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Drake E Danley	2025.0
	-05'00'

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KIMLEY-HORN AND ASSOCIATES, INC.
6750 POPLAR AVENUE
SUITE 600
MEMPHIS, TENNESSEE 38138
DRAKE E. DANLEY, P.E. NO. 105240

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-SIGN-2
ESTIMATED ROADWAY QUANTITIES	2

SHEET NO

SIGNATURE SHEET ROADWAY-SIGN-2

ESTIMATED ROADWAY QUANTITIES2

YEAR	PROJECT NO.	SHEET NO.
2025	17005-3220-04	ROADWAY-SIGN-2

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

K:\MEM_Roadway\115004100 - Project Mallard\Cadd\Plans\002 - Estimated Quantities.dgn 6/19/2025 1:43:45 PM

ESTIMATED ROADWAY QUANTITIES					
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 17005-1220-04	QUANTITY Non-Participating	TOTAL QUANTITY
105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1		1
108-03	CPM PROJECT SCHEDULE	LS	1		1
201-01	CLEARING AND GRUBBING	LS	1		1
4, 5					
202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1		1
202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	8880	485	9365
28	202-04.04 REMOVAL OF STRUCTURES (EXIST. BR. ID NO. 17SR0760001)	LS	1		1
3, 7	203-01 ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	103315	688	104003
3	203-03 BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	276408	15	276423
	203-06 WATER	M.G.	2210		2210
26	203-07 FURNISHING & SPREADING TOPSOIL	C.Y.	811		811
	204-08 FOUNDATION FILL MATERIAL	C.Y.	599		599
2	209-05 SEDIMENT REMOVAL	C.Y.	1078		1078
2, 29	209-08.02 TEMPORARY SILT FENCE (WITH BACKING)	L.F.	6356	422	6778
2	209-08.03 TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	3952		3952
2	209-08.05 ENHANCED SILT FENCE CHECK (V-DITCH)	EACH	2		2
2	209-08.08 ENHANCED ROCK CHECK DAM	EACH	9		9
1, 2	209-09.01 SANDBAGS	BAG	300		300
2	209-09.03 SEDIMENT FILTER BAG (15' X 15')	EACH	2		2
2	209-09.43 CURB INLET PROTECTION (TYPE 4)	EACH	18	6	24
1	209-20.03 POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	500		500
2	209-40.30 CATCH BASIN PROTECTION (TYPE A)	EACH	2		2
2	209-40.33 CATCH BASIN PROTECTION (TYPE D)	EACH	8		8
2	209-40.34 CATCH BASIN PROTECTION (TYPE E)	EACH	3		3
2	209-40.41 CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	1		1
2	209-40.43 CATCH BASIN FILTER ASSEMBLY(TYPE 3)	EACH	1		1
2	209-40.44 CATCH BASIN FILTER ASSEMBLY(TYPE 4)	EACH	4		4
2	209-40.46 CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	11	4	15
2	209-40.47 CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH	4		4
2	209-65.03 TEMPORARY DIVERSION CHANNEL	L.F.	737		737
	303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	27944	539	28483
	303-01.01 GRANULAR BACKFILL (ROADWAY)	TON	15976		15976
15	303-02 MINERAL AGGREGATE, TYPE B BASE, GRADING D	TON	500		500
2, 25	303-10.01 MINERAL AGGREGATE (SIZE 57)	TON	9483		9483
	307-01.01 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	3416		3416
11	307-01.08 ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	3717	89	3806
	402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	43	2	45
1	402-02 AGGREGATE FOR COVER MATERIAL (PC)	TON	156	4	160
	403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	16	1	17
	407-20.05 SAW CUTTING ASPHALT PAVEMENT	L.F.	380	60	440
11	411-01.10 ACS MIX(PG64-22) GRADING D	TON	2069	52	2121
	411-12.02 SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	L.M.	0.75		0.75
	604-01.01 CLASS A CONCRETE (ROADWAY)	C.Y.	1447		1447
	604-01.02 STEEL BAR REINFORCEMENT (ROADWAY)	LB.	205347		205347
10	604-02.01 CLASS A CONCRETE (BOX CULVERT)	C.Y.	3187		3187
	604-02.02 STEEL BAR REINFORCEMENT (BOX CULVERT)	LB.	342141		342141
9	607-03.02 18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	927	210	1137
9	607-05.02 24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	841		841
9	607-06.02 30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	203		203
9	607-07.02 36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	43		43
9	607-08.02 42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	82		82
9	607-10.02 54" CONCRETE PIPE CULVERT (CLASS III)	L.F.	98		98

ESTIMATED ROADWAY QUANTITIES					
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 17005-1220-04	QUANTITY Non-Participating	TOTAL QUANTITY
611-01.04	MANHOLES, > 12' - 16' DEPTH	EACH	1		1
611-01.21	REWORK MANHOLE	EACH	3		3
611-02.16	JUNCTION BOX (TYPE 4)	EACH	1		1
611-07.01	CLASS "A" CONCRETE (PIPE ENDWALLS)	C.Y.	10		10
611-07.02	STEEL BAR REINFORCING (PIPE ENDWALLS)	LB.	405		405
611-07.32	24IN ENDWALL (SIDE DRAIN)	EACH	1		1
611-07.33	30IN ENDWALL (SIDE DRAIN)	EACH	1		1
611-07.56	18IN ENDWALL (CROSS DRAIN) 6:1	EACH	4		4
611-07.57	24IN ENDWALL (CROSS DRAIN) 3:1	EACH	6		6
611-07.65	36IN ENDWALL (CROSS DRAIN) 3:1	EACH	1		1
19	611-09.02 REWORK CATCHBASIN	EACH	1		1
	611-10.01 CATCH BASINS, TYPE 10, 0' - 4' DEPTH	EACH	1		1
	611-12.01 CATCH BASINS, TYPE 12, 0' - 4' DEPTH	EACH	1	1	2
	611-12.02 CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	9	3	12
	611-14.02 CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH	4		4
	701-01.01 CONCRETE SIDEWALK (4 ")	S.F.	21213	1307	22520
	701-02.03 CONCRETE CURB RAMP	S.F.	1007	113	1120
	702-03 CONCRETE COMBINED CURB & GUTTER	C.Y.	253	32	285
	703-01 PORTLAND CEMENT CONCRETE DITCH PAVING	C.Y.	94		
	705-04.09 EARTH PAD FOR TYPE 38 GR END TREATMENT	EACH	4		4
	705-06.01 W BEAM GR (TYPE 2) MASH TL3	L.F.	413		413
	705-06.20 TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	4		4
	705-06.25 THRIE BEAM BRIDGE TRANSITION MASH TL-3	EACH	4		4
2	707-08.11 HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	518		518
	708-02.01 MARKERS (CONCRETE R.O.W. POSTS)	EACH	37		37
21	709-05.05 MACHINED RIP-RAP (CLASS A-3)	TON	786		786
8, 27	709-05.06 MACHINED RIP-RAP (CLASS A-1)	TON	754		754
22	709-05.07 MACHINED RIP-RAP (CLASS A-2)	TON	178		178
20	709-05.08 MACHINED RIP-RAP (CLASS B)	TON	826		826
15	712-01 TRAFFIC CONTROL	LS	1		1
15	712-02.02 INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	487		487
15, 23	712-02.60 TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	4		4
15	712-04.01 FLEXIBLE DRUMS (CHANNELIZING)	EACH	40		40
15	712-05.01 WARNING LIGHTS (TYPE A)	EACH	40		40
15	712-05.03 WARNING LIGHTS (TYPE C)	EACH	40		40
15	712-06 SIGNS (CONSTRUCTION)	S.F.	721	54	775
15	712-07.03 TEMPORARY BARRICADES (TYPE III)	L.F.	180	60	240
15	712-08.03 ARROW BOARD (TYPE C)	EACH	3		3
15	712-09.04 REMOVABLE PAVEMENT MARKING (STOP LINE)	L.F.	13		13
15	712-09.09 REMOVABLE PAVEMENT MARKING (4" LINE)	L.F.	875	36	911
	713-02.21 SIGN POST DELINEATION ENHANCEMENT	LF	77		77
	713-11.01 "U" SECTION STEEL POSTS	LB.	408		408
	713-11.02 PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	1148		1190
	713-13.02 FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	277		282
	713-13.03 FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	8		8
4, 5	713-15 REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1		1
	713-16.01 CHANGEABLE MESSAGE SIGN UNIT	EACH	6		6

TYPE	YEAR	PROJECT NO.	SHEET NO.
PIH	2024	17005-3220-04	2
PS&E	2025	17005-3220-04	2

REV. 06-19-25 ADDED ITEM NO. 108-03. REVISED QUANTITY FOR ITEM NO. 307-01.08.

SEALED BY



COORDINATE VALUES ARE NAD 83 (2011).ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006, AND TIED TO TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988 USING THE GEOID 12B MODEL, OBTAINED ON 05-07-20.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
ROADWAY
QUANTITIES
SHEET 1 OF 2