

PRAIRIE DELL ROAD IMPROVEMENTS – ADDENDUM #1
City of Union, MO
Federal Project STP-6200(607)
December 1, 2014

This addendum is hereby made part of the contract documents of the above referenced project. This addendum supplements and/or amends the originally issued documents and all related addenda.

Attachments:

- Revised Bid Form
 - Item number 9017004 (Cable, 4 AWG 1 Conductor) was changed to 9017002 (Cable, 2 AWG 1 Conductor).
 - Item number 9017006 (Cable, 6 AWG 1 Conductor) is no longer needed and has been removed.
 - Item number 9017008 (Cable, 8 AWG 1 Conductor) was modified to 5400 LF.
 - Item number 9029100 (Base, Concrete) was modified to 0.03 CY.

- Sheet 2A revised to reflect the updated quantities.

- Sheet 8 revised to correct pipe labels, no change to quantities.

- Sheet 29 revised to reflect direct embedding of light poles.

- Sheet 30 note revised to remove need for ground wire

- Sheet 31 revised to reflect the updated quantities.

- Additional Remarks
 - Polypropylene pipe is allowed as a suitable substitute to reinforced concrete pipes. However, per City of Union ordinances, reinforced concrete pipe shall be required under road pavement.
 - A-Lok connections are not required at pipe connections.

ACKNOWLEDGEMENT OF ADDENDUM #1

The bidder will acknowledge receipt of this Addendum and acceptance of its conditions by signing this Addendum and including it with the bid.

SIGNATURE: _____

TITLE: _____

COMPANY: _____

DATE: _____

ITEMIZED BID FORM

Prairie Dell Road - Phase 1 Improvements

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
	ROADWAY ITEMS:				
2013000	CLEARING AND GRUBBING	LS	1		
2022010	REMOVAL OF IMPROVEMENTS	LS	1		
2031000	CLASS A EXCAVATION	CY	3484		
2036000	COMPACTING EMBANKMENT	CY	1602		
2039907	REMOVAL & REPLACEMENT OF SUBBASE	CY	500		
3040504	TYPE 5 AGGREGATE BASE (4 IN. THICK)	SY	2048		
3040509	TYPE 5 AGGREGATE BASE (9 IN. THICK)	SY	7450		
3101002	GRAVEL (A)	TON	14		
4011209	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1)	TON	1780		
4013000	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE)	TON	1692		
4071005	TACK COAT	GAL	460		
4081010	PRIME-LIQUID ASPHALT RC 70 OR MC 30	GAL	3130		
6039902	ADJUST TO GRADE WATER VALVE	EACH	1		
6049903	ADJUST TO GRADE PULL BOX	EACH	1		
6042010	ADJUSTING MANHOLE	EACH	2		
6081000	CONCRETE MEDIAN	SY	188		
6085007	PAVED APPROACH, 7 IN.	SY	385		
6091010	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S	LF	4742		
6091060	PAVED DITCH	SY	83		
6092011	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE A	LF	205		
6092032	CONCRETE CURB LOW PROFILE TYPE F	LF	286		
6099903	ROLLED CURB AND GUTTER	LF	41		
6161005	CONSTRUCTION SIGNS	SF	176		
6161010	RELOCATED SIGNS	SF	22		
6161028	CHANNELIZER	EACH	50		
6161030	TYPE III MOVABLE BARRICADE	EACH	14		
6181000	MOBILIZATION	LS	1		
6274000	CONTRACTOR FURNISHED SURVEYING AND STAKING	LS	1		
7269903	12" CLASS III REINFORCED CONCRETE PIPE	LF	306		
7269904	15" CLASS III REINFORCED CONCRETE PIPE	LF	1251		
7269905	30" CLASS III REINFORCED CONCRETE PIPE	LF	560		
7269906	36" CLASS III REINFORCED CONCRETE PIPE	LF	315		
7269907	12" CORRUGATED METAL PIPE	LF	32		

ITEMIZED BID FORM

Prairie Dell Road - Phase 1 Improvements

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
7269908	18" CORRUGATED METAL PIPE	LF	57		
7269909	24" CORRUGATED METAL PIPE	LF	24		
7310048	PRECAST CONCRETE MANHOLE - 48 IN	EACH	2		
7310072	PRECAST CONCRETE MANHOLE - 72 IN	EACH	4		
7319904	SINGLE CURB INLET, UNTRAPPED	EACH	6		
7319905	AREA INLET	EACH	6		
7319906	GRATE INLET	EACH	2		
7329902	30 IN. FLARED END SECTION, REINFORCED CONCRETE PIPE	EACH	1		
8061019	SILT FENCE	LF	290		
8061021	TYPE I DITCH CHECK	EACH	33		
8051000A	SEEDING - COOL SEASON MIXTURES	ACRES	2.9		
				SUBTOTAL:	
	SIGNS:				
9039912	CROSSWALK (W11-2A)	EACH	10		
9039913	ARROW (W16-7)	EACH	10		
9039914	YIELD (R1-2)	EACH	9		
9039915	KEEP RIGHT (R4-7)	EACH	4		
9039916	ROUNDAABOUT (W2-6)	EACH	4		
9039917	ROUNDAABOUT LABEL (W2-6A)	EACH	4		
9039918	WHITE CHEVRON (R6-4)	EACH	4		
9039919	BICYCLE WARNING (W11-1)	EACH	4		
9039920	SHARE THE ROAD (W16-1P)	EACH	4		
				SUBTOTAL:	
	PAVEMENT MARKING:				
6205130	TYPE 2 PREFORMED MARKING TAPE (GROOVED), LEFT/RIGHT ARROW	EACH	10		
6205140	TYPE 2 PREFORMED MARKING TAPE (GROOVED), 24 IN. WHITE, YIELD LINE TRIANGLES	EACH	24		
6205303B	PREFORMED REMOVABLE MARKING TAPE 4 IN., YELLOW	LF	400		
6206000B	ACRYLIC WATERBORNE PAVEMENT MARKING PAINT, 4 IN., WHITE	LF	3267		
6206001B	ACRYLIC WATERBORNE PAVEMENT MARKING PAINT, 4 IN., YELLOW	LF	5768		
6206124	ACRYLIC WATERBORNE PAVEMENT MARKING PAINT, 24 IN., WHITE	LF	240		
				SUBTOTAL:	

ITEMIZED BID FORM

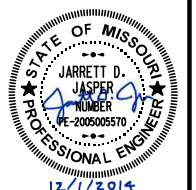
Prairie Dell Road - Phase 1 Improvements

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
	LANDSCAPING/STREETSCAPING:				
8089901	LANDSCAPING	LS	1		
				SUBTOTAL:	
	LIGHTING:				
9013001	CONDUIT, 1 IN. RIGID, IN TRENCH	LF	1800		
9013002	CONDUIT, 2 IN. RIGID, IN TRENCH	LF	175		
9017002	CABLE, 2 AWG 1 CONDUCTOR	LF	525		
0	NOT USED	0	0		
9017008	CABLE, 8 AWG 1 CONDUCTOR	LF	5400		
9017010	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET	LF	1800		
9018610	POWER SUPPLY ASSEMBLY, TYPE 1, 240/120 VOLT SERVICE, LIGHTING ONLY	EACH	1		
9019903	#2 AWG BARE COPPER GROUNDING CONDUCTOR	LF	90		
9019904	150W HPS LIGHT FIXTURE WITH 14' DECORATIVE POLE	EACH	17		
9019905	10'X3/4" COPPER CLAD GROUND ROD	EACH	18		
9029100	BASE, CONCRETE	CY	0.03		
				SUBTOTAL:	
	PEDESTRIAN FACILITIES:				
6081010	CONCRETE CURB RAMP	SY	125		
6081012	TRUNCATED DOMES	SF	290		
6086004	CONCRETE SIDEWALK, 4 IN.	SY	1618		
				SUBTOTAL:	
				TOTAL:	
TOTAL:	WRITTEN:	NUMBERS:			

SUMMARY OF QUANTITIES			
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7329902	30 IN. FLARED END SECTION, REINFORCED CONCRETE PIPE	EACH	1
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8061021	TYPE I DITCH CHECK	EACH	33
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THE PROFESSIONAL ENGINEER'S SEAL AND SIGNATURE SHALL BE PLACED ON THIS SHEET. THE PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT. THE PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT. THE PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE PROJECT.



Name: Jarrett Jasper
 Discipline: Civil Engineer
 License No. 2005005570
 Expiration Date: 12-31-2015

DATE PREPARED
 12/1/2014

JOB NO.
 1224500

FEDERAL PROJECT NO.
 STP-6200(607)

SHEET OF
 2A 56

DATE	DESCRIPTION
12/1/14	ADDENDUM 1

HORNER & SHIFRIN, INC.
ENGINEERS
 5200 OAKLAND AVE., ST. LOUIS, MO 63110
 314-531-4321 FAX: 314-531-6966 www.horner-shifrin.com
 Discipline: Professional Engineering
 Certificate of Authority: 0000159
 Expiration Date: December 31, 2014

PRAIRIE DELL ROAD
 PHASE 1
 SUMMARY OF QUANTITIES
 SHEET 1 OF 1

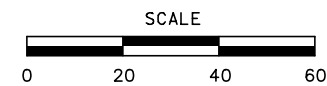
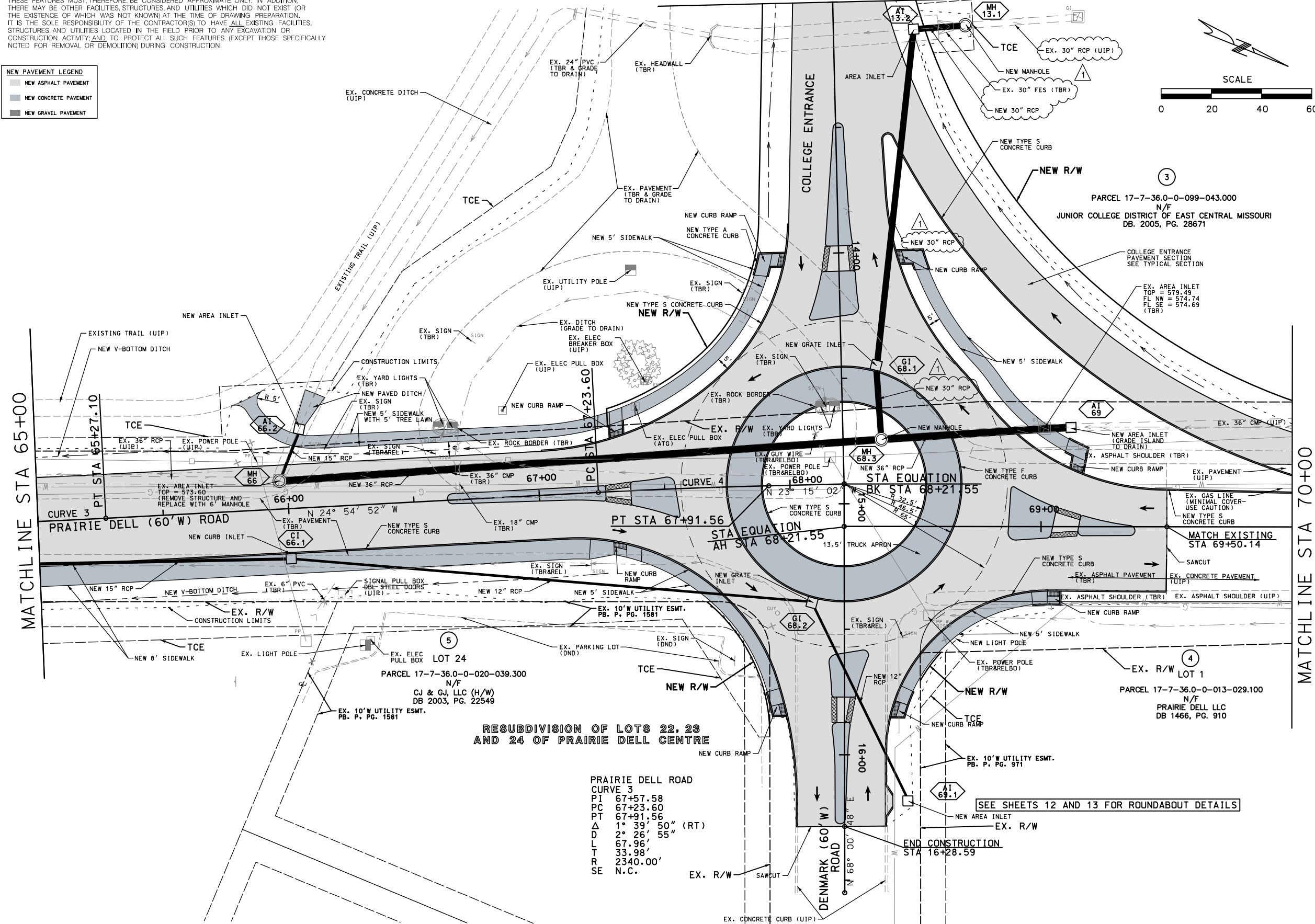
SPECIAL NOTE TO CONTRACTOR(S):

EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED ON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATIONS OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE, ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST (OR THE EXISTENCE OF WHICH WAS NOT KNOWN) AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY AND TO PROTECT ALL SUCH FEATURES (EXCEPT THOSE SPECIFICALLY NOTED FOR REMOVAL OR DEMOLITION) DURING CONSTRUCTION.

NEW PAVEMENT LEGEND

	NEW ASPHALT PAVEMENT
	NEW CONCRETE PAVEMENT
	NEW GRAVEL PAVEMENT

MATCHLINE STA 13+00



PARCEL 17-7-36.0-0-099-043.000
N/F
JUNIOR COLLEGE DISTRICT OF EAST CENTRAL MISSOURI
DB. 2005, PG. 28671

LOT 24
PARCEL 17-7-36.0-0-020-039.300
N/F
CJ & GJ, LLC (H/W)
DB 2003, PG. 22549

RESUBDIVISION OF LOTS 22, 23 AND 24 OF PRAIRIE DELL CENTRE

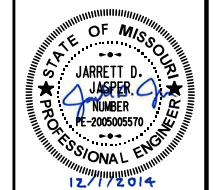
PRAIRIE DELL ROAD
CURVE 3

PI	67+57.58
PC	67+23.60
PT	67+91.56
Δ	1° 39' 50" (RT)
D	2° 26' 55"
L	67.96'
T	33.98'
R	2340.00'
SE	N.C.

SEE SHEETS 12 AND 13 FOR ROUNDABOUT DETAILS

END CONSTRUCTION
STA 16+28.59

THE PROFESSIONAL ENGINEER'S SEAL AND SIGNATURE SHALL BE PLACED IN THE UPPER RIGHT CORNER OF THIS SHEET. THE PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND SURVEYS PROVIDED TO HIM BY THE CLIENT. THE PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND SURVEYS PROVIDED TO HIM BY THE CLIENT. THE PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND SURVEYS PROVIDED TO HIM BY THE CLIENT.



Name: Jarrett Jasper
Discipline: Civil Engineer
License No. 200505570
Expiration Date: 12-31-2015

DATE PREPARED
12/1/2014

JOB NO.
1224500

FEDERAL PROJECT NO.
STP-6200(607)

SHEET OF
8 56

DATE	DESCRIPTION
12/1/14	ADDENDUM 1

HORNER & SHIFRIN, INC.
ENGINEERS

5200 OAKLAND AVE., ST. LOUIS, MO 63108
314-531-4321 FAX: 314-531-6966 www.HornerShifrin.com
Disciplines: Professional Engineering
Certification of Authority: 0200159
Expiration Date: December 31, 2014

PRAIRIE DELL ROAD
PHASE 1
PLAN AND PROFILE
SHEET 4 OF 6

THE PROFESSIONAL ENGINEER'S SEAL AND SIGNATURE SHALL BE PLACED IN THE UPPER RIGHT CORNER OF THIS SHEET. ALL OTHER PARTS, SPECIFICATIONS, REPORTS, AND OTHER DOCUMENTS SHALL BE REVIEWED BY CONTRACTOR, OWNER OR OTHERS AND NOT PART OF THE PROJECT FOR WHICH THIS SEAL INDICATES RESPONSIBILITY.



Name: John C. Frisch
 Discipline: Professional Engineer
 License No.: 2007020266
 Expiration Date: 12-31-2015

DATE PREPARED
 12/1/2014

JOB NO.
 1224500

FEDERAL PROJECT NO.
 STP-6200(607)

SHEET OF
 29 56

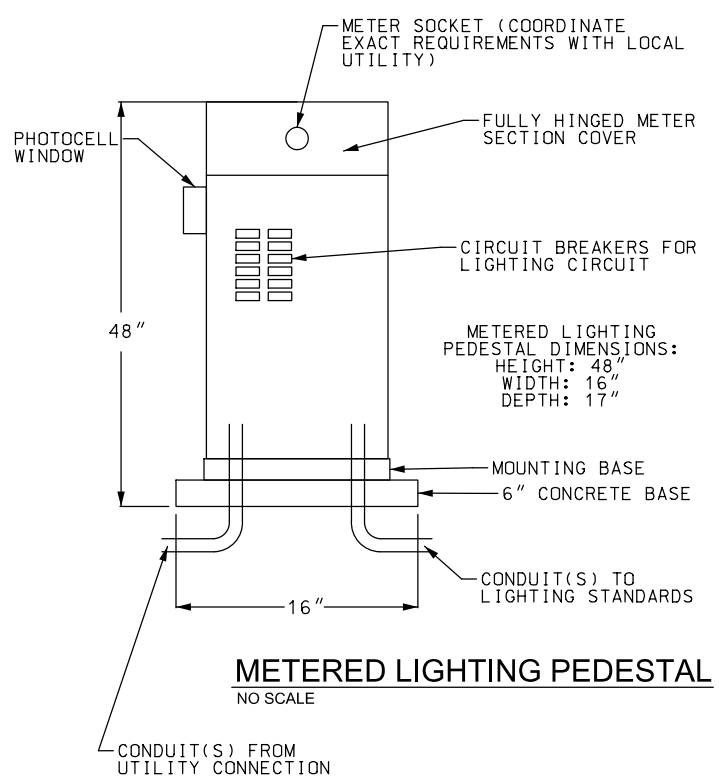
DATE	DESCRIPTION
12/1/14	ADDENDUM 1

HORNER & SHIFRIN, INC.
ENGINEERS
 5200 OAKLAND AVE., ST. LOUIS, MO 63110
 314-531-4321 FAX: 314-531-6966 www.HornerShifrin.com
 Discipline: Professional Engineering
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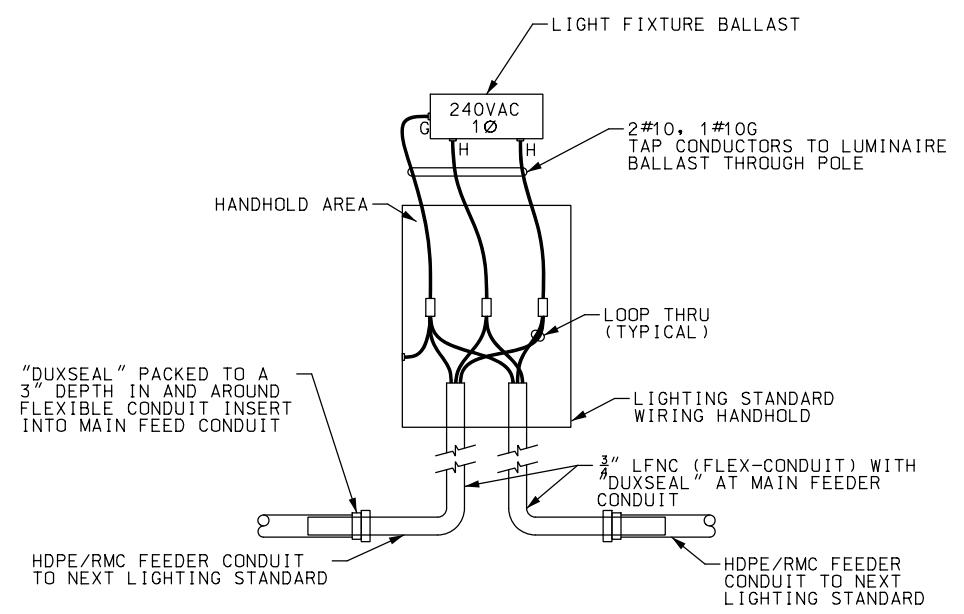
PRAIRIE DELL ROAD
 PHASE 1
 LIGHTING DETAILS
 SHEET 1 OF 4

**UTILITY BOX DETAIL
 KEYED NOTES (THIS SHEET ONLY):**

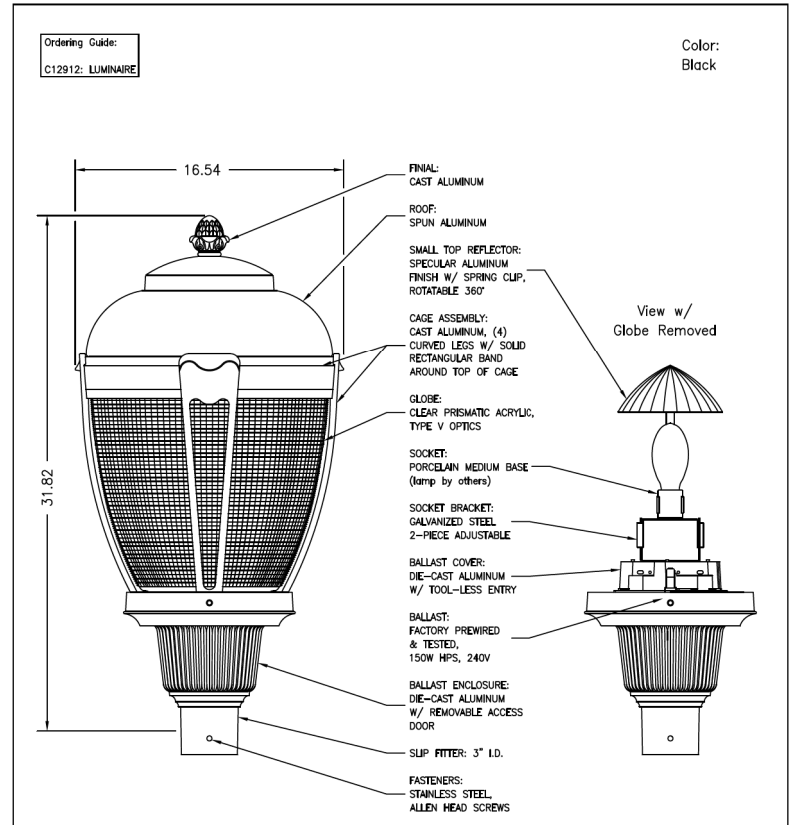
- △ SAW CUT AND BREAK OUT AN APPROXIMATE 3'W X3'L SQUARE SECTION OF EXISTING SIDEWALK SLAB FOR UTILITY BOX INSTALLATION (TYPICAL).
- △ LAKELANDS #PB1820 1'-6" DIAMETER X 20" DEEP UTILITY BOX W/CAST IRON FRAME AND COVER WITH "STREET LIGHTING" LOGO. ALL UTILITY BOXES SHALL BE LOCATED IN CITY OF UNION RIGHT OF WAY. UTILITY BOXES SHALL NOT BE INSTALLED IN STREET OR ALLEY WAYS.
- △ GROMMET/INSULATING BUSHING ON ENDS OF ALL CONDUITS WITHIN UTILITY BOXES FOR PROTECTION OF CONDUCTOR INSULATION.
- △ CONCRETE ENCASUREMENT AROUND PERIMETER OF UTILITY BOX WITH APPROXIMATELY SEVEN CUBIC FEET OF 4000PSI RATED CONCRETE TINTED AND FINISHED TO MATCH SURROUNDING WALKWAY.
- △ CONDUIT TO LIGHTING STANDARD OR NEXT UTILITY BOX.
- △ CONDUIT TO LIGHTING STANDARD OR PREVIOUS UTILITY BOX.
- △ CONDUIT TO LIGHTING STANDARD OR OTHER UTILITY BOX.
- △ GRAVEL BED FOR UTILITY BOX.
- △ 1/2" WIDE EXPANSION JOINT MATERIAL BETWEEN CONCRETE POUR AND EXISTING CONCRETE SIDEWALK.



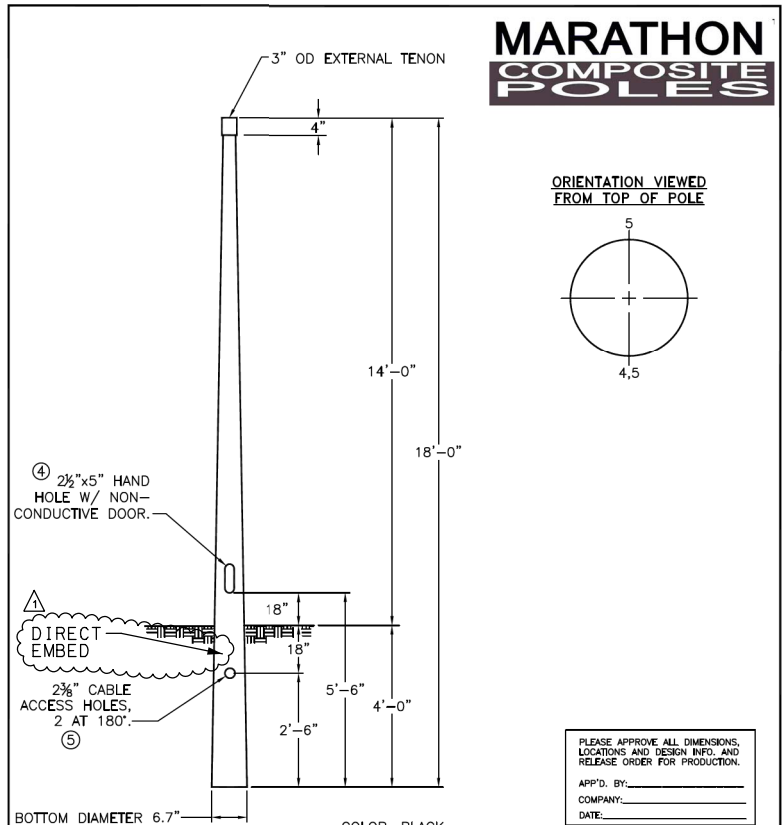
METERED LIGHTING PEDESTAL
 NO SCALE



2 STREET LIGHT WIRING DETAIL
 SCALE: N.T.S.

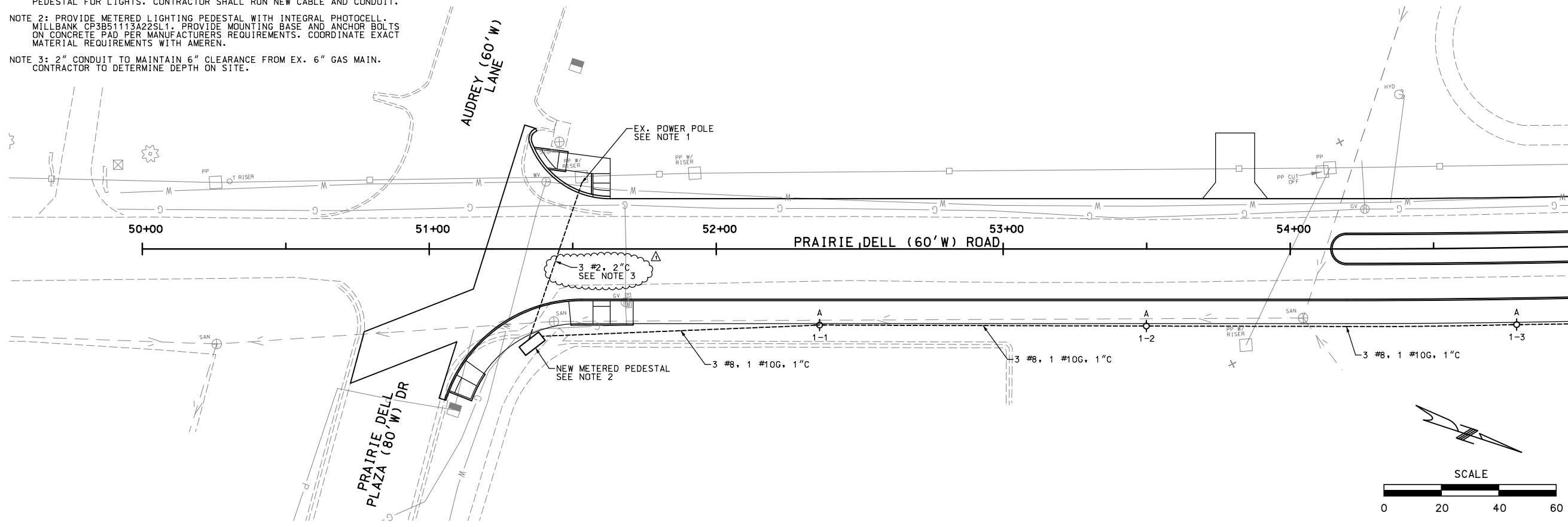


Full Specification Fixture Drawing		PHILIPS HADCO		100 Craftway Drive Littlestown, Pa 17340 Phone 800-331-4185 Fax 717-359-9289 www.hadco.com	
NOTICE: THIS DRAWING IS FOR REFERENCE ONLY. CHECK FOR LATEST REVISION PRIOR TO ORDERING.		JOB NAME: Prairie Dell Road	REP. TERRITORY: 15		
SCALE: 1:6	DATE: 07/25/14	DRAWN BY: SMK	DRAWING NUMBER: C12912-DWG01		
PRODUCT APPROVALS:	REP: Ward & Burton	RE: A	POE: 14-032		
HADCO	JLN	BY:	DATE:		

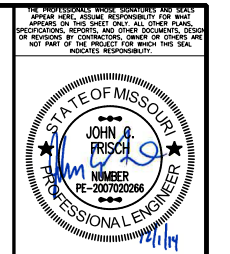
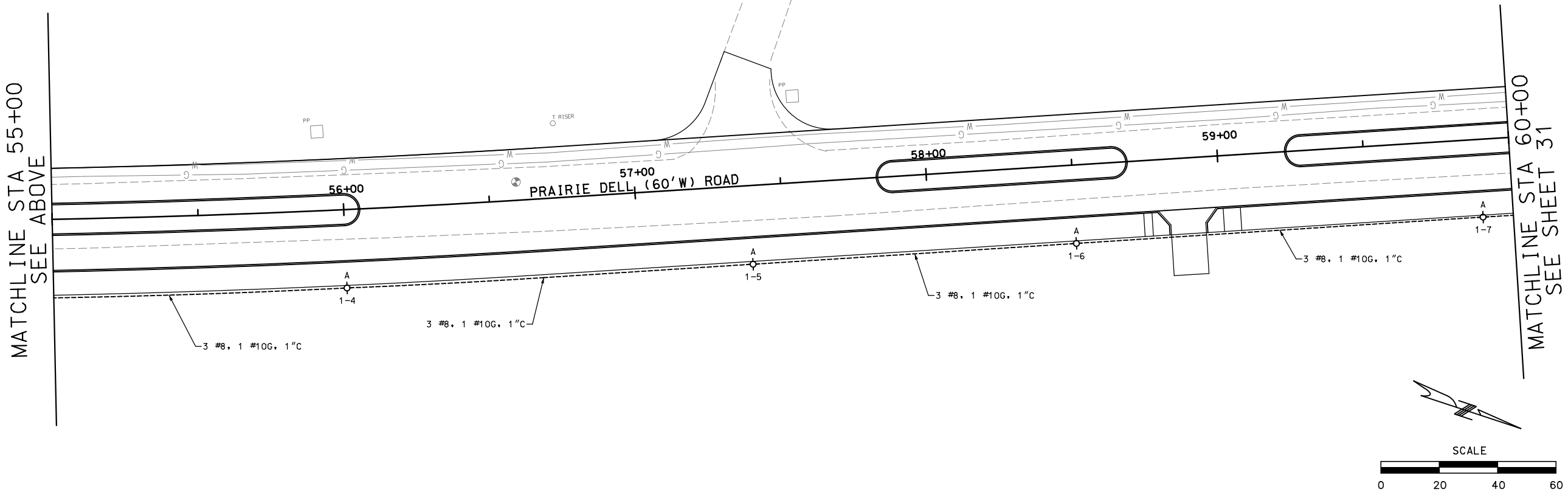


CM T		CMT 41 Wood Street Essex, SC 29918 800-416-4276 www.cmpoles.com		PRAIRIE DELL RD.	
QUANTITY: 18	JOB NUMBER:	CAT. NO.: TB18-X-50-3-HS-T300	SPECS:	WIND VEL.: 100@1.30	
QUOTE#:	REF#:	TOT. LENGTH: 18'-0"	EMBED. DEPTH: 4'-0"	LUM. WEIGHT: 50 lbs.	
REV. DATE	BY	TIP DIA: 2.80"	WEIGHT: 42 lb	LUM. EPA: 3.5 sq.ft.	
		REMARKS:	DRAWN BY: PLF	STATIC DEFL.: TOTAL DEFL.:	
			DATE: 07/07/2014		

NOTE 1: AMEREN TO PROVIDE POLE-MOUNTED TRANSFORMER FOR NEW METERED PEDESTAL FOR LIGHTS. CONTRACTOR SHALL RUN NEW CABLE AND CONDUIT.
 NOTE 2: PROVIDE METERED LIGHTING PEDESTAL WITH INTEGRAL PHOTOCELL. MILLBANK CP3B51113A22SL1. PROVIDE MOUNTING BASE AND ANCHOR BOLTS ON CONCRETE PAD PER MANUFACTURERS' REQUIREMENTS. COORDINATE EXACT MATERIAL REQUIREMENTS WITH AMEREN.
 NOTE 3: 2" CONDUIT TO MAINTAIN 6" CLEARANCE FROM EX. 6" GAS MAIN. CONTRACTOR TO DETERMINE DEPTH ON SITE.



LIGHTING SUBSTATION IDENTIFIERS ARE AS FOLLOWS: 1-1, CIRCUIT #1, POLE #1.



Name: John C. Frisch
 Discipline: Professional Engineer
 License No.: 200702266
 Expiration Date: 12-31-2015

DATE PREPARED
 12/1/2014

JOB NO.
 1224500

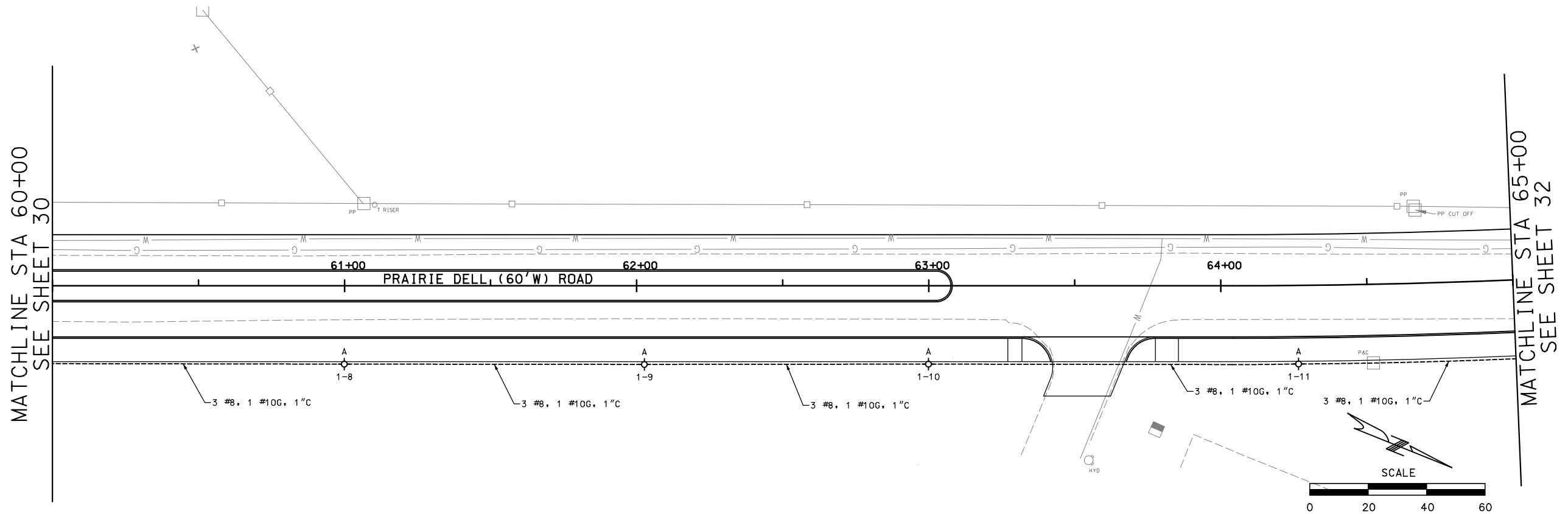
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SHEET OF
 30 56

DATE	DESCRIPTION
12/1/14	ADDENDUM 1

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PRAIRIE DELL ROAD
 PHASE 1
 LIGHTING DETAILS
 SHEET 2 OF 4



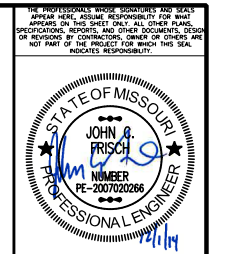
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LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	CATALOG	#	LAMPS TYPE	VOLTAGE	INPUT WATTS	FINISH	MOUNTING	REMARKS
A	HADCO	R52-F-D-H-C-2-A-D-N-G-150S-G		150W HPS	240V	186	Black	Pole	CMT COMPOSITE, 14' POLE, TB18-X-50-3-HS-T300

BRANCH PANEL NAME	VOLTAGE	PHASE	WIRE	BUS SIZE	MAIN OCP	AIC RATING					
PANEL A	12240	1	3	100A	100	10,000					
100% NEUTRAL	CODE: L=LIGHTING, R=RECEPTACLE, M=MOTOR, E=EQUIPMENT					FLUSH MOUNTING TRIM					
NEMA 3R	COPPER GROUND BAR					FEED THRU LUGS					
LOAD	CODE	POLE	BKR	CKT #	A	B	CT #	BKR	POLE	CODE	LOAD
LIGHT POLE CKT1	L	2	30	1	1,700		2	30	2	L	FUTURE PHASE 2
LIGHT POLE CKT1	L			3		1,700	4				FUTURE PHASE 2
	M	1	20	5			6	20	1	M	
	M	2	20	7			8	20	1	M	
	M	2	20	9			10	20	1	M	
	M	2	30	11			12	20	1	M	
1,700	PHASE A	RECEPT-W @	per NEC	-	TCL VA	3,400					
1,700	PHASE B	LIGHTS-W @	100%	-	DEMAND VA	0					
		MOTOR-W @	95%	-	HI-PH CONN. A	14					
3,400	TCL	EQUIP-VA @	100%	-	DEMAND A	0					

ITEM DESCRIPTION	UNIT	QUANTITY
CONDUIT, 1 IN. RIGID, IN TRENCH	LF	1800
CONDUIT, 2 IN. RIGID, IN TRENCH	LF	175
CABLE, 2 AWG 1 CONDUCTOR	LF	525
NOT USED	0	0
CABLE, 8 AWG 1 CONDUCTOR	LF	5400
CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET	LF	1800
POWER SUPPLY ASSEMBLY, TYPE 1, 240/120 VOLT SERVICE, LIGHTING ONLY	EACH	1
#2 AWG BARE COPPER GROUNDING CONDUCTOR	LF	90
150W HPS LIGHT FIXTURE WITH 14' DECORATIVE POLE	EACH	17
10' X3/4" COPPER CLAD GROUND ROD	EACH	18
BASE, CONCRETE	CY	0.03



Name: John C. Frisch
 Discipline: Professional Engineer
 License No.: 200702266
 Expiration Date: 12-31-2015

DATE PREPARED
 12/1/2014

JOB NO.
 1224500

FEDERAL PROJECT NO.
 STP-6200(607)

SHEET OF
 31 56

DATE	DESCRIPTION
12/1/14	ADDENDUM 1

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 Certificate of Authority: 0200159
 Expiration Date: December 31, 2014

PRAIRIE DELL ROAD
 PHASE 1
 LIGHTING DETAILS
 SHEET 3 OF 4