SEE SHEET NO. IA FOR INDEX

TENN.	YEAR	SHEET NO.
	2015	1
FED. AID PROJ. NO.		
STATE PROJ. NO.	71952-3543-04	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

PUTNAM COUNTY

MINE LICK CREEK RD.

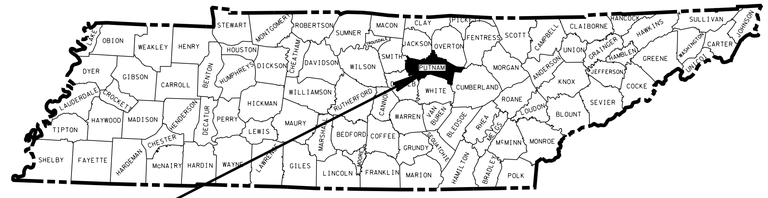
INDUSTRIAL ACCESS ROAD (MINE LICK CREEK RD.)
SERVING PROJECT VICTOR

THE CONTRACTOR SHALL COORDINATE CONTRUCTION OPERATIONS WITH THE INTERCHANGE PROJECT (NH-I-40-6(130)) AND THE BENNETT RD. SIA PROJECT (71952-3544-04).
NO LANE CLOSURES WILL BE ALLOWED ON THE INTERCHANGE OR MINE LICK CREEK RD. PROJECTS UNTIL 2 LANES OF THE PROPOSED BENNETT RD. SIA PROJECT (71952-3544-04) ARE FULLY OPERATIONAL BETWEEN THE ACADEMY SPORTS TRUCK ENTRANCE AND HIGHLAND PARK BLVD.

CONSTRUCTION

GRADE, DRAIN, PAVE & SIGN

STATE HWY. NO.:NONE F.A.H.S. NO.:NONE



END PROJ. CONST.
71952-3543-04
STA. 111+00.00
N:656728.6073
E:2090617.3993

N

SCALE: 1"= 2640'

0 0.5 1 1.5 MILES

BEG. ADJACENT PROJ. (CONST.)
NH-I-40-6(130);71100-3118-44

BEGIN PROJ. CONST.
71952-3543-04
STA. 72+47.00
N:654784.8354
E:2087311.5877

NO EXCLUSIONS
NO EQUATIONS

UNOFFICIAL SET
NOT FOR BIDDING

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

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

SPECIAL NOTES

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

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

TDOT TRANSPORTATION SPECIALIST SUPERVISOR II JIM BIVENS

DESIGNER WESLEY MATTINGLY, P.E. DESIGNED BY HMB PROFESSIONAL ENGINEERS, INC.

P.E. NO. 71952-1543-04

PIN NO. 120460.00

ROADWAY LENGTH	0.730 MILES (MINE LICK CREEK RD.)
BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	0.730 MILES

TRAFFIC DATA	
ADT (2015)(MINE LICK CREEK ROAD)	3670
ADT (2035)(MINE LICK CREEK ROAD)	3930
DHV (2035)(MINE LICK CREEK ROAD)	483
D	55-45
T (ADT)	6%
T (DHV)	4%
V (MINE LICK CREEK ROAD)	35 MPH

ORIG. SURVEY DATE 9/2014
SURVEY UPDATE 10/2014

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	1A

INDEX

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DETAIL SHEETS	2G
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SHEETS NOT INCLUDED: 2, 2B, 2C, 2I, 2K, 2L, 2O, 18-49

NO PROJECT COMMITMENTS SHEET INCLUDED IN THIS SET OF PLANS.

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS		
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-UD-3	09-05-96	UNDERDRAIN DETAILS
RD-UD-4	05-27-01	UNDERDRAIN LATERAL DETAILS
RD-UD-7	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES
RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD01-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
RD01-TS-1	10-15-02	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-1A		DESIGN STANDARDS FOR LOW-VOLUME LOCAL ROADS (ADT<=400)
DRAINAGE - CULVERTS AND ENDWALL		
D-PB-1	01-02-13	STANDARD DETAILS CLASS "B" BEDDING AND CULVERT EXCAVATION
D-PB-2	01-29-14	STANDARD DETAILS FOR PLASTIC PIPE INSTALLATION
D-PB-3		INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PE-18A	06-14-13	18” CONCRRETE ENDWALL CROSS DRAIN
D-PE-18B		18” CONCRRETE ENDWALL CROSS DRAIN
D-PG-3	04-15-97	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
D-PS-1	03-15-76	STRUTTING DETAILS FOR CORR. METAL & STRUCTURAL PLATE ROUND PIPE
ROADWAY AND PAVEMENT APPURTENANCES		
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS
SAFETY APPURTENANCES AND FENCE		
S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-CZ-1		CLEAR ZONE CRITERIA
S-PL-1		SAFETY PLAN AT ROADSIDE HAZARDS
S-PL-6	12-01-14	SAFETY PLAN SAFETY HARDWARE PLACEMENT
S-GR31-1	12-01-14	W-BEAM GUARDRAIL
S-GRT-3		TYPE 21 GUARDRAIL TERMINAL
S-GRT-3D		TYPE 21 GUARDRAIL TERMINAL (DETAILS)
S-GRT-3P		EARTH PAD FOR TYPE 21 TERMINAL

DWG. NO	REV.	DESCRIPTION
TRAFFIC CONTROL APPURTENANCES		
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-M-1	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-4	07-24-14	STANDARD INTERSECTION PAVEMENT MARKINGS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-17	07-19-13	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-19-13	STANDARD STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-32	10-29-13	TRAFFIC CONTROL PLAN SIGNAL LAYOUT FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-34	09-01-05	TRAFFIC CONTROL PLAN GENERAL NOTES FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
T-WZ-35	04-02-12	TRAFFIC CONTROL PLAN PAY ITEM AND SIGN DETAILS FOR TRAFFIC SIGNAL AT TWO LANE BRIDGE RECONSTRUCTION SITE
EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	08-01-12	ROCK CHECK DAM
EC-STR-6A	08-01-12	ENHANCED ROCK CHECK DAM
EC-STR-7	08-01-12	SEDIMENT TRAP WITH CHECK DAM
EC-STR-11	08-01-12	CULVERT PROTECTION TYPE 1
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-31	08-01-12	TEMPORARY DIVERSION CHANNEL
EC-STR-31A	04-01-08	TEMPORARY DIVERSION CHANNEL DESIGN
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-36	08-01-12	TURF REINFORCEMENT MAT FOR CHANNEL INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	2A

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	0.25
(1)	201-01	CLEARING AND GRUBBING	LS	0.25
(2)	202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	0.25
(3)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	8180
(4)	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	241
	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	237
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	1848
	203-04.02	STRIPPING & STOCKPILE TOPSOIL	C.Y.	281
(5)	203-06	WATER	M.G.	556
(6)	204-06.01	FLOWABLE FILL (GENERAL)	C.Y.	12
(7)	209-05	SEDIMENT REMOVAL	C.Y.	255
(7)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	1943
(7)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	5157
(7)	209-08.07	ROCK CHECK DAM PER	EACH	16
(7)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	19
(7)(8)	209-09.01	SANDBAGS	BAG	960
(7)	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	1
(9)	209-09.22	POLYACRYLAMIDE POWDER	LB.	344
(7)	209-10.20	TEMPORARY SEDIMENT TRAP	C.Y.	126
(7)(8)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	53
(7)	209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	24
(10)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	14166
(7)(11)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	268
	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	2126
	307-01.02	ASPHALT CEMENT (PG64-22) (BPMB-HM) GRADING A-S	TON	55
	307-01.03	AGGREGATE (BPMB-HM) GRADING A-S MIX	TON	1640
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	2061
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	26
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	103
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	14
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	254
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	937
	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	700
	607-03.30	18" PIPE CULVERT	L.F.	348
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	431
	611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	12
(29)	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	67

FOOTNOTES

(1) CLEARING AND GRUBBING AREA IS APPROX. 7.5 ACRES.

(2) INCLUDES REMOVAL OF 40' OF 12" CMP, 44' OF 12" CMP, 30' OF 18" CMP, 36' OF 18" CMP, 28' OF 12" CMP, AND EXISTING SIDE DRAINS AS INDICATED ON THE PLANS.

(3) 114 C.Y. FOR CONSTRUCTION EXITS. SEE SPECIAL NOTES SHEET 2I.

(4) INCLUDES 21 TONS FOR FILLING STR-1, 20 TONS FOR THE CULVERT AT STA. 90+03.81 & 200 TONS TO BE USED AS DIRECTED BY THE ENGINEER.

(5) INCLUDES 120 M.G. FOR EMBANKMENT AND 436 M.G. FOR AGGREGATE BASE MATERIAL.

(6) TO BE USED WHERE THE PROPOSED 18" CROSS DRAINS ALONG MINE LICK CREEK RD. CROSSES THE EXISTING 30" WATER LINE AS DIRECTED BY THE ENGINEER.

(7) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.

(8) FOR USE WITH TEMPORARY DIVERSION CHANNEL & SANDBAG BERMS.

(9) TO BE USED AS DIRECTED BY PROJECT ENGINEER.

(10) INCLUDES 1040 TONS FOR TRAFFIC CONTROL AS DIRECTED BY THE ENGINEER.

(11) INCLUDES 68 TONS FOR EPSC AND 200 TONS TO BE USED AS DIRECTED BY THE ENGINEER.

(12) INCLUDES 415 L.F. FOR BUFFER PROTECTION AND 250 FT TO BE USED AS DIRECTED BY PROJECT ENGINEER.

(13) TO BE USED FOR EROSION PREVENTION AND SEDIMENT CONTROL.

(14) INCLUDES 720 TONS FOR DITCHES, 280 TONS FOR EPSC, AND 7 TONS FOR CROSS DRAINS.

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	450
	705-04.04	GUARDRAIL TERMINAL (TYPE 21)	EACH	2
(7)(12)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	665
(7)(13)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	200
(7)(14)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	1007
(7)(15)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	11
(7)(16)	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	8
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	6488
	710-05	LATERAL UNDERDRAIN	L.F.	389
	710-06.12	LATERAL UNDERDRAIN ENDWALL (3:1)	EACH	33
	712-01	TRAFFIC CONTROL	LS	0.25
(17)(30)	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	98
(17)	712-05.01	WARNING LIGHTS (TYPE A)	EACH	8
(17)(30)	712-06	SIGNS (CONSTRUCTION)	S.F.	432
(17)	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	48
(17)	712-08.03	ARROW BOARD (TYPE C)	EACH	2
(17)	712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	4600
(17)	712-09.04	REMOVABLE PAVEMENT MARKING (STOP LINE)	L.F.	60
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	312
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	59
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	27
(18)	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	0.25
	713-15.04	INSTALLATION OF LETTERS & ARROWS	LS	0.25
(17)(30)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
(19)	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	4.40
(20)	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	108
	716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.	2.90
	717-01	MOBILIZATION	LS	0.25
(21)	730-40.02	TEMPORARY TRAFFIC SIGNAL SYSTEM	LS	1
(7)(22)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	2063
(7)(23)	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	158
(7)	740-11.02	TEMPORARY SEDIMENT TUBE (12IN)	L.F.	640
(7)	740-11.03	TEMPORARY SEDIMENT TUBE (18IN)	L.F.	10962
(7)	740-11.04	TEMPORARY SEDIMENT TUBE (20IN)	L.F.	4590
(9)(24)	801-01	SEEDING (WITH MULCH)	UNIT	4
(7)(9)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	279
(25)	801-02	SEEDING (WITHOUT MULCH)	UNIT	48
(13)	801-03	WATER (SEEDING & SODDING)	M.G.	33
(9)	801-07	SEED (SUPPLEMENTAL APPLICATION)	LB.	12
(9)	801-08	FERTILIZER (SUPPLEMENTAL APPLICATION)	TON	1
(28)	803-01	SODDING (NEW SOD)	S.Y.	16381
	805-01.01	TURF REINFORCEMENT MAT (CLASS I)	S.Y.	1084
(26)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	10332
(27)	806-02.03	PROJECT MOWING	CYCL	4

(15) INCLUDES 11 TONS FOR CROSS DRAINS.

(16) FOR THE CROSS DRAIN ON MINE LICK CREEK RD. AT STA. 98+58.

(17) FOR TRAFFIC CONTROL; USE AS DIRECTED.

(18) INCLUDES REMOVAL OF ANY CONFLICTING SIGN WITHIN THE PROJECT LIMITS AS DIRECTED BY THE ENGINEER.

(19) 0.14 L.M. FOR SIDE ROADS, AND 4.26 L.M. FOR TEMPORARY TRAFFIC CONTROL MARKINGS.

(20) INCLUDES 48 L.F. FOR USE ON INTERMEDIATE PAVEMENT LAYERS.

(21) TO BE USED ALONG MINE LICK CREEK ROAD AS DETAILED IN THE TRAFFIC CONTROL PLANS. INCLUDES PORTABLE STRUCTURE, OR WOOD POLES, GUYING DEVICES, LOOP WIRE OR OTHER VEHICLE DETECTION, SPAN WIRE, 5 SIGNAL HEADS WITH BACKPLATES, CONDUIT RISERS, CONTROLLERS AND CONTROLLER CABINET AND ANY OTHER SIGNAL EQUIPMENT REQUIRED TO HAVE A FULLY OPERATIONAL TRAFFIC SIGNAL SYSTEM. BID PRICE TO INCLUDE ELECTRICAL SERVICE CONNECTION IF NEEDED, OPERATION AND MAINTENANCE THROUGH ALL CONSTRUCTION PHASES, MOVING SIGNALS AS NEEDED, AND THE REMOVAL OF ALL TEMPORARY TRAFFIC SIGNAL SYSTEM AS DIRECTED BY THE ENGINEER.

(22) INCLUDES 1069 S.Y. FOR EPSC, 975 S.Y. FOR RIP-RAP DITCHES, AND 19 S.Y. FOR CROSS DRAINS.

(23) INCLUDES 125 S.Y. FOR FILLING EXISTING STR-1, AND 33 S.Y. FOR THE CULVERT AT STA. 90+03.81.

(24) INCLUDES 4 UNITS FOR SCARIFIED AREAS.

(25) TO BE USED WITH EROSION CONTROL BLANKET TYPE II.

(26) INCLUDES 4281 S.Y. FOR MISCELLANEOUS AREAS AND 6051 S.Y. FOR DITCHES AS DIRECTED BY THE ENGINEER. (SEE NOTE 28)

(27) SHALL INCLUDE LITTER AND DEBRIS PICK UP.

(28) TO BE USED FOR FINAL STABILIZATION OF ALL SLOPES. WHEN THE PLANS CALL FOR EROSION CONTROL BLANKET (TYPE II) FOR DITCHLINING, SODDING (NEW SOD) MAY BE ALLOWED AS AN ALTERNATIVE AS DIRECTED BY THE ENGINEER. INCLUDES 6051 S.Y. FOR DITCHES AND 10330 S.Y. FOR EPSC (SLOPES).

(29) INCLUDES 30 LF FOR EPSC AND 37 LF FOR TRAFFIC CONTROL.

(30) TOTAL QUANTITY FOR ITEM INCLUDES ONLY THE MAXIMUM REQUIRED FOR ANY ONE PHASE. INCLUDES RELOCATION.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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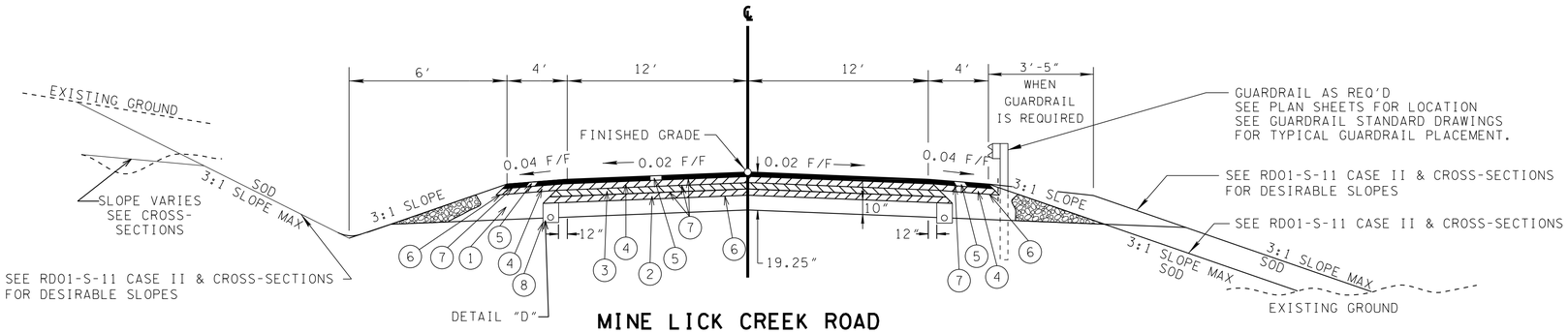
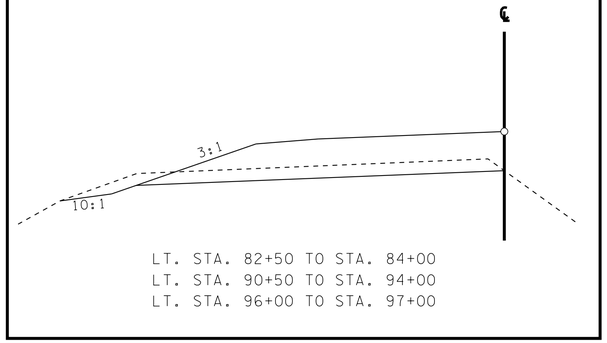
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	2D
CONST.	2015	71952-3543-04	2D



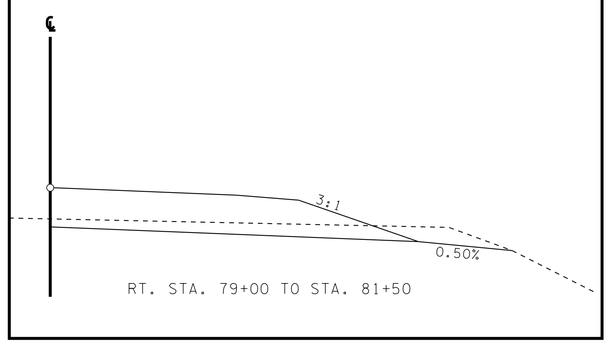
MINE LICK CREEK ROAD
TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-1)

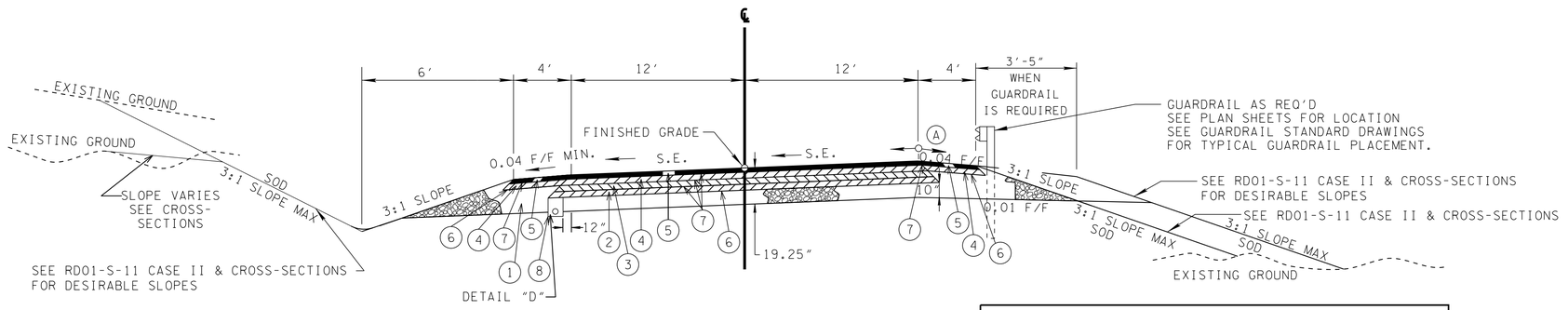
STA. 72+47.00 TO STA. 87+76.88
STA. 99+95.32 TO STA. 111+00.00



LT. STA. 82+50 TO STA. 84+00
LT. STA. 90+50 TO STA. 94+00
LT. STA. 96+00 TO STA. 97+00



RT. STA. 79+00 TO STA. 81+50



MINE LICK CREEK ROAD
SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-1)

STA. 87+76.88 TO STA. 99+95.32

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

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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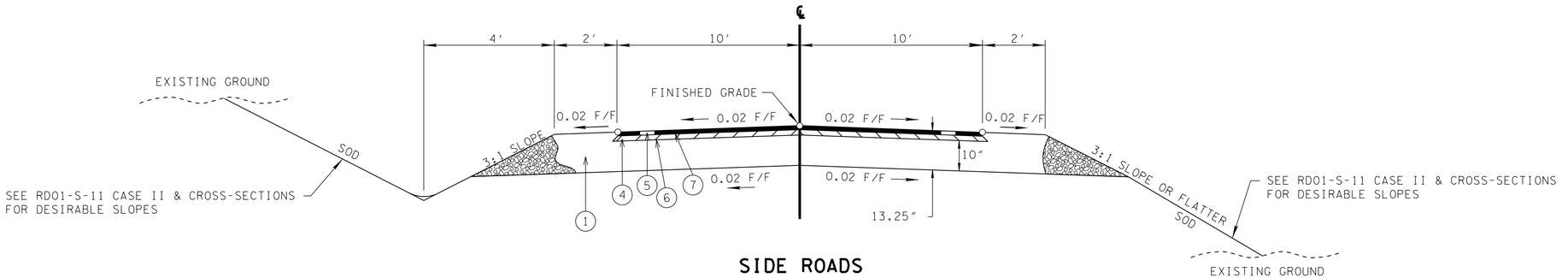
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	2E
CONST.	2015	71952-3543-04	2E



SIDE ROADS
TANGENT SECTION

(BASED ON STD. DWG. RD01-TS-1A)

HEARTLAND LANE FROM STA. 9+56.00 TO STA. 9+88.00
MIKE MAXWELL RD. FROM STA. 19+10.00 TO STA. 19+87.85
OLD STEWART RD. FROM STA. 30+12.00 TO STA. 30+40.00

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DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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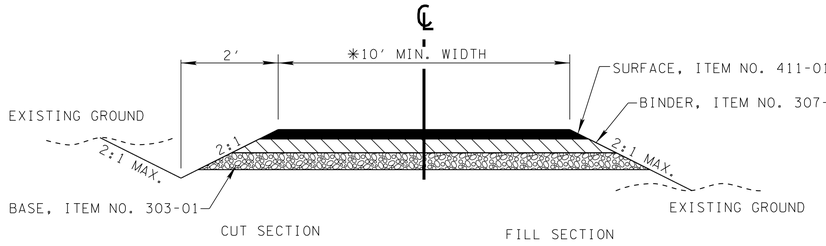
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	2F
CONST.	2015	71952-3543-04	2F

NOTE:
1. DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER.
2. ALL RADII TO BE 15' UNLESS NOTED OTHERWISE.
3. SEE SHEET 3 FOR DRIVEWAY NOTES.



SURFACE - 1¼"
BINDER - 2"
BASE - 4"

10' MIN. PRIVATE DRIVE OR RESIDENTIAL
* 16' MIN. WIDTH FOR FIELD ENTRANCES
40' WIDTH BUSINESS ENTRANCE

TYPICAL SECTION

PRIVATE DRIVE TO BUSINESS,
FIELD, OR RESIDENTIAL PROPERTY

PROPOSED PAVEMENT SCHEDULE	
(1) MINERAL AGGREGATE BASE - (VARIES) 2.03 TONS/C.Y. ITEM 303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D" (SEE TYPICAL SECTIONS FOR DEPTHS)	(6) PRIME COAT ITEM 402-01 BITUMINOUS MATERIAL FOR PRIME COAT (P.C.) 0.30-0.35 GAL/SY ITEM 402-02 AGGREGATE FOR COVER MATERIAL (P.C.) 8-12 LBS/SY
(2) BITUMINOUS PLANT MIX BASE (HOT MIX)(3") APPROX. 270 LB/S.Y. ITEM 307-01.02 ASPHALT CONCRETE MIX (PG 64-22)(BPMB-HM) GRADING "A-S" ITEM 307-01.03 AGGREGATE (PG 64-22)(BPMB-HM) GRADING "A-S" MIX	(7) TACK COAT ITEM 403-01 BITUMINOUS MATERIAL FOR TACK COAT (T.C.) 0.07 GAL/SY
(3) BITUMINOUS PLANT MIX BASE (HOT MIX)(3") APPROX. 345 LB/S.Y. ITEM 307-01.01 ASPHALT CONCRETE MIX (PG 64-22)(BPMB-HM) GRADING "A"	(8) UNDERDRAINS ITEM 710-02 AGGREGATE UNDERDRAINS (WITH PIPE)
(4) BITUMINOUS PLANT MIX BASE (HOT MIX)(2")APPROX. 226 LB/S.Y. ITEM 307-01.08 ASPHALT CONCRETE MIX (PG 64-22)(BPMB-HM) GRADING "B-M2"	
(5) ASPHALTIC CONCRETE SURFACE (HOT MIX)(1.25") APPROX. 132.5 LB/S.Y. ITEM 411-01.10 ACS MIX (PG 64-22) GRADING "D"	

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TYPICAL SECTIONS

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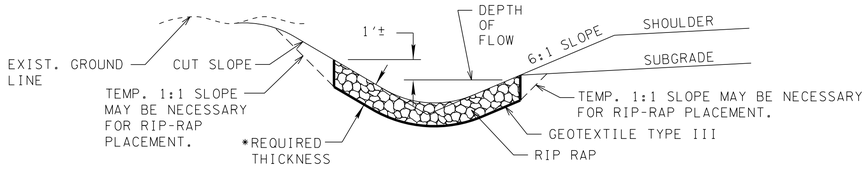
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	2G
CONST.	2015	71952-3543-04	2G

NOTE: EXC. ASSOCIATED WITH THE TEMP. SLOPE WILL BE CONSIDERED INCIDENTAL TO RIP-RAP IN PLACE.



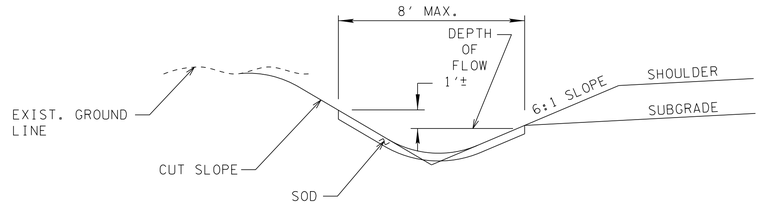
TYPICAL CUT DITCH W/ RIP-RAP LINING

* 1.5' FOR CLASS "A-1" RIP-RAP
2.5' FOR CLASS "B" RIP-RAP
3.5' FOR CLASS "C" RIP-RAP

NOTE: EXC. ASSOCIATED WITH THE TEMP. SLOPE WILL BE CONSIDERED INCIDENTAL TO RIP-RAP IN PLACE.

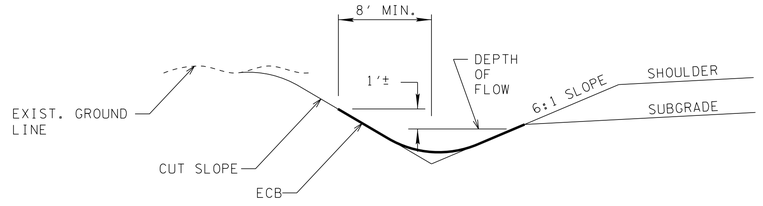
TYPICAL TOE OF FILL DITCH W/ RIP-RAP LINING

* 1.5' FOR CLASS "A-1" RIP-RAP
2.5' FOR CLASS "B" RIP-RAP
3.5' FOR CLASS "C" RIP-RAP

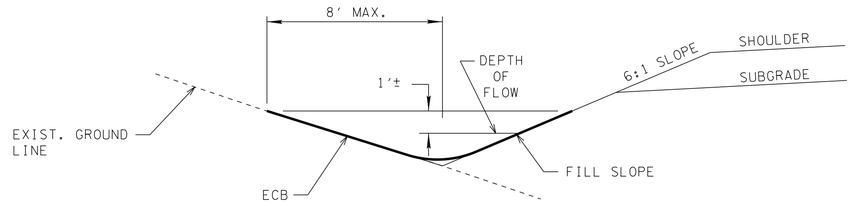


TYPICAL CUT DITCH W/ SOD

1. IN CUT DITCHES (NOT ROCK) ALL TREATMENTS ARE TO COME TO SUBGRADE.
2. TOPSOIL IS TO BE PLACED ON ALL SLOPES (NOT ROCK) ACCORDING TO SPECIFICATIONS.
3. SOD DITCHES ARE NOT SPECIFIED IN THE PLANS, BUT MAY BE USED FOR SPOT TREATMENTS AS DIRECTED BY THE PROJECT ENGINEER.



TYPICAL CUT DITCH W/ ECB LINING



TYPICAL TOE OF FILL DITCH W/ ECB LINING

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DITCH DETAILS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	2H

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE 0F THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

(2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.

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

SEEDING AND SODDING

(1) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEMS 203-04 AND/OR 203-07. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 801-01.

(2) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.

(3) ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

(4) ITEM NO. 801-02, SEEDING (WITHOUT MULCH) AND EROSION CONTROL BLANKET, SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE ENGINEER.

GUARDRAIL

(1) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

(2) IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE A LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL.

(3) GUARDRAIL IS TO BE COMPLETE IN PLACE BEFORE THE MAINLINE ROADWAY IS OPENED TO TRAFFIC.

DRAINAGE

(1) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

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

(3) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).

(4) WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT WILL BE MADE DUE TO SUCH CHANGE.

(5) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC, AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

UTILITIES

(1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY CONTACTING THE UTILITY COMPANIES INVOLVED. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC., AT 1-800-351-1111 AS REQUIRED BY TCA 65-31-106 WILL BE REQUIRED.

(2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR IT'S REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.

(3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.

(5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106.

FENCING

(1) LOCATION OF THE FENCE SHALL BE ONE FOOT INSIDE THE RIGHT-OF-WAY EXCEPT WHERE SHOWN ON THE PLANS.

(2) FENCES SHALL BE TURNED IN AT DRAINAGE STRUCTURES, STOCK PASSES AND BRIDGES WHERE DIRECTED BY THE ENGINEER SO AS TO ABUT WINGWALLS AND/OR ABUTMENTS.

(3) THE CONTRACTOR SHALL GIVE THE AFFECTED PROPERTY OWNERS TWO WEEKS NOTICE PRIOR TO CUTTING FENCES.

(4) THE CONTRACTOR SHALL BE REQUIRED TO INSTALL ACCESS CONTROL FENCES PRIOR TO CUTTING EXISTING STOCK FENCES IN AREAS UTILIZED BY DOMESTIC LIVESTOCK OR OTHER AREAS AS DIRECTED BY THE ENGINEER.

MISCELLANEOUS

(1) ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.

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

(3) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS

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

FINAL PAVEMENT MARKING IF 4" SPRAY THERMOPLASTIC (60 mil) IS USED

(5) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" SPRAY THERMOPLASTIC (60 mil) INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-13.01, SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

FINAL PAVEMENT MARKING IF REFLECTORIZED PAINT IS USED

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

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(7) THE PAVEMENT MARKING ON THE LANE SHIFTS FOR CENTERLINES AND EDGE LINES WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, PAINTED PAVEMENT MARKING (4" LINE), LIN. MI.

(8) BEFORE OPENING THE LANE SHIFT TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXISTING CONFLICTING MARKINGS AND RAISED PAVEMENT MARKERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN ITEM NO. 712-01 TRAFFIC CONTROL, LUMP SUM.

PAVEMENT

PAVING

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

(2) THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	2J

GENERAL NOTES CON'T.

PAVEMENT

PAVING

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

GRADED SOLID ROCK

(1) THE ROCK FILL (GRADED SOLID ROCK) MATERIAL SHALL CONSIST OF SOUND, NON-DEGRADABLE LIMESTONE OR SANDSTONE WITH A MAXIMUM SIZE OF 3'-0". AT LEAST 50% (BY WEIGHT) OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 1'-0" AND 3'-0" IN DIAMETER, AND NO GREATER THAN 10% (BY WEIGHT) SHALL BE LESS THAN 2" IN DIAMETER. THE MATERIAL SHALL BE ROUGHLY EQUIDIMENSIONAL; THIN, SLABBY MATERIALS WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL BE REQUIRED TO PROCESS THE MATERIAL WITH AN ACCEPTABLE MECHANICAL MEANS (A SCREENING PROCESS CAPABLE OF PRODUCING THE REQUIRED GRADATION). THE ROCK SHALL BE APPROVED BY A REPRESENTATIVE OF THE DIVISION OF MATERIALS AND TESTS BEFORE USE.

(2) THIS GRADED SOLID ROCK MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING FIVE FEET IN DEPTH.

SIGNING

(1) THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.

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

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

(4) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND, OR BROWN BACKGROUND.

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

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

(2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

(3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

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

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

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

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

(8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED AND THE VERTICAL PANELS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

SPECIAL NOTES

GRADING

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

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

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

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

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

PAVEMENT

RESURFACING

(1) TRAFFIC WILL BE ALLOWED TO TEMPORARILY DRIVE ON THE MILLED SURFACE OF THE ROADWAY UNDER THE FOLLOWING CONDITIONS ONLY:

A. THE MILLED SURFACE IS FINE TEXTURED. THE FINE TEXTURE SHALL BE OBTAINED BY A MILLING MACHINE UTILIZING A MILLING HEAD WITH TEETH SPACING 3/8" OR LESS OPERATING AT LESS THAN 80 FEET PER MINUTE.

B. THE SURFACE SHALL BE SWEPT AND CLEANED OF ALL LOOSE MATERIALS.

C. THE DIFFERENCE IN ELEVATION BETWEEN THE MILLED SURFACE AND THE ADJACENT LANE SHALL NOT EXCEED 1 1/2 INCHES.

D. THE MILLED SURFACE SHALL BE PAVED WITHIN 48 HOURS.

E. RAIN OR INCLEMENT WEATHER IS NOT EXPECTED OR FORECASTED WITHIN 48 HOURS AFTER MILLING.

F. ALL APPLICABLE SIGNING IS INSTALLED IN ACCORDANCE WITH THE MUTCD SIGNING SHALL INCLUDE MOTORCYCLE WARNING SIGNS (TN-64) PLACED IN ADVANCE OF ANY MILLED AREAS.

G. IF RAVELING OR DETERIORATION OF THE MILLED SURFACE IS OCCURRING WHILE TRAFFIC IS DRIVING ON THE MILLED SURFACE, THEN THIS PRACTICE WILL NOT BE ALLOWED AND PAVING SHALL BE COMPLETED IMMEDIATELY AFTER MILLING.

H. ONLY ONE LANE IN EACH DIRECTION SHALL HAVE A MILLED SURFACE AT ONE TIME.

EROSION PREVENTION AND SEDIMENT CONTROL

NPDES

(1) REFER TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN, SHEET 11, FOR NOTES REGARDING SEASONAL WORK LIMITATION OR LIMITATION ON THE TOTAL AREA OF EXPOSED SOIL.

ENVIRONMENTAL

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

ECOLOGY

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

(2) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE WILL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED BRIDGE WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS WHICH MUST BE FOLLOWED.

(3) ALL BRIDGE PROJECTS WITH THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT IDENTIFIED MUST HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER THE STREAM.

SEEDING AND SODDING

(1) ITEM NO. 803-01, SODDING (NEW SOD) SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE ENGINEER.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	2M

PAVEMENT QUANTITIES

LOCATION	PAY ITEMS									
	303-01 (TON)	307-01.01 (TON)	307-01.02 (TON)	307-01.03 (TON)	307-01.08 (TON)	402-01 (TON)	402-02 (TON)	403-01 (TON)	411-01.07 (TON)	411-01.10 (TON)
MINE LICK CREEK RD.	12346	2126	55	1640	1808	25	100	13	254	789
SIDE ROADS	404				62	1	3	1		36
DRIVEWAYS	376				191					112
TOTALS	**13126**	**2126**	**55**	**1640**	**2061**	**26**	**103**	**14**	**254**	**937**

TRAFFIC CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	M.U.T.C.D. NO.	UNIT	SIGNS S.F. / EACH	SIZE	PHASE 1	PHASE 2	TOTAL	REMARKS
		END ROAD WORK	G20-2		8	48"X24"	5	5	40.0	
		ROAD WORK 1/2 MILE	W20-1		16	48"X48"	2	2	32.0	
		ROAD WORK 1500 FT	W20-1		16	48"X48"	2	2	32.0	
		ROAD WORK 1000 FT	W20-1		16	48"X48"	2	2	32.0	
		ROAD WORK 500 FT	W20-1		16	48"X48"	2	2	32.0	
		ROAD WORK AHEAD	W20-1		16	48"X48"	3	3	48.0	
		ONE LANE ROAD 1500 FT	W20-4		16	48"X48"	2	2	32.0	
		FLAGGER	W20-7		16	48"X48"	2	2	32.0	
		SUPPLEMENTAL SPEED	W13-1P		4	24"X24"		4	16.0	
		BE PREPARED TO STOP	W3-4		9	36"X36"		2	18.0	
		SUPPLEMENTAL PLATE 1000 FT	W16-2P		3	24"X18"		2	6.0	
		SIGNAL AHEAD (SYMBOL)	W3-3		9	36"X36"		5	45.0	
		STOP HERE ON RED	R10-6		6	24"X36"		2	12.0	
		STAY IN LANE TO EXT. GREEN	R10-6 (MOD.)		8.75	30"X42"		2	17.5	
		LANE SHIFT (SYMBOL)	W1-4aR		6.25	30"X30"		2	12.5	
		MAXIMUM X MINUTE RED			14	42"X48"		2	12.5	
		MAINTAIN XX MPH SPEED			10.5	42"X36"		2	12.5	
(1)(5)	712-06	**TOTALS FOR SIGNS**		S.F.					432	
	621.03.02	18" TEMPORARY DRAINAGE PIPE		L.F.			37		37	
(1)	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)		EACH			98	98	98	
(4)	712-05.01	WARNING LIGHTS (TYPE A)		EACH				8	8	
(4)	712-07.03	TEMPORARY BARRICADES (TYPE III)		L.F.				48	48	
	712-08.03	ARROW BOARD (TYPE C)		EACH				2	2	
(1)(2)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT		EACH				2	2	
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)		L.M.				4.4	4.4	
	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)		L.F.				60	60	
	712-09.04	REMOVABLE PAVEMENT MARKING (STOP LINE)		L.F.				60	60	
	712-09.01	REMOVABLE PAVEMENT MARKING LINE		L.F.				4600	4600	
(3)	730-40.02	TEMPORARY TRAFFIC SIGNAL SYSTEM		LS				1	1	

(1) TOTAL QUANTITY FOR ITEM INCLUDES ONLY THE MAXIMUM REQUIRED FOR ANY ONE PHASE. INCLUDES RELOCATION.

(2) TO BE USED AS DIRECTED BY PROJECT ENGINEER.

(3) TEMPORARY TRAFFIC SIGNAL SYSTEM SHALL INCLUDE 5 SIGNAL HEADS.

(4) FOR USE WITH THE TEMPORARY TRAFFIC SIGNAL SETUP AS DIRECTED BY THE ENGINEER.

(5) BID AMOUNT FOR FLAGGER SIGNS SHALL INCLUDE RESETTING THE SIGNS FOR ALL ADDITIONAL PHASES.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	2N

DITCHES

ROAD	STATION		SIDE			SLOPE			TYPE	WIDTH OF TREATMENT (L.F.)	CLASS A-1 RIP-RAP 709-05.06 (TONS)	ECB TYPE II 805-12.02 (S.Y.)	TRM CL. I 805-01.01 (S.Y.)	GEOTEXTILE TYPE III 740-10.03 (S.Y.)	REMARKS
	FROM	TO	LT	TYPE	RT	FORE (H/V)	BACK (H/V)	DEPTH OF FLOW (FT.)							
MINE LICK CREEK RD.	72+47	74+50	X			3	3	0.6	SP. V.	12		267			
MINE LICK CREEK RD.	75+00	76+22	X			4	3	1.0	V	16		217			
MINE LICK CREEK RD.	76+22	81+00	X			4	3	0.8	V	16		850			
MINE LICK CREEK RD.	81+00	82+25	X			4	3	0.8	SP. V.	16		223			
MINE LICK CREEK RD.	84+30	85+15	X			4	3	1.0	SP. V.	16		152			
MINE LICK CREEK RD.	85+36	86+00	X			4	3	1.0	V	16		114			
MINE LICK CREEK RD.	86+00	88+57	X			4	3	1.0	SP. V.	16		457			
MINE LICK CREEK RD.	88+57	90+20	X			4	3	1.3	SP. V.	20		363			
MINE LICK CREEK RD.	90+20	94+50	X			4	3	0.6	SP. V.	12			574		
MINE LICK CREEK RD.	94+50	95+00	X			4	3	0.6	V	12			67		
MINE LICK CREEK RD.	95+25	98+57	X			4	3	0.6	SP. V.	12			443		
MINE LICK CREEK RD.	98+57	100+00	X			4	3	0.6	SP. V.	12		191			
MINE LICK CREEK RD.	100+25	101+48	X			4	3	0.5	V	12		164			
MINE LICK CREEK RD.	101+48	102+05	X			4	3	0.5	SP. V.	12		76			
MINE LICK CREEK RD.	102+05	102+48	X			4	3	0.5	SP. V.	12		58			
MINE LICK CREEK RD.	102+70	104+30	X			4	3	0.5	V	12		214			
MINE LICK CREEK RD.	104+30	105+30	X			4	3	1.1	V	16		178			
MINE LICK CREEK RD.	108+00	108+50	X			3	3	0.5	V	12		67			
MINE LICK CREEK RD.	109+05	111+50	X			3	3	0.6	V	12		327			
MINE LICK CREEK RD.	72+47	73+50			X	3	4	0.7	SP. V.	16		178			
MINE LICK CREEK RD.	73+50	75+00			X	3	4	0.7	V	16		267			
MINE LICK CREEK RD.	89+71	95+00			X	3	4	0.5	SP. V.	11	720			975	
MINE LICK CREEK RD.	95+00	95+70			X	3	4	0.9	SP. V.	16		124			
MINE LICK CREEK RD.	100+30	101+00			X	3	4	0.9	SP. V.	16		124			
MINE LICK CREEK RD.	101+70	105+00			X	3	4	0.7	V	12		440			
MINE LICK CREEK RD.	105+00	106+05			X	3	4	0.7	SP. V.	12		140			
MINE LICK CREEK RD.	106+05	106+50			X	3	4	0.5	SP. V.	12		60			
MINE LICK CREEK RD.	106+50	111+00			X	3	4	0.9	SP. V.	16		800			
TOTALS											**720**	**6051**	**1084**	**975**	

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DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	2P

PROPOSED GUARDRAIL

SHEET NO.	LOCATION	SIDE		STATION		GUARDRAIL SINGLE TYPE 2 705-02.02 (L.F.)	TERMINAL ANCHORS TYPE 21 705-04.04 (EACH)	REMARKS
		LT	RT	FROM	TO			
5A	MINE LICK CREEK RD.		X	92+96	98+03	450.00	2	
TOTALS						**450**	**2**	

ESTIMATED GRADING QUANTITIES

LOCATION	ROAD & DRAINAGE EXC. (UNCL.) 203-01 COMMON (C.Y.)	EMBANKMENT COMMON (C.Y.)	BORROW EXCAVATION 203-03 (C.Y.)	TOPSOIL FROM EXC. 203-01 (C.Y.)	PLACING & SPREADING TOPSOIL 203-04 **(C.Y.)	PREBENCHING 203-01 (C.Y.)	TOPSOIL FROM EMB. 203-04.02 (C.Y.)	REMARKS
MINE LICK CREEK RD.	5755	5175		1567	1848		281	
HEARTLAND LN.	86							
MIKE MAXWELL RD.	18	119						
OLD STEWART RD.	45	2						
DRIVEWAYS	297	401						
*EROSION CONTROL	114							
TOTALS	**6315**	**5697**	**237**	**1567**	**1848**	**298**	**281**	

*114 C.Y. FOR TEMPORARY CONSTRUCTION EXISTS.
**1567 C.Y. FROM EXC., AND 281 C.Y. FROM EMB.

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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	20

SIDE DRAIN TABULATION

ROAD	STATION	LOCATION		DESCRIPTION	SURFACE WIDTH	RCP CLASS III OR CMP 16 GA. OR HDPE OR PVC (L.F.) FILL HEIGHT < OR = 10 FT.	REMARKS
		LT	RT		(L.F.)	18" 607-39.02	
MINE LICK CREEK RD.	76+22.00	X		PVT. DR.	12	30	
MINE LICK CREEK RD.	76+33.85		X	BUS. ENT.	24		NO S.D. REQUIRED
MINE LICK CREEK RD.	77+00.40	X		PVT. DR.	10	30	
MINE LICK CREEK RD.	78+24.50	X		PVT. DR.	12	30	
MINE LICK CREEK RD.	80+32.00	X		PVT. DR.	10	32	
MINE LICK CREEK RD.	81+62.00	X		PVT. DR.	16	36	
MINE LICK CREEK RD.	85+28.50	X		FLD. ENT.	16		NO S.D. REQUIRED
MINE LICK CREEK RD.	86+72.00	X		PVT. DR.	16	30	
MINE LICK CREEK RD.	88+57.73	X		PVT. DR.	10	20	
MINE LICK CREEK RD.	95+12.20	X		PVT. DR.	10		NO S.D. REQUIRED
MINE LICK CREEK RD.	100+13.58	X		PVT. DR.	10		NO S.D. REQUIRED
MINE LICK CREEK RD.	101+37.00	X		PVT. DR.	10	20	
MINE LICK CREEK RD.	102+62.72	X		FLD. ENT.	16		NO S.D. REQUIRED
MINE LICK CREEK RD.	103+41.27	X		PVT. DR.	45	65	
MINE LICK CREEK RD.	104+18.20	X		PVT. DR.	14	30	
MINE LICK CREEK RD.	108+84.16	X		BUS. ENT.	40		NO S.D. REQUIRED
MINE LICK CREEK RD.	109+03.00		X	FLD. ENT.	20	46	
MINE LICK CREEK RD.	110+84.70	X		BUS. ENT.	40	62	
TOTALS						**431**	

CROSS DRAIN TABULATION (LOCAL ROADS)

STATION	LOCATION	RCP CLASS III OR CMP 14 GA. OR HDPE OR PVC (L.F.) FILL HEIGHT < OR = 16 FT.		SKEW	CLASS A-1 RIP-RAP 709-05.06 (TON)	CLASS B RIP-RAP 709-05.08 (TON)	CLASS C RIP-RAP 709-05.09 (TON)	GEO-TEXTILE (TYPE III) 740-10.03 (S.Y.)	END TREATMENT				18" TYPE U ENDWALL 611-07.54 (EACH)	REMARKS
									INLET		OUTLET			
		18" 607-03.30	24" 607-05.30						TYPE	DRAWING NO.	TYPE	DRAWING NO.		
90+03.81	MINE LICK CREEK RD.	63		35°		4		3	U	D-PE-18(A),(B)	U	D-PE-18(A),(B)	2	
98+58.00	MINE LICK CREEK RD.	58		90°			8	4	U	D-PE-18(A),(B)	U	D-PE-18(A),(B)	2	
102+05.00	MINE LICK CREEK RD.	38		90°	2			2	U	D-PE-18(A),(B)	U	D-PE-18(A),(B)	2	
106+05.00	MINE LICK CREEK RD.	40		90°	2			2	U	D-PE-18(A),(B)	U	D-PE-18(A),(B)	2	
9+78.00	HEARTLAND LN.	107		89°	4	4		7	U	D-PE-18(A),(B)	U	D-PE-18(A),(B)	2	A-1 AROUND HEADWALL
19+68.40	MIKE MAXWELL RD.	42		80°		4		3	U	D-PE-18(A),(B)	U	D-PE-18(A),(B)	2	
TOTALS		**348**	**0**		**7**	**11**	**8**	**19**					**12**	

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TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	3
CONST.	2015	71952-3543-04	3

RIGHT - OF - WAY NOTES

(1) IT IS INTENDED THAT ALL BUILDINGS AND/OR PORTIONS OF BUILDINGS THAT ARE WITHIN THE PROPOSED RIGHT-OF-WAY AND/OR EASEMENT LINES FOR THE PROJECT BE REMOVED THERE FROM IN THE PROCESS OF RIGHT-OF-WAY ACQUISITION. IF ANY SUCH BUILDINGS OR IMPROVEMENTS ARE NOT REMOVED IN THE COURSE OF RIGHT-OF-WAY ACQUISITION, THE CIVIL ENGINEERING MANAGER 2, ROADWAY DESIGN DIVISION IS TO BE NOTIFIED IN SUFFICIENT TIME TO PERMIT HAVING SUCH REMOVALS DESIGNATED AS A PART OF THE CONSTRUCTION CONTRACT.

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

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

(4) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY EXCEEDS 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED TO A TOUCHDOWN POINT OR UNTIL THE GRADE IS LESS THAN 7 PERCENT.

(5) WHERE THE EXISTING DRIVEWAY IS UNPAVED AND THE PROPOSED DRIVEWAY IS LESS THAN 7 PERCENT IN GRADE, EACH DRIVEWAY WILL BE PAVED A SHOULDER WIDTH FROM THE EDGE OF PAVEMENT AND THE REMAINDER OF THAT DRIVEWAY REPLACED IN KIND TO A TOUCHDOWN POINT.

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

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

(8) NEW DRIVEWAYS PROVIDED IN THE PLANS WILL BE PAVED BASED ON THE 7 PERCENT CRITERIA. THOSE 7 PERCENT OR STEEPER IN GRADE WILL BE PAVED AND THOSE FLATTER THAN 7 PERCENT WILL BE COVERED WITH BASE STONE.

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

(10) ON PROJECTS WITH CURB AND GUTTER THAT ARE ON STATE ROUTES, IT WILL BE THE RESPONSIBILITY OF THE OWNER TO SECURE A PERMIT. AFTER THE PERMIT HAS BEEN GRANTED, THE DEPARTMENT WILL CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE THROUGH THE CURB AND SIDEWALK, PROVIDED THE CURB AND SIDEWALK HAVE NOT BEEN CONSTRUCTED. IT WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONSTRUCT THE DRIVEWAY OR FIELD ENTRANCE FROM BACK OF SIDEWALK TO TOUCHDOWN POINT FOR ANY ADDITIONAL DRIVEWAYS OR FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS.

(11) ON NON-STATE ROUTES, ADDITIONAL DRIVEWAYS AND FIELD ENTRANCES OTHER THAN THOSE PROVIDED IN THE PLANS SHALL REQUIRE A PERMIT ONLY IF THE LOCAL AGENCY SPECIFIES THE NEED FOR THAT PERMIT.

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PH: (931) 520-5258
FAX: (931) 520-5376
BTURNER@COOKEVILLE-TN.ORG

DOUBLE SPRINGS UTILITY DISTRICT
P.O. BOX 3034
2677 WEST BROAD STREET
COOKEVILLE, TN 38502
MR. JIM BRANHAM
PH: (931) 526-3827
FAX: (931) 520-6193
DSUD@FRONTIERNET.NET

COOKEVILLE BOAT DOCK ROAD UTILITY DISTRICT
1591 WEST CEMETERY ROAD
COOKEVILLE, TN 38506
MS. ROBIN HAWKINS
PH. (931) 432-4459
FAX: (931) 858-4996

UNOFFICIAL SET
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

R.O.W. & UTILITY NOTES

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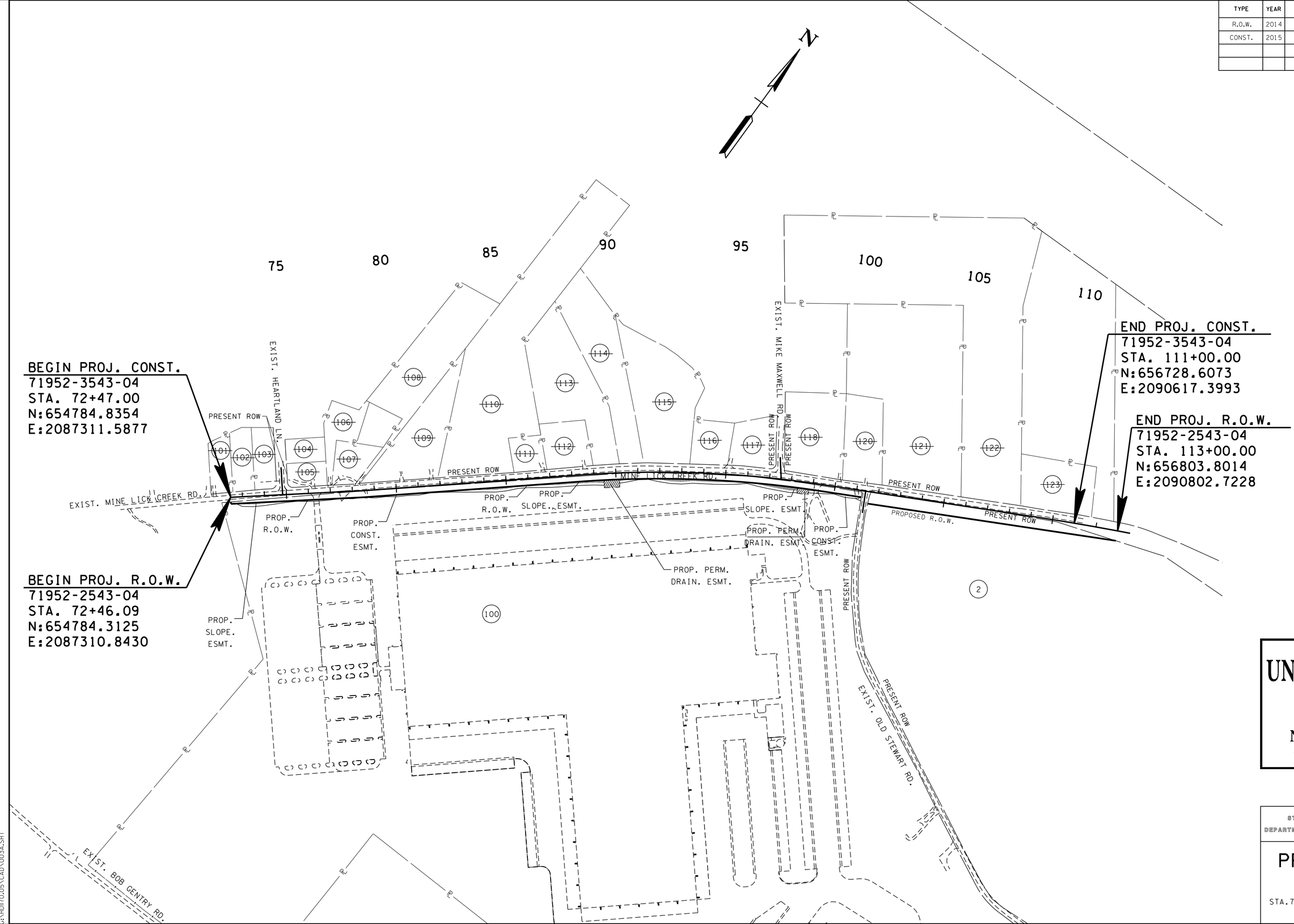
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	3A
CONST.	2015	71952-3543-04	3A



UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

STA.72+47 TO STA.111+00

SCALE: 1"=200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	3B
CONST.	2015	71952-3543-04	3B

REV. 4/27/2015:
CHANGED PROPERTY OWNER NAME ON TRACT 2.

R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS				TOTAL AREA ACRES			AREA TO BE ACQUIRED ACRES			AREA REMAINING ACRES		EASEMENT ACRES		
		TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE BK.	DEED DOCUMENT REFERENCE PAGE	LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERM. DRAINAGE	SLOPE	CONST.
100	THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF COOKEVILLE, TENNESSEE	064	066.00	RB805	309		186.020	186.020		1.628	1.628		184.392	0.086	0.232	0.511
~~101~~	~~DAVID ETVIR & JEANNE FAITHFUL~~	~~064O~~	~~027.00~~	~~RB740~~	~~676~~	~~0.580~~		~~0.580~~				~~0.580~~				
~~102~~	~~CHARLES & CORA BIGELOW~~	~~064O~~	~~028.00~~	~~RB349~~	~~392~~	~~0.650~~		~~0.650~~				~~0.650~~				
~~103~~	~~CHARLES & CORA BIGELOW~~	~~064O~~	~~029.00~~	~~RB349~~	~~694~~	~~0.640~~		~~0.640~~				~~0.640~~				
~~104~~	~~DEBORAH G. ETVIR HOLLIS L. MAXWELL~~	~~064O~~	~~002.00~~	~~RB581~~	~~511-5~~	~~0.640~~		~~0.640~~				~~0.640~~				
~~105~~	~~KENNETH & JOANN BERKLEY~~	~~064O~~	~~001.00~~	~~373~~	~~339~~	~~0.450~~		~~0.450~~				~~0.450~~				
~~106~~	~~KIMBERLY LLOYD STEWART~~	~~064~~	~~043.03~~	~~RB279~~	~~80~~	~~0.700~~		~~0.700~~				~~0.700~~				
~~107~~	~~SUE ANNE STEWART~~	~~064~~	~~043.00~~	~~384~~	~~453~~	~~0.720~~		~~0.720~~				~~0.720~~				
~~108~~	~~DAVID & GAIL BENSON~~	~~064~~	~~043.05~~	~~RB114~~	~~588~~	~~3.340~~		~~3.340~~				~~3.340~~				
~~109~~	~~ARTHUR & SANDRA McFADDEN~~	~~064~~	~~042.00~~	~~292~~	~~221~~	~~2.000~~		~~2.000~~				~~2.000~~				
~~110~~	~~JOSE & LAURA CAMARILLO~~	~~064~~	~~041.00~~	~~RB752~~	~~462~~	~~8.510~~		~~8.510~~				~~8.510~~				
~~111~~	~~MARY ANNE FIELDS~~	~~064~~	~~041.02~~	~~RB616~~	~~449~~	~~0.550~~		~~0.550~~				~~0.550~~				
~~112~~	~~STEVEN BRENT ANDERSON~~	~~064~~	~~040.01~~	~~RB801~~	~~339~~	~~1.000~~		~~1.000~~				~~1.000~~				
~~113~~	~~STEVEN BRENT ANDERSON~~	~~064~~	~~040.08~~	~~RB801~~	~~339~~	~~3.510~~		~~3.510~~				~~3.510~~				
~~114~~	~~KRISTINA KOLATH~~	~~064~~	~~040.07~~	~~RB609~~	~~562~~	~~3.050~~		~~3.050~~				~~3.050~~				
~~115~~	~~JIMMY & WANDA MAXWELL~~	~~064~~	~~040.06~~	~~RB609~~	~~566~~	~~3.580~~		~~3.580~~				~~3.580~~				
~~116~~	~~LINDA ANDERSON & FREDDIE MAXWELL ETAL~~	~~064~~	~~040.05~~	~~RB609~~	~~558~~	~~0.810~~		~~0.810~~				~~0.810~~				
~~117~~	~~NATASHA JUDKINS & GREG MAXWELL ETAL~~	~~064~~	~~040.00~~	~~RB674~~	~~682~~	~~1.020~~		~~1.020~~				~~1.020~~				
~~118~~	~~JOEL & REBECCA MOSS~~	~~064~~	~~034.02~~	~~420~~	~~667~~	~~2.500~~		~~2.500~~				~~2.500~~				
~~120~~	~~DONALD & JENNY HERALD~~	~~064~~	~~034.03~~	~~303~~	~~477~~	~~1.500~~		~~1.500~~				~~1.500~~				
~~121~~	~~KENNY & MARTY MAYNARD~~	~~064~~	~~034.04~~	~~RB309~~	~~384~~	~~8.600~~		~~8.600~~				~~8.600~~				
~~122~~	~~CHARLES & LINDA CRAWFORD ETUX~~	~~064~~	~~034.00~~	~~303~~	~~387~~	~~15.600~~		~~15.600~~				~~15.600~~				
~~123~~	~~UNION GROVE BAPTIST CHURCH~~	~~064~~	~~033.00~~	~~RB254~~	~~197~~	~~1.000~~		~~1.000~~				~~1.000~~				
2	LINDSAY N. WILLIAMS, CURTIS E. WILLIAMS, PATRICIA A. WILLIAMS	64	32	179	65	102.899	2.795	105.694		1.101	1.101	102.899	1.572			
									0	2.729	2.729			0.086	0.232	0.511

DISTURBED AREA

IN BETWEEN SLOPE LINES	5.743 (AC)
15 FOOT WIDE STRIP (OUTSIDE SLOPE LINES)	1.740 (AC)
TOTAL DISTURBED AREA	7.483 (AC)

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	4
CONST.	2015	71952-3543-04	4

BEGIN PROJ. CONST.
STA. 72+47.00
71952-3543-04
N:654784.8354
E:2087311.5877

BEGIN PROJ. R.O.W.
STA. 72+46.09
71952-2543-04
N:654784.3125
E:2087310.8430

MINE LICK CREEK RD. STA. 74+82.89 =
HEARTLAND LN. STA. 10+00.00
N 654920.3885
E 2087504.6408

P.I. STA. 78+46.24
N 655129.1855
E 2087802.0067
Δ 01°16'40.79" LT.

(101) DAVID ETVIR & JEANNE FAITHFUL
(102) CHARLES & CORA BIGELOW
(103) CHARLES & CORA BIGELOW
(104) DEBORAH G. ETVIR HOLLIS L. MAXWELL
(105) KENNETH & JOANN BERKLEY
(106) KIMBERLY LLOYD STEWART
(107) SUE ANNE STEWART
(108) DAVID & GAIL BENSON
(109) ARTHUR & SANDRA McFADDEN
(110) JOSE & LAURA CAMARILLO
(100) THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF COOKEVILLE, TENNESSEE

EXIST. HEARTLAND LN. (ASP.)
EXIST. MINE LICK CREEK RD. (ASP.)
ACADEMY SPORTS ENTRANCE
ACADEMY SPORTS PROPOSED SITE
EXIST. PAVEMENT TO BE OBLITERATED, SCARIFIED AND SEEDED
ALL SEPTIC OFF PROJECT
LIMIT OF CONST. 9+56.00
MATCHLINE 85+00 SEE SHT. 5

POINT	NNORTH	EAST	ELEVATION	FEATURE	DESCRIPTION	STATION	OFFSET
GPS1	657267.1074	2093085.0822	1026.4680	XCP	GPS71-ML-01		
GPS2	657556.6278	2092988.0322	1038.5770	XCP	GPS71-ML-02		
GPS3	658120.2822	2092983.7746	1042.8590	XCP	GPS71-ML-03		
GPS4	658097.9148	2093415.5454	1019.1970	XCP	GPS71-ML-04		

UNOFFICIAL SET
NOT FOR BIDDING

ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000749 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.72+47 TO STA.85+00

SCALE: 1"=50'

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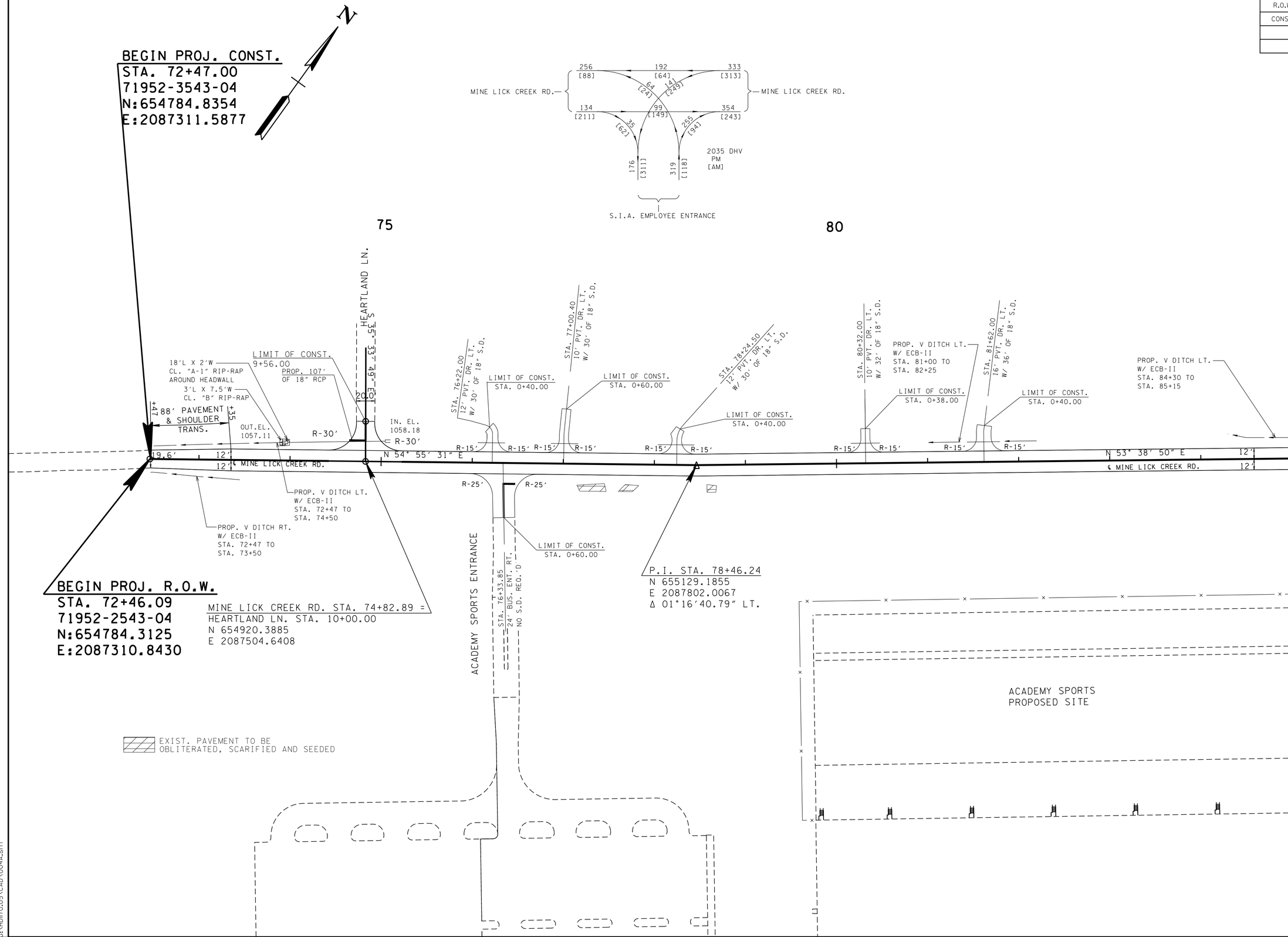
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	4A
CONST.	2015	71952-3543-04	4A



UNOFFICIAL SET

NOT FOR BIDDING

ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000749 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.72+47 TO STA.85+00

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	4B
CONST.	2015	71952-3543-04	4B

EARTHWORK SUMMARY (ASSUME 10% SHRINKAGE)

EXC. (UNCL.) = 8180 C.Y.

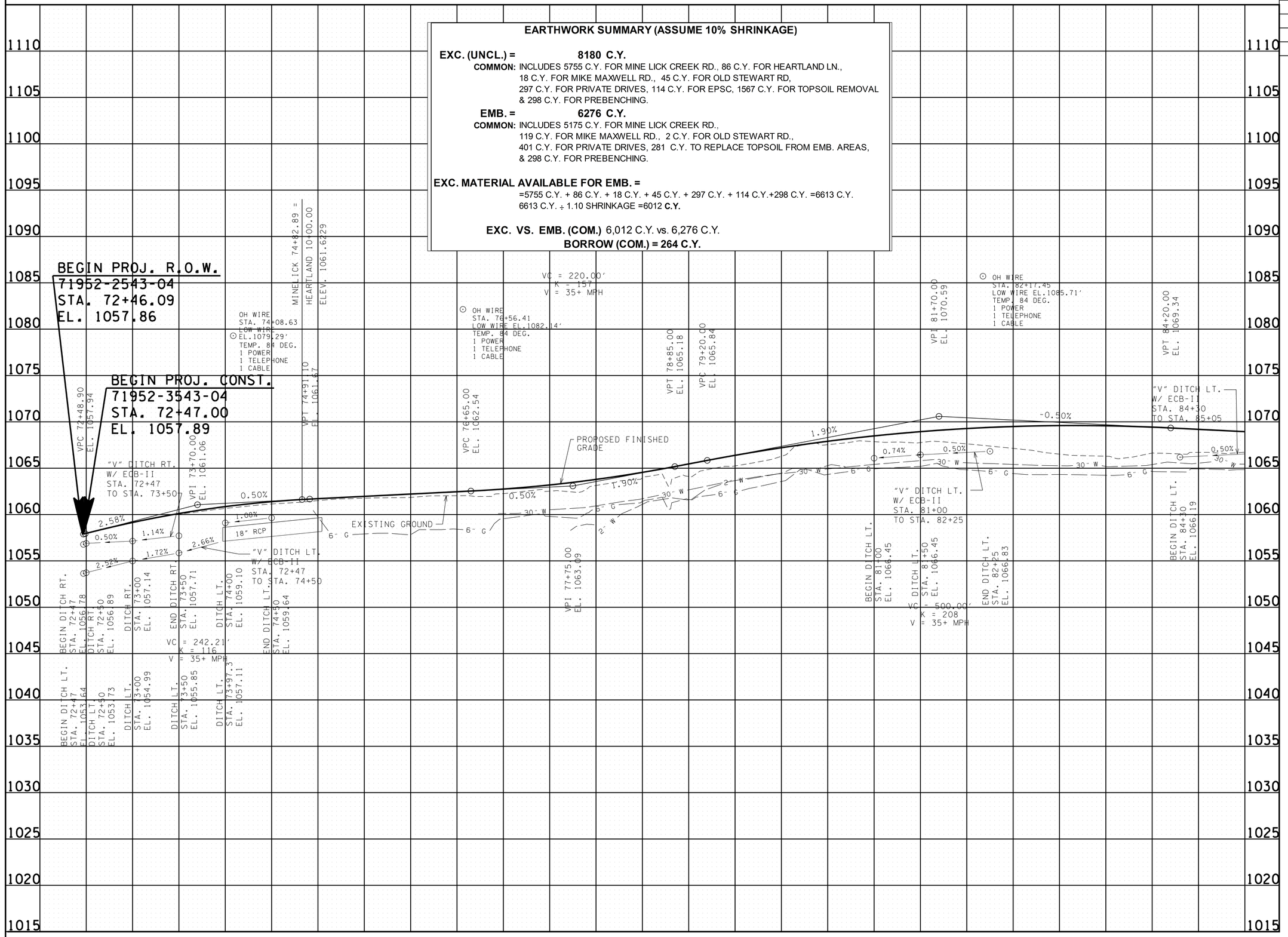
COMMON: INCLUDES 5755 C.Y. FOR MINE LICK CREEK RD., 86 C.Y. FOR HEARTLAND LN., 18 C.Y. FOR MIKE MAXWELL RD., 45 C.Y. FOR OLD STEWART RD, 297 C.Y. FOR PRIVATE DRIVES, 114 C.Y. FOR EPSC, 1567 C.Y. FOR TOPSOIL REMOVAL & 298 C.Y. FOR PREBENCHING.

EMB. = 6276 C.Y.

COMMON: INCLUDES 5175 C.Y. FOR MINE LICK CREEK RD., 119 C.Y. FOR MIKE MAXWELL RD., 2 C.Y. FOR OLD STEWART RD., 401 C.Y. FOR PRIVATE DRIVES, 281 C.Y. TO REPLACE TOPSOIL FROM EMB. AREAS, & 298 C.Y. FOR PREBENCHING.

EXC. MATERIAL AVAILABLE FOR EMB. =
=5755 C.Y. + 86 C.Y. + 18 C.Y. + 45 C.Y. + 297 C.Y. + 114 C.Y.+298 C.Y. =6613 C.Y.
6613 C.Y. ÷ 1.10 SHRINKAGE =6012 **C.Y.**

EXC. VS. EMB. (COM.) 6,012 C.Y. vs. 6,276 C.Y.
BORROW (COM.) = 264 C.Y.



UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.72+47 TO STA.85+00
SCALE: 1"=50' HORIZ.
1"=5' VERT.

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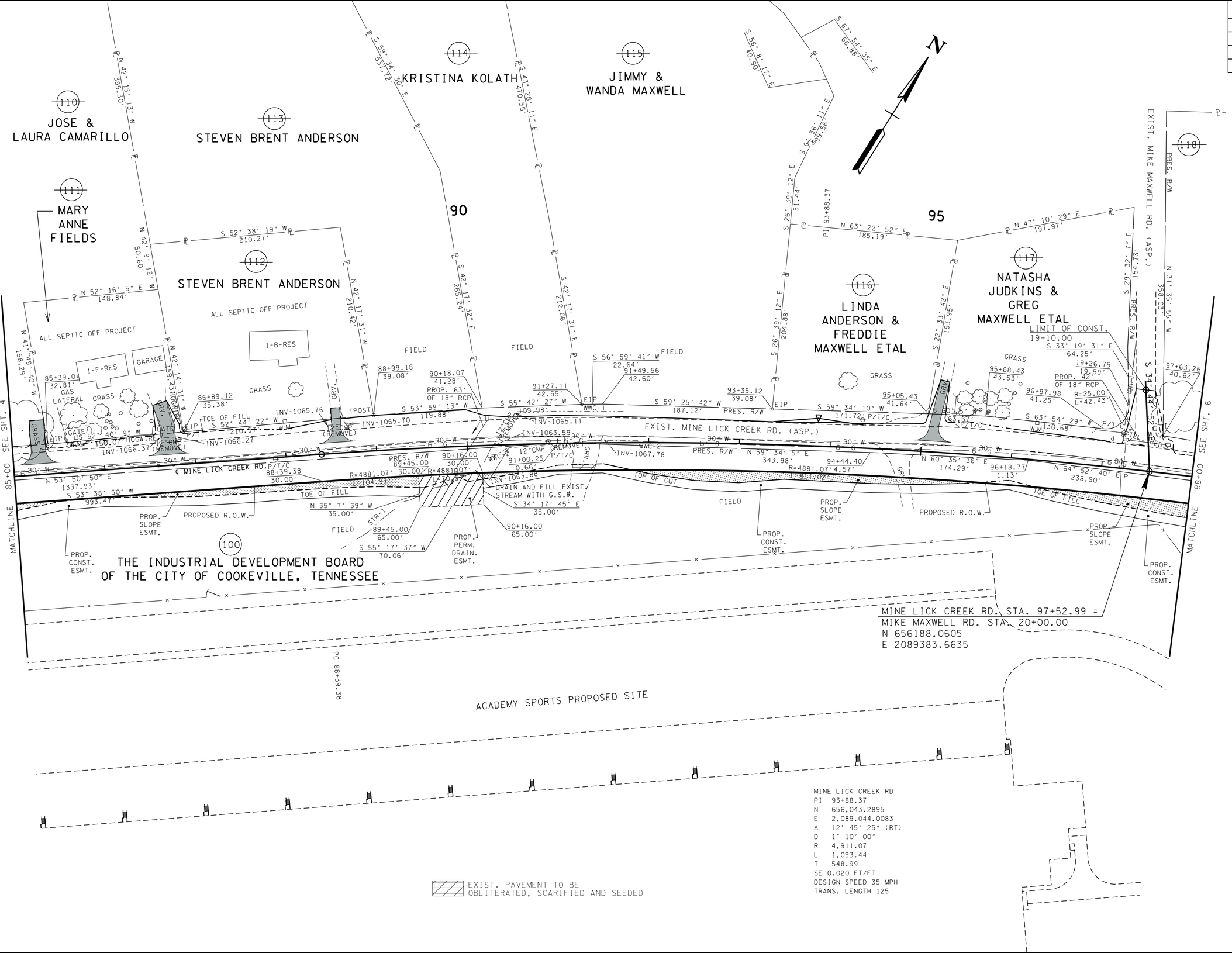
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	5
CONST.	2015	71952-3543-04	5



UNOFFICIAL SET

NOT FOR BIDDING

ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000749 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.85+00 TO STA.98+00

SCALE: 1"=50'

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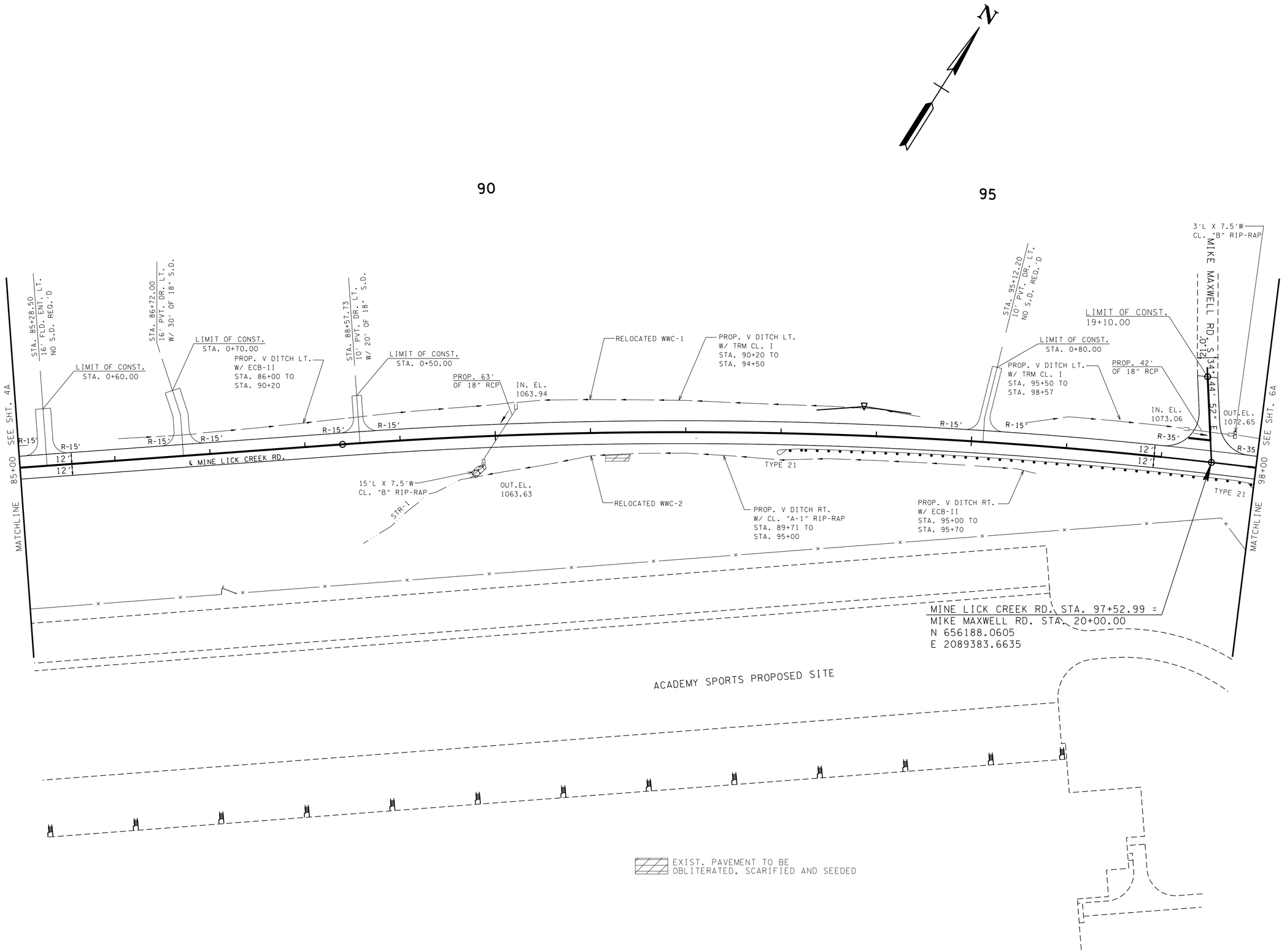
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	5A
CONST.	2015	71952-3543-04	5A



UNOFFICIAL SET

NOT FOR BIDDING

ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000749 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.85+00 TO STA.98+00

SCALE: 1"= 50'

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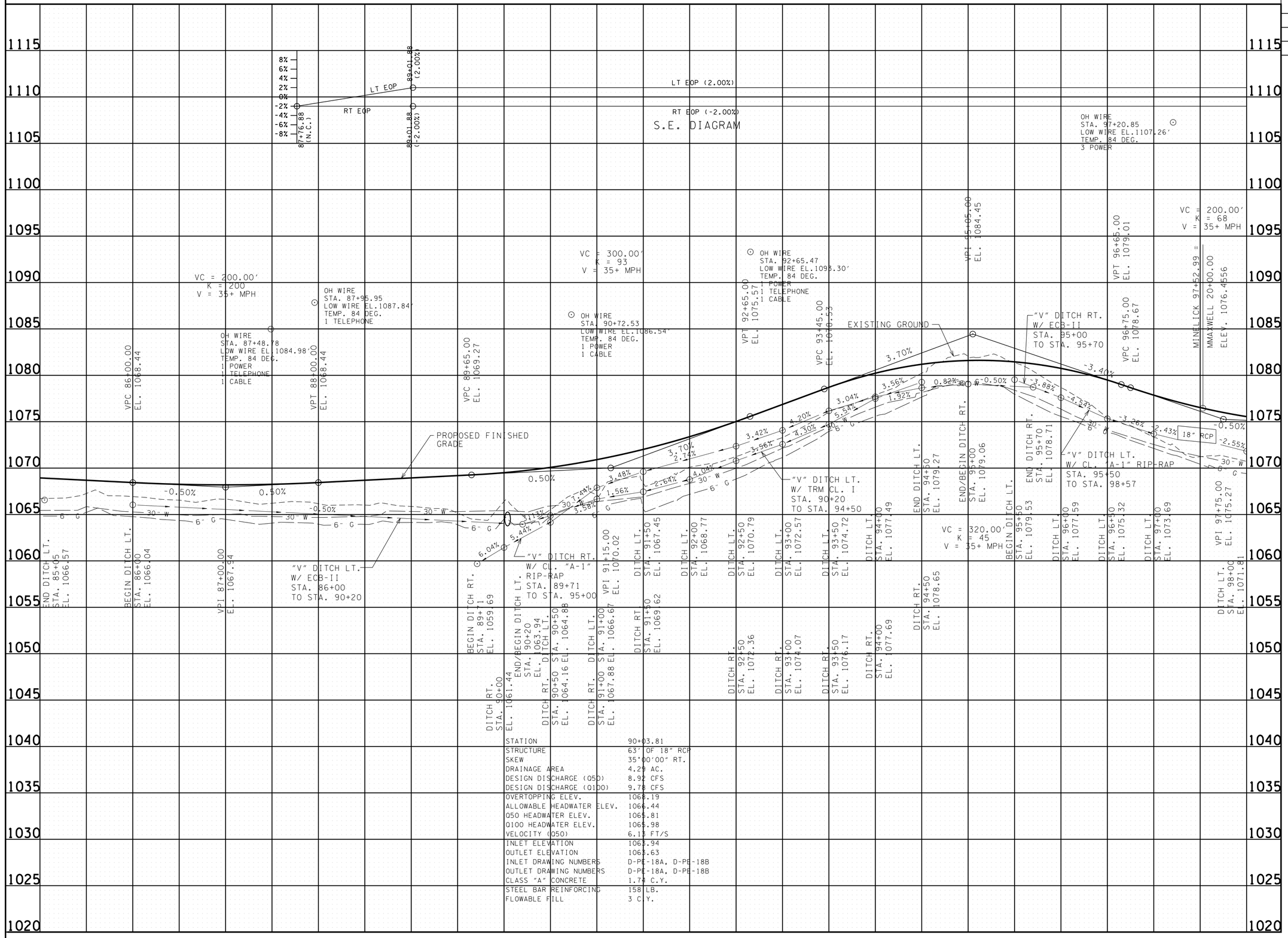
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	5B
CONST.	2015	71952-3543-04	5B



STATION	90+03.81
STRUCTURE	63' OF 18" RCP
SKEW	35°00'00" RT.
DRAINAGE AREA	4.29 AC.
DESIGN DISCHARGE (Q50)	8.92 CFS
DESIGN DISCHARGE (Q100)	9.78 CFS
OVERTOPPING ELEV.	1068.19
ALLOWABLE HEADWATER ELEV.	1066.44
Q50 HEADWATER ELEV.	1065.81
Q100 HEADWATER ELEV.	1065.98
VELOCITY (Q50)	6.13 FT/S
INLET ELEVATION	1063.94
OUTLET ELEVATION	1063.63
INLET DRAWING NUMBERS	D-PE-18A, D-PE-18B
OUTLET DRAWING NUMBERS	D-PE-18A, D-PE-18B
CLASS "A" CONCRETE	1.74 C.Y.
STEEL BAR REINFORCING	158 LB.
FLOWABLE FILL	3 C.Y.

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.85+00 TO STA.98+00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	6
CONST.	2015	71952-3543-04	6

REV. 4/27/2015:
ADDED 20' FIELD ENTRANCE AT STA. 109+03 FOR TRACT 2. CHANGED PROPERTY OWNER NAME ON TRACT 2.

N

MATCHLINE SEE SHT. 5

98+00

100

105

110

ALL SEPTIC OFF PROJECT

118 JOLE & REBECCA MOSS

120 DONALD & JENNY HERALD

121 KENNY & MARTY MAYNARD

122 CHARLES & LINDA CRAWFORD ETUX

123 UNION GROVE BAPTIST CHURCH

1 BR CHURCH

1 FR CHURCH

DENSE TREES

S 59° 33' 1" W 277.50'

S 66° 25' 25" W 169.88'

S 29° 35' 18" E 393.26'

N 31° 22' 40" W 389.87'

S 31° 29' 30" E 811.16'

N 31° 36' 1" W 908.06'

PI 111+27.75

TPOST

JPOST

EIP

HOGWIRE FENCE

GRASS

GAS LATERAL

PLANTER

UNKNOWN VAULT WWC-4

PROP. 58' OF 18" RCP

WWC-3B

WWC-3A

PRES. R/W

EXIST. MINE LICK CREEK RD. (ASP.)

18"CMP(REMOVE)

12"CMP (REMOVE)

INV-1068.63

INV-1069.28

INV-1072.53

INV-1072.80

INV-1071.34

INV-1071.49

INV-1070.32

INV-1070.36

INV-1070.76

INV-1070.60

INV-1069.93

INV-1069.68

INV-1069.87

INV-1070.74

INV-1066.48

INV-1067.96

BARBWIRE

98+57.80

4.23'

R=488 1.07'

98+32.00 55.00'

98+84.00 55.00'

99+32.82 30.00'

R=4881.07' L=48.52'

S 65° 31' 52" W 51.42'

PROP. CONST. ESMT.

PROP. PERM. DRAIN. ESMT.

PROP. SLOPE ESMT.

LIMIT OF CONST. 30+40.00

PROPOSED R.O.W.

GARAGE TO BE REMOVED BY OTHERS

S 66° 24' 15" W 192.30'

WELL HOUSE

2-F RES (TO BE DEMOLISHED BY OTHERS)

100+28.62 34.22'

101+65.15 3.10'

101+25.25 6.35'

101+25.12 30.00'

102+10.23 38.99'

105+73.21 39.30'

108+48.02 40.17'

110+18.80 6.84'

111+17.62 41.90'

N 64° 53' 58" E 181.67'

N 66° 44' 07" E 267.39'

N 66° 24' 15" E 362.98'

N 66° 41' 54" E 853.59'

N 66° 13' 24" E 274.81'

N 75° 31' 48" E 283.18'

S 66° 17' 37" W 1140.69'

30+18.03 20.60'

PROP. 38' OF 18" RCP

PROP. 40' OF 18" RCP

TOP OF CUT

P/T/C

W.M.

GRV.

CONC.

101+57.63 54.59'

MINE LICK CREEK RD. STA. 101+40.75 = OLD STEWART RD. STA. 30+00.00
N 656346.2764
E 2089737.6509

S 23° 16' 38" E 280.57'

EXIST. OLD STEWART RD. (ASP.)

3'-0" 7'-1" 10'-0" 5'-8"

PT 99+32.82

TPOST

EXIST. MINE LICK CREEK RD

TVA POWER LINE ESMT. (75.0')

113+00.00 45.36'

END PROJ. R.O.W.
STA. 113+00.00
71952-2543-04
N:656803.8014
E:2090802.7228

END PROJ. CONST.
STA. 111+00.00
71952-3543-04
N:656728.6073
E:2090617.3993

PC 108+97.73

MINE LICK CREEK RD.
PI 111+27.75
N 656,741.3558
E 2,090,642.1252
Δ 2° 18' 00" (RT)
D 0° 30' 00"
R 11,459.16
L 459.99
T 230.02
SE N.C.
DESIGN SPEED 35 MPH
TRANS. LENGTH N/A

(1) N 24° 45' 43" W; 25.00'
(2) S 24° 10' 27" E; 25.00'
(3) 98+32.00; 30.00'
(4) 98+84.00; 30.00'
(5) S 23° 16' 38" E; 23.65'
(6) N 9° 26' 36" W; 15.35'
(7) N 17° 43' 57" W; 36.81'

(2)
LINDSAY N. WILLIAMS,
CURTIS E. WILLIAMS,
PATRICIA A. WILLIAMS

THE INDUSTRIAL DEVELOPMENT BOARD OF THE CITY OF COOKEVILLE, TENNESSEE

EXIST. PAVEMENT TO BE OBLITERATED, SCARIFIED AND SEEDED

UNOFFICIAL SET

NOT FOR BIDDING

ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000749 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA.98+00 TO STA.111+00

SCALE: 1"=50'

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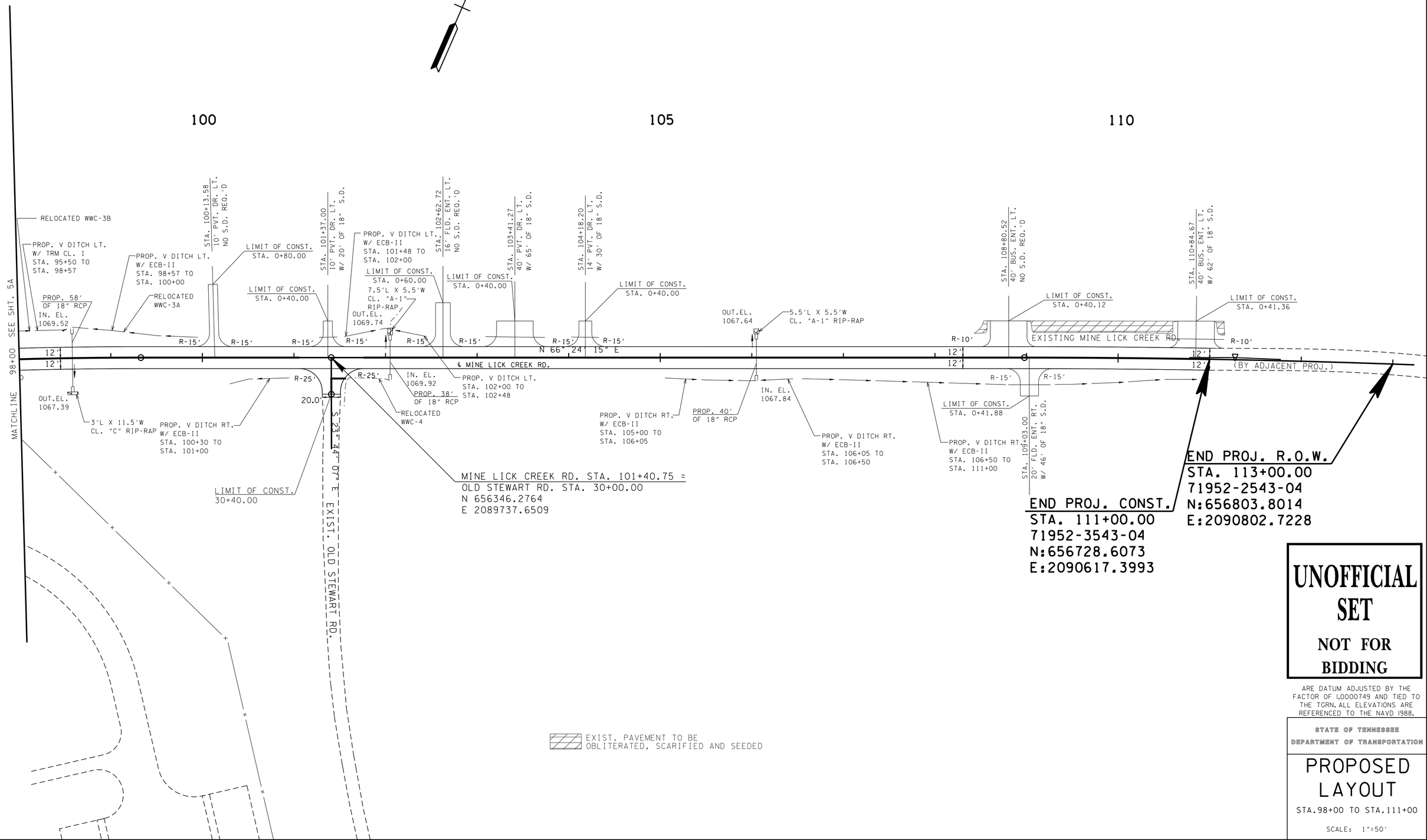
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	6A
CONST.	2015	71952-3543-04	6A

REV. 4/27/2015:
ADDED 20' FIELD ENTRANCE AT STA. 109+03 FOR TRACT 2.



UNOFFICIAL SET

NOT FOR BIDDING

ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000749 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA.98+00 TO STA.111+00

SCALE: 1"=50'

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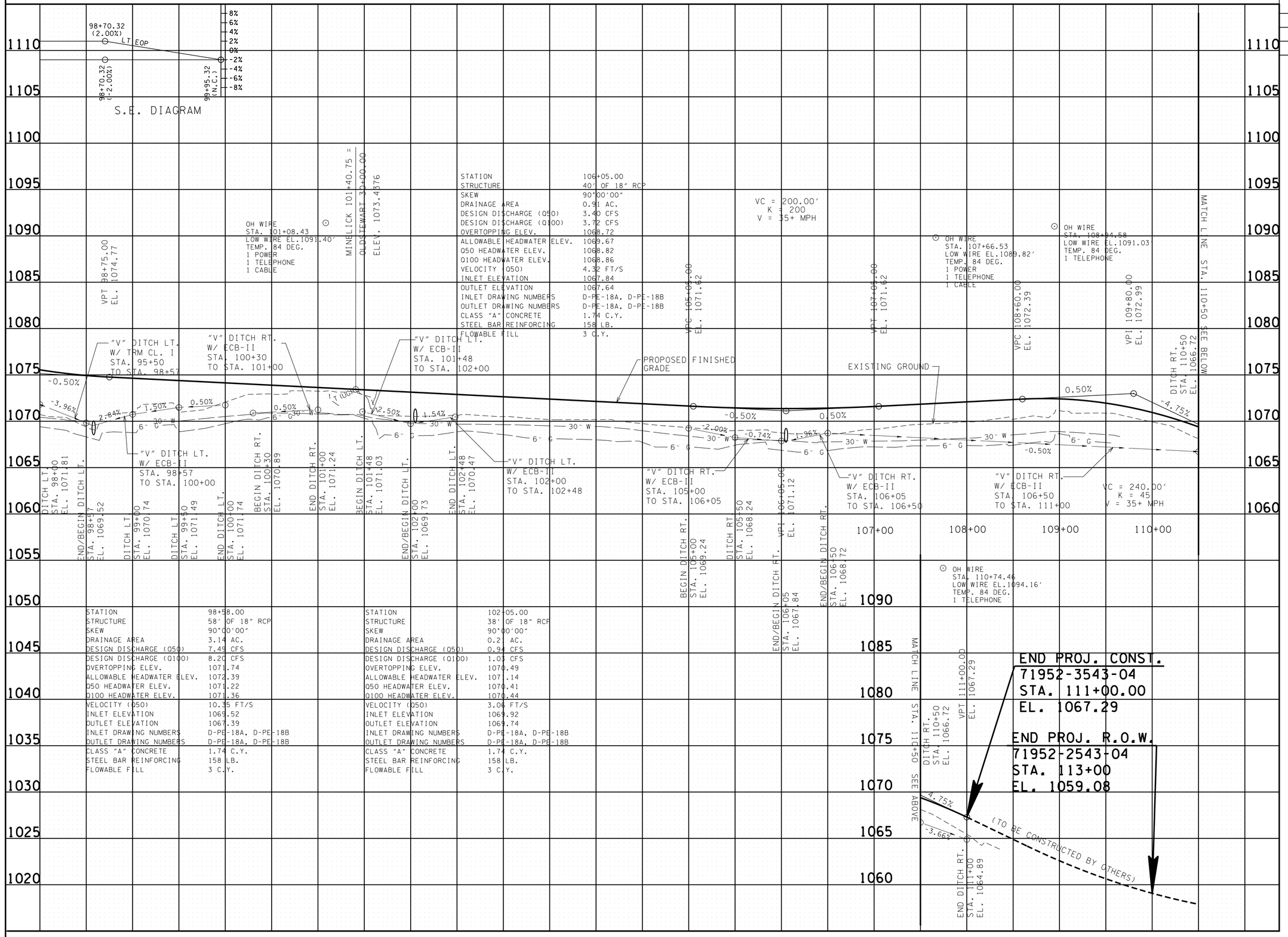
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	6B
CONST.	2015	71952-3543-04	6B



UNOFFICIAL SET

NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE

STA.98+00 TO STA.111+00

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

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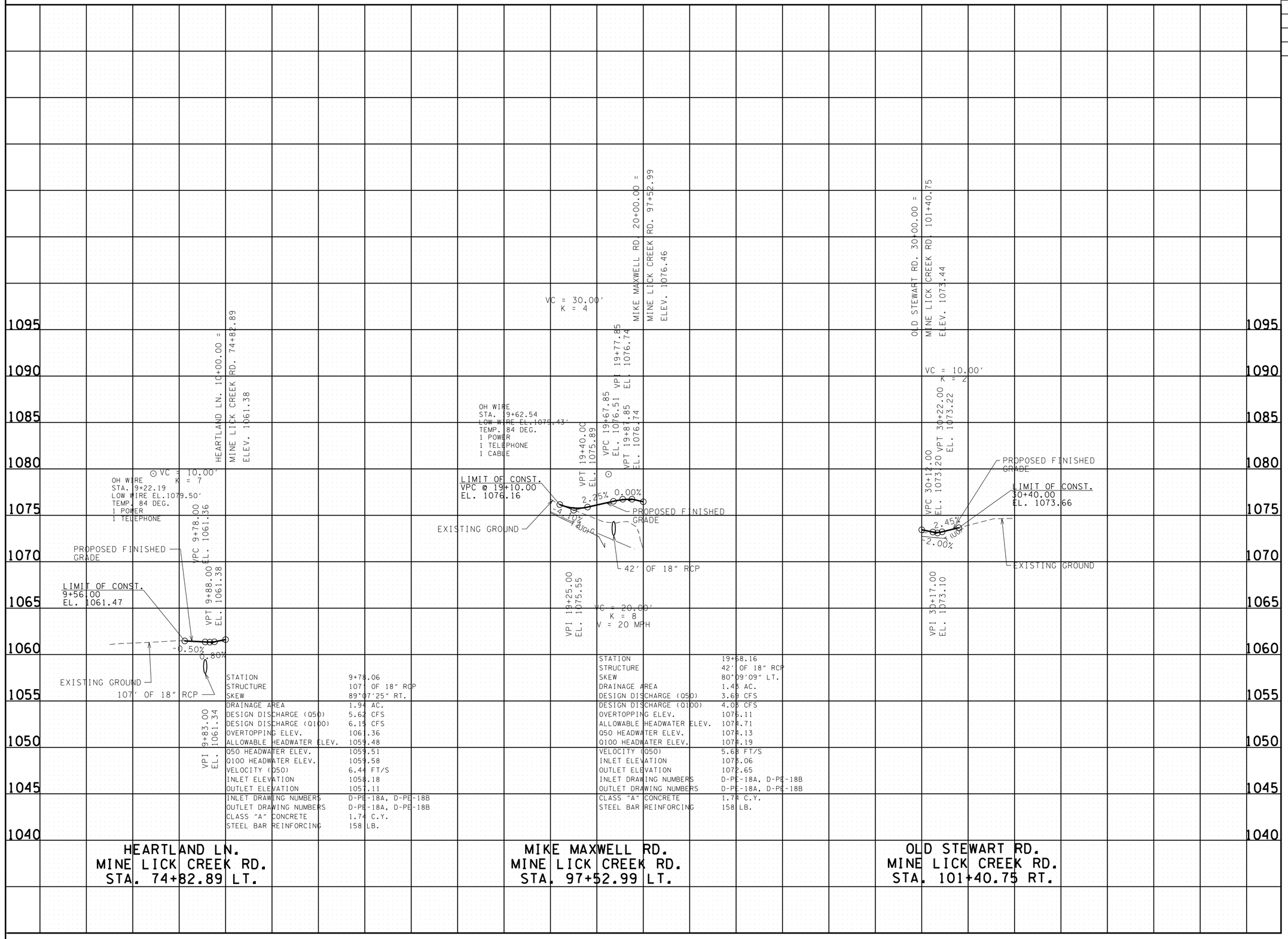
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	7
CONST.	2015	71952-3543-04	7



UNOFFICIAL SET

NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF SIDE ROADS AND STREETS

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

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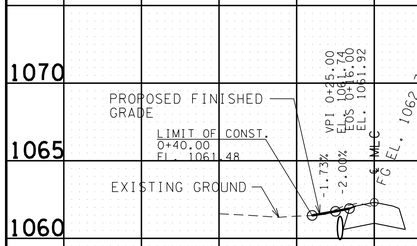
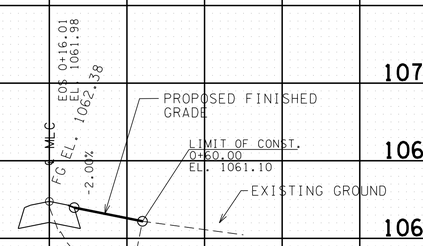
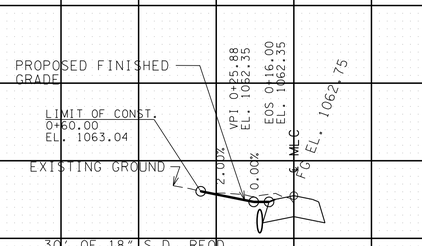
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	8
CONST.	2015	71952-3543-04	8



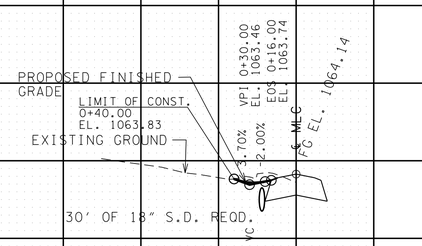
MINE LICK CREEK RD.
STA. 76+22.00 LT.
TRACT 105
12 FT. PVT. DR.



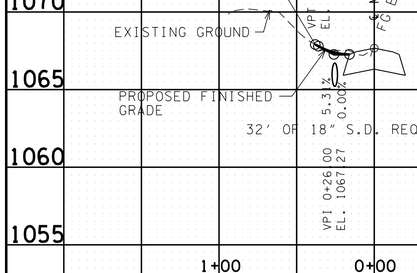
MINE LICK CREEK RD.
STA. 76+33.85 RT.
TRACT 100
24 FT. BUS. ENT.



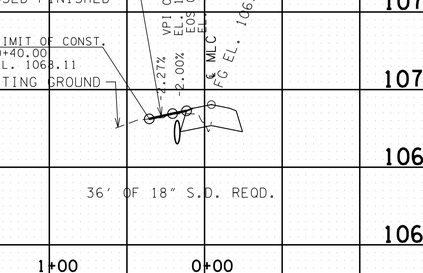
MINE LICK CREEK RD.
STA. 77+00.40 LT.
TRACT 106
10 FT. PVT. DR.



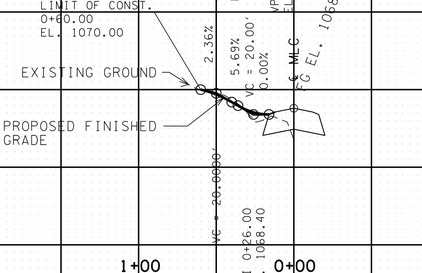
MINE LICK CREEK RD.
STA. 78+24.50 LT.
TRACTS 107 & 108
12 FT. PVT. DR.



MINE LICK CREEK RD.
STA. 80+32.00 LT.
TRACT 109
10 FT. PVT. DR.



MINE LICK CREEK RD.
STA. 81+62.00 LT.
TRACT 109
16 FT. PVT. DR.



MINE LICK CREEK RD.
STA. 85+28.50 LT.
TRACT 110
16 FT. FLD. ENT.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES
SCALE: 1"=50' HORIZ.
1"=5' VERT.

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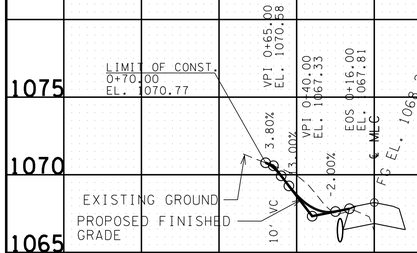
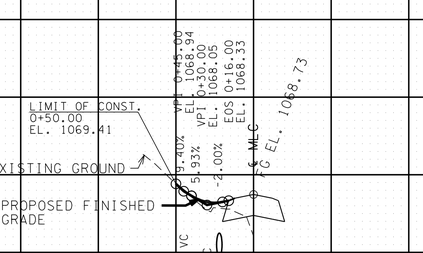
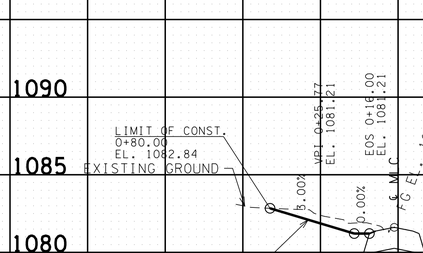
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	8A
CONST.	2015	71952-3543-04	8A



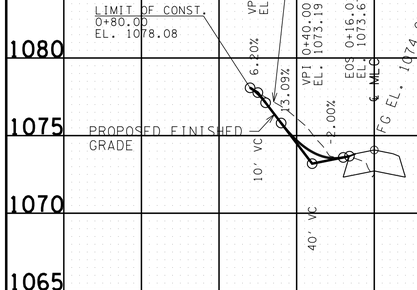
MINE LICK CREEK RD.
STA. 86+72.00 LT.
TRACT 111
16 FT. PVT. DR.



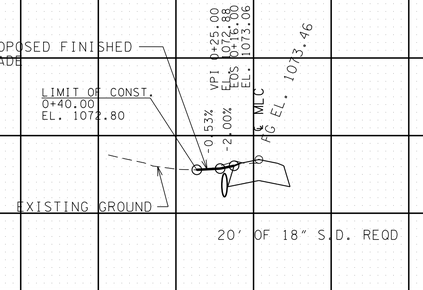
MINE LICK CREEK RD.
STA. 88+57.73 LT.
TRACT 112
10 FT. PVT. DR.



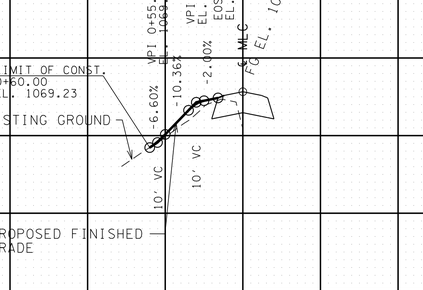
MINE LICK CREEK RD.
STA. 95+12.20 LT.
TRACT 117
10 FT. PVT. DR.



MINE LICK CREEK RD.
STA. 100+13.58 LT.
TRACT 118
10 FT. PVT. DR.



MINE LICK CREEK RD.
STA. 101+37.00 LT.
TRACT 120
10 FT. PVT. DR.



MINE LICK CREEK RD.
STA. 102+62.72 LT.
TRACT 121
16 FT. FLD. ENT.

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES
SCALE: 1"=50' HORIZ.
1"=5' VERT.

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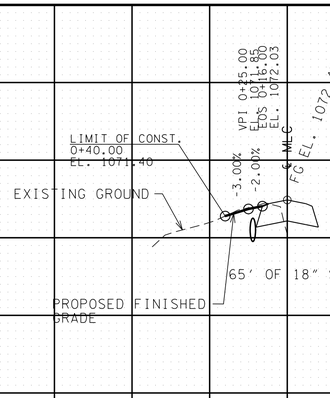
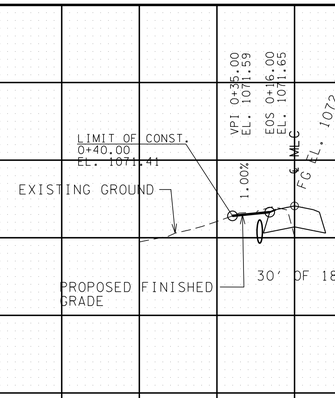
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	8B
CONST.	2015	71952-3543-04	8B

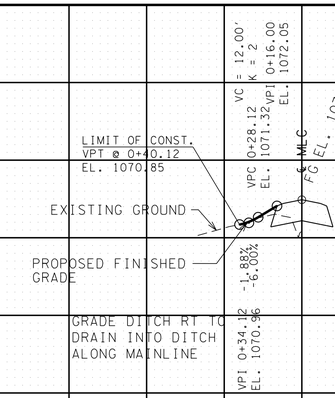
REV. 4/27/2015:
ADDED 20' FIELD ENTRANCE AT STA. 109+03 FOR TRACT 2.



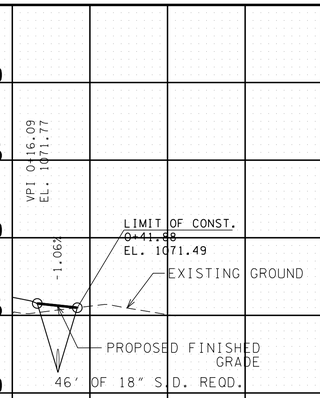
MINE LICK CREEK RD.
STA. 103+41.27.00 LT.
TRACT 121
40 FT. PVT. DR.



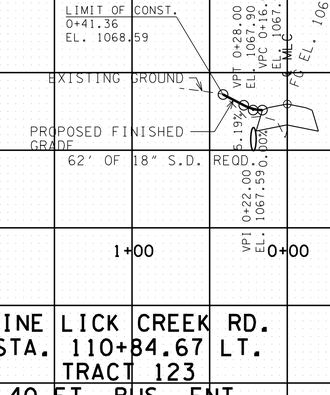
MINE LICK CREEK RD.
STA. 104+18.20 LT.
TRACT 121
14 FT. PVT. DR.



MINE LICK CREEK RD.
STA. 108+80.52 LT.
TRACT 123
40 FT. BUS. ENT.



MINE LICK CREEK RD.
STA. 109+03.00 RT.
TRACT 2
20 FT. FIELD ENT.



MINE LICK CREEK RD.
STA. 110+84.67 LT.
TRACT 123
40 FT. BUS. ENT.

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROFILE OF PRIVATE DRIVES

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

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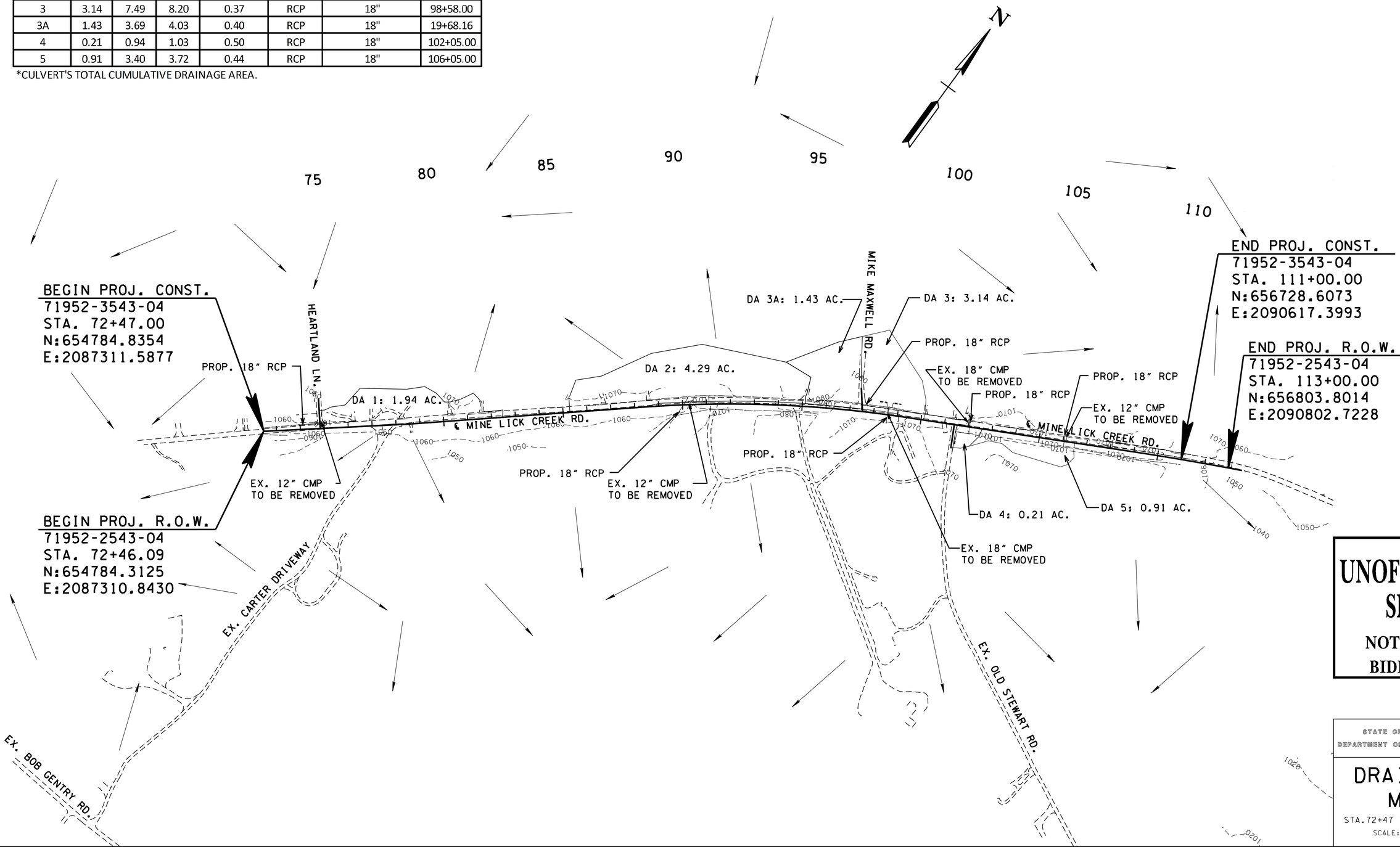
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	9
CONST.	2015	71952-3543-04	9

DRAINAGE TABLE

DRAINAGE AREA	AREA* (Ac.)	Q_{50} (CFS)	Q_{100} (CFS)	C COEFFICIENT OF RUNOFF	TYPE	SIZE	STATION
1	1.94	5.62	6.15	0.44	RCP	18"	9+78.06
2	4.29	8.92	9.78	0.35	RCP	18"	90+03.81
3	3.14	7.49	8.20	0.37	RCP	18"	98+58.00
3A	1.43	3.69	4.03	0.40	RCP	18"	19+68.16
4	0.21	0.94	1.03	0.50	RCP	18"	102+05.00
5	0.91	3.40	3.72	0.44	RCP	18"	106+05.00

*CULVERT'S TOTAL CUMULATIVE DRAINAGE AREA.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA.72+47 TO STA.111+00

SCALE: 1"=200'

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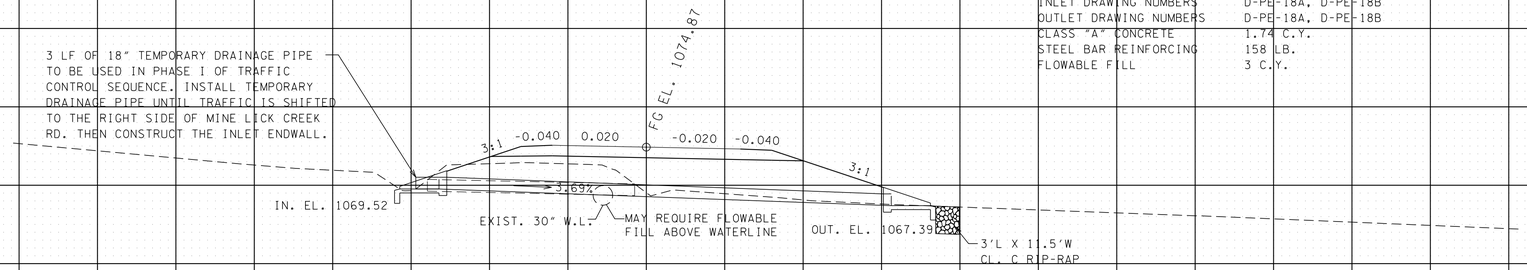
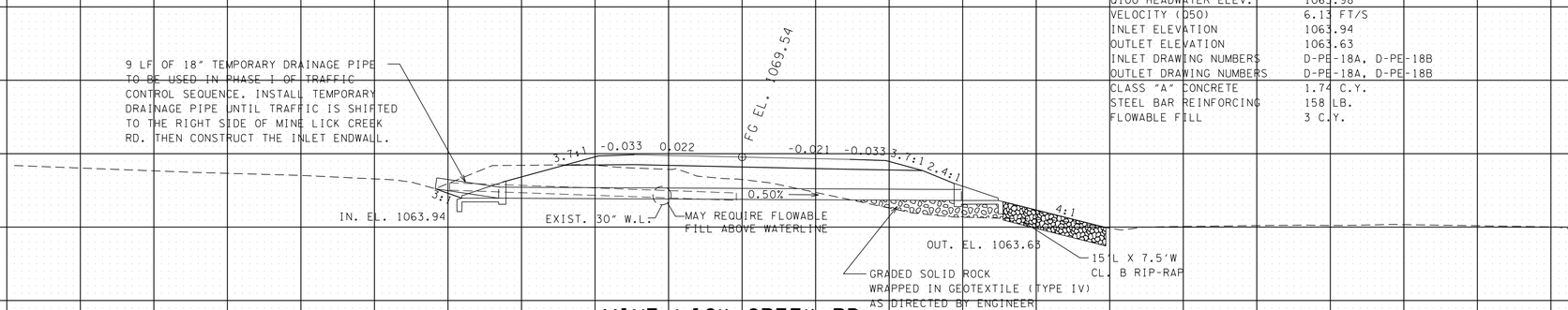
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	10
CONST.	2015	71952-3543-04	10

STATION	98+58.00
STRUCTURE	58' OF 18" RCP
SKEW	90°00'00"
DRAINAGE AREA	3.14 AC.
DESIGN DISCHARGE (Q50)	7.49 CFS
DESIGN DISCHARGE (Q100)	8.20 CFS
OVERTOPPING ELEV.	1071.74
ALLOWABLE HEADWATER ELEV.	1072.39
Q50 HEADWATER ELEV.	1071.22
Q100 HEADWATER ELEV.	1071.36
VELOCITY (Q50)	10.35 FT/S
INLET ELEVATION	1069.52
OUTLET ELEVATION	1067.39
INLET DRAWING NUMBERS	D-PE-18A, D-PE-18B
OUTLET DRAWING NUMBERS	D-PE-18A, D-PE-18B
CLASS "A" CONCRETE	1.74 C.Y.
STEEL BAR REINFORCING	158 LB.
FLOWABLE FILL	3 C.Y.



MINE LICK CREEK RD.
STA. 98+58.00

STATION	90+03.81
STRUCTURE	63' OF 18" RCP
SKEW	35°00'00" RT.
DRAINAGE AREA	4.29 AC.
DESIGN DISCHARGE (Q50)	8.92 CFS
DESIGN DISCHARGE (Q100)	9.78 CFS
OVERTOPPING ELEV.	1068.19
ALLOWABLE HEADWATER ELEV.	1066.44
Q50 HEADWATER ELEV.	1065.81
Q100 HEADWATER ELEV.	1065.98
VELOCITY (Q50)	6.13 FT/S
INLET ELEVATION	1063.94
OUTLET ELEVATION	1063.63
INLET DRAWING NUMBERS	D-PE-18A, D-PE-18B
OUTLET DRAWING NUMBERS	D-PE-18A, D-PE-18B
CLASS "A" CONCRETE	1.74 C.Y.
STEEL BAR REINFORCING	158 LB.
FLOWABLE FILL	3 C.Y.



MINE LICK CREEK RD.
STA. 90+03.81

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

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

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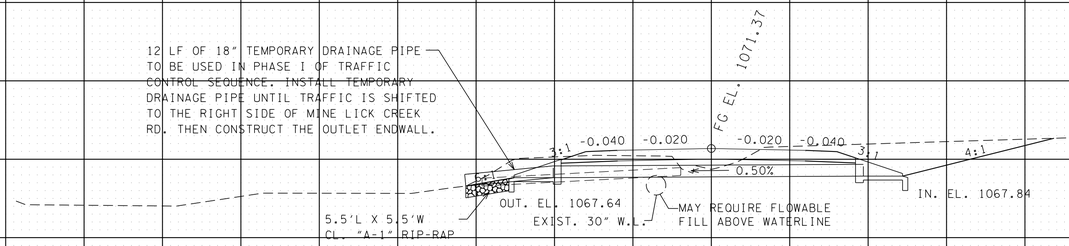
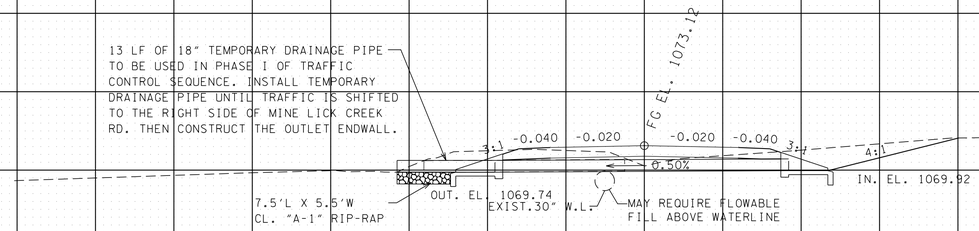
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	10A
CONST.	2015	71952-3543-04	10A

STATION	106+05.00
STRUCTURE	40' OF 18" RCP
SKEW	90°00'00"
DRAINAGE AREA	0.91 AC.
DESIGN DISCHARGE (Q50)	3.40 CFS
DESIGN DISCHARGE (Q100)	3.72 CFS
OVERTOPPING ELEV.	1068.72
ALLOWABLE HEADWATER ELEV.	1069.67
Q50 HEADWATER ELEV.	1068.82
Q100 HEADWATER ELEV.	1068.86
VELOCITY (Q50)	4.32 FT/S
INLET ELEVATION	1067.84
OUTLET ELEVATION	1067.64
INLET DRAWING NUMBERS	D-PE-18A, D-PE-18B
OUTLET DRAWING NUMBERS	D-PE-18A, D-PE-18B
CLASS "A" CONCRETE	1.74 C.Y.
STEEL BAR REINFORCING	158 LB.
FLOWABLE FILL	3 C.Y.



MINE LICK CREEK RD.
STA. 106+05.00

STATION	102+05.00
STRUCTURE	38' OF 18" RCP
SKEW	90°00'00"
DRAINAGE AREA	0.21 AC.
DESIGN DISCHARGE (Q50)	0.94 CFS
DESIGN DISCHARGE (Q100)	1.03 CFS
OVERTOPPING ELEV.	1070.49
ALLOWABLE HEADWATER ELEV.	1071.14
Q50 HEADWATER ELEV.	1070.41
Q100 HEADWATER ELEV.	1070.44
VELOCITY (Q50)	3.06 FT/S
INLET ELEVATION	1069.92
OUTLET ELEVATION	1069.74
INLET DRAWING NUMBERS	D-PE-18A, D-PE-18B
OUTLET DRAWING NUMBERS	D-PE-18A, D-PE-18B
CLASS "A" CONCRETE	1.74 C.Y.
STEEL BAR REINFORCING	158 LB.
FLOWABLE FILL	3 C.Y.



MINE LICK CREEK RD.
STA. 102+05.00

1080 1070 1060 1050

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

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

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

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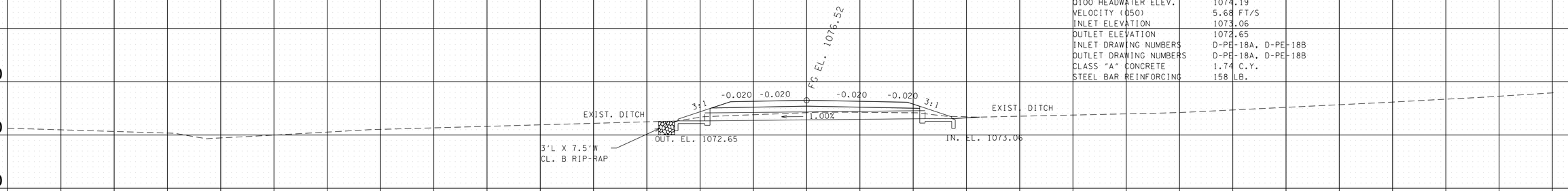
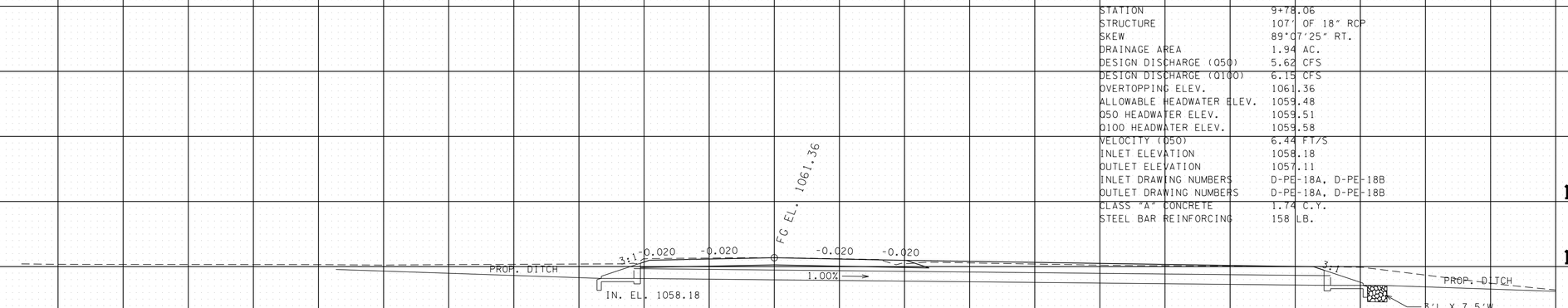
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	10B
CONST.	2015	71952-3543-04	10B

STATION	19+68.16
STRUCTURE	42' OF 18" RCP
SKEW	80°09'09" LT.
DRAINAGE AREA	1.43 AC.
DESIGN DISCHARGE (Q50)	3.69 CFS
DESIGN DISCHARGE (Q100)	4.03 CFS
OVERTOPPING ELEV.	1076.11
ALLOWABLE HEADWATER ELEV.	1074.71
Q50 HEADWATER ELEV.	1074.13
Q100 HEADWATER ELEV.	1074.19
VELOCITY (Q50)	5.68 FT/S
INLET ELEVATION	1073.06
OUTLET ELEVATION	1072.65
INLET DRAWING NUMBERS	D-PE-18A, D-PE-18B
OUTLET DRAWING NUMBERS	D-PE-18A, D-PE-18B
CLASS "A" CONCRETE	1.74 C.Y.
STEEL BAR REINFORCING	158 LB.



MIKE MAXWELL RD.
STA 19+68.16

STATION	9+78.06
STRUCTURE	107' OF 18" RCP
SKEW	89°07'25" RT.
DRAINAGE AREA	1.94 AC.
DESIGN DISCHARGE (Q50)	5.62 CFS
DESIGN DISCHARGE (Q100)	6.15 CFS
OVERTOPPING ELEV.	1061.36
ALLOWABLE HEADWATER ELEV.	1059.48
Q50 HEADWATER ELEV.	1059.51
Q100 HEADWATER ELEV.	1059.58
VELOCITY (Q50)	6.44 FT/S
INLET ELEVATION	1058.18
OUTLET ELEVATION	1057.11
INLET DRAWING NUMBERS	D-PE-18A, D-PE-18B
OUTLET DRAWING NUMBERS	D-PE-18A, D-PE-18B
CLASS "A" CONCRETE	1.74 C.Y.
STEEL BAR REINFORCING	158 LB.



HEARTLAND LN.
STA 9+78.06

UNOFFICIAL SET
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

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

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	11
CONST.	2015	71952-3543-04	11

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

KNOWN EXCEPTIONAL TENNESSEE WATERS

(1) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, AN OUTFALL IN A DRAINAGE AREA OF 5 ACRES OR MORE, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT.

(2) FOR PROJECTS THAT DISCHARGE INTO KNOWN EXCEPTIONAL TENNESSEE WATERS OR WATERS IMPAIRED BY SILTATION, A 60 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM WITH THIS DESIGNATION SHALL BE PRESERVED, TO THE MAXIMUM EXTENT PRACTICABLE, DURING CONSTRUCTION ACTIVITIES AT THE SITE. BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. THE 60 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 30 FEET AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

NPDES

(3) NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC DEVICES ON THE EPSC PLAN CONTAINED IN THE APPROVED SWPPP.

(4) THE EPSC MEASURES AND/OR PLAN SHALL BE MODIFIED AS NECESSARY SO THAT THEY ARE EFFECTIVE AT ALL TIMES THROUGHOUT THE COURSE OF THE PROJECT.

(5) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES, INCLUDING WITHOUT LIMITATION AS FOLLOWS:

A. INITIAL CLEARING AND GRUBBING SHALL BE LIMITED TO THAT NECESSARY FOR THE INSTALLATION OF APPLICABLE EPSC MEASURES IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

B. NO OTHER CLEARING AND GRUBBING OPERATIONS SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

C. NO CULVERT OR BRIDGE CONSTRUCTION SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

D. NO GRADING, EXCAVATION, CUTTING, FILLING, OR OTHER EARTHWORK SHALL BE STARTED BEFORE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

(6) PERMANENT EPSC MEASURES SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 14 CALENDAR DAYS. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.

(7) STEEP SLOPES (A NATURAL OR CREATED SLOPE OF 35% GRADE (2.8H:1V) OR GREATER REGARDLESS OF HEIGHT) SHALL BE TEMPORARILY STABILIZED NO LATER THAN 7 CALENDAR DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED.

(8) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SUPPORT ACTIVITIES; TDOT PROJECTS ARE COVERED UNDER THE "WASTE AND BORROW" MANUAL PER THE SSWMP.

(9) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

UTILITY RELOCATION

(10) RAIN WATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND MAINTAINED.

(11) SILT FENCE SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF STOCKPILED SOIL. TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING NO FLOW CONDITIONS AND STABILIZED BY THE END OF THE WORK DAY

(12) UTILITY CROSSINGS FOR PERENNIAL STREAMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO UTILITIES IN THIS PROJECT IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC). THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLANS (SWPPP).

(13) IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR INSTALLER TO PROTECT FROM EROSION EXPOSED EARTH RESULTING FROM THEIR OPERATIONS AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.

(14) FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN SEVEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOIL OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL SUCH TIME AS THE TRENCH IS BACKFILLED.

(15) IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC), TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS IN THIS PROJECT, THEREFORE, THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTIONS PREVENTION PLANS (SWPPP). THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT WORK.

(16) TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORM WATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.

(17) FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.

(18) THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS (AS APPROVED BY THE TDOT PROJECT ENGINEER).

(19) THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES TO REPLACE IN-PLACE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT PROJECT ENGINEER BEFORE COMMENCING WORK.

POLYACRYLAMIDE

(20) ENSURE POLYACRYLAMIDE (PAM) EMULSIONS AND POWDERS ARE OF THE ANIONIC TYPE AND MEET THE FOLLOWING REQUIREMENTS:

(21) MEETS THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF EQUAL TO OR GREATER THAN 0.005% ACRYLAMIDE MONOMER.

(22) HAS A DENSITY OF 10% TO 55% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MG/MOLE.

(23) MIXTURE IS NON-COMBUSTIBLE.

(24) CONTAINS ONLY MANUFACTURER'S RECOMMENDED ADDITIVES.

(25) PAM SHALL BE MIXED AND APPLIED IN ACCORDANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) MATERIAL SAFETY DATA SHEET (MSDS) REQUIREMENTS AND THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIED USES CONFORMING TO ALL FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS.

(26) ALL VENDERS AND SUPPLIERS OF PAM, PAM MIX, OR PAM BLENDS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT WHICH VERIFIES THAT THE PAM, PAM MIX, PAM BLEND EXHIBITS ACCEPTABLE TOXICITY PARAMETERS WHICH MEET OR EXCEED THE EPA REQUIREMENTS FOR THE STATE AND FEDERAL WATER QUALITY STANDARDS. WHOLE EFFLUENT TESTING DOES NOT MEET THIS REQUIREMENT AS PRIMARY REACTIONS HAVE OCCURRED AND TOXIC POTENTIALS HAVE BEEN REDUCED. CATIONIC FORMS OF PAM ARE NOT ALLOWED FOR UNDER THIS GUIDELINE DUE TO THEIR HIGH LEVELS OF TOXICITY TO AQUATIC ORGANISMS. PAM EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS DUR TO SURFACTANT TOXICITY. CONTRACTOR MUST SEEK THE APPROVAL OF THE EPSC DESIGN ENGINEER AND TDOT IF CHITOSAN IS PROPOSED FOR USE ON THIS PROJECT.

(27) ALL VENDORS AND SUPPLIERS OF PAM, PAM MIX, OR PAM BLENDS SHALL SUPPLY WRITTEN "SITE SPECIFIC" TESTING RESULTS DEMONSTRATING THAT A PERFORMANCE OF 95% OR GREATER REDUCTION OF NTU OR TSS FROM STORMWATER DISCHARGES.

(28) EMULSION BATCHES SHALL BE MIXED FOLLOWING RECOMMENDATIONS OF A TESTING LABORATORY THAT DETERMINES THE PROPER PRODUCT AND RATE TO MEET SITE REQUIREMENTS. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA. EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS.

(29) PAM POWDER MAY BE APPLIED BY A HAND SPREADER OR A MECHANICAL SPREADER. MIXING PAM POWDER WITH DRY SILICA SAND WILL AID IN SPREADING.

(30) PREMIXING OF PAM POWDER INTO FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS IS ALLOWED WHEN SPECIFIED IN THE DESIGN PLAN. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA.

(31) PAM LOGS OR BLOCKS SHALL BE APPLIED FOLLOWING SITE TESTING RESULTS TO ENSURE PROPER PLACEMENT AND PERFORMANCE AND SHALL MEET OR EXCEED STATE AND FEDERAL WATER QUALITY REQUIREMENTS.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN NOTES

4/23/2015 9:46:48 AM G:\HDI170.05\CAD\PU-MLC-EPSC 001.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	11A
CONST.	2015	71952-3543-04	11A

EROSION CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	PHASE 1 QUANTITY	PHASE 2 QUANTITY	PHASE 3 QUANTITY	TOTAL
(1)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	114			114
	209-05	SEDIMENT REMOVAL	C.Y.			255	255
(2)	209-08.02	TEMPORARY SILT FENCE (W/ BACKING)	L.F.	1865	78		1943
	209-08.03	TEMPORARY SILT FENCE (W/O BACKING)	L.F.	2976	2181		5157
	209-08.07	ROCK CHECK DAM PER	EACH	6		10	16
(14)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	11	1	7	19
(3)	209-09.01	SANDBAGS	BAGS		960		960
	209-09.03	SEDIMENT FILTER BAGS (15' X 15')	EACH		1		1
(4)	209-09.22	POLYACRYLAMIDE POWDER	LB.			344	344
	209-10.20	TEMPORARY SEDIMENT TRAP	C.Y.			126	126
(3)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.		53		53
	209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.		24		24
(5)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	25	17	25	68
(6)	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	30			30
(7)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	415			665
(8)	709-05.05	MACHINED RIPRAP (CLASS A-3)	TON	200			200
(9)	709-05.06	MACHINED RIPRAP (CLASS A-1)	TON	136	7	136	280
(10)	740-10.03	GEOTEXTILE TYPE III (EROSION CONTROL)	S.Y.	618	128	323	1069
	740-11.02	SEDIMENT TUBE (12")	L.F.		200	440	640
	740-11.03	SEDIMENT TUBE (18")	L.F.	2426	164	8372	10962
	740-11.04	SEDIMENT TUBE (20")	L.F.	2385		2205	4590
(11)	801-01	SEEDING (WITH MULCH)	UNIT			4	4
(4)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	93	93	93	279
(12)	801-02	SEEDING (WITHOUT MULCH)	UNIT			48	48
	801-03	WATER (SEEDING & SODDING)	M.G.			33	33
(4)	801-07	SEED (SUPPLEMENTAL APPLICATION)	LB.			12	12
(4)	801-08	FERTILIZER (SUPPLEMENTAL APPLICATION)	TON			1	1
(13)	803-01	SODDING (NEW SOD)	S.Y.			10330	10330
(15)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.			4281	4281

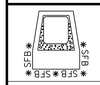
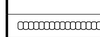
(1) 114 C.Y. FOR CONSTRUCTION EXITS.
(2) 100 L.F. FOR SEDIMENT FILTER BAGS.
(3) FOR USE WITH TEMPORARY DIVERSION CHANNEL & SANDBAG BERMS.
(4) TO BE USED AS DIRECTED BY PROJECT ENGINEER.
(5) 50 TONS FOR CULVERT PROTECTION AND 17 TONS FOR SEDIMENT FILTER BAGS.
(6) 30 L.F. FOR CONSTRUCTION EXITS.
(7) INCLUDES 415 L.F. FOR BUFFER PROTECTECTION AND 250 FT TO BE USED AS DIRECTED BY PROJECT ENGINEER.
(8) FOR TEMPORARY CONSTRUCTION EXITS.
(9) 272.4 TON FOR CULVERT PROTECTION, AND 7.4 TONS DIVERSION CHANNELS.
(10) INCLUDES 295 S.Y. FOR T.C.E., 105 S.Y. FOR SED. FILTER BAGS, 23 S.Y. FOR TEMP. DIV. CHANNELS, 646 S.Y. FOR CULVERT PROTECTION.
(11) FOR USE ON SCARIFIED AREAS.
(12) TO BE USED WITH EROSION CONTROL BLANKET TYPE II.
(13) TO BE USED FOR FINAL STABILIZATION OF ALL SLOPES. WHEN THE PLANS CALL FOR EROSION CONTROL BLANKET (TYPE II) FOR DITCHLINING, SODDING (NEW SOD) MAY BE ALLOWED AS AN ALTERNATIVE AS DIRECTED BY THE ENGINEER. INCLUDES 10330 S.Y. FOR SLOPES.
(14) INCLUDES 1 EACH TO BE USED FOR SEDIMENT TRAP WITH CHECK DAM
(15) INCLUDES 4281 S.Y. FOR MISCELLANEOUS AREAS.

SEDIMENT TRAP WITH CHECK DAM

SHEET NO.	LOCATION	STATION	PHASE	LT/RT	DESCRIPTION	TEMPORARY SEDIMENT TRAP 209-10.20 (C.Y.)	MACHINED RIP-RAP (CLASS A-1) (1) (TON)	GEOTEXTILE (TYPE III) (EROSION CONTROL) (1) (S.Y.)	ENHANCED ROCK CHECK DAM (EACH) 209-08.08 (S.Y.)
13B	MINE LICK CREEK RD.	90+15	3	RT	34 X 17 X 4	125.9	68.4	106.3	1
TOTALS						**126**	**68**	**106**	**1**

(1) QUANTITY AND COST TO BE INCLUDED IN ITEM 209-10.20

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
	SEDIMENT FILTER BAG	EC-STR-2
✱ SF ✱ SF ✱ SF ✱	SILT FENCE	EC-STR-3B
✱ SFB ✱ SFB ✱ SFB ✱	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM	EC-STR-7
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	TEMPORARY DIVERSION CHANNEL (2' F.B. - E.C.B. II)	EC-STR-31
	SAND BAG BERM	EC-STR-31
✱✱ TUBE ✱✱ TUBE ✱✱	SEDIMENT TUBE	EC-STR-37
	SEDIMENT TUBE (DITCH APPLICATION)	EC-STR-37
✱ HVF ✱ HVF	HIGH VISIBILITY FENCE	S-F-1
	SEDIMENT TUBE INLET PROTECTION	EC-STR-37

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EPSC QUANTITIES

DETAILS & LEGEND

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	12
CONST.	2015	71952-3543-04	12

STORM WATER OUTFALL DRAINAGE AREAS

STAGE 1			
OUTFALL	AREA (AC.)	DIST. AREA (AC.)	SLOPE (FT/FT)
1	2.044	0.455	0.04
2	0.124	0.124	0.02
3	0.178	0.178	0.05
4	0.070	0.051	0.02
5	0.151	0.151	0.09
6	4.113	0.563	0.25
7	0.153	0.153	0.06
8	3.235	0.396	0.05
9	0.708	0.318	0.02
10	1.597	1.176	0.02
11	0.053	0.053	0.04
12	0.205	0.205	0.04
14	1.612	0.541	0.06

BEGIN PROJ. CONST.
STA. 72+47.00
71952-3543-04
N:654784.8354
E:2087311.5877

ALL SILT FENCE AND SILT FENCE WITH BACKING NOT SHOWN ALONG A CONTOUR SHALL HAVE J-HOOKS ADDED ALONG CONTOURS.

ALL SEPTIC OFF PROJECT

ALL SEPTIC OFF PROJECT

ALL SEPTIC OFF PROJECT

ALL SEPTIC OFF PROJECT

ALL SEPTIC OFF PROJECT

ALL SEPTIC OFF PROJECT

ALL SEPTIC OFF PROJECT

ALL SEPTIC OFF PROJECT

75

80

EXIST. HEARTLAND LN. (ASP.) S 35° 32' 49" E

PRES. R.O.W.

PRES. R.O.W.

LIMIT OF CONST. 9+56.00

1-F-RES.

1-F-RES.

GARAGE

GRV.

WOOD FENCE

GRV.

GRV.

BARBWIRE

GATE

SHED

BARBWIRE

CONC.

OLD ABANDONED WELLHOUSE

ASP.

GRV.

WIRE

PLANTER

PLANTER

PLANTER

GARDEN

ASP.

ASP.

PRES. R.O.W.

EXIST. MINE LICK CREEK RD. (ASP.)
N 53° 38' 50" E
℄ MINE LICK CREEK RD.

OUT - 1

OUT - 2

OUT - 3

OUT - 4

OUT - 5

12 CMP

MINE LICK CREEK RD.

N 54° 55' 31" E

PROPOSED R.O.W.

PROP. SLOPE ESMT.

PROP. CONST. ESMT.

PROPOSED R.O.W.

PROP. CONST. ESMT.

PROP. SLOPE ESMT.

PROP. CONST. ESMT.

BEGIN PROJ. R.O.W.
STA. 72+46.09
71952-2543-04
N:654784.3125
E:2087310.8430

MINE LICK CREEK RD. STA. 74+82.89 =
HEARTLAND LN. STA. 10+00.00
N 654920.3885
E 2087504.6408

P.I. STA. 78+46.24
N 655129.1855
E 2087802.0067
Δ 01°16'40.79" LT.

ACADEMY SPORTS
PROPOSED SITE

MATCHLINE 85+00 SEE SHT. 13

UNOFFICIAL SET

NOT FOR BIDDING

STAGE 1
CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.72+47 TO STA.85+00

SCALE: 1"=50'

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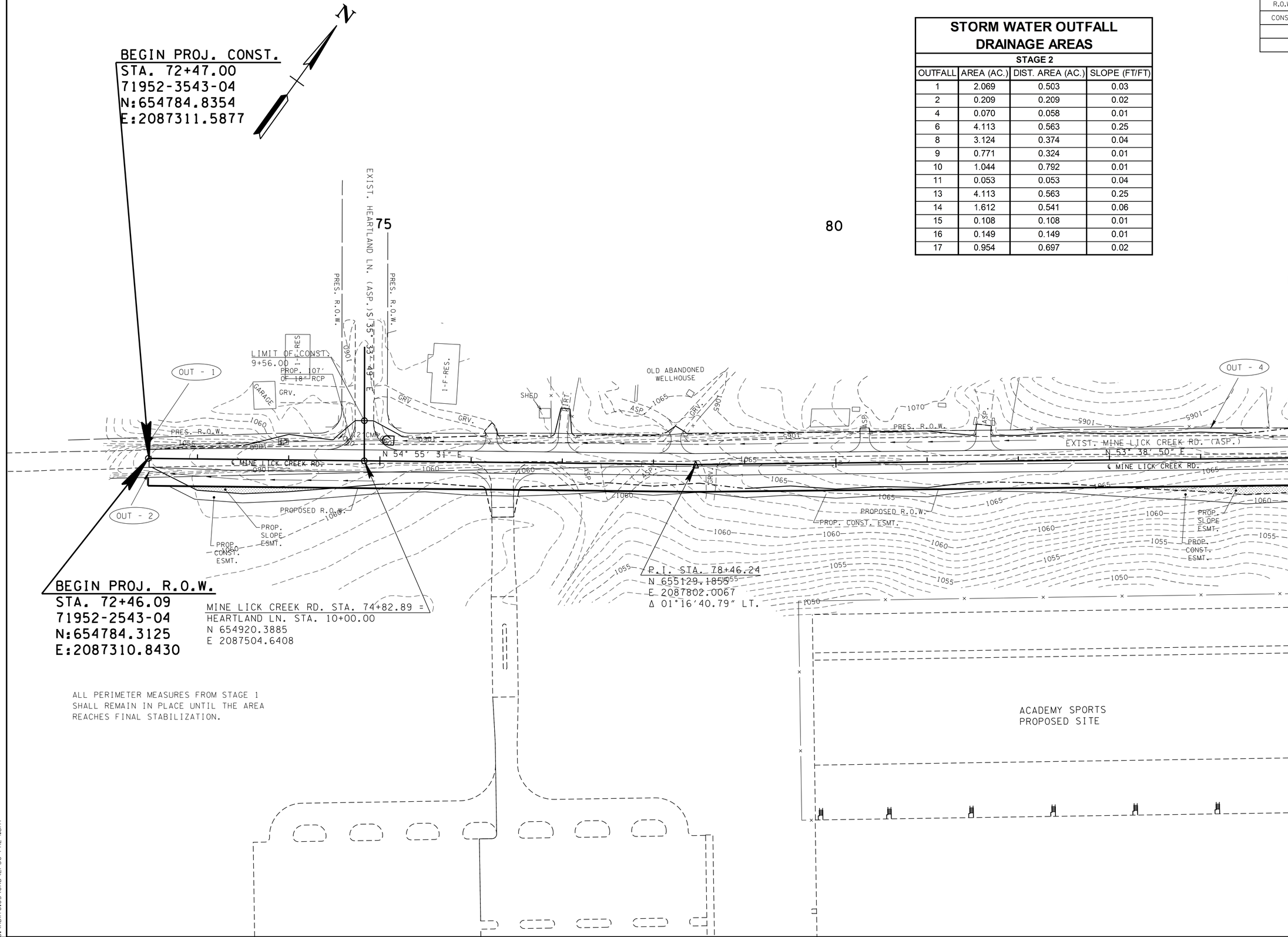
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	12A
CONST.	2015	71952-3543-04	12A

STORM WATER OUTFALL DRAINAGE AREAS

STAGE 2

OUTFALL	AREA (AC.)	DIST. AREA (AC.)	SLOPE (FT/FT)
1	2.069	0.503	0.03
2	0.209	0.209	0.02
4	0.070	0.058	0.01
6	4.113	0.563	0.25
8	3.124	0.374	0.04
9	0.771	0.324	0.01
10	1.044	0.792	0.01
11	0.053	0.053	0.04
13	4.113	0.563	0.25
14	1.612	0.541	0.06
15	0.108	0.108	0.01
16	0.149	0.149	0.01
17	0.954	0.697	0.02



ALL PERIMETER MEASURES FROM STAGE 1 SHALL REMAIN IN PLACE UNTIL THE AREA REACHES FINAL STABILIZATION.

UNOFFICIAL SET

NOT FOR BIDDING

STAGE 2
INTERMEDIATE GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.72+47 TO STA.85+00

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	12B
CONST.	2014	71952-3543-04	12B

STORM WATER OUTFALL DRAINAGE AREAS

STAGE 3			
OUTFALL	AREA (AC.)	DIST. AREA (AC.)	SLOPE (FT/FT)
1	2.306	0.734	0.03
2	0.187	0.187	0.02
4	0.107	0.095	0.01
8	3.286	0.534	0.04
9	0.814	0.367	0.01
10	1.032	0.780	0.01
11	0.067	0.067	0.04
13	4.113	0.563	0.25
14	1.612	0.541	0.06
15	0.074	0.074	0.01
16	0.108	0.108	0.01
17	0.787	0.529	0.02
18	0.154	0.154	0.04

BEGIN PROJ. CONST.
STA. 72+47.00
71952-3543-04
N:654784.8354
E:2087311.5877

ALL PERIMETER MEASURES FROM STAGE 1 SHALL REMAIN IN PLACE UNTIL THE AREA REACHES FINAL STABILIZATION.

75

80

HEARTLAND LN.

S 35° 33' 49" E

PRES. R.O.W.

PRES. R.O.W.

1-F-RES.

LIMIT OF CONST.
9+56.00

PROP. 107' OF 18" RCP

GARAGE

OUT - 1

OUT - 4

OUT - 2

OLD ABANDONED WELLHOUSE

SHED

PRES. R.O.W.

℄ MINE LICK CREEK RD.

N 54° 55' 31" E

N 53° 38' 50" E

PROPOSED R.O.W.

PROP. SLOPE ESMT.

PROP. CONST. ESMT.

PROP. CONST. ESMT.

PROP. SLOPE ESMT.

PROPOSED R.O.W.

PROP. CONST. ESMT.

BEGIN PROJ. R.O.W.
STA. 72+46.09
71952-2543-04
N:654784.3125
E:2087310.8430

MINE LICK CREEK RD. STA. 74+82.89 =
HEARTLAND LN. STA. 10+00.00
N 654920.3885
E 2087504.6408

ACADEMY SPORTS ENTRANCE

P.I. STA. 78+46.24
N 655129.1855
E 2087802.0067
Δ 01°16'40.79" LT.

ITEM NO. 803-01 SODDING (NEW SOD) SHALL BE PLACED WITHIN THE SLOPE LIMITS THROUGHOUT THIS PROJECT.

ITEM NO. 801-02 SEEDING (WITHOUT MULCH) & ITEM NO. 805-12.02 EROSION CONTROL BLANKET (TYPE II) SHALL BE USED AS DIRECTED OUTSIDE THE SLOPE LIMITS.

ACADEMY SPORTS
PROPOSED SITE

MATCHLINE 85+00 SEE SHT. 13B

UNOFFICIAL SET

NOT FOR BIDDING

STAGE 3
FINAL STABILIZATION

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.72+47 TO STA.85+00

SCALE: 1"=50'

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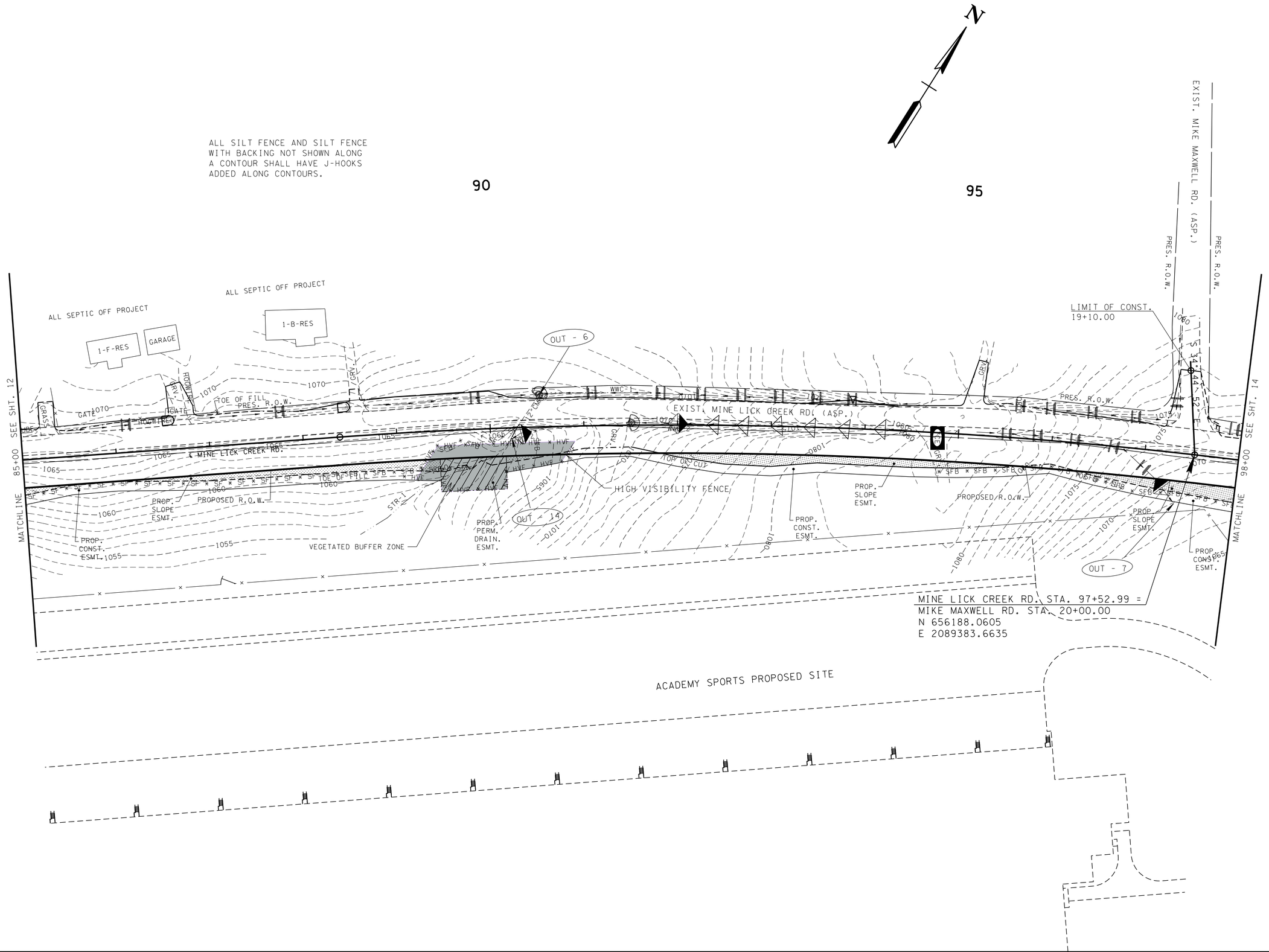
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	13
CONST.	2015	71952-3543-04	13



UNOFFICIAL SET

NOT FOR BIDDING

STAGE I
CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.85+00 TO STA.98+00

SCALE: 1"=50'

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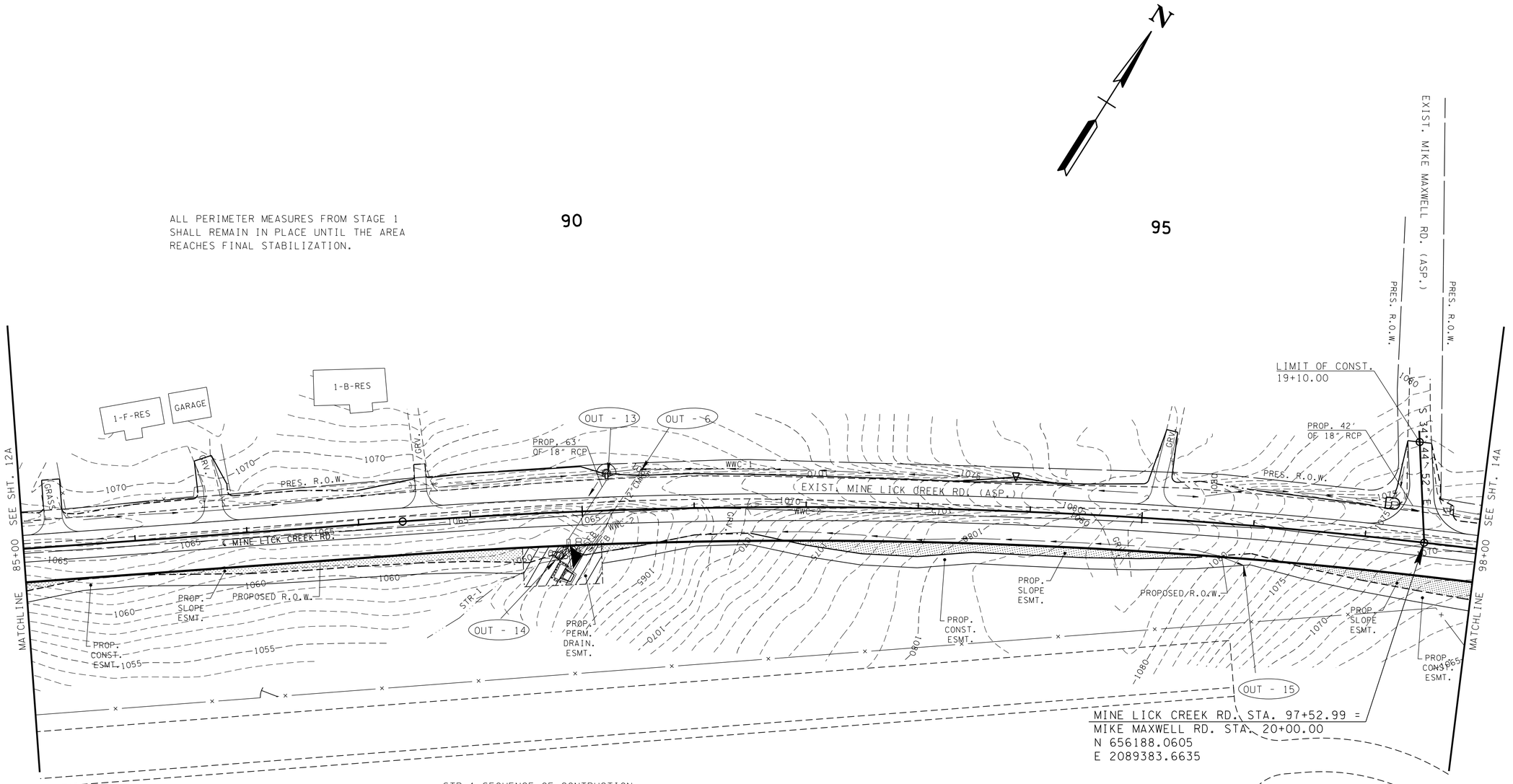
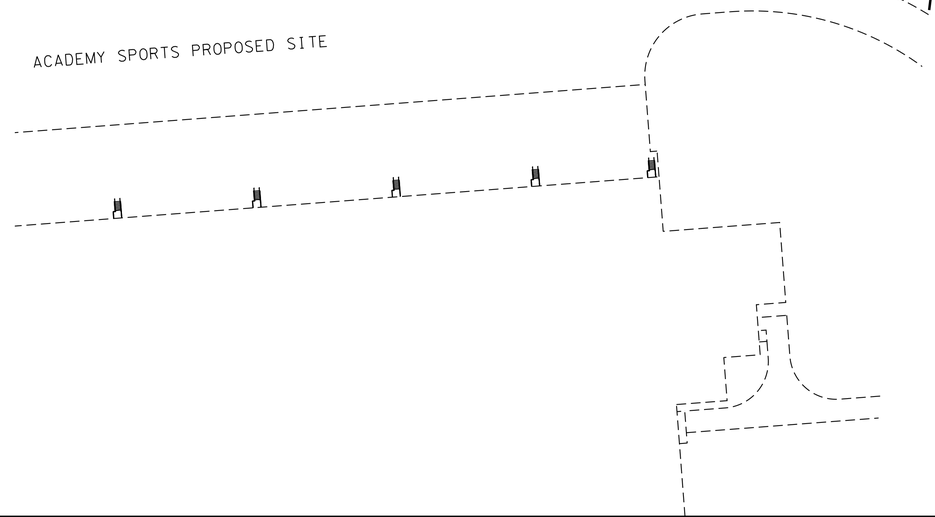
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	13A
CONST.	2015	71952-3543-04	13A

ALL PERIMETER MEASURES FROM STAGE 1 SHALL REMAIN IN PLACE UNTIL THE AREA REACHES FINAL STABILIZATION.



STR-1 SEQUENCE OF CONTRUCTION

1. CONSTRUCT V DITCH FROM RT OF STA. 89+71 TO RT OF STA. 91+00.
2. CONSTRUCT TEMPORARY DIVERSION CHANNEL AS SHOWN ON THE PLANS FROM NEAR THE OUTLET OF THE 12" CMP TO THE NEWLY CONSTRUCTED V DITCH. THIS WILL DIVERT THE FLOW AWAY FROM THE OUTLET OF THE PROPOSED 18" RCP.
3. CONSTRUCT A SANDBAG BERM BETWEEN THE DIVERSION AND THE OUTLET OF THE PROPOSED RCP.
4. PUMP ANY WATER BETWEEN THE PROPOSED OUTLET AND THE SANDBAG BERM SO THAT THE PROPOSED 18" PIPE AND ENDWALLS CAN BE CONSTRUCTED IN THE DRY. THE WATER SHALL BE PUMPED THROUGH THE SEDIMENT FILTER BAG BEFORE BEING RELEASED INTO STR-1.
5. CONSTRUCT PROPOSED 18" RCP AND OUTLET ENDWALL.
6. DIVERT FLOW THROUGH THE NEWLY CONSTRUCTED 18" RCP.
7. REMOVE EXISTING 12" CMP.
8. CONSTRUCT THE RIGHT SIDE OF PROPOSED MINE LICK CREEK RD.



UNOFFICIAL SET

NOT FOR BIDDING

STAGE 2
INTERMEDIATE GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.85+00 TO STA.98+00

SCALE: 1"=50'

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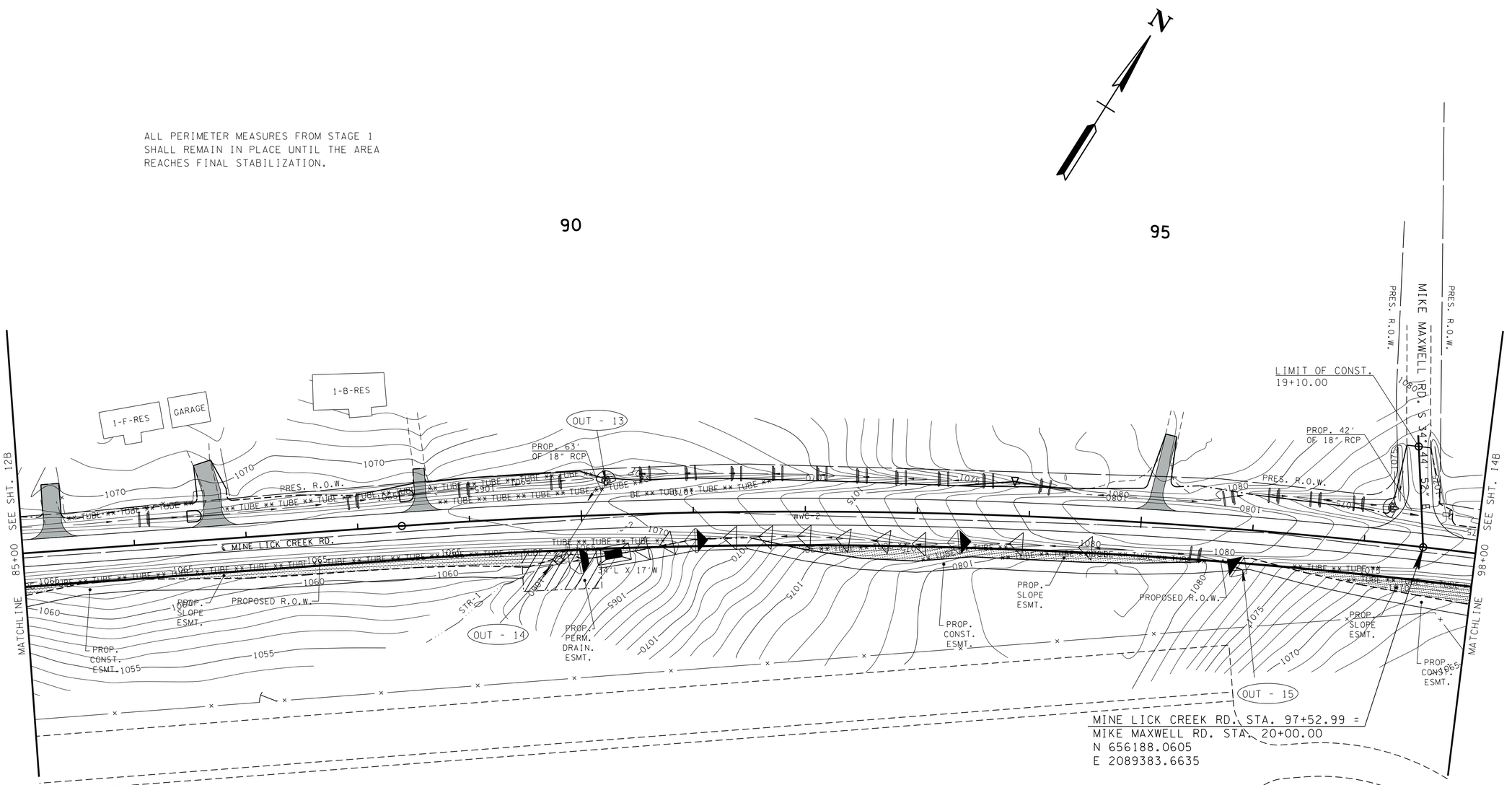
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	13B
CONST.	2015	71952-3543-04	13B

ALL PERIMETER MEASURES FROM STAGE 1 SHALL REMAIN IN PLACE UNTIL THE AREA REACHES FINAL STABILIZATION.



ITEM NO. 803-01 SODDING (NEW SOD) SHALL BE PLACED WITHIN THE SLOPE LIMITS THROUGHOUT THIS PROJECT.

ITEM NO. 801-02 SEEDING (WITHOUT MULCH) & ITEM NO. 805-12.02 EROSION CONTROL BLANKET (TYPE II) SHALL BE USED AS DIRECTED OUTSIDE THE SLOPE LIMITS.

UNOFFICIAL SET

NOT FOR BIDDING

STAGE 3
FINAL STABILIZATION

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STA.85+00 TO STA.98+00

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	14
CONST.	2015	71952-3543-04	14

REV. 4/27/2015:
ADDED 20' FIELD ENTRANCE AT STA. 109+03 FOR TRACT 2.

ALL SILT FENCE AND SILT FENCE WITH BACKING NOT SHOWN ALONG A CONTOUR SHALL HAVE J-HOOKS ADDED ALONG CONTOURS.

N

100 105 110

ALL SEPTIC OFF PROJECT

ALL SEPTIC OFF PROJECT

ALL SEPTIC OFF PROJECT

ALL SEPTIC OFF PROJECT

1 BR CHURCH

1 FR CHURCH

OUT - 9

OUT - 10

OUT - 11

OUT - 12

OUT - 8

HOGWIRE FENCE

PLANTER

WWC-3B

WWC-3A

WWC-4

PRES. R.O.W.

EXIST. MINE LICK CREEK RD. (ASP.)

N 66° 24' 15" E

℄ MINE LICK CREEK RD.

BARBWIRE

PROPOSED R.O.W.

GARAGE (TO BE DEMOLISHED BY OTHERS)

CONC.

PROPOSED R.O.W.

2 STY RES. (TO BE DEMOLISHED BY OTHERS)

WELL HOUSE

PROP. CONST. ESMT.

PROP. SLOPE ESMT.

PROP. PERM. DRAIN. ESMT.

PROP. SLOPE ESMT.

GARAGE

LIMIT OF CONST. 30+40.00

MATCHLINE 98+00 SEE SHT. 13

S 23° 44' 07" E EXIST. OLD STEWART RD. (ASP.)

PRES. R.O.W.

PRES. R.O.W.

MINE LICK CREEK RD. STA. 101+40.75 = OLD STEWART RD. STA. 30+00.00
N 656346.2764
E 2089737.6509

END PROJ. CONST.
STA. 111+00.00
71952-3543-04
N:656728.6073
E:2090617.3993

END PROJ. R.O.W.
STA. 113+00.00
71952-2543-04
N:656803.8014
E:2090802.7228

UNOFFICIAL SET

NOT FOR BIDDING

STAGE I
CLEARING & GRUBBING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL
PROPOSED CONTOURS

STA.98+00 TO STA.111+00
SCALE: 1"= 50'

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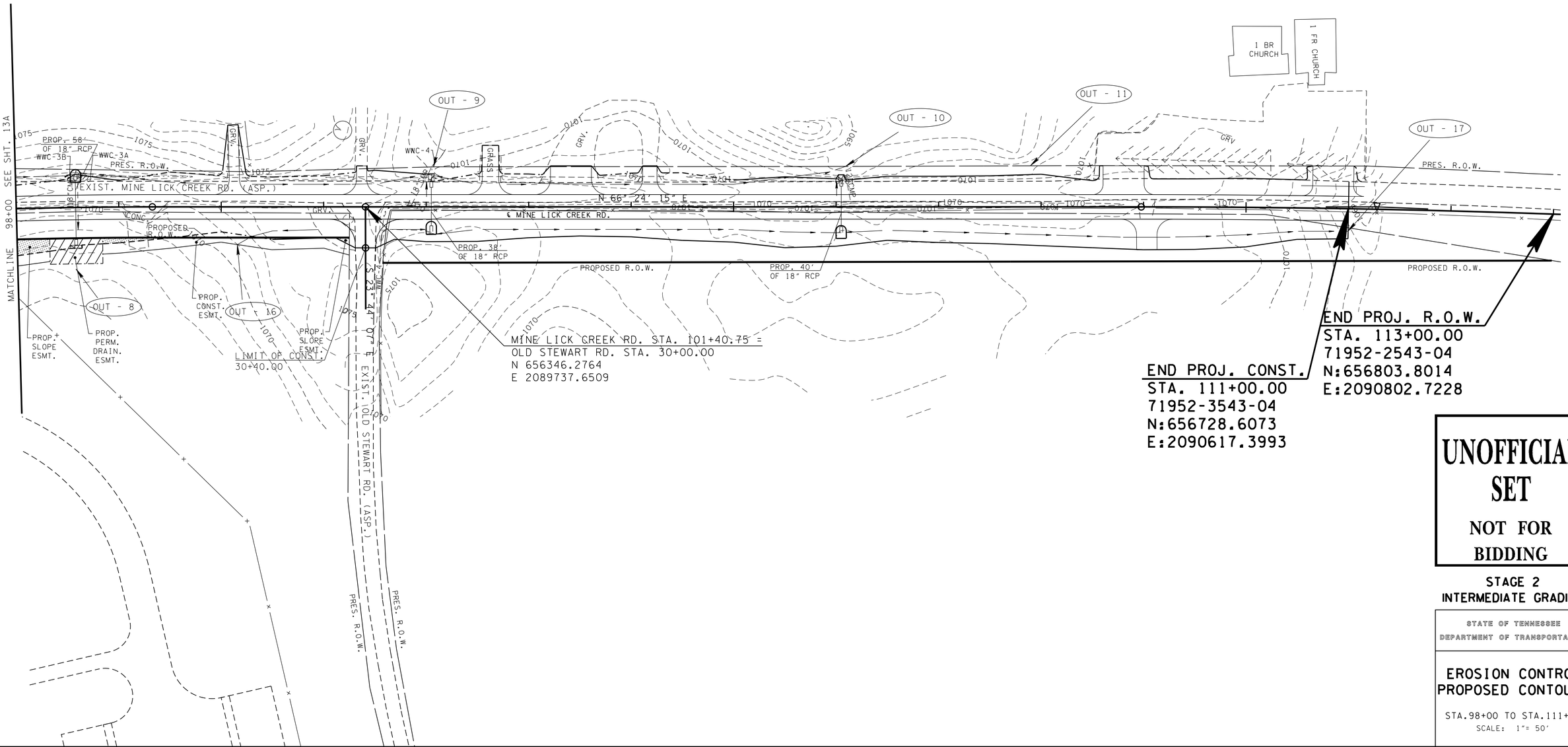
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	14A
CONST.	2015	71952-3543-04	14A

REV. 4/27/2015:
ADDED 20' FIELD ENTRANCE AT STA. 109+03 FOR TRACT 2.

N

ALL PERIMETER MEASURES FROM STAGE 1 SHALL REMAIN IN PLACE UNTIL THE AREA REACHES FINAL STABILIZATION.

100 105 110



UNOFFICIAL SET

NOT FOR BIDDING

STAGE 2
INTERMEDIATE GRADING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL
PROPOSED CONTOURS

STA.98+00 TO STA.111+00
SCALE: 1"= 50'

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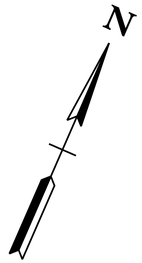
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	14B
CONST.	2015	71952-3543-04	14B

REV. 4/27/2015:
ADDED 20' FIELD ENTRANCE AT STA. 109+03 FOR TRACT 2.

ALL PERIMETER MEASURES FROM STAGE 1 SHALL REMAIN IN PLACE UNTIL THE AREA REACHES FINAL STABILIZATION.



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105

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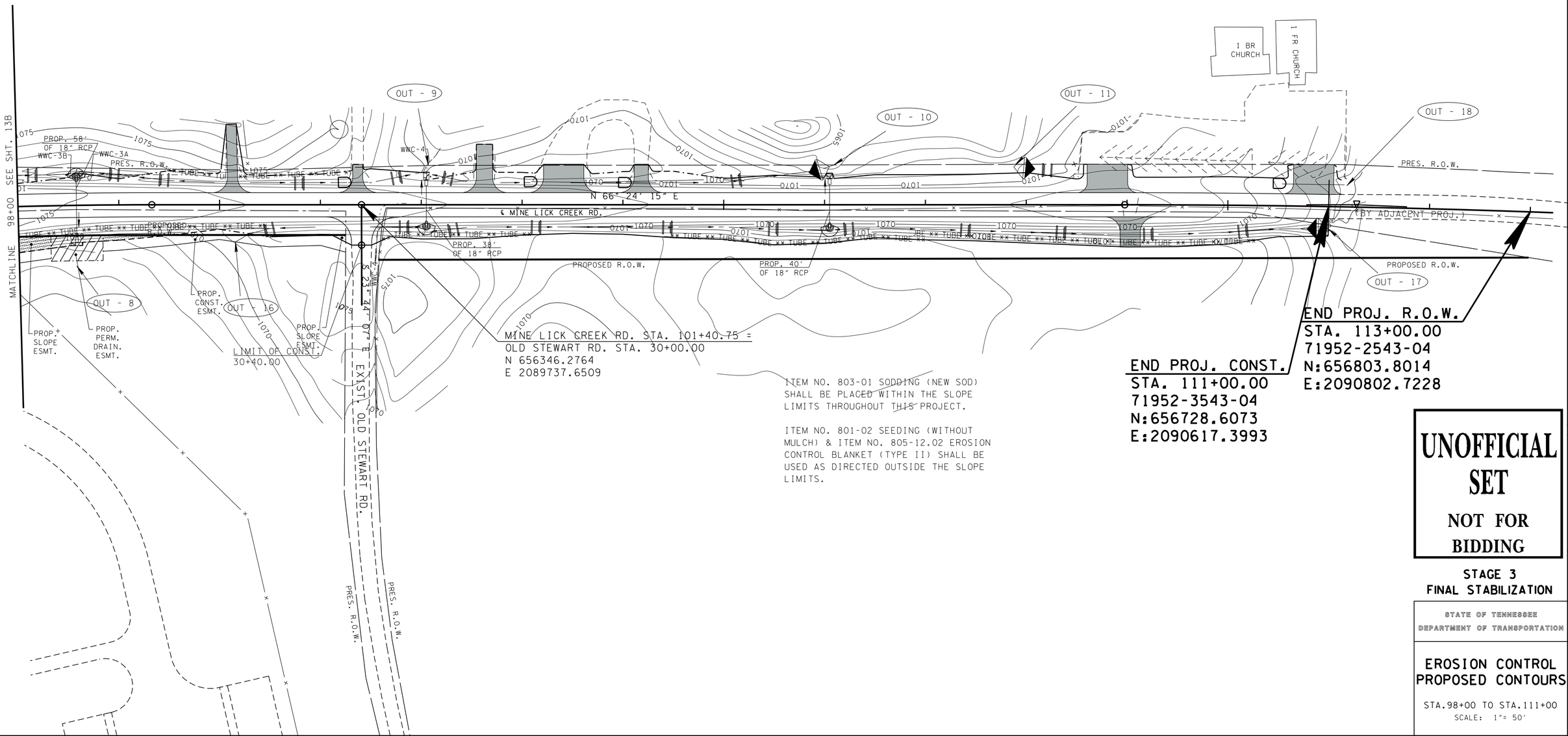

ITEM NO. 803-01 SODDING (NEW SOD) SHALL BE PLACED WITHIN THE SLOPE LIMITS THROUGHOUT THIS PROJECT.

ITEM NO. 801-02 SEEDING (WITHOUT MULCH) & ITEM NO. 805-12.02 EROSION CONTROL BLANKET (TYPE II) SHALL BE USED AS DIRECTED OUTSIDE THE SLOPE LIMITS.

UNOFFICIAL SET

NOT FOR BIDDING

STAGE 3
FINAL STABILIZATION

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PROPOSED CONTOURS

STA.98+00 TO STA.111+00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	15
CONST.	2015	71952-3543-04	15

BEGIN PROJ. CONST.
STA. 72+47.00
71952-3543-04
N:654784.8354
E:2087311.5877

N

75

80

8

1 SPEED LIMIT 35

2 STOP

LIMIT OF CONST.
9+56.00

24" STOP BAR

S 35° 33' 49" E

HEARTLAND LN.

4" DSYL

4" SSWL

N 54° 55' 31" E

℄ MINE LICK CREEK RD.

4" DSYL

4" SSWL

4" DSYL

4" SSWL

N 53° 38' 50" E

℄ MINE LICK CREEK RD.

MATCHLINE 85+00 SEE SHT. 15A

4" SSWL

3 STOP

4 SPEED LIMIT 35

P.I. STA. 78+46.24
N 655129.1855
E 2087802.0067
Δ 01°16'40.79" LT.

ACADEMY SPORTS ENTRANCE

BEGIN PROJ. R.O.W.
STA. 72+46.09
71952-2543-04
N:654784.3125
E:2087310.8430

MINE LICK CREEK RD. STA. 74+82.89 =
HEARTLAND LN. STA. 10+00.00
N 654920.3885
E 2087504.6408

ACADEMY SPORTS
PROPOSED SITE

UNOFFICIAL SET

NOT FOR BIDDING

ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000749 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING

STA.72+47 TO STA.85+00
SCALE: 1"=50'

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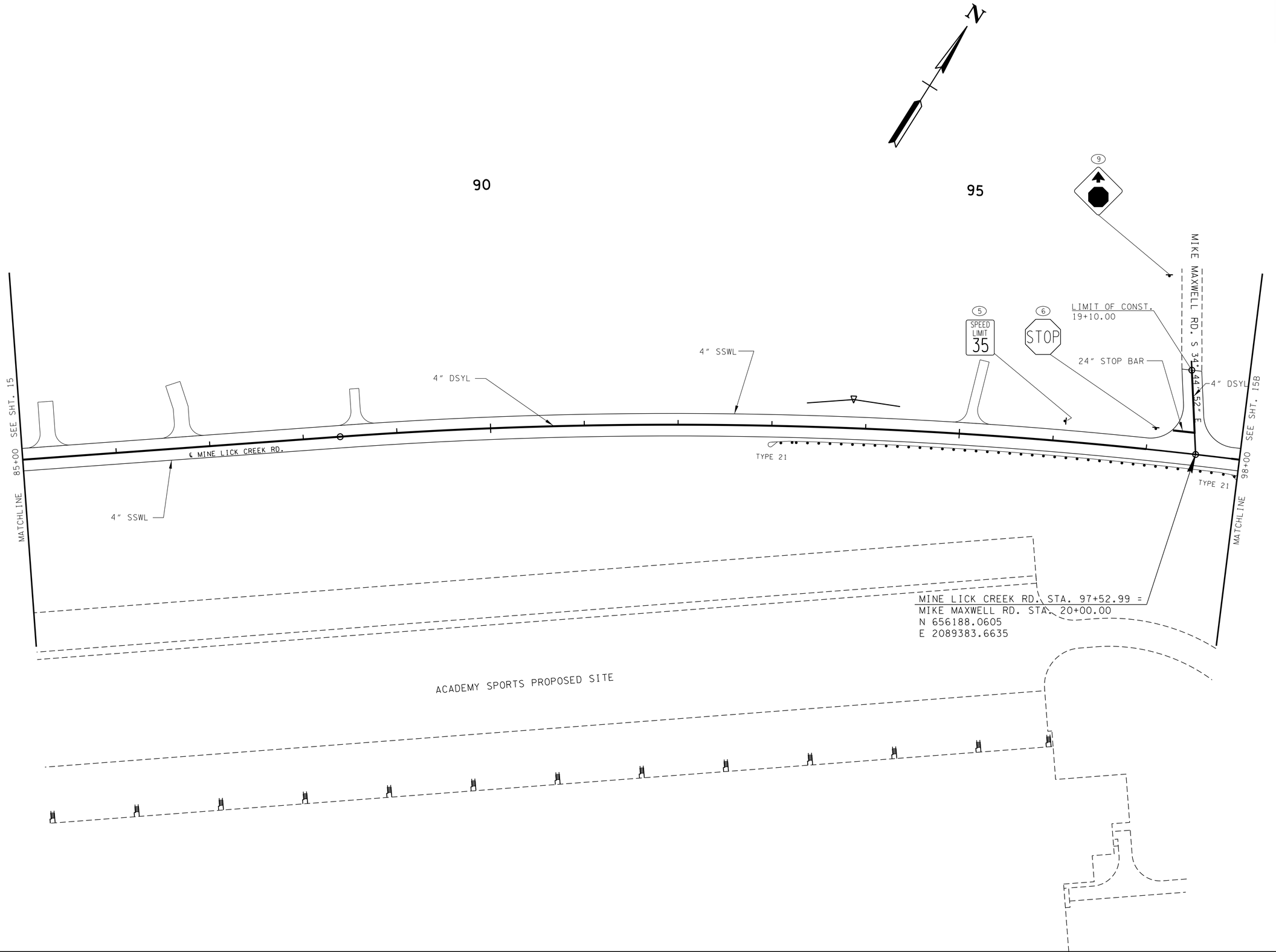
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	15A
CONST.	2015	71952-3543-04	15A



UNOFFICIAL SET

NOT FOR BIDDING

ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000749 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING

STA.85+00 TO STA.98+00
SCALE: 1"=50'

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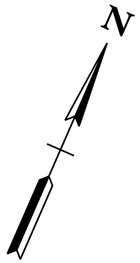
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	15B
CONST.	2015	71952-3543-04	15B



100

105

110

MATCHLINE 98+00 SEE SHT. 15A

4" SSWL

4" DSYL

4" DSYL

4" SSWL

N 66° 24' 15" E

℄ MINE LICK CREEK RD.

(BY ADJACENT PROJ.)

4" DSYL

24" STOP BAR

4" SSWL

4" SSWL

7

STOP

S 23° 44' 07" E EXIST. OLD STEWART RD.

LIMIT OF CONST.
30+40.00

MINE LICK CREEK RD. STA. 101+40.75 =
OLD STEWART RD. STA. 30+00.00
N 656346.2764
E 2089737.6509

10

END PROJ. R.O.W.
STA. 113+00.00
71952-2543-04
N:656803.8014
E:2090802.7228

END PROJ. CONST.
STA. 111+00.00
71952-3543-04
N:656728.6073
E:2090617.3993

UNOFFICIAL SET

NOT FOR BIDDING

ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000749 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNING & PAVEMENT MARKING

STA.98+00 TO STA.111+00
SCALE: 1"=50'

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ALL SIGNS SHOWN WITH DESIGNATIONS ARE TO BE FABRICATED AS DETAILED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (CURRENT EDITION)

SEE STD. DWG. NO. T-S-19

SIGN NO	LEGEND	SHEET NO	SIZE				COPY				SHIELD	ARROW	SIGN FACE			STEEL DESIGN (BREAK-AWAY)					MINIMUM VERTICAL CLEARANCE	REMARKS
			LENGTH	HEIGHT	RADIUS	BORDER WIDTH	CAPITAL	LOWER CASE	NUMERAL	SERIES			COPY	BACKGROUND	MATERIAL	SUPPORT TYPE	SUPPORT LENGTH	FOOTING	CONC. CU. YD.	REIN STEEL LBS.		
2 3 6 7	STOP R1-1	15 15 15A 15B	36"	36"									WHITE (REF.)	RED (REF.)	0.080" SHEET ALUMINUM	P8	h=12'-6"				5'0"	
1 4 5	SPEED LIMIT 35 R2-1	15 15 15A	30"	36"									BLACK	WHITE (REF.)	0.080" SHEET ALUMINUM	P8	h=12'-6"				5'0"	
8 9 10	W3-1	15 15A 15B	36"	36"									(ARROW) BLACK (STOP) RED REF.	YELLOW (REF.)	0.100" SHEET ALUMINUM	P8	h=13'-6"				5'0"	

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	16

U-POST SUBSTITUTION TABLE

BID ITEM 713-11.01	SUBSTITUTION ALLOWED
2#/FT. U1	2#/FT. MUI OR 2#/FT. R1
2.5#/FT. U3	2.5#/FT. MU3 OR 3#/FT. R2*
3#/FT. U6	
4#/FT. U7	NO SUBSTITUTES

* PAID AT A RATE OF 2.5#/FT.

UNOFFICIAL SET

NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGN SCHEDULE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	17

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

   SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

UNOFFICIAL SET

NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

4/23/2015 9:49:02 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	17A

SPECIAL TRAFFIC CONTROL NOTES

CONSTRUCTION SEQUENCE

PHASE 1

1. MAINTAIN TRAFFIC ON EXISTING BENNETT RD. AND MAINTAIN ACCESS TO ALL PROPERTY OWNERS ADJACENT TO THE PROJECT AT ALL TIMES.
2. INSTALL FLEXIBLE DRUMS ALONG THE SOUTH SIDE OF EXISTING MINE LICK CREEK RD. AND CONSTRUCT THE RIGHT SIDE OF MINE LICK CREEK RD. FROM STA. 76+00 TO STA. 111+00, AS SHOWN.
3. CONSTRUCT THE RIGHT SIDE OF MINE LICK CREEK RD. FROM STA. 72+47 TO STA. 76+00 UNDER TRAFFIC USING FLAGGERS.
4. PERFORM PAVING OPERATIONS UP THROUGH THE BINDER COURSE ON SECTIONS OF ROADWAY CONSTRUCTED IN PREVIOUS ITEMS.
5. TEMPORARILY STRIPE THE PROPOSED PAVEMENT WITH 1-10' LANE AND 2' SHOULDERS MINIMUM ALONG THE SOUTH SIDE OF MINE LICK CREEK RD.

PHASE 2

1. INSTALL FLEXIBLE DRUMS ALONG THE CENTERLINE OF PROPOSED MINE LICK CREEK RD. FROM STA. 72+47 TO STA. 111+00, AND THEN SHIFT TRAFFIC TO THE RIGHT LANE OF MINE LICK CREEK RD. AND MAINTAIN ACCESS TO ALL PROPERTY OWNERS ADJACENT TO THE PROJECT AT ALL TIMES.
2. INSTALL TEMPORARY SIGNALS ALONG MINE LICK CREEK RD. FOR THE WORK ZONE FROM STA. 76+00 TO STA. 111+00, UNTIL 2 LANES OF TRAFFIC ARE OPEN, AS PER STD. DWG. T-WZ-32.
3. CONSTRUCT THE LEFT SIDE OF MINE LICK CREEK RD. FROM STA. 76+00 TO STA. 111+00.
4. PERFORM PAVING OPERATIONS UP THROUGH THE BINDER COURSE ON SECTIONS OF ROADWAY CONSTRUCTED IN PREVIOUS ITEMS.
5. OPEN MINE LICK CREEK RD. TO 2-WAY TRAFFIC.
6. FINISH GRADE ANY DITCHES THAT PASS THROUGH EXISTING MINE LICK CREEK RD.

PHASE 3

1. PLACE ASPHALT SURFACE COURSE FULL WIDTH UNDER TRAFFIC.

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL NOTES

4/23/2015 9:49:35 AM G:\HDI170.05\CAD\TRAFF SPECIAL NOTES.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	17B

BEGIN PROJ. CONST.
STA. 72+47.00
71952-3543-04
N:654784.8354
E:2087311.5877

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
→	TRAFFIC FLOW
	SIGN (CONSTRUCTION)
	PHASE I WORK ZONE
	FLAGGER
	FLEXIBLE DRUMS (CHANNELIZING)
	FLAGGER WORK ZONE

75

80

ROAD WORK AHEAD
W20-1 48" X 48"

END ROAD WORK
G20-2 48" X 24"

HEARTLAND LN.

S 35° 33' 49" E
500'

LIMIT OF CONST.
9+56.00

ONE LANE ROAD 1500 FT
ROAD WORK 1500 FT
W20-4 48" X 48"
W20-1 48" X 48"
G20-2 48" X 24"
END ROAD WORK

+47 88' PAVEMENT & SHOULDER TRANS. +53

500'

20.0

R-30'

R-30'

W20-7 48" X 48"

W20-4 48" X 48"
ONE LANE ROAD 1500 FT

500'

1000'

19.6'

12'

N 54° 55' 31" E

MINE LICK CREEK RD.

N 53° 38' 50" E

12'

℄ MINE LICK CREEK RD.

12'

1000' 500' 500'

ROAD WORK 1/2 MILE
W20-1 48" X 48"

ROAD WORK 1000 FT
W20-1 48" X 48"

ROAD WORK 500 FT
W20-1 48" X 48"

W20-7 48" X 48"

ADVANCED WARNING
SIGNS DURING DAYTIME LANE CLOSURE.
REFER TO STD. DWG. T-WZ-32.

BEGIN PROJ. R.O.W.
STA. 72+46.09
71952-2543-04
N:654784.3125
E:2087310.8430

MINE LICK CREEK RD. STA. 74+82.89 =
HEARTLAND LN. STA. 10+00.00
N 654920.3885
E 2087504.6408

P.I. STA. 78+46.24
N 655129.1855
E 2087802.0067
Δ 01°16'40.79" LT.

ACADEMY SPORTS ENTRANCE

TEMPORARY STRIPING
REFER TO STD. DWG.
T-M-1 & T-WZ-32.

ACADEMY SPORTS
PROPOSED SITE

MATCHLINE 85+00 SEE SHT. 17D

UNOFFICIAL SET

NOT FOR BIDDING

ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000749 AND TIED TO THE TGRN, ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE I

STA.72+47 TO STA.85+00

SCALE: 1"=50'

4/23/2015 9:49:59 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	17C

BEGIN PROJ. CONST.
STA. 72+47.00
71952-3543-04
N:654784.8354
E:2087311.5877

R Y G

REFER TO STD. DWG. T-WZ-32 FOR ADVANCED WARNING SIGNS DURING TEMPORARY SIGNAL USE, AND MODIFY ACCORDINGLY FOR THE WORK ZONE FROM STA. 72+47 TO STA. 111+00 ALONG MINE LICK CREEK RD.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
→	TRAFFIC FLOW
	SIGN (CONSTRUCTION)
	PHASE II WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
R Y G	TEMPORARY SIGNAL

75

80

ROAD WORK AHEAD W20-1 48" X 48"

END ROAD WORK G20-2 48" X 24"

HEARTLAND LN.

S 35° 33' 49" E 500'

ONE LANE ROAD 1500 FT

ROAD WORK 1500 FT W20-4 48" X 48"

W20-1 48" X 48" G20-2 48" X 24"

END ROAD WORK

LIMIT OF CONST. 9+56.00

+47 88' PAVEMENT & SHOULDER TRANS. +53

20.0

R-30'

R-30'

500'

19.6' 12' 12' ℄ MINE LICK CREEK RD.

N 54° 55' 31" E

N 53° 38' 50" E 12'

℄ MINE LICK CREEK RD. → ← 12'

1000' 500' 500'

ROAD WORK 1/2 MILE W20-1 48" X 48"

ROAD WORK 1000 FT W20-1 48" X 48"

ROAD WORK 500 FT W20-1 48" X 48"

W20-7 48" X 48"

BEGIN PROJ. R.O.W.
STA. 72+46.09
71952-2543-04
N:654784.3125
E:2087310.8430

MINE LICK CREEK RD. STA. 74+82.89 =
HEARTLAND LN. STA. 10+00.00
N 654920.3885
E 2087504.6408

P.I. STA. 78+46.24
N 655129.1855
E 2087802.0067
Δ 01°16'40.79" LT.

ACADEMY SPORTS ENTRANCE

TEMPORARY STRIPING
REFER TO STD. DWG.
T-M-1 & T-WZ-32.

ACADEMY SPORTS
PROPOSED SITE

MATCHLINE 85+00 SEE SHT. 17E

UNOFFICIAL SET

NOT FOR BIDDING

ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000749 AND TIED TO THE TGRN, ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE II

STA.72+47 TO STA.85+00

SCALE: 1"=50'

4/23/2015 9:50:00 AM
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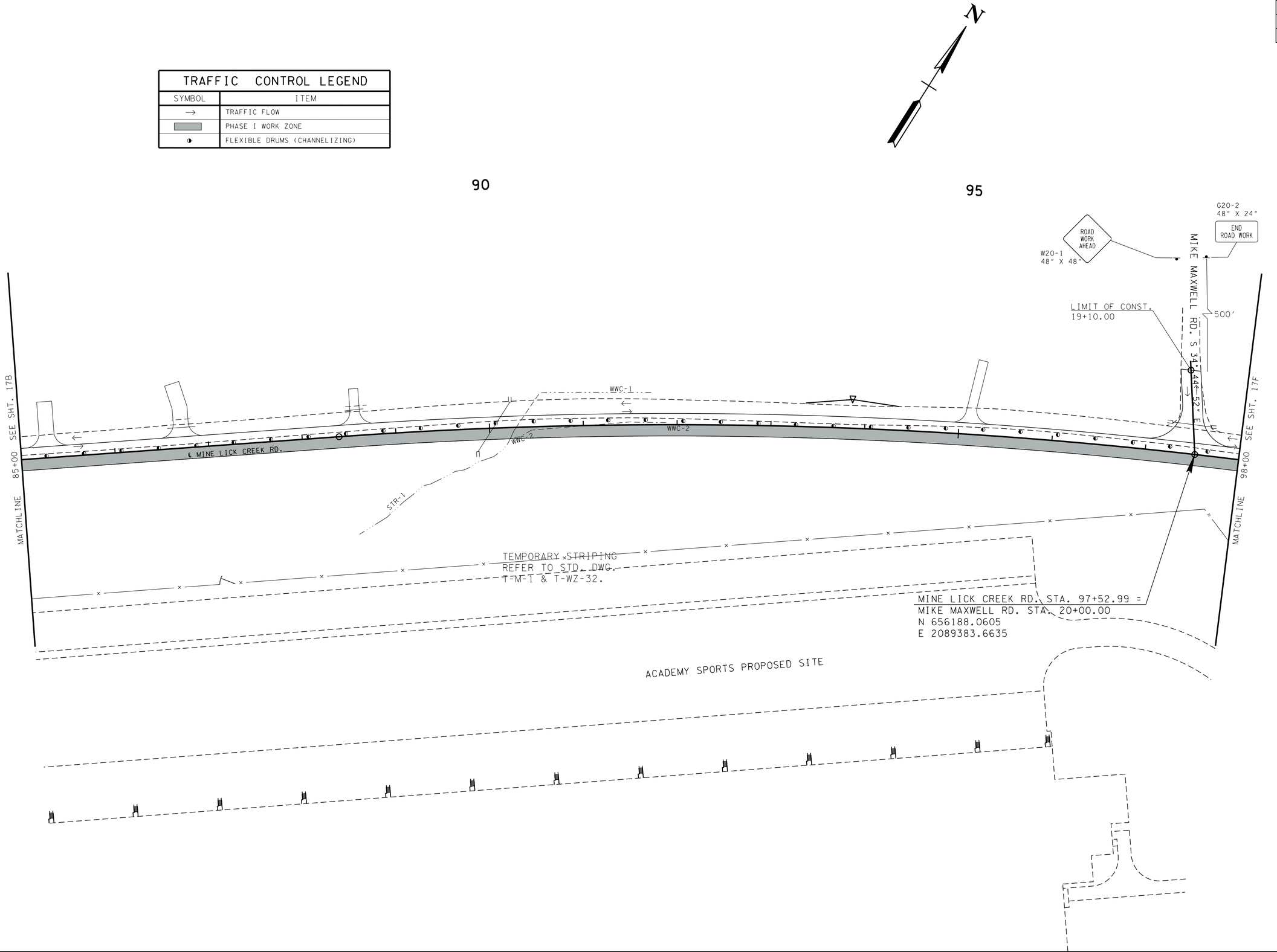
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	17D

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
→	TRAFFIC FLOW
▭	PHASE I WORK ZONE
◑	FLEXIBLE DRUMS (CHANNELIZING)



UNOFFICIAL SET

NOT FOR BIDDING

ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000749 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE I

STA.85+00 TO STA.98+00

SCALE: 1"=50'

4/23/2015 9:50:01 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	17E

TRAFFIC CONTROL LEGEND

SYMBOL	ITEM
→	TRAFFIC FLOW
	SIGN (CONSTRUCTION)
	PHASE II WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
R Y G	TEMPORARY SIGNAL

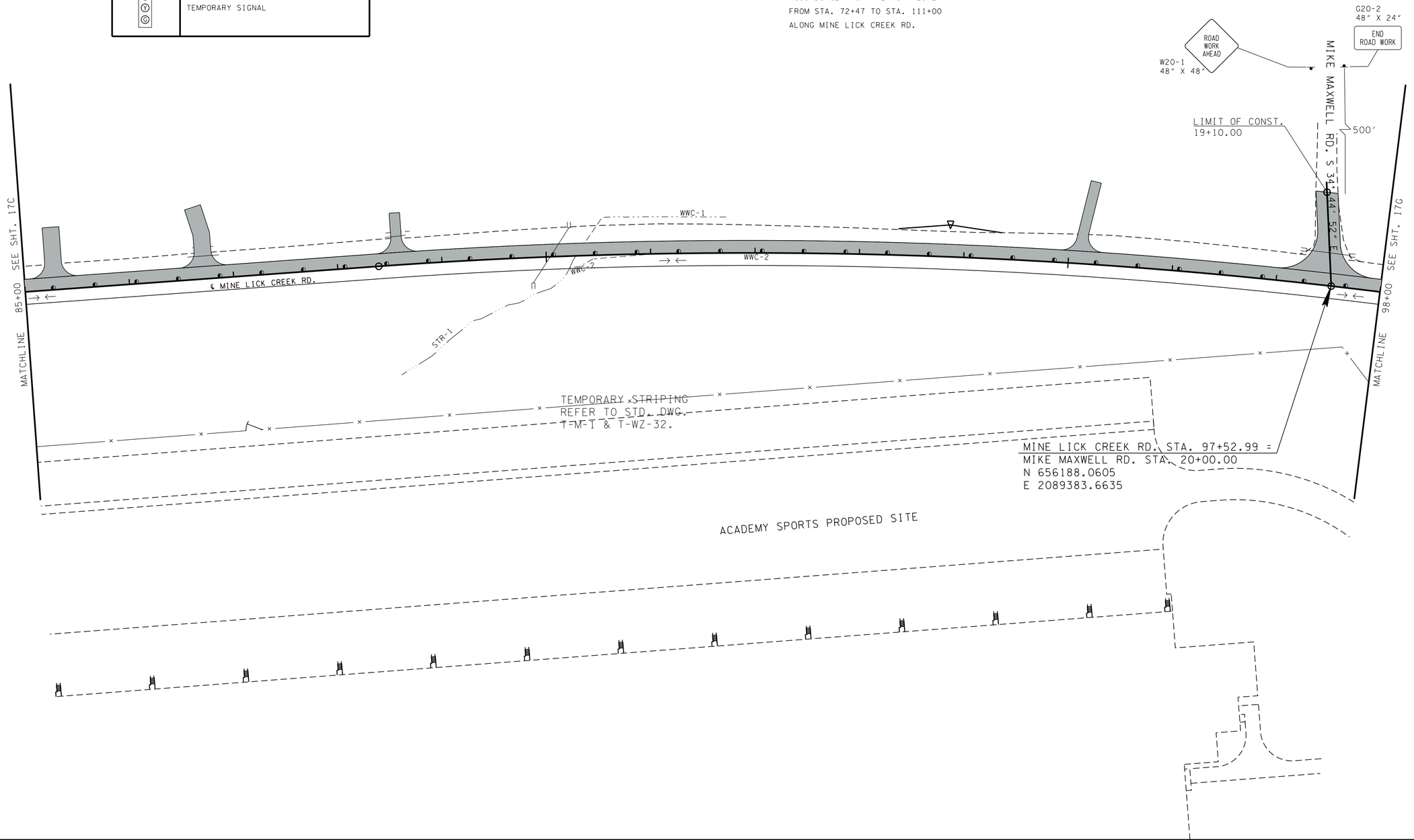
R Y G

REFER TO STD. DWG. T-WZ-32 FOR ADVANCED WARNING SIGNS DURING TEMPORARY SIGNAL USE, AND MODIFY ACCORDINGLY FOR THE WORK ZONE FROM STA. 72+47 TO STA. 111+00 ALONG MINE LICK CREEK RD.

N

90

95



UNOFFICIAL SET

NOT FOR BIDDING

ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000749 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE II

STA.85+00 TO STA.98+00

SCALE: 1"=50'

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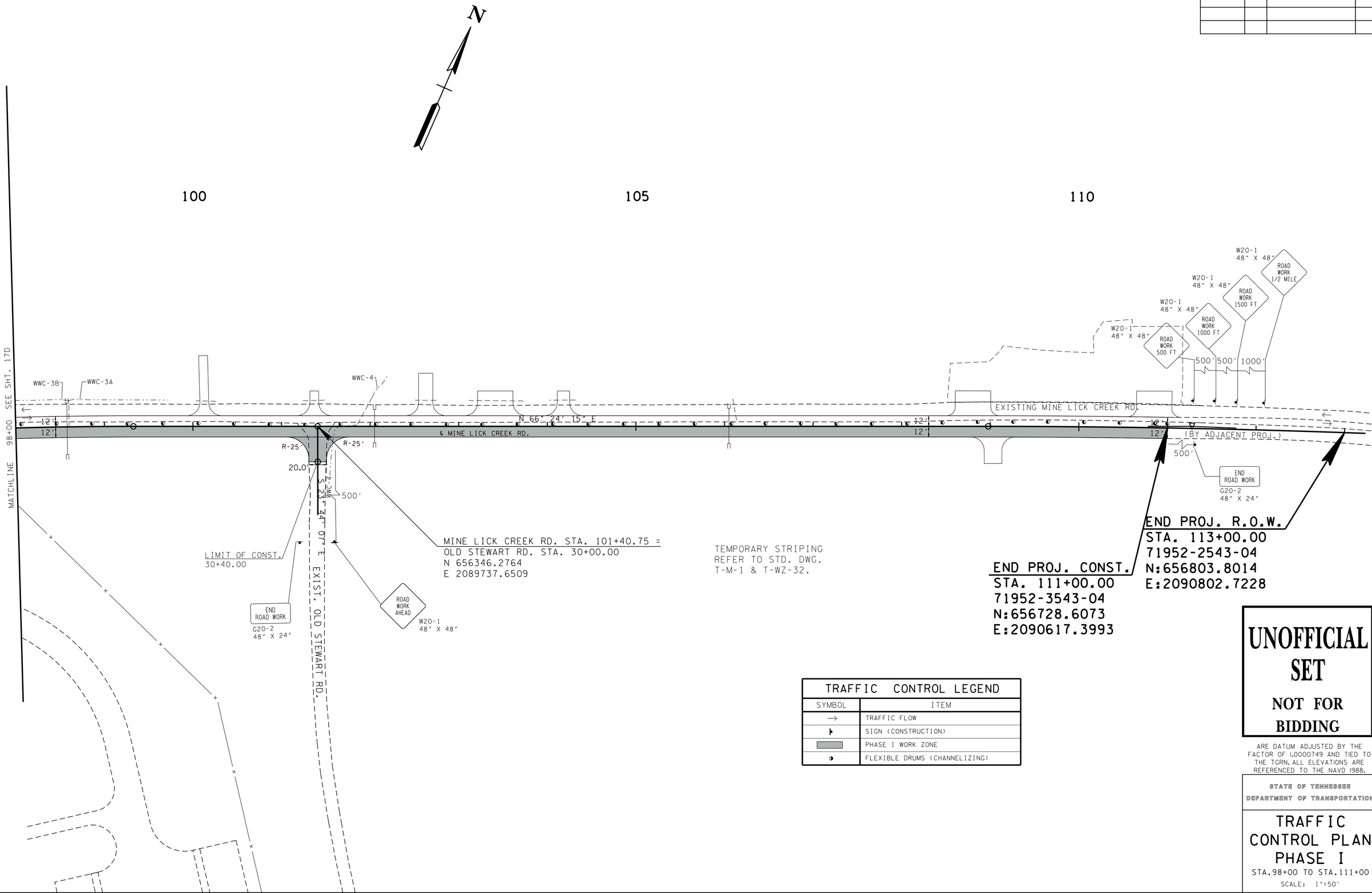
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	17F



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
→	TRAFFIC FLOW
	SIGN (CONSTRUCTION)
	PHASE I WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)

UNOFFICIAL SET

NOT FOR BIDDING

ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000749 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE I

STA.98+00 TO STA.111+00

SCALE: 1"=50'

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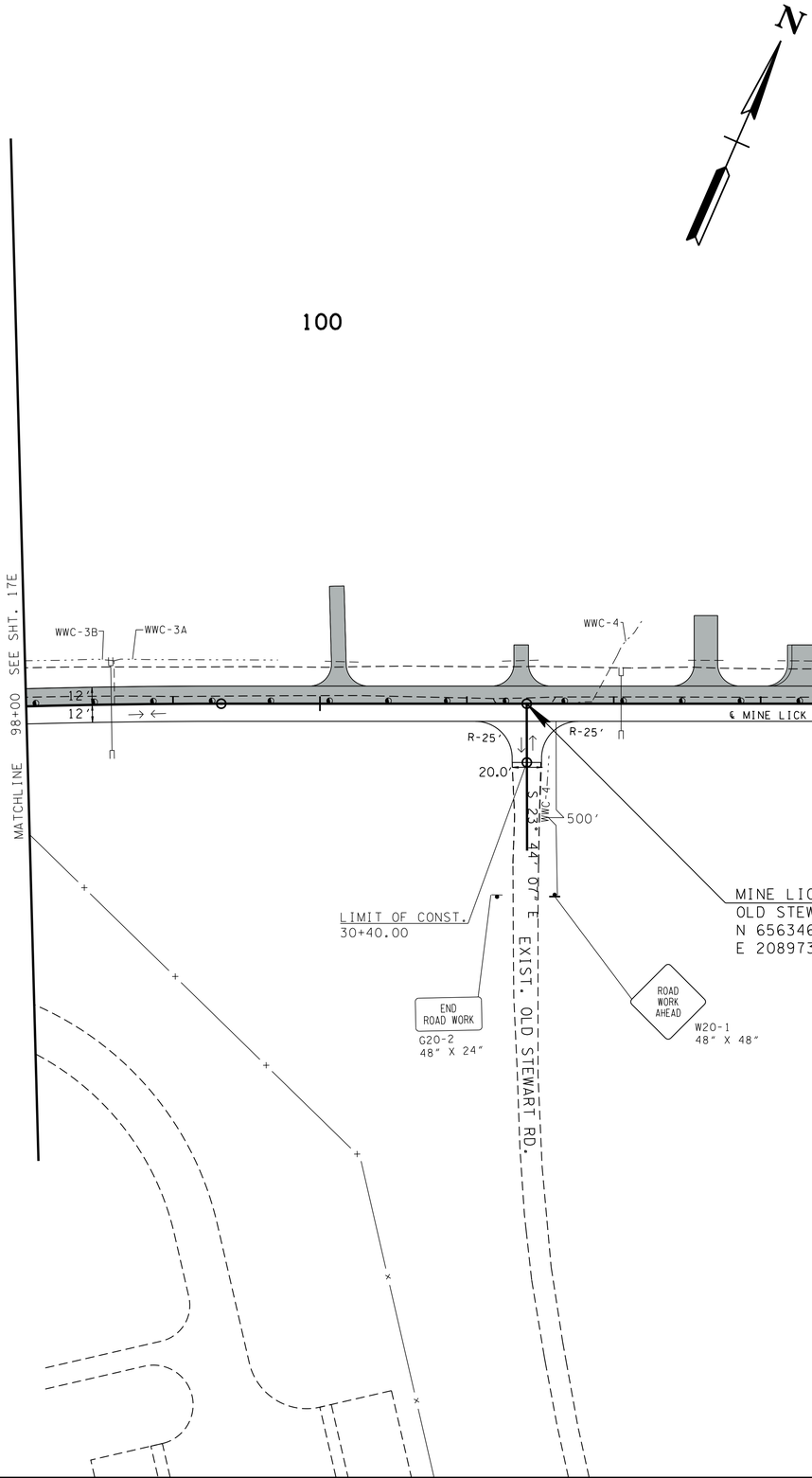
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2015	71952-3543-04	17G



REFER TO STD. DWG. T-WZ-32 FOR ADVANCED WARNING SIGNS DURING TEMPORARY SIGNAL USE, AND MODIFY ACCORDINGLY FOR THE WORK ZONE FROM STA. 72+47 TO STA. 111+00 ALONG MINE LICK CREEK RD.

TEMPORARY STRIPING
REFER TO STD. DWG.
T-M-1 & T-WZ-32.

TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
→	TRAFFIC FLOW
	SIGN (CONSTRUCTION)
	PHASE II WORK ZONE
	FLEXIBLE DRUMS (CHANNELIZING)
R Y G	TEMPORARY SIGNAL

UNOFFICIAL SET

NOT FOR BIDDING

ARE DATUM ADJUSTED BY THE FACTOR OF 1.0000749 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN PHASE II

STA.98+00 TO STA.111+00

SCALE: 1"=50'

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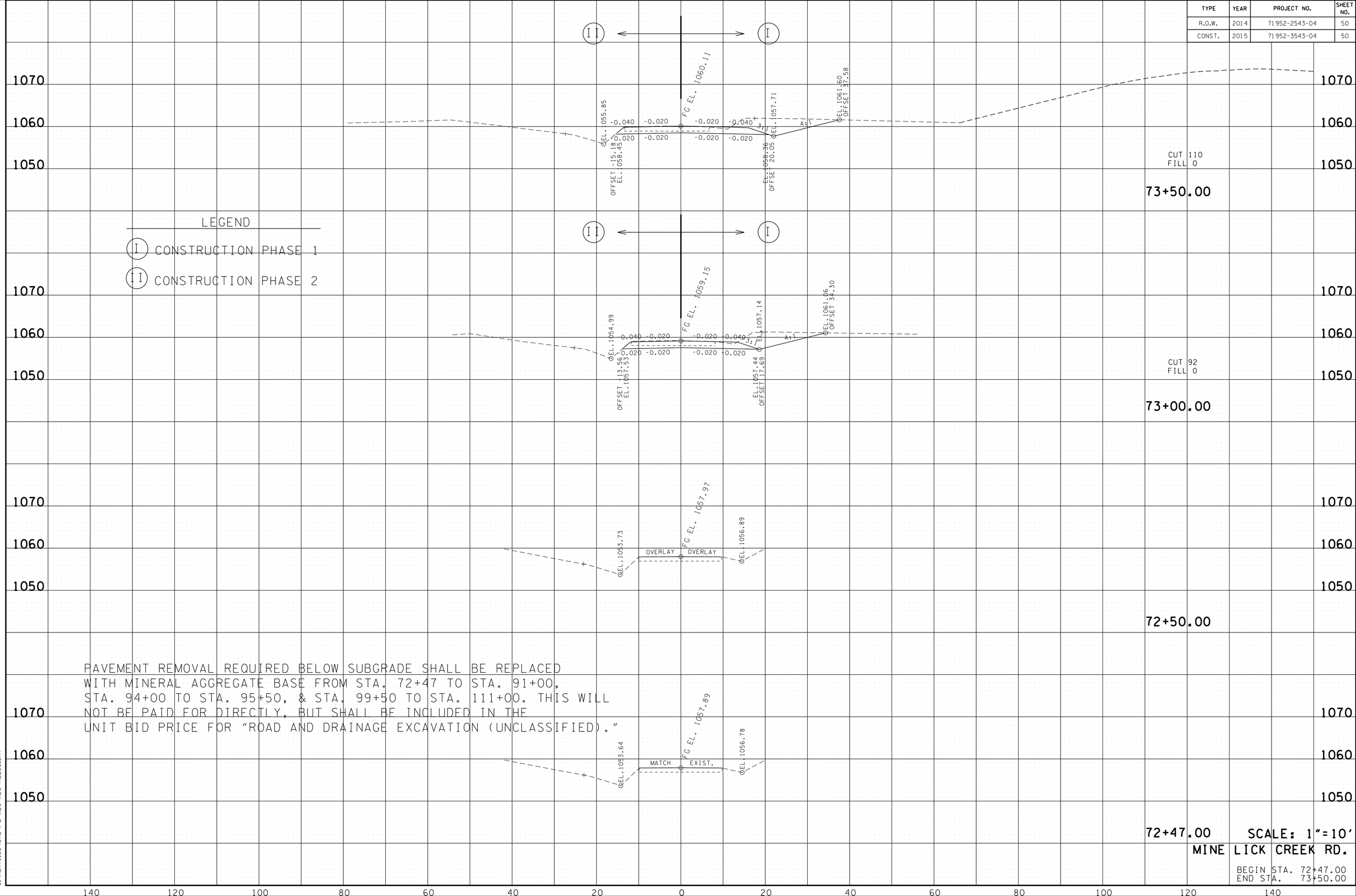
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	50
CONST.	2015	71952-3543-04	50



SCALE: 1"=10'

MINE LICK CREEK RD.

BEGIN STA. 72+47.00
END STA. 73+50.00

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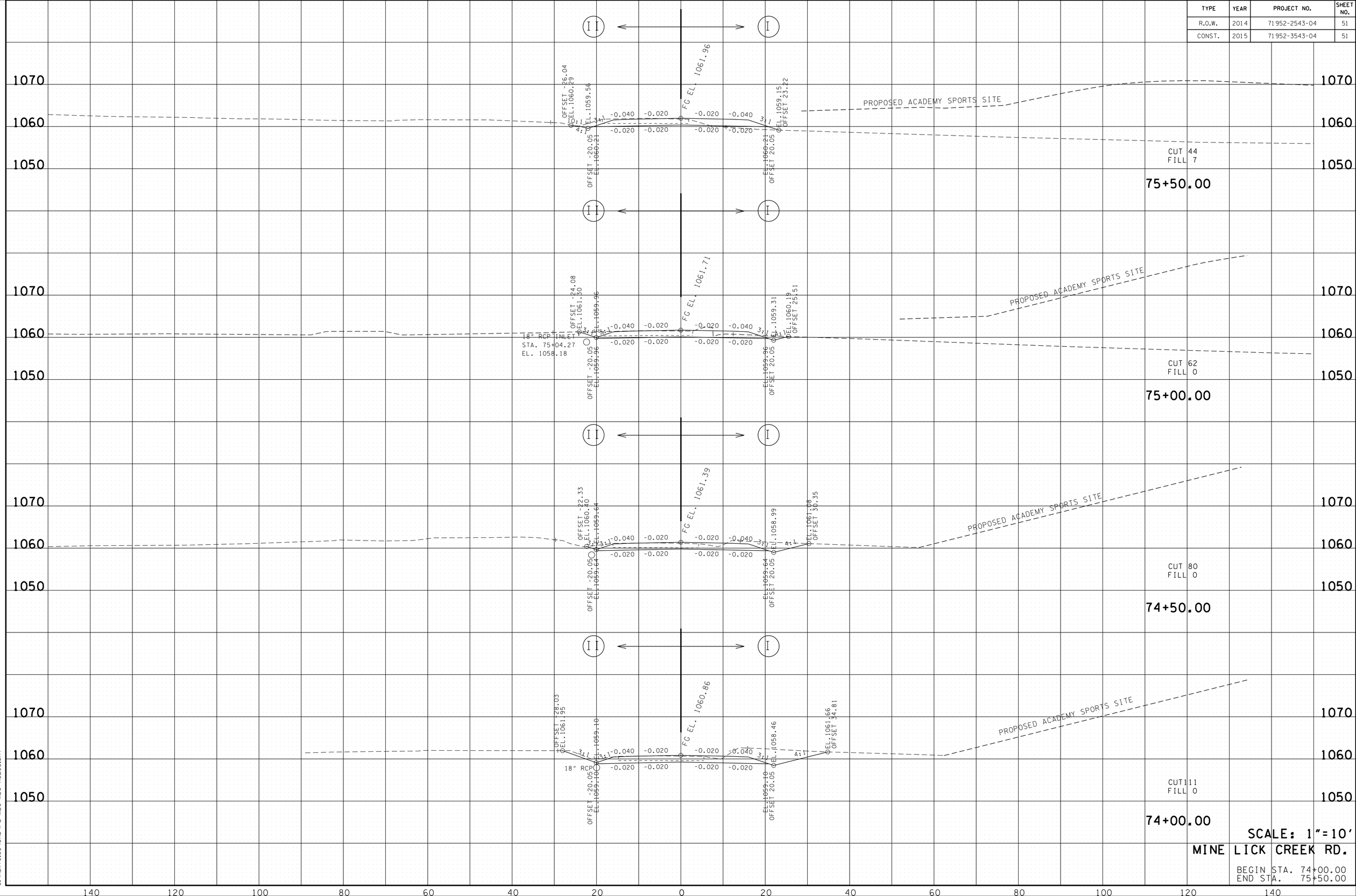
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	51
CONST.	2015	71952-3543-04	51



SCALE: 1"=10'

MINE LICK CREEK RD.

BEGIN STA. 74+00.00
END STA. 75+50.00

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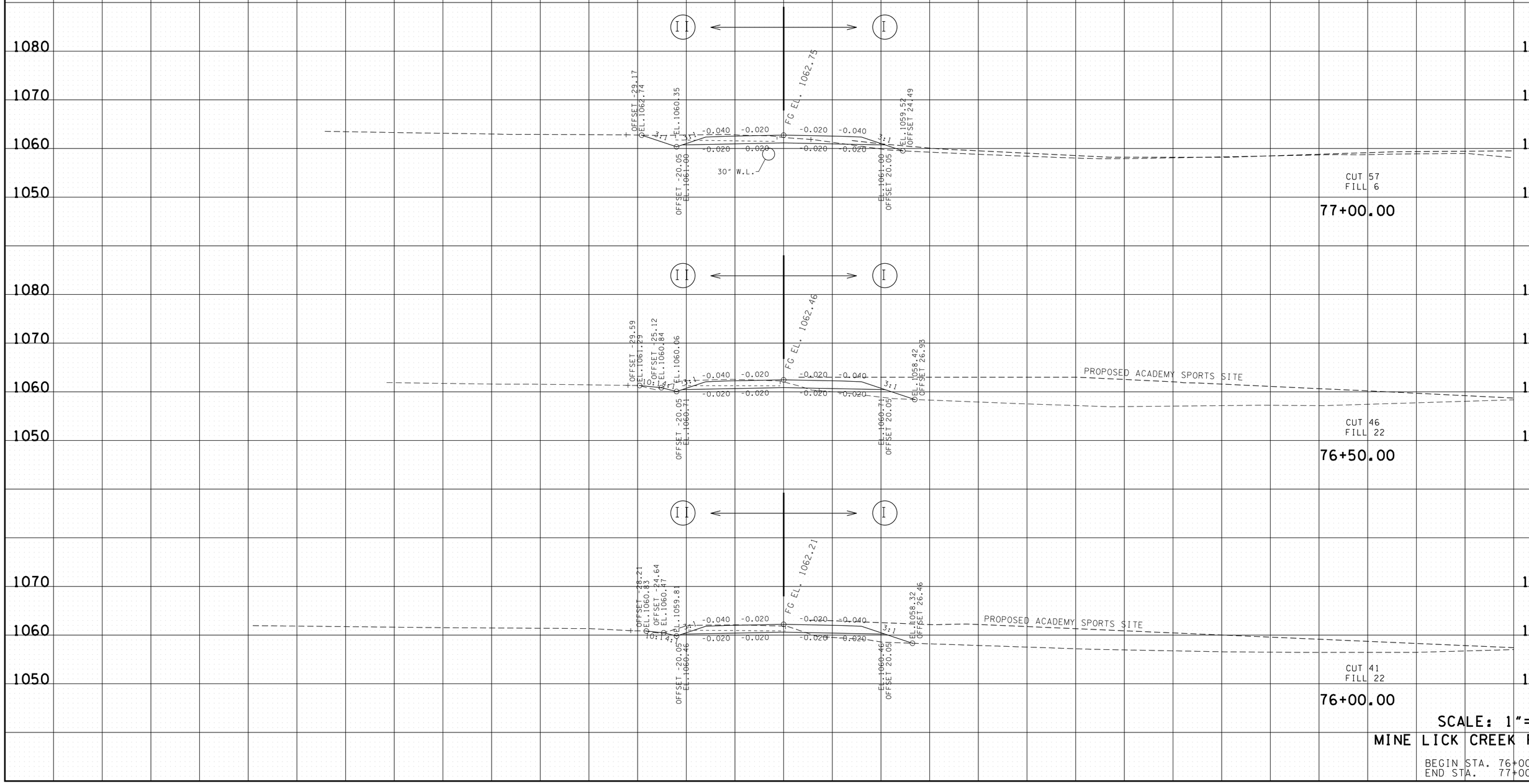
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	52
CONST.	2015	71952-3543-04	52



SCALE: 1"=10'

MINE LICK CREEK RD.

BEGIN STA. 76+00.00
END STA. 77+00.00

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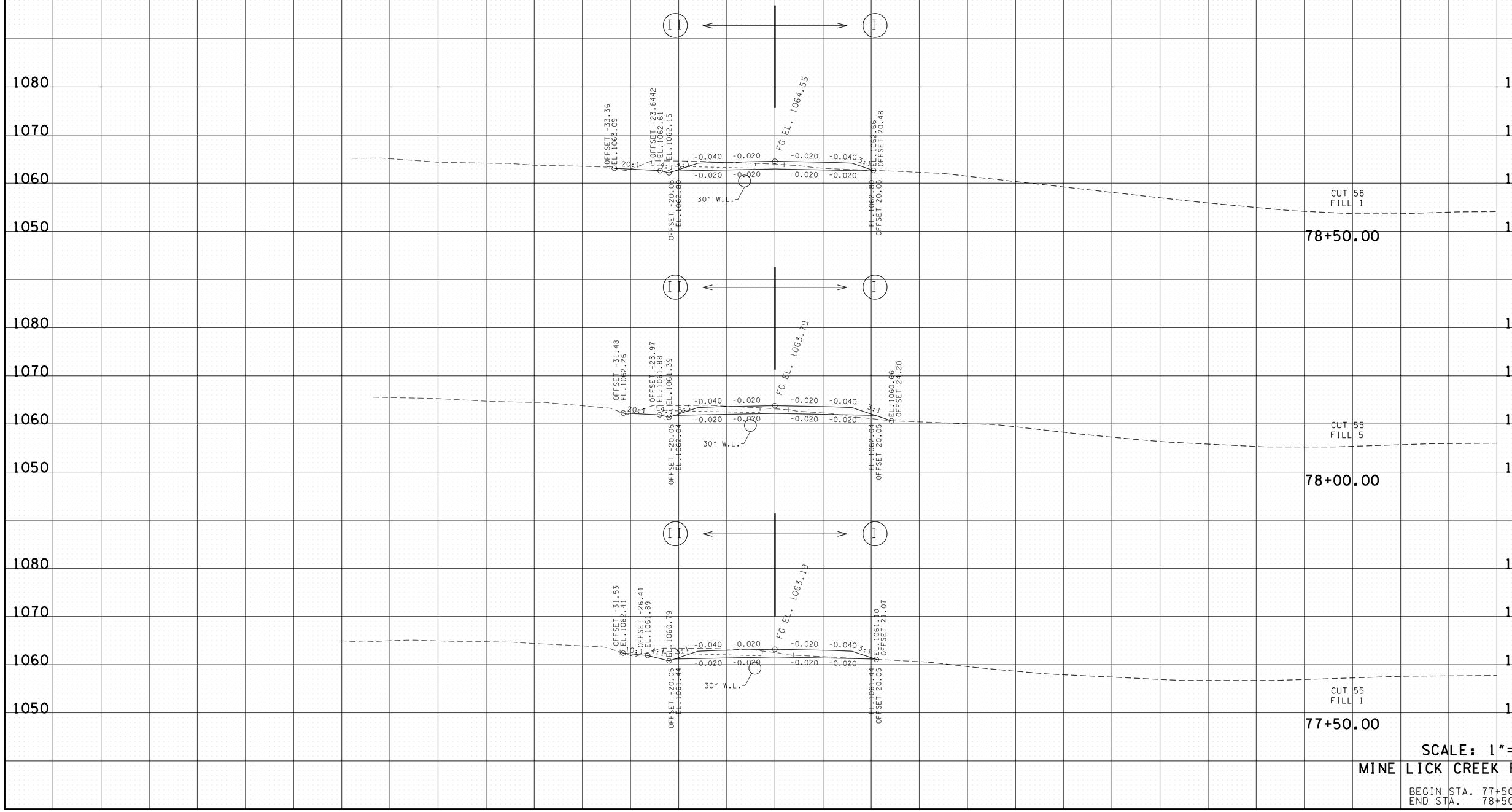
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	53
CONST.	2015	71952-3543-04	53



SCALE: 1"=10'

MINE LICK CREEK RD.

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

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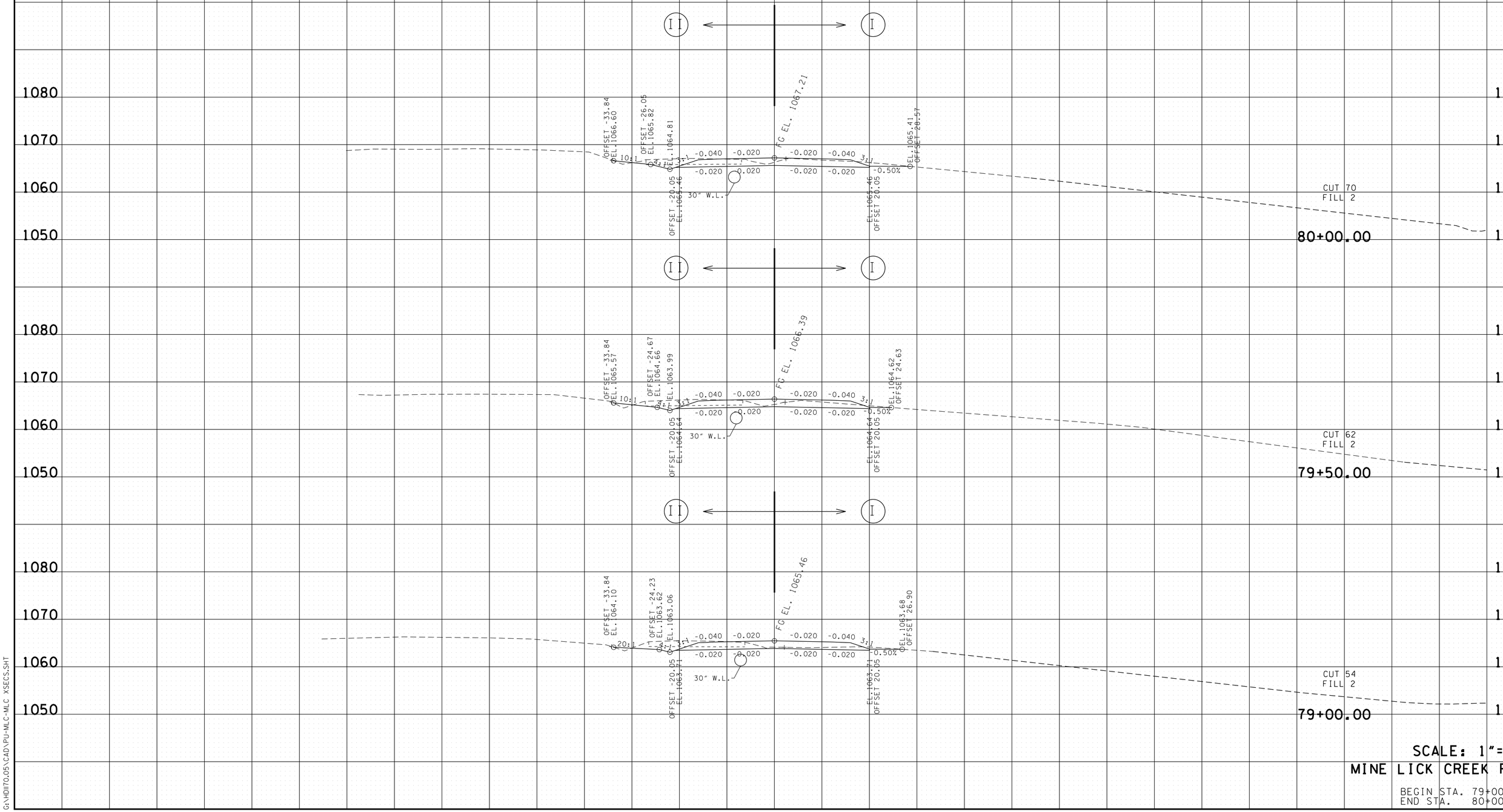
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	54
CONST.	2015	71952-3543-04	54



SCALE: 1"=10'

MINE LICK CREEK RD.

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

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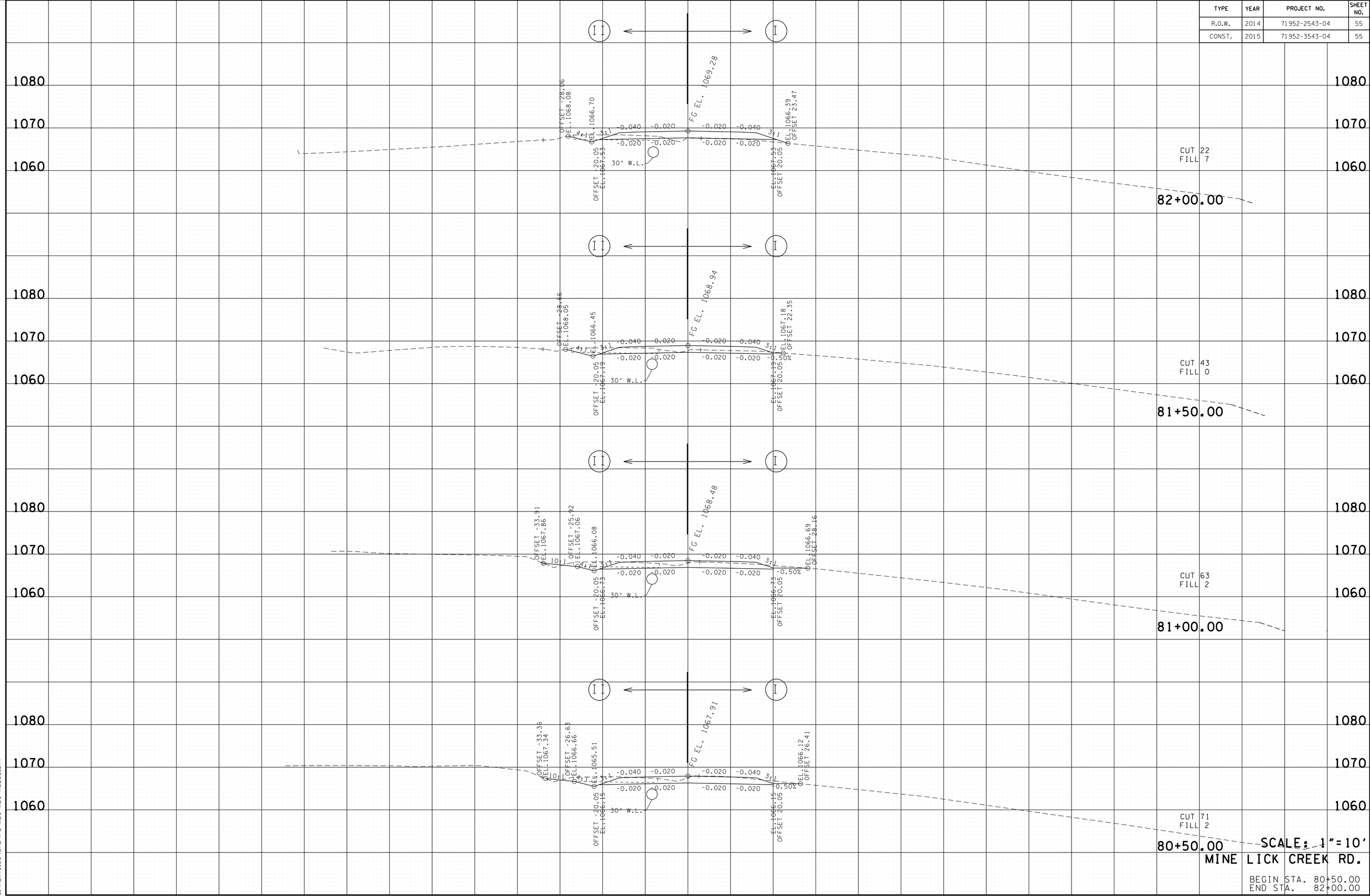
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	55
CONST.	2015	71952-3543-04	55



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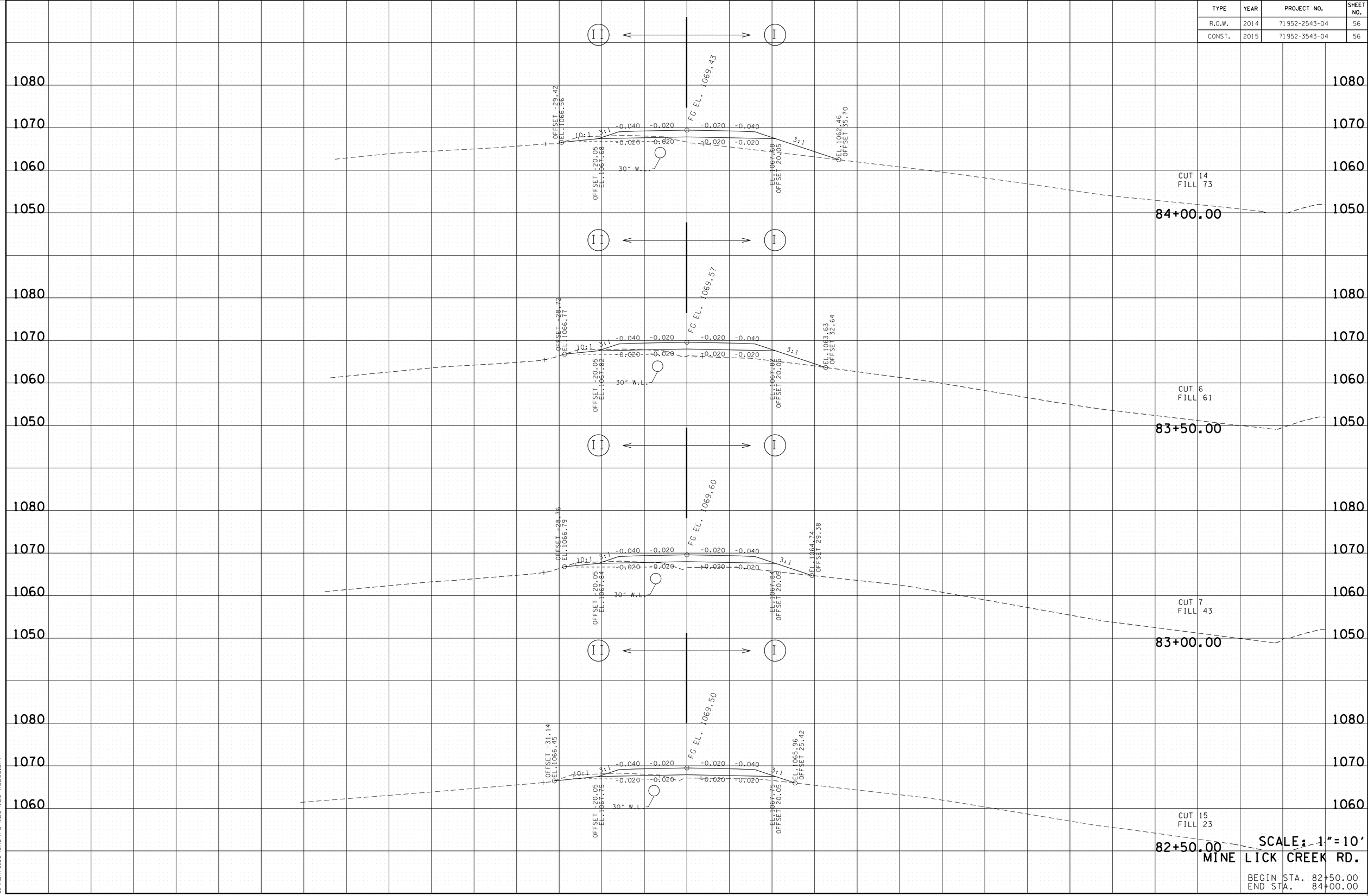
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	56
CONST.	2015	71952-3543-04	56



SCALE: 1"=10'

MINE LICK CREEK RD.

BEGIN STA. 82+50.00
END STA. 84+00.00

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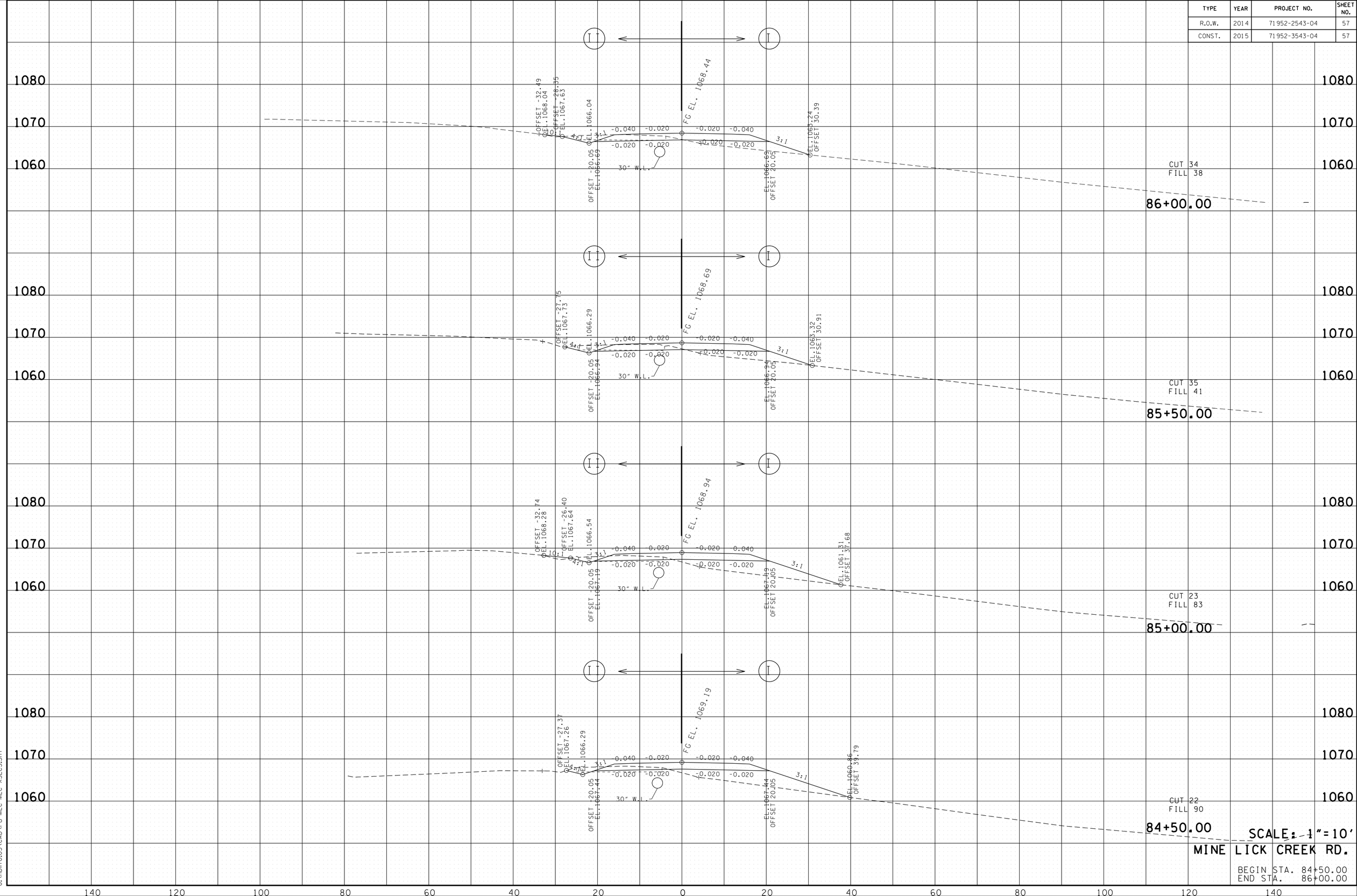
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	57
CONST.	2015	71952-3543-04	57



SCALE: 1"=10'

MINE LICK CREEK RD.

BEGIN STA. 84+50.00
END STA. 86+00.00

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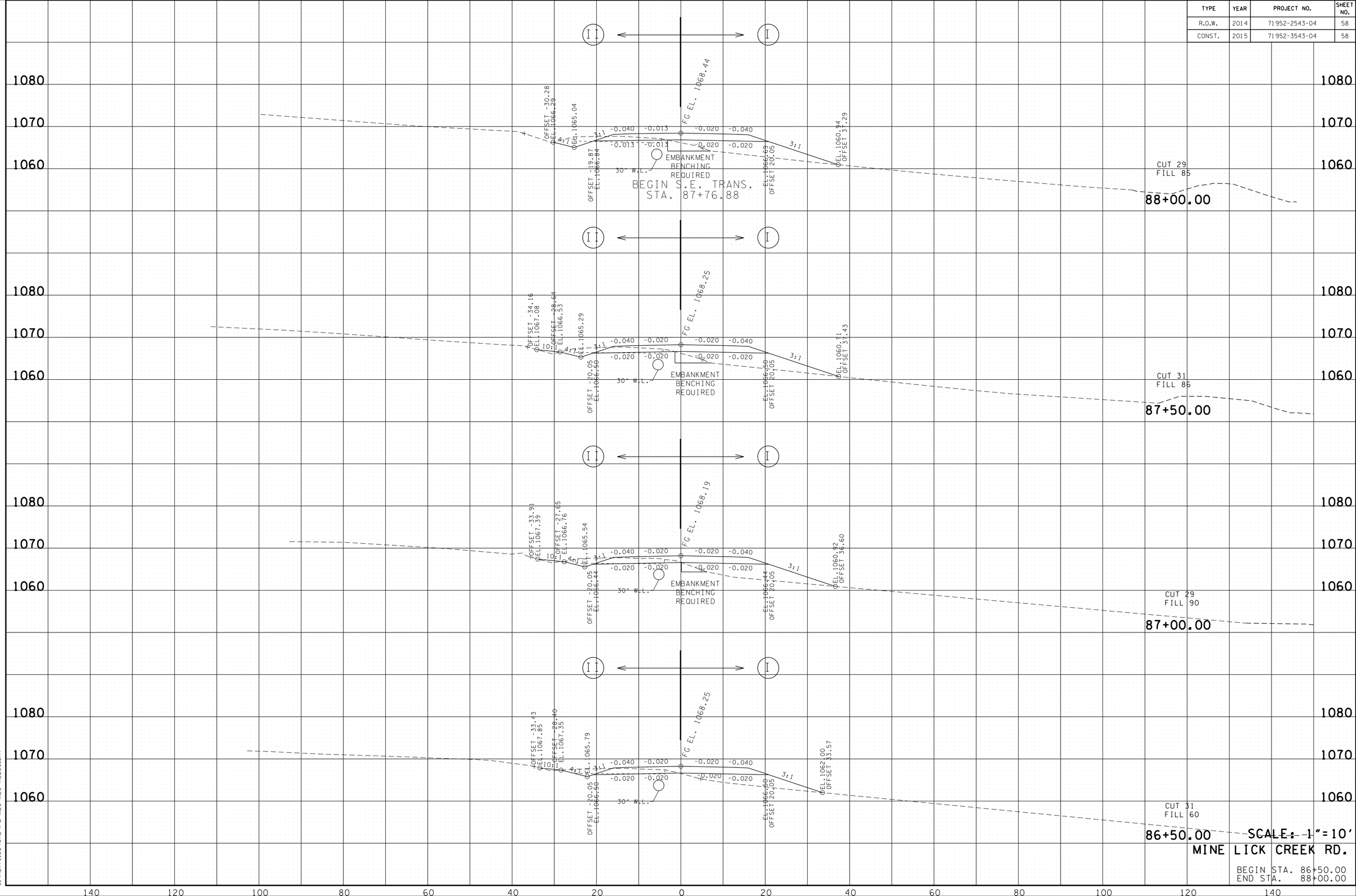
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	58
CONST.	2015	71952-3543-04	58



SCALE: 1"=10'

MINE LICK CREEK RD.

BEGIN STA. 86+50.00
END STA. 88+00.00

4/23/2015 9:50:24 AM
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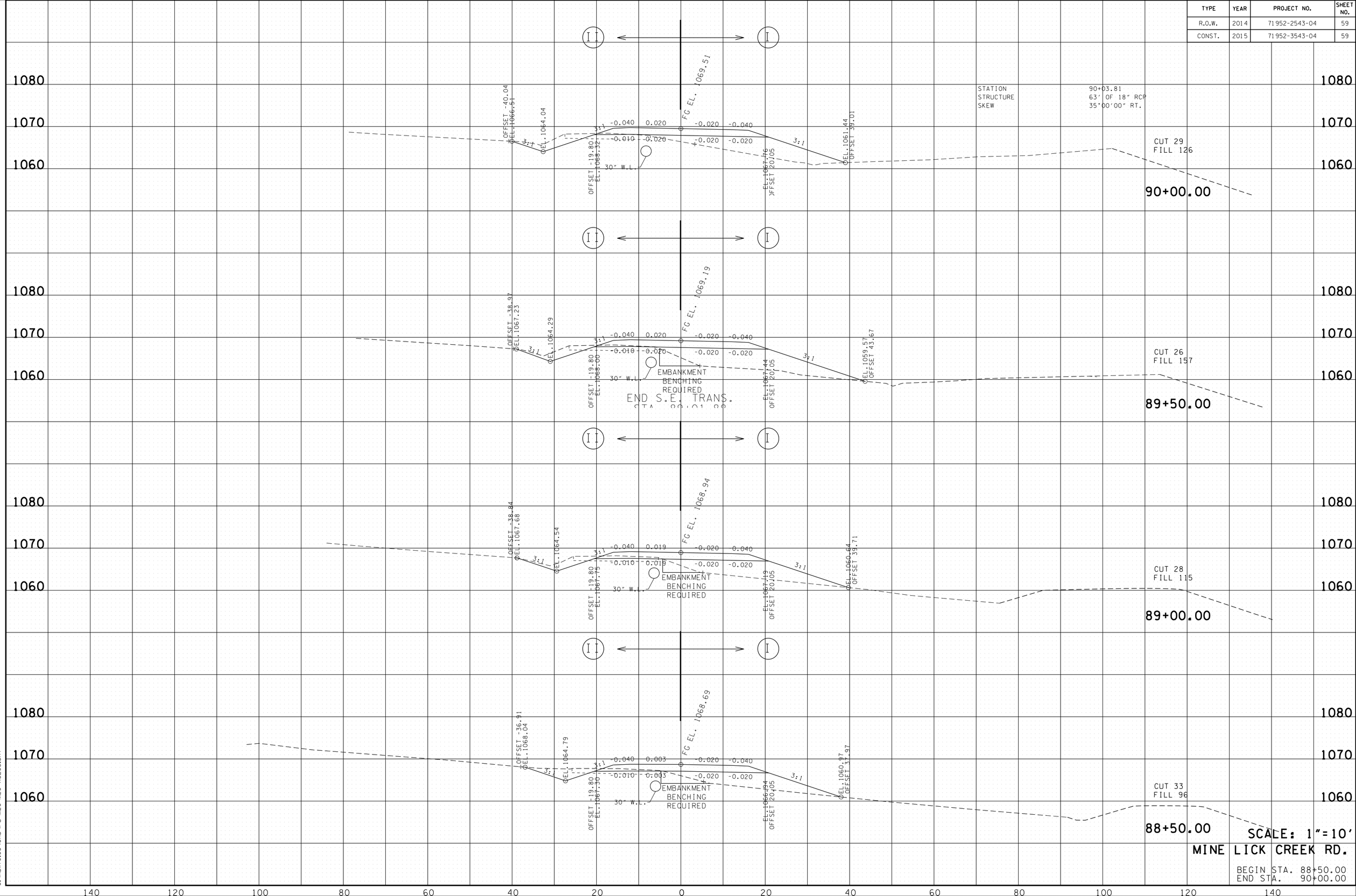
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	59
CONST.	2015	71952-3543-04	59



SCALE: 1"=10'

MINE LICK CREEK RD.

BEGIN STA. 88+50.00
END STA. 90+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	60
CONST.	2015	71952-3543-04	60

SCALE: 1"=10'

MINE LICK CREEK RD.

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

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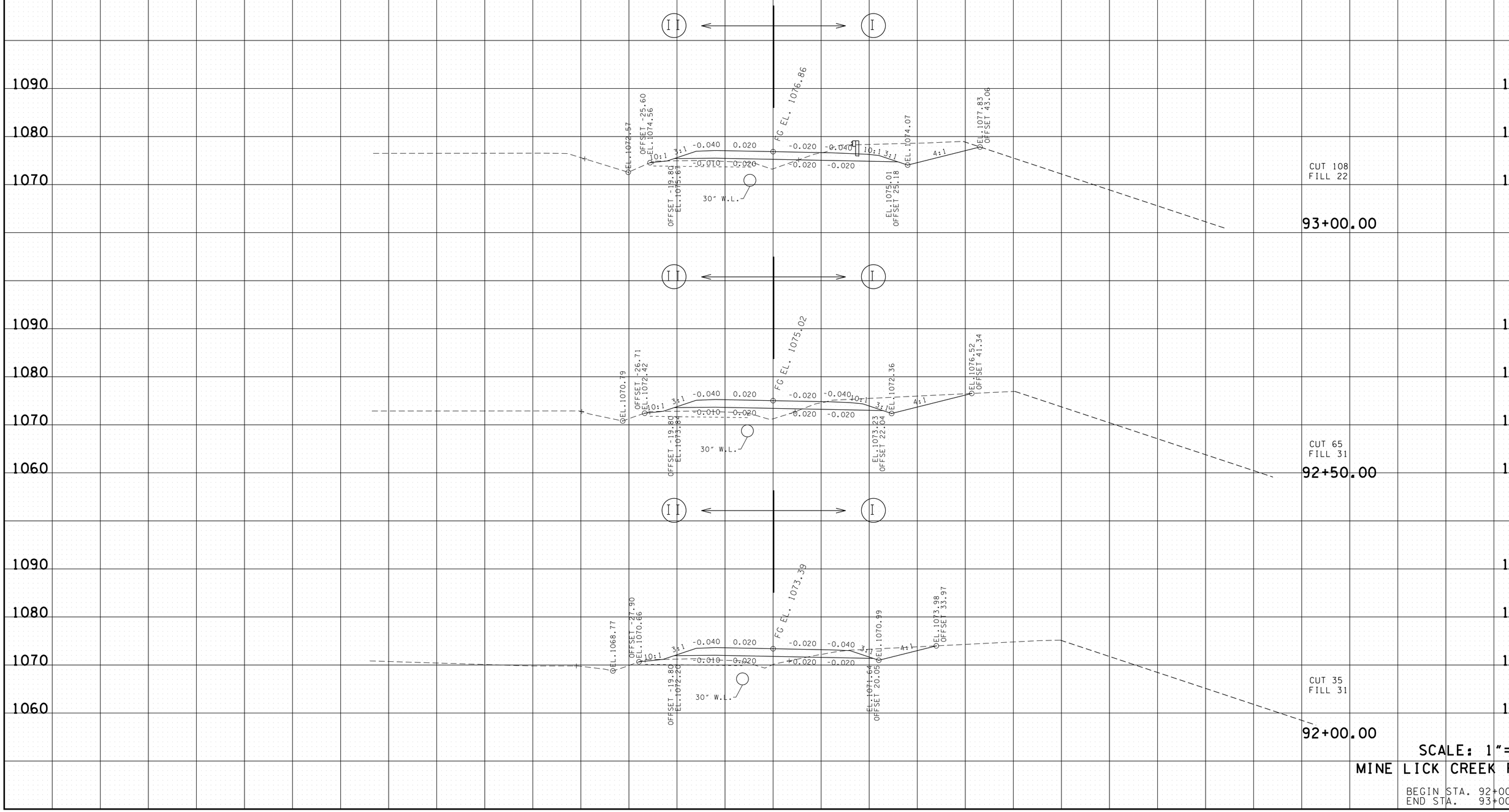
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	61
CONST.	2015	71952-3543-04	61



SCALE: 1"=10'

MINE LICK CREEK RD.

BEGIN STA. 92+00.00
END STA. 93+00.00

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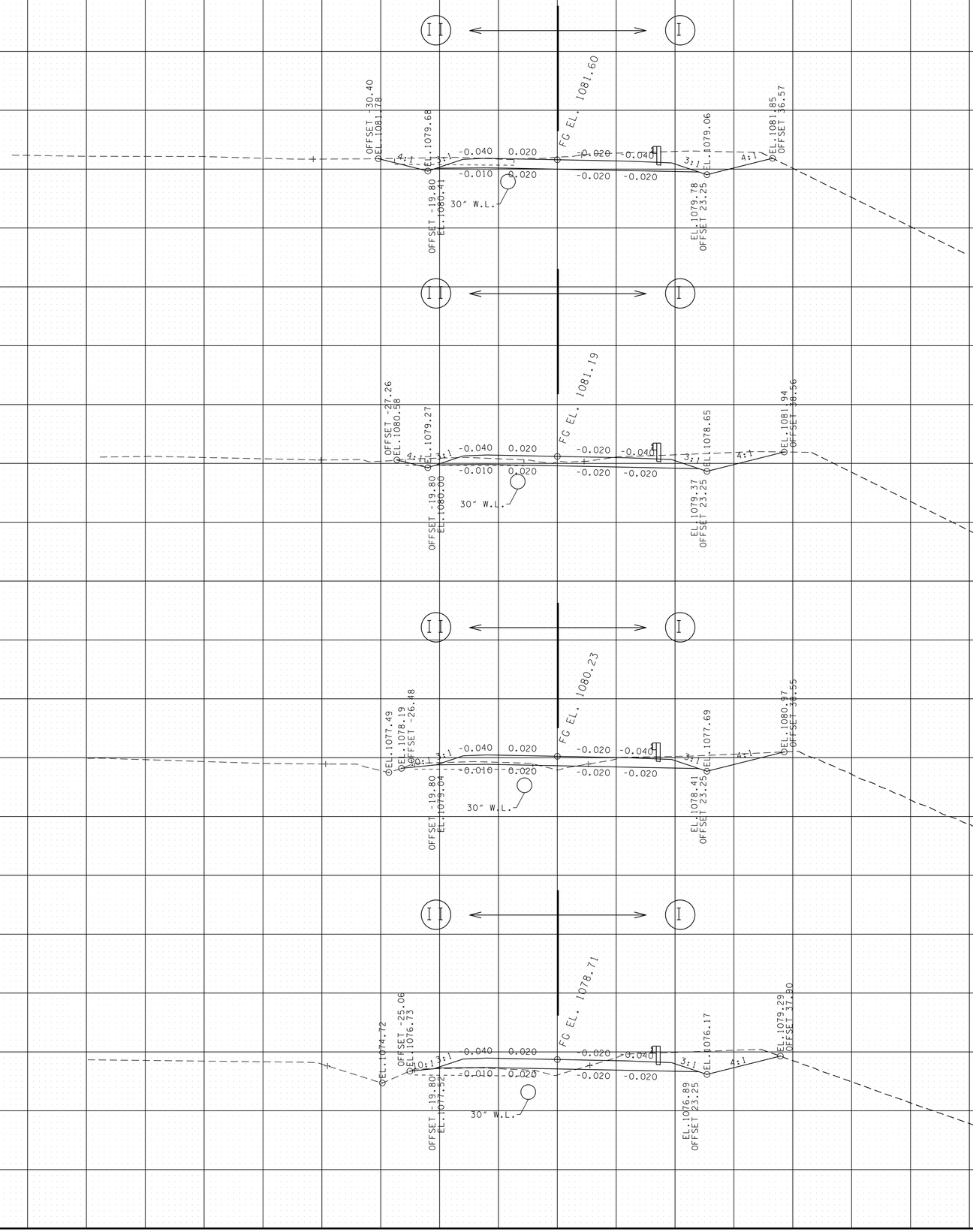
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	62
CONST.	2015	71952-3543-04	62



SCALE: 1"=10'

MINE LICK CREEK RD.

BEGIN STA. 93+50.00
END STA. 95+00.00

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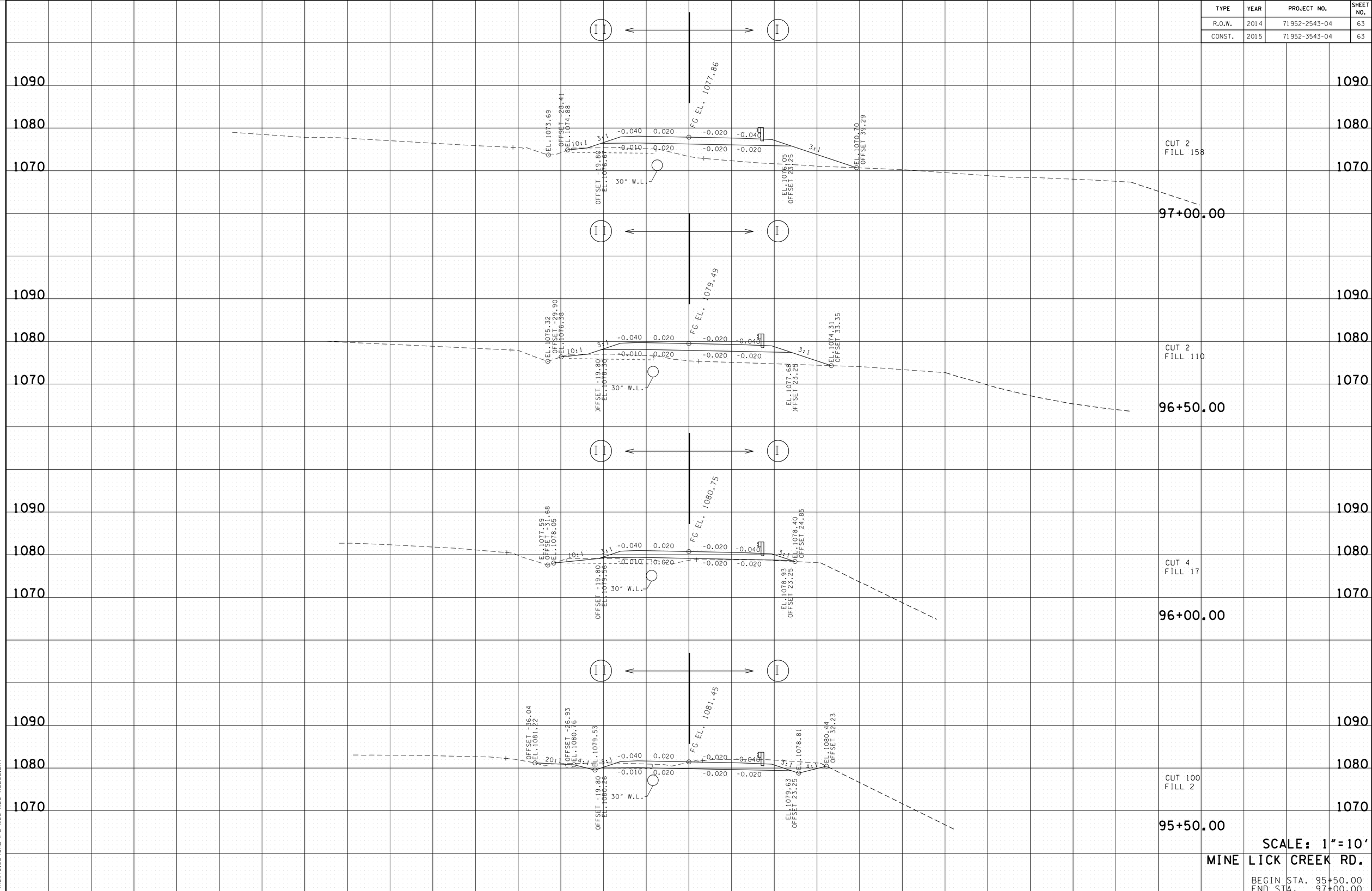
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	63
CONST.	2015	71952-3543-04	63



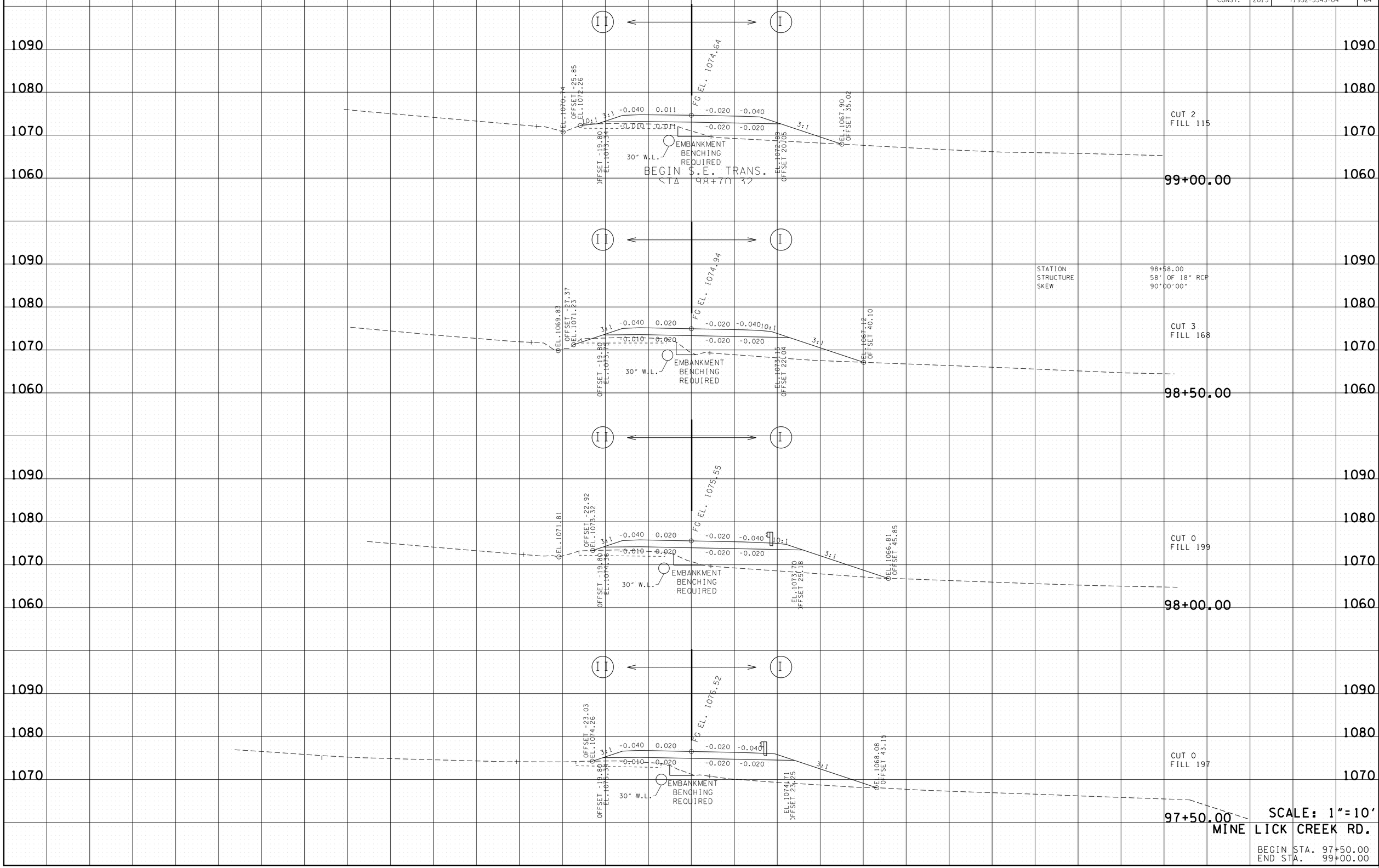
SCALE: 1"=10'

MINE LICK CREEK RD.

BEGIN STA. 95+50.00
END STA. 97+00.00

4/23/2015 9:50:34 AM
G:\HDII70.05\CAD\PU-MLC-MLC XSECS.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	64
CONST.	2015	71952-3543-04	64



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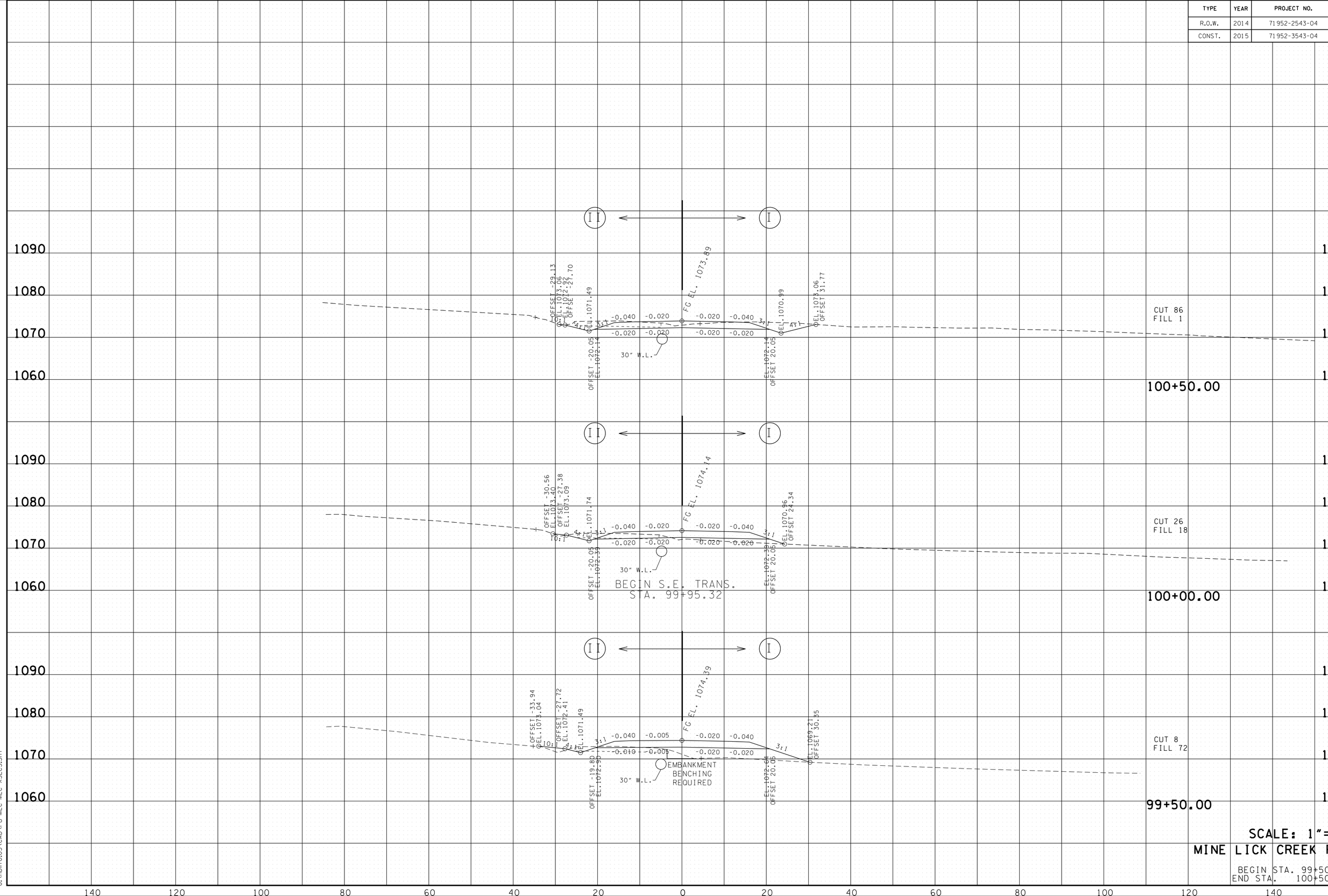
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	65
CONST.	2015	71952-3543-04	65



SCALE: 1"=10'

MINE LICK CREEK RD.

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

4/23/2015 9:50:39 AM
G:\HDII70.05\CAD\PU+MLC-MLC XSECS.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	66
CONST.	2015	71952-3543-04	66

STATION 102+05.00
STRUCTURE 38' OF 18" RCP
SKEW 90°00'00"

CUT 60
FILL 5

102+00.00

CUT 76
FILL 2

101+50.00

CUT 86
FILL 2

101+00.00

SCALE: 1"=10'

MINE LICK CREEK RD.

BEGIN STA. 101+00.00
END STA. 102+00.00

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

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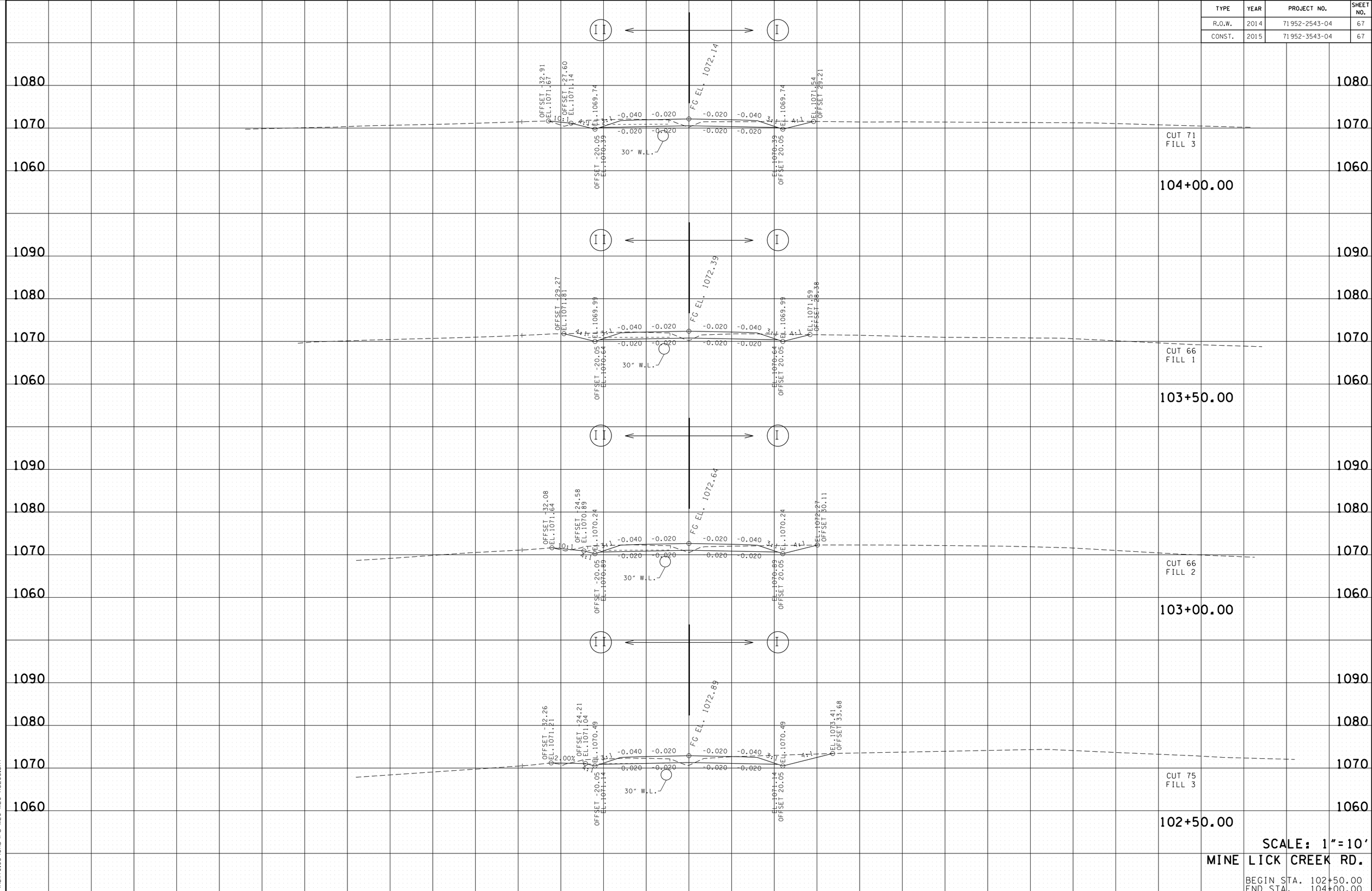
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	67
CONST.	2015	71952-3543-04	67



SCALE: 1"=10'

MINE LICK CREEK RD.

BEGIN STA. 102+50.00
END STA. 104+00.00

4/23/2015 9:50:43 AM
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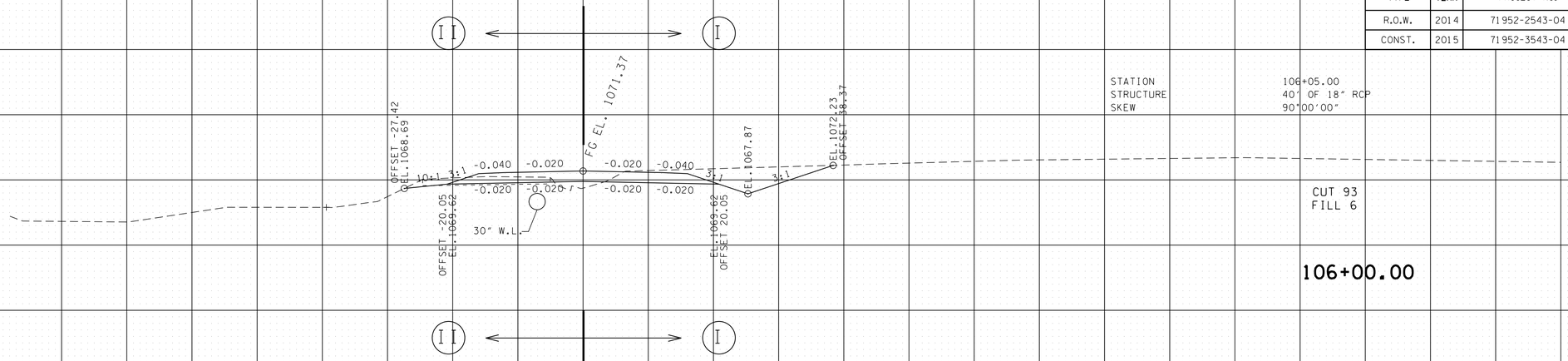
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	68
CONST.	2015	71952-3543-04	68

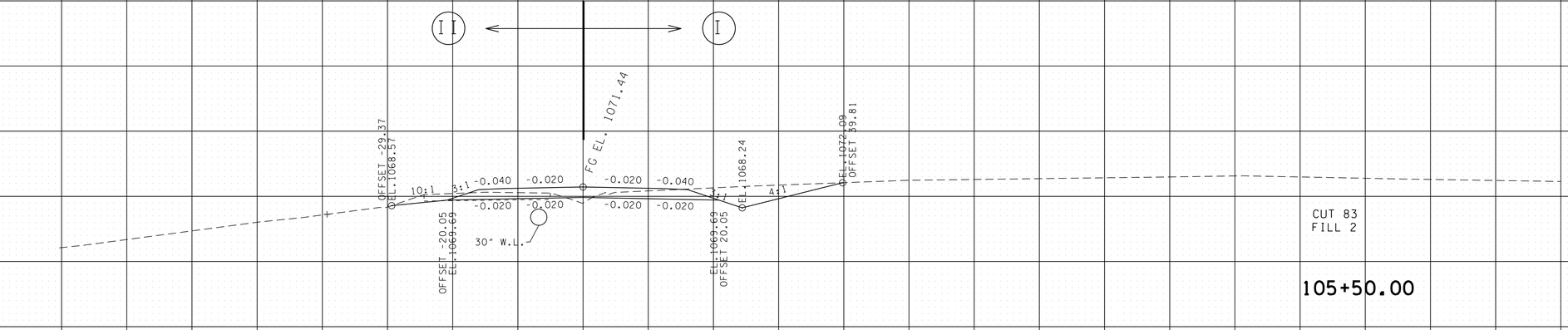
STATION 106+05.00
STRUCTURE 40' OF 18" RCP
SKEW 90°00'00"



CUT 93
FILL 6

106+00.00

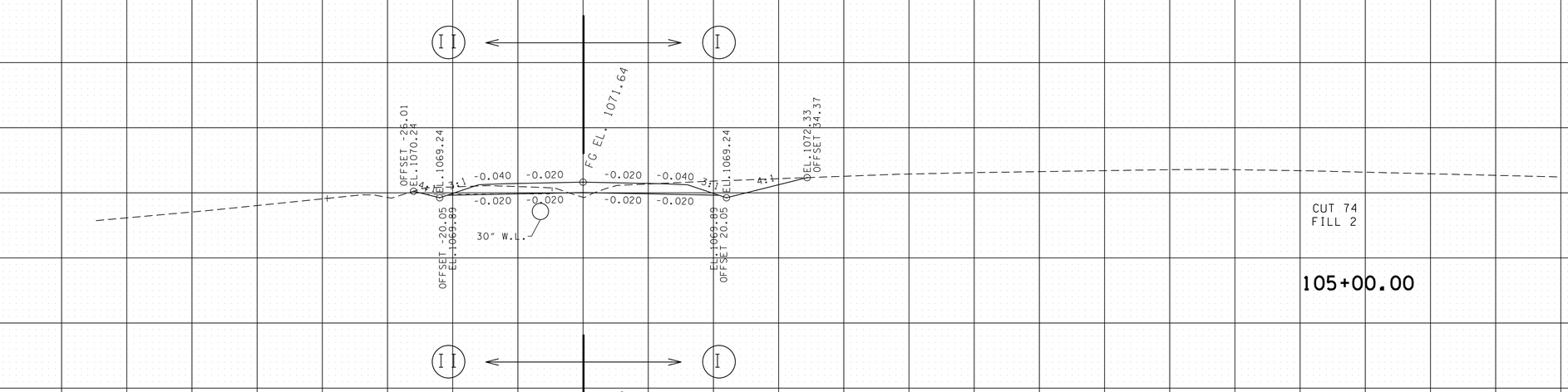
STATION 105+50.00



CUT 83
FILL 2

105+50.00

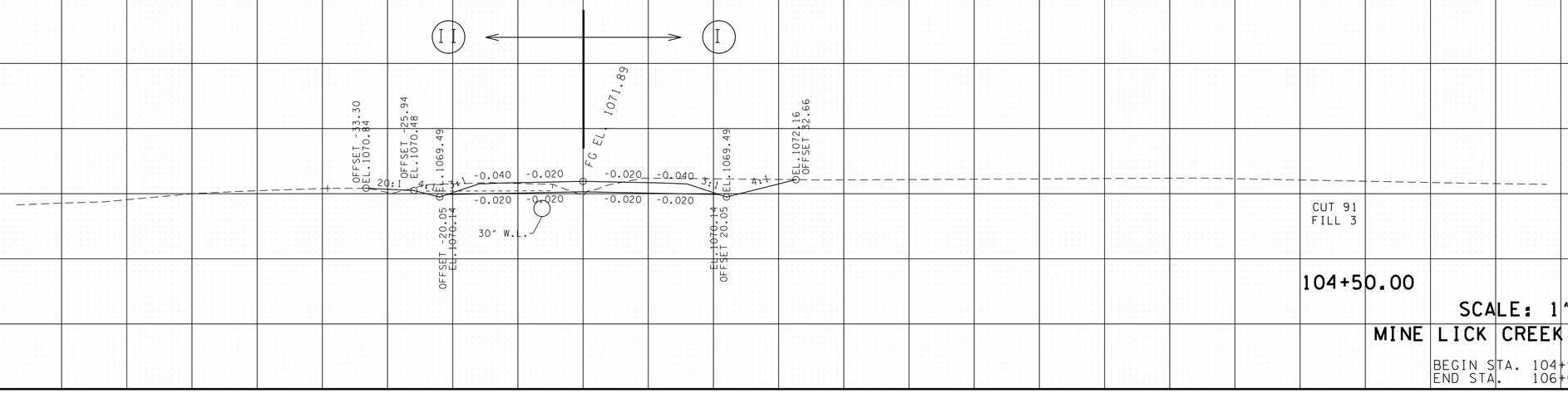
STATION 105+00.00



CUT 74
FILL 2

105+00.00

STATION 104+50.00



CUT 91
FILL 3

104+50.00

SCALE: 1"=10'

MINE LICK CREEK RD.

BEGIN STA. 104+50.00
END STA. 106+00.00

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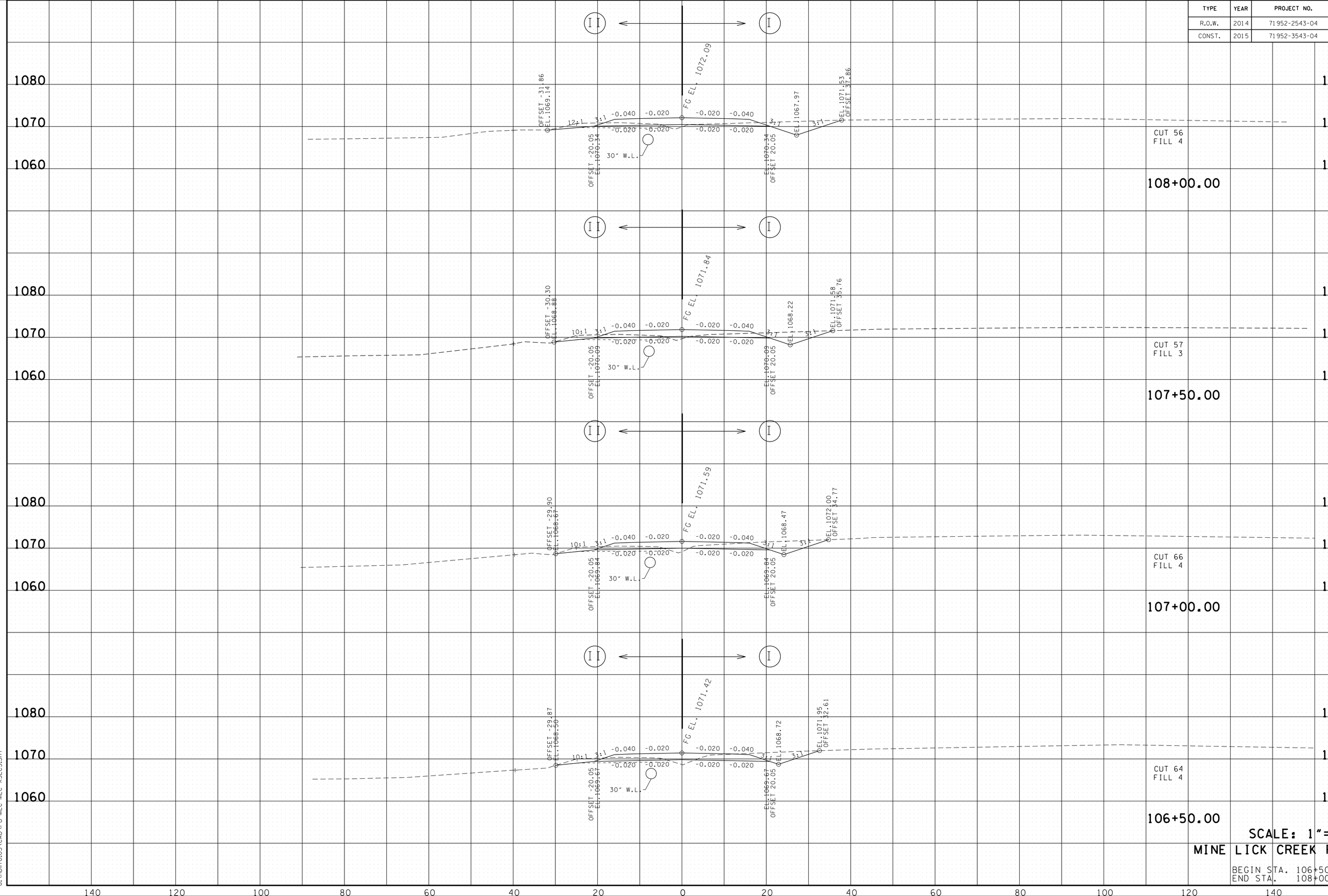
140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	69
CONST.	2015	71952-3543-04	69



SCALE: 1"=10'

MINE LICK CREEK RD.

BEGIN STA. 106+50.00
END STA. 108+00.00

4/23/2015 9:50:47 AM
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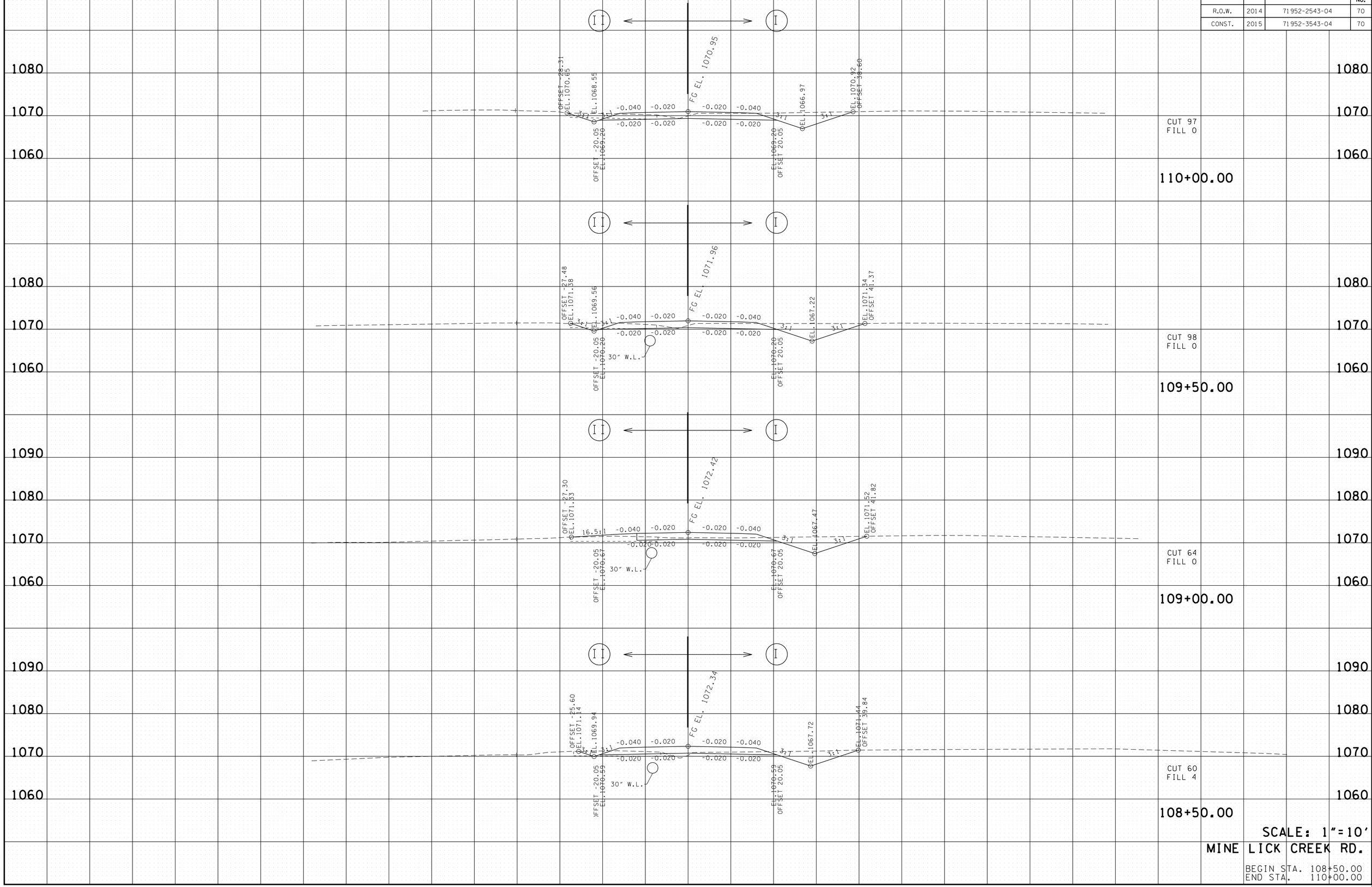
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	70
CONST.	2015	71952-3543-04	70



SCALE: 1"=10'

MINE LICK CREEK RD.

BEGIN STA. 108+50.00
END STA. 110+00.00

4/23/2015 9:50:49 AM
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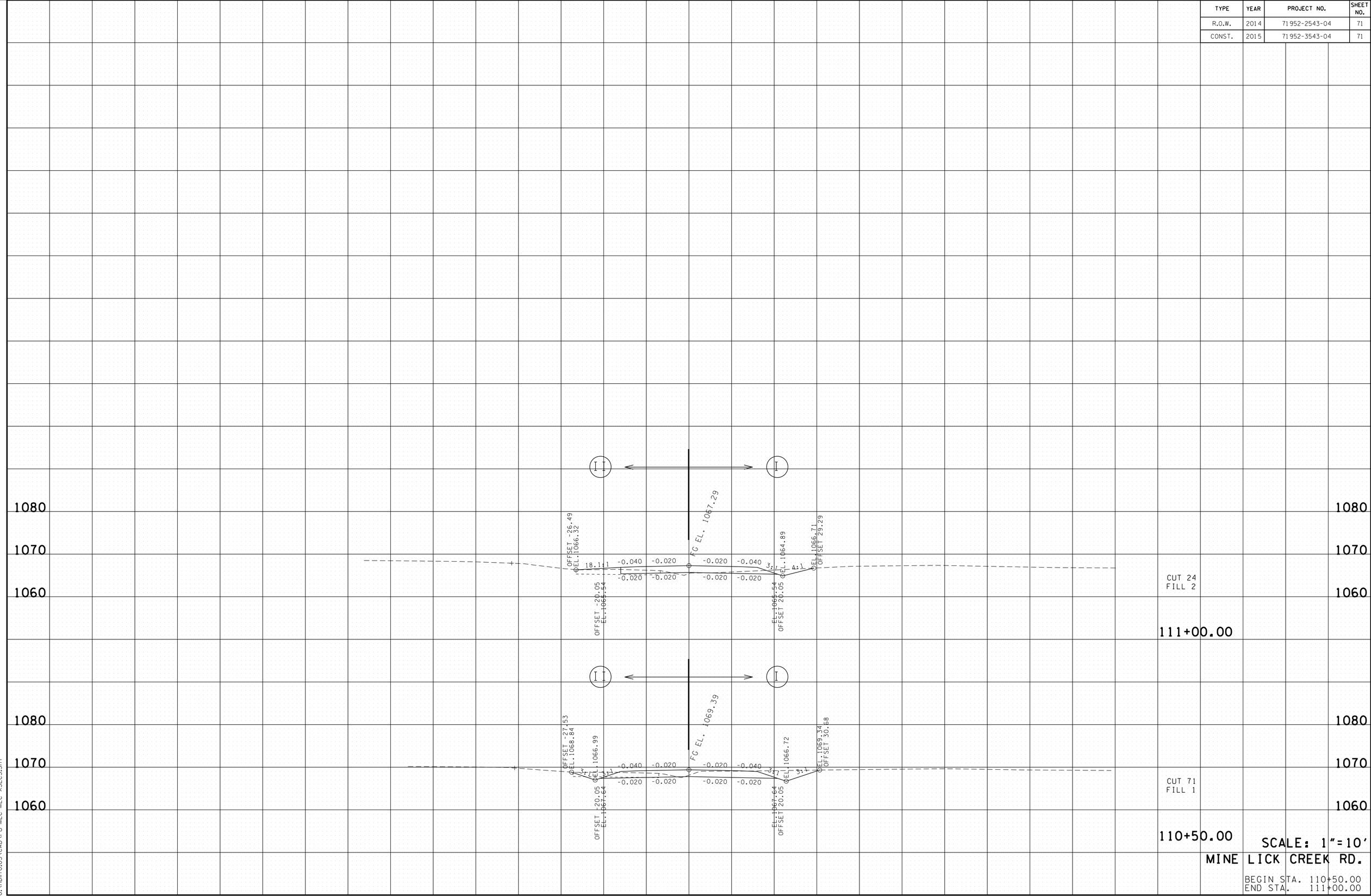
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	71
CONST.	2015	71952-3543-04	71



SCALE: 1"=10'

MINE LICK CREEK RD.

BEGIN STA. 110+50.00
END STA. 111+00.00

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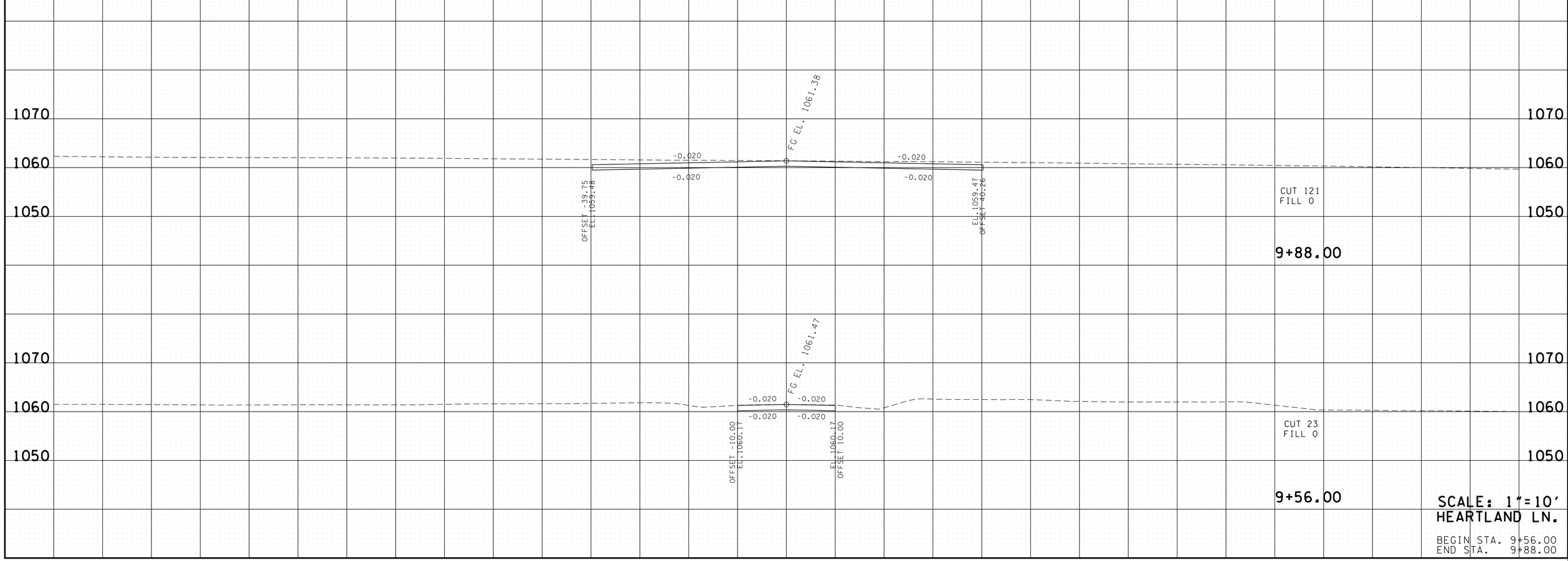
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	72
CONST.	2015	71952-3543-04	72



SCALE: 1"=10'

HEARTLAND LN.

BEGIN STA. 9+56.00
END STA. 9+88.00

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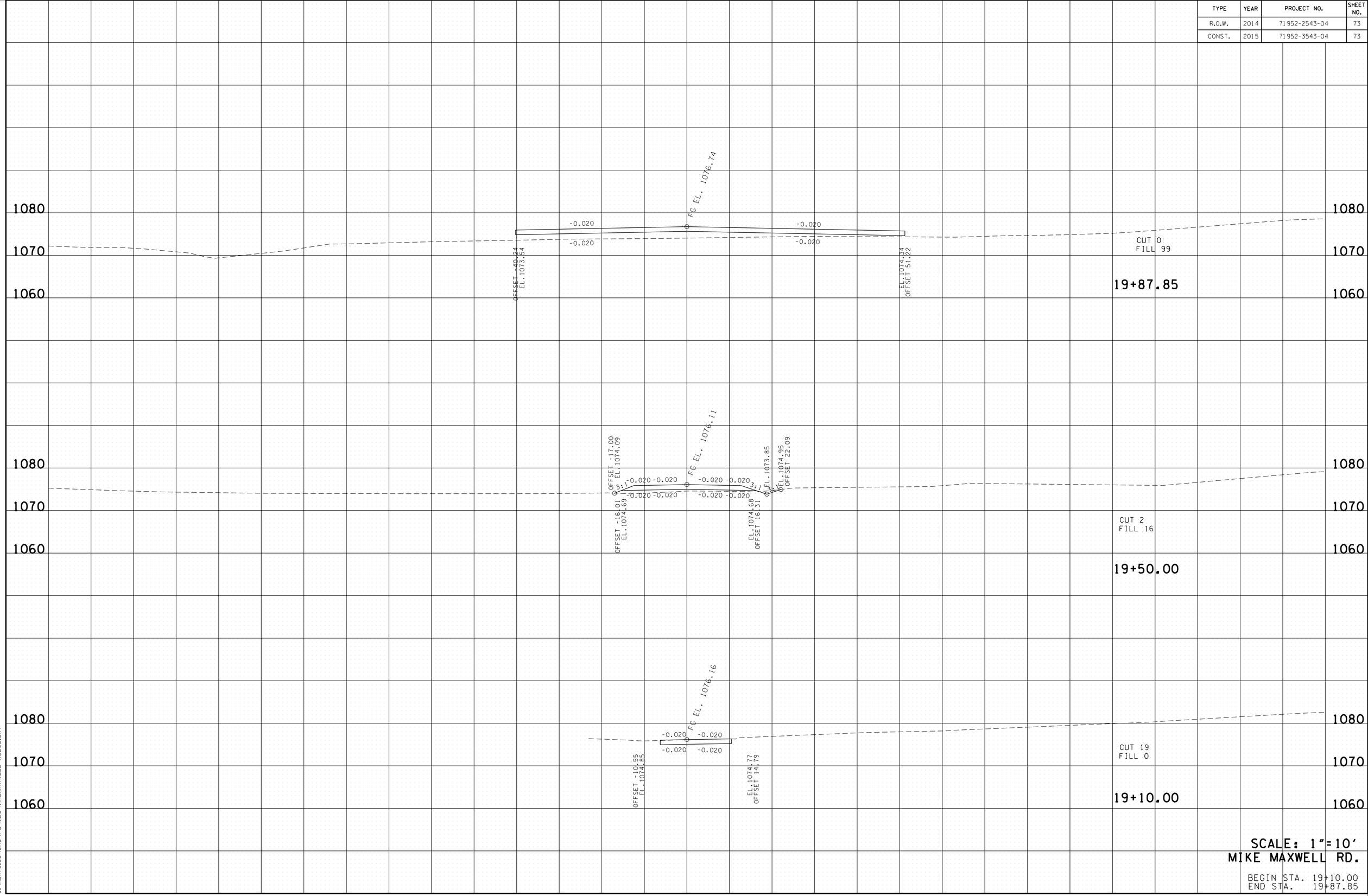
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	73
CONST.	2015	71952-3543-04	73



SCALE: 1"=10'

MIKE MAXWELL RD.

BEGIN STA. 19+10.00
END STA. 19+87.85

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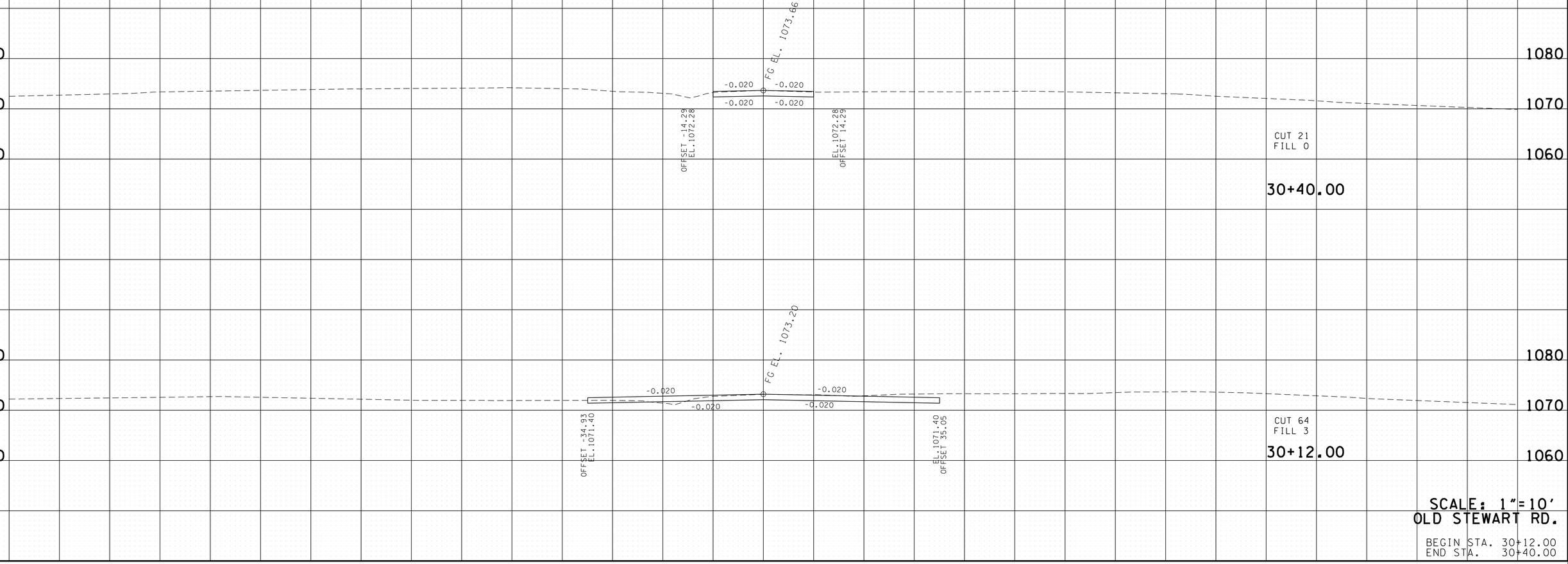
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2014	71952-2543-04	74
CONST.	2015	71952-3543-04	74



SCALE: 1"=10'

OLD STEWART RD.

BEGIN STA. 30+12.00
END STA. 30+40.00

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