Post Number	Pull Box Number	Location: Approach △1	Location: Station	Location: Offset	Base A: 9	A: 9.5	A: 10	A: 10.5	A: 11	A: 12	Base F: 9	F: 9.5	F: 10	F: 10.5	F: 11	F: 12	Base C	Concrete** (CU. YDS.)	Pull Box Preformed: Class 1	Class 2	Class 3	Class 5	Concrete: Standard	Double, Type A	Double, Type B	Drain Type*: I	II: A	II: B	II: C
			CONTROLLER	(AS REQ'D)																									
2		20TH STREET	240+14.3	32.6' LT													1	0.44											
3		20TH STREET	240+23.2	35.0' LT													1	0.44											
6		20TH STREET	EXISTING	EXISTING																									
	2	20TH STREET	240+86.4	42.7' LT																1						1			
	3	20TH STREET	240+49.8	53.0' RT																1						1			
				SUBTOTAL														0.88		2									

Post Number	Top Mount Post: 8 FT.	15 FT.	Type C & CL Arm Length: A	A	A	A	Signal Spacing: B	C	D	D'	D"	Sign Spacing: B	C	D	D'	D"	Type B & BL Arm Length: E	K	E	K	Left Arm E Signal Spacing: F	G	H	H'	Left Arm E Sign Spacing: F	G	H	H'	Right Arm K Signal Spacing: L	M	N	N'	Right Arm K Sign Spacing: L	M	N	N'	Included Angle	Luminaire Bracket Arm*: 4 FT.	6 FT.	8 FT.	10 FT.	12 FT.	15 FT.	Misc. Items: Video Camera	Optical Detector
2	1																																												
3																																													
6												3.0																																	
SUBTOTAL	1																																												#	

\# PAID FOR AS ONE VIDEO DETECTION SYSTEM

SIGNAL HEADS

Span Number	Post Number	Face Number	Luminaire 150W Sodium	Indications* 12" Lens Conventional (1): R	Y	G	S	L	R↑	RL	YL	YR↑	RR↑	Ped (1)	12" Lens Optical Limiting: R	Y	YL	YR↑	YL	YR↑	G	S	L	R↑	Visors*: 12" Lens	Ped.	Louvers*: A	B	C	D	E	F	Backplate* Lenses: 1	2	3	4	5	Bracket* Type: I	II	III	One-Face Section 1-: T	S	C	B	3-: T	S	C	B	4-: T	S	C	B	5-: T	S	C	B	Two-Face Sections 11-: T	S	B	33-: T	S	C	B	34-: S	B	35-: S	B	44-: S	B	45-: S	B
SUBTOTAL				SUBTOTAL CONVENTIONAL																																																																							

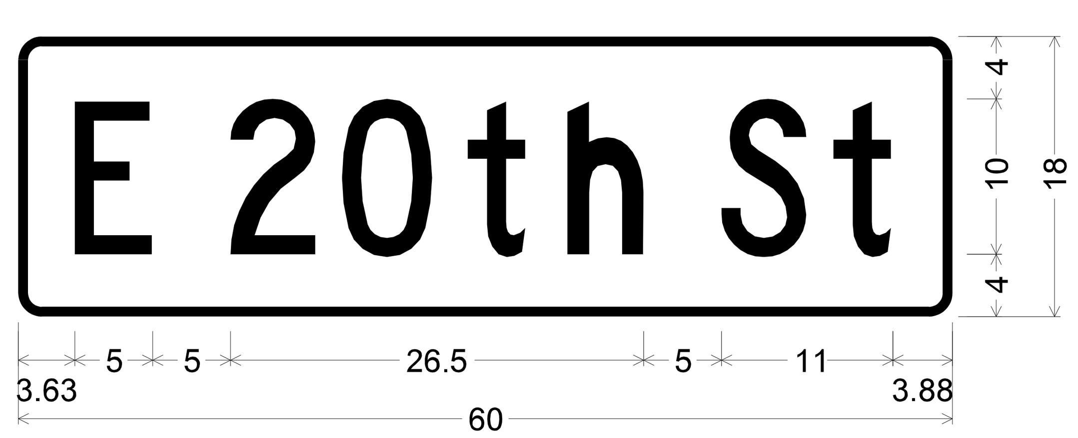
SIGNS

Quantity	MUTCD Sign Number	Size (Inches)	Area (Sq. Ft.)	Total Area Each Sign (Sq. Ft.)
	R10-10L	24 X 30	5.0	
	R10-10R	24 X 30	5.0	
	R3-5L	30 X 36	7.5	
	R3-5R	30 X 36	7.5	
	R3-5S	30 X 36	7.5	
	R3-6L	30 X 36	7.5	
	R3-6R	30 X 36	7.5	
	R3-2	24 X 24	4.0	
	R3-1	24 X 24	4.0	
	R3-3	24 X 24	4.0	
	R10-5	30 X 36	7.5	
	R10-12	24 X 30	5.0	
1	D3-1	60 X 18	7.5	7.5
	D3-S2	114 X 18	14.25	
	D3-S3	72 X 18	9.0	
	D3-S4	48 X 18	6.0	
	D3-S5	48 X 18	6.0	
8	R10-3E	9 X 15	0.9375	7.5
	R10-11A	24 X 30	5.0	
	R10-SPECIAL	30 X 36	7.5	
	R5-2 SPECIAL	24 X 36	6.0	
SUBTOTAL AREA ITEM NO. 903-50.68				15.0

△1

△1

D3-1



1.50" Radius, 0.63" Border, White on Green;
[E] C; [20th] C; [St] C;
Table of letter and object lefts.

E	2	0	t	h	S	t
3.63	13.63	20.75	28.88	35.25	45.13	52.38

△1 8/23/13
SIGNAL SHEET REVISED

REMARKS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

(1) ALL VEHICLE SIGNAL INDICATIONS SHALL HAVE LED LENSES. PEDESTRIAN INDICATIONS SHALL BE SINGLE HEAD (18" WIDE x 16" TALL) LED COUNTDOWN PEDESTRIAN SIGNALS.

SIGNAL STRUCTURES WHICH WILL EXCEED THE DIMENSION LIMITS SHOWN ON STANDARD PLAN SHEETS IN SECTION 902 AND ANY OTHER INSTALLATION WHERE THE DETAILS OF CONSTRUCTION ARE NOT FURNISHED IN THE CONTRACT PLANS, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, AND LATEST INTERIMS. THE STRUCTURE SHALL BE DESIGNED AS IMPORTANCE CATEGORY I FOR FATIGUE WITH A 50-YEAR DESIGN LIFE. THE CONTRACTOR SHALL SUBMIT A SET OF SHOP DETAIL DRAWINGS INCLUDING WELD PROCEDURE SPECIFICATIONS AND DESIGN COMPUTATIONS FOR MODOT RECORDS AND REFERENCE. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED IN ACCORDANCE WITH THE LAWS RELATING TO ARCHITECTS AND PROFESSIONAL ENGINEERS (CHAPTER 327, RSMO.), AND SHALL INCLUDE A TITLE BLOCK OR SUMMARY SHEET WHICH LISTS AND CERTIFIES THAT THE PRODUCT MEETS ALL OF THE SPECIFIED DESIGN CRITERIA.

LEGEND

T - TOP MOUNT
S - SIDE MOUNT
C - SPANWIRE MOUNT
B - MAST ARM MOUNT

20TH STREET AT INDIANA AVENUE

INTERSECTION

D-37A

STATE OF MISSOURI — Kevin Michael Manning — NUMBER PE-2011000920 — PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/30/2013	
ROUTE: N/A	STATE: MO
DISTRICT: SW	SHEET NO.: 95
COUNTY: JASPER	
JOB NO.: TDG-3200(718)	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TRANSYSTEMS CORP.
2400 PERSHING ROAD
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MO STATE CERTIFICATE OF AUTHORITY # 273
ENGINEERING