THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:
Brandon Baxter
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RAGAN SMITH ASSOCIATES
315 WOODLAND STREET
NASHVILLE, TN 37206
BRANDON BAXTER, P.E. NO. 111639

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN1
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD ROADWAY DRAWINGS	1A1
STANDARD TRAFFIC OPERATIONS & STRUCTURE DRAWINGS	1A2
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B
GENERAL NOTES	2C, 2C1
SPECIAL NOTES	2C2
ENVIRONMENTAL NOTES	2D
TABULATED QUANTITIES	2E, 2E1
DETAIL SHEETS	2F
RIGHT-OF-WAY NOTES, UTILITY NOTES, UTILITY OWNERS AND RIGHT-OF-WAY ACQUISITION TABLE	3
PROPERTY MAP	3A
PRESENT LAYOUTS	4 – 6
RIGHT OF WAY DETAILS	4A – 6A
PROPOSED LAYOUTS	4B – 6B
PROPOSED PROFILE	7
SIDE ROADS PROFILE	8
PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILE	9
DRAINAGE MAP	10
CULVERT SECTION	11
EROSION PREVENTION AND SEDIMENT CONTROL PLANS	12 - 15B
ROADWAY CROSS SECTIONS	16 – 31
TRAFFIC CONTROL PLANS	T1 - T2
SIGNAL PLANS	SIG-1, SIG-2
UTILITIES INDEX	U1–1

YEAR	PROJECT NO.	SHEET NO.
2025	HSIP-4965(10)	ROADWAY-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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315 WOODLAND STREET
NASHVILLE, TN 37206
BRANDON BAXTER, P.E. NO. 111639

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.

YEAR	PROJECT NO.	SHEET NO.
2025	HSIP-4965(10)	ROADWAY-SIGN2

REV. 01/02/2025: ADDED SHEET ROADWAY-SIGN2, REVISED SHEETS 1A AND 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

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INDEX OF SHEETS

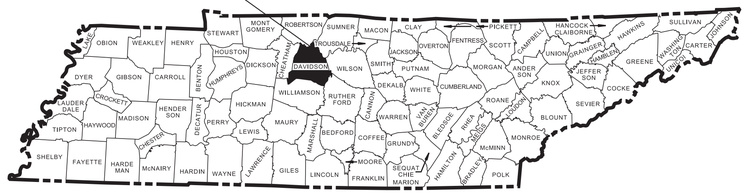
SEE SHEET NO. 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES	NO X
WORK ZONE SIGNIFICANCE DETERMINATION		
SIGNIFICANT	YES	NO X

TENN.	YEAR	SHEET NO.
	2025	1
FED. AID PROJ. NO.	HSIP-4965(10)	
STATE PROJ. NO.	19129-3201-94	

PROJECT LOCATION
DAVIDSON COUNTY



DAVIDSON COUNTY

HAMILTON CHURCH ROAD
FROM EAST OF SR-1 TO WEST OF
CALUMET DRIVE IN NASHVILLE

PS&E

PEDESTRIAN SIGNAL/SIDEWALK IMPROVEMENTS

STATE HIGHWAY NO. N/A U.S. ROUTE NO. N/A

19129-3201-94
BEGIN PROJECT NO. HSIP-4965(10) CONST.

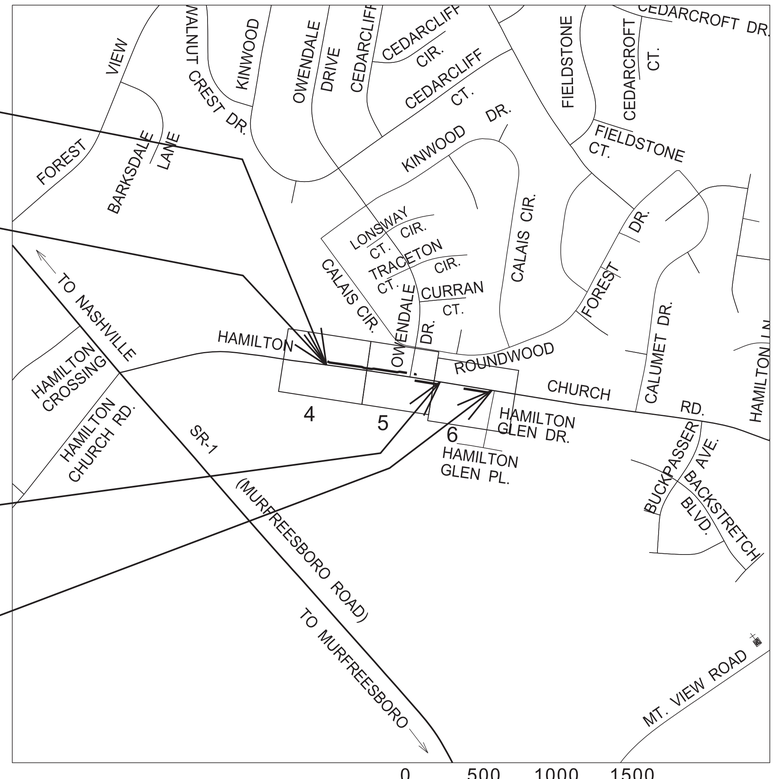
STA. 52+34.35

N 630969.5849 E 1784195.2448

19129-2201-94
BEGIN PROJECT NO. HSIP-4965(10) R.O.W.

STA. 52+30.00

N 630970.1600 E 1784190.9327



N

SCALE: 1"= 500'

0 500 1000 1500 FEET

19129-2201-94
END PROJECT NO. HSIP-4965(10) R.O.W.

STA. 59+90.06

N 630858.2074 E 1784942.6715

19129-3201-94
END PROJECT NO. HSIP-4965(10) CONST.

STA. 63+24.83

N 630804.3333 E 1785273.0796

R.O.W. LENGTH	0.143 MILES
ROADWAY LENGTH	0.175 MILES
BRIDGE LENGTH	0.00 MILES
BOX BRIDGE LENGTH	0.00 MILES
BOX BRIDGE LENGTH	0.00 MILES ▲
PROJECT LENGTH	0.175 MILES

▲ Not included in the project length (Non Riding Surface).

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, 2021 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT STATEWIDE TRANSPORTATION ENGINEER : STEPHEN K. BRYAN, PE, PTOE

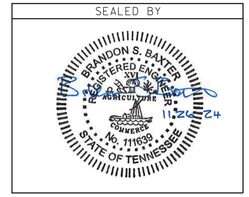
DESIGNED BY : RAGAN-SMITH ASSOCIATES

DESIGNER : BRANDON S. BAXTER, PE, PTOE CHECKED BY TIFFANY R. REID, PE, PTOE

P.E. NO. 19129-1201-94 (DESIGN)

PIN NO. 125999.00

SEALED BY



EXCLUSIONS

STATION TO STATION	LENGTH (FT.)
59+84.86 - 61+49.71	164.85
-	.
TOTAL=	164.85

APPROVED:

WILL REID, CHIEF ENGINEER

DATE:

APPROVED:

HOWARD H. ELEY, COMMISSIONER

SURVEY 12-08-19

UPDATE 05-08-24

TRAFFIC DATA

ADT (2024)	12,640
ADT (2029)	13,920
DHV (2029)	1,392
D	55 - 45
T (ADT)	2 %
T (DHV)	1 %
V	45 MPH

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID g2003u07.

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	HSIP-4965(10)	1A

REV. 01/02/2025: ADDED SHEET ROADWAY-SIGN2 TO INDEX OF SHEETS.

PS&E INDEX OF SHEETS

NOTES: NO PROJECT COMMITMENTS
SHEET 2A IS NOT INCLUDED IN THIS PLAN SET

STANDARD ROADWAY DRAWINGS

DWG. NO.	REV.	DESCRIPTION
STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS		
RD-TP-1	10-01-24	STANDARD ROADWAY DRAWINGS TITLE SHEET
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	02-20-20	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
RD-L-2	02-20-20	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	03-01-23	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	10-01-24	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
ROADWAY DESIGN STANDARDS		
RD11-SE-1		TRANSITION AND CROSS SLOPE DETAILS
RD11-SE-2		SUPERELEVATION TRANSITION DETAILS FOR UNDIVIDED ROADWAYS
RD11-SE-2A		SUPERELEVATION TRANSITION SECTIONS FOR UNDIVIDED ROADWAYS
RD11-TS-2		DESIGN STANDARDS FOR COLLECTORS, 2-LANE ROADS AND STREETS
RD11-TS-6A		TYPICAL CURB & GUTTER SECTIONS WITHOUT SHOULDERS AND WITH GRASS STRIPS
RD11-LR-1		MINIMUM RUNOFF LENGTHS (LR) FOR URBAN HIGHWAYS
RD11-LR-2		MINIMUM RUNOFF LENGTHS (LR) FOR RURAL HIGHWAYS
RD11-S-11		DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD11-S-11A		ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD11-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD11-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
PIPE CULVERTS AND ENDWALLS		
D-PB-1	03-01-23	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-4	01-09-24	PIPE COLLAR DETAILS
D-PG-3	06-28-19	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
D-PS-1	06-28-19	STRUTTING DETAILS FOR CORR. METAL & STRUCTURAL PLATE ROUND PIPE
D-PEW-1		PROTECTED ENDWALLS FOR ROUND & OVAL PIPES (PIPE SIZES 18" TO 72", ALL SKEWS, 2:1 & 3:1 SLOPES)
D-PEW-2		PROTECTED ENDWALLS FOR ROUND PIPES DETAILS & QUANTITIES (PIPE SIZES 18" TO 72", ALL SKEWS, 2:1 & 3:1 SLOPES)

DWG. NO.	REV.	DESCRIPTION
CATCH BASINS AND MANHOLES		
D-CB-12P	02-20-20	STANDARD PRECAST RECTANGULAR CONCRETE NO.12 CATCH BASIN
D-CB-14P	02-20-20	STANDARD PRECAST RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-JBS-2	02-20-20	STANDARD 4' X 4' SQUARE CONCRETE NO. 2 JUNCTION BOX
D-JBS-3	02-20-20	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 3 JUNCTION BOX
D-RJB-1		PRECAST ROUND JUNCTION BOX STRUCTURES (48" THRU 120")
D-RSB-1		PRECAST ROUND SPRING DRAIN BOX STRUCTURES (48" THRU 120")
ROADWAY, PAVEMENT APPURTENANCES, AND FENCES		
RP-D-15	06-15-21	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-D-16	10-29-21	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
RP-I-5	05-01-20	EXAMPLES OF STREET & ALLEY INTERSECTIONS
RP-VC-10	03-04-21	VERTICAL CONCRETE CURB AND CURB AND GUTTER (FOR 8" TO 12" GUTTER DEPTH)
RP-VC-11	03-04-21	VERTICAL CONCRETE CURB AND CURB AND GUTTER (FOR 6" & 7" GUTTER DEPTH)
S-F-1	03-01-23	HIGH VISIBILITY FENCE
MULTIMODAL		
MM-CR-1	06-28-19	DETECTABLE WARNING SURFACE PLACEMENT ON CURB RAMPS
MM-CR-3		PARALLEL CURB RAMP
MM-CR-5	06-28-19	SINGLE CROSSING CURB RAMP IN CURVE
MM-CR-8		MONO-DIRECTIONAL SINGLE CROSSWALK CURB RAMP DETAILS
MM-BPR-1	07-30-24	BIKE AND PEDESTRIAN SAFETY RAIL
MM-SW-1	07-07-23	DETAILS FOR CONCRETE SIDEWALKS
MM-SW-2		ALTERNATE DETAILS FOR CONCRETE SIDEWALK (REHABILITATION)
DESIGN - TRAFFIC CONTROL		
T-M-1	06-28-19	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	01-09-24	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-4	07-17-20	STANDARD INTERSECTION PAVEMENT MARKINGS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-55	10-29-21	SIDEWALK TRAFFIC CONTROL
T-WZ-FAB1		FLASHING YELLOW ARROW BOARD

SEALED BY

BRANDON S. BAXTER
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
No. 111639
STATE OF TENNESSEE
1-3-25

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

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STANDARD ROADWAY DRAWINGS (CONTINUED)

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	HSIP-4965(10)	1A1

DWG. NO.	REV.	DESCRIPTION
EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-3C	03-01-23	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-6	11-30-20	ROCK CHECK DAM
EC-STR-11	03-16-17	CULVERT PROTECTION TYPE 1
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-39	08-01-12	CURB INLET PROTECTION TYPE 1 & 2
EC-STR-42		CATCH BASIN FILTER ASSEMBLY (TYPE 2)
EC-STR-42A		CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER DETAILS
EC-STR-46		CATCH BASIN FILTER ASSEMBLY (TYPE 6)
EC-STR-46A		CATCH BASIN FILTER ASSEMBLY (TYPE 6) SLIPCOVER DETAILS
EC-STR-47		CATCH BASIN FILTER ASSEMBLY (TYPE 7)
EC-STR-47A		CATCH BASIN FILTER ASSEMBLY (TYPE 7) SLIPCOVER DETAILS

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DEPARTMENT OF TRANSPORTATION

STANDARD
ROADWAY
DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	HSIP-4965(10)	1A2

STANDARD TRAFFIC OPERATIONS DRAWINGS

DWG.	REV.	DESCRIPTION
SIGNALS		
T-SG-2	06-27-16	LOOP LEAD-INS, CONDUIT AND PULL BOXES
T-SG-3	07-11-17	STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS
T-SG-3A	06-27-16	ALTERNATE DETECTION DETAILS
T-SG-5	06-27-16	CONTROLLER CABINET DETAILS
T-SG-6	10-21-19	PEDESTRIAN SIGNAL DETAILS
T-SG-7	10-21-19	SIGNAL HEAD ASSEMBLIES
T-SG-7A		TYPICAL SIGNAL HEAD PLACEMENT APPROACHES WITH NO THROUGH MOVEMENTS
T-SG-7B	10-21-19	TYPICAL SIGNAL HEAD PLACEMENT APPROACHES WITH NO THROUGH MOVEMENTS
T-SG-7C		TYPICAL SIGNAL HEAD PLACEMENT ONE-LANE AND TWO-LANE APPROACHES
T-SG-7D	09-12-23	TYPICAL SIGNAL HEAD PLACEMENT TWO-LANE APPROACHES
T-SG-9	07-15-24	DETAILS OF CANTILEVER SIGNAL SUPPORT
T-SG-9A	07-12-17	MISCELLANEOUS SIGNAL DETAILS
T-SG-10	09-12-23	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS
T-SG-11	07-12-17	MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION
T-SG-12	12-20-19	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS

STANDARD STRUCTURE DRAWINGS

LRFD BOX CULVERTS

STD-17-1		INDEX OF DRAWINGS
STD-17-2		TERMINOLOGY
STD-17-3		GENERAL NOTES
STD-17-4		DESIGN SECTION LIMITS
STD-17-5		TYPICAL SECTION AND DETAILS
STD-17-6		TYPICAL ELEVATIONS
STD-17-10		TYPICAL WINGWALL DETAILS AND NOTES
STD-17-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-15		WINGWALL & SPECIAL RETAINING WALL DESIGN SECTIONS
STD-17-16		WINGWALL DESIGN SECTION
STD-17-17	06-01-11	BACKFILL AND DRAINAGE DETAILS
STD-17-18		BACKFILL DETAILS
STD-17-23		SIDEWALK AND MISCELLANEOUS DETAILS
STD-17-26		EXTENSION DETAILS
STD-17-28		END SECTION DETAILS
STD-17-29		PRECAST BOX CULVERT DETAILS
STD-17-54		BOX BRIDGE, 1 BARREL AT 10', CLEAR HTS. 4' - 6', 0 - 60' FILL

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DEPARTMENT OF TRANSPORTATION

STANDARD STRUCTURE AND TRAFFIC OPERATION DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	2
PS&E	2025	HSIP-4965(10)	2

REV. 01/02/2025: ADDED ITEM NOS. 202-04.02, 303-01.01, 604-1.01, AND 604-01.02. DELETED ITEMS NOS. 604-02.01, 604-02.02, AND 607-50.01. ADDED FOOTNOTE 13.

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 19129-3201-94
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
	202-02.01	REMOVAL OF PIPE (18" CMP, STA. 61+45)	L.F.	17
	202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	200
	202-04.01	REMOVAL OF STRUCTURES (ENDWALLS, STA. 61+51 & 62+79)	LS	1
	202-04.02	REMOVAL OF STRUCTURES (PARTIAL, WINGWALLS, STA. 52+56.50)	LS	1
	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	425
	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	795
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	190
	203-06	WATER	M.G.	2
	204-06.01	FLOWABLE FILL (GENERAL)	C.Y.	40
(1)	209-05	SEDIMENT REMOVAL	C.Y.	7
(1)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	200
(1)	209-08.07	ROCK CHECK DAM PER	EACH	12
(1)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	5
(1)	209-09.41	CURB INLET PROTECTION (TYPE 2)	EACH	4
(1)	209-40.46	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EACH	1
(1)	209-40.47	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EACH	1
(2)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	400
	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	43
(3)	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	3
	407-20.05	SAW CUTTING ASPHALT PAVEMENT	L.F.	905
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	14
(13)	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	23
(13)	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	4212
	604-01.20	BOX TUBE SAFETY RAIL	L.F.	75
	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	178
	607-37.02	18" CORRUGATED METAL PIPE CULVERT	L.F.	26
	607-37.03	24" CORRUGATED METAL PIPE CULVERT	L.F.	24
	607-39.03	24" PIPE CULVERT (SIDE DRAIN)	L.F.	24
	607-40.04	CORRUGATED METAL PIPE ARCH (SIZE EQUIV. 24" ROUND)	L.F.	54
	611-02.11	JUNCTION BOX, TYPE 2	EACH	1
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	3
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	86
	611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	1
	611-14.02	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH	1
(4)	701-01.01	CONCRETE SIDEWALK (4 ")	S.F.	4146
	701-02	CONCRETE DRIVEWAY	S.F.	405
(5)	701-02.03	CONCRETE CURB RAMP	S.F.	264
	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	58
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	100
	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	59
	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	34
	712-01	TRAFFIC CONTROL	LS	1
	712-04.10	TEMPORARY FLEXIBLE TUBULAR DELINEATOR	EACH	30
	712-06	SIGNS (CONSTRUCTION)	S.F.	320
(6)	712-08.03	ARROW BOARD (TYPE C)	EACH	2
	713-14.21	STREET NAME SIGN (RIGID 0.100IN THICK)	S.F.	18
(6)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2
	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	44
	716-02.09	PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	L.F.	65
	716-08.03	REMOVAL OF PAVEMENT MARKING (CROSS-WALK)	L.F.	18
	716-08.05	REMOVAL OF PAVEMENT MARKING (STOP LINE)	L.F.	48
	717-01	MOBILIZATION	LS	1

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY 19129-3201-94
(7)	730-01.02	REMOVAL OF SIGNAL EQUIPMENT	EACH	1
	730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	EACH	5
	730-02.17	SIGNAL HEAD ASSEMBLY (150 A2H WITH BACKPLATE)	EACH	1
	730-03.21	INSTALL PULL BOX (TYPE B)	EACH	2
	730-08.02	SIGNAL CABLE - 5 CONDUCTOR	L.F.	224
	730-08.03	SIGNAL CABLE - 7 CONDUCTOR	L.F.	132
	730-08.05	SIGNAL CABLE - 12 CONDUCTOR	L.F.	310
	730-08.08	SIGNAL CABLE - 2 CONDUCTOR SHIELDED	L.F.	489
	730-12.02	CONDUIT 2" DIAMETER (PVC SCHEDULE 40)	L.F.	109
	730-12.23	CONDUIT 2" DIAMETER (DIRECTIONAL BORE)	L.F.	250
(8)	730-13.12	VEHICLE DETECTOR (RADAR - STOP LINE)	EACH	3
(8)	730-13.13	VEHICLE DETECTOR (RADAR-ADVANCE)	EACH	2
(9)	730-15.11	MODIFY CABINET (INSTALL NEW EQUIPMENT AND TIMINGS)	EACH	1
(10)	730-23.28	PEDESTAL POLE (TYPE A)	EACH	2
(11)	730-23.70	CANTILEVER SIGNAL SUPPORT (2 @ 30' & 40')	EACH	1
(12)	730-26.11	COUNTDOWN PED SGNL HEAD W/AUDIBLE PUSH BUTTON & 15IN SIGN	EACH	3
	740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	1375
	801-03	WATER (SEEDING & SODDING)	M.G.	1
	803-01	SODDING (NEW SOD)	S.Y.	1225
	920-10.05	18" RCP 22.5 DEGREE ELBOW	EACH	1

FOOTNOTES

(1) ALL EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
(2) INCLUDED 150 TONS FOR TRAFFIC CONTROL AND DRIVEWAY MAINTENANCE
(3) TO BE USED FOR SPOT AND SHOULDER REPAIR AS DIRECTED BY TDOT ENGINEER
(4) INCLUDES 104 TONS OF 303-01 MATERIAL TO CONSTRUCT 4" BASE UNDER SIDEWALKS
(5) INCLUDES 6 TONS OF 303-01 MATERIAL TO CONSTRUCT 4" BASE UNDER CURB RAMPS
(6) TO BE USED AS DIRECTED BY THE ENGINEER
(7) INCLUDES WORK NECESSARY TO REMOVE 2 EXISTING SIGNAL POLES, SIGNAL HEADS, AND SIGNS. POLE FOUNDATIONS SHALL BE REMOVED TO 6 INCHES BELOW PROPOSED GROUND ELEVATION.
(8) RADAR DETECTION SHALL BE WAVETRONIX SMARTSENSOR MATRIX STOP LINE DETECTION AND SMARTSENSOR ADVANCE. INCLUDES ALL SENSOR UNITS, HARDWARE, SOFTWARE, MOUNTING ASSEMBLIES, 480' OF INSTALLATION CABLE, AND ALL RELATED EQUIPMENT TO PROVIDE ALL DETECTION ZONES AS SHOWN IN THE PLANS.
(9) INCLUDES WORK NECESSARY TO INSTALL NEW TRAFFIC SIGNAL AND PEDESTRIAN EQUIPMENT AND TIMINGS
(10) POLE HEIGHT SHALL BE 10 FEET
(11) SEE SPECIAL PROVISION 700SIG FOR POLE DESIGN REQUIREMENTS. BID ITEM SHALL INCLUDE THE COST OF ALL MATERIALS AND LABOR NECESSARY FOR COMPLETE INSTALLATION OF THE POLE FOUNDATION. SELECT THE APPROPRIATE FOUNDATION DESIGN FROM STANDARD DRAWING T-SG-10.
(12) PUSHBUTTON SHALL BE POLARA BULLDOG III
(13) CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WLL BE INCLUDED IN THE COST OF OTHER ITEMS

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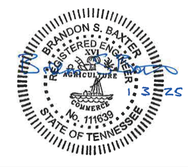

1-3-25

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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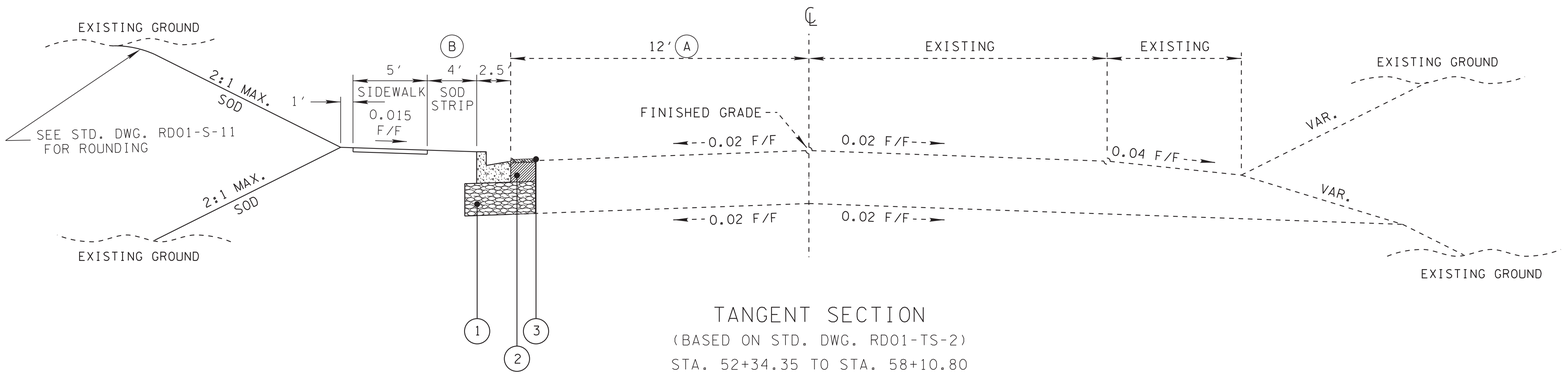
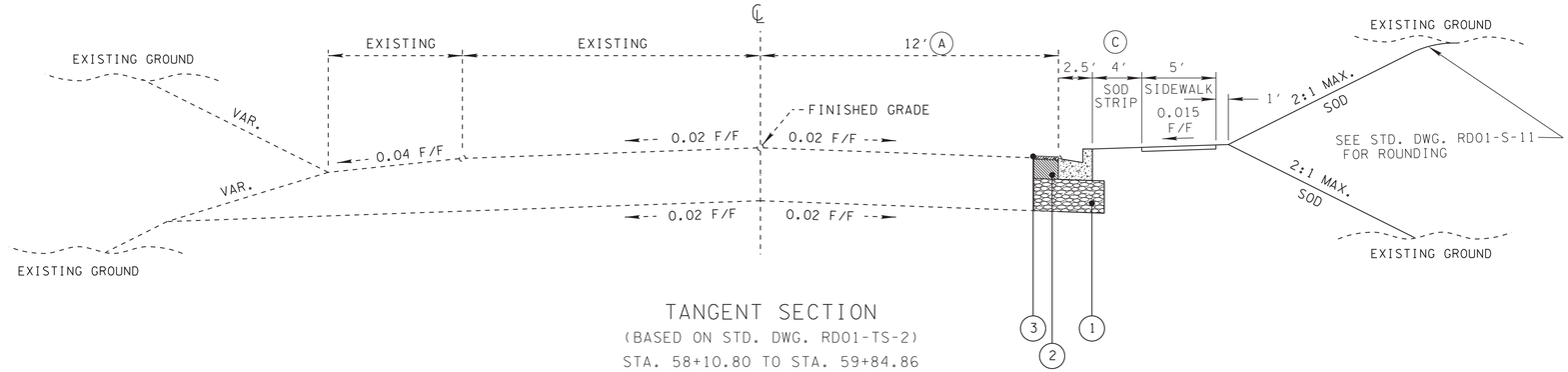
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	2B
PS&E	2025	HSIP-4965(10)	2B



TANGENT SECTION
(BASED ON STD. DWG. RD01-TS-2)
STA. 52+34.35 TO STA. 58+10.80



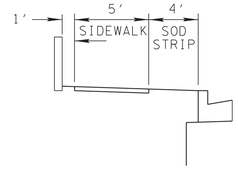
TANGENT SECTION
(BASED ON STD. DWG. RD01-TS-2)
STA. 58+10.80 TO STA. 59+84.86
STA. 61+49.71 TO STA. 63+24.83

Ⓐ SEE SHEET 2F FOR DETAIL OF WIDENING

Ⓑ SOD STRIP VARIES FROM 4'-0" AT STA. 54+64.60 TO 0'-0" AT STA. 54+79.59
SOD STRIP IS 0'-0" FROM STA. 54+79.59 TO STA. 57+71.54

Ⓒ SOD STRIP IS 0'-0" FROM STA. 58+10.80 TO STA. 58+44.84
SOD STRIP VARIES FROM 0'-0" AT STA. 58+44.84 TO 4'-0" AT STA. 58+61.71

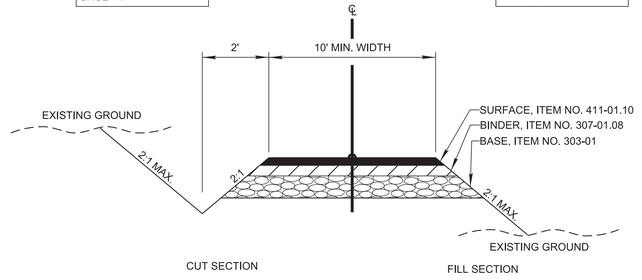
EXCLUSIONS
STA. 59+84.86 TO STA. 61+49.71



PEDESTRIAN BARRIER RAIL
STA. 52+20.00 TO STA. 52+93.00
SEE PROPOSED LAYOUT SHEET 4B

BUSINESS
SURFACE - 1¼"
BINDER - 1¾"
BASE - 4"

FIELD OR RESIDENTIAL
SURFACE - 1½"
BINDER - NONE
BASE - 4"



TYPICAL SECTION
PRIVATE DRIVE TO BUSINESS,
FIELD, OR RESIDENTIAL PROPERTY

NOTE: DITCH TO BE CONSTRUCTED WHERE DIRECTED BY THE ENGINEER
FOR CONCRETE DRIVEWAYS USE 6" OF CONCRETE (ITEM 701-02)
AND 4" OF BASE (ITEM 303-01)

PROPOSED PAVEMENT SCHEDULE

①	MINERAL AGGREGATE BASE @ 8.00" THICK 303-01 MINERAL AGGREGATE TYPE "A" BASE, GRADING D
②	BASE @ 7.00" THICK 204-06.01 FLOWABLE FILL (GENERAL)
③	BITUMINOUS SURFACE @ 1.25" THICK (APPROX 132.5 LBS. / SQ. YD.) 411-01.10 ACS MIX (PG64-22) GRADING D

SEALED BY

BRANDON S. BAXTER
REGISTERED ENGINEER
No. 111639
STATE OF TENNESSEE
11.26.24

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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GENERAL NOTES

GRADING

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

(2) 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 (FEMA) WITHOUT APPROVAL BY FEMA. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING AND SODDING

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

DRAINAGE

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

(2) CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(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 WILL NOT RESULT IN AN INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT THAT 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.

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 AND POSTS WHERE AND AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR OTHER CONSTRUCTION ITEMS.

(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

FINAL PAVEMENT MARKING

(1) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6" 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. 716-13.02, SPRAY THERMO PVMT MRKNG (60 mil) (6IN 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.

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.

SIGNING

(1) FOR ALL PERMANENT PANEL SIGNS WITH A SILVER-WHITE, YELLOW, RED, GREEN, BROWN, OR BLUE BACKGROUND, PROVIDE REFLECTIVE SHEETING THAT MEETS OR EXCEEDS AASHTO M268, TYPE D.

(2) ALL SIGNS WHICH INTERFERE WITH CONSTRUCTION WILL BE RELOCATED OUTSIDE LIMITS OF CONSTRUCTION BY THE CONTRACTOR. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL RESTORE THE SIGNS TO ORIGINAL LOCATION. THE CONTRACTOR SHALL CHECK WITH THE REGIONAL TRAFFIC ENGINEER PRIOR TO MOVING ANY PERMANENT SIGNS.

SIGNALIZATION

(1) EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE TDOT "SPECIAL PROVISIONS REGARDING SECTION 730N-TRAFFIC SIGNALS."

(2) SALVAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF THE NASHVILLE DEPARTMENT OF TRANSPORTATION AND SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICKUP BY THE NASHVILLE DEPARTMENT OF TRANSPORTATION.

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

(4) THE CONTRACTOR SHALL CONTACT THE NASHVILLE DEPARTMENT OF TRANSPORTATION (MIKE HIRTZER, 615-880-3261, MICHAEL.HIRTZER@NASHVILLE.GOV) A MINIMUM OF THIRTY (30) DAYS PRIOR TO ACTIVATION OF THE SIGNAL TO OBTAIN THE INITIAL SIGNAL TIMINGS.

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, 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 AN 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 FLEXIBLE DRUMS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

(9) THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING CONSTRUCTION SIGNS. THE COST OF THIS WORK SHALL BE INCLUDED IN ITEM NO. 712-06, SIGNS (CONSTRUCTION), S.F.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	HSIP-4965(10)	2C

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GENERAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	HSIP-4965(10)	2C1

SPECIAL NOTES

SIGNALIZATION

(1) THE TRAFFIC SIGNAL SUPPORT POLES SHALL BE POLES WITH CURVED CANTILEVERED ARM(S) IN ACCORDANCE WITH NASHVILLE DEPARTMENT OF TRANSPORTATION. FOR POLE AND ARM DETAILS, CONTACT MIKE HIRTZER AT MICHAEL.HIRTZER@NASHVILLE.GOV OR 615-880-3261.

(2) ALL CIRCULAR AND ARROW INDICATIONS WITHIN ALL VEHICULAR SIGNAL HEADS PROPOSED FOR THIS PROJECT SHALL CONSIST OF AN LED (LIGHT EMITTING DIODE) SIGNAL MODULE UNLESS OTHERWISE NOTED IN THE PLANS.

(3) CIRCULAR INDICATIONS SHALL MEET “ITE VTCSH-LED CIRCULAR SIGNAL SUPPLEMENT” FOR EXPANDED/EXTENDED VIEW. ARROW INDICATIONS SHALL MEET “ITE VTCSH-3 LED ARROW SPECIFICATION” FOR EXPLANDED/EXTENDED VIEW. PEDESTRIAN INDICATIONS SHALL MEET “ITE PTCSI PART 2”

(4) INCANDESCENT OR SCREW-IN MODULLES ARE NOT ACCEPTABLE.

(5) COMPATIBILITY WITH CONFLICT MONITORS AND LOAD SWITCHES SHALL BE TESTED AND CONFIRMED.

(6) MANUFACTURER SHALL PROVIDE A MINIMUM FIVE-YEAR WARRANTY FOR OPERATION OF THE UNIT.

(13) ALL PEDESTRIAN TRAFFIC CONTROL INDICATIONS, WHERE CALLED FOR, SHALL CONSIST OF LED MODULES DISPLAYING “WALKING PERSON” AND “HAND SYMBOLS,” ALONG WITH A PEDESTRIAN INTERVAL COUNTDOWN DISPLAY, WITHIN THE SAME FACE UNLESS OTHERWISE NOTED IN THE PLANS.

MULTIMODAL

(1) DURING CONSTRUCTION, IF THE CONSTRUCTION SUPERVISOR IDENTIFIES CURB RAMP LOCATIONS WITHIN THE PROJECT LIMITS WHERE THE TDOT ROADWAY STANDARDS CANNOT BE USED DUE TO SITE LIMITATIONS, A SKETCH OR PICTURE, SHOWING EXISTING CONDITIONS AS WELL AS PROPOSED MODIFICATIONS SHOULD BE SUBMITTED TO THE REGIONAL PROJECT DEVELOPMENT OFFICE THREE WEEKS PRIOR TO THE BEGINNING OF CURB RAMP CONSTRUCTION. THE OFFICE WILL REVIEW AND EVALUATE THE LOCATIONS TO DEVELOP PROPER CURB RAMP DESIGN THAT WILL MEET REGULATIONS.

SEALED BY

BRANDON S. BAXTER
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 111639
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11.26.24

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	HSIP-4965(10)	2D

ENVIRONMENTAL NOTES

ENVIRONMENTAL GENERAL NOTES

NATURAL RESOURCES

(1) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT NATURAL RESOURCES AND WATER QUALITY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG NATURAL RESOURCES IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS, WETLANDS OR OTHER NATURAL FEATURES IN ACCORDANCE WITH TDOT STANDARDS. EPSC MEASURES SHALL BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.

(2) NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.

(3) INSTREAM EPSC DEVICES REQUIRE THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN WATER QUALITY PERMITS.

(4) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, IS NOT ALLOWED.

(5) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING, NOT TO EXCEED THE WIDTH SPECIFIED IN THE STANDARD DRAWING.

(6) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CULVERT CROSSINGS SHALL BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES SHALL BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK SHALL BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS SHALL BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO PREEXISTING ELEVATIONS. ALL TEMPORARY CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (E.G. BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.

(7) HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED TEMPORARY IMPACTS SHALL BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION UNLESS SPECIFICALLY ADDRESSED IN THE CONSTRUCTION PLANS. ANY MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT SHALL BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED. ALL AFFECTED AREAS SHOULD BE RETURNED TO PRE-EXISTING CONDITIONS.

(8) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.

(9) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS PRIOR TO ANY CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR OR TDOT INSPECTOR IS UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE, THE INSPECTOR SHALL CONTACT THE TDOT REGION ENVIRONMENTAL TECH GROUP IMMEDIATELY.

SPECIES

(10) NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA.

(11) SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT, THE CONTRACTOR SHALL CONTACT THE REGIONAL ECOLOGY OFFICE TO DETERMINE IF SEASONAL RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).

(12) IF THE REMOVAL OF ANY TREES WITH A DIAMETER AT BREAST HEIGHT (DBH) GREATER THAN 3 INCHES IS DEEMED NECESSARY THE TDOT SUPERVISOR SHALL CONTACT THE TDOT ENVIRONMENTAL DIVISION, ECOLOGY SECTION IMMEDIATELY.

PERMITS, PLANS & RECORDS

(13) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO ARCHAEOLOGY, ECOLOGY, HISTORICAL, HAZARDOUS MATERIALS, AIR AND NOISE, TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING ANY MATERIAL AND STAGING AREAS AND THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS TO BE USED. ANY SUCH PERMITS SHALL BE SUPPLIED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO THE USE OF THE PERMITTED AREA(S).

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

(15) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE TDOT PERMIT SECTION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(16) THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATE. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

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

SUPPORT ACTIVITIES

(18) MATERIALS AND STAGING AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY ENVIRONMENTAL PERMITS, OBTAINED SOLELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATES. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

STREAMS, WETLANDS & BUFFER ZONES

(19) 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.

ENVIRONMENTAL SPECIAL NOTES

ENVIRONMENTAL

(1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

ECOLOGY

(2) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR A DESIGNATED CONSULTANT WILL NEED TO BE ONSITE FOR WORK BEING DONE WHICH COULD AFFECT WATERS OF THE STATE/U.S. OR SPECIES.

SCOPE OF WORK

(3) INSTALLATION OF A PEDESTRIAN SIGNAL, CURB AND GUTTER, STORM SEWER, SIDEWALK, AND CURB RAMPS.

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ENVIRONMENTAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	2E
PS&E	2025	HSIP-4965(10)	2E

SIDE DRAIN TABULATION

STATION	LOCATION		DESCRIPTION	SURFACE WIDTH FT.	SKEW	RCP CLASS III OR CMP 16 GA OR PVC OR SRTRP OR HDPE OR PP (L.F.) FILL HEIGHT ≤ 10 FT.						RCP CLASS III OR CMP 14 GA OR PVC OR SRTRP OR HDPE OR PP (L.F.) FILL HEIGHT > 10 FT. AND ≤ 16 FT						END TREATMENT				REMARKS
																		INLET		OUTLET		
	LT.	RT.				18"	24"	30"	36"	42"	48"	18"	24"	30"	36"	42"	48"	TYPE	DRAWING NO.	TYPE	DRAWING NO.	
58+97.00		X	24" PIPE CULVERT (CMP)	10	90°		24															
57+88.00		X	24" ROUND EQUIV. CMP ARCH	34	60°		54															
TOTALS						0	78	0	0	0	0	0	0	0	0	0	0	Pipe Tabulation For Private Drives, Business & Field Entrances				

STORM DRAINAGE PIPES

SHEET NO.	FROM		TO		% GRADE	REINFORCED CONC. PIPE - CLASS III SIZE & LENGTH (L.F.)					CMP 607-37.02	CMP 607-37.03	RIP-RAP 709-05.06 (TON)
	CODE	INLET ELEV.	CODE	OUTLET ELEV.		18"	24"	30"	36"	48"	18"	24"	
4B	1	552.50	2	551.00	1.03	146							
6B		601.96	4	600.55	7.10	20							34
6B	5	589.70	7	589.43	4.91	6							
6B	6	589.70	7	589.43	4.91	6							
6B	7	589.26	A1	589.01	1.00						26		
6B		581.74	8	581.50	1.00							24	
TOTALS						178	0	0	0	0	26	24	34

STORM DRAINAGE ENDWALLS

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	STRUCTURE TYPE	STANDARD DRAWING	CLASS A CONC. 611-07.01 (C.Y.)	REINF. STEEL 611-07.02 (LB.)	STRUC. STEEL 611-07.03 (LB.)
6B	RT	62+60.00	30.7	4	EW		0.78	22	
6B	RT	61+67.15	27	5	EW		0.72	21	
6B	RT	61+60.54	33.23	6	EW		0.72	21	
6B	RT	59+60.00	29	8	EW		0.78	22	
TOTALS							3	86	0

CATCH BASINS

SHEET NO.	LOCATION	STATION	OFFSET (FT.)	DRAINAGE CODE	GRATE/TOP ELEV.	STRUCTURE TYPE	INSIDE DIMENSION	DEPTH (FT.)	STANDARD DRAWING	PAY ITEMS					
										TYPE 12 611-12.01 0' - 4'	TYPE 12 611-12.02 4' - 8'	TYPE 12 611-12.03 8' - 12'	TYPE 14 611-14.02 4' - 8'	TYPE 14 611-14.03 8' - 12'	JB-2 611-02.11 0' - 4'
4B	LEFT	52+17.00	13.00	3	555.96	DOUBLE INLET	3'X8'	5'	D-CB-14P				1		
4B	LEFT	54+00.00	13.00	1	556.50	SINGLE INLET	3'X4'	4'	D-CB-12P		1				
6B	RIGHT	61+60.00	27..24	7	592.55	JB	4'X4'	3.29	D-JBS-2						1
TOTALS										0	1	0	1	0	1

CURB RAMPS TABULATION

ROADWAY		LOCATION							STANDARD DRAWING NO.	CONCRETE (NEW) ITEM NO. 701-02.03 S.F.	REMARKS
MAINLINE	INTERSECTING	STATION or LOG MILE (L.M.)	Left	Right	QUADRANT N.	QUADRANT S.	QUADRANT E.	QUADRANT W.			
HAMILTON CHURCH ROAD	OWENDALE DRIVE		X		X			X	MM-CR-8	97.0	PERPENDICULAR CURB RAMP IN CURVE WITH TRUNCATED DOMES
HAMILTON CHURCH ROAD	OWENDALE DRIVE		X		X		X		MM-CR-8	82.0	PERPENDICULAR CURB RAMP IN CURVE WITH TRUNCATED DOMES
HAMILTON CHURCH ROAD	OWENDALE DRIVE			X		X	X		MM-CR-9	85.0	PERPENDICULAR CURB RAMP IN TANGENT WITH TRUNCATED DOMES
									TOTAL	264	

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COMMERCE
No. 111699
STATE OF TENNESSEE

11-26-24

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	HSIP-4965(10)	2E1

ESTIMATED GRADING QUANTITIES

DESCRIPTION	UNADJUSTED VOLUMES (CY)		ADJUSTED VOLUMES (CY)
	EXC.	EMB.	EXC.
MAINLINE	95	614	67
SIDE ROADS	0	0	
PVT. DRIVES, BUSINESS AND FIELD ENTRANCES	3	66	3
INDEPENDENT DITCHES	0	0	
TEMPORARY CONSTRUCTION EXITS	0	0	
OTHER (BRIDGE EXCAVATION, PAVEMENT, ETC...)	0	0	
TOPSOIL (EMB.)	190		
TOPSOIL (EXC.)	137		
TOPSOIL TOTALS (SEE TOPSOIL TABLE)			

ROCK (C.Y.)	
EXC.	EMB.
0	0

TOTALS (C.Y.)				
EXC. (UNCL.)	EMB. (UNCL.)	EXC (COMMON)	EXC. (AVAIL.)	EXC. (ADJ.)
425	680	425	98	69

BALANCE SUMMARY

SHRINK = 30 % SWELL = 100 %

EMB.		EXC.
680	VS.	-69
AVAILABLE	=	611
BORROW MATERIAL	=	795

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DEPARTMENT OF COMMERCE
11.26.24

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED QUANTITIES

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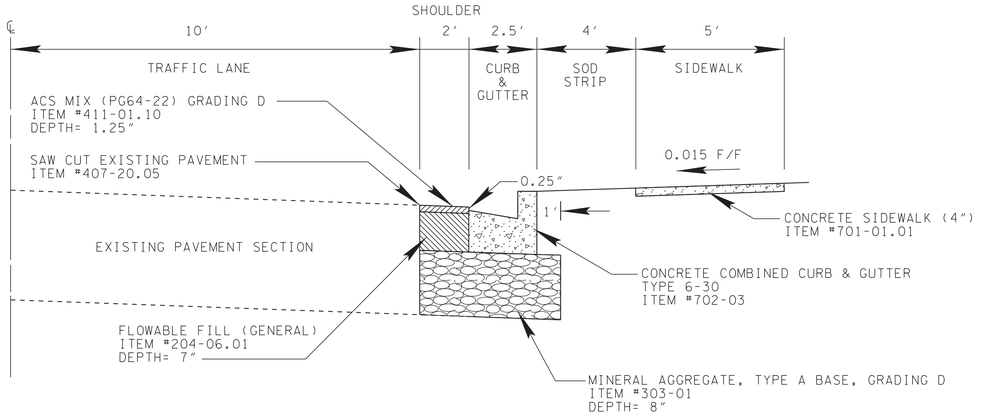
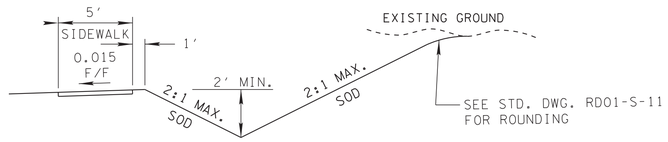
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	2F
PS&E	2025	HSIP-4965(10)	2F



DETAIL OF WIDENING

NTS



SPECIAL DITCH DETAIL

STA. 58+11.89 TO STA. 58+82.50 RT.
STA. 59+08.00 TO STA. 59+58.00 RT.
STA. 61+67.00 TO STA. 62+60.00 RT.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DETAIL SHEETS

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RIGHT-OF-WAY

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

(2) 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.

(3) 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.

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

(5) 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.

(6) 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.

UTILITY

(1) THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE PLANS ARE APPROXIMATE ONLY. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS, AND/OR MAPS PREPARED BY OTHERS. THEREFORE, RELIANCE UPON THE TYPE, SIZE, AND LOCATION OF UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED VERIFICATION OF EXISTENCE, LOCATION, AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE UTILITY COMPANY. IN TENNESSEE, IT IS A REQUIREMENT, PER "THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT", THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN THREE (3) OR NOT MORE THAN TEN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR INTENT TO EXCAVATE AND ALSO TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. 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 ITS 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 NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC AT 1-800-351-1111 WILL BE REQUIRED.

UTILITY OWNERS

CABLE:

COMCAST (XFINITY)
360 Mainstream DR
Nashville, TN 37228
CONTACT: Gary McKinney
OFFICE PHONE: 615 244 7462 Ext. 1115621
CELL PHONE: 615 456 6397
Email: gary_mckinney@comcast.com

CONTACT: Derrick Cunningham
OFFICE PHONE: ___ ___ ____
CELL PHONE: 615 878 4237
Email: Derrick_Cunningham@comcast.com
NAS-NashvilleConstructionBetterment@comcast.com

ELECTRIC:

NASHVILLE ELECTRIC SERVICE
1214 Church ST. Room 363
Nashville, TN 37246
CONTACT: Jon Sipes
OFFICE PHONE: 615 747 3529
CELL PHONE: ___ ___ ____
Email: jsipes@nespower.com

CONTACT: Chad Lacy
OFFICE PHONE: 615 747 3452
CELL PHONE: ___ ___ ____
Email: clacy@nespower.com
utilityrelocations@nespower.com

TELEPHONE & FIBER:

A.T.&T.
116 South Cannon AVE
Murfreesboro, TN 37129
CONTACT: Kenneth Lee Kornegay
OFFICE PHONE: 615 848 2082
CELL PHONE: 615 631 7221
Email: kk4096@att.com

WATER:

METRO WATER & SEWER
1600 Second Ave. North
Nashville, TN 37208
CONTACT: Steve Nunley
OFFICE PHONE: 615 862 4534
CELL PHONE: 615 566 3846
Email: Steve.Nunley@nashville.gov

CONTACT: Mike Morris
OFFICE PHONE: 615 862 4570
CELL PHONE: 615 566 3355
Email: Mike.Morris@nashville.gov

GAS:

PIEDMONT NATURAL GAS
83 Century BLVD.
Nashville, TN 37214
CONTACT: Scott Hazzard
OFFICE PHONE: ___ ___ ____
CELL PHONE: 615 714 2389
Email: Scotty.Hazzard@duke-energy.com

CONTACT: Nate Miller
OFFICE PHONE: 615 872 2457
CELL PHONE: 615 598 4789
Email: nathaniel.miller2@duke-energy.com

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	3
PS&E	2025	HSIP-4965(10)	3

REV. 08/08/2023: UPDATED PROPERTY OWNERS NAMESFOR TRACTS 1,2, AND 7; UPDATED TAX MAP NUMBER FOR TRACT 1; UPDATED PARCEL NUMBERS FOR TRACT 1 AND TRACT 4; UPDATED TRACT 2 DEED DOCUMENT;UPDATED TRACT 4 SLOPE EASEMENT; UPDATED TRACT 1 CONSTRUCTION EASEMENT; UPDATED TRACT 2 CONTRUCTION EASEMENT.

REV. 08/28/2023: UPDATED TRACT 1 CONSTRUCTION EASEMENT.

REV. 08/26/2023: UPDATED SIGNAL POLE, SIGNAL HEAD, AND SPECIAL DITCH DESIGN; UPDATED TRACT 7 SLOPE EASEMENT AND CONSTRUCTION EASEMENT.

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		LEFT	RIGHT	TOTAL	LEFT	RIGHT	TOTAL	LEFT	RIGHT	PERMANENT	SLOPE	CONSTRUCTION	AIR RIGHTS
				BOOK	PAGE												
1	FOREST VIEW PARK HOMEOWNERS ASSOCIATION	150-09 B	39	20051201-144154		3.118		3.118				3.118		624 S.F.	301 S.F.	0.107	
2	RENT-IT HOLDINGS, LLC	150-09 A	3	20220302-0023899		0.290		0.290				0.290				365 S.F.	
3	SYLVIA BLAND	150-09 A	67	9929	394	0.250		0.250				0.250					
4	ST. PISHOY COPTIC ORTHODOX CHURCH	150	122	20131021-0109671			5.268	5.268					5.268		1253 S.F.	1845 S.F.	
5	HAMILTON GLEN HOMEOWNER ASSOCIATION, INC	150-13A	2, 4, 18	20020509-0057252			0.553	0.553					0.553				
6	TRACY RENEE BRANNON	150	130A	20010121-0008186			0.120	0.120					0.120				
7	AFFINITY DEVELOPMENTS, LLC	150	119	20210323-0037913			6.000	6.000					6.000		320 S.F.	666 S.F.	
8	HAMILTON CREEK APARTMENTS, L.P.	150	236	20031117-0167650		8.460		8.460				8.460		476 S.F.			
ACQUISITION TOTALS (ACRES)														1101 S.F.	1874 S.F.	0.173	

DISTURBED AREA

IN BETWEEN SLOPE LINES	0.456	(AC)
10 FOOT WIDE STRIP (OUT SIDE SLOPE LINES)	0.245	(AC)
TOTAL DISTURBED AREA[1]	0.702	(AC)
TOTAL PROJECT AREA	1.886	(AC)

[1] SWPPP IS NOT REQUIRED SINCE TOTAL DISTURBED AREA IS LESS THAN 1.0 ACRE.

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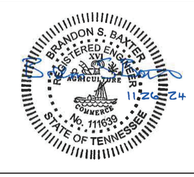

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY NOTES, UTILITY NOTES, UTILITY OWNERS, AND ACQUISITION TABLE

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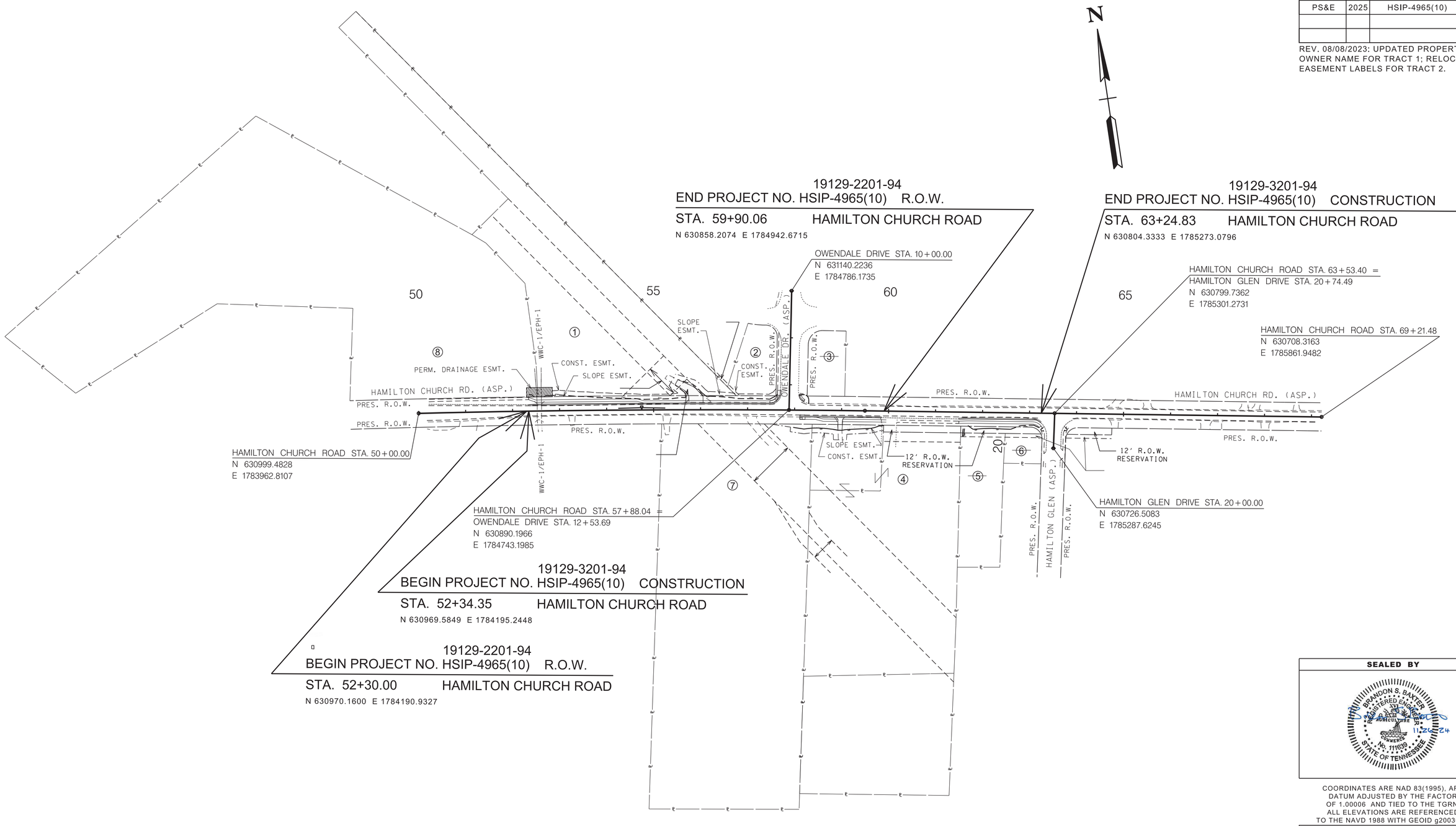
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	3A
PS&E	2025	HSIP-4965(10)	3A

REV. 08/08/2023: UPDATED PROPERTY OWNER NAME FOR TRACT 1; RELOCATED EASEMENT LABELS FOR TRACT 2.



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STATE OF TENNESSEE
11.26.2024

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID g2003u07.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPERTY MAP

SCALE: 1"=100'

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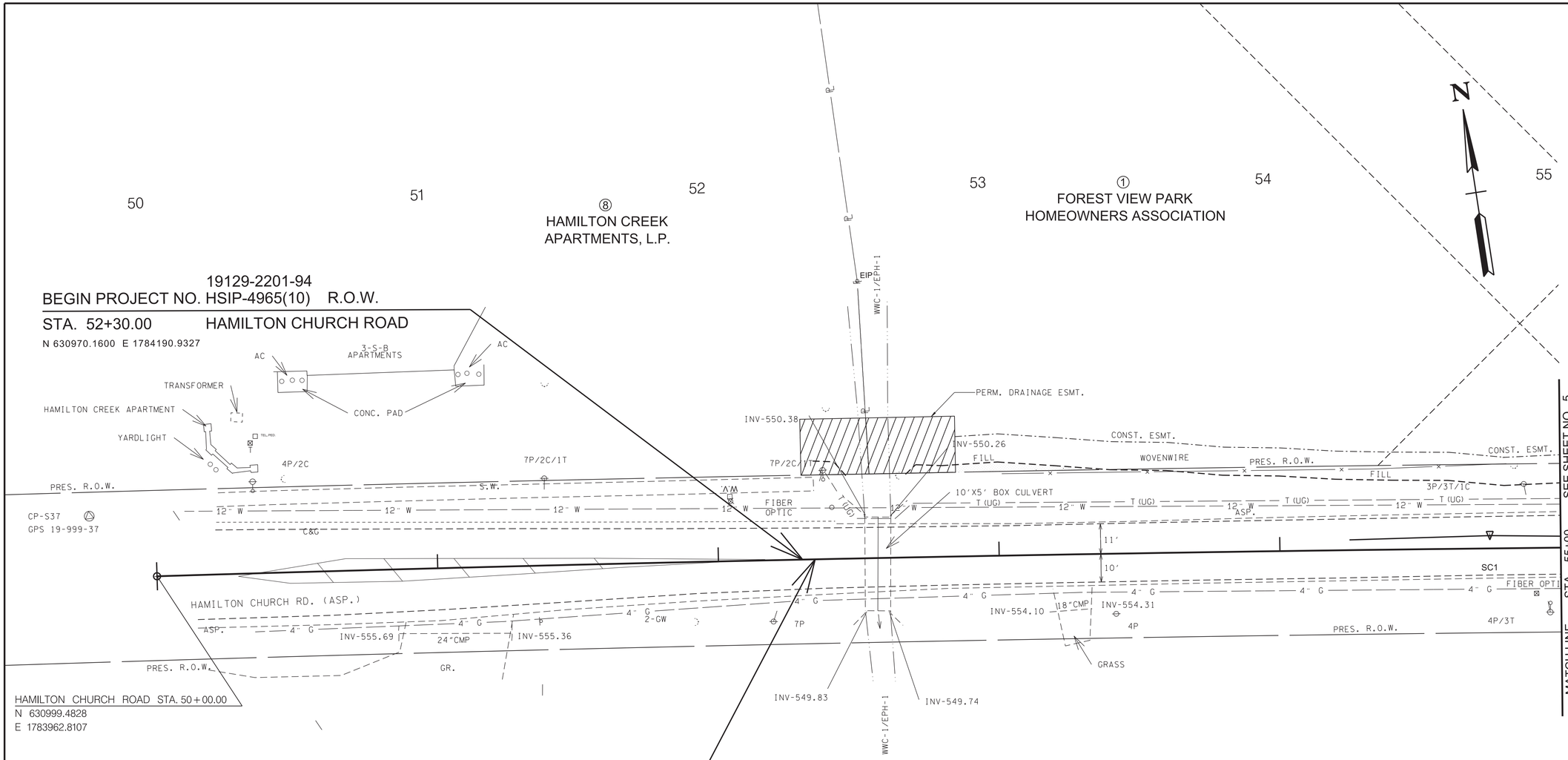
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	4
PS&E	2025	HSIP-4965(10)	4

REV. 08/08/2023: UPDATED PROPERTY OWNER NAME FOR TRACT 1.



HAMILTON CHURCH RD.
CURVE SC1
PI 54+74.86
N 630,941.1358
E 1,784,434.0740
~ 2° 12' 10" (RT)
D 0° 13' 55"
R 24,698.42
L 949.61
T 474.86
SE 0.000 FT/FT
DESIGN SPEED 00 MPH
TRANS. LENGTH 000

PERMANENT DRAINAGE EASEMENT

SLOPE EASEMENT

CONTROL POINTS							
POINT	NORTHING	EASTING	ELEVATION	STSTION	OFFSET	FEATURE	DESCRIPTION
S37	631024.3110	1783942.2200	561.7210	Off Chain	Off Chain	XCP	GPS 19-999-37

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 52+00 TO STA. 55+00
SCALE: 1"= 20'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	4A
PS&E	2025	HSIP-4965(10)	4A

REV. 08/08/2023: UPDATED PROPERTY OWNER NAME FOR TRACT 1.

50 51 52 53 54 55

⑧ HAMILTON CREEK APARTMENTS, L.P.

① FOREST VIEW PARK HOMEOWNERS ASSOCIATION

N 0° 40' 0" E 174.39'

℄

EIP

N 5° 18' 31" E 68.82'

19129-2201-94

BEGIN PROJECT NO. HSIP-4965(10) R.O.W.

STA. 52+30.00 HAMILTON CHURCH ROAD

N 630970.1600 E 1784190.9327

52+53.42
49.98'

N 5° 18' 31" E
20.00'

S 82° 20' 41" E
23.47'

S 82° 20' 41" E
31.64'

52+30.00
50.00'

52+85.00
50.00'

S 7° 35' 29" W
19.94'

S 7° 43' 08" W
20.00'

52+85.00
30.00'

52+30.00
30.06'

FILL

CONST. ESMT.

CONST. ESMT.

70' NES ESMT.

PRES. R.O.W.

R=24728.42'
L=400.38'

376.11'

R=24728.42'
L=24.27'

R=24728.42'
L=30.80'

52+54.24
30.00'

SLOPE EASEMENT

PERM. DRAINAGE ESMT.

R=24728.42'
L=421.94'

391.14'

CP-S37
GPS 19-999-37

HAMILTON CHURCH RD. (ASP.)

PRES. R.O.W.

R=24728.42'
L=661.97'

PRES. R.O.W.

HAMILTON CHURCH ROAD STA. 50+00.00
N 630999.4828
E 1783962.8107

SEE SHEET NO. 5A

STA. 55+00

MATCH LINE

19129-3201-94

BEGIN PROJECT NO. HSIP-4965(10) CONSTRUCTION

STA. 52+34.35 HAMILTON CHURCH ROAD

N 630969.5849 E 1784195.2448

PERMANENT DRAINAGE EASEMENT

SLOPE EASEMENT

CONTROL POINTS							
POINT	NORTHING	EASTING	ELEVATION	STSTION	OFFSET	FEATURE	DESCRIPTION
S37	631024.3110	1783942.2200	561.7210	Off Chain	Off Chain	XCP	GPS 19-999-37

SEALED BY

BRANDON S. BAXTER
REGISTERED ENGINEER
No. 111639
STATE OF TENNESSEE
11-26-24

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID g2003u07.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 52+00 TO STA. 55+00
SCALE: 1"= 20'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	4B
PS&E	2025	HSIP-4965(10)	4B

50 51 52 53 54 55

N

19129-2201-94

BEGIN PROJECT NO. HSIP-4965(10) R.O.W.

STA. 52+30.00 HAMILTON CHURCH ROAD

N 630970.1600 E 1784190.9327

WWC-1/EPH-1

20' X 18' CLASS B RIP-RAP

BEGIN SIDEWALK SHIFT
STA. 52+34.35
OFF -24.36'

BEGIN C&G 52+34.35 12.01'

END SIDEWALK SHIFT
STA. 52+49.88
OFF -18.50'

TIE TO EX. SIDEWALK

BEGIN PEDESTRIAN SAFETY RAIL
STA. 52+20.00
OFF 31.17'

12' EXTENSION OF 10' X 5' R.C. BOX CULVERT

SAW CUT AND TIE TO EX. CURB & GUTTER

3 #14 2 CON

END PEDESTRIAN SAFETY RAIL
STA. 52+93.00
OFF 25.50'

PROP. 145' OF 18" RCP

1 #12

END SIDEWALK SHIFT
STA. 54+79.59
OFF -14.50'

BEGIN SIDEWALK SHIFT
STA. 54+64.60
OFF -18.50'

PROP. 5' SIDEWALK

PROP. 4' GRASS STRIP

18" SI 18" SI 18" SI

TYPE 6-30 CURB & GUTTER

2'

10'

SAW CUT ASPHALT

6" SSWL

6" DSYL

10'

6" SSWL

HAMILTON CHURCH RD. (ASP.)

18" PIPE INTO SIDE OF BOX CULVERT
#14P CATCH BASIN INTO TOP OF BOX CULVERT

WWC-1/EPH-1

MATCH LINE STA. 55+00 SEE SHEET NO. 5B

HAMILTON CHURCH ROAD STA. 50+00.00
N 630999.4828
E 1783962.8107

19129-3201-94

BEGIN PROJECT NO. HSIP-4965(10) CONSTRUCTION

STA. 52+34.35 HAMILTON CHURCH ROAD

N 630969.5849 E 1784195.2448

1 #12 GT. EL. 556.50
OUT.EL. 552.50

2 CON INV. 551.00

3 #14 GT. EL. 555.96

PERMANENT DRAINAGE EASEMENT

SLOPE EASEMENT

SEALED BY

BRANDON S. BAXTER
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AGRICULTURE
No. 111639
STATE OF TENNESSEE

11/26/24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 52+00 TO STA. 55+00
SCALE: 1"= 20'

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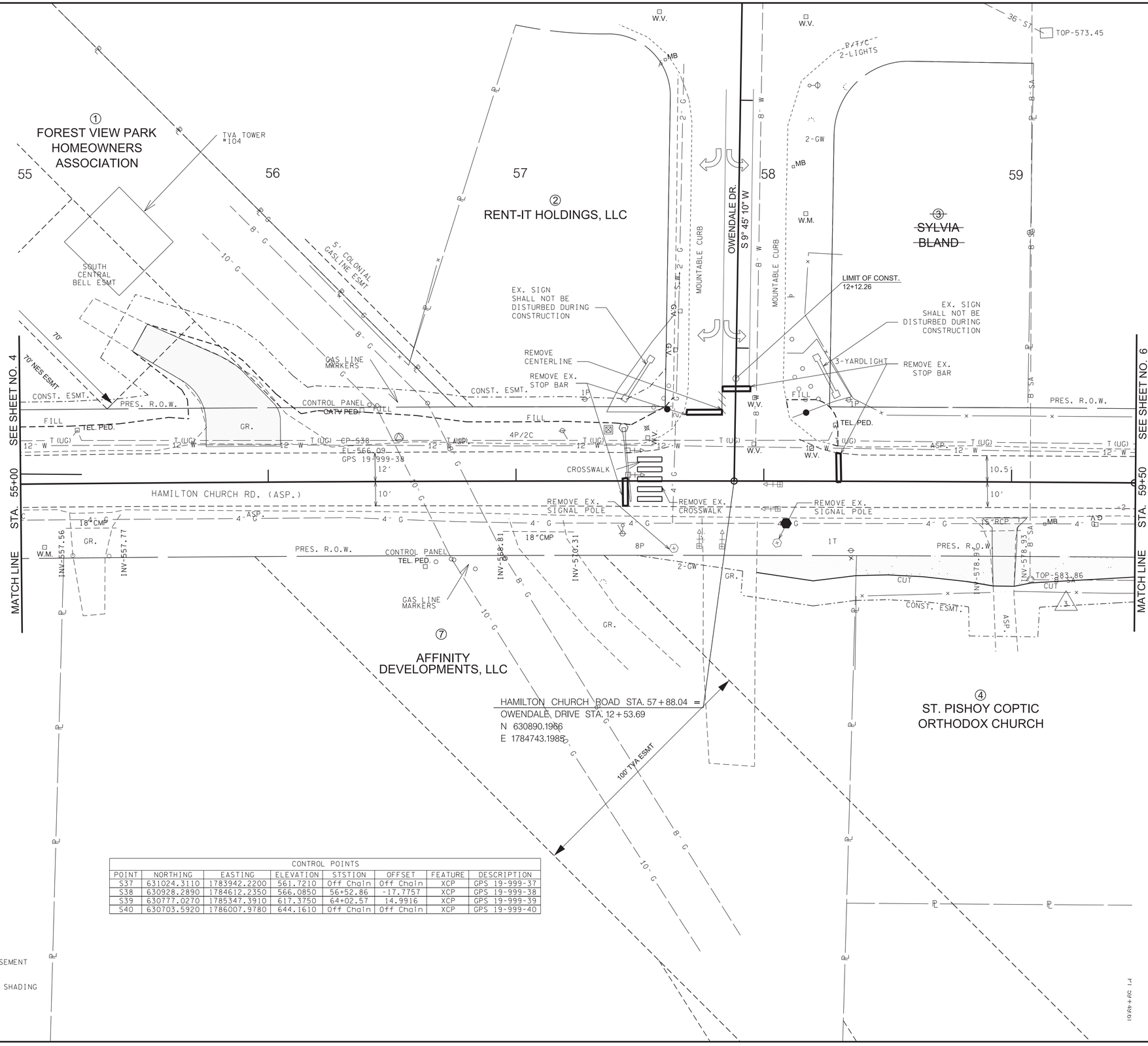
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	5
PS&E	2025	HSIP-4965(10)	5

REV. 08/08/2023: UPDATED PROPERTY OWNER NAMES FOR TRACTS 1,2, AND 7; UPDATED CONSTRUCTION EASEMENT FOR TRACT 2; INCLUDED NOTE TO NOT DISTURB EXISTING SIGN DURING CONSTRUCTION.

REV. 02/12/2024: UPDATED SIGNAL LAYOUT.

REV. 08/26/2024: UPDATED SIGNAL POLE, SIGNAL HEAD, AND SPECIAL DITCH DESIGN; UPDATED TRACT 7 SLOPE EASEMENT AND CONSTRUCTION EASEMENT.



CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION	STSTION	OFFSET	FEATURE	DESCRIPTION
S37	631024.3110	1783942.2200	561.7210	Off Chain	Off Chain	XCP	GPS 19-999-37
S38	630928.2890	1784612.2350	566.0850	56+52.86	-17.7757	XCP	GPS 19-999-38
S39	630777.0270	1785347.3910	617.3750	64+02.57	14.9916	XCP	GPS 19-999-39
S40	630703.5920	1786007.9780	644.1610	Off Chain	Off Chain	XCP	GPS 19-999-40

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BRANDON S. BAXTER
REGISTERED ENGINEER
No. 117639
STATE OF TENNESSEE
11-26-24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 55+00 TO STA. 59+50
SCALE: 1"= 20'

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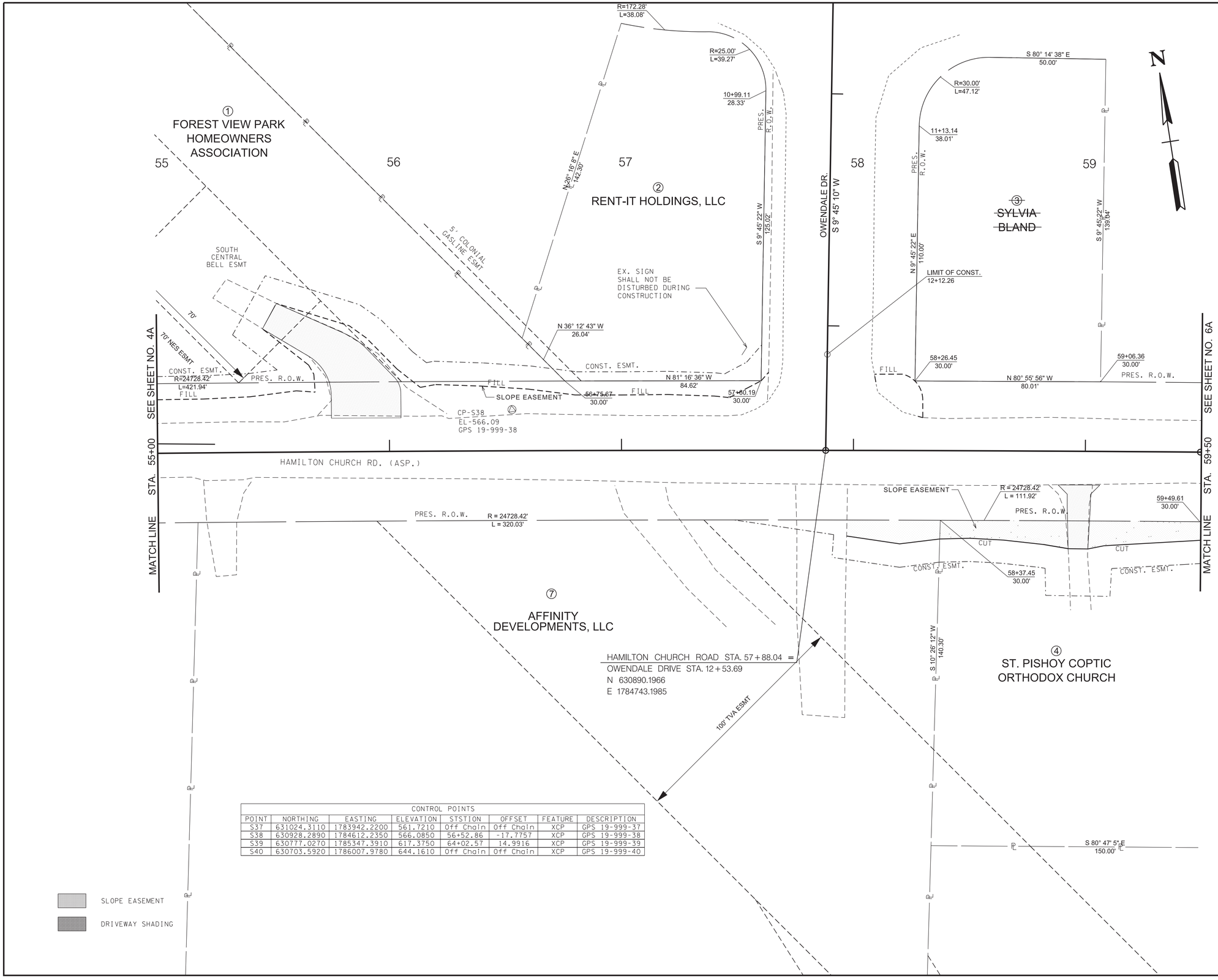
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	5A
PS&E	2025	HSIP-4965(10)	5A

REV. 08/08/2023: UPDATED PROPERTY OWNER NAMES FOR TRACTS 1,2, AND 7; UPDATED NORTHING AND EASTING FOR TRACT 4 PROPERTY LINE; ADDED PRESENT RADIUS AND ARC LENGTH CALLOUTS TO TRACT 4 AND TRACT 7; UPDATED CONSTRUCTION EASEMENT FOR TRACT 2; INCLUDED NOTE TO NOT DISTURB EXISTING SIGN DURING CONSTRUCTION.

REV. 08/26/2024: UPDATED SIGNAL POLE, SIGNALHEAD, AND SPECIAL DITCH DESIGN; UPDATED TRACT 7 SLOPE EASEMENT AND CONSTRUCTION EASEMENT.



CONTROL POINTS							
POINT	NORTHING	EASTING	ELEVATION	STSTION	OFFSET	FEATURE	DESCRIPTION
S37	631024.3110	1783942.2200	561.7210	Off Chain	Off Chain	XCP	GPS 19-999-37
S38	630928.2890	1784612.2350	566.0850	56+52.86	-17.7757	XCP	GPS 19-999-38
S39	630777.0270	1785347.3910	617.3750	64+02.57	14.9916	XCP	GPS 19-999-39
S40	630703.5920	1786007.9780	644.1610	Off Chain	Off Chain	XCP	GPS 19-999-40

SLOPE EASEMENT

DRIVEWAY SHADING

SEALED BY

BRANDON S. BAXTER
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No. 111699
STATE OF TENNESSEE
11-26-24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 55+00 TO STA. 59+50
SCALE: 1"= 20'

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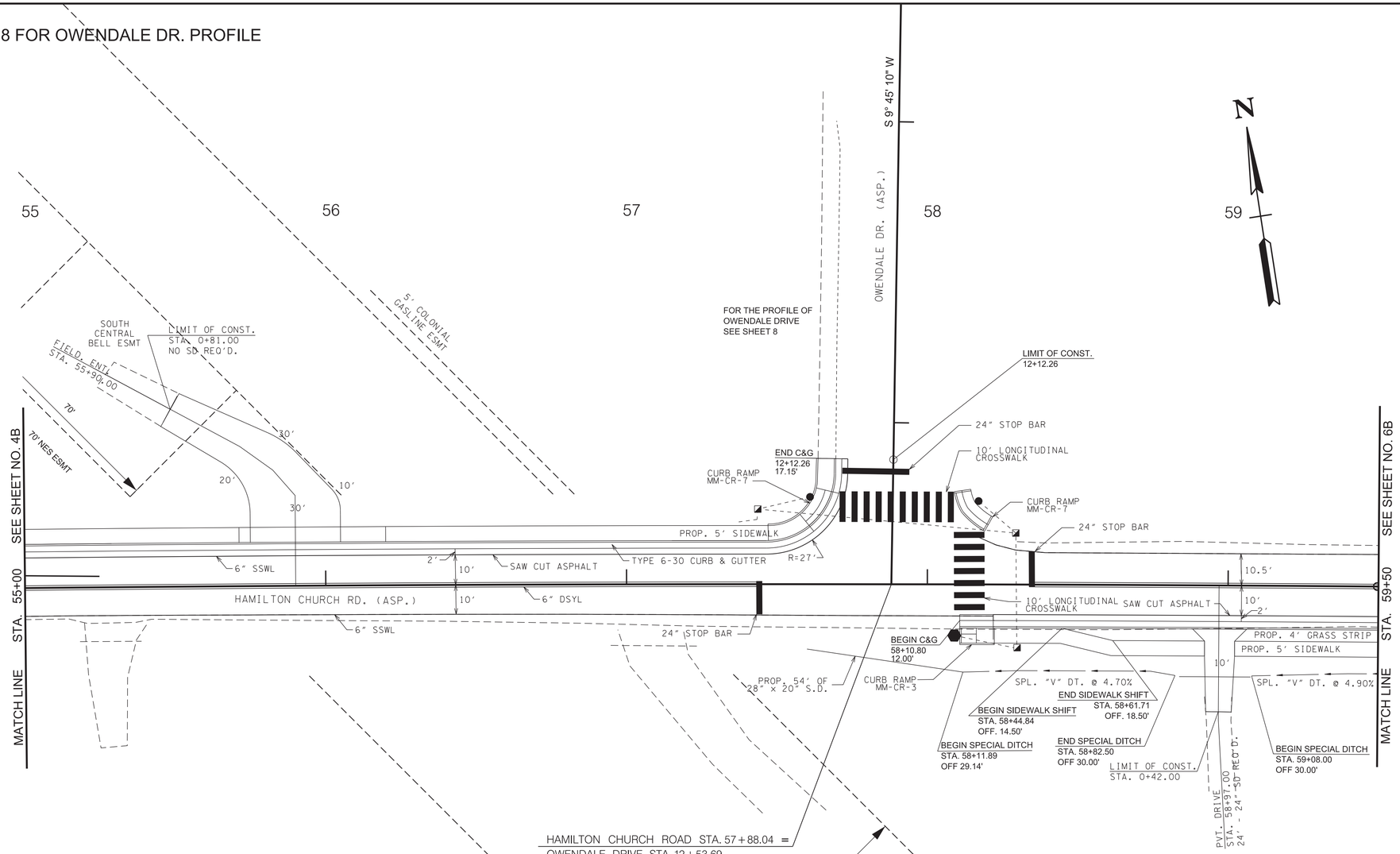
NOTE: SEE SHEET 8 FOR OWENDALE DR. PROFILE

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	5B
PS&E	2025	HSIP-4965(10)	5B

REV. 08/08/2023: UPDATED PROPOSED SIDEWALK AND CURB RAMP ON NORTHEAST QUADRANT OF INTERSECTION.

REV. 02/15/2024: UPDATED SIGNAL LAYOUT.

REV. 02/15/2024: UPDATED SIGNAL POLE, SIGNAL HEAD, AND SPECIAL DITCH DESIGN; UPDATED TRACT 7 SLOPE EASEMENT AND CONSTRUCTION EASEMENT.



SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 55+00 TO STA. 59+50
SCALE: 1"= 20'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	6
PS&E	2025	HSIP-4965(10)	6

19129-2201-94
END PROJECT NO. HSIP-4965(10) R.O.W.
STA. 59+90.06 HAMILTON CHURCH ROAD
N 630858.2074 E 1784942.6715

19129-3201-94
END PROJECT NO. HSIP-4965(10) CONSTRUCTION
STA. 63+24.83 HAMILTON CHURCH ROAD
N 630804.3333 E 1785273.0796

HAMILTON CHURCH ROAD STA. 63+53.40 =
HAMILTON GLEN DRIVE STA. 20+00.00
N 630799.7362
E 1785301.2731

HAMILTON GLEN DRIVE STA. 20+74.49
N 630726.5083
E 1785287.6245

SEE SHEET NO. 5

MATCH LINE STA. 59+50

HAMILTON CHURCH RD. (ASP.)

S 80° 44' 21" E

HAMILTON GLEN DR. N 10° 33' 29" E

HAMILTON GLEN (ASP.)

PRES. R.O.W.

TEL. PED.

2T

8P/3C/1T

WOOD

3P/3C/1T

3-GW

6P/3C/2T

ASP

W.M.

W.V.

12" W

REMOVE EX. ENDWALL

FIBER OPTIC

C&G

4" G

24" ST

18" ST

S.W.

INV-581.74

INV-590.11

INV-601.96

CP-S39
EL-617.38
GPS 19 999 39

18"RCP

INV-615.57

15"CMP

GR.

INV-420.27

HAND RAIL

REMOVE EXISTING 18" CMP AND REPLACE

HANDRAIL

FILL

CUT

8" SA

4P/2T/1C
2-LIGHTS

CONST. ESMT.

TOP-589.49

TOP-602.19

12' R.O.W. RESERVATION

TOP-596.18

BLOCK RET. WALL

EIP

INV-591.89

SIGN

CROSSTIMBERS

20' P.U.D.E.

8' P.U.D.E.

18"CMP
INV-593.38

2-S-B
RES.

1-S-B
RES.

12' R.O.W
RESERVATION

MOUNTABLE CURB

MB

2P/2T/2C

A1 TOP-591.35
INV-589.01
INV-588.46
BOT-588.46

A2 TOP-585.41
BOT-583.80

A3 INV-582.67
INV-582.44
INV-582.43
BOT-582.43

A4 INV-585.77
BOT-585.77

1 INV-594.69
INV-594.59
INV-594.49
BOT-594.49

2 INV-579.39
INV-579.29
BOT-579.29

3 INV-575.66
INV-574.26
BOT-574.26

④ ST. PISHOY COPTIC ORTHODOX CHURCH

⑤ ~~HAMILTON GLEN HOMEOWNER ASSOCIATION, INC.~~

⑥ ~~TRACY RENEE BRANNON~~

SLOPE EASEMENT

60 61 62 63 64 20

SEALED BY

BRANDON S. BAXTER
REGISTERED ENGINEER
No. 111639
STATE OF TENNESSEE
11-26-24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 59+50 TO STA. 65+00
SCALE: 1"= 20'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	6A
PS&E	2025	HSIP-4965(10)	6A

19129-2201-94
END PROJECT NO. HSIP-4965(10) R.O.W.
STA. 59+90.06 HAMILTON CHURCH ROAD
N 630858.2074 E 1784942.6715

19129-3201-94
END PROJECT NO. HSIP-4965(10) CONSTRUCTION
STA. 63+24.83 HAMILTON CHURCH ROAD
N 630804.3333 E 1785273.0796

HAMILTON CHURCH ROAD STA. 63+53.40 =
HAMILTON GLEN DRIVE STA. 20+00.00
N 630799.7362
E 1785301.2731

HAMILTON GLEN DRIVE STA. 20+74.49
N 630726.5083
E 1785287.6245

SEE SHEET NO. 5A

MATCH LINE STA. 59+50

PRES. R.O.W.

HAMILTON CHURCH RD. (ASP.)

S 80° 44' 21" E

N 80° 44' 29" W

SLOPE EASEMENT

S 80° 19' 10" E 40.45'

S 80° 50' 34" E 163.99'

61+54.04 30.00'

S 80° 41' 54" E 148.08'

63+02.12 30.11'

CUT

FILL

12' R.O.W. RESERVATION

CONST. ESMT.

59+90.06 30.30'

N 11° 24' 26" E 14.38'

S 9° 53' 58" W 14.37'

EIP

20' P.U.D.E.

8' P.U.D.E.

R=25.00' L=28.24'

20+45.01 27.62'

R=25.00' L=11.54'

20+56.15 25.00'

N 10° 33' 29" E

CP-S39
GPS 19-999-39

R=25.00' L=28.29'

64+02.77 30.04'

64+75.51 30.00'

S 80° 46' 27" E 72.74'

20+43.76 27.71'

R=25.00' L=11.76'

20+55.22 25.62'

S 10° 30' 52" W 14.38'

12' R.O.W. RESERVATION

8' P.U.D.E.

④
ST. PISHOY COPTIC
ORTHODOX CHURCH

N 11° 24' 26" E 125.83'

⑤
~~HAMILTON GLEN~~
~~HOMEOWNER ASSOCIATION, INC.~~

⑥
~~TRACY RENEE~~
~~BRANNON~~

S 9° 53' 58" W 409.97'

S 10° 31' 59" W

N 10° 39' 35" E

HAMILTON GLEN (ASP.)

PRES. R.O.W.

PRES. R.O.W.

SLOPE EASEMENT

SEALED BY

BRANDON S. BAXTER
REGISTERED ENGINEER
No. 111639
STATE OF TENNESSEE
DEPARTMENT OF AGRICULTURE
11-26-24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY DETAILS

STA. 59+50 TO STA. 65+00
SCALE: 1"= 20'

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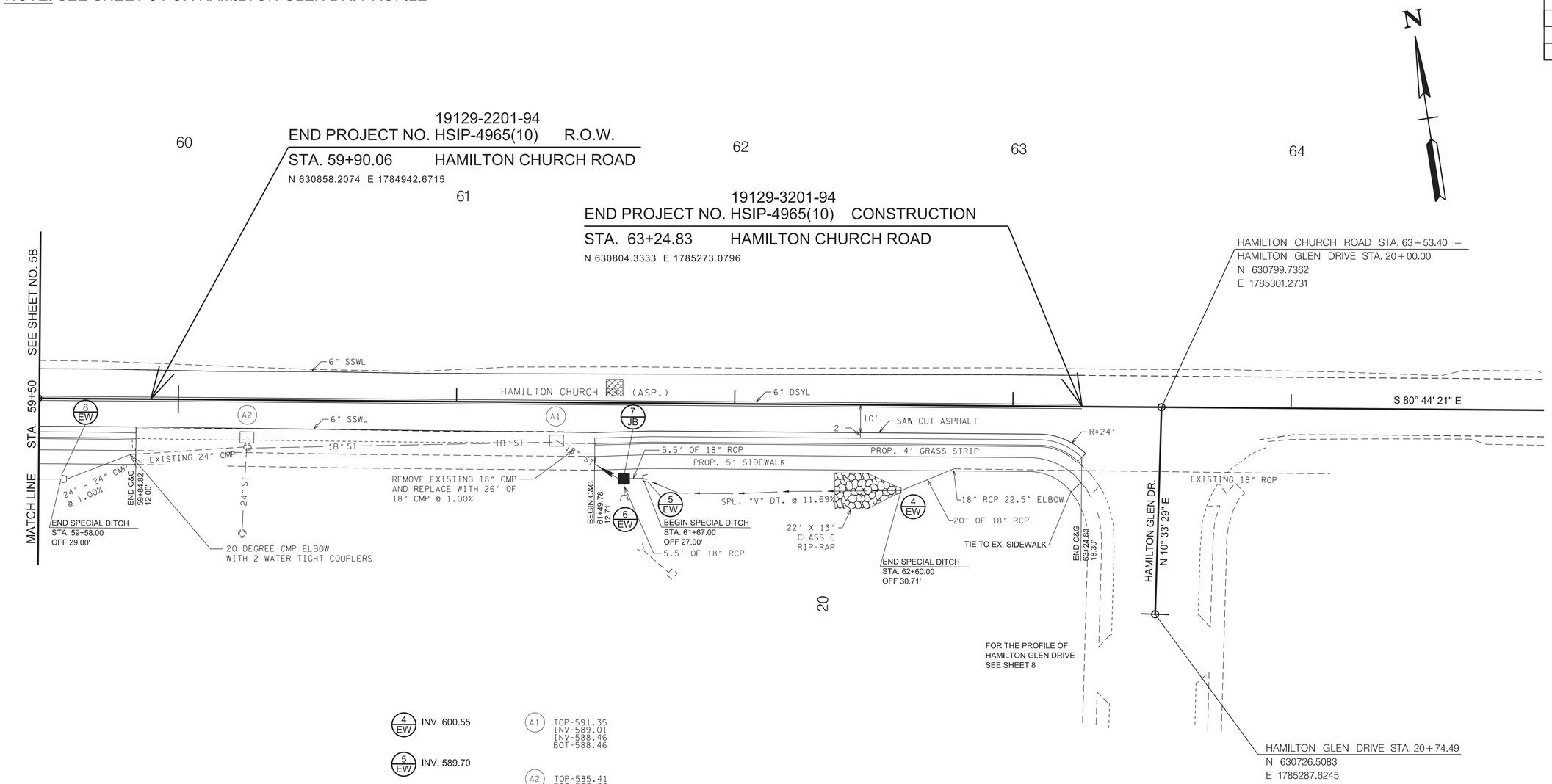
NOTE: SEE SHEET 8 FOR HAMILTON GLEN DR. PROFILE

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	6B
PS&E	2025	HSIP-4965(10)	6B



4 EW INV. 600.55

5 EW INV. 589.70

6 EW INV. 589.70

7 JB TOP EL. 592.55
IN. EL. 589.43
IN. EL. 589.43
OUT.EL. 589.26

8 EW INV. 581.50

A1 TOP-591.35
INV-589.01
INV-588.46
BOT-588.46

A2 TOP-585.41
BOT-583.80

SLOPE EASEMENT

SEALED BY

BRANDON S. BAXTER
REGISTERED ENGINEER
No. 111639
STATE OF TENNESSEE
11-26-24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED LAYOUT

STA. 59+50 TO STA. 65+00
SCALE: 1"= 20'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	7
PS&E	2025	HSIP-4965(10)	7

REV. 08/26/2024: UPDATED SIGNAL POLE, SIGNAL HEAD, AND SPECIAL DITCH DESIGN; UPDATED TRACT 7 SLOPE EASEMENT AND CONSTRUCTION EASEMENT.

EARTHWORK QUANTITIES

EXC. (UNCL.) COMMON = 425 C.Y.
425 C.Y.

INCLUDES 137 C.Y. TOPSOIL FROM EXC. AREAS
INCLUDES 190 C.Y. TOPSOIL FROM EMB. AREAS
INCLUDES 5 C.Y. EPSC
INCLUDES 3 C.Y. FROM PRIVATE DRIVES

EXC. ROCK = 0 C.Y.

EMB. EMBANKMENT = 680 C.Y.

INCLUDES 190 C.Y. TOPSOIL REPLACEMENT
INCLUDES 66 C.Y. FROM PVT. DRIVES

SHRINKAGE =30%

425 C.Y. EXC.
-327 C.Y. TOPSOIL
= 98 C.Y. * (1-0.30) = 69 C.Y. (COMMON)

EMB. REQUIRED:
680 C.Y. EMB.
69 C.Y. AVAIL. - 680 C.Y. EMB.
= (611) C.Y.
611 C.Y. * (1+0.30)
= 795 C.Y. BORROW (COMMON)

HAMILTON CHURCH RD. STA. 63+53.40 =
HAMILTON GLEN DR. STA. 20+74.49

OH WIRE
STA. 63+72.44
LOW WIRE EL.633.68'
TEMP. 62 DEG.
3 POWER
1 TELEPHONE
1 CABLE

19129-3201-94
END PROJECT NO. HSIP-4965(10) CONSTRUCTION
STA. 63+24.83 HAMILTON CHURCH ROAD
N 630804.3333 E 1785273.0796

OH WIRE
STA. 57+52.39
LOW WIRE EL.615.15'
TEMP. 35 DEG.
4 POWER

GPS 19-999-39
STA. 64+02.57, 14.99'(RT)
N 630777.0270
E 1785347.3910
ELEV 617.38
ALUM. DISK

OH WIRE
STA. 59+84.79
LOW WIRE EL.608.07'
TEMP. 62 DEG.
4 POWER
2 TELEPHONE
1 CABLE

PROP. 20' OF 18" RCP
@ 7.05%

19129-2201-94
END PROJECT NO. HSIP-4965(10) R.O.W.
STA. 59+90.06 HAMILTON CHURCH ROAD
N 630858.2074 E 1784942.6715

PROP. 5.5' OF 18" RCP
@ 4.90%
PROP. 25' OF 18" CMP
@ 1.00%

MH -
STA. 62+52.92
39.33' (RT)
TOP 602.19
INVERT 594.49

8" WATER LINE
STA. 63+61.57

HAMILTON CHURCH RD. STA. 57+88.04 =
OWENDALE DR. STA. 10+00.00

OH WIRE
STA. 57+28.82
LOW WIRE EL.595.61'
TEMP. 62 DEG.
1 CABLE

PROP. 24' OF 24" CMP @ 1.00%

SPL. "V" SOD
DT. RT. @ 4.90%

SPL. "V" SOD
DT. RT. @ 4.70%

SPL. "V" SOD
DT. RT. @ 11.69%

DITCH DT. RT. @ 4.90%

MH -
STA. 59+07.93
39.36' (RT)
TOP 583.86
INVERT 574.26

MH -
STA. 60+59.74
39.06' (RT)
TOP 589.49
INVERT 579.29

BEGIN SPL. DITCH
STA. 61+67.00
ELEV. 589.70

END SPL. DITCH
STA. 62+60.00
ELEV. 600.55

57
.584.47'
G.

OH WIRE
STA. 52+28.25
LOW WIRE EL.578.42'
TEMP. 62 DEG.
4 POWER

END SPL. DITCH RT.
STA. 58+82.50
ELEV. 578.76

BEGIN SPL. DITCH RT.
STA. 58+11.89
ELEV. 575.00

4" GAS LINE
STA. 57+63.66

8" SANITARY SEWER
STA. 59+07.59

GAS LINE (SIZE UNKNOWN)
STA. 56+58.46

GAS LINE (SIZE UNKNOWN)
STA. 56+80.03

END SPL. DITCH RT.
STA. 59+08.00
ELEV. 581.50

BEGIN SPL. DITCH RT.
STA. 59+06.00
ELEV. 579.00

CB -
STA. 60+24.73
13.44' (RT)
TOP 585.41
INVERT 583.80

CB -
STA. 61+35.99
13.70' (RT)
TOP 591.35
INVERT 588.46

MH -
STA. 60+24.93
17.04' (RT)
TOP 585.84
INVERT 582.44

TOP EL. 592.55
IN. EL. 589.43
IN. EL. 589.43
OUT.EL. 589.26

EXISTING GROUND

19129-2201-94
BEGIN PROJECT NO. HSIP-4965(10) R.O.W.
STA. 52+30.00 HAMILTON CHURCH ROAD
N 630970.1600 E 1784190.9327

PROP. 145' OF 18" RCP @ 1.03%

19129-3201-94
BEGIN PROJECT NO. HSIP-4965(10) CONSTRUCTION
STA. 52+34.35 HAMILTON CHURCH ROAD
N 630969.5849 E 1784195.2448

STA 52+56.84
EXISTING 10'X5' BOX CULVERT
SKEW 88° 40' 41" LT
FLOWS RIGHT
INLET 550.38
OUTLET 549.83

GPS 19-999-38
STA. 56+52.86, -17.78'(LT)
N 630328.2890
E 1784612.2350
ELEV 566.09
ALUM. DISK

52+00 53+00 54+00 55+00 56+00 57+00 58+00 59+00 60+00 61+00 62+00 63+00 64+00 65+00

630 625 620 615 610 605 600 595 590 585 580 575 570 565 560 555 550 545 540 535

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BRANDON S. BAXTER
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STATE OF TENNESSEE
11-26-24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROPOSED PROFILE

STA. 52+00 TO STA. 65+00

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	8
PS&E	2025	HSIP-4965(10)	8

630 625 620 615 610 605 600 595 590 585 580 575 570 565 560 555 550 545 540 535

675 670 665 660 655 650 645 640 635 630 625 620 615 610 605 600 595 590 585 580

10+00 11+00 12+00 13+00 20+00 20+50 21+00

OH WIRE
STA. 11+67.94
LOW WIRE EL.610.36'
TEMP. 35 DEG.
4 POWER

OWENDALE DR. STA. 12+53.69 =
HAMILTON CHURCH RD. STA. 57+88.04

OH WIRE
STA. 10+84.07
LOW WIRE EL.591.69'
TEMP. 62 DEG.
1 TELEPHONE

OH WIRE
STA. 12+34.52
LOW WIRE EL.593.84'
TEMP. 62 DEG.
4 POWER
1 TELEPHONE
1 CABLE

LIMIT OF CONST.
12+26.00

EXISTING GROUND

8" W

2" G

8" W

MH
STA. 10+54.27
1.23' (RT)
TOP 571.31
INVERT 560.20

12" WATER LINE
STA. 12+39.83

GPS 19-999-38
STA. 12+58.34, 135.52'(RT
N 630928.2890
E 1784612.2350
ELEV 566.09
ALUM. DISK

OWENDALE DRIVE

HAMILTON GLEN DR. STA. 20+00.00 =
HAMILTON CHURCH RD. STA. 63+53.40

OH WIRE
STA. 20+63.41
LOW WIRE EL.632.
TEMP. 62 DEG.
2 POWER
2 TELEPHONE
2 CABLE

EXISTING GROUND

18" W

4" GAS LINE
STA. 20+15.40

STA 20+23.16
EXISTING 18" RCP
SKEW 89° 01' 34"
FLOWS RIGHT
INLET 615.57
OUTLET 601.96

GPS 19-999-39
STA. 20+13.87, -4
N 630777.0270
E 1785347.3910
ELEV 617.38
ALUM. DISK

HAMILTON GLEN DRIVE

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11.20.24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIDE ROAD PROFILE

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

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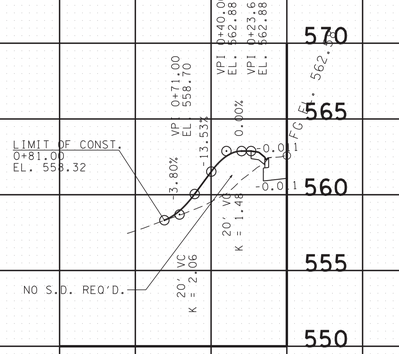
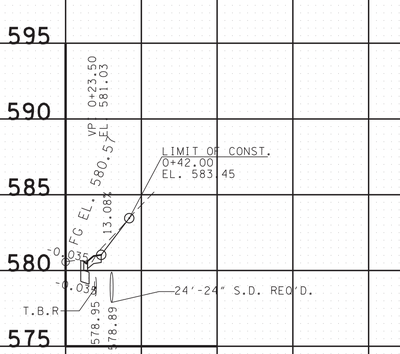
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	9
PS&E	2025	HSIP-4965(10)	9

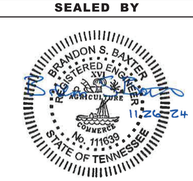


STA. 55+90.00 HAMILTON CHURCH RD
FLD. ENT. LT.
TRACT NO. 1



STA. 58+97.00 HAMILTON CHURCH RD
PVT. DR. RT.
TRACT NO. 4

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILE

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

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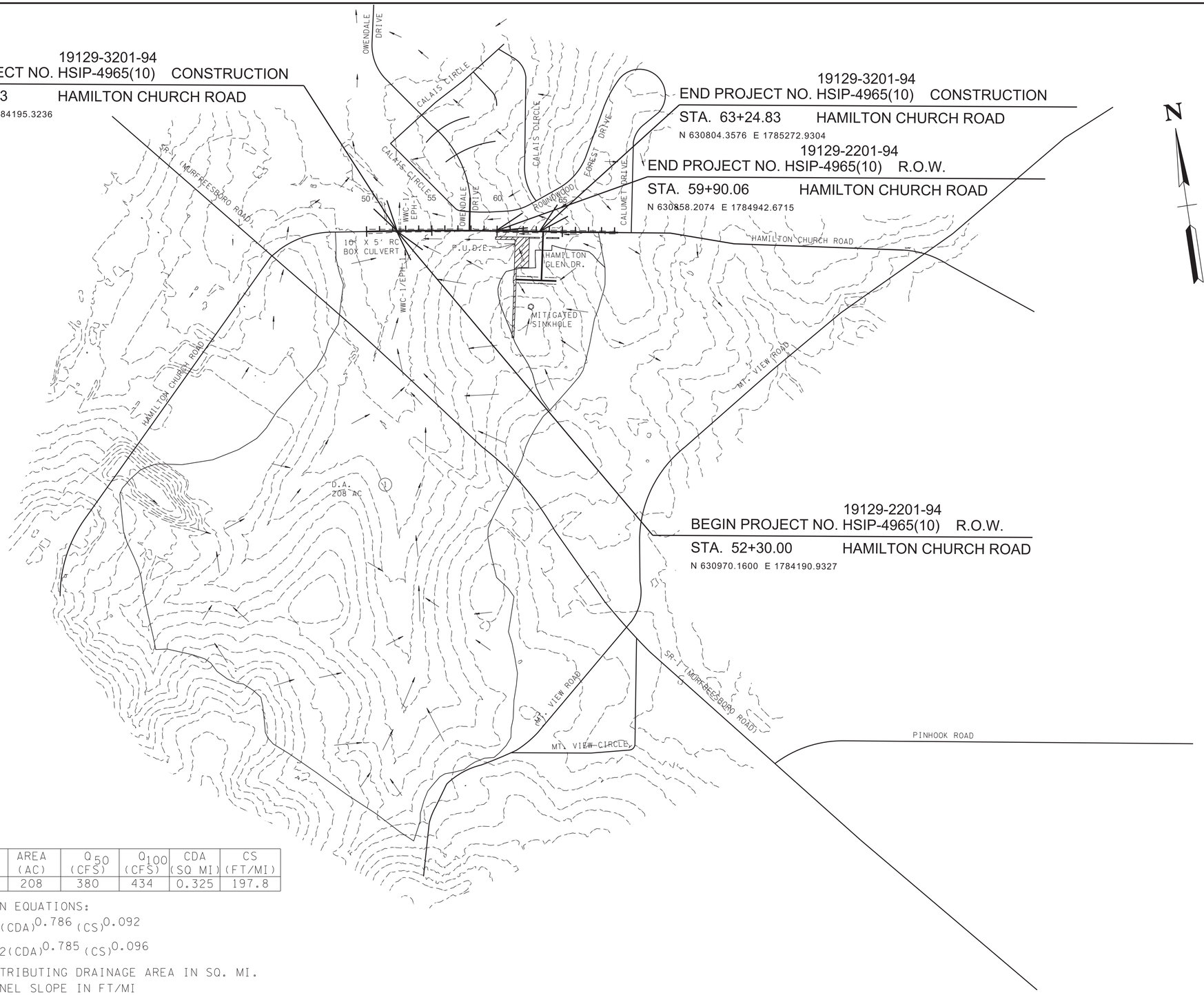
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	10
PS&E	2025	HSIP-4965(10)	10

19129-3201-94
BEGIN PROJECT NO. HSIP-4965(10) CONSTRUCTION
STA. 52+34.43 HAMILTON CHURCH ROAD
N 630969.5744 E 1784195.3236

19129-3201-94
END PROJECT NO. HSIP-4965(10) CONSTRUCTION
STA. 63+24.83 HAMILTON CHURCH ROAD
N 630804.3576 E 1785272.9304

19129-2201-94
END PROJECT NO. HSIP-4965(10) R.O.W.
STA. 59+90.06 HAMILTON CHURCH ROAD
N 630858.2074 E 1784942.6715

19129-2201-94
BEGIN PROJECT NO. HSIP-4965(10) R.O.W.
STA. 52+30.00 HAMILTON CHURCH ROAD
N 630970.1600 E 1784190.9327



DRAINAGE AREA	AREA (AC)	Q_{50} (CFS)	Q_{100} (CFS)	CDA (SQ MI)	CS (FT/MI)
1	208	380	434	0.325	197.8

REGRESSION EQUATIONS:

$Q_{50} = 565(CDA)^{0.786}(CS)^{0.092}$

$Q_{100} = 632(CDA)^{0.785}(CS)^{0.096}$

CDA = CONTRIBUTING DRAINAGE AREA IN SQ. MI.
CS = CHANNEL SLOPE IN FT/MI

DIRECTION OF FLOW
PUBLIC UTILITY & DRAINAGE EASEMENT(P.U.D.E.)

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 52+34.43 TO 63+24.68
SCALE: 1"=400'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	11
PS&E	2025	HSIP-4965(10)	11

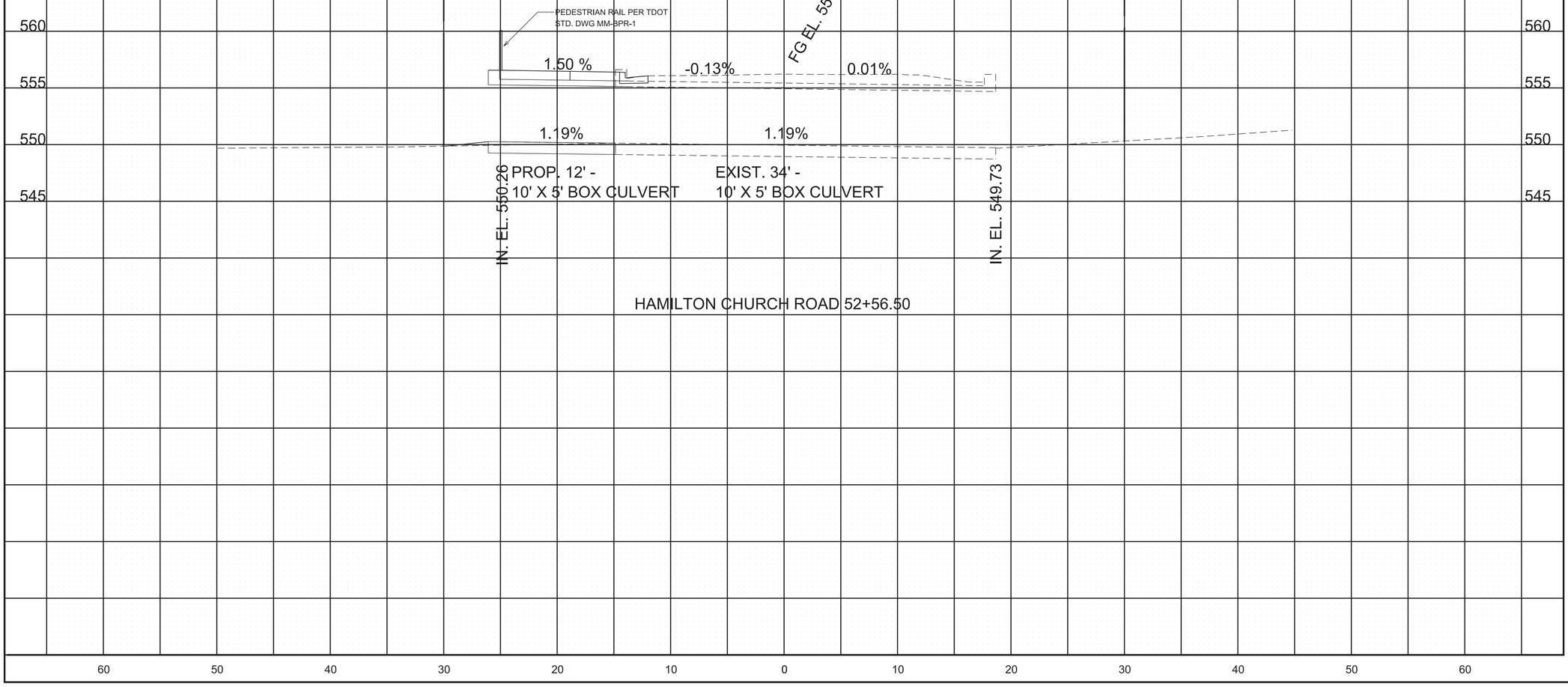
BOX CULVERT
STATION: 52+56.50
STRUCTURE: 10' X 5' BOX CULVERT

SKEW	88° 40' 41" LT	
DRAINAGE AREA	77.33	AC.
DESIGN DISCHARGE (Q50)	396	CFS
DESIGN DISCHARGE (Q100)	438	CFS
OVERTOPPING	556.46'	ELEV.
ALLOWABLE HEADWATER		
Q50 HEADWATER	556.19'	ELEV.
Q100 HEADWATER	556.61'	ELEV.
VELOCITY (Q50)	9.65	FT/S
VELOCITY (Q100)	9.99	FT/S
INLET	549.73	ELEV.
OUTLET	550.26	ELEV.

STANDARD DRAWING NOS.: STD-17-2, STD-17-3, STD-17-5, STD-17-6, STD-17-7, STD-17-10, STD-17-11, STD-17-16, STD-17-17, STS-17-18, STD-17-20, STD-17-23, STD-17-54

QUANTITIES:

CLASS "A" CONCRETE	C.Y.
STEEL BAR REINFORCING	LB.
BACKFILL	TONS
FOUNDATION FILL MATERIAL	C.Y.



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTION

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

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	12
PS&E	2025	HSIP-4965(10)	12

ENVIRONMENTAL NOTES

EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

DISTURBED AREA

(1) IF DISTURBED ACREAGE IS EQUAL TO ONE ACRE OR MORE, PLEASE CONTACT TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION AS SOON AS POSSIBLE BECAUSE AN NPDES PERMIT WILL BE REQUIRED.

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

(3) UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES.

(4) PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E. CLEARING AND GRUBBING INITIATED) MORE THAN 14 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS MULCHED, SEEDED WITH MULCH, OR OTHER TEMPORARY COVER IS APPLIED.

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

SEDIMENT CONTROL

(6) EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.

(7) TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE/DURING A PRECIPITATION EVENT.

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

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

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

INSPECTION, MAINTENANCE & REPAIR

(11) THE TDOT CONSTRUCTION SUPERVISOR (OR THEIR DESIGNEE) AND THE CONTRACTOR'S RESPONSIBLE PARTY ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION SUPERVISOR OR THEIR DESIGNEE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

(12) TDOT CONSULTANTS AND CONTRACTOR STAFF RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE, AND/OR REPAIR OF EPSC MEASURES SHALL SUCCESSFULLY COMPLETE THE TDEC "LEVEL 1 - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION. TDOT STAFF AND SUPERVISORS RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE, AND/OR REPAIR OF EPSC MEASURES SHALL SUCCESSFULLY COMPLETE THE TDOT "FUNDAMENTALS OF EROSION AND SEDIMENT CONTROL" CLASS AND ANY REFRESHER COURSES AS REQUIRED TO MAINTAIN CERTIFICATION.

(13) EPSC CONTROLS SHALL BE INSPECTED ACCORDING TO PERMIT REQUIREMENTS TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT.

(14) DISCHARGE POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE ROADWAY SEDIMENT TRACKING.

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

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

(17) THE EPSC PLAN SHALL BE UPDATED WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY.

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

EROSION PREVENTION

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

(20) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EPSC MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CULVERT OR BRIDGE CONSTRUCTION, CUTTING, FILLING, OR ANY OTHER EARTHWORK OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.

(21) NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE TDOT RESPONSIBLE PARTY. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EPSC DEVICES ON THE EPSC PLAN.

(22) TEMPORARY STABILIZATION SHALL BE INITIATED WITHIN 14 CALENDAR DAYS 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 MEASURES IN DISTURBED AREAS SHALL BE INITIATED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OF ANY PHASE OF CONSTRUCTION.

(23) STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT.

(24) PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS.

(25) TEMPORARY OR PERMANENT STABILIZATION MUST BE FREE OF FINES (SILT AND CLAY SIZED PARTICLES). UNPACKED GRAVEL CONTAINING FINES OR CRUSHER-RUN WILL NOT BE CONSIDERED SUFFICIENT STABILIZATION.

(26) DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED.

PERMITS, PLANS & RECORDS

(27) THE EPSC PLAN IS TO SERVE AS AN INITIAL GUIDE FOR SITE PERSONNEL AS THE CONSTRUCTION PROCESS DEVELOPS. IT MUST BE AMENDED, MODIFIED, AND UPDATED WHENEVER A CHANGE IN THE DESIGN OR CONSTRUCTION OF THE PROJECT OCCURS. THE STAGES DEPICTED IN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL PHASES OF CONSTRUCTION ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION, THUS MODIFICATIONS WILL BE REQUIRED TO ENSURE THE EPSC PLAN IS MAINTAINED TO DEPICT CURRENT SITE CONDITIONS. IT SHOULD BE MAINTAINED SUCH THAT IT WILL ALWAYS REFLECT THE MEASURES THAT ARE INSTALLED DURING THE VARIOUS PHASES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE PHASES OF CONSTRUCTION THAT WILL OCCUR; THUS THESE DOCUMENTS WILL HAVE TO BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

(28) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.

(29) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION. APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED.

(30) CONTRACTORS SHALL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED, NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ONSITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.

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EROSION PREVENTION & SEDIMENT CONTROL (EPSC) NOTES

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ENVIRONMENTAL NOTES (CONTINUED)

(31) WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM.

(32) IF PORTABLE SANITARY FACILITIES ARE PROVIDED ON CONSTRUCTION SITES, SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.

(33) ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR'S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL.

(34) WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFFSITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.

(35) ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.

(36) ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.

(37) OPEN BURNING IS PROHIBITED UNLESS IT IS SPECIFICALLY ALLOWED BY LAW. IF ALLOWED, NATURAL VEGETATION, TREES, AND UNTREATED LUMBER SHALL BE THE ONLY MATERIALS THAT CAN BE OPEN BURNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE AND LOCAL PERMITS PRIOR TO ANY BURNING.

(38) DISPOSAL OF ONSITE VEGETATION AND TREES BY CHIPPING THEM INTO MULCH IS PREFERABLE TO OPEN BURNING. THIS MULCH MAY BE USED AS AN ONSITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.

(39) WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S), CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

SUPPORT ACTIVITIES

(40) IF OFFSITE BORROW AND WASTE AREAS BECOME NECESSARY DURING THE LIFE OF THE PROJECT, THIS SUPPORT ACTIVITY SHALL BE ADDRESSED PER THE TDOT WASTE AND BORROW MANUAL.

(41) MATERIALS AND STAGING AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN.

(42) IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY EPSC PLANS FOR THE MATERIAL AND STAGING AREAS TO THE ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW.

SPILL PREVENTION, MANAGEMENT & NOTIFICATION

(43) ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE AND SPILLS.

(44) FOR ALL HAZARDOUS MATERIALS STORED ONSITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP SHALL BE CLEARLY POSTED. SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.

(45) APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT SHALL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ONSITE AND UNDER COVER. SPILL RESPONSE EQUIPMENT SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.

(46) ALL SPILLS SHALL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

(47) THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.

(48) IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION SHALL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR SHALL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.

(49) FERTILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED. ONCE APPLIED, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER.

(50) IF A SPILL OCCURS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE TDOT PROJECT RESPONSIBLE PARTY. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

(51) WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD, SEE THE LATEST TENNESSEE GENERAL PERMIT NO. TNR100000 STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES SECTION 5.1 FOR REPORTING REQUIREMENTS.

(52) CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ONSITE OR ADJACENT TO THE R.O.W. IN ABOVE GROUND STORAGE CONTAINERS WITH A COMBINED CAPACITY OF 1320 GALLONS OR MORE SHALL HAVE SECONDARY CONTAINMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN FOR THE BULK STORAGE AND BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ONSITE AND A COPY PROVIDED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO STORING 1320 GALLONS ON SITE.

EROSION PREVENTION AND SEDIMENT CONTROL SPECIAL NOTES

STREAMS, WETLANDS & BUFFER ZONES

(1) 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. 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.

(2) A 30 FOOT NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 30 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 15 FEET AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES.

(3) BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND MUST 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. 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. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	HSIP-4965(10)	12A

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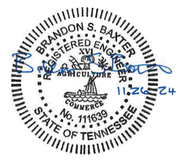

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	HSIP-4965(10)	12B

EPSC STAGING NOTES:

STAGE 1:
INSTALL SEDIMENT TUBES, SILT FENCE WITH BACKING, AND CURB INLET PROTECTION BEFORE BEGINNING CLEARING AND GRUBBING.

STAGE 2:
EPSC DEVICES FROM STAGE 1 ARE TO REMAIN AND BE MAINTAINED OR REPLACED AS DIRECTED BY THE ENGINEER. CONSTRUCT THE IMPROVEMENTS AS DETAILED IN THESE PLANS. ADD ROCK CHECK DAMS AS DITCH GRADING IS COMPLETED. USE TEMPORARY STABILIZATION AS NEEDED.

STAGE 3:
COMPLETE ANY REMAINING CONSTRUCTION ACTIVITIES. PLACE SOD FOR FINAL STABILIZATION AS SOON AS FINISHED GRADE IS ACHIEVED. REMOVE EPSC DEVICES AS DIRECTED BY ENGINEER.

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
209-05	SEDIMENT REMOVAL	C.Y.	7
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	200
209-08.07	ROCK CHECK DAM PER	EACH	12
209-08.08	ENHANCED ROCK CHECK DAM	EACH	5
209-09.41	CURB INLET PROTECTION (TYPE 2)	EACH	4
209-40.46	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EACH	1
209-40.47	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EACH	1
707-08.11	HIGH VISIBILITY CONSTRUCTION FENCE	L.F.	100
740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	1375

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
✳ 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
✳ ✳TUBE 12" ✳ ✳ TUBE 12" ✳ ✳	12 INCH SEDIMENT TUBE	EC-STR-37
2	CURB INLET PROTECTION (TYPE 2)	EC-STR-39
✳ HVF ✳ HVF ✳	HIGH VISIBILITY FENCE	S-F-1
6	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EC-STR-46
7	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EC-STR-47

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BRANDON S. BAXTER
REGISTERED ENGINEER
No. 111639
STATE OF TENNESSEE
11-26-24

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) NOTES, LEGEND & TABULATION

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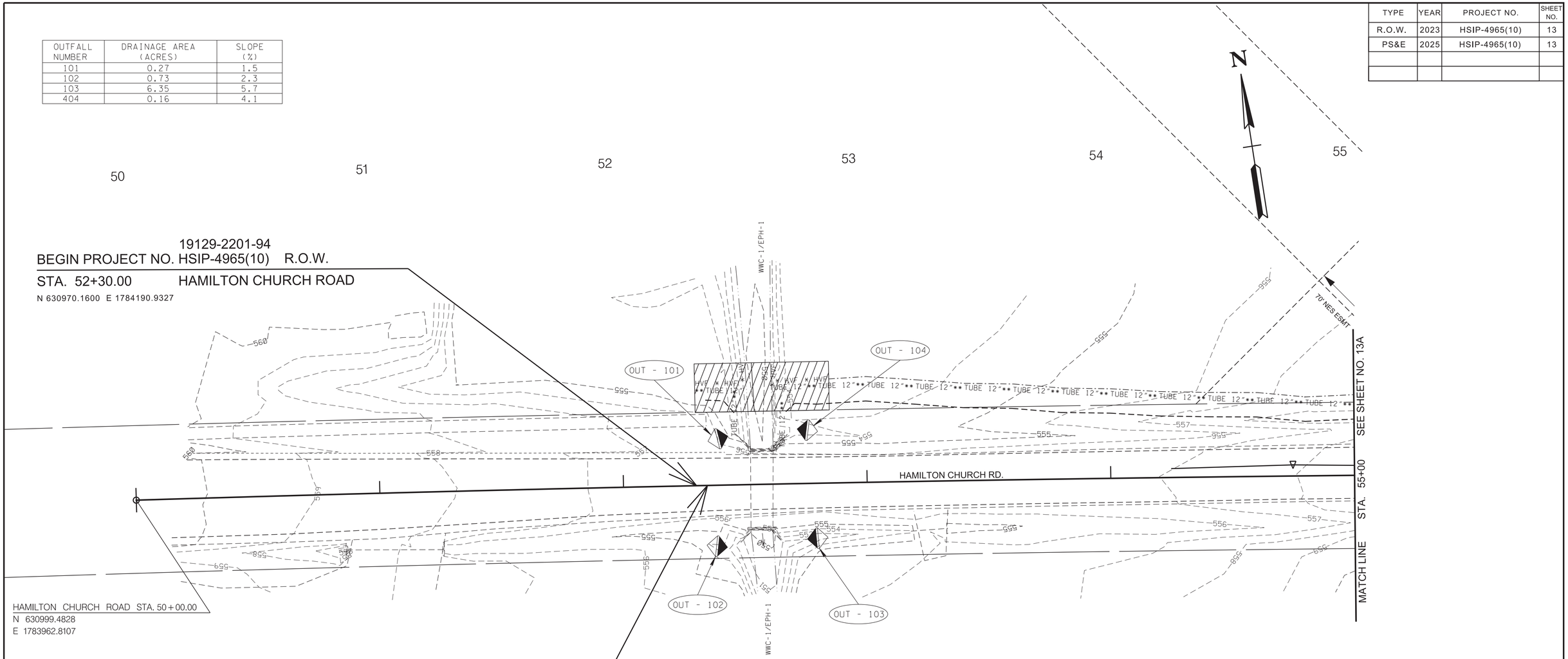
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	13
PS&E	2025	HSIP-4965(10)	13

OUTFALL NUMBER	DRAINAGE AREA (ACRES)	SLOPE (%)
101	0.27	1.5
102	0.73	2.3
103	6.35	5.7
404	0.16	4.1



PERMANENT DRAINAGE EASEMENT

SLOPE EASEMENT

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STATE OF TENNESSEE
11-26-24

COORDINATES ARE NAD 83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 WITH GEOID g2003u07.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 52+00 TO STA. 55+00

SCALE: 1"= 20'

EXISTING CONTOURS SHOWN

EPSC STAGE I - CLEARING AND GRUBBING

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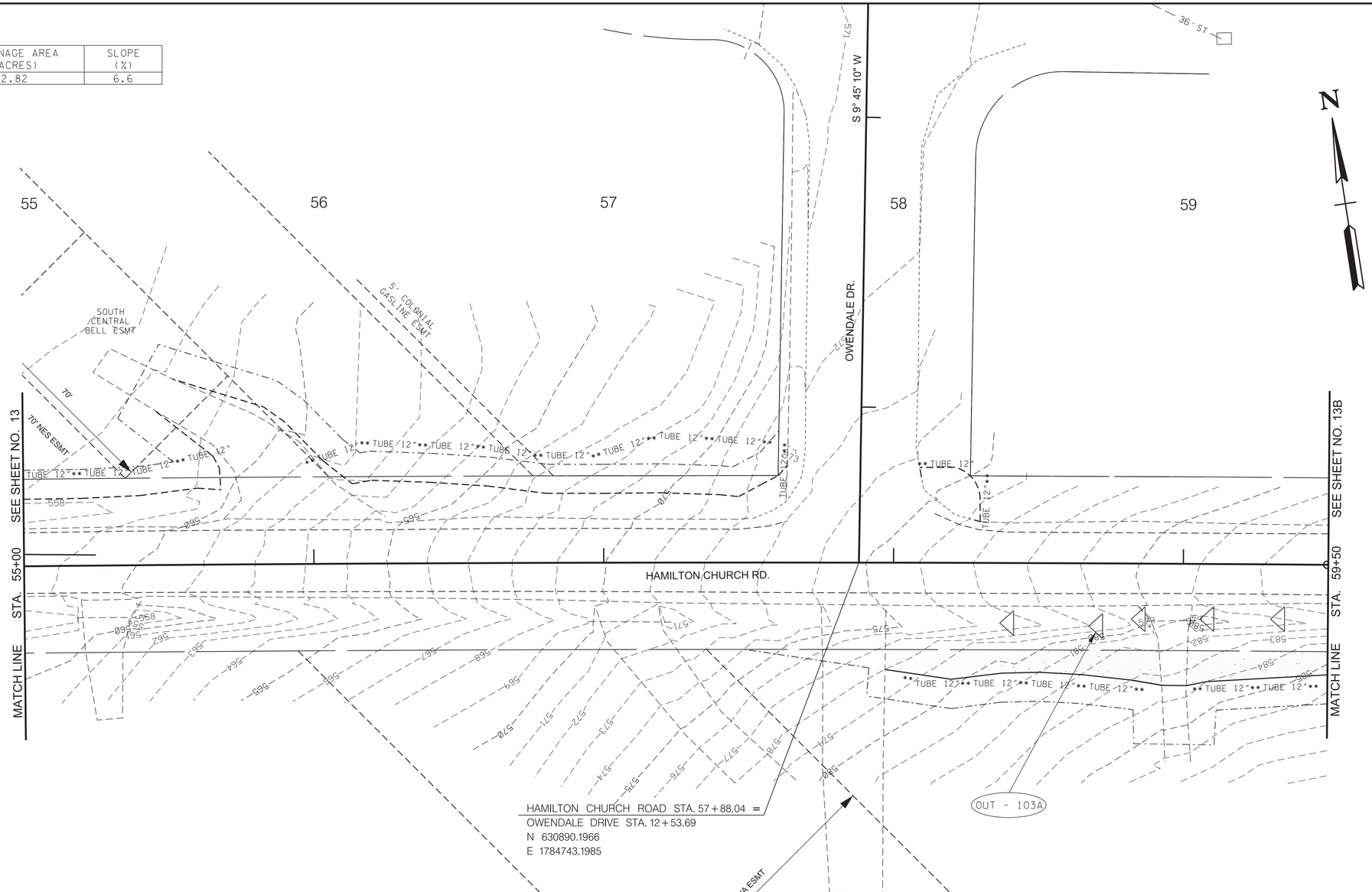
OUTFALL NUMBER	DRAINAGE AREA (ACRES)	SLOPE (%)
103A	2.82	6.6

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	13A
PS&E	2025	HSIP-4965(10)	13A

REV. 08/08/2023: UPDATED FILL LINE ALONG NORTHEAST CORNER OF INTERSECTION TO ACCOUNT FOR RELOCATION OF PROPOSED SIDEWALK.



EXISTING CONTOURS SHOWN
EPSC STAGE I - CLEARING AND GRUBBING

SEALED BY

BRANDON S. BAXTER
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No. 117639
STATE OF TENNESSEE
11-26-24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 55+00 TO STA. 59+50
SCALE: 1"= 20'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	13B
PS&E	2025	HSIP-4965(10)	13B

OUTFALL NUMBER	DRAINAGE AREA (ACRES)	SLOPE (%)
103B	1.50	5.5

60 61 62 63 64

19129-3201-94

END PROJECT NO. HSIP-4965(10) CONSTRUCTION

STA. 63+24.83 HAMILTON CHURCH ROAD

N 630804.3333 E 1785273.0796

HAMILTON CHURCH ROAD STA. 63+53.40 =
HAMILTON GLEN DRIVE STA. 20+00.00
N 630799.7362
E 1785301.2731

SEE SHEET NO. 13A

STA. 59+50

MATCH LINE

HAMILTON CHURCH RD.

S 80° 44' 21" E

N 10° 33' 29" E

24" ST

18" ST

TUBE 12" ** TUBE 12" **

CONST. ESMT.

12' R.O.W. RESERVATION

20' P.U.D.E.

8' P.U.D.E.

CUT

FILL

OUT - 103B

MB

HAMILTON GLEN (ASP.)

HAMILTON GLEN DRIVE STA. 20+74.49
N 630726.5083
E 1785287.6245

SLOPE EASEMENT

EXISTING CONTOURS SHOWN
EPSC STAGE I - CLEARING AND GRUBBING

SEALED BY

BRANDON S. BAXTER
REGISTERED ENGINEER
No. 111639
STATE OF TENNESSEE

11.26.24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 59+50 TO STA. 65+00

SCALE: 1"= 20'

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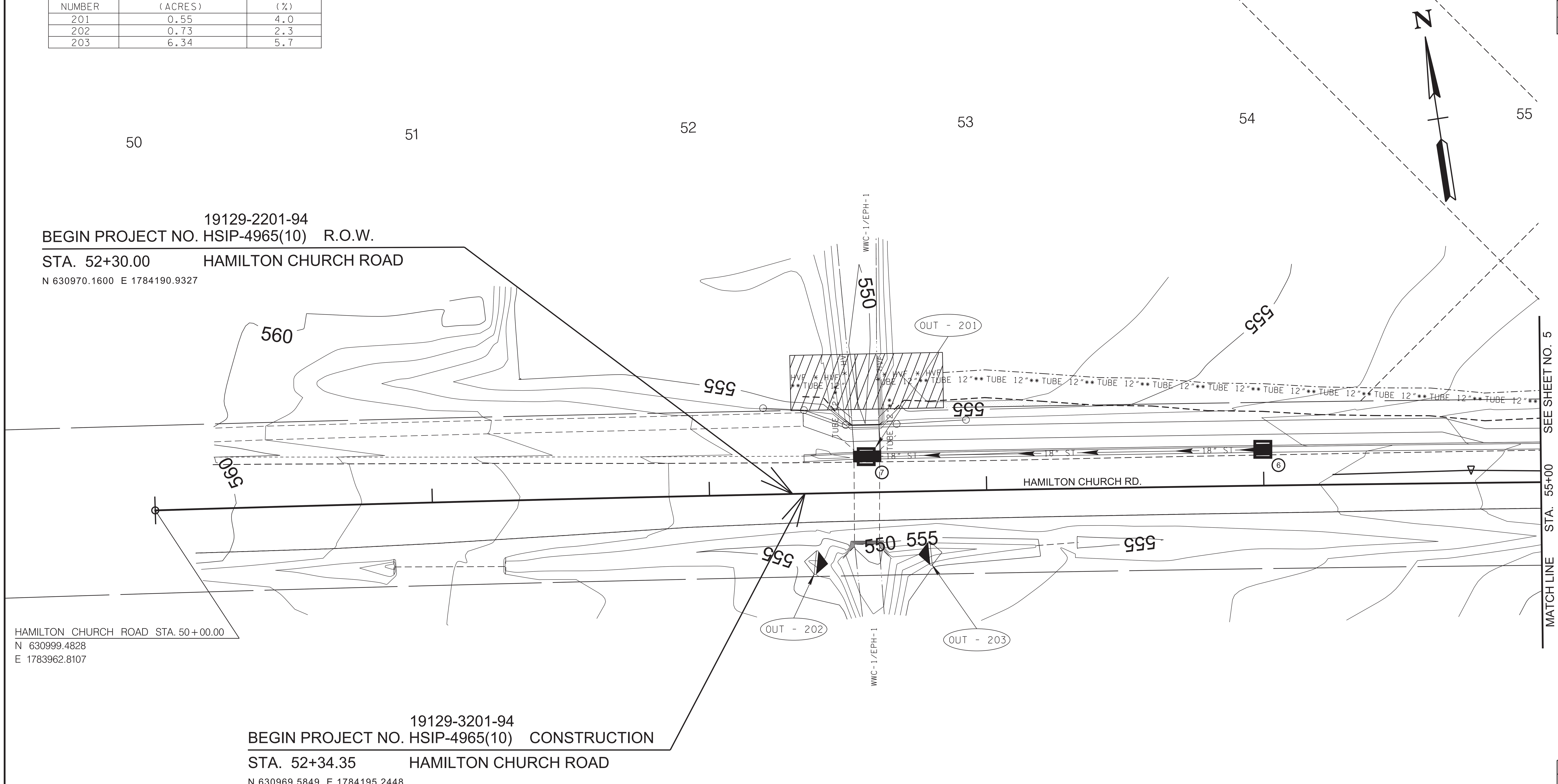
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	14
PS&E	2025	HSIP-4965(10)	14

OUTFALL NUMBER	DRAINAGE AREA (ACRES)	SLOPE (%)
201	0.55	4.0
202	0.73	2.3
203	6.34	5.7



PERMANENT DRAINAGE EASEMENT

SLOPE EASEMENT

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PROPOSED CONTOURS SHOWN
EPSC STAGE 2 - INTERMEDIATE GRADING

SEALED BY

BRANDON S. BAXTER REGISTERED ENGINEER AGRICULTURE COMMERCE No. 111639 STATE OF TENNESSEE

11.26.24

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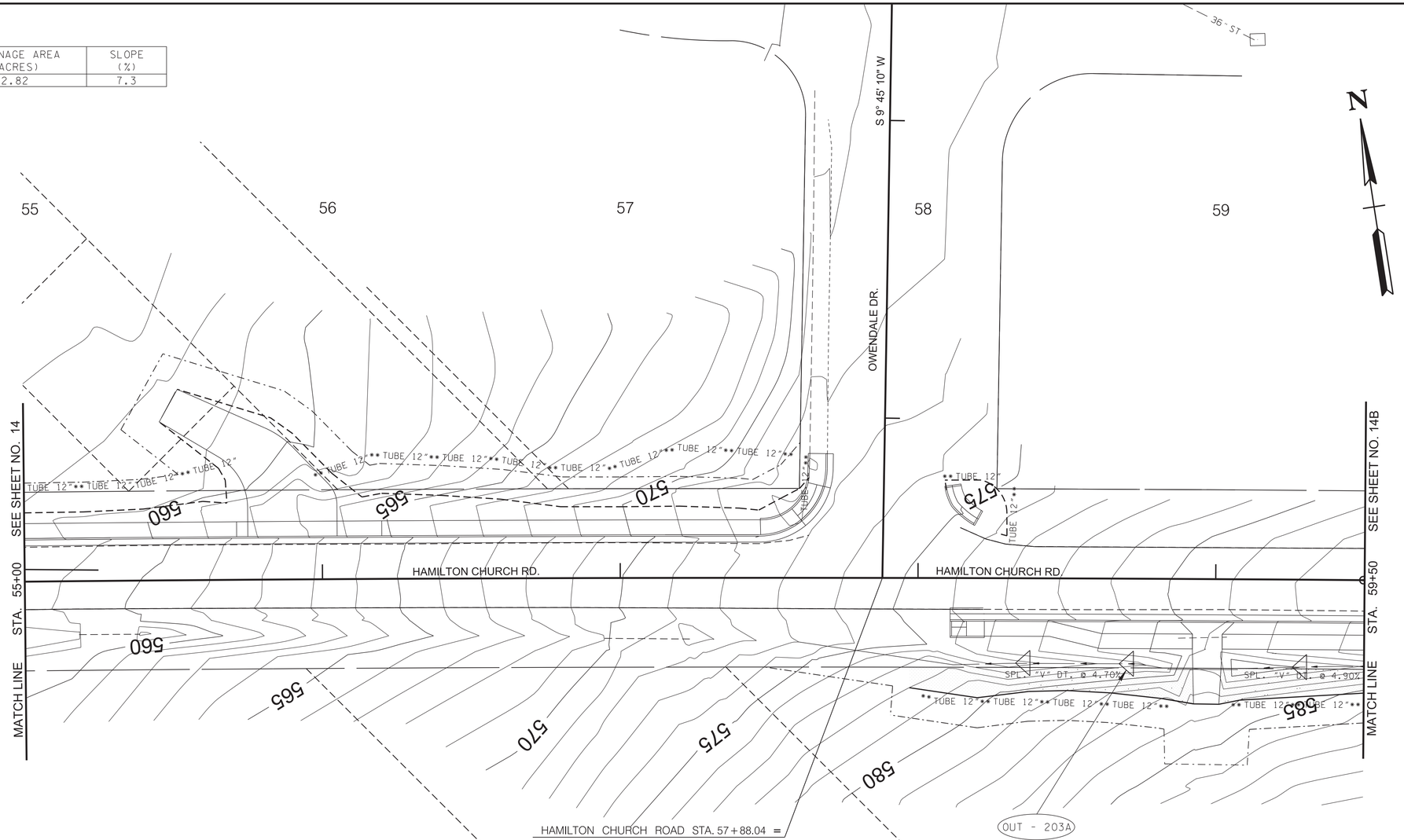
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS
STA. 52+00 TO STA. 55+00
SCALE: 1"= 20'

OUTFALL NUMBER	DRAINAGE AREA (ACRES)	SLOPE (%)
203A	2.82	7.3

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	14A
PS&E	2025	HSIP-4965(10)	14A

REV. 08/08/2023: UPDATED FILL LINE ALONG NORTHEAST CORNER OF INTERSECTION TO ACCOUNT FOR RELOCATION OF PROPOSED SIDEWALK.



HAMILTON CHURCH ROAD STA. 57+88.04 =
OWENDALE DRIVE STA. 12+53.69
N 630890.1966
E 1784743.1985

SLOPE EASEMENT

PROPOSED CONTOURS SHOWN
EPSC STAGE 2 - INTERMEDIATE GRADING

SEALED BY

BRANDON S. BAXTER
REGISTERED ENGINEER
No. 117639
STATE OF TENNESSEE
11-26-24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 55+00 TO STA. 59+50
SCALE: 1"= 20'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	14B
PS&E	2025	HSIP-4965(10)	14B

OUTFALL NUMBER	DRAINAGE AREA (ACRES)	SLOPE (%)
203B	1.50	5.5

19129-2201-94
END PROJECT NO. HSIP-4965(10) R.O.W.
STA. 59+90.06 HAMILTON CHURCH ROAD
N 630858.2074 E 1784942.6715

19129-3201-94
END PROJECT NO. HSIP-4965(10) CONSTRUCTION
STA. 63+24.83 HAMILTON CHURCH ROAD
N 630804.3333 E 1785273.0796

HAMILTON CHURCH ROAD STA. 63+53.40 =
HAMILTON GLEN DRIVE STA. 20+00.00
N 630799.7362
E 1785301.2731

HAMILTON GLEN DRIVE STA. 20+74.49
N 630726.5083
E 1785287.6245

SEE SHEET NO. 14A

MATCH LINE STA. 59+50

HAMILTON CHURCH RD.

S 80° 44' 21" E

N 10° 33' 29" E

HAMILTON GLEN (ASP.)

12' R.O.W. RESERVATION

OUT - 203B

SLOPE EASEMENT

PROPOSED CONTOURS SHOWN
EPSC STAGE 2 - INTERMEDIATE GRADING

SEALED BY

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No. 111699
STATE OF TENNESSEE
11-26-24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 59+50 TO STA. 65+00
SCALE: 1"= 20'

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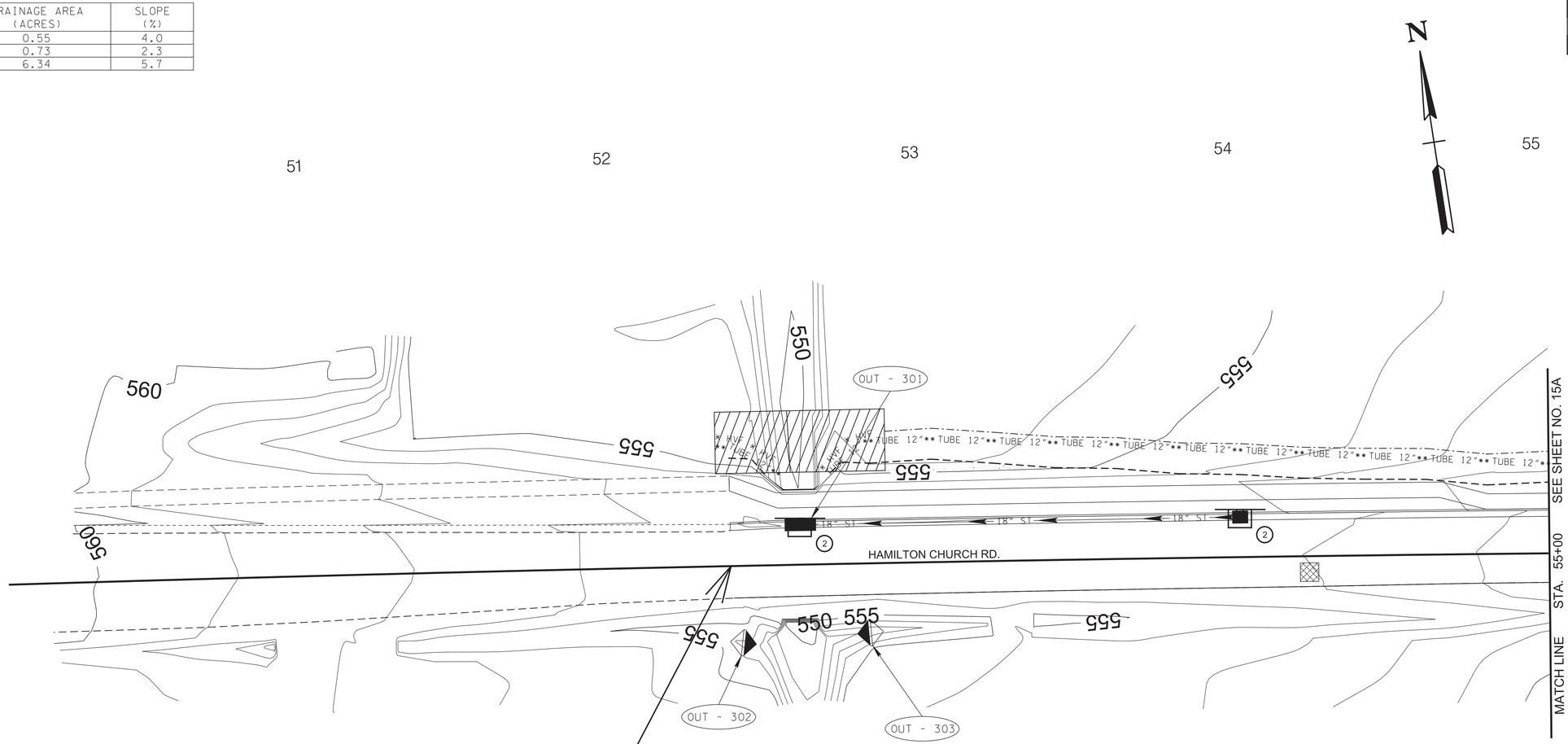
OUTFALL NUMBER	DRAINAGE AREA (ACRES)	SLOPE (%)
301	0.55	4.0
302	0.73	2.3
303	6.34	5.7

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	15
PS&E	2025	HSIP-4965(10)	15



19129-3201-94

BEGIN PROJECT NO. HSIP-4965(10) CONSTRUCTION

STA. 52+34.35 HAMILTON CHURCH ROAD

N 630969.5849 E 1784195.2448

SLOPE EASEMENT

PROPOSED CONTOURS SHOWN
EPSC STAGE 3 - FINAL STABILIZATION

SEALED BY

BRANDON S. BAXTER
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No. 111699
STATE OF TENNESSEE
11-26-24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 52+00 TO STA. 55+00

SCALE: 1"= 20'

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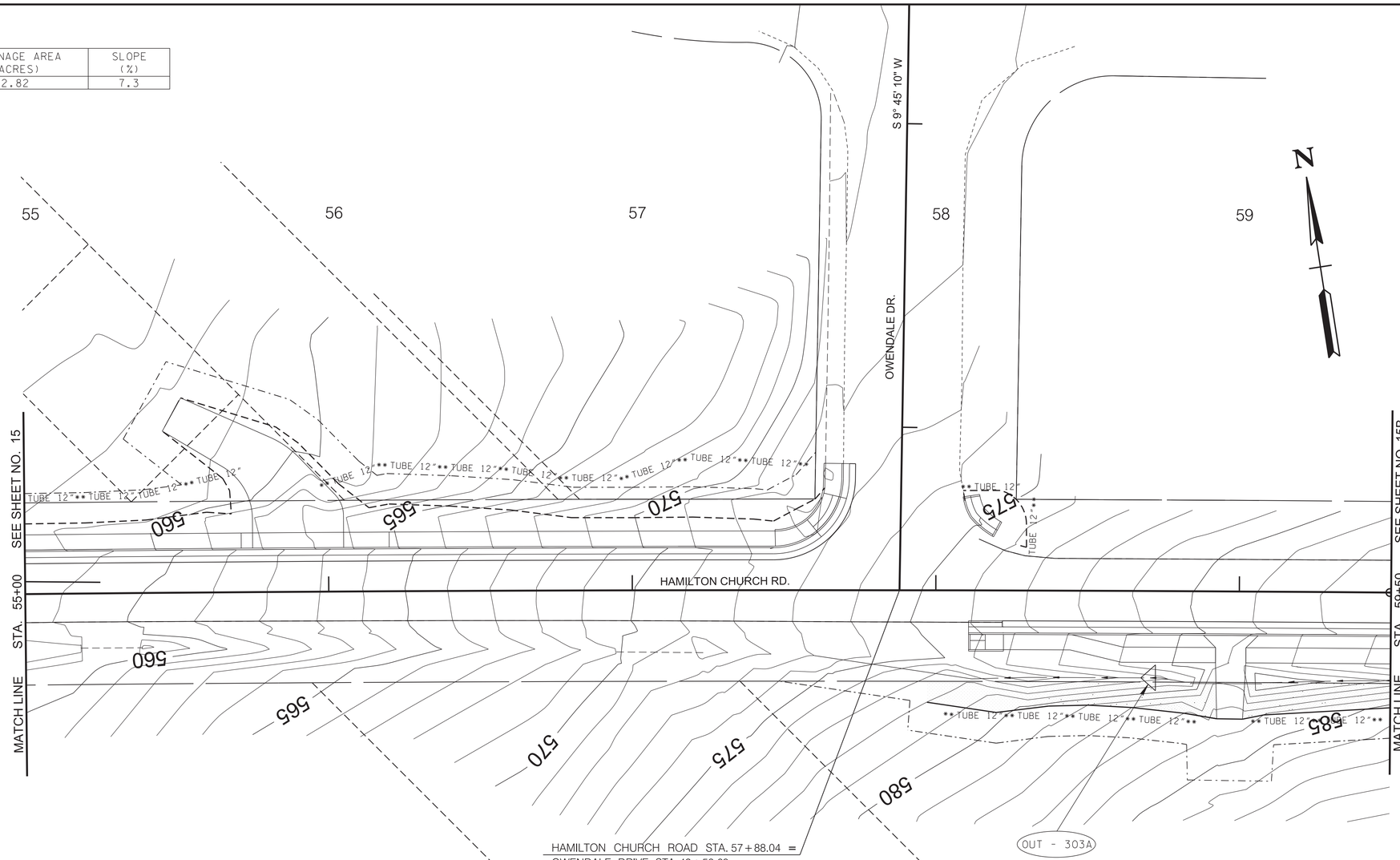
OUTFALL NUMBER	DRAINAGE AREA (ACRES)	SLOPE (%)
303A	2.82	7.3

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	15A
PS&E	2025	HSIP-4965(10)	15A

REV. 08/08/2023: UPDATED FILL LINE ALONG NORTHEAST CORNER OF INTERSECTION TO ACCOUNT FOR RELOCATION OF PROPOSED SIDEWALK.



HAMILTON CHURCH ROAD STA. 57+88.04 =
OWENDALE DRIVE STA. 12+53.69
N 630890.1966
E 1784743.1985

PERMANENT DRAINAGE EASEMENT

SLOPE EASEMENT

PROPOSED CONTOURS SHOWN
EPSC STAGE 3 - FINAL STABILIZATION

SEALED BY

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11-26-24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 55+00 TO STA. 59+50
SCALE: 1"= 20'

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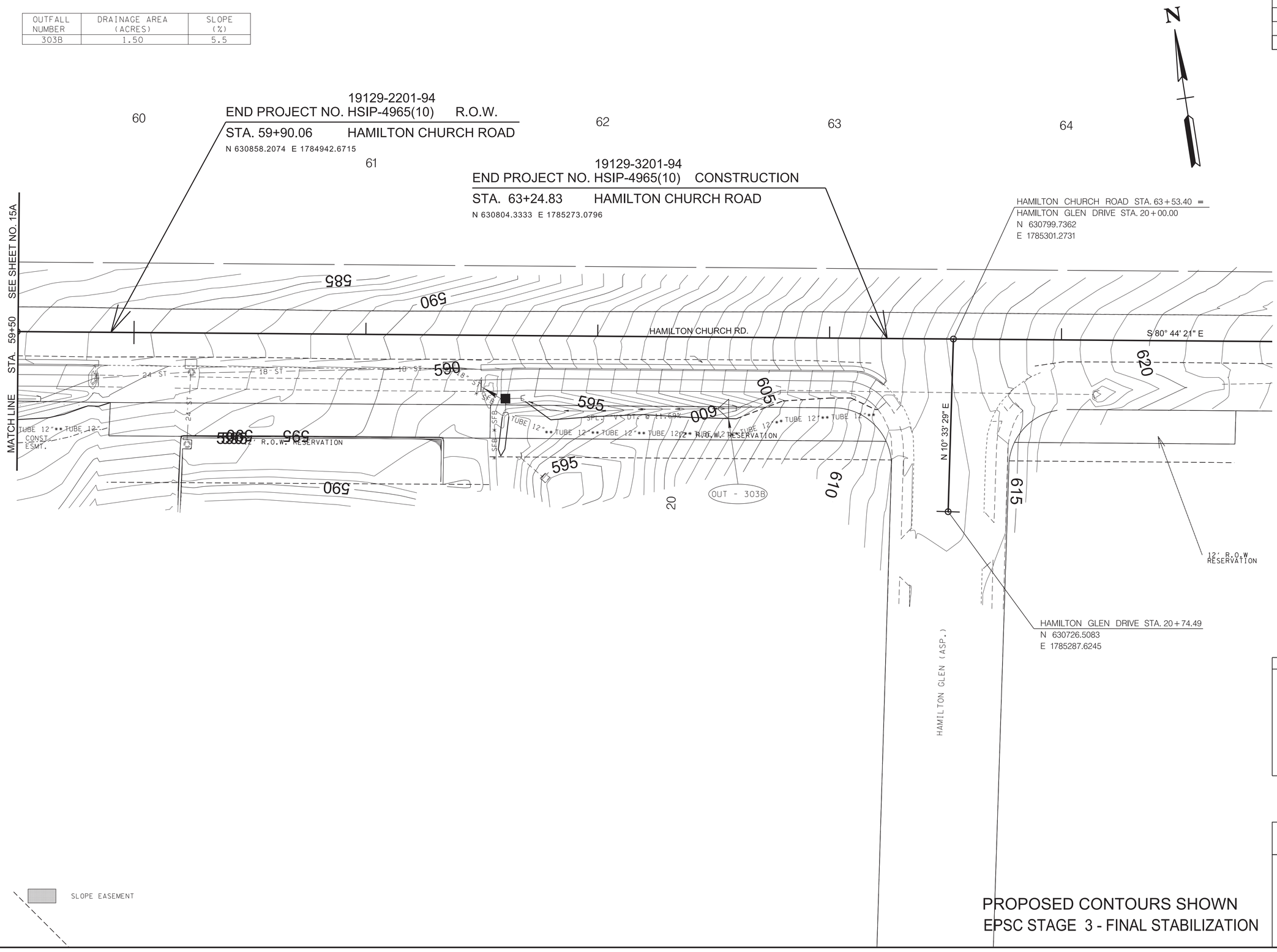
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	15B
PS&E	2025	HSIP-4965(10)	15B

OUTFALL NUMBER	DRAINAGE AREA (ACRES)	SLOPE (%)
303B	1.50	5.5



PROPOSED CONTOURS SHOWN
EPSC STAGE 3 - FINAL STABILIZATION

SEALED BY

BRANDON S. BAXTER
REGISTERED ENGINEER
No. 111699
STATE OF TENNESSEE
11-26-24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

STA. 59+50 TO STA. 65+00
SCALE: 1"= 20'

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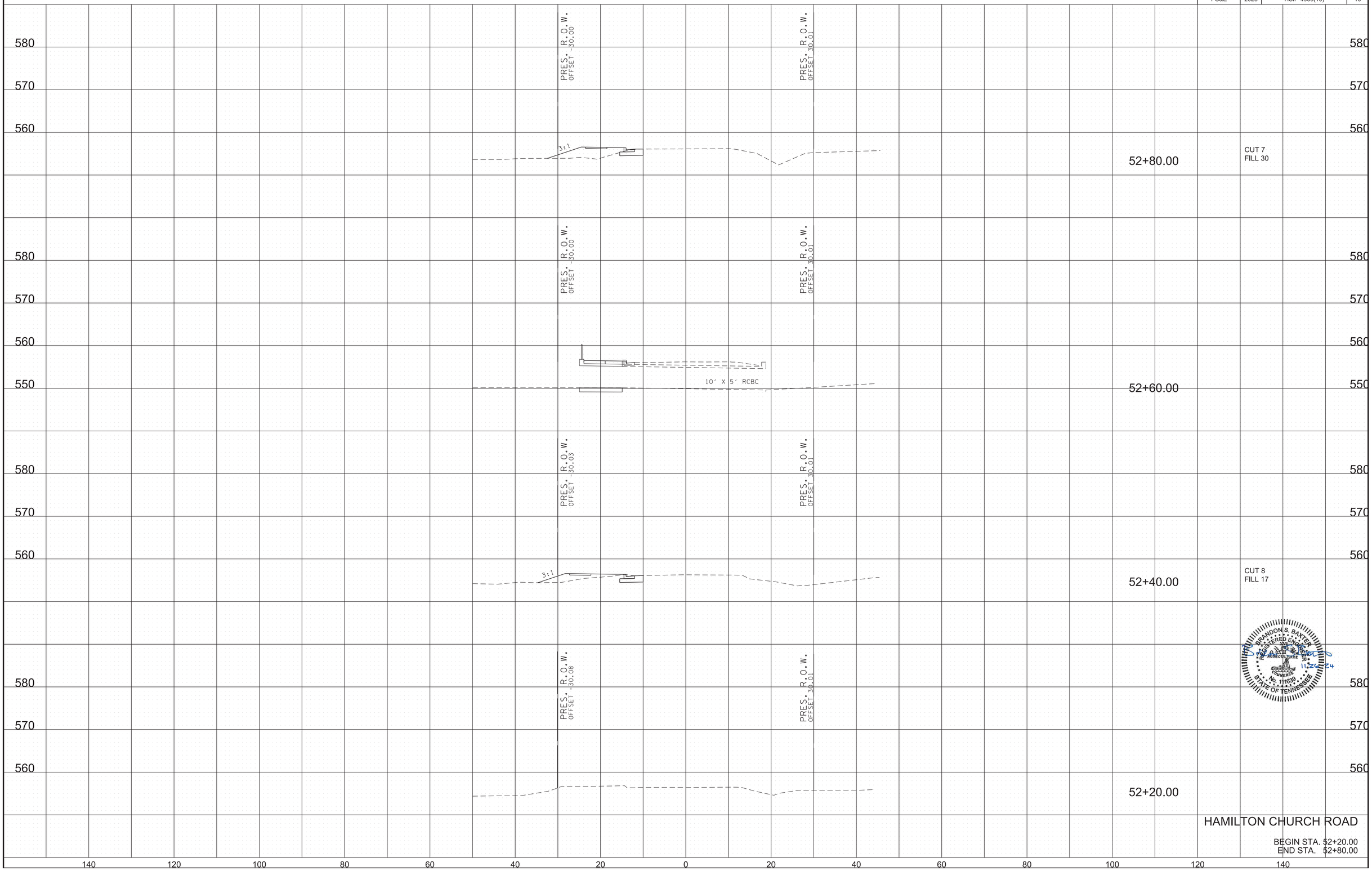
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	16
PS&E	2025	HSIP-4965(10)	16



BRANDON S. BAXTER
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
COMMERCE
No. 111699
STATE OF TENNESSEE
11.26.24

HAMILTON CHURCH ROAD

BEGIN STA. 52+20.00
END STA. 52+80.00

11/26/2024 1:00:34 PM
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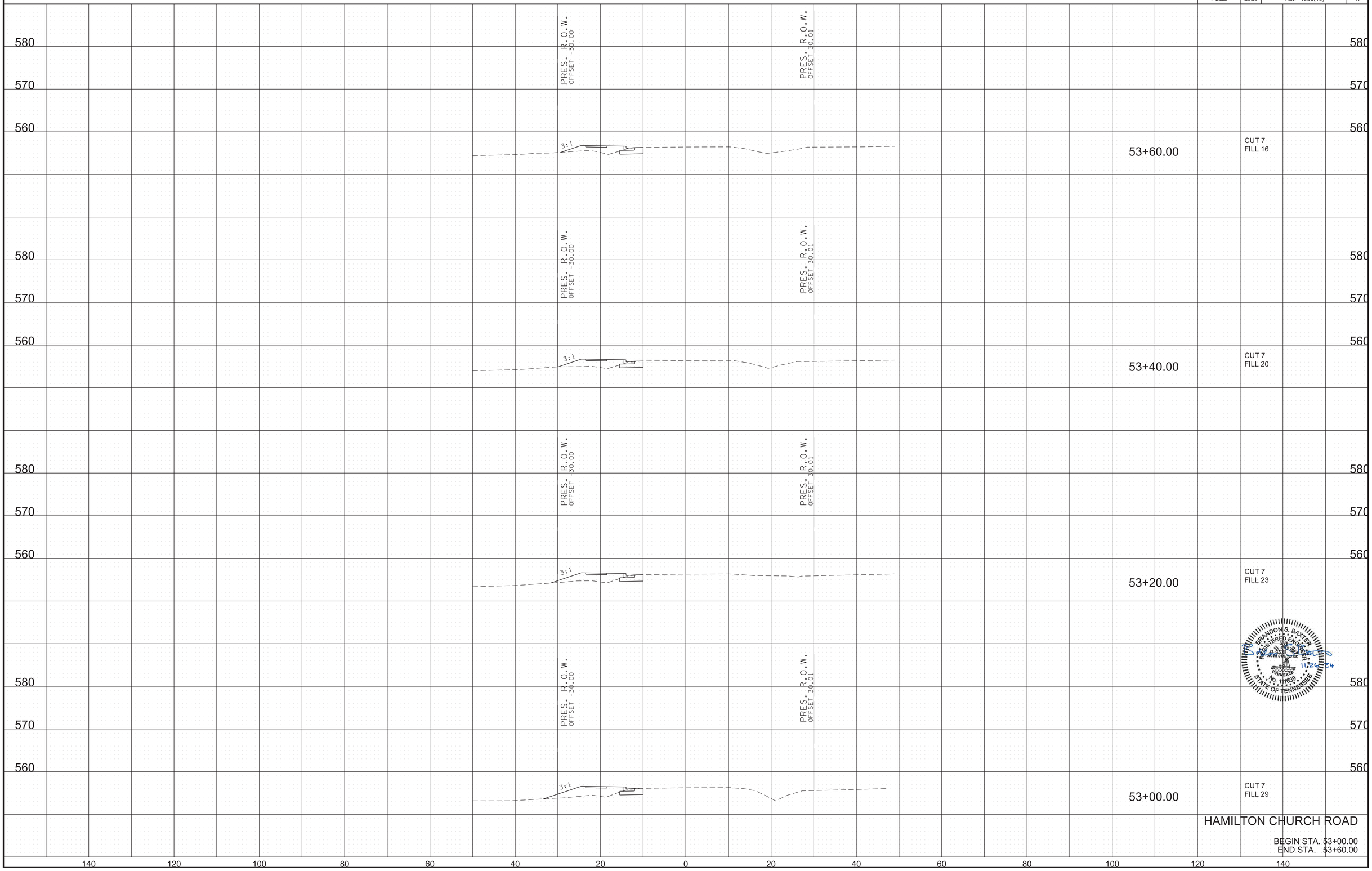
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	17
PS&E	2025	HSIP-4965(10)	17



BRANDON S. BAXTER
REGISTERED ENGINEER
STATE OF TENNESSEE
No. 111639
11-20-24

HAMILTON CHURCH ROAD

BEGIN STA. 53+00.00
END STA. 53+60.00

11/26/2024 1:00:35 PM
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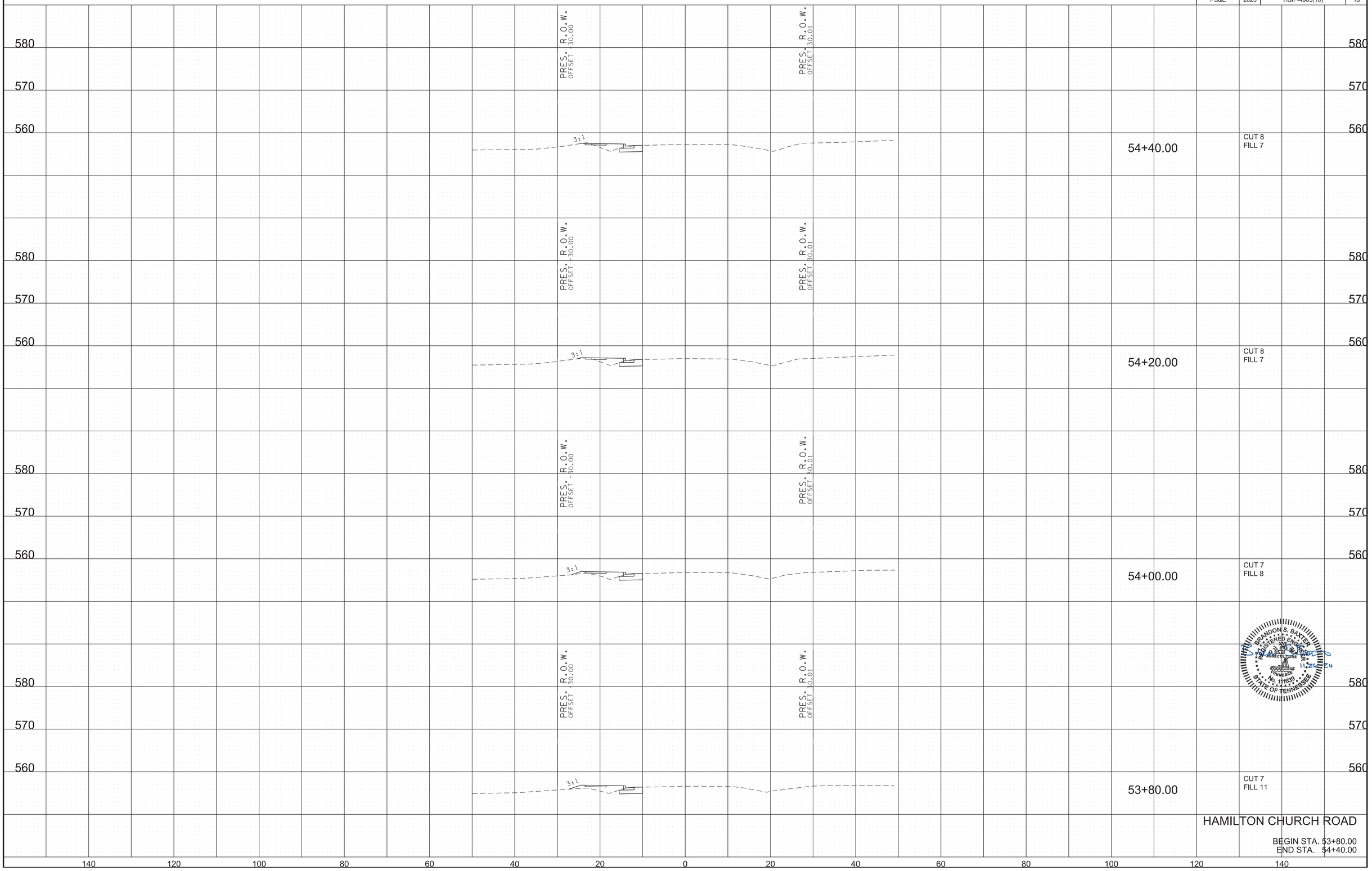
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	18
PS&E	2025	HSIP-4965(10)	18



HAMILTON CHURCH ROAD

BEGIN STA. 53+80.00
END STA. 54+40.00

11/26/2024 1:00:37 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	19
PS&E	2025	HSIP-4965(10)	19

590
580
570
560

PRES. R.O.W. OFFSET -30.00

PRES. R.O.W. OFFSET 30.01

4:1

55+20.00

CUT 7
FILL 8

590
580
570
560

PRES. R.O.W. OFFSET -30.00

PRES. R.O.W. OFFSET 30.01

14:1

55+00.00

CUT 7
FILL 7

590
580
570
560

PRES. R.O.W. OFFSET -30.00

PRES. R.O.W. OFFSET 30.01

67:1

54+80.00

CUT 7
FILL 5

590
580
570
560

PRES. R.O.W. OFFSET -30.00

PRES. R.O.W. OFFSET 30.01

54+60.00

CUT 8
FILL 6

BRANDON S. BAXTER
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
COMMERCE
No. 111699
STATE OF TENNESSEE

11.20.24

HAMILTON CHURCH ROAD

BEGIN STA. 54+60.00
END STA. 55+20.00

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

11/26/2024 1:00:38 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	20
PS&E	2025	HSIP-4965(10)	20

590
580
570
560

PRES. R.O.W.
OFFSET -30.00

PRES. R.O.W.
OFFSET 30.01

3:1

55+80.00

CUT 7
FILL 13

55+60.00

CUT 7
FILL 21

55+40.00

CUT 7
FILL 8

BRANDON S. BAXTER
REGISTERED ENGINEER
STATE OF TENNESSEE
No. 111699

11.20.24

HAMILTON CHURCH ROAD

BEGIN STA. 55+40.00
END STA. 55+80.00

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

11/26/2024 1:00:40 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	21
PS&E	2025	HSIP-4965(10)	21

590
580
570

PRES. R.O.W.
OFFSET -30.00

PRES. R.O.W.
OFFSET 30.01

3:1

56+40.00

CUT 8
FILL 23

590
580
570

PRES. R.O.W.
OFFSET -30.00

PRES. R.O.W.
OFFSET 30.01

3:1

56+20.00

CUT 7
FILL 23

590
580
570

PRES. R.O.W.
OFFSET -30.00

PRES. R.O.W.
OFFSET 30.01

3:1

56+00.00

CUT 7
FILL 14

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

BRANDON S. BAXTER
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
No. 111699
STATE OF TENNESSEE
11-20-24

HAMILTON CHURCH ROAD

BEGIN STA. 56+00.00
END STA. 56+40.00

11/26/2024 1:00:42 PM
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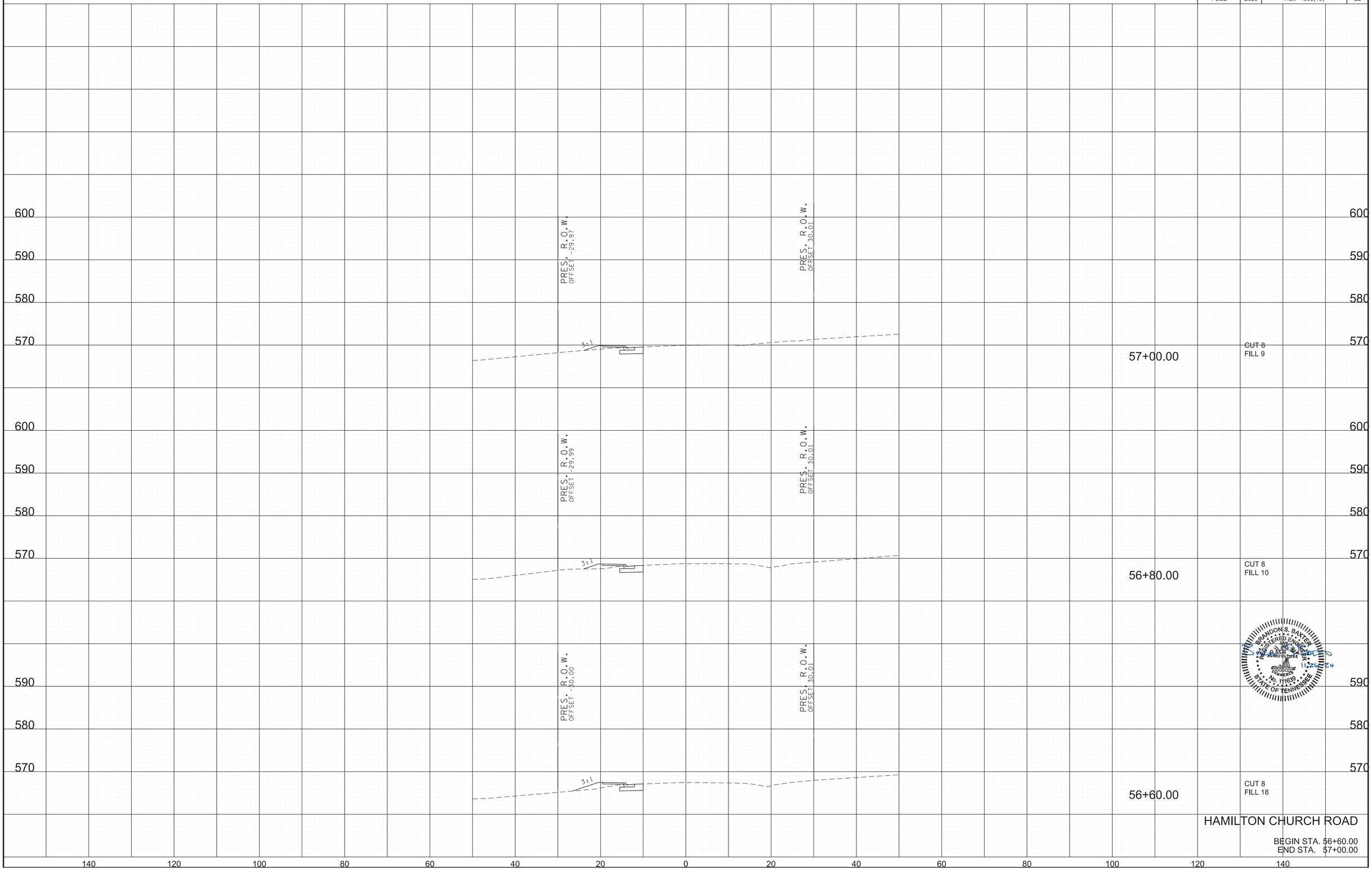
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	22
PS&E	2025	HSIP-4965(10)	22



BRANDON S. BAXTER
REGISTERED ENGINEER
No. 111699
STATE OF TENNESSEE
11.20.24

HAMILTON CHURCH ROAD

BEGIN STA. 56+60.00
END STA. 57+00.00

11/26/2024 1:00:43 PM
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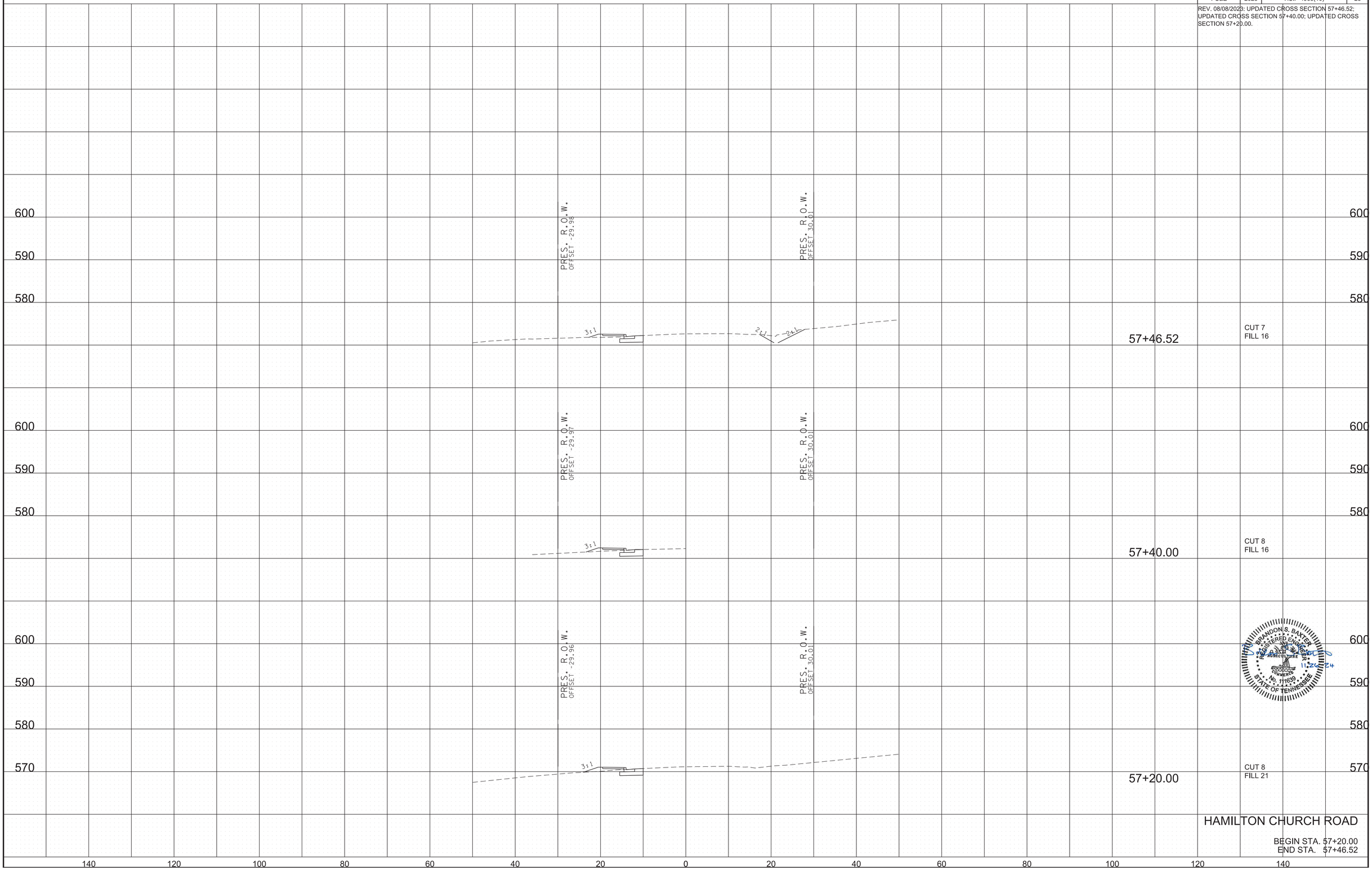
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	23
PS&E	2025	HSIP-4965(10)	23

REV. 08/08/2023: UPDATED CROSS SECTION 57+46.52; UPDATED CROSS SECTION 57+40.00; UPDATED CROSS SECTION 57+20.00.



BRANDON S. BAXTER
REGISTERED ENGINEER
No. 111699
STATE OF TENNESSEE
11-20-24

HAMILTON CHURCH ROAD

BEGIN STA. 57+20.00
END STA. 57+46.52

11/26/2024 1:00:44 PM
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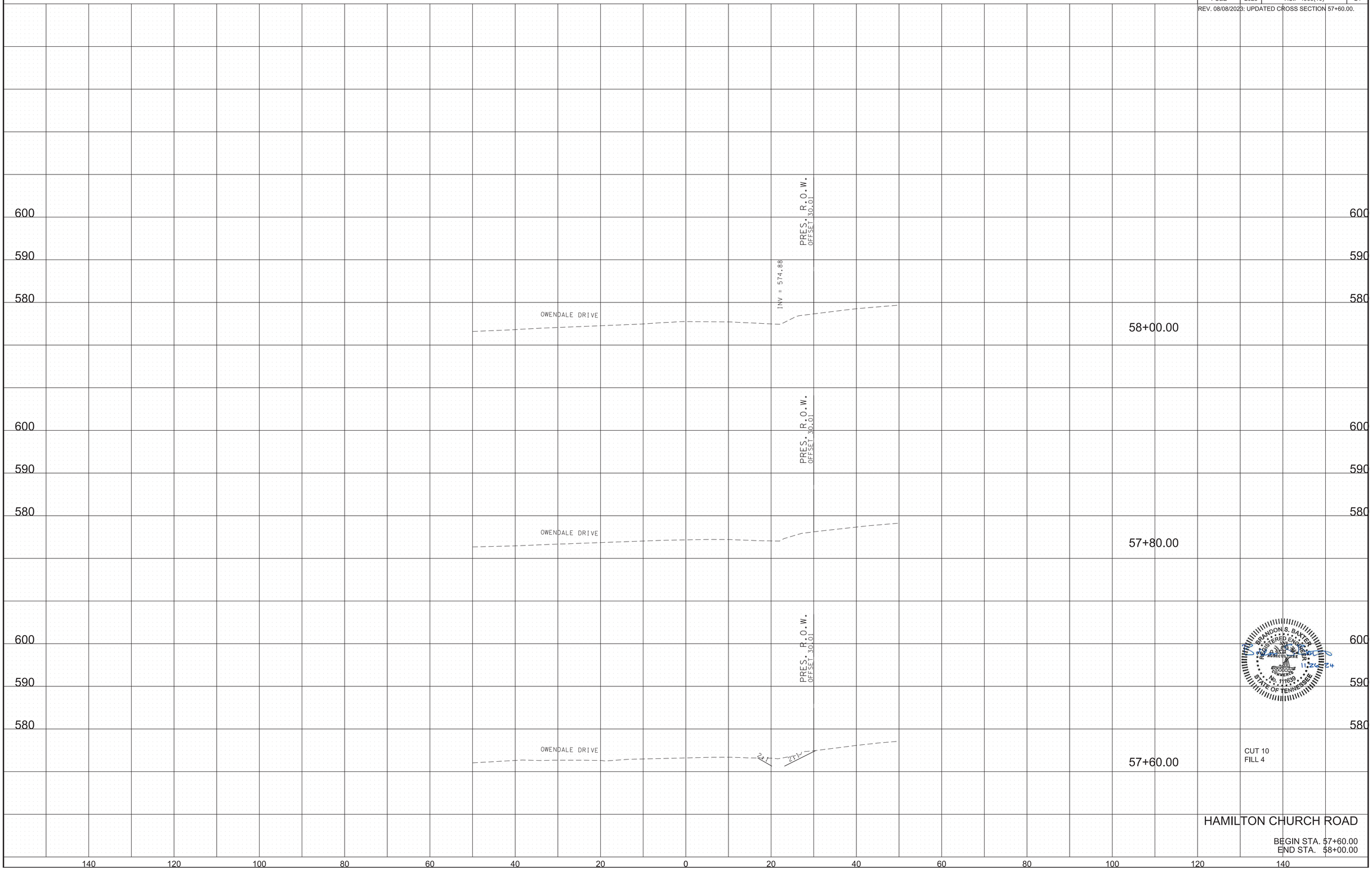
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	24
PS&E	2025	HSIP-4965(10)	24

REV. 08/08/2023: UPDATED CROSS SECTION 57+60.00.



BRANDON S. BAXTER
REGISTERED ENGINEER
STATE OF TENNESSEE
No. 111639
DEPARTMENT OF AGRICULTURE
11-20-24

HAMILTON CHURCH ROAD

BEGIN STA. 57+60.00
END STA. 58+00.00

11/26/2024 1:00:46 PM
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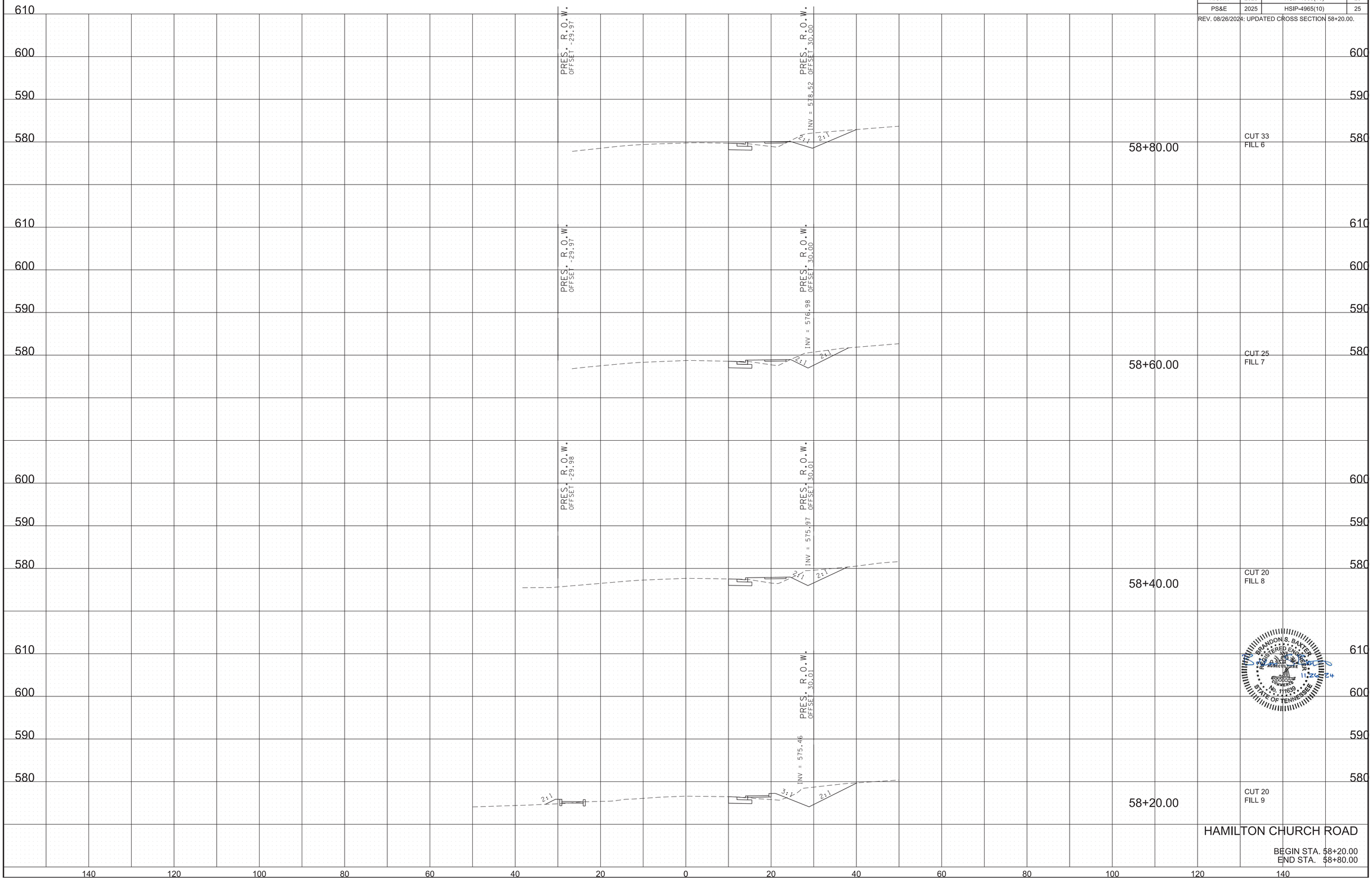
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	25
PS&E	2025	HSIP-4965(10)	25

REV. 08/26/2024: UPDATED CROSS SECTION 58+20.00.



BRANDON S. BAXTER
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
No. 111699
STATE OF TENNESSEE
11.20.24

HAMILTON CHURCH ROAD

BEGIN STA. 58+20.00
END STA. 58+80.00

11/26/2024 1:00:47 PM
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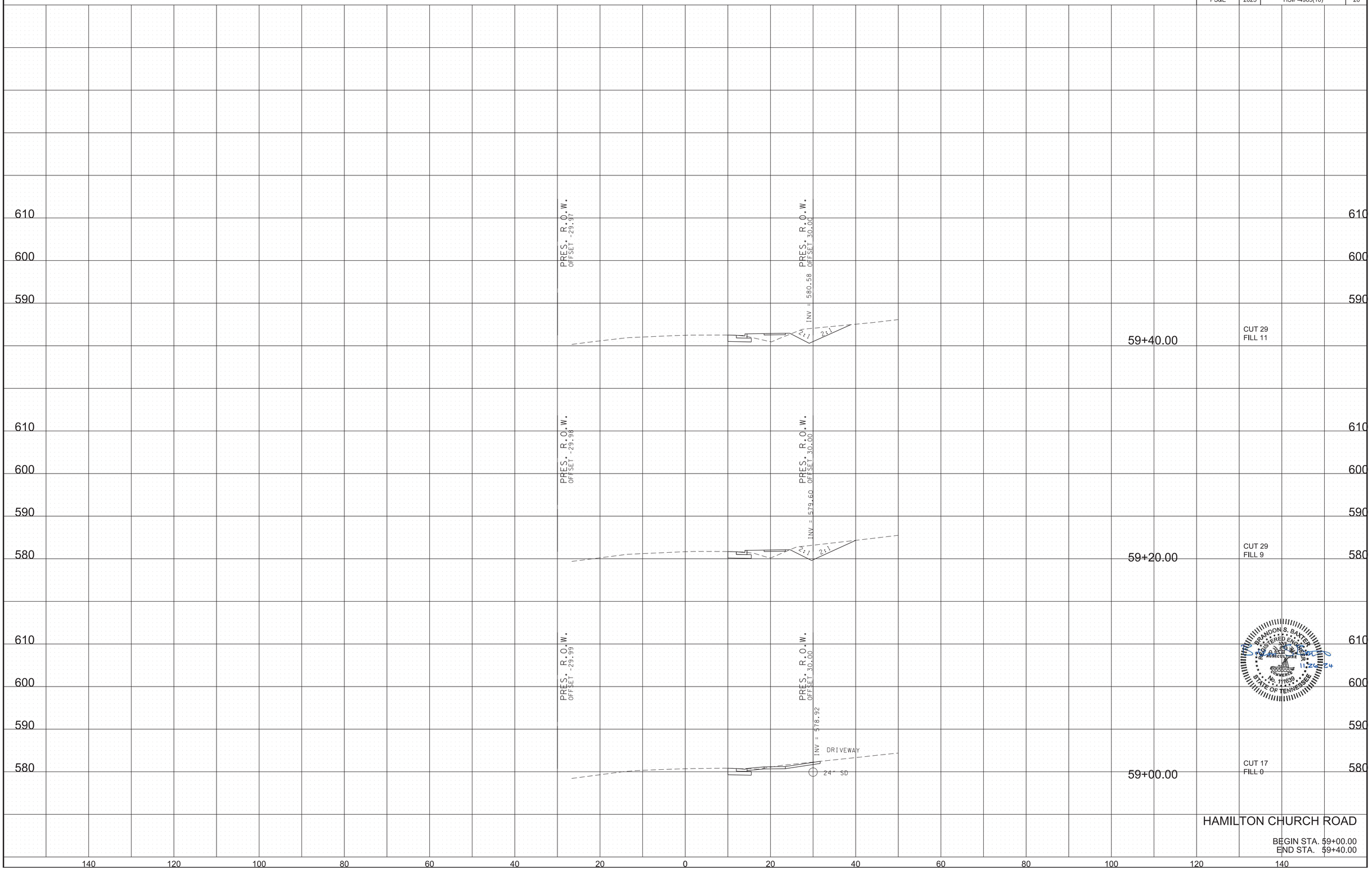
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	26
PS&E	2025	HSIP-4965(10)	26



BRANDON S. BAXTER
REGISTERED ENGINEER
No. 111699
STATE OF TENNESSEE
11-20-24

HAMILTON CHURCH ROAD

BEGIN STA. 59+00.00
END STA. 59+40.00

11/26/2024 1:00:49 PM
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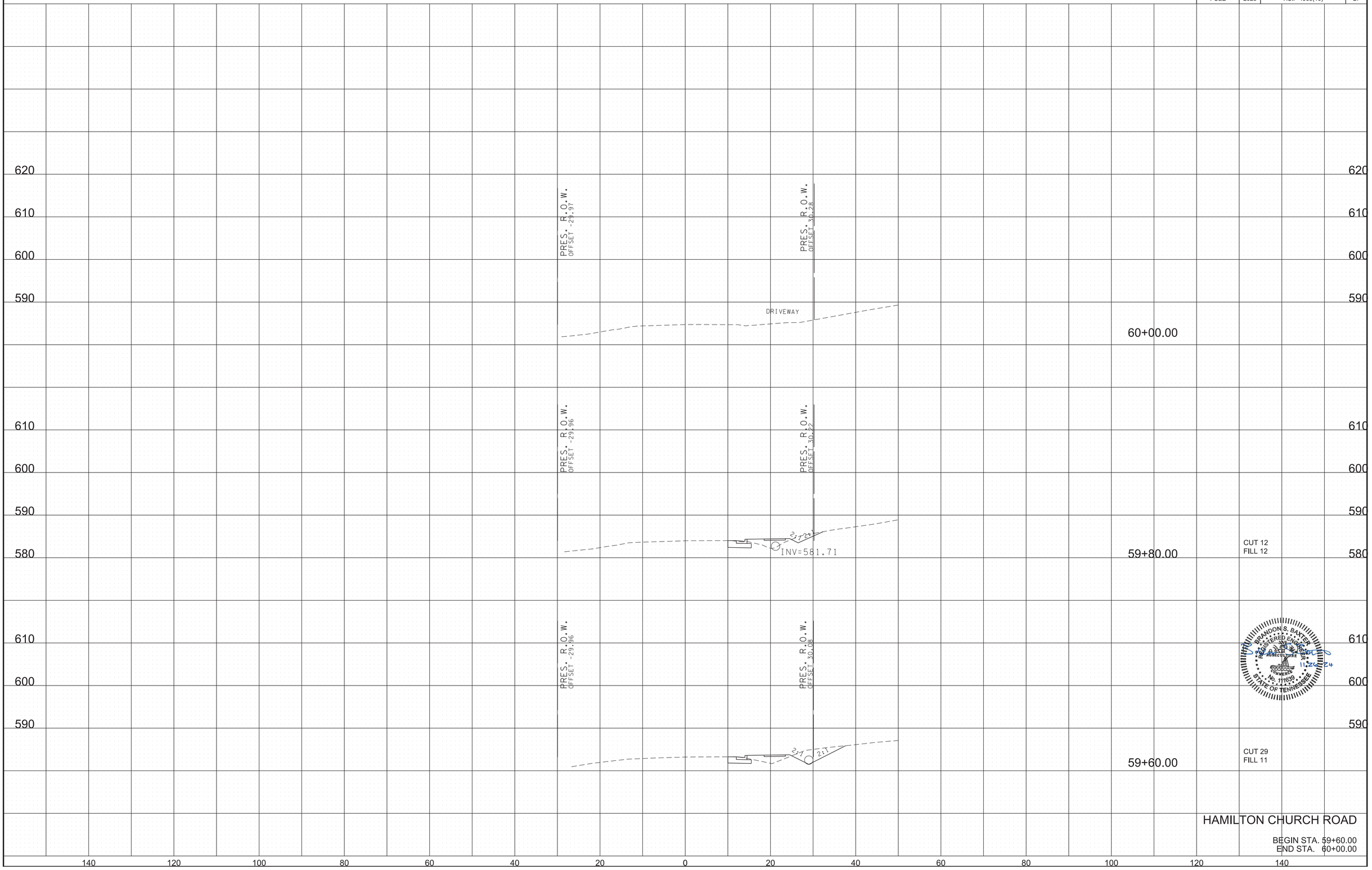
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	27
PS&E	2025	HSIP-4965(10)	27



BRANDON S. BAXTER
REGISTERED ENGINEER
STATE OF TENNESSEE
DEPARTMENT OF AGRICULTURE
No. 111699

11.20.24

HAMILTON CHURCH ROAD

BEGIN STA. 59+60.00
END STA. 60+00.00

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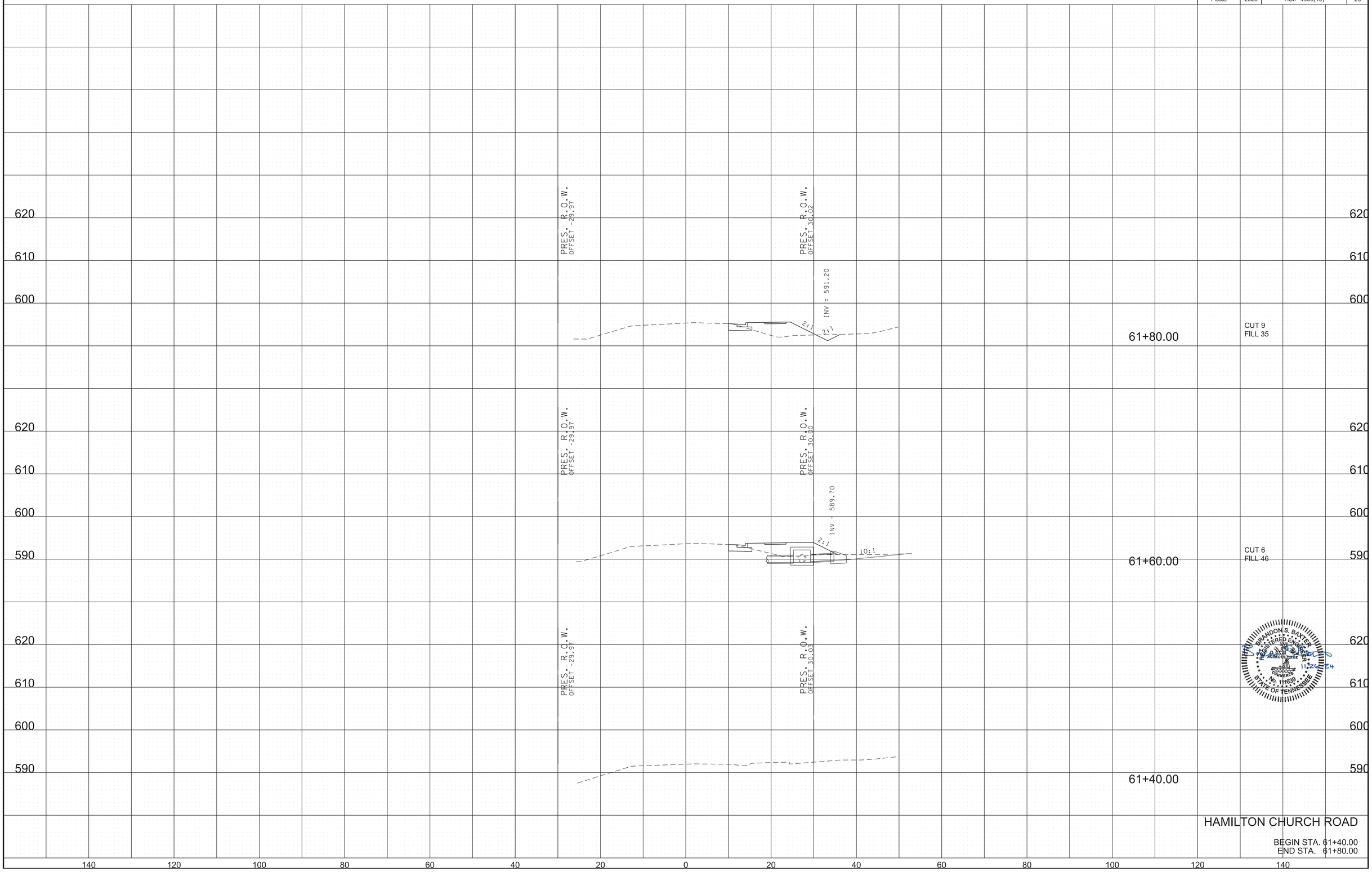
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	28
PS&E	2025	HSIP-4965(10)	28



BRANDON S. BAXTER
REGISTERED ENGINEER
AGRICULTURE
No. 111699
STATE OF TENNESSEE
11-20-24

HAMILTON CHURCH ROAD

BEGIN STA. 61+40.00
END STA. 61+80.00

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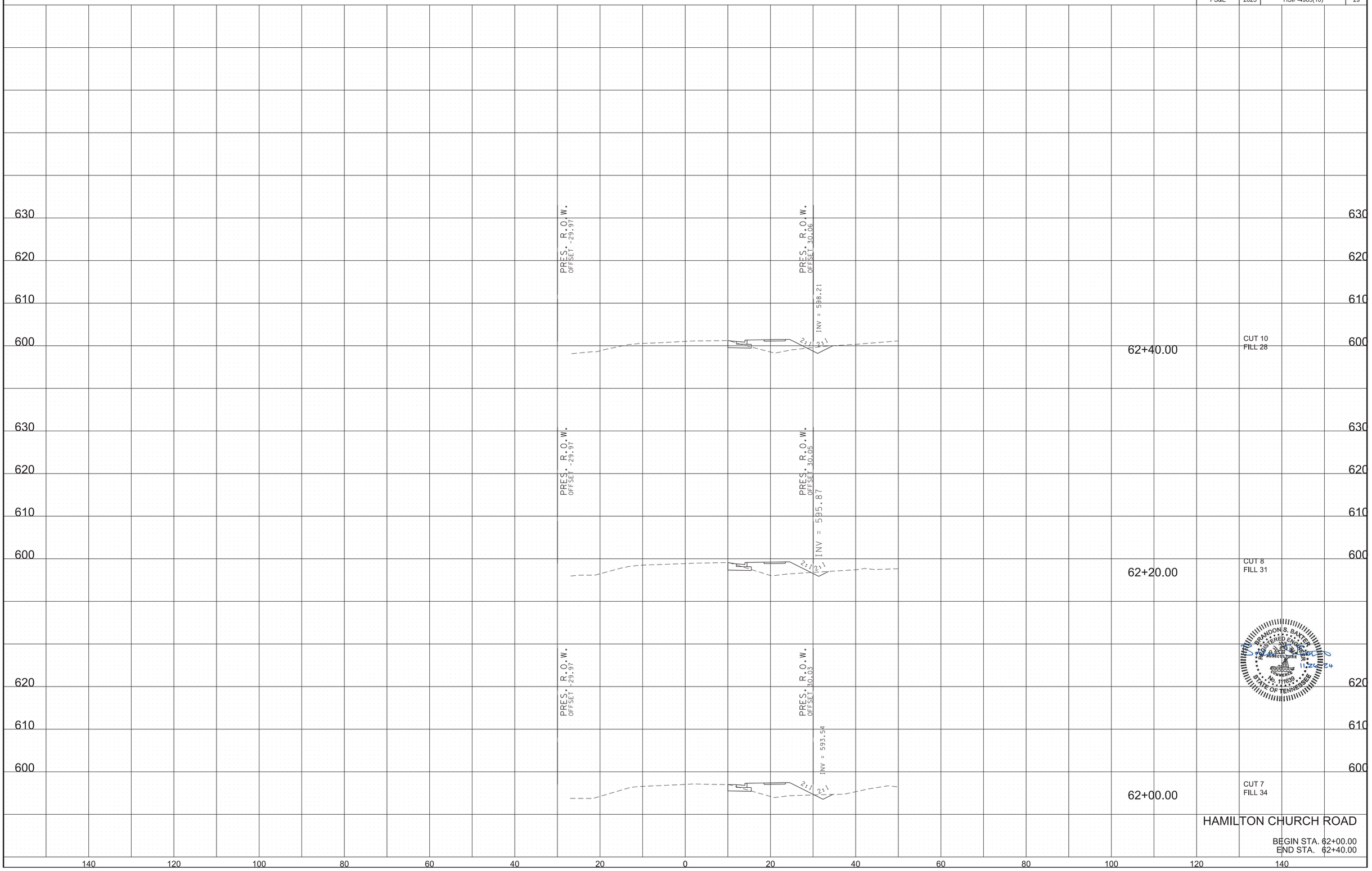
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	29
PS&E	2025	HSIP-4965(10)	29



BRANDON S. BAXTER
REGISTERED ENGINEER
STATE OF TENNESSEE
No. 111699
11-20-24

HAMILTON CHURCH ROAD

BEGIN STA. 62+00.00
END STA. 62+40.00

11/26/2024 1:00:53 PM
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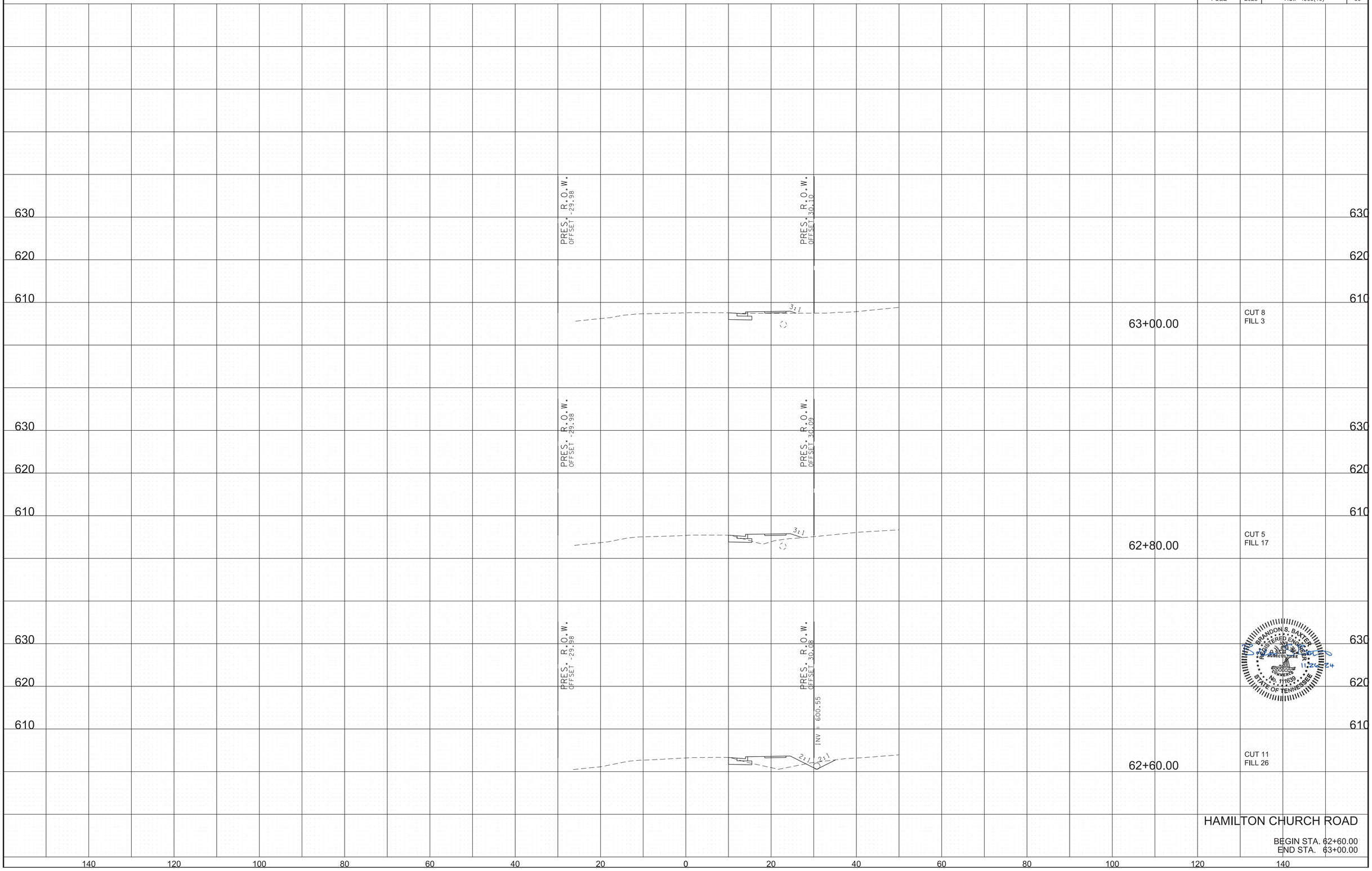
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	30
PS&E	2025	HSIP-4965(10)	30



BRANDON S. BAXTER
REGISTERED ENGINEER
STATE OF TENNESSEE
No. 111699
11-20-24

HAMILTON CHURCH ROAD

BEGIN STA. 62+60.00
END STA. 63+00.00

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	31
PS&E	2025	HSIP-4965(10)	31

PRES. R.O.W.
OFFSET -29.98

HAMILTON GLEN DRIVE

63+40.00

PRES. R.O.W.
OFFSET -29.98

PRES. R.O.W.
OFFSET 37.56

63+20.00

CUT 11
FILL 0

PRES. R.O.W.
OFFSET -29.98

PRES. R.O.W.
OFFSET 31.17

63+09.42

CUT 8
FILL 4

BRANDON S. BAXTER
REGISTERED ENGINEER
No. 111699
STATE OF TENNESSEE
11.20.24

HAMILTON CHURCH ROAD

BEGIN STA. 63+09.42
END STA. 63+40.00

640 630 620 610

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.
PS&E	2025	HSIP-4965(10)	T1
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.	.	.	.
.	.	.	.

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 1.75 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 1.75 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 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.

   a. 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.

SEALED BY

BRANDON S. BAXTER
REGISTERED ENGINEER
No. 111699
STATE OF TENNESSEE
11-26-24

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL

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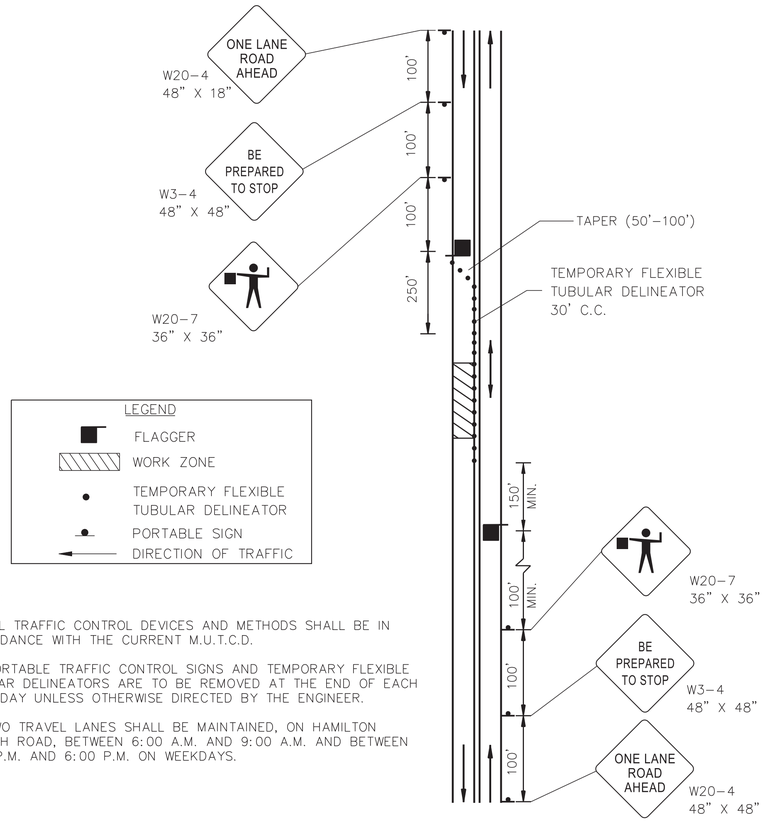


NOTES:

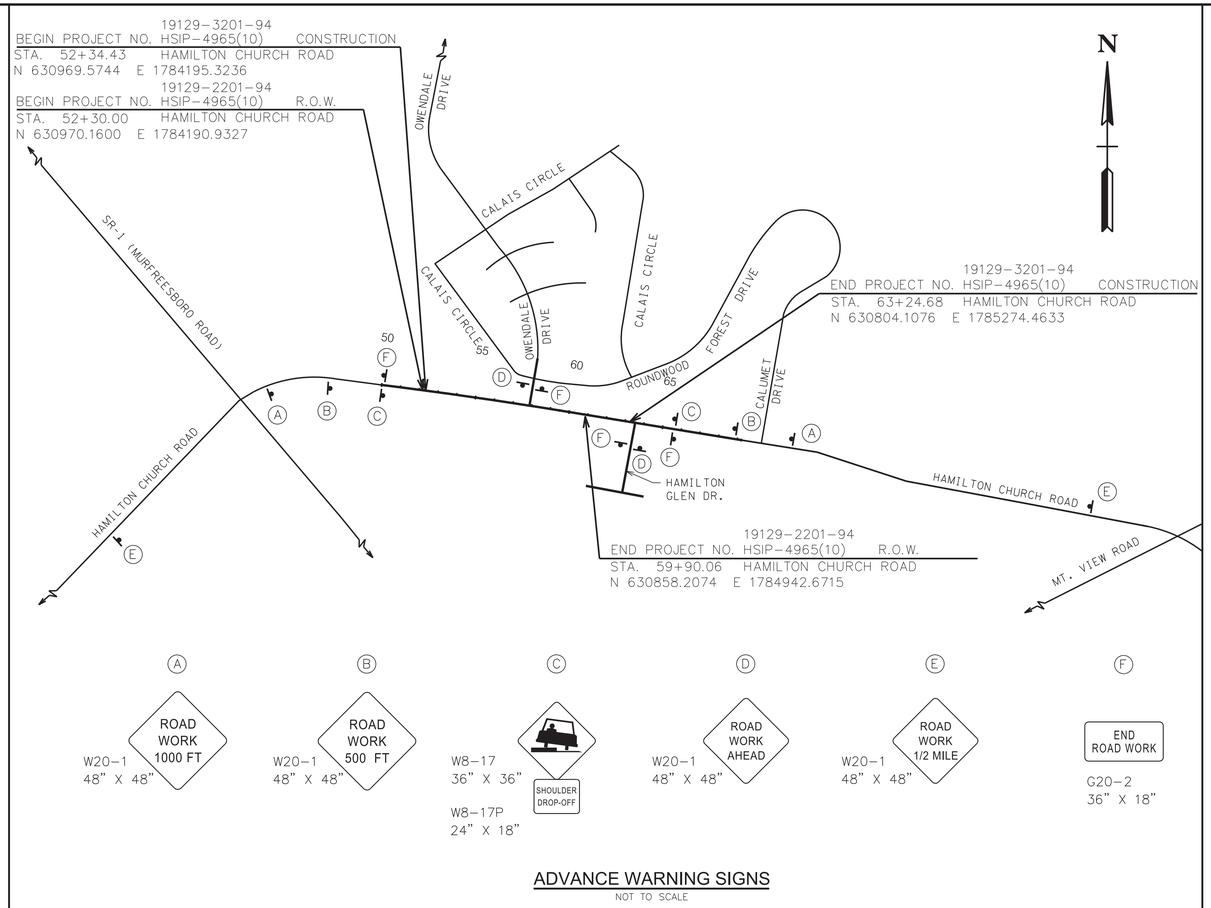
1. ALL TRAFFIC CONTROL DEVICES AND METHODS SHALL BE IN ACCORDANCE WITH THE CURRENT M.U.T.C.D.

2. PORTABLE TRAFFIC CONTROL SIGNS AND TEMPORARY FLEXIBLE TUBULAR DELINEATORS ARE TO BE REMOVED AT THE END OF EACH WORK DAY UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

3. TWO TRAVEL LANES SHALL BE MAINTAINED, ON HAMILTON CHURCH ROAD, BETWEEN 6:00 A.M. AND 9:00 A.M. AND BETWEEN 3:00 P.M. AND 6:00 P.M. ON WEEKDAYS.

TEMPORARY LANE CLOSURE ON A TWO-LANE ROAD USING FLAGGERS

NOT TO SCALE



ADVANCE WARNING SIGNS

NOT TO SCALE

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	HSIP-4965(10)	T2

TRAFFIC CONTROL QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(1)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	150
	712-01	TRAFFIC CONTROL	LS	1
	712-04.10	TEMPORARY FLEXIBLE TUBULAR DELINEATOR	EA	30
	712-06	SIGNS (CONSTRUCTION)	SF	320
(2)	712-08.03	ARROW BOARD (TYPEC)	EACH	2
(2)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	2

(1) TO BE USED FOR SHOULDER WEDGES, DRIVEWAY ACCESS, ETC.

(2) TO BE USED AS DIRECTED BY THE ENGINEER

712-06 SIGNS (CONSTRUCTION)

DESCRIPTION	UNIT	QUANTITY	SINGLE SIGN AREA (S.F.)	TOTAL AREA (S.F.)	M.U.T.C.D. SIZE	M.U.T.C.D. NO.	REMARKS
END ROAD WORK	EA	4	4.5	18	36" X 18"	G20-2	
BE PREPARED TO STOP	EA	2	16.0	32	48" X 48"	W3-4	PORTABLE
SHOULDER DROP OFF (SYMBOL	EA	2	9.0	18	36" X 36"	W8-17	
SHOULDER DROP-OFF (PLAQUE	EA	2	3.0	6	24" X 18"	W8-17P	
ROAD WORK AHEAD	EA	2	16.0	32	48" X 48"	W20-1	
ROAD WORK 1/2 MILE	EA	2	16.0	32	48" X 48"	W20-1	
ROAD WORK 1000 FT	EA	2	16.0	32	48" X 48"	W20-1	
ROAD WORK 500 FT	EA	2	16.0	32	48" X 48"	W20-1	
ONE LANE ROAD AHEAD	EA	2	16.0	32	48" X 48"	W20-4	PORTABLE
FLAGGER (SYMBOL)	EA	2	16.0	32	48" X 48"	W20-4	PORTABLE
ADDITIONAL SIGNS (AS NECESS	EA	6	9.0	54	36" X 36"		FOR USE AS DIRECTED BY THE ENGINEER
TOTAL				**320**			

SEALED BY

BRANDON S. BAXTER
REGISTERED ENGINEER
No. 119639
STATE OF TENNESSEE
11-26-24

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PHASING NOTES, LEGEND AND TABULATION

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	SIG-1
PS&E	2025	HSIP-4965(10)	SIG-1

REV. 08/08/2023: UPDATED PEDESTRIAN POLE ON NORTHEAST CORNER OF INTERSECTION TO ACCOUNT FOR PROPOSED SIDEWALK AND CURBRAMP RELOCATION.

REV. 02/12/2024: UPDATED SIGNAL LAYOUT.

REV. 08/26/2024: UPDATED SIGNAL POLE, SIGNAL HEAD, AND SPECIAL DITCH DESIGN; UPDATED TRACT 7 SLOPE EASEMENTAND CONSTRUCTION EASEMENT.

REV. 10/07/2024: UPDATED DETECTION AND SIGNAL WIRING.

CONTROLLER RING DIAGRAM

NEMA EIGHT PHASE DESIGNATIONS

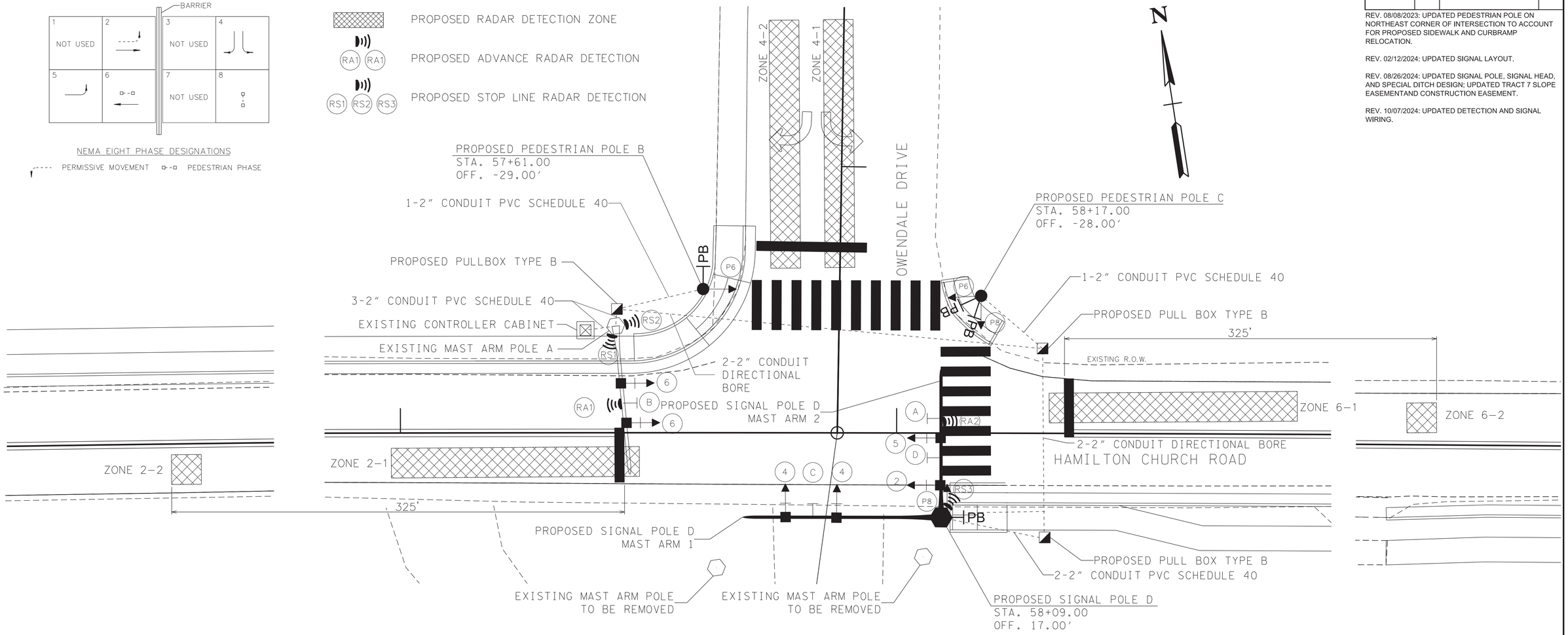
PERMISSIVE MOVEMENT PEDESTRIAN PHASE

LEGEND

PROPOSED RADAR DETECTION ZONE

RA1 RA1 PROPOSED ADVANCE RADAR DETECTION

RS1 RS2 RS3 PROPOSED STOP LINE RADAR DETECTION



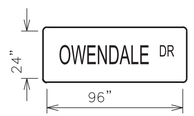
EXISTING SIGNAGE DETAILS

B

PROPOSED SIGNAGE DETAILS

C

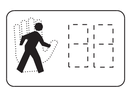
LETTER SERIES: B
MIN. 12" UPPER CASE, 9" LOWER CASE



D

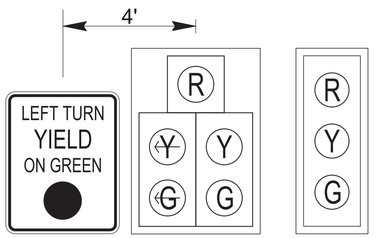
LETTER SERIES: D
MIN. 12" UPPER CASE, 9" LOWER CASE

PEDESTRIAN SIGNAL DETAILS



P6 P8

SIGNAL HEAD DETAILS



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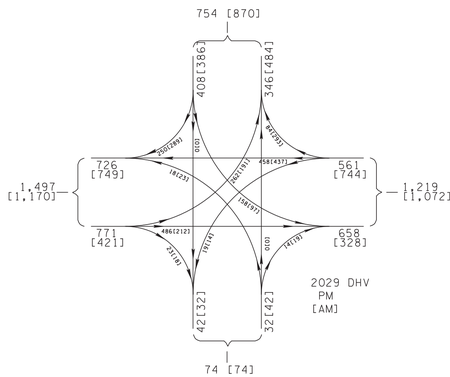

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNAL PLANS
HAMILTON CHURCH ROAD AT OWENDALE DRIVE
SCALE: 1"=10'

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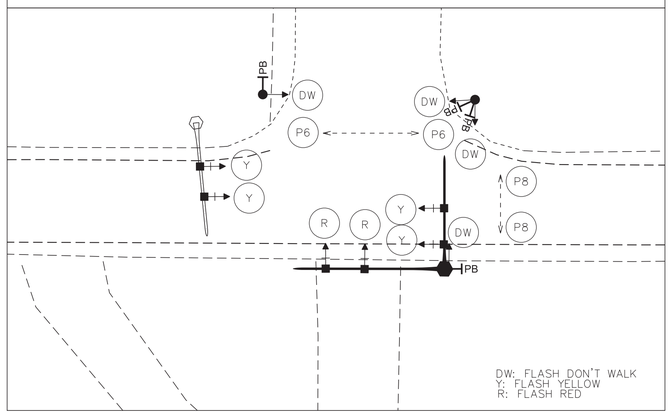
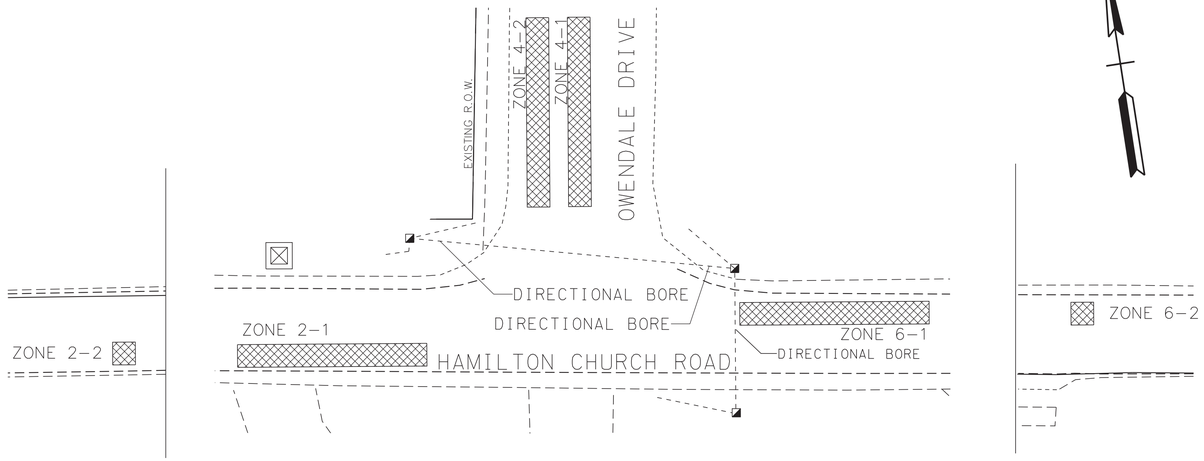
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2023	HSIP-4965(10)	SIG-2
PS&E	2025	HSIP-4965(10)	SIG-2

REV. 08/26/2024: ADDED SHEET FOR SIGNAL DETAILS.

REV. 10/07/2024: UPDATED DETECTION AND SIGNAL WIRING.

FLASHING DIAGRAM





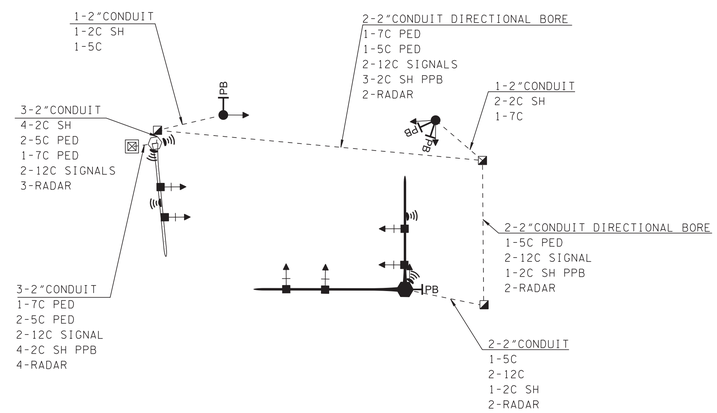
SIGNAL TIMING IS TO BE DONE BY THE NASHVILLE DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL CONTACT MIKE HIRTZER AT MICHAEL.HIRTZER@NASHVILLE.GOV A MINIMUM OF THIRTY (30) DAYS PRIOR TO ACTIVATION OF THE SIGNAL TO OBTAIN THE INITIAL TIMINGS.

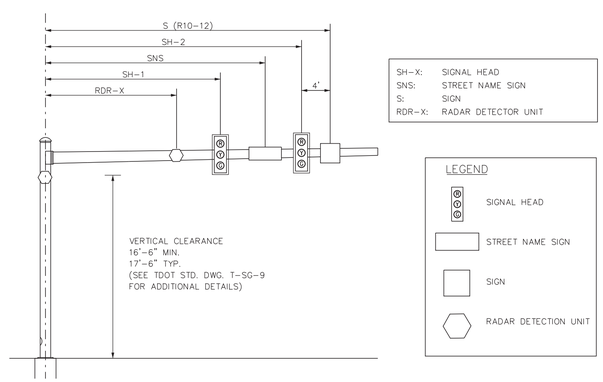
DETECTION ZONE ASSIGNMENT				
ZONE ASSIGNMENT	SIZE	DETECTION UNIT	MODE	DISTANCE FROM STOP LINE
ZONE 2-1	6'X50'	RS1	PRESENCE	-5'
ZONE 2-2	6'X6'	RA1	PULSE	325'
ZONE 4-1	6'X50'	RS2	PRESENCE	-5'
ZONE 4-2	6'X50'	RS2	PRESENCE	-5'
ZONE 6-1	6'X50'	RS3	PRESENCE	-5'
ZONE 6-2	6'X6'	RA2	PULSE	325'

SIGNAL SUPPORT POLE DATA AND MAST ARM DETAILS														
POLE NO.	STATION	OFFSET	NORTHING	EASTING	ARM	ARM LENGTH	SH-1	SH-2	SNS	S	RDR-1	RDR-2	RDR-3	GROUND EL. @ POLE
A	57+43.00	21.5' (L)	1784702.3618	630918.3216	-	Existing	12.0'	22.0'	15.5'	-	0.0'	0.0'	15.5'	571.15
B	57+61.00	29.0' (L)	1784720.9632	630922.9907	PEDESTRIAN PEDESTAL POLE									572.61
C	58+17.00	28.0' (L)	1784776.1453	630913.0490	PEDESTRIAN PEDESTAL POLE									575.47
D	58+09.00	17.0' (R)	1784761.2621	630870.1550	1	40'	21.0'	31.0'	26.0'	-	-	-	-	579.47
					2	30'	6.5'	16.0'	12.0'	20.0'	0.0'	19.5'	-	

WIRING AND CONDUIT DIAGRAM

NOTE: ONLY NEW CONDUIT AND WIRING SHOWN





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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNAL PLANS

HAMILTON CHURCH ROAD AT OWENDALE DRIVE

SCALE: 1"=20'

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TENN.	YEAR	SHEET NO.
	2025	U1-1
STATE PROJ. NO.	19129-3201-94	
FED. PROJ. NO.	HSIP-4965(10)	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

DAVIDSON COUNTY

HAMILTON CHURCH ROAD
FROM EAST OF SR-1 TO WEST OF
CALUMET DRIVE IN NASHVILLE

STATE HIGHWAY NO. N/A U.S. ROUTE NO. N/A

Index Of Sheets	
SHEET NAME	SHEET NUMBER
UTILITIES INDEX, UTILITIES OWNERS AND UTILITY SHEETS	U1-1 THRU U1-3

WITH THE EXCEPTIONS OF AT&T, METRO WATER SERVICES,
AND NES, THERE ARE NO UTILITIES IN CONFLICT WITH THIS PROJECT.

STANDARD LEGEND

EXISTING UTILITES

POWER P
TELEPHONE T
WATER W
CABLE TV C
SANITARY SEWER SA
UNDERGROUND TELEPHONE T (UG)
GAS G
FORCE MAIN SEWER FMS
UNDERGROUND POWER P (UG)
UNDERGROUND FIBER OPTIC F (UG)

POWER POLE
TELEPHONE POLE
POWER/TELEPHONE POLE
MANHOLE
WATER METER W.M.
WATER VALVE W.V.
LIGHT POLE

PROPOSED UTILITIES & MODIFICATIONS

POWER P
UNDERGROUND POWER P (UG)
TELEPHONE T
WATER W
CABLE TV C
SANITARY SEWER SA
UNDERGROUND TELEPHONE T (UG)
GAS G
FORCE MAIN SEWER FMS
UNDERGROUND FIBER OPTIC F (UG)

POWER POLE P
TELEPHONE POLE T
WATER METER W.M.

EX. WATER LINE (RETIRED IN PLACE) - 6" W RIP
EX.GAS LINE (RETIRED IN PLACE) - 8" G RIP
EX.SEWER LINE (RETIRED IN PLACE) - 8" FMS RIP
EX.TELEPHONE LINE (REMOVE or RETIRED IN PLACE) - T (UG) R or RIP - T (UG) R or RIP

R REMOVE

RIP RETIRE IN PLACE

SPECIAL NOTES

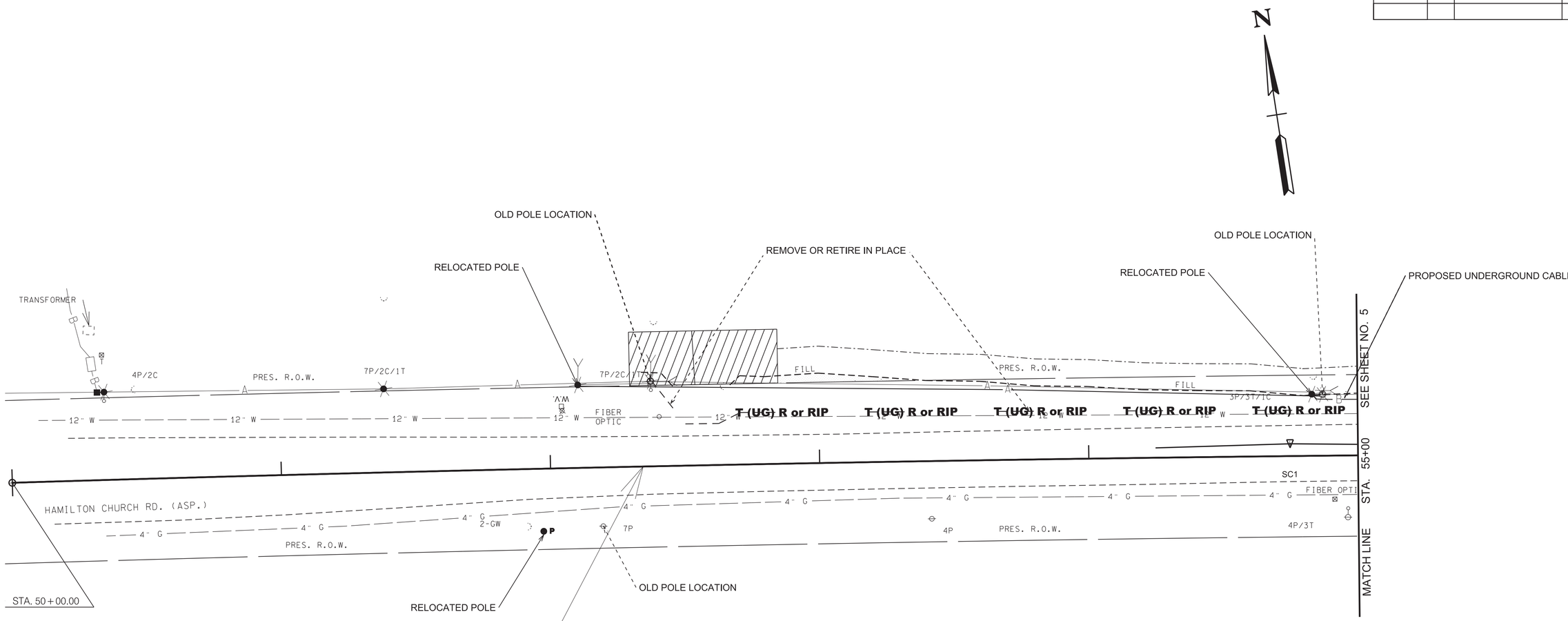
SOME UTILITIES CAN BE LOCATED BY CALLING THE
TENNESSEE ONE CALL SYSTEM, INC.
AT 1-800-351-1111

UTILITY OWNERS AND CONTACTS:

ELECTRIC: NASHVILLE ELECTRIC SERVICE 1214 CHURCH STREET NASHVILLE, TN, 37246 JON SIPES JSIPES@NESPOWER.COM O: 615-747-3529	PHONE: AT&T 116 SOUTH CANNON AVENUE MURFREESBORO, TN 37129 KENNETH LEE KORNEGAY KK4096@ATT.COM O: 615-848-2082 C:615-631-7221	FIBER: CROWN CASTLE NG CENTRAL LLC 800 OLIVER AVENUE, SUITE INDIANAPOLIS, IN 46225 JAMES WHITED JAMES.WHITED@CROWNCASTLE.COM C: 502-340-1404
CABLE: COMCAST 660 MAINSTREAM DRIVE NASHVILLE, TN 37728 GARY MCKINNEY GARY_MCKINNEY@COMCAST.COM C: 615-456-6397	GAS: PIEDMONT NATURAL GAS 83 CENTURY BOULEVARD NASHVILLE, TN 37214 SCOTT HAZZARD SCOTTY.HAZZARD@DUKE-ENERGY.COM C: 615-714-2389	FIBER: GOOGLE FIBER 1101 MCGAVOCK ST, SUITE #200 NASHVILLE, TN, 37203 RICK BOLTON BOLTONR@GOOGLE.COM O: 629-888-2258 C:512-949-7428
WATER: METRO WATER & SEWER SERVICES SEWER: 1600 SECOND AVENUE NORTH NASHVILLE, TN 37208 GEORGE REAGAN GEORGE.REAGAN@NASHVILLE.GOV O: 615-862-4572 C: 615-917-0275	GAS: COLONIAL PIPELINE CO 1185 SANCTUARY PARKWAY, SUITE 100 ALPHARETTA, GA 30009 ROBERT JACK RJACK@COLPIPE.COM O: 678-223-5020	ELECTRIC: TVA 1101 MARKET ST MR-4G CHATTANOOGA, TN, 37402 STEPHEN WILLIAMS SEWILLIAMS@TVA.GOV O: 662-255-6272

NOTE TO CONTRACTORS	UNDERGROUND UTILITIES NOTE	NOTE TO CONTRACTORS
CONTRACTOR TO FOLLOW ALL ADA RULES PERTAINING TO SIDEWALKS	ALL UNDERGROUND UTILITIES MUST BE DIRECTIONAL BORED UNDER ALL STREAMS IDENTIFIED IN THE PLANS	DIRECTIONAL BORING MUST BE PLACED A MINIMUM OF 50' AWAY FROM STREAM BANKS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	HSIP-4965(10)	U1-2



19129-3201-94

BEGIN PROJECT NO. HSIP-4965(10) CONSTRUCTION

STA. 52+34.43 HAMILTON CHURCH ROAD

N 630969.5744 E 1784195.3236

SEALED BY

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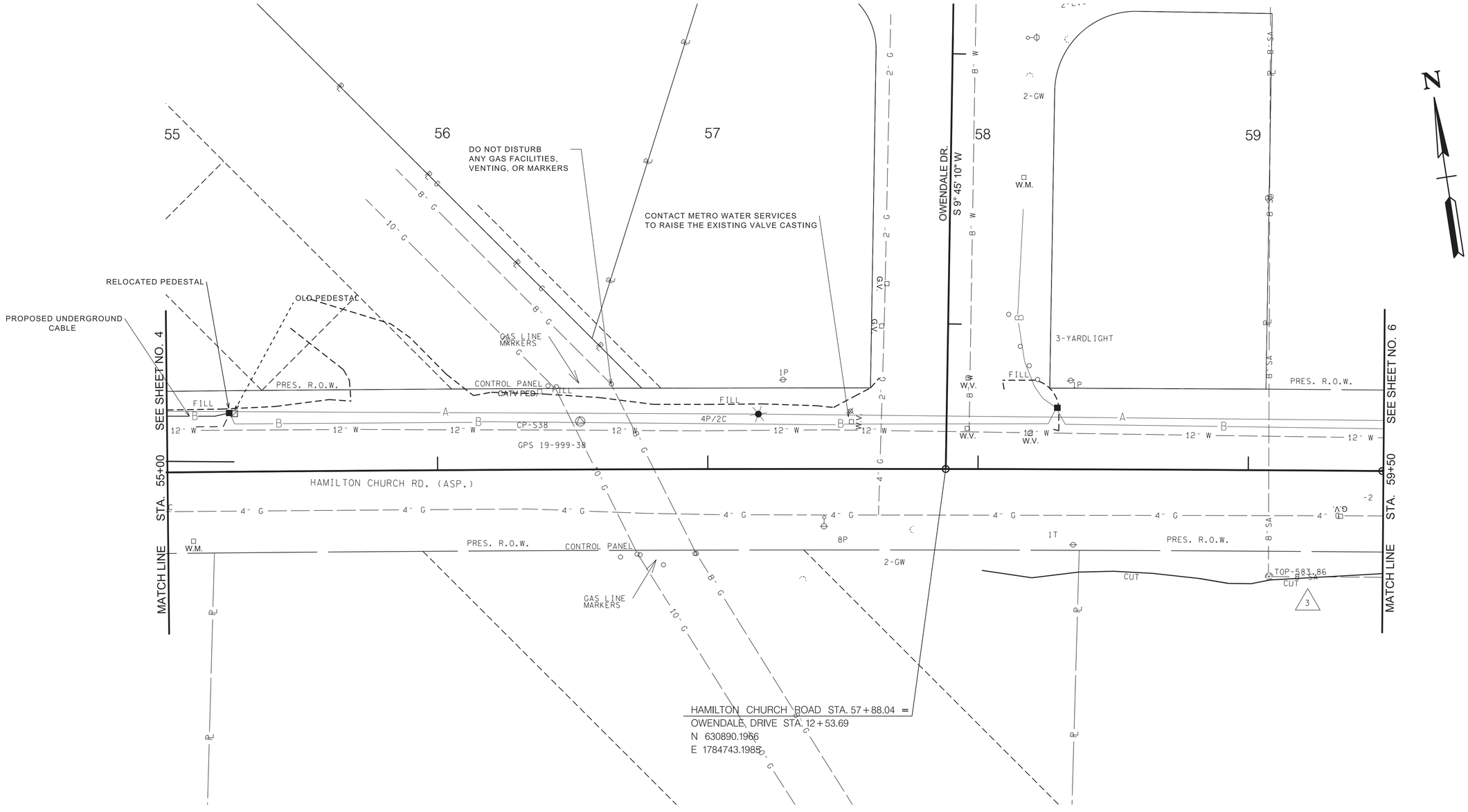
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY SHEET

STA. 52+34.43 TO STA. 55+00

SCALE: 1"= 20'

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	HSIP-4965(10)	U1-3



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

UTILITY SHEET

STA. 55+00 TO STA. 59+50
SCALE: 1"= 20'