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Kodi L Berger
2025.03.18 11:51:28-04'00'

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KIMLEY-HORN AND ASSOCIATES, INC.
4525 MAIN STREET
SUITE 1000
VIRGINIA BEACH, VA 23462
KODI L. BERGER, P.E. NO. 129688

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	NH-1(424)	LIGHTING-SIGN2

S.R.1
REV. 03/05/25: ADDED SHEET.

SHELBY

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

LIGHTING INDEX

SIGNATURE SHEET LIGHTING-SIGN2
ESTIMATED LIGHTING QUANTITIES, SPECIAL NOTES, & SHEET INDEX L-1
LIGHTING DETAILS (POLE DATA)..... L-3 – L-7

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
SIGNATURE SHEET

3/18/2025 11:15:08 AM
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LIGHTING INDEX

SIGNATURE SHEET	LIGHTING-SIGN1
SIGNATURE SHEET	LIGHTING-SIGN2
ESTIMATED LIGHTING QUANTITIES, SPECIAL NOTES, & SHEET INDEX	L-1
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LIGHTING NOTES:

1. INSTALLATION AND MATERIALS SHALL COMPLY WITH SECTIONS 714 AND 917 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JANUARY 1, 2021 AND WITH THE LATEST REVISIONS TO THE NATIONAL ELECTRICAL CODE, NFPA 70.
2. ALL INCIDENTAL EQUIPMENT AND MATERIAL REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS WORK SHALL BE FURNISHED IN 714 ITEMS WHETHER SPECIFICALLY NOTED OR NOT.
3. LIGHT STANDARDS SHALL BE ROUND TAPERED POLES. LENGTH SHALL BE DETERMINED BY REQUIRED MOUNTING HEIGHT.
4. THE GROUND WIRE SHALL BE RUN INSIDE THE CONDUIT WITHIN STRUCTURES, SHALL BE SOLID COPPER, COLORED GREEN AND USE-2 RUGGEDIZED INSULATION.
5. ALL LIGHT POLES SHALL HAVE A HAND HOLE AND SHALL BE INSTALLED SO THAT THE HAND HOLE IS ORIENTED OPPOSITE THE FLOW OF TRAFFIC.
6. ALL CONDUIT SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE NOTED IN THE PLANS.
7. FOR DIRECTIONAL BORING, USE ONLY POLYETHYLENE PIPE. NO SEAMS ARE PERMITTED. CONTRACTOR SHALL USE POLYETHLYENE PIPE ADHESIVE AT JUNCTIONS.
8. POLES MAY BE ADJUSTED 5'. ANY ADJUSTMENT GREATER THAN 5' SHALL BE APPROVED BY THE ENGINEER.
9. ALL ODD POLE NUMBER DESIGNATIONS ARE ASSOCIATED WITH SB LUMINAIRES. ALL EVEN POLE NUMBER DESIGNATIONS ARE ASSOCIATED WITH NB LUMINAIRES.
10. ALL LUMINAIRES TO BE MOUNTED ON ASSOCIATED POLES AT 30 FEET. REFER TO INSTALLATION DETAILS FOR HEIGHT OF FIXTURE ABOVE ROADWAY.
11. ALL CONDUITS TO BE INSTALLED UNDER DRIVEWAYS NOT SHOWN AS BORED ARE TO BE SAW CUT.
12. STANDARDS SHALL BE DESIGNED IN ACCORDANCE WITH THE AMERICAN ASSOCIATION OF HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, FIRST EDITION (2015 AND THE UPDATED REVISIONS) THAT REQUIRE THE BASIC WIND SPEED SHALL BE 120 MPH FOR EXTREME 1 LIMIT STATE (SEE SP700SIG) AND SHALL SUPPORT A 62-POUND LUMINAIRE.
13. LIGHTING CONDUITS IN OR ON THE PROPOSED BRIDGES ARE INCLUDED IN THE BRIDGE PLANS AND QUANTITIES SUMMARY. REFER TO THE BRIDGE PLANS FOR LIGHTING CONDUITS ON BRIDGES.

MLGW WIRING DESIGN:

1. CONDUIT RUNS MAY BE INSTALLED IN THE SAME TRENCH. COORDINATE WITH CONTRACTOR RESPONSIBLE FOR INSTALLING TRAFFIC SIGNAL FIBER OPTIC CABLE FOR COLLOCATING CONDUITS IN THE SAME TRENCH.
2. CONDUIT BENDS SHALL NOT EXCEED A 24" RADIUS.
3. AT BRIDGES, ALL SPLICES SHALL BE IN BRIDGE JUNCTION BOXES, PULLBOXES, OR HANDHOLES USING MLGW APPROVED CONNECTORS, OR MOLES AND TAP KITS.
4. DURING THE INSTALLATION OF ANY CABLE, THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE CONDUCTORS, INSULATION, OR OUTER COVERING. THE LENGTH OF CABLE INSTALLED SHALL NOT CAUSE EXCESSIVE STRESS ON THE CONDUCTORS OR ANY PART OF THE CABLE. AN INSERT LUBRICANT APPROVED BY MLGW SHALL BE USED IN PLACING CABLE IN CONDUIT.
5. ALL WIRES RUN IN CONDUIT SHALL BE SOLID COPPER AND USE-2 RUGGEDIZED INSULATION.
6. OVERHEAD CONDUCTOR SIZES PROVIDED IN CONDUIT SCHEDULE ARE MINIMUM GAUGES, WIRE SIZES MAY BE INCREASED BY MLGW.
7. PULL BOX AND COVER SHALL BE MADE IN ACCORDANCE WITH MLGW MATERIAL STANDARDS. SEE MATERIAL STANDARDS 41-0260A.

LIGHTING DESIGN STANDARDS

DRAWING	DESCRIPTION
41-0206A	PRECAST CONCRETE ELECTRIC STREETLIGHT PULL BOX (MLGW)
43-0638	FIFTEEN FOOT TRUSS TYPE STEEL LUMINAIRE SUPPORT (MLGW)
43-0670	STREET LIGHT BRACKET HIGH RISE 2" X 6'-0 WITH SIMPLEX ATTACHMENTS (GALVANIZED) (MLGW)
500.30	GALVANIZED STEEL POLE INSTALLATION WITH 15' OR 6' BRACKET ARM AND HORIZONTAL LUMINAIRE (MGLW)
T-SG-9	DETAILS OF CANTILEVER SIGNAL SUPPORT (TDOT)
T-L-1	STANDARD LIGHTING FOUNDATION DETAILS (TDOT)
T-L-2	FOUNDATION DETAIL FOR LUMINAIRE MOUNTED ON CONCRETE MEDIAN BARRIER (TDOT)

ESTIMATED ROADWAY LIGHTING QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
2	714-03 JACKED OR BORED CONDUIT	L.F.	1,300
	714-03.01 DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	L.F.	10,988
7	714-05.04 PULL BOXES (TYPE C)	EACH	111
	714-06.03 CABLE (1/C # 10 AWG)	L.F.	11,280
	714-06.04 CABLE (1/C # 8 AWG)	L.F.	17,345
	714-06.05 CABLE (1/C # 6 AWG)	L.F.	14,280
	714-08.09 LIGHT STANDARDS (30' M.H. WITH A 15' ARM)	EACH	58
	714-08.10 LIGHT STANDARDS (30' M.H. WITH A 6' ARM HIGH RISE, BRIDGE MOUNTED)	EACH	8
	714-08.28 FOUNDATION FOR LIGHT STANDARDS - ROADWAY (30' STANDARD)	EACH	58
5	714-10.01 OVERHEAD CONDUCTORS (1/C #12 AWG)	L.F.	2,750
5	714-10.02 OVERHEAD CONDUCTORS (1/C #10 AWG)	L.F.	3,350
5	714-10.03 OVERHEAD CONDUCTORS (1/C #8 AWG)	L.F.	5,610
6	714-14.01 MASTARM - 15'	EACH	41
	714-09.47 LUMINAIRES (150W LED)	EACH	108
1,6,8	714-09.48 LUMINAIRES (200W LED)	EACH	9
4			
	714-25.01 ELECTRICAL CONNECTION (PSA & PSB)	LS	1
	714-25.02 ELECTRICAL CONNECTION (PSC)	LS	1
	714-25.03 ELECTRICAL CONNECTION (PSD & PSE)	LS	1
	714-25.04 ELECTRICAL CONNECTION (PSF & PSG)	LS	1
	714-25.05 ELECTRICAL CONNECTION (PSH, PSI, PSJ)	LS	1
3			
	714-25.22 INSTALL SVC RISER (30')	EACH	17

FOOTNOTES - LIGHTING	
(1)	LUMINAIRE ARMS REQUIRED FOR SIGNAL-MOUNTED LUMINAIRES ARE INCLUDED IN THE SIGNAL POLE QUANTITIES.
(2)	LIGHTING CONDUIT FOR INSTALLATION UNDER ROADWAYS, DIRECTIONAL BORING ONLY
(3)	LIGHTING CONDUIT TO BE INSTALLED ON WOOD UTILITY POLES.
(4)	ELECTRICAL CONNECTION TO INCLUDE: -(1) LIGHTING CIRCUIT BREAKER/DISCONNECT (20A) -30 L.F. 2" METAL CONDUIT RISER FOR CONDUCTOR INSTALLATION -4 L.F. 3/4" NONMETALLIC CONDUIT FOR GROUNDING -COORDINATION WITH AND PAYMENT TO MLGW FOR CONNECTION CIRCUIT BREAKER/DISCONNECT TO OVERHEAD POWER -(1) GROUND ROD ASSEMBLY AND CONNECTION ELECTRICAL CONNECTION TO BE PROVIDED BY: MEMPHIS LIGHT, GAS, AND WATER CONTACT: ANGEL BAILEY OFFICE PHONE: (901) 528-4186 EMAIL: ADABNEY@MLGW.ORG
(5)	OVERHEAD CONDUCTORS TO BE INSTALLED BY MGLW. CONTRACTOR TO COORDINATE WITH MLGW FOR INSTALLMENT AND PAYMENT.
(6)	LUMINAIRES AND ARMS TO BE INSTALLED ON WOOD POLES ARE TO BE INSTALLED BY MLGW. CONTRACTOR TO COORDINATE WITH MLGW FOR INSTALLATION AND PAYMENT.
(7)	#6 AWG CONDUCTORS TO BE INSTALLED AS GROUND CONDUCTOR FOR ALL UNDERGROUND CIRCUITS.
(8)	FIXTURES WITH THE FOLLOWING SPECIFICATIONS SHALL BE USED IN THIS PROJECT: 150W LED EQUIVALENT COBRA HEAD: LEOTEK GCJ3-30J-MV-30K-2F-GY-095-MLGW 200W EQUIVALENT COBRA HEAD: COOPER LIGHTING VERD-CA2-110-730-T2-AP-20MSP-PR7-U148032 CONTACT MLGW FOR APPROVAL OF FIXTURE SPECIFICATIONS PRIOR TO ORDERING.
(9)	SEE STANDARD DRAWING T-L-1.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2023	NH-1(424)	L10
PS&E	2025	NH-1(424)	L-1

S.R.1 SHELBY
REV. 03/05/25: ADDED LIGHTING-SIGN2 TO THE INDEX. MODIFIED FIXTURE SPECIFICATIONS AND UPDATED CONTACT IN FOOTNOTE (4) .

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3/18/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED LIGHTING
QUANTITIES, SPECIAL
NOTES, & SHEET INDEX

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2023	NH-1(424)	L12
PS&E	2025	NH-1(424)	L-3

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REV. 03/05/25: MODIFIED FIXTURE SPECIFICATIONS.

BRIDGE LIGHT POLE SUMMARY TABLE																		
LIGHT POLE NO.	SHEET NO.	LUM. WATTAGE (LED)	VOLTAGE (V)	NO. OF LAMPS	SERVICE POLE	SERVICE POLE STATION	SERVICE CONNECTION TYPE	CIRCUIT NO.	MOUNTING HEIGHT (FT)	ARM LENGTH (FT)	ARM RISE (HIGH/LOW)	STANDARD DETAIL(S)	NORTHING	EASTING	BASELINE	STATION	OFFSET (FT)	SIDE
LP 300	L-10	A	240	1	PSB	39+02.27	BRIDGE	2	30	6	HIGH	STD 500.30	323356.5400	808241.6800	SUMMER AVE.	54+47.92	55.1	RT
LP 301	L-10	A	240	1	LP 107 - PSA	37+38.68	BRIDGE	3	30	6	HIGH	STD 500.30 43-0670	323424.6000	808172.3400	SUMMER AVE.	54+47.98	41.9	LT
LP 302	L-10	A	240	1	PSB	39+02.27	BRIDGE	2	30	6	HIGH	STD 500.30	323503.2800	808385.9200	SUMMER AVE.	56+53.96	55.2	RT
LP 303	L-10	A	240	1	LP 107 - PSA	37+38.68	BRIDGE	3	30	6	HIGH	STD 500.30	323571.6000	808317.0800	SUMMER AVE.	56+53.81	41.9	LT
LP 304	L-10	A	240	1	PSB	39+02.27	BRIDGE	2	30	6	HIGH	STD 500.30 43-0670	323650.0700	808530.4500	SUMMER AVE.	58+60.11	55.0	RT
LP 305	L-10	A	240	1	LP 107 - PSA	37+38.68	BRIDGE	3	30	6	HIGH	STD 500.30 43-0670	323718.1300	808461.2900	SUMMER AVE.	58+60.01	41.8	LT
LP 707	L-14	A	240	1	PSF	94+28.83	BRIDGE	11	30	6	HIGH	STD 500.30 43-0670	326742.2200	811294.0500	SUMMER AVE.	100+06.53	54.9	LT
LP 708	L-14	A	240	1	PSG	94+54.18	BRIDGE	8	30	6	HIGH	STD 500.30 43-0670	326668.6200	811375.8200	SUMMER AVE.	100+06.51	55.0	RT

WATTAGE "A" (150) BASED ON OFFSET FIXTURES USED IN DESIGN:
150W LED EQUIVALENT COBRA HEAD: LEOTEK GCJ3-30J-MV-30K-2F-GY-095-MLGW
WATTAGE "B" (200) BASED ON FIXTURES USED IN DESIGN:
200W EQUIVALENT COBRA HEAD: COOPER LIGHTING VERD-CA2-110-730-T2-AP-20MSP-PR7-U148032

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3/18/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS
(POLE DATA)
(1 of 5)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2021	NH-1(424)	L13
PS&E	2025	NH-1(424)	L-4

S.R.1SHELBY

REV. 03/05/25: MODIFIED FIXTURE SPECIFICATIONS.

LUMINAIRES ON SIGNAL POLE SUMMARY TABLE																		
LIGHT POLE NO.	SHEET NO.	LUM. WATTAGE (LED)	VOLTAGE (V)	NO. OF LAMPS	SERVICE POLE	SERVICE POLE STATION	SERVICE CONNECTION TYPE	CIRCUIT NO.	MOUNTING HEIGHT (FT)	ARM LENGTH (FT)	ARM RISE (HIGH/LOW)	STANDARD DETAIL(S)	NORTHING	EASTING	BASELINE	STATION	OFFSET (FT)	SIDE
LP 100	L-8	A	240	1	LP 107 - PSA	37+38.68	UNDERGROUND	1	30	15	N.A.	T-SG-9	322005.8500	806922.5700	SUMMER AVE.	35+60.60	62.2	RT
LP 102	L-8	A	240	1	LP 107 - PSA	37+38.68	UNDERGROUND	1	30	15	N.A.	T-SG-9	322101.4300	807016.6800	SUMMER AVE.	36+94.23	62.1	RT
LP 103	L-8	B	240	1	LP 107 - PSA	37+38.68	UNDERGROUND	1	30	15	N.A.	T-SG-9	322099.7700	806819.0400	SUMMER AVE.	35+54.69	76.8	LT
LP 506	L-12	B	240	1	LP 505 -PSD	75+79.45	UNDERGROUND	7	30	15	N.A.	T-SG-9	324874.4000	809751.1800	SUMMER AVE.	75+88.69	65.9	RT
LP 508	L-12	B	240	1	LP 505 -PSD	75+79.45	UNDERGROUND	7	30	15	N.A.	T-SG-9	324971.6100	809842.1400	SUMMER AVE.	77+21.44	62.6	RT
LP 906	L-16	B	240	1	PSH	118+64.37	UNDERGROUND	10	30	15	N.A.	T-SG-9	328042.5600	812635.1400	SUMMER AVE.	118+70.47	69.3	RT
LP 907	L-16	A	240	1	PSH	118+64.37	UNDERGROUND	10	30	15	N.A.	T-SG-9	328128.4300	812531.4900	SUMMER AVE.	118+64.37	64.7	LT
LP 913	L-16	B	240	1	PSH	118+64.37	UNDERGROUND	10	30	15	N.A.	T-SG-9	328267.8600	812632.7800	SUMMER AVE.	120+35.80	83.4	LT
LP 914	L-16	B	240	1	PSH	118+64.37	UNDERGROUND	10	30	15	N.A.	T-SG-9	328148.2900	812730.2600	SUMMER AVE.	120+12.71	69.0	RT

WATTAGE "A" (150) BASED ON OFFSET FIXTURES USED IN DESIGN:
150W LED EQUIVALENT COBRA HEAD: LEOTEK GCJ3-30J-MV-30K-2F-GY-095-MLGW
WATTAGE "B" (200) BASED ON FIXTURES USED IN DESIGN:
200W EQUIVALENT COBRA HEAD: COOPER LIGHTING VERD-CA2-110-730-T2-AP-20MSP-PR7-U148032

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3/18/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS
(POLE DATA)
(2 OF 5)

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ROADWAY LIGHT POLE SUMMARY TABLE																		
LIGHT POLE NO.	SHEET NO.	LUM. WATTAGE (LED)	VOLTAGE (V)	NO. OF LAMPS	SERVICE POLE	SERVICE POLE STATION	SERVICE CONNECTION TYPE	CIRCUIT NO.	MOUNTING HEIGHT (FT)	ARM LENGTH (FT)	ARM RISE (HIGH/LOW)	STANDARD DETAIL(S)	NORTHING	EASTING	BASELINE	STATION	OFFSET (FT)	SIDE
LP 101	L-8	A	240	1	LP 107 - PSA	37+38.68	UNDERGROUND	1	30	15	N.A.	STD 500.30 43-0638	322050.8100	806789.0900	SUMMER AVE.	34+98.55	63.8	LT
LP 104	L-8	A	240	1	PSB	39+02.27	UNDERGROUND	2	30	15	N.A.	STD 500.30 43-0638	322209.6100	807119.0100	SUMMER AVE.	38+43.25	60.0	RT
LP 105	L-8	B	240	1	LP 107 - PSA	37+38.68	UNDERGROUND	1	30	15	N.A.	STD 500.30 43-0638	322184.5100	806917.7900	SUMMER AVE.	36+84.30	65.8	LT
LP 106	L-8	A	240	1	PSB	39+02.27	UNDERGROUND	2	30	15	N.A.	STD 500.30 43-0638	322377.4600	807283.6900	SUMMER AVE.	40+78.39	59.6	RT
LP 107	L-8	A	240	1	LP 107 - PSA	37+38.68	AERIAL	3	30	15	N.A.	STD 500.30 43-0638	322228.6700	806950.9000	SUMMER AVE.	37+38.68	73.0	LT
LP 200	L-9	A	240	1	PSB	39+02.27	UNDERGROUND	2	30	15	N.A.	STD 500.30 43-0638	322544.0100	807442.5500	SUMMER AVE.	43+08.53	55.7	RT
LP 201	L-9	A	240	1	LP 107 - PSA	37+38.68	UNDERGROUND	3	30	15	N.A.	STD 500.30 43-0638	322744.6800	807485.3100	SUMMER AVE.	44+81.43	54.5	LT
LP 202	L-9	A	240	1	PSB	39+02.27	UNDERGROUND	2	30	15	N.A.	STD 500.30 43-0638	322691.3100	807597.2000	SUMMER AVE.	45+21.97	62.6	RT
LP 203	L-9	A	240	1	LP 107 - PSA	37+38.68	UNDERGROUND	3	30	15	N.A.	STD 500.30 43-0638	322908.1600	807647.0900	SUMMER AVE.	47+11.51	54.0	LT
LP 204	L-9	A	240	1	PSB	39+02.27	UNDERGROUND	2	30	15	N.A.	STD 500.30 43-0638	322838.1900	807745.9700	SUMMER AVE.	47+31.47	65.3	RT
LP 205	L-9	A	240	1	LP 107 - PSA	37+38.68	UNDERGROUND	3	30	15	N.A.	STD 500.30 43-0638	323019.2400	807745.5700	SUMMER AVE.	48+59.81	61.6	LT
LP 206	L-9	A	240	1	PSB	39+02.27	UNDERGROUND	2	30	15	N.A.	STD 500.30 43-0638	322950.0900	807849.0600	SUMMER AVE.	48+83.01	60.5	RT
LP 207	L-9	A	240	1	LP 107 - PSA	37+38.68	UNDERGROUND	3	30	15	N.A.	STD 500.30 43-0638	323166.2700	807900.8400	SUMMER AVE.	50+73.33	54.1	LT
LP 208	L-9	A	240	1	PSB	39+02.27	UNDERGROUND	2	30	15	N.A.	STD 500.30 43-0638	323083.8800	807984.0100	SUMMER AVE.	50+73.22	62.8	RT
LP 209	L-9	A	240	1	LP 107 - PSA	37+38.68	UNDERGROUND	3	30	15	N.A.	STD 500.30 43-0638	323309.1900	808039.4500	SUMMER AVE.	52+72.50	55.7	LT
LP 210	L-9	A	240	1	PSB	39+02.27	UNDERGROUND	2	30	15	N.A.	STD 500.30 43-0638	323228.3400	808125.5100	SUMMER AVE.	52+75.19	62.4	RT
LP 306	L-10	A	240	1	PSB	39+02.27	UNDERGROUND	2	30	15	N.A.	43-0638	323819.7900	808713.8800	SUMMER AVE.	61+09.60	66.7	RT
LP 307	L-10	A	240	1	LP 107 - PSA	37+38.68	UNDERGROUND	3	30	15	N.A.	43-0638	323909.0600	808624.4300	SUMMER AVE.	61+10.36	59.7	LT
LP 401	L-11	A	240	1	LP 401 - PSC	62+52.58	AERIAL	5	30	15	N.A.	STD 500.30 43-0638	324009.2300	808725.0900	SUMMER AVE.	62+52.58	58.1	LT
LP 402	L-11	A	240	1	PSB	39+02.27	UNDERGROUND	2	30	15	N.A.	STD 500.30 43-0638	324017.7200	808895.3200	SUMMER AVE.	63+77.74	57.0	RT
LP 404	L-11	A	240	1	LP 502 - PSE	74+40.95	UNDERGROUND	4	30	15	N.A.	STD 500.30 43-0638	324140.7800	809016.3800	SUMMER AVE.	65+50.38	57.2	RT
LP 406	L-11	A	240	1	LP 502 - PSE	74+40.95	UNDERGROUND	4	30	15	N.A.	STD 500.30 43-0638	324267.9800	809141.8100	SUMMER AVE.	67+29.29	57.2	RT
LP 408	L-11	A	240	1	LP 502 - PSE	74+40.95	UNDERGROUND	4	30	15	N.A.	STD 500.30 43-0638	324355.1400	809227.7600	SUMMER AVE.	68+51.68	57.4	RT
LP 410	L-11	A	240	1	LP 502 - PSE	74+40.95	UNDERGROUND	4	30	15	N.A.	STD 500.30 43-0638	324460.7300	809331.6300	SUMMER AVE.	69+99.64	57.2	RT
LP 412	L-11	A	240	1	LP 502 - PSE	74+40.95	UNDERGROUND	4	30	15	N.A.	STD 500.30 43-0638	324563.4500	809440.8300	SUMMER AVE.	71+49.45	62.9	RT
LP 504	L-12	A	240	1	LP 502 - PSE	74+40.95	UNDERGROUND	4	30	15	N.A.	STD 500.30 43-0638	324860.0100	809733.6100	SUMMER AVE.	75+66.16	63.4	RT
LP 509	L-12	A	240	1	LP 401 - PSC	62+52.58	UNDERGROUND	5	30	15	N.A.	STD 500.30 43-0638	325033.1200	809665.0600	SUMMER AVE.	76+41.96	107.0	LT
LP 510	L-12	A	240	1	PSG	94+54.18	UNDERGROUND	6	30	15	N.A.	STD 500.30 43-0638	325045.6500	809915.6300	SUMMER AVE.	78+25.48	63.9	RT
LP 511	L-12	B	240	1	PSF	94+28.83	UNDERGROUND	9	30	15	N.A.	STD 500.30 43-0638	325119.8300	809776.0900	SUMMER AVE.	77+82.01	87.9	LT
LP 512	L-12	A	240	1	PSG	94+54.18	UNDERGROUND	6	30	15	N.A.	STD 500.30 43-0638	325180.9100	810036.5600	SUMMER AVE.	80+05.80	58.9	RT

WATTAGE "A" (150) BASED ON OFFSET FIXTURES USED IN DESIGN:
150W LED EQUIVALENT COBRA HEAD: LEOTEK GCJ3-30J-MV-30K-2F-GY-095-MLGW
WATTAGE "B" (200) BASED ON FIXTURES USED IN DESIGN:
200W EQUIVALENT COBRA HEAD: COOPER LIGHTING VERD-CA2-110-730-T2-AP-20MSP-PR7-U148032

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2023	NH-1(424)	L14
PS&E	2025	NH-1(424)	L-5

S.R.1
REV. 03/05/25: MODIFIED FIXTURE SPECIFICATIONS.

SHELBY

SEALED BY



3/18/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS
(POLE DATA)
(3 OF 5)

3/18/2025 7:14:45 AM
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ROADWAY LIGHT POLE SUMMARY TABLE																		
LIGHT POLE NO.	SHEET NO.	LUM. WATTAGE (LED)	VOLTAGE (V)	NO. OF LAMPS	SERVICE POLE	SERVICE POLE STATION	SERVICE CONNECTION TYPE	CIRCUIT NO.	MOUNTING HEIGHT (FT)	ARM LENGTH (FT)	ARM RISE (HIGH/LOW)	STANDARD DETAIL(S)	NORTHING	EASTING	BASELINE	STATION	OFFSET (FT)	SIDE
LP 602	L-13	A	240	1	PSG	94+54.18	UNDERGROUND	6	30	15	N.A.	STD 500.30 43-0638	325559.5900	810376.1100	SUMMER AVE.	85+13.54	55.6	RT
LP 604	L-13	A	240	1	PSG	94+54.18	UNDERGROUND	6	30	15	N.A.	STD 500.30 43-0638	325712.7800	810518.9000	SUMMER AVE.	87+22.93	59.0	RT
LP 606	L-13	A	240	1	PSG	94+54.18	UNDERGROUND	6	30	15	N.A.	STD 500.30 43-0638	325865.3800	810654.3400	SUMMER AVE.	89+27.04	57.2	RT
LP 608	L-13	A	240	1	PSG	94+54.18	UNDERGROUND	6	30	15	N.A.	STD 500.30 43-0638	325983.1000	810776.6900	SUMMER AVE.	90+96.65	69.0	RT
LP 610	L-13	A	240	1	PSG	94+54.18	UNDERGROUND	6	30	15	N.A.	STD 500.30 43-0638	326095.6800	810869.8300	SUMMER AVE.	92+42.67	57.8	RT
LP 700	L-14	A	240	1	PSG	94+54.18	UNDERGROUND	6	30	15	N.A.	STD 500.30 43-0638	326198.7300	810962.3800	SUMMER AVE.	93+80.71	57.0	RT
LP 702	L-14	A	240	1	PSG	94+54.18	UNDERGROUND	8	30	15	N.A.	STD 500.30 43-0638	326293.4000	811043.9000	SUMMER AVE.	95+05.74	59.7	RT
LP 704	L-14	A	240	1	PSG	94+54.18	UNDERGROUND	8	30	15	N.A.	STD 500.30 43-0638	326423.6800	811157.0400	SUMMER AVE.	96+77.72	56.7	RT
LP 706	L-14	A	240	1	PSG	94+54.18	UNDERGROUND	8	30	15	N.A.	STD 500.30 43-0638	326540.2700	811262.9200	SUMMER AVE.	98+35.67	57.1	RT
LP 709	L-14	A	240	1	PSF	94+28.83	UNDERGROUND	11	30	15	N.A.	STD 500.30 43-0638	326890.8700	811427.1100	SUMMER AVE.	102+05.95	55.7	LT
LP 710	L-14	A	240	1	PSG	94+54.18	UNDERGROUND	8	30	15	N.A.	STD 500.30	326814.3600	811512.6200	SUMMER AVE.	102+06.45	58.9	RT
LP 802	L-15	A	240	1	PSG	94+54.18	UNDERGROUND	8	30	15	N.A.	STD 500.30 43-0638	327106.3100	811775.7500	SUMMER AVE.	105+99.54	58.8	RT
LP 804	L-15	A	240	1	PSG	94+54.18	UNDERGROUND	8	30	15	N.A.	STD 500.30 43-0638	327258.2500	811909.8200	SUMMER AVE.	108+02.21	56.7	RT
LP 806	L-15	A	240	1	PSG	94+54.18	UNDERGROUND	8	30	15	N.A.	STD 500.30 43-0638	327407.4400	812045.0000	SUMMER AVE.	110+03.51	57.0	RT
LP 808	L-15	A	240	1	PSG	94+54.18	UNDERGROUND	8	30	15	N.A.	STD 500.30 43-0638	327553.9900	812177.2400	SUMMER AVE.	112+00.72	57.0	RT
LP 810	L-15	A	240	1	PSG	94+54.18	UNDERGROUND	8	30	15	N.A.	STD 500.30 43-0638	327722.8700	812328.9500	SUMMER AVE.	114+27.84	56.5	RT
LP 900	L-16	A	240	1	PSG	94+54.18	UNDERGROUND	8	30	15	N.A.	STD 500.30 43-0638	327901.9200	812499.4800	SUMMER AVE.	116+74.07	63.3	RT
LP 902	L-16	A	240	1	PSG	94+54.18	UNDERGROUND	8	30	15	N.A.	STD 500.30 43-0638	327984.8900	812605.5100	SUMMER AVE.	118+07.86	86.0	RT
LP 908	L-16	A	240	1	PSG	94+54.18	UNDERGROUND	8	30	15	N.A.	STD 500.30 43-0638	812722.4000	812722.4000	SUMMER AVE.	118+60.05	196.4	RT
LP 909	L-16	A	240	1	PSF	94+28.83	UNDERGROUND	11	30	15	N.A.	STD 500.30 43-0638	328204.8000	812521.2500	SUMMER AVE.	119+14.33	123.7	LT
LP 910	L-16	A	240	1	LP 918 - PSJ	121+93.45	UNDERGROUND	12	30	15	N.A.	STD 500.30 43-0638	328042.6800	812816.7600	SUMMER AVE.	119+92.15	204.2	RT
LP 912	L-16	A	240	1	LP 918 - PSJ	121+93.45	UNDERGROUND	12	30	15	N.A.	STD 500.30 43-0638	328123.4600	812782.9100	SUMMER AVE.	120+29.52	124.8	RT
LP 915	L-16	A	240	1	LP 917 - PSI	122+51.79	AERIAL	13	30	15	N.A.	STD 500.30 43-0638	328284.4500	812675.7200	SUMMER AVE.	120+77.08	62.9	LT
LP 916	L-16	A	240	1	LP 918 - PSJ	121+93.45	UNDERGROUND	12	30	15	N.A.	STD 500.30 43-0638	328229.3200	812800.1200	SUMMER AVE.	121+20.30	66.5	RT
LP 917	L-16	A	240	1	LP 917 - PSI	122+51.79	AERIAL	13	30	15	N.A.	STD 500.30 43-0638	328413.0600	812794.1900	SUMMER AVE.	122+51.79	67.0	LT
LP 920	L-16	A	240	1	LP 918 - PSJ	121+93.45	UNDERGROUND	12	30	15	N.A.	STD 500.30 43-0638	328388.5900	812939.1700	SUMMER AVE.	123+30.79	63.0	RT
LP 922	L-16	A	240	1	LP 918 - PSJ	121+93.45	UNDERGROUND	12	30	15	N.A.	STD 500.30 43-0638	328533.6200	813066.0700	SUMMER AVE.	125+23.65	59.6	RT

WATTAGE "A" (150) BASED ON OFFSET FIXTURES USED IN DESIGN:
150W LED EQUIVALENT COBRA HEAD: LEOTEK GCJ3-30J-MV-30K-2F-GY-095-MLGW
WATTAGE "B" (200) BASED ON FIXTURES USED IN DESIGN:
200W EQUIVALENT COBRA HEAD: COOPER LIGHTING VERD-CA2-110-730-T2-AP-20MSP-PR7-U148032

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2023	NH-1(424)	L15
PS&E	2025	NH-1(424)	L-6

S.R.1
REV. 03/05/25: MODIFIED FIXTURE SPECIFICATIONS.

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3/18/2025

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS
(POLE DATA)
(4 of 5)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST	2023	NH-1(424)	L16
PS&E	2025	NH-1(424)	L-7

S.R.1SHELBY

REV. 03/05/25: MODIFIED FIXTURE SPECIFICATIONS.

LUMINAIRES ON UTILITY POLE SUMMARY TABLE																		
LIGHT POLE NO.	SHEET NO.	LUM. WATTAGE (LED)	VOLTAGE (V)	NO. OF LAMPS	SERVICE POLE	SERVICE POLE STATION	SERVICE CONNECTION TYPE	CIRCUIT NO.	MOUNTING HEIGHT (FT)	ARM LENGTH (FT)	ARM RISE (HIGH/LOW)	STANDARD DETAIL(S)	NORTHING	EASTING	BASELINE	STATION	OFFSET (FT)	SIDE
LP 109	L-8	A	240	1	LP 107 - PSA	37+38.68	AERIAL	3	30	15	N.A.	43-0638	322407.9800	807148.6200	SUMMER AVE.	40+05.30	58.2	LT
LP 111	L-8	A	240	1	LP 107 - PSA	37+38.68	AERIAL	3	30	15	N.A.	43-0638	322597.6100	807335.3300	SUMMER AVE.	42+71.55	58.0	LT
LP 400	L-11	A	240	1	PSB	39+02.27	UNDERGROUND	2	30	15	N.A.	43-0638	323918.5400	808817.1500	SUMMER AVE.	62+52.63	70.7	RT
LP 403	L-11	A	240	1	LP 401 - PSC	62+52.58	AERIAL	5	30	15	N.A.	43-0638	324099.3600	808813.8300	SUMMER AVE.	63+79.29	58.4	LT
LP 405	L-11	A	240	1	LP 401 - PSC	62+52.58	AERIAL	5	30	15	N.A.	43-0638	324235.7000	808948.0800	SUMMER AVE.	65+70.26	58.0	LT
LP 407	L-11	A	240	1	LP 401 - PSC	62+52.58	AERIAL	5	30	15	N.A.	43-0638	324352.0900	809062.6700	SUMMER AVE.	67+33.43	58.1	LT
LP 409	L-11	A	240	1	LP 401 - PSC	62+52.58	AERIAL	5	30	15	N.A.	43-0638	324441.4500	809147.1900	SUMMER AVE.	68+56.75	60.3	LT
LP 411	L-11	A	240	1	LP 401 - PSC	62+52.58	AERIAL	5	30	15	N.A.	43-0638	324553.6700	809253.9700	SUMMER AVE.	70+11.34	63.2	LT
LP 413	L-11	A	240	1	LP 401 - PSC	62+52.58	AERIAL	5	30	15	N.A.	43-0638	324652.2600	809355.2400	SUMMER AVE.	71+52.39	60.2	LT
LP 500	L-12	A	240	1	LP 502 - PSE	74+40.95	AERIAL	4	30	15	N.A.	43-0638	324670.6600	809554.6000	SUMMER AVE.	73+05.72	68.8	RT
LP 501	L-12	A	240	1	LP 401 - PSC	65+50.38	AERIAL	5	30	15	N.A.	43-0638	324779.4000	809474.7300	SUMMER AVE.	73+27.32	64.5	LT
LP 502	L-12	A	240	1	LP 502 - PSE	74+40.95	AERIAL	4	30	15	N.A.	STD 500.30 43-0638	324768.7100	809647.7500	SUMMER AVE.	74+40.95	66.6	RT
LP 503	L-12	A	240	1	LP 401 - PSC	62+52.58	AERIAL	5	30	15	N.A.	43-0638	324846.5700	809541.5200	SUMMER AVE.	74+21.68	63.8	LT
LP 505	L-12	A	240	1	LP 505 - PSD	75+79.45	AERIAL	5	30	15	N.A.	43-0638	324958.8800	809652.1000	SUMMER AVE.	75+79.45	64.0	LT
LP 513	L-12	A	240	1	PSF	94+28.83	AERIAL	9	30	15	N.A.	43-0638	325134.3600	809823.2500	SUMMER AVE.	78+25.59	63.9	LT
LP 514	L-12	A	240	1	PSG	94+54.18	UNDERGROUND	6	30	15	N.A.	43-0638	325286.2100	810136.0000	SUMMER AVE.	81+50.03	60.6	RT
LP 515	L-12	A	240	1	PSF	94+28.83	AERIAL	9	30	15	N.A.	43-0638	325265.8200	809952.4600	SUMMER AVE.	80+10.68	60.2	LT
LP 517	L-12	A	240	1	PSF	94+28.83	AERIAL	9	30	15	N.A.	43-0638	325364.5000	810046.6300	SUMMER AVE.	81+47.81	58.2	LT
LP 600	L-13	A	240	1	PSG	94+54.18	UNDERGROUND	6	30	15	N.A.	43-0638	325396.0400	810232.6600	SUMMER AVE.	82+95.96	58.6	RT
LP 601	L-13	A	240	1	PSF	94+28.83	AERIAL	9	30	15	N.A.	43-0638	325468.4700	810140.7700	SUMMER AVE.	82+88.39	58.1	LT
LP 603	L-13	A	240	1	PSF	94+28.83	AERIAL	9	30	15	N.A.	43-0638	325627.9000	810284.8100	SUMMER AVE.	85+03.16	57.7	LT
LP 605	L-13	A	240	1	PSF	94+28.83	AERIAL	9	30	15	N.A.	43-0638	325814.2600	810452.7100	SUMMER AVE.	87+54.01	57.7	LT
LP 607	L-13	A	240	1	PSF	94+28.83	AERIAL	9	30	15	N.A.	43-0638	325924.8300	810552.4600	SUMMER AVE.	89+02.77	58.1	LT
LP 609	L-13	A	240	1	PSF	94+28.83	AERIAL	9	30	15	N.A.	43-0638	326032.9600	810650.0100	SUMMER AVE.	90+48.17	57.9	LT
LP 611	L-13	A	240	1	PSF	94+28.83	AERIAL	9	30	15	N.A.	43-0638	326151.0300	810756.5200	SUMMER AVE.	92+07.26	57.9	LT
LP 613	L-13	A	240	1	PSF	94+28.83	AERIAL	9	30	15	N.A.	43-0638	326256.0900	810851.3000	SUMMER AVE.	93+49.46	58.0	LT
LP 701	L-14	A	240	1	PSF	94+28.83	AERIAL	11	30	15	N.A.	43-0638	326369.3600	810953.4100	SUMMER AVE.	95+01.67	58.0	LT
LP 703	L-14	A	240	1	PSF	94+28.83	AERIAL	11	30	15	N.A.	43-0638	326523.4900	811090.6400	SUMMER AVE.	97+07.77	59.4	LT
LP 705	L-14	A	240	1	PSF	94+28.83	AERIAL	11	30	15	N.A.	43-0638	326639.1500	811191.1100	SUMMER AVE.	98+61.07	62.2	LT
LP 800	L-15	A	240	1	PSG	94+54.18	UNDERGROUND	8	30	15	N.A.	43-0638	326952.5500	811640.6000	SUMMER AVE.	103+94.82	61.2	RT
LP 801	L-15	A	240	1	PSF	94+28.83	AERIAL	11	30	15	N.A.	43-0638	327030.4000	811554.3200	SUMMER AVE.	103+94.76	54.9	LT
LP 803	L-15	A	240	1	PSF	94+28.83	AERIAL	11	30	15	N.A.	43-0638	327179.3200	811688.6700	SUMMER AVE.	105+95.39	54.7	LT
LP 805	L-15	A	240	1	PSF	94+28.83	AERIAL	11	30	15	N.A.	43-0638	327330.5700	811825.1200	SUMMER AVE.	107+99.24	55.0	LT
LP 807	L-15	A	240	1	PSF	94+28.83	AERIAL	11	30	15	N.A.	43-0638	327481.9000	811961.2900	SUMMER AVE.	110+02.82	55.1	LT
LP 809	L-15	A	240	1	PSF	94+28.83	AERIAL	11	30	15	N.A.	43-0638	327630.6000	812095.7400	SUMMER AVE.	112+02.91	54.6	LT
LP 901	L-16	A	240	1	PSF	94+28.83	AERIAL	11	30	15	N.A.	43-0638	327820.2300	812265.2300	SUMMER AVE.	114+57.66	56.0	LT
LP 903	L-16	A	240	1	PSF	94+28.83	AERIAL	11	30	15	N.A.	43-0638	327968.9100	812392.6900	SUMMER AVE.	116+53.22	61.0	LT
LP 904	L-16	A	240	1	PSG	94+54.18	UNDERGROUND	8	30	15	N.A.	43-0638	327976.0900	812675.4800	SUMMER AVE.	118+48.39	143.6	RT
LP 905	L-16	A	240	1	PSF	94+28.83	AERIAL	11	30	15	N.A.	43-0638	328085.3400	812495.0600	SUMMER AVE.	118+08.23	63.1	LT
LP 918	L-16	A	240	1	LP 918 - PSJ	121+93.45	AERIAL	12	30	15	N.A.	43-0638	328285.4700	812848.2000	SUMMER AVE.	121+93.45	64.5	RT
LP 919	L-16	A	240	1	LP 917 - PSI	122+51.79	AERIAL	13	30	15	N.A.	43-0638	328572.3800	812941.4700	SUMMER AVE.	124+68.82	58.8	LT

WATTAGE "A" (150) BASED ON OFFSET FIXTURES USED IN DESIGN:
150W LED EQUIVALENT COBRA HEAD: LEOTEK GCJ3-30J-MV-30K-2F-GY-095-MLGW
WATTAGE "B" (200) BASED ON FIXTURES USED IN DESIGN:
200W EQUIVALENT COBRA HEAD: COOPER LIGHTING VERD-CA2-110-730-T2-AP-20MSP-PR7-U148032

SEALED BY



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS
(POLE DATA)
(5 of 5)

3/18/2025 7:15:20 AM
K:\VAB_SYSTEMS\LIGHTING\SR1-Memphis\CADD\Plans\L_Series\SH001_Lighting_L16.sht