

FILE NAME: J:\PROJECT\KATC\5005246 SIMON KENTON BR LIGHTING INSP\DATA-TECH\CONTRACT PLAN AND PROPOSAL\CONTRACT PLAN SET\TODOLC.DWG

USER: amandawebbing DATE PLOTTED: June 21, 2016

MicroStation 48.1.2.714

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STANDARD DRAWINGS	
NUMBER	

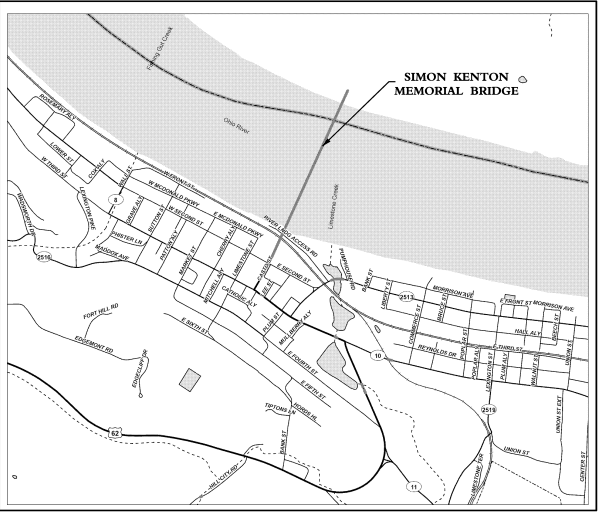
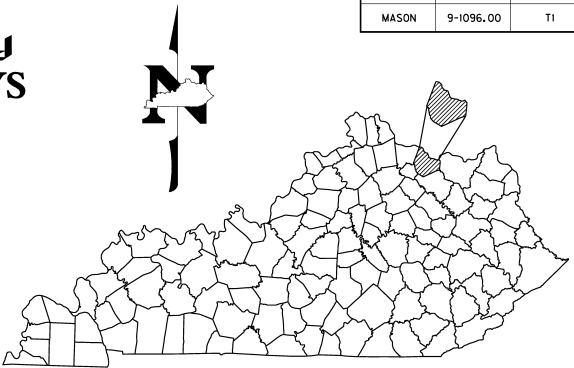
<b>DESIGN CRITERIA</b>	
CLASS OF HIGHWAY	N/A
TYPE OF TERRAIN	N/A
DESIGN SPEED	N/A
REQUIRED NPSD	N/A
REQUIRED PSD	N/A
LEVEL OF SERVICE	N/A
ADT PRESENT ( )	N/A
ADT FUTURE ( )	N/A
DHV	N/A
D %	N/A
T %	N/A
<b>GEOGRAPHIC COORDINATES</b>	
LATITUDE	38 DEGREES 38 MINUTES 59 SECONDS NORTH
LONGITUDE	83 DEGREES 45 MINUTES 36 SECONDS WEST
<b>DESIGNED</b>	
% RESTRICTED SD	
LEVEL OF SERVICE	
MAX. DISTANCE W/O PASSING	

LENGTH		LIN. FT.		MILES
ADDED	FOR EQUALITIES		LIN. FT.	
REDUCED	NOT INCLUDED		LIN. FT.	
RAILROAD CROSSINGS NO.		LIN. FT.		
BRIDGES		LIN. FT.		

Commonwealth of Kentucky  
DEPARTMENT OF HIGHWAYS

PLANS OF  
PROPOSED PROJECT  
FD39 SC 081 0062 017-019  
MASON COUNTY

SIMON KENTON MEMORIAL BRIDGE  
THESE PLANS ARE FOR BRIDGE LIGHTING  
STP 0681 030



LAYOUT MAP  
(NOT TO SCALE)

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF MASON	
ITEM NO.	9-1096.00
PROJECT	STP 0681 030
NUMBER:	FD39 SC 081 0062 017-019
LETTING DATE:	JULY 29, 2016
RECOMMENDED BY:	DARRIN ELDRIDGE 6/22/2016
PROJECT MANAGER	
DATE:	
PLAN APPROVED BY:	07-08-2016
STATIONING ENGINEER	
DATE:	



URS



MicroStation v8.11.5.714 E-SHEET NAME: T00200SU USER: amandajewett DATE PLOTTED: June 21, 2016 FILE NAME: J:\PROJECT\NYC\1505248 SIMON KENTON BR LIGHTING\ISP\DATA-TECH\CONTRACT PLAN SET\T00200SU.DGN

GENERAL SUMMARY

ITEM CODE	ITEM	UNIT		TOTAL PROJECT
2014	BARRICADE-TYPE III	EACH		8
2562	TEMPORARY SIGNS	50 FT		20
2569	DEMOBILIZATION	LP SUM		1
2650	MAINTAIN & CONTROL TRAFFIC	LP SUM		1
2671	PORTABLE CHANGEABLE MESSAGE SIGN	EACH		14
4761	LIGHTING CONTROL EQUIPMENT	EACH		1
4780	FUSED CONNECTOR KIT	EACH		288
4790	CONDUIT - 1/2 INCH	LIN FT		360
4791	CONDUIT - 3/4 INCH	LIN FT		4875
4791	CONDUIT - 3/4 INCH - FLEX	LIN FT		460
4792	CONDUIT - 1 INCH	LIN FT		30
4794	CONDUIT - 1 1/2 INCH	LIN FT		35
4832	WIRE-NO. 12	LIN FT		1080
4833	WIRE-NO. 8	LIN FT		21350
4835	WIRE-NO. 4	LIN FT		365
4940	REMOVE LIGHTING (AESTHETIC)	LP SUM		1
21563NN	SPLICE BOX - 6"X6"X4"	EACH		144
21563NN	SPLICE BOX - 10"X8"X4"	EACH		1
21563NN	SPLICE BOX - 12"X12"X6"	EACH		1
24589ED	LED LUMINAIRE	EACH		144

COUNTY OF	ITEM NO.	SHEET NO.
MASON	9-1096.00	T2

SIMON KENTON MEMORIAL BRIDGE  
GENERAL SUMMARY

FILE NAME: J:\PROJECT\KATC\500548 SIMON KENTON BR LIGHTING INSPIRA-1A-TECH\CONTRACT PLAN AND PROPOSAL\CONTRACT PLAN SET\03030000.DWG  
USER: amandawebbing  
DATE PLOTTED: June 21, 2016  
E-SHEET NAME: 03030000  
MicroStation v8.1.5.714

SPECIAL AND GENERAL NOTES

COUNTY OF	ITEM NO.	SHEET NO.
MASON	9-1096.00	T3

CONSTRUCTION MATERIAL DISPOSAL

ALL WASTE MATERIAL THAT IS REQUIRED TO BE REMOVED SHALL BE DISPOSED OF OFF THE RIGHT-OF-WAY AT SITES ACQUIRED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE DEPARTMENT, PER SECTION 204.03.08 OF THE CURRENT EDITION OF THE KYTC STANDARD SPECIFICATIONS. NO WASTE WILL BE PERMITTED TO BE DROPPED IN THE OHIO RIVER AT ANY TIME.

KENTUCKY ONE CALL

CALL 1-800-752-6007 \*13450 TOLL FREE A MINIMUM OF TWO AND NO MORE THAN TEN BUSINESS DAYS PRIOR TO EXCAVATION FOR INFORMATION ON THE LOCATION OF EXISTING UNDERGROUND UTILITIES WHICH SUBSCRIBE TO THE KENTUCKY ONE CALL SERVICE. COORDINATE EXCAVATION WITH ALL UTILITY OWNERS, INCLUDING THOSE WHO DO NOT SUBSCRIBE TO KENTUCKY ONE CALL.

KENTUCKY STANDARD SPECIFICATIONS

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 716 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPIRAL REINFORCEMENT SPlicing.

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS. CLIMBING WILL NOT BE PERMITTED DURING INSPECTION PRIOR TO AWARD OF CONTRACT. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 716

SUBSECTION: 03.02 LIGHTING STANDARD INSTALLATION.  
REVISION: REPLACE ENTIRE FOURTH SENTENCE IN FIRST PARAGRAPH; IF ANY POLE NEEDS TO BE RELOCATED FROM STATIONS INDICATED, THE DIVISION OF TRAFFIC OPERATIONS SHALL BE CONTACTED.

SUBSECTION: 03.03 TRENCHING.  
REVISION: REMOVE ENTIRE FOURTH SENTENCE IN FIRST PARAGRAPH; NO PAYMENT FOR ADDITIONAL JUNCTION BOXES FOR GREATER DEPTHS WILL BE ALLOWED.

SUBSECTION: 03.04 CONDUIT INSTALLATION.  
REVISION: ADD THE FOLLOWING TO THE PART TO THE SUBSECTION: G) BORE AND JACK. CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH SUBSECTIONS 706.03.02, PARAGRAPHS 1, 2 AND 4.

SUBSECTION: 03.10 JUNCTION BOXES.  
REVISION: REPLACE SUBSECTION TITLE WITH THE FOLLOWING: ELECTRICAL JUNCTION BOX AND REPLACE THE LAST SENTENCE OF THE PARAGRAPH WITH THE FOLLOWING: ANY ADDITIONAL JUNCTION BOXES SHALL BE APPROVED BY THE ENGINEER.

SUBSECTION: 03.13 TEMPORARY LIGHTING.  
REVISION: CHANGE SUBSECTION HEADING TO THE FOLLOWING: 716.03.13 TEMPORARY/MAINTAIN LIGHTING. REPLACE THE ENTIRE SECTION WITH THE FOLLOWING: THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS NECESSARY TO TEMPORARILY LIGHT THE PROPOSED ROADWAY TO DESIGN STANDARDS IN SUBSECTION 716.03. THE CONTRACTOR SHALL SUBMIT HIS PROPOSED DESIGN OF TEMPORARY LIGHTING TO THE DIVISION OF TRAFFIC OPERATIONS FOR APPROVAL AT LEAST 30 DAYS BEFORE INSTALLATION. MAINTAIN ALL LIGHTING ELEMENTS IMPACTED WITHIN OR OUTSIDE THE PROJECT LIMITS UNTIL NEW LIGHTING ELEMENTS ARE INSTALLED AND A FUNCTIONAL INSPECTION HAS BEEN PERFORMED ON THE NEW LIGHTING ELEMENTS. THE CONTRACTOR SHALL SUBMIT A PROPOSED DESIGN FOR MAINTAINING LIGHTING TO THE DIVISION OF TRAFFIC OPERATIONS FOR APPROVAL AT LEAST 30 DAYS BEFORE INSTALLATION.

SUBSECTION: 03.14 REMOVE LIGHTING.  
REVISION: REPLACE ENTIRE NOTE WITH THE FOLLOWING: REMOVE ALL LIGHTING EQUIPMENT THAT IS IDENTIFIED BY THE ENGINEER AS NO LONGER NECESSARY INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: POLE BASES, POLES, JUNCTION BOXES, CABINETS, AND WOOD POLES. POLE BASES SHALL BE REMOVED A MINIMUM OF ONE FOOT BELOW FINISHED GRADE BY CHIPPING OFF OR OTHER METHOD THAT IS APPROVED BY THE ENGINEER. DISPOSE OF ALL REMOVED CONCRETE OFF RIGHT-OF-WAY. WOOD POLES SHALL BE REMOVED A MINIMUM OF ONE FOOT BELOW FINISHED GRADE. BACKFILL HOLES WITH MATERIAL APPROVED BY THE ENGINEER. CONDUIT MAY BE ABANDONED IN THE GROUND. ALL MATERIALS SHALL BE REMOVED FROM THE PROJECT AS DIRECTED BY THE ENGINEER. TRANSFORMERS NOT OWNED BY A UTILITY SHALL BE TESTED FOR PCB'S AND DISPOSED OF IN ACCORDANCE WITH STATE REGULATIONS.

SUBSECTION: 04.08 LIGHTING CONTROL EQUIPMENT.  
REVISION: REPLACE THE PARAGRAPH WITH THE FOLLOWING: THE DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT FURNISHED AND INSTALLED. THE DEPARTMENT WILL NOT MEASURE THE CONCRETE BASE, EXCAVATION, BACKFILLING, RESTORATION, ANY NECESSARY ANCHORS, ELECTRICAL INSPECTION FEES, AND REQUIRED BUILDING FEES INVOLVING UTILITY SECONDARY/PRIMARY SERVICE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL ALSO NOT MEASURE/ FURNISHING AND INSTALLING ELECTRICAL SERVICE CONDUCTORS, SPECIFIED CONDUITS, METER BASE, TRANSFORMER, SERVICE PANEL, FUSED CUTOUT, FUSES, LIGHTING ARRESTORS, PHOTOELECTRICAL CONTROL, CIRCUIT BREAKERS, CONTACTOR, MANUAL SWITCH, GROUND RODS, GROUND LUGS, AND GROUND WIRES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL NOT MEASURE THE FILLING OF ANY UNUSED HOLES WITH AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.09 LUMINAIRE.  
REVISION: REPLACE THE PARAGRAPH WITH THE FOLLOWING: THE DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT FURNISHED AND INSTALLED. THE DEPARTMENT WILL NOT MEASURE LAMPS, STARTERS, BALLASTS, DRIVERS, SURGE PROTECTION, DIMMING MODULES, PHOTO-CONTROL RECEPTACLE, SPECIFIED SHIELDING (IF REQUIRED), AND ANY ADJUSTMENTS NECESSARY TO PROVIDE THE DESIRED LIGHTING PATTERN FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.10 FUSED CONNECTOR KITS.  
REVISION: REPLACE THE HEADING WITH THE FOLLOWING: 716.04.10 FUSE CONNECTOR KITS. REPLACE THE PARAGRAPH WITH THE FOLLOWING: THE DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT FURNISHED AND INSTALLED. THE DEPARTMENT WILL NOT MEASURE FUSES/LUGS FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.11 CONDUITS.  
REVISION: REPLACE THE SECOND SENTENCE WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE INSTALLATION IN GROUND OR ON STRUCTURES, CONDUIT FITTINGS, TEST PLUGS, EXPANSION JOINTS WITH BONDING STRAPS, GROUNDING LUGS, DRILL ANCHORS, CLAMPS, AND ANY ADDITIONAL HARDWARE REQUIRED FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.13 PART A JUNCTION ELECTRICAL. DELETE PART A.

SUBSECTION: 04.15 WIRE OR CABLE.  
REVISION: REPLACE THE SECTION WITH THE FOLLOWING: THE DEPARTMENT WILL MEASURE THE QUANTITY IN LINEAR FEET FURNISHED AND INSTALLED. THE DEPARTMENT WILL NOT MEASURE INSTALLATION WITHIN CONDUIT, SPLICE BOOTS, AND ANY OTHER HARDWARE REQUIRED FOR INSTALLING CABLE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 834 CONTRARY TO SECTION 834.09: ALL WIRE INSULATION SHALL TYPE 'THHN-2 OR THWN-2'.

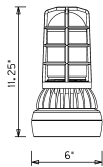
CONTRARY TO SECTION 834.10: FUSED CONNECTOR KIT SHALL BE EITHER A SINGLE-POLE, NON-BREAKAWAY, IN-LINE FUSE HOLDER TYPICAL OF BUSSMAN HEB SERIES (OR APPROVED EQUAL) WITH KTK FAST-ACTING FUSE OR BUSSMAN HET SERIES (OR APPROVED EQUAL) WITH SOLID NEUTRAL AS DESIGNATED ON THE PLANS. FUSE SIZE SHALL BE 1/4 AMP.

CONTRARY TO SECTION 834.2i: CONTROL CABINET SHALL BE A NEW, NEMA TYPE 4X RATED, 14 GAUGE TYPE 316L STAINLESS STEEL ENCLOSURE WITH A CONTINUOUS HINGED SINGLE DOOR AND LOCKABLE TWO OR THREE POINT LATCHING HANDLE, EXTERNAL MOUNTING PLATES, AND BRUSH FINISH. SIZE ENCLOSURE AS REQUIRED TO HOUSE ALL ELECTRICAL CONTROL EQUIPMENT SHOWN ON PLANS. MINIMUM SIZE SHALL BE 24"x20"x10". SURGE PROTECTION DEVICE SHALL BE UL 1449 LISTED FOR TYPE 1 LOCATION, RATED FOR 100 KA/PHASE SURGE CURRENT CAPACITY AT 277/480V SINGLE PHASE, AND HAVE A SHORT CIRCUIT CURRENT RATING (SCCR) OF 200KA. APX SPDEE SERIES OR APPROVED EQUAL.

IN ADDITION TO SECTION 834.09: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES: \*PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501'.

SIMON KENTON MEMORIAL BRIDGE  
SPECIAL & GENERAL NOTES

COUNTY OF	ITEM NO.	SHEET NO.
MASON	9-1096.00	14



LED LUMINAIRE SPECIFICATION:

LUMINAIRE SHALL BE NEW AND MEET THE REQUIREMENTS OF THE CURRENT IEEE, NEMA, ANSI, UL STANDARDS AS APPLICABLE. LUMINAIRE TO BE LISTED BY, AND BEAR THE LABEL OF A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) AND BE SUITABLE FOR WET LOCATION USE AND MOUNTING IN AN UPLIGHT POSITION.

LUMINAIRE TO BE FURNISHED COMPLETE INCLUDING HOUSING, DRIVER, LED OPTICAL ASSEMBLY, ETC. AND BE FROM THE SAME MANUFACTURER. LUMINAIRE SHALL BE "BUY AMERICAN ACT", "RECOVERY ACT (ARRA)", AND RoHS COMPLIANT.

LUMINAIRE HOUSING SHALL BE DIE-CAST ALUMINUM CONSTRUCTION WITH STAINLESS STEEL OR ZINC PLATED STEEL FASTENING HARDWARE. LUMINAIRE REFLECTOR SHALL BE A FROSTED GLASS GLOBE WITH ALUMINUM GUARD, SILICONE GASKETING AND THUMB SCREWS. LUMINAIRE FINISH TO BE NATURAL ALUMINUM.

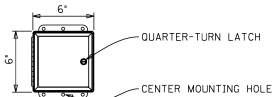
LUMINAIRE TO HAVE PASSIVE COOLING (NO FANS, ETC.) AND BE DESIGNED TO OPERATE WITHIN A -40 DEGREE CELSIUS (C) TO 40 DEGREE C AMBIENT TEMPERATURE ENVIRONMENT. THE LUMINAIRE LED OPTICAL ASSEMBLY SHALL HAVE A MINIMUM LUMEN OUTPUT OF 1725 LUMENS AT A COLOR TEMPERATURE OF 4000K AND HAVE A MINIMUM COLOR ACCURACY OF 80 CRI AND A 3-STEP MACADAM ELLIPSE BINNING OR BETTER. LED ASSEMBLY SHALL ALSO HAVE AN IES L70 RATED LIFE EXPECTANCY OF 100,000 HOURS OR MORE, A MINIMUM LUMINAIRE EFFICACY OF 65 LUMENS/WATT, AND A MAXIMUM INPUT WATTAGE OF 30 WATTS.

LUMINAIRE SHALL BE RATED FOR 120-277V OPERATION WITH 98% EFFICIENCY. LUMINAIRE LED DRIVER TO HAVE A TOTAL HARMONIC DISTORTION OF 20% OR LESS AND INCLUDED A MINIMUM BUILT-IN 4KV SURGE SUPPRESSION.

LUMINAIRE TO HAVE MINIMUM 5 YEAR MANUFACTURER'S WRITTEN WARRANTY COVERING LUMINAIRE ASSEMBLY, ELECTRICAL COMPONENTS, DRIVER, MECHANICAL COMPONENTS, PAINT FINISH, LIGHT OUTPUT, AND COLOR STABILITY.

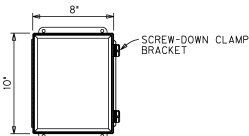
LUMINAIRE TO BE RAB LIGHTING \*VXLLED SERIES OR APPROVED EQUAL.

BRIDGE LED ACCENT LUMINAIRE  
NOT TO SCALE



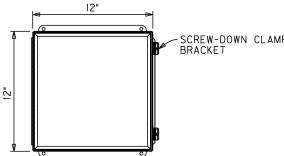
6"x6"x4" SPLICE BOX SPECIFICATION:

ENCLOSURE SHALL BE A NEW, NEMA TYPE 4 RATED, 14 GAUGE STEEL ENCLOSURE WITH A CONTINUOUS HINGED SINGLE DOOR, EXTERNAL MOUNTING PLATES, QUARTER-TURN LATCH, SEAMLESS GASKETING, AND GRAY FINISH.



10"x8"x4" SPLICE BOX SPECIFICATION:

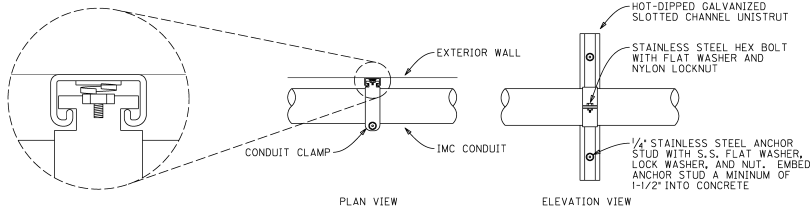
ENCLOSURE SHALL BE A NEW, NEMA TYPE 4X RATED, 14 GAUGE TYPE 316L STAINLESS STEEL (SS) ENCLOSURE WITH A CONTINUOUS HINGED SINGLE DOOR, EXTERNAL MOUNTING PLATES, SS SCREW-DOWN CLAMP BRACKET, SEAMLESS GASKETING, AND BRUSHED FINISH.



12"x12"x6" SPLICE BOX SPECIFICATION:

ENCLOSURE SHALL BE A NEW, NEMA TYPE 4X RATED, 14 GAUGE TYPE 316L STAINLESS STEEL (SS) ENCLOSURE WITH A CONTINUOUS HINGED SINGLE DOOR, EXTERNAL MOUNTING PLATES, SS SCREW-DOWN CLAMP BRACKET, SEAMLESS GASKETING, AND BRUSHED FINISH.

ELECTRICAL SPLICE BOXES  
NOT TO SCALE



NOTE:

1. UNISTRUT SHALL BE 1-5/8" WIDE, 7/8" HIGH, HOT-DIPPED GALVANIZED, 12 GAUGE STEEL, SLOTTED CHANNEL. LENGTH AS REQUIRED.

UNISTRUT WALL MOUNTING DETAIL  
NOT TO SCALE

GENERAL NOTES:

CONTRACTOR SHALL VISIT THE JOB SITE TO VERIFY EXISTING FIELD CONDITIONS AND ELECTRICAL UTILITIES PRIOR TO BID AND INCLUDE ALL NECESSARY ALLOWANCES TO CARRY OUT INTENT OF DRAWINGS. REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO START OF WORK. NO EXTRAS WILL BE ALLOWED FOR OMITTED WORK DUE TO FAILURE TO INSPECT THE JOB SITE. START OF DEMOLITION SIGNIFIES ACCEPTANCE OF EXISTING CONDITIONS.

CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, AND EQUIPMENT AS INDICATED ON PLANS AND AS REQUIRED FOR A COMPLETE LIGHTING SYSTEM INCLUDING STORAGE, DEMOLITION, AND REMOVAL.

DISCONNECT AND REMOVE THE ENTIRE EXISTING BRIDGE AESTHETIC (NECKLACE) LIGHTING SYSTEM, UNLESS NOTED OTHERWISE ON THE DRAWINGS. REMOVAL SHALL INCLUDE LIGHTING CONTROL EQUIPMENT, LUMINAIRES, RACEWAY, CABLE/WIRING, MOUNTING HARDWARE, ETC. FOR COMPLETE SYSTEM REMOVAL. TOUCH-UP ALL MARRED, EXPOSED OR SCRATCHED BRIDGE SURFACES RESULTING FROM SYSTEM REMOVAL WITH AN ENGINEER APPROVED RUST PROHIBITIVE PAINT MATCHING ADJACENT SURFACE.

AS PART OF THE BID DOCUMENTS, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE FOLLOWING PRODUCTS: LED LUMINAIRE, LIGHTING CONTROL EQUIPMENT, FUSED CONNECTOR KIT, SPLICE BOXES, STAINLESS STEEL BANDING & MOUNTING HARDWARE, CONDUIT, AND WIRING. CONTRACTOR MUST ALSO SUBMIT ONE COMPLETE PRODUCT MOCK-UP SAMPLE DETAILING TYPICAL LUMINAIRE MOUNTING INSTALLATION AT THE MAIN SUSPENSION CABLE BANDS. SAMPLE TO INCLUDE LED LUMINAIRE, CONDUIT, CONDUIT FITTINGS, 6"x6"x4" SPLICE BOX, LMFC CONDUIT, MOUNTING HARDWARE, AND 3/4" ROD FOR APPROVAL. PRODUCT SAMPLES WILL BE RETURNED UPON REQUEST. THESE ITEMS MUST BE APPROVED PRIOR TO PURCHASE.

ELECTRICAL SERVICE SHALL BE 277/480 VOLT, 1 PHASE, 3 WIRE.

THE CONTRACTOR SHALL CONTACT LOCAL UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.

ALL MATERIAL SHALL BE NEW AND ONLY LISTED OR LABELED EQUIPMENT SHALL BE USED OR INSTALLED IN ACCORDANCE WITH ANY INSTRUCTIONS INCLUDED IN THE LISTING OR LABELING. (NEC SECTION 110-3(A) AND 3(B)).

ELECTRICAL ENCLOSURES, CONDUIT SYSTEMS, LUMINAIRES, ETC. SHALL BE THOROUGHLY GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL CODES.

ALL MOUNTING BRACKETS AND HARDWARE INSTALLED ON THE BRIDGE SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE. ALL UNTREATED OR FIELD CUT FERROUS SURFACES SHALL BE TREATED WITH COLD GALVANIZING COMPOUND.

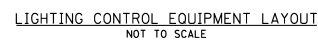
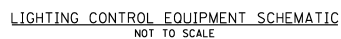
ALL ELECTRICAL CONNECTIONS, TERMINALS, AND METAL RACEWAY THREADS SHALL BE COATED WITH A LISTED ELECTRICAL JOINT COMPOUND. ALL EXPOSED FERROUS METAL FIELD CUT THREADS, BRACKETS, OR ANY UNTREATED METAL SURFACES SHALL BE COATED WITH A ZINC-RICH COMPOUND. ALL FERROUS METAL HARDWARE (I.E. NUTS, BOLTS, WASHERS) SHALL BE COATED WITH A NON-OXIDIZING COMPOUND. ALL METAL LOCKNUTS USED SHALL BE OF THE SEALING TYPE.

ALL CABLE/WIRE RUNS SHALL BE SPLICE-FREE FROM THE CONTROLLER TO EACH SPLICE BOX. ALL CABLES/WIRE SHALL BE PERMANENTLY LABELED INSIDE CONTROLLER CABINET AND SPLICE BOXES CIRCUIT NUMBERS. ALL CABLE/WIRE SPLICES NOTED ON THE PLANS MUST BE MADE WITHIN THE SPLICE BOXES AND SHALL BE MADE WITH LISTED SCREW TYPE PRESSURE CONNECTORS OR MULTI-PORT TERMINAL BLOCKS. SPLIT BOLT CONNECTORS WILL NOT BE ALLOWED. INSULATE SPLICES AS REQUIRED WITH A LAYER OF 3M RUBBER TAPE COVERED BY 3M 33 VINYL ELECTRICAL TAPE OR APPROVED EQUAL. ALL SPLICES SHALL BE INCIDENTAL TO THE WIRE AND CABLE BEING INSTALLED.

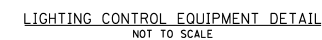
ALL EXPOSED CONDUIT MUST BE SECURED IN PLACE ACCORDING TO THE NATIONAL ELECTRICAL CODE (NEC) AS SHOWN ON THE PLANS WITH STAINLESS STEEL BANDING, BRACKETS, CONDUIT CLAMPS AND HANGERS.

THE BRIDGE MAIN SUSPENSION CABLE STAINLESS STEEL BANDING SHALL BE 3/4"x 0.030 MINIMUM, BY INDEPENDENT METAL STRAP COMPANY, INC. OR APPROVED EQUAL. ATTACH STAINLESS STEEL FLARED LEO SIGN BRACKET FOR CONDUIT HANGER TO SUSPENSION CABLE WITH BANDING AND SECURE WITH APPROVED BANDING TOOL PER MANUFACTURER'S RECOMMENDATION.

UPON COMPLETION OF THE PROJECT AN INSPECTION WILL BE CARRIED OUT AFTER THE LIGHTING IS FUNCTIONAL TO VERIFY PROPER ILLUMINATION, PROPER RACEWAY AND CABLE INSTALLATION, OPERATIONAL FEATURES AND AN INSULATION TEST OF ALL WIRING AS WELL AS GROUNDING RESISTANCE. ALL BRIDGE ACCENT LIGHTING CIRCUITS MUST PASS AN INSULATION TEST OF 100 MILLION OHMS TO GROUND. GROUND RODS SHALL HAVE A RESISTANCE TO GROUND NOT TO EXCEEDS 25 OHMS. IF GROUND RESISTANCE EXCEED 25 OHMS, THERE SHALL BE TWO OR MORE GROUND RODS CONNECTED IN PARALLEL UNTIL IT MEETS THIS VALUE. AFTER ACCEPTANCE OF LIGHTING INSPECTION, CONTRACTOR TO OPERATE LUMINAIRES UNINTERRUPTED FOR A ONE WEEK BURN-IN PERIOD. THE CONTRACTOR SHALL REPLACE ANY LUMINAIRE WHICH FAILS DURING THIS PERIOD AT NO ADDITIONAL COST.



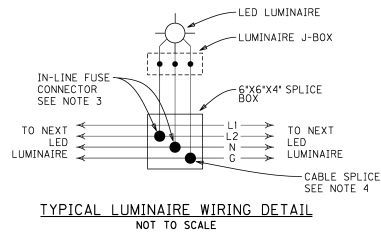
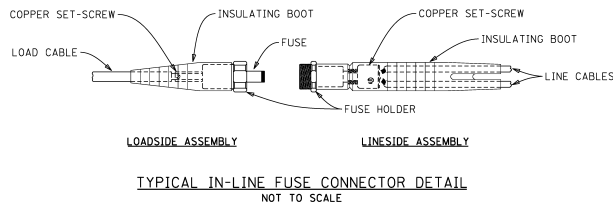
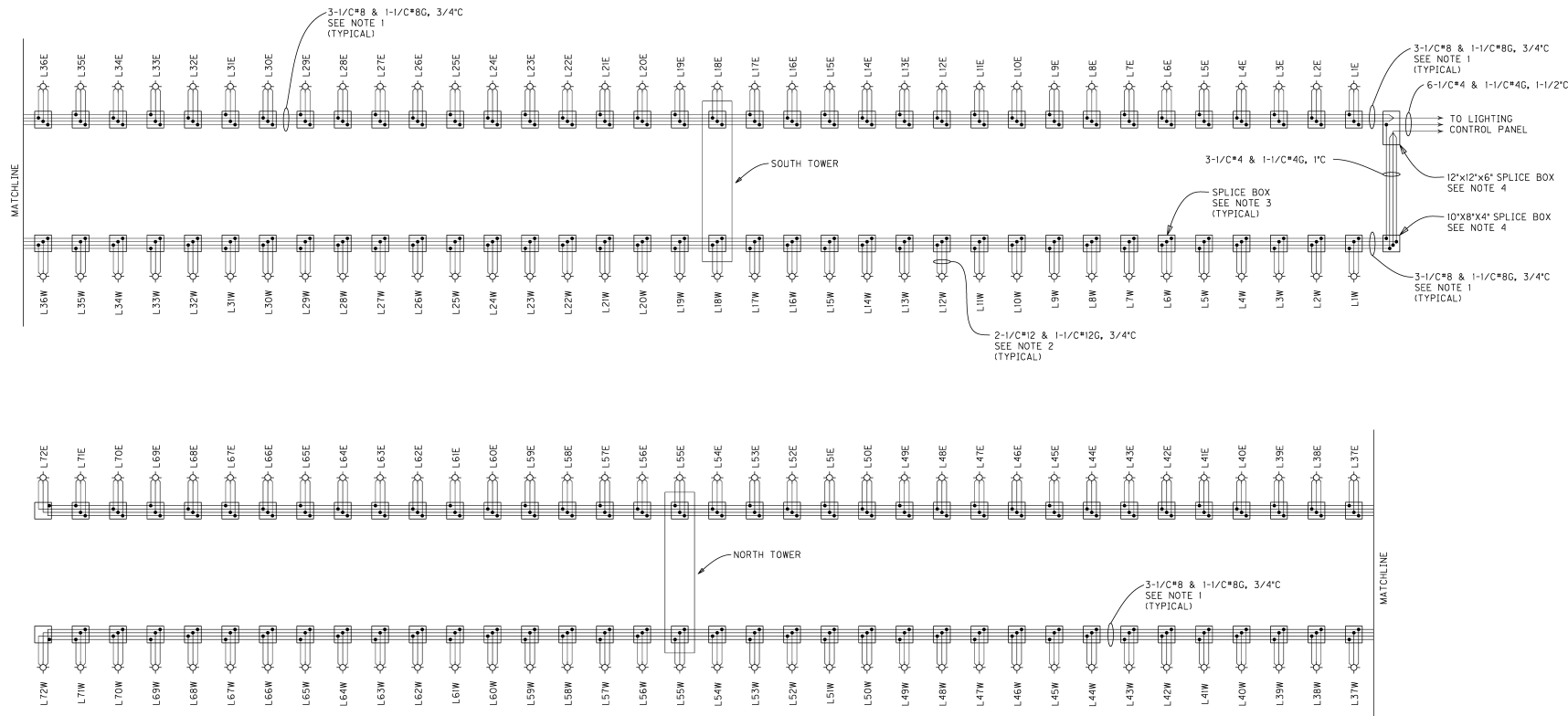
ALL CONDUITS USED FOR GROUNDING, SPARE, AND SERVICE THAT ARE INSTALLED ON THE POLE AND/OR IN/TO THE CABINET ARE INCIDENTAL TO BID ITEM \*4760\*. THIS INCLUDES PROVIDING A MINIMUM OF 24 INCHES OF CONDUIT PAST THE EDGE OF THE WOOD POLE.



SIMON KENTON MEMORIAL BRIDGE  
LIGHTING CONTROL PANEL

FILE NAME: J:\PROJECT\N\N\T\N\5009248 SIMON KENTON BR LIGHTING INSP\DATA-TECH\CONTRACT PLAN AND PROPOSAL\CONTRACT PLAN SET\1006000.DWG  
USER: amandawebbing  
DATE PLOTTED: June 21, 2016  
E-SHEET NAME: 1006000  
MicroStation v8.0.1.14

COUNTY OF	ITEM NO.	SHEET NO.
MASON	9-1096.00	T5



- NOTES:
1. ALL CABLES FROM SPLICE BOX TO SPLICE BOX MUST BE #8 AWG UNLESS OTHERWISE NOTED.
  2. ALL CABLES FROM SPLICE BOX TO LED LUMINAIRE MUST BE #12 AWG.
  3. PROVIDE AND INSTALL A BUSSMAN TYPE #HEB-JK SERIES FUSE HOLDER WITH A 0.25 AMP KTK TYPE FUSE FOR PHASE CONDUCTOR. PROVIDE AND INSTALL A BUSSMAN TYPE #HET-JK SERIES FUSE HOLDER WITH SOLID NEUTRAL FOR NEUTRAL CONDUCTOR. INSTALL FUSE CONNECTORS WITH INSULATING BOOTS IN SPLICE BOX OF EACH BRIDGE LED LUMINAIRE.
  4. PROVIDE A 3-PORT TERMINAL SPLICE BLOCK WITH INSULATING COVER, UTILCO #SLWB OR EQUAL, FOR CABLE SPLICES.

SIMON KENTON MEMORIAL BRIDGE  
WIRING DIAGRAM

COUNTY OF	ITEM NO.	SHEET NO.
MASON	9-1096.00	T6

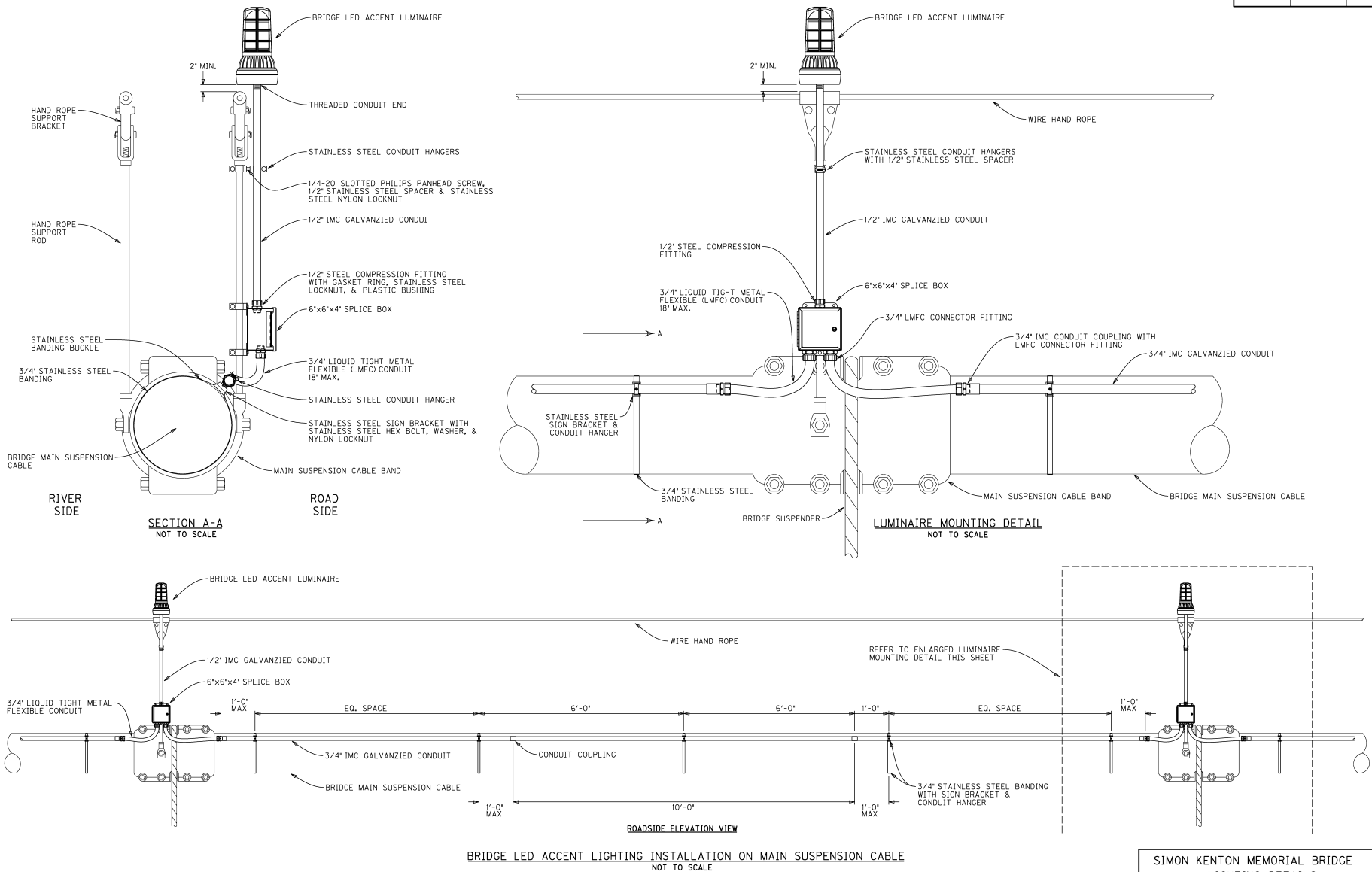
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USER: amano, lighting

E-SHEET NAME: 1060000

DATE PLOTTED: June 21, 2016

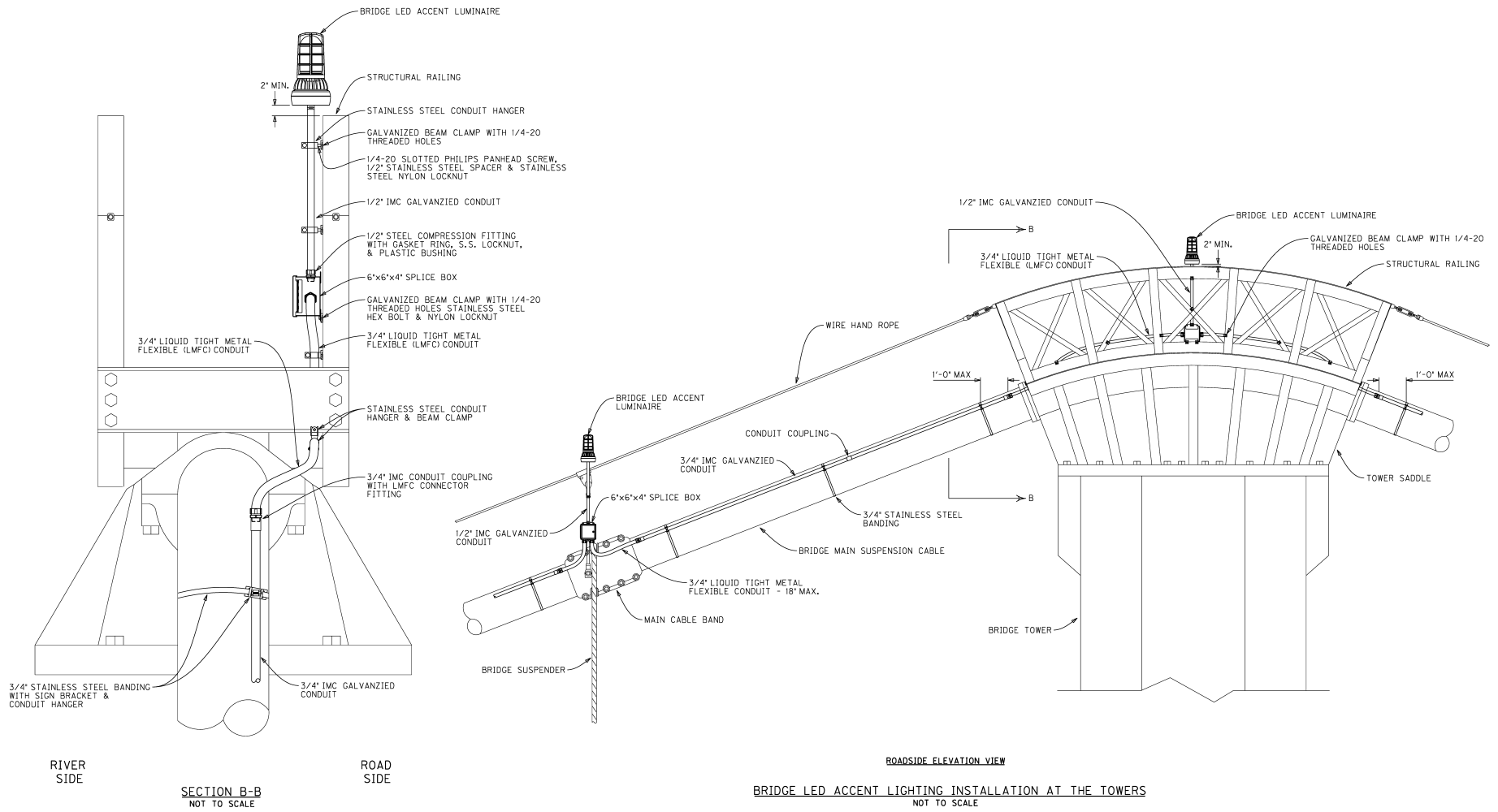
MicroStation v8.11.14



SIMON KENTON MEMORIAL BRIDGE  
LIGHTING DETAILS

COUNTY OF	ITEM NO.	SHEET NO.
MASON	9-1096.00	17

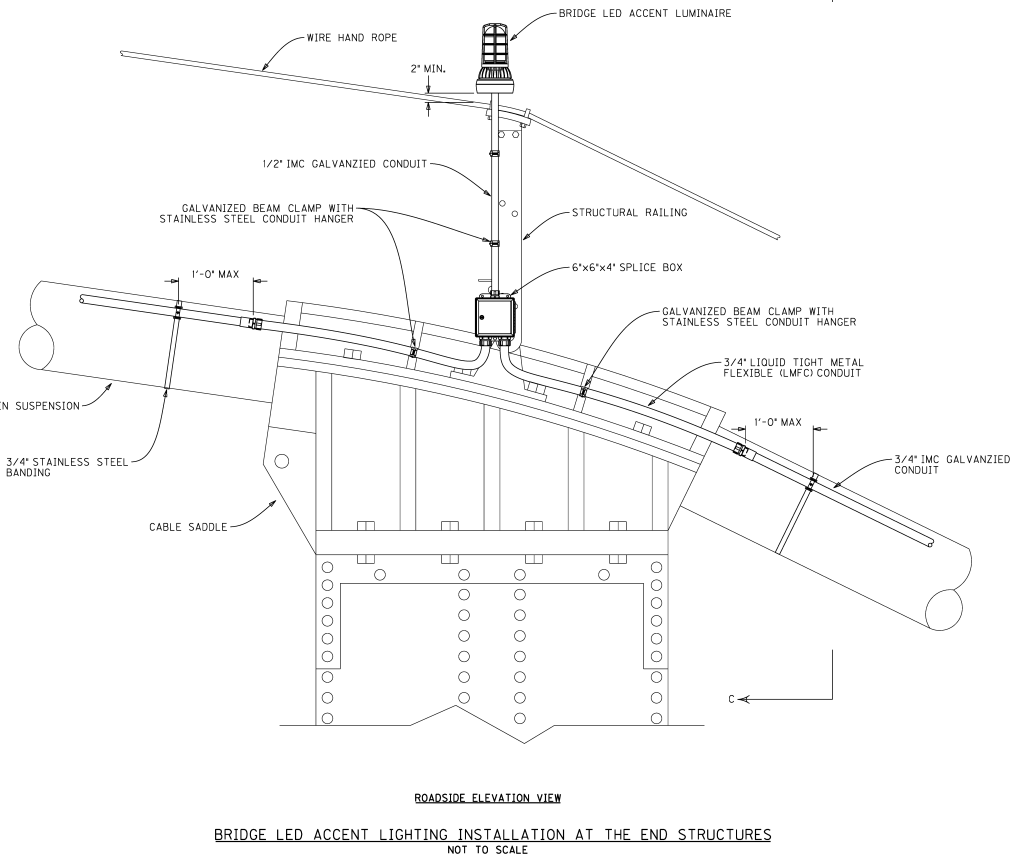
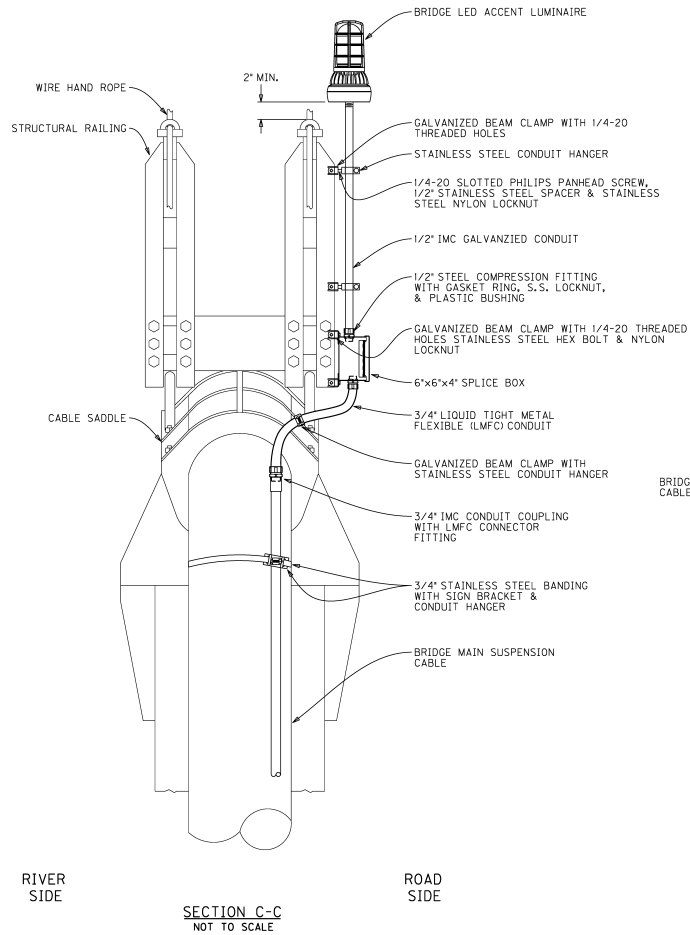
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USER: amehd\amh  
DATE PLOTTED: June 21, 2016  
E-SHEET NAME: 10070000  
MicroStation v8.11.14



SIMON KENTON MEMORIAL BRIDGE  
LIGHTING DETAILS



COUNTY OF	ITEM NO.	SHEET NO.
MASON	9-1096.00	T8

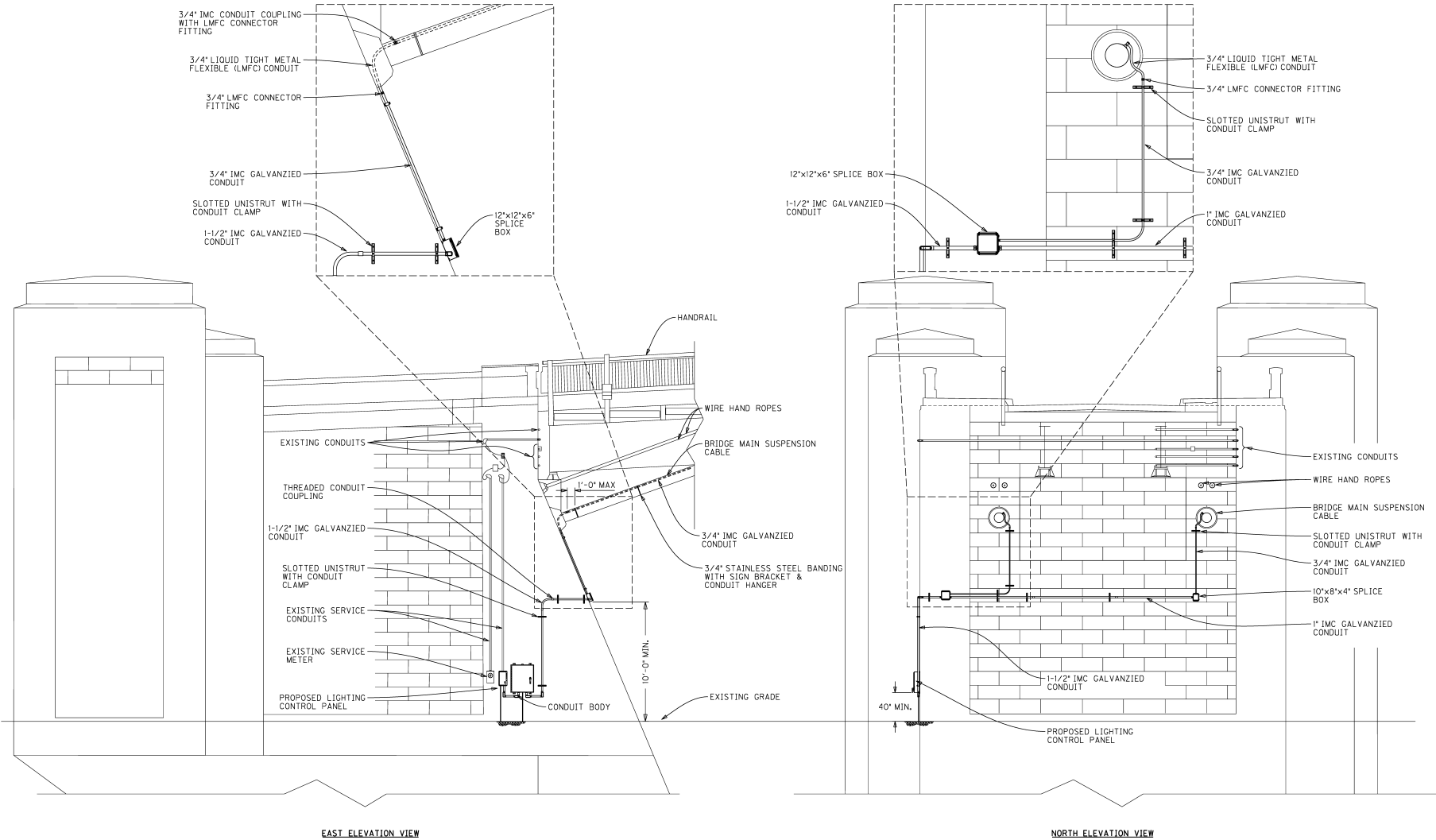


SIMON KENTON MEMORIAL BRIDGE  
LIGHTING DETAILS

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E-SHEET NAME: T08R0001  
USER: amonogalbert  
DATE PLOTTED: June 21, 2016  
MicroStation v8.i15.114

FILE NAME: J:\PROJECT\N\K\T\5009248 SIMON KENTON BR LIGHTING INSP\DATA-TECH\CONTRACT PLAN AND PROPOSAL\CONTRACT PLAN SET\10509248.DWG  
USER: amc@mcgill.com  
DATE PLOTTED: June 21, 2016  
E-SHEET NAME: 10509248  
MicroStation v8.11.5.174

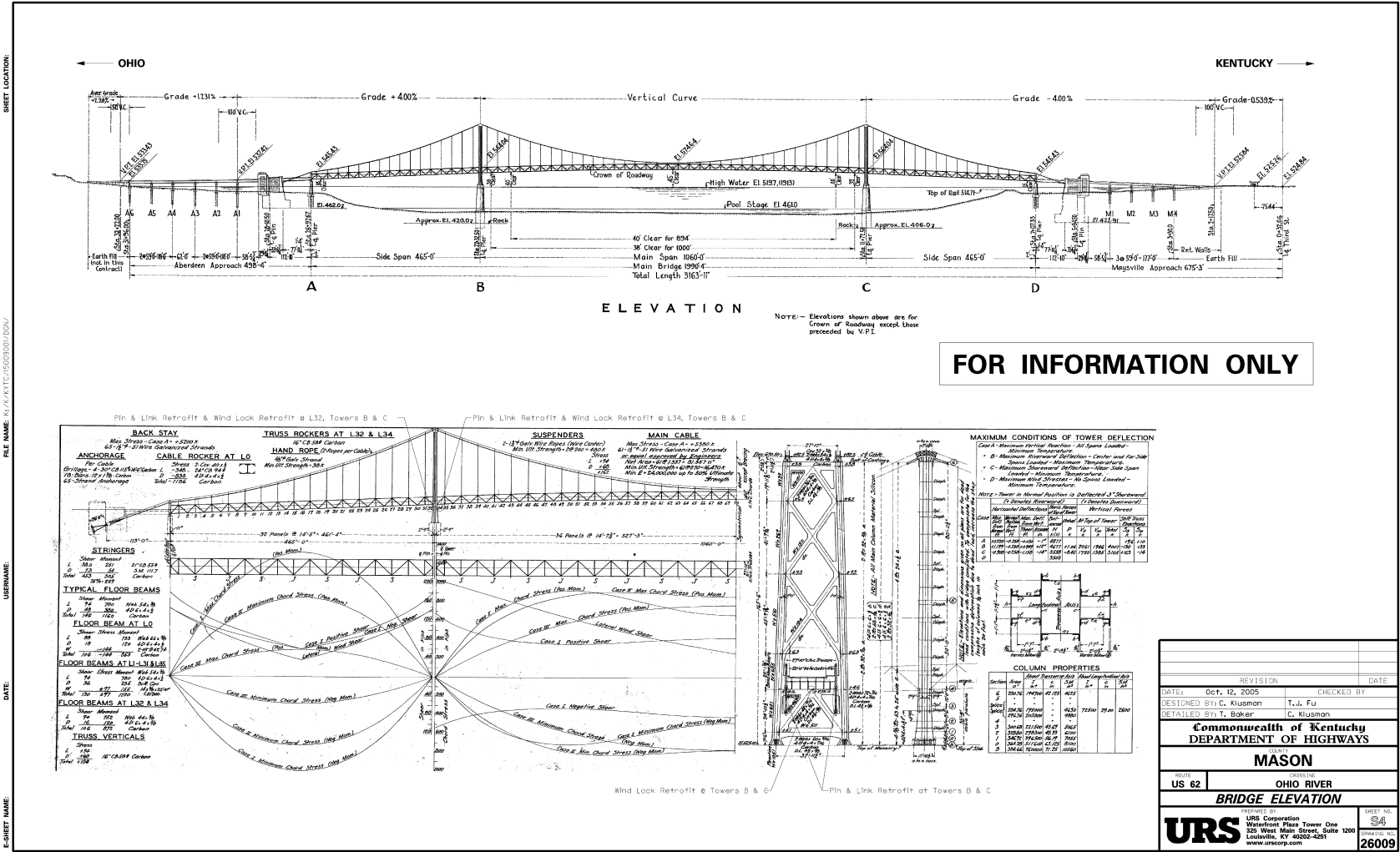
COUNTY OF	ITEM NO.	SHEET NO.
MASON	9-1096.00	T9



BRIDGE LED ACCENT LIGHTING INSTALLATION AT MAYSVILLE ANCHORAGE HOUSE  
NOT TO SCALE

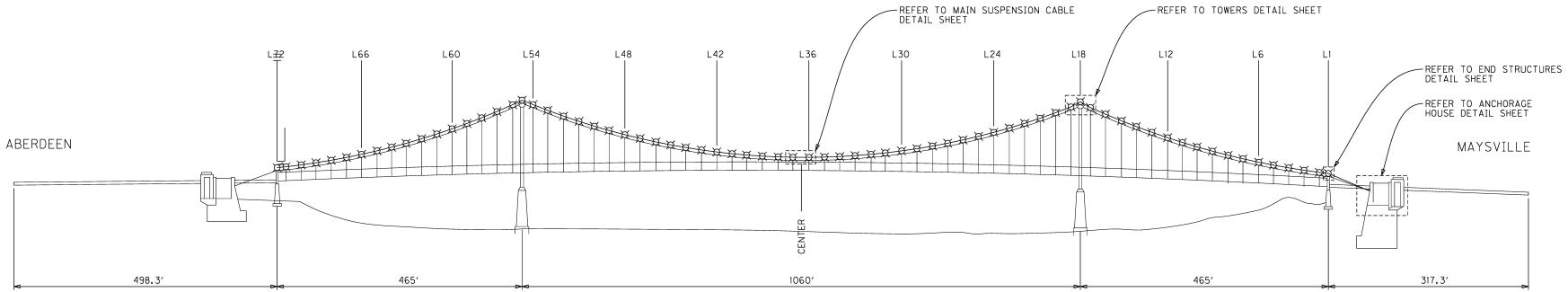
SIMON KENTON MEMORIAL BRIDGE  
LIGHTING DETAILS

COUNTY OF	ITEM NO.	SHEET NO.
MASON	9-1096.00	T10

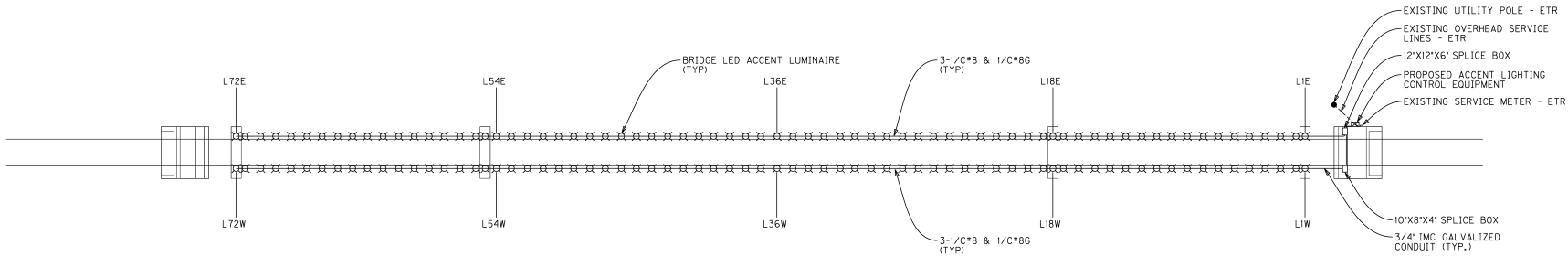


SIMON KENTON MEMORIAL BRIDGE ELEVATION

COUNTY OF	ITEM NO.	SHEET NO.
MASON	9-1096.00	III

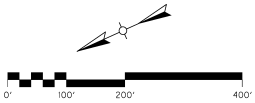


ELEVATION VIEW



PLAN VIEW

LEGEND	
	30W BRIDGE ACCENT LED LUMINAIRES
	LUMINAIRE IDENTIFICATION
	WALL MOUNTED LIGHTING CABINET
	LIGHTING SPLICE BOXES (TYPES AS DESIGNATED)
	3/4" INTERMEDIATE METAL CONDUIT (IMC) (UNLESS OTHERWISE NOTED)
	EXISTING AERIAL CONDUCTORS
	EXISTING WOOD SERVICE POLE
ETR	EXISTING TO REMAIN



SIMON KENTON MEMORIAL BRIDGE ELEVATION

FILE NAME: J:\PROJECT\N\75\15005248 SIMON KENTON BR LIGHTING\DATA-1-TECH\CONTRACT PLAN AND PROPOSAL\CONTRACT PLAN SET\101005.DWG  
USER: amc  
DATE PLOTTED: June 21, 2016  
E-SHEET NAME: 101005  
MicroStation v8.11.5.174

MicroStation v8.11.5.174 E-SHEET MAKE: 10/20/2016P USER: amandawellington DATE PLOTTED: June 21, 2016 FILE NAME: J:\PROJECT\X\KTC\1505246 SIMON KENTON BR LIGHTING INSP\DATA-TECH\CONTRACT PLAN AND PROPOSAL\CONTRACT PLAN SET\10202016P.DGN

TRAFFIC CONTROL GENERAL NOTES

ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE STANDARD DRAWINGS AND THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. EXCEPT AS PROVIDED HEREIN, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE STANDARD DRAWINGS. EXCEPT FOR THE ROADWAY AND TRAFFIC CONTROL BID ITEMS LISTED, ALL ITEMS OF WORK NECESSARY TO MAINTAIN AND CONTROL TRAFFIC UNTIL COMPLETION OF THE WORK WILL BE PAID AT THE LUMP BID PRICE TO "MAINTAIN AND CONTROL TRAFFIC".

THE RELOCATION OF SIGNS FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION, INCLUDING MOUNTING HARDWARE AND POSTS, SHALL BE INCIDENTAL TO OTHER ITEMS OF WORK. CHANGES IN THE TRAFFIC CONTROL PLAN WILL REQUIRE APPROVAL OF THE ENGINEER.

ANY MAJOR CHANGE OR ALTERNATE TEMPORARY TRAFFIC CONTROL PLAN MUST SUBMIT TO THE SAME LEVEL OF TRAFFIC IMPACT ANALYSIS AS WAS REQUIRED FOR THE INITIAL TMP. THE CONTRACTOR WILL NOT BE PERMITTED TO IMPLEMENT ANY PART OF HIS/HER ALTERNATE PLAN OR REVISION UNTIL HE/SHE HAS RECEIVED WRITTEN APPROVAL FROM THE CABINET. ALL MAJOR REVISIONS TO THE TEMPORARY TRAFFIC CONTROL PLAN SHALL BE REVIEWED AND APPROVED BY THE INITIAL SIGNERS TO THE SUBJECT PLAN BEFORE ANY REVISION IS IMPLEMENTED.

PUBLIC INFORMATION PLAN (PIP)

KYTC DISTRICT 9 PUBLIC INFORMATION OFFICER (PIO) WILL INFORM THE MOTORING PUBLIC AND AREA STAKEHOLDERS OF PROJECT INFORMATION INCLUDING MAINTENANCE OF TRAFFIC. THE DISTRICT PUBLIC INFORMATION OFFICER WILL COORDINATE AND DISSEMINATE TO STAKEHOLDERS AND THE MEDIA APPROPRIATE INFORMATION REGARDING THE CONSTRUCTION PLANS. PRIOR TO CONSTRUCTION, SIGNS SHALL BE IN PLACE PER APPLICABLE STANDARD DRAWING(S) AND/OR AS DIRECTED BY THE ENGINEER OVER THE PROJECT LIMITS.

SPECIAL NOTES

BRIDGE CLOSURE

NO DIRECT PAYMENT WILL BE MADE FOR ANY LANE CLOSURE(S) IN PLACE FOR GREATER THAN THREE (3) CONSECUTIVE DAYS. THIS ITEM IS INCIDENTAL TO MAINTAIN & CONTROL TRAFFIC AND NO DIRECT PAYMENT WILL BE MADE FOR CLOSURE.

CLOSURE WILL NOT BE PERMITTED DURING PEAK TRAFFIC HOURS BETWEEN THE HOURS OF 6:00 A.M. AND 9:00 A.M. AND 3:00 P.M. AND 6:00 P.M. MONDAY THROUGH FRIDAY. CLOSURE WILL ALSO NOT BE PERMITTED DURING HOLIDAYS OR SPECIAL EVENTS DETERMINED BY THE DISTRICT AND/OR THE ENGINEER. PRIOR TO CLOSURE OF THE BRIDGE, THE CONTRACTOR WILL GIVE A MINIMUM OF TEN (10) DAYS NOTICE IN WRITING AND APPROVAL MUST BE OBTAINED FROM THE ENGINEER.

WHILE BRIDGE CLOSURE IS IN PLACE, ALL PEDESTRIAN ACCESS SHALL BE RESTRICTED.

FAILURE TO COMPLETE WORK ON TIME

FOR EACH CALENDAR DAY BEYOND THE AGREED UPON COMPLETION DATE OF 60 WORKING DAYS, THE DEPARTMENT WILL ASSESS LIQUIDATED DAMAGES PER SECTION 108.09 OF THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

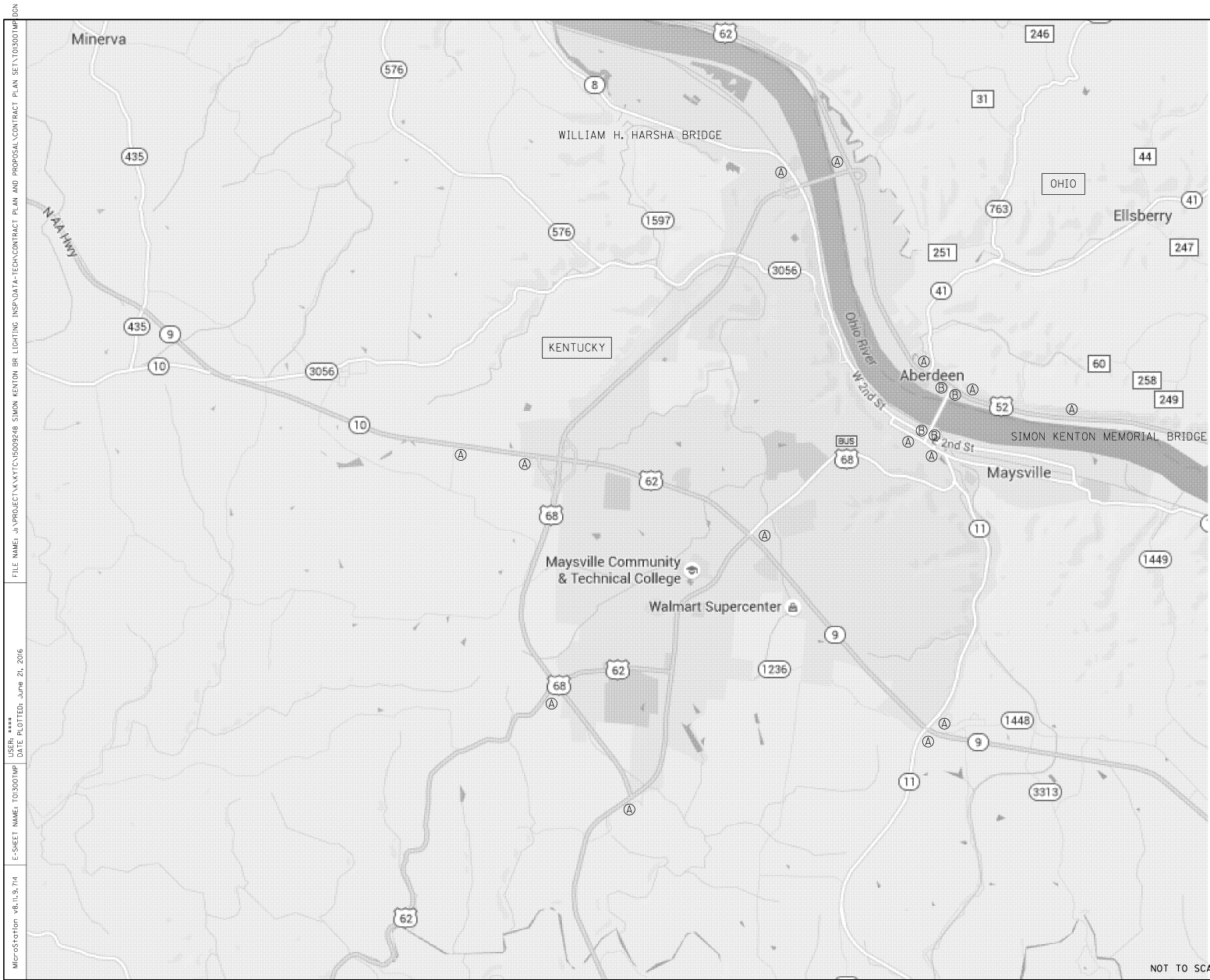
LOCAL ACCESS AND TEMPORARY ENTRANCES

THE CONTRACTOR WILL BE REQUIRED TO PROVIDE REASONABLE ACCESS, IN THE OPINION OF THE ENGINEER, TO ALL APPROACHES AND ENTRANCES WITHIN THE PROJECT LIMITS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE CONTINUOUS ACCESS TO ALL PROPERTIES.

SAFETY BOAT REQUIREMENT

THE CONTRACTOR WILL BE REQUIRED TO HAVE A SAFETY BOAT IN THE WATER AT ALL TIMES WHEN WORK IS BEING PERFORMED.

COUNTY OF	ITEM NO.	SHEET NO.
MASON	9-1096.00	T12



COUNTY OF	ITEM NO.	SHEET NO.
MASON	9-1096.00	T13



PORTABLE CHANGEABLE MESSAGE SIGN  
A

**ROAD CLOSED**

R11-3b  
(48" x 30")



TYPE III BARRICADE

(TWO SETS OF TWO BARRICADES AT EACH LOCATION)  
B

NOTE: CLOSURE WILL NOT BE PERMITTED DURING PEAK TRAFFIC HOURS BETWEEN THE HOURS OF 6:00 A.M. AND 9:00 A.M. AND 3:00 P.M. AND 6:00 P.M. MONDAY THROUGH FRIDAY. CLOSURE WILL ALSO NOT BE PERMITTED DURING HOLIDAYS OR SPECIAL EVENTS DETERMINED BY THE DISTRICT AND/OR THE ENGINEER. PRIOR TO CLOSURE OF THE BRIDGE, THE CONTRACTOR WILL GIVE A MINIMUM OF TEN (10) DAYS NOTICE IN WRITING AND APPROVAL MUST BE OBTAINED FROM THE ENGINEER.

SIMON KENTON MEMORIAL BRIDGE  
DETOUR MAP

NOT TO SCALE

FILE NAME: J:\PROJECT\KAY\TC\505246 SIMON KENTON BR LIGHTING INSPECTION-TECHCONTRACT PLAN SET\T030010.DWG

E-SHEET NAME: T030010.DWG USER: \*\*\*\*

MicroStation: 48, U.S. 714 DATE PLOTTED: June 21, 2016