.48
L = 1039.16
T = 530.63
S.E. = 0.026 FT/FT
TRANSITION LENGTH = 175'-0"
DESIGN SPEED = 40 MPH

72'-0" ROADWAY WITH 2-5'-0" SIDEWALKS AND
STD-11-1 BRIDGERAIL WITH STRUCTURAL TUBING
2025 ADT = 12,230
DESIGN SPEED = 40 MPH

DENOTES 2'-0" X 8'-7" END OF BRIDGE DRAIN (SEE STD-1-6,7, AND 9).

HYDRAULIC DATA

DRAINAGE AREA = 5.60 mi²
DESIGN DISCHARGE (100 YR.) = 3,540 cfs
WATER AREA PROVIDED BELOW EL. 433.25 = 2,403.78² ft
100 YEAR VELOCITY = 8.99 fps
100 YEAR BRIDGE BACKWATER = 2.00 ft @ EL. 432.99 ft
ROADWAY OVERTOPPING ELEV. = 434.00 ft
500 YEAR DISCHARGE = 4,400 cfs @ EL. 434.34 ft



SUPER ELEVATION

BRIDGE NO. 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRELIMINARY LAYOUT
STATE ROUTE 54
OVER
JONES BEND CREEK
BRIDGE I.D. NO. 40SR0540021
STATION 34+85.00
LOG MILE 11.7
HENRY COUNTY
2011

DESIGNED BY N. BOYLE DATE 9/2011
DRAWN BY N. BOYLE DATE 9/2011
SUPERVISED BY KDM DATE 9/2011
CHECKED BY DATE

CORRECT Wayne G. Sieger
ENGINEER OF STRUCTURES

TEMPORARY MEDIAN BARRIER = 350 FT

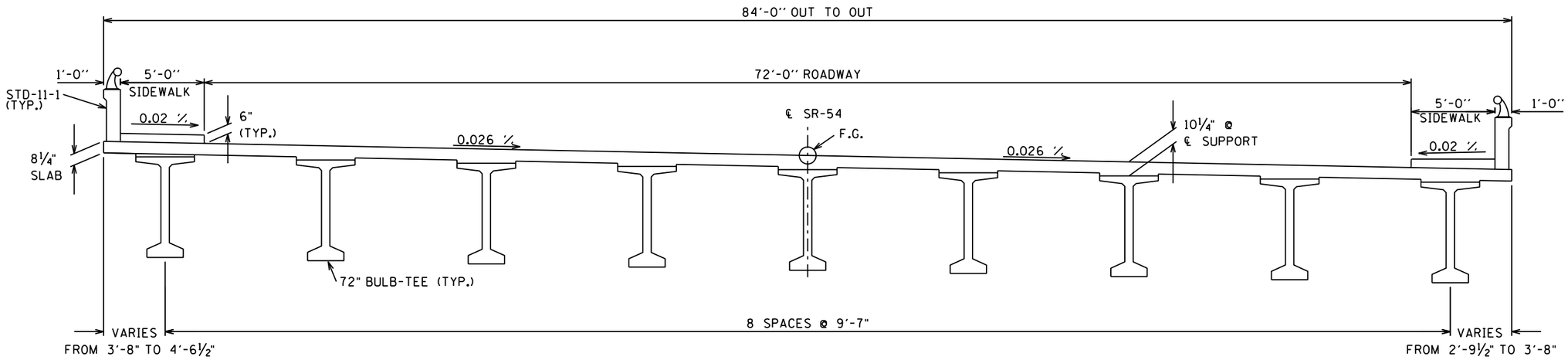
CLASS "A-1" RIP-RAP = 1943 TONS

P.E. NO. 40003-1213-14

PROJECT NO.	YEAR	SHEET NO.
NHE-54(26)	2014	

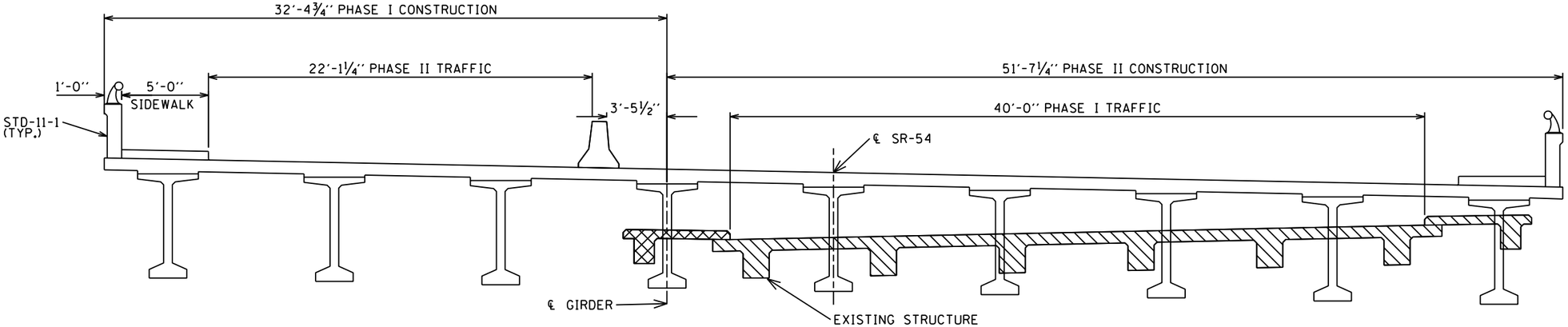
REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



TYPICAL CROSS SECTION

LOOKING FORWARD ON SURVEY
NOT TO SCALE



DENOTES: PHASE I REMOVAL

DENOTES: PHASE II REMOVAL

PHASED CONSTRUCTION CROSS SECTION

LOOKING FORWARD ON SURVEY
NOT TO SCALE

72'-0" ROADWAY WITH 2-5'-0" SIDEWALKS AND
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HENRY COUNTY
2014

DESIGNED BY	N. BOYLE	DATE	9/2011
DRAWN BY	N. BOYLE	DATE	9/2011
SUPERVISED BY	KDM	DATE	9/2011
CHECKED BY		DATE	

CORRECT Wayne A. Sayer
ENGINEER OF STRUCTURES