

08/06/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

ROUTE	STATE
D	MO

COUNTY
ST. LOUIS


CONTRACT ID.
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BRIDGE NO.

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3/3/2020

ITS CONDUIT & CABLE											
CONDUIT (WITH #10 LOCATOR WIRE)							CABLE (ALL CABLE SHALL CONFORM TO IMSA 20-1 STANDARDS)				
FROM	TO	CENTER TO CENTER DISTANCE	TRENCHED	PUSHED	STRUCTURE	REMARKS	FROM	TO	CENTER TO CENTER DISTANCE	FIBER, 24 STRAND SM	REMARKS
			2"	2"	2"						
			(LF)	(LF)	(LF)					(LF)	
PENNSYLVANIA SIGNAL CONTROLLER	STA. 100+07.77, 38.46' RT	11	14				SUTTER SIGNAL CONTROLLER	OGDEN SIGNAL CONTROLLER	1748	1914	INCLUDES SLACK
ITS-1	ITS-2	80		78							
ITS-2	SUTTER SIGNAL CONTROLLER	18	21								
ITS-2	EXIST. SUTTER ITS PB	135		133							
STA 145+03.36, 40.33' RT	STA. 150+25.00, 40.34' RT	134			134	534					
OGDEN SIGNAL CONTROLLER	STA. 156+37.20, 34.14' RT	4	7								
TOTAL			42	211	134	534	SUB TOTAL			1914	
							5% FOR SNAKING			2010	
							TOTAL			2010	

ITS NETWORKING EQUIPMENT							
LOCATION	WALL-MOUNTED INTERCONNECT CENTER	SM F.O. PIGTAIL	SM F.O. JUMPER	SM F.O. FUSION SPLICE	RELOCATE COMMUNICATION EQUIPMENT	INSTALL MODOT FURNISHED IP- ADDRESSABLE POWER STRIP	REMARKS
	(EA)	(EA)	(EA)	(EA)	(EA)	(EA)	
PENNSYLVANIA AVE INTERSECTION	1	4	4	6	1	1	
SUTTER AVE INTERSECTION	1	4	4	4	1	1	
OGDEN AVE INTERSECTION	1	4	4	4	1	1	
TOTAL	3	12	12	14	3	3	

ITS ASSET MANAGEMENT TOOL	
TOTAL	1 LUMP SUM

MODOT ITS ASSETS RELOCATION	
TOTAL	500 LF

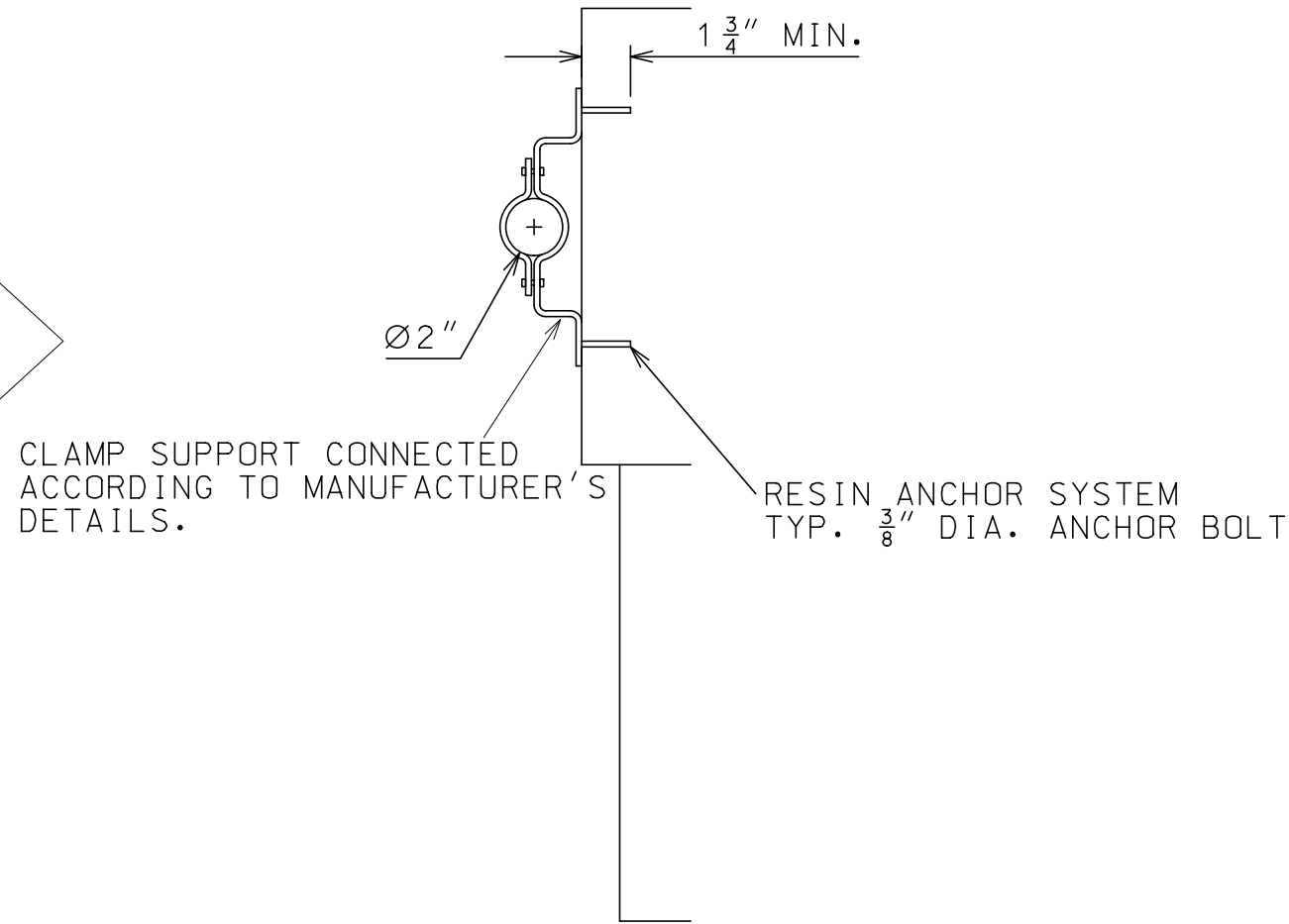
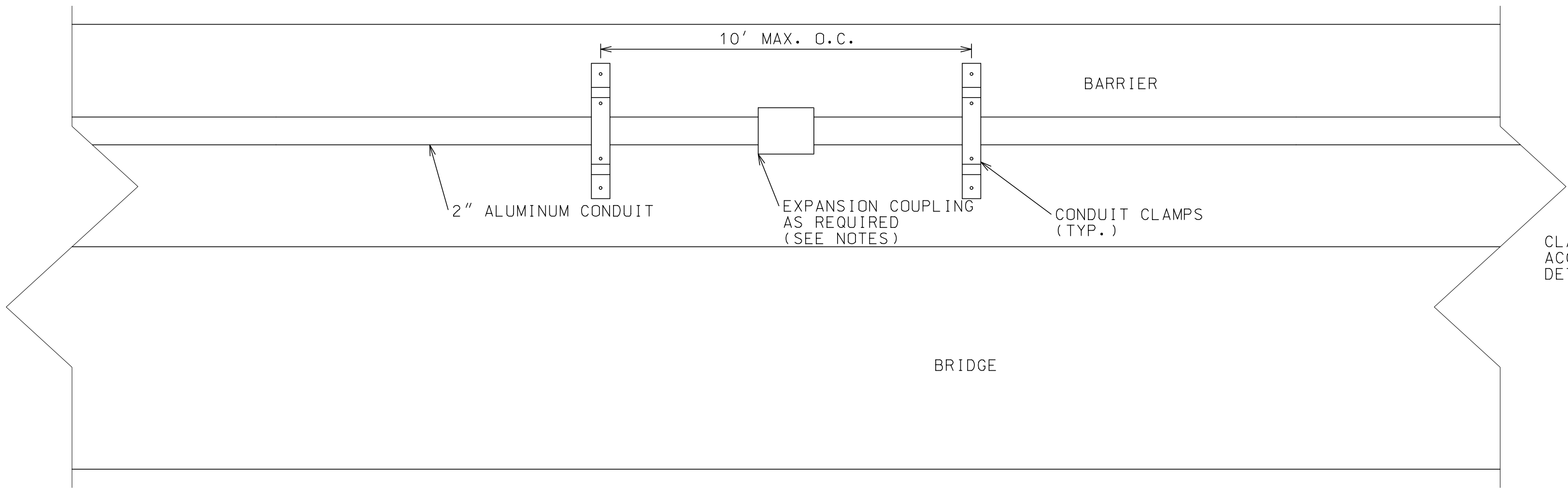
REMOVAL OF EXISTING FIBER OPTIC CABLE	
TOTAL	1 LUMP SUM

CONDUIT REPAIR	
TOTAL	100 LF

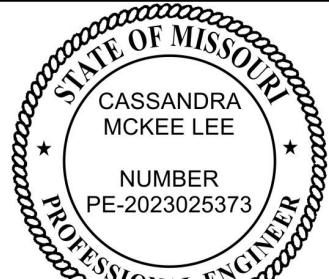
ITS PULL BOXES										
	LOCATION						DRAIN TYPE			
ITS PULL BOX NUMBER	ROADWAY	STATION	OFFSET	INTERCEPT CONDUIT WITH PULL BOX	INSTALL CONDUIT INTO EXISTING BOX	ITS PULL BOX WITH CONCRETE PAD, PREFORMED CLASS 5	I	II		
				(EA)	(EA)	(EA)		A	B	C
EXIST. PENNSYLVANIA	RTE D	100+07.77	38.46' RT		1					
ITS-1	RTE D	138+92.05	28.90' RT	1		1	1			
ITS-2	RTE D	139+44.00	32.33' LT			1	1			
EXIST. SUTTER	RTE D	140+47.27	54.7' RT		1					
EXIST. OGDEN	RTE D	156+37.20	34.14' RT		1					
TOTAL				1	3	2				

ROUTE D

LIGHTING AND ITS
SHEET 25 OF 27



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08/06/2025
Cassandra McKee Lee - Civil
MO PE-2023025373

DATE PREPARED
8/6/2025

ROUTE D STATE MO

DISTRICT SL SHEET NO. 149

COUNTY
ST. LOUIS

JOB NO.
J6S3215B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

GENERAL NOTES:

ALL MAIN CONDUIT SHALL BE 2" RIGID ALUMINUM.

EACH SECTION OF CONDUIT SHALL BEAR THE UNDERWRITER'S LABORATORIES, INC. (UL) LABEL.

CONCRETE ANCHORS FOR CONDUIT CLAMPS SHALL BE NON-DRILLING EXPANSION TYPE FOR 3/8" BOLTS. ANCHORS FOR BRACKETS SHALL BE IN ACCORDANCE WITH FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS 1 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM-153. B695-91 CLASS 50 OR SHALL BE STAINLESS STEEL. ANCHORS SHALL HAVE A CERTIFIED CONCRETE PULLOUT STRENGTH (ULTIMATE LOAD) OF 10,200 POUNDS IN 3,000psi CONCRETE. THE SUPPLIER SHALL BE REQUIRED TO FURNISH A MANUFACTURER'S CERTIFICATION THAT THE CONCRETE ANCHORS MEET THE REQUIRED MATERIAL AND GALVANIZING SPECIFICATIONS.

HOLES FOR CONCRETE ANCHORS SHALL BE PRE-DRILLED WITH A CONVENTIONAL CARBIDE MASONRY BIT. MINIMUM EMBEDMENT IN CONCRETE SHALL BE 1 3/4". LOCATE REINFORCEMENT IN CONCRETE WITH A PACHOMETER AND EXERCISE EXTREME CAUTION DURING DRILLING.

ALL MOUNTING BOLTS SHALL BE STAINLESS STEEL.

EXPANSION COUPLINGS SHALL BE INSTALLED ALONG THE 2" CONDUIT AT ALL JOINTS IN THE CONCRETE, HALFWAY BETWEEN GIRDERS, OR HALFWAY ALONG BRIDGE. COUPLINGS SHALL PROVIDE A MINIMUM MOVEMENT OF 2" IN EITHER DIRECTION. EXPANSION COUPLINGS SHALL

BE EQUAL TO CARLON ELECTRICAL CONSTRUCTION PRODUCTS OR TRIANGLE CONDUIT AND CABLE COMPANY, INC.

CONDUIT TERMINATIONS SHALL BE SEPARABLE.

ALL TERMINATIONS AND COVERS SHALL BE OF WATERTIGHT CONSTRUCTION.

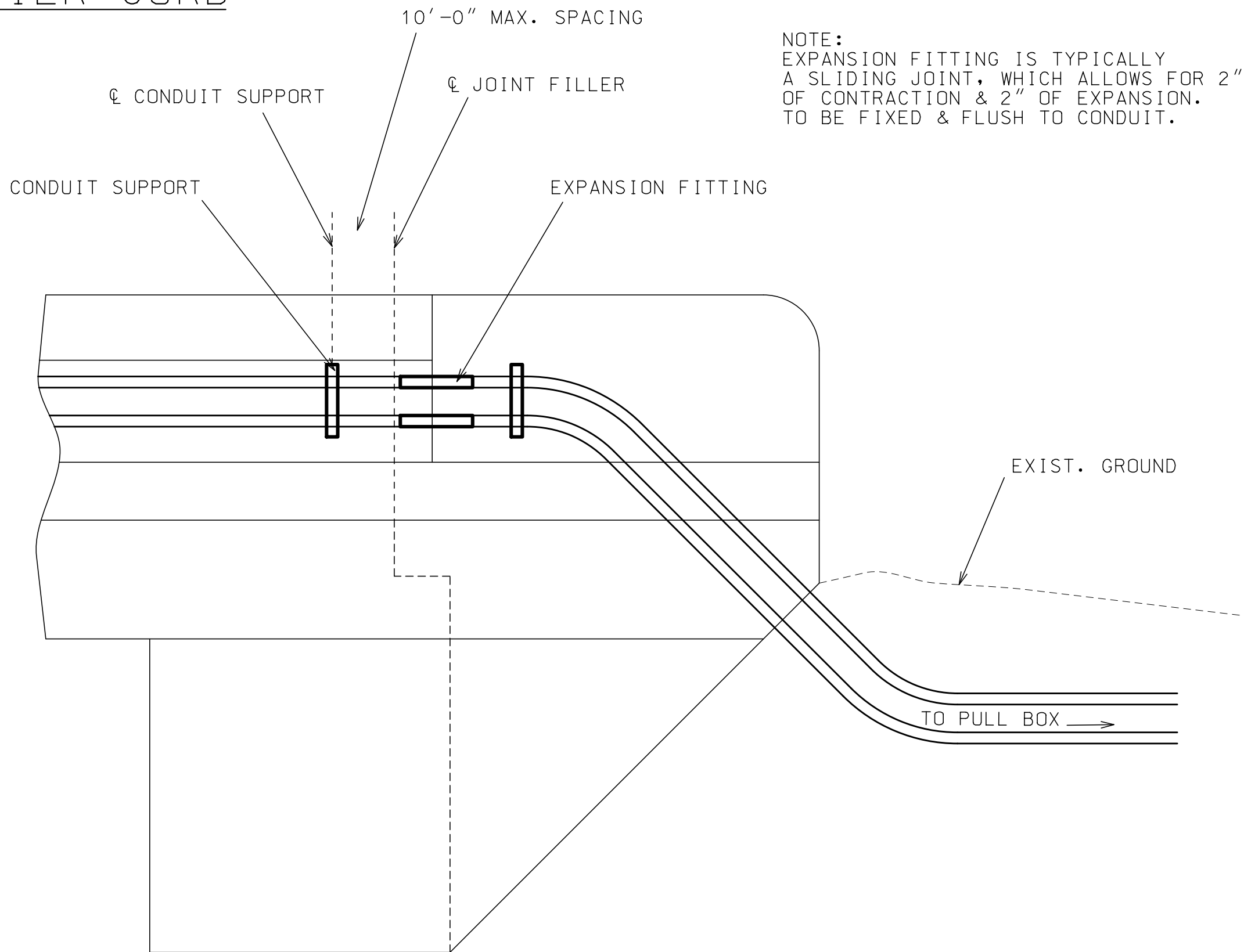
WEEPHOLES SHALL BE PROVIDED AT APPROPRIATE LOCATIONS TO DRAIN ANY MOISTURE IN THE CONDUIT LINES.

ALL JUNCTION BOXES SHALL BE SURFACE MOUNTED. THE COVERS SHALL BE OF WATERTIGHT CONSTRUCTION AND SHALL MEET REQUIREMENTS FOR NEMA 4 ENCLOSURE.

PAYMENT FOR ALL JUNCTION BOXES, CONDUIT, COUPLINGS, ANCHORS, CLAMPS, AND CONNECTIONS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CONDUIT SYSTEM ON STRUCTURE.

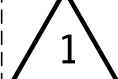
SEE LIGHTING AND ITS SHEETS FOR CONDUIT LOCATION. CONDUIT ON STRUCTURE TO BE PLACED ON OUTSIDE FACE OF EXISTING RIGHT SIDE BARRIER ON BRIDGE A5328.

CONDUIT MOUNTING ON OUTSIDE OF BARRIER CURB



NOTE:
EXPANSION FITTING IS TYPICALLY A SLIDING JOINT, WHICH ALLOWS FOR 2" OF CONTRACTION & 2" OF EXPANSION. TO BE FIXED & FLUSH TO CONDUIT.

ELEVATION OF CONDUIT SYSTEM



DELETED



ADDED

DATE	DESCRIPTION
8/6/25	NOTE REVISIONS

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



CMT
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ST. LOUIS, MO 63102 (314) 436-5500
ENGINEERING CORPORATION - 000631

ROUTE D
LIGHTING AND ITS
SHEET 27 OF 27