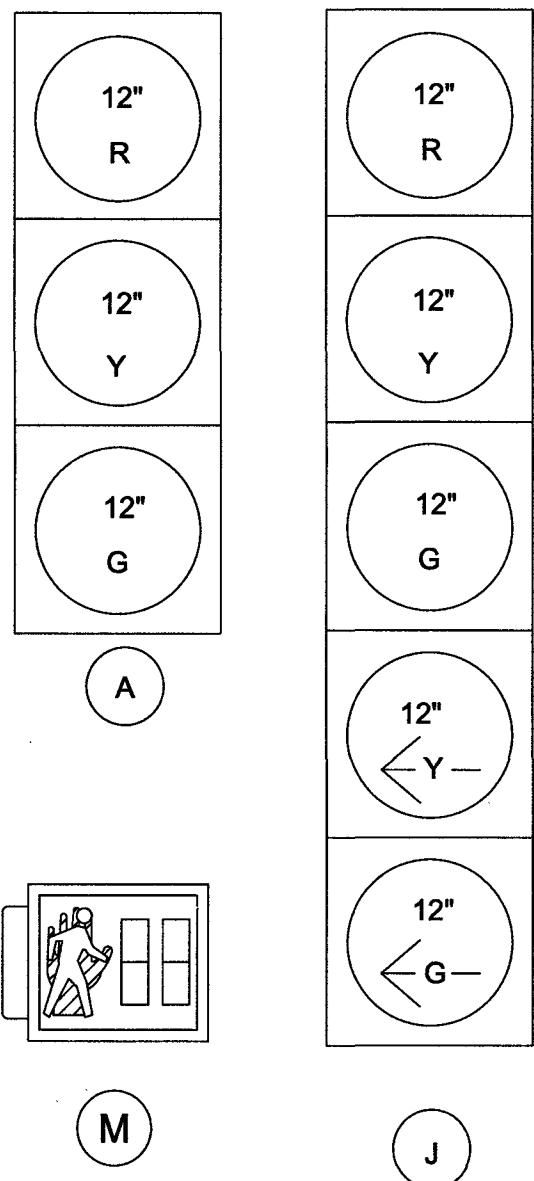
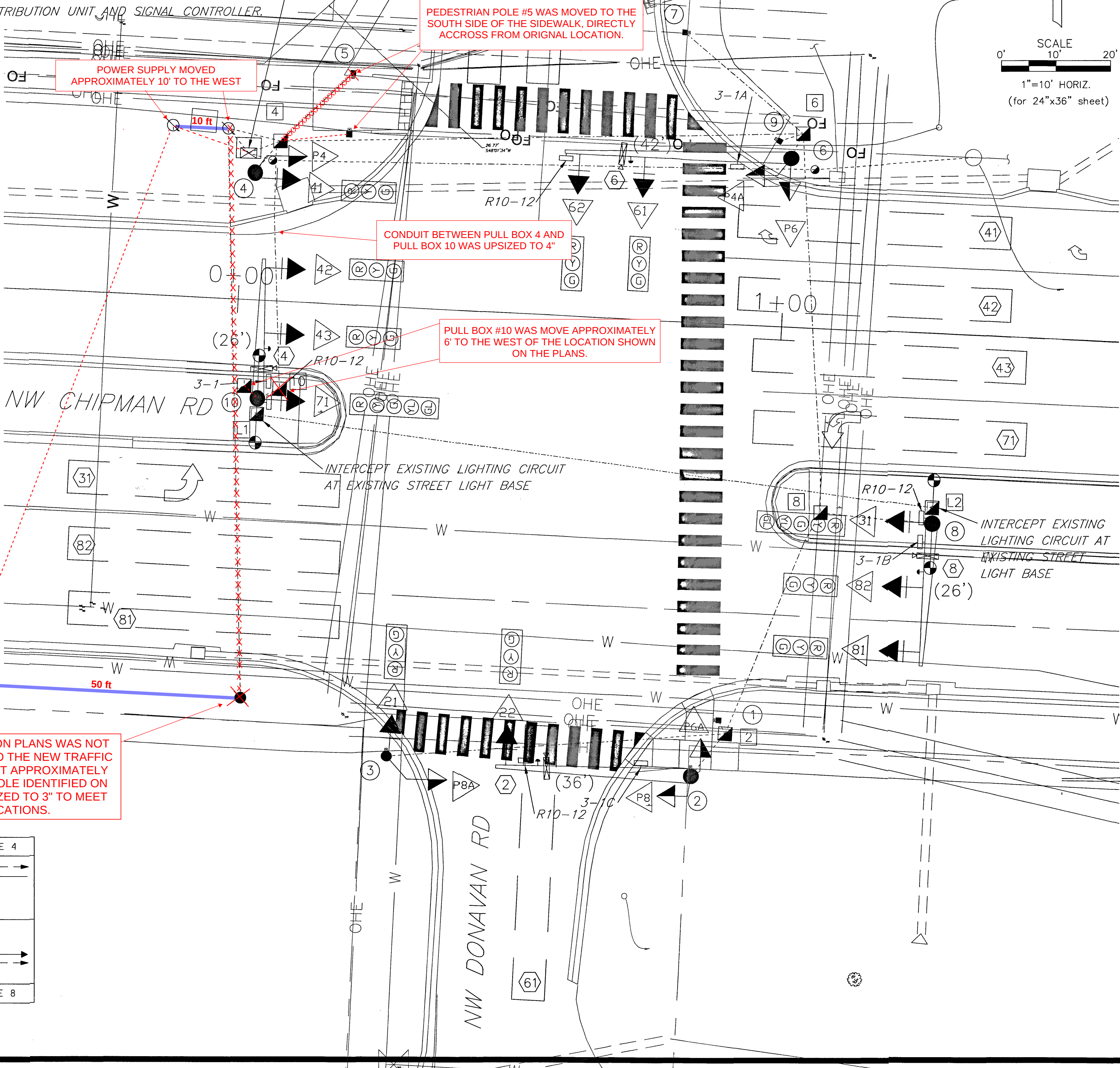


POLE AND PULL BOX LOCATIONS

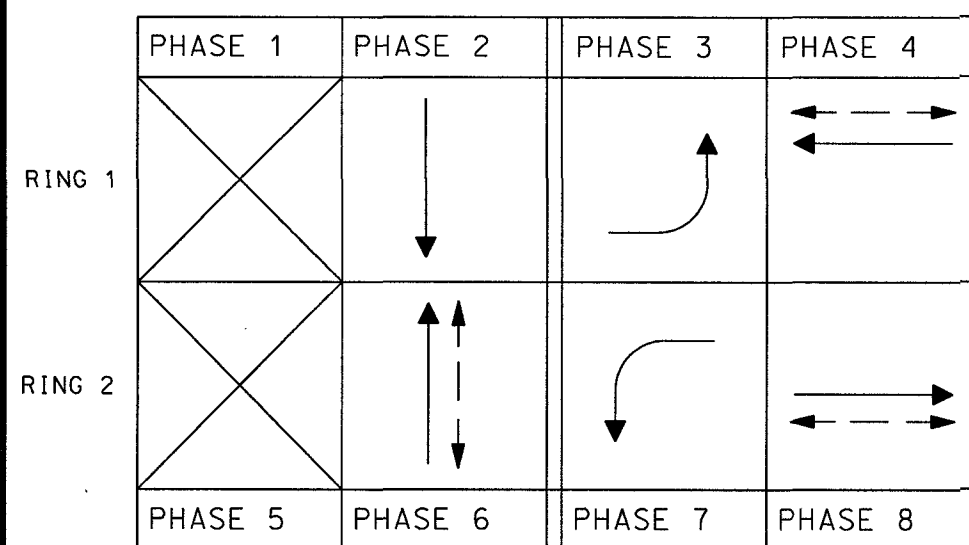
NO.	STATION	OFFSET
1	0+91.96	72.2' RT
2	0+87.29	82.7' RT
3	0+31.28	82.1' RT
4	0+01.95	23.5' LT
5	0+19.01	42.4' LT
6	1+00.24	30.8' LT
7	0+79.62	52.9' LT
8	1+29.18	34.5' RT
9	0+97.92	33.9' LT
10	0+04.38	18.0' RT
2	0+93.25	74.6' RT
4	0+06.30	29.3' LT
6	1+02.23	35.4' LT
8	1+08.67	33.5' RT
10	0+08.36	16.0' RT
F1	0+05.70	25.7' LT
F2	1+04.71	29.0' LT
L1	0+04.39	20.8' RT
L2	1+29.03	31.7' RT
CONTROLLER	0+00.56	26.8' LT



TERMINATE THE FIBER OPTIC CABLE IN THE FIBER DISTRIBUTION UNIT/FIBER TERMINATION PANEL. INSTALL FIBER OPTIC DATA LINK SWITCH AND MULTI-MODE SFP TRANSCEIVER IN THE SIGNAL CABINET AND CONNECT IT TO THE FIBER DISTRIBUTION UNIT AND SIGNAL CONTROLLER.



EVERGY POLE IDENTIFIED ON PLANS WAS NOT USED TO SUPPLY POWER TO THE NEW TRAFFIC SIGNAL. NEW POLE WAS SET APPROXIMATELY 50' TO THE WEST OF THE POLE IDENTIFIED ON THE PLANS. CONDUIT UPSIZED TO 3" TO MEET EVERGY SPECIFICATIONS.



RING STRUCTURE

NOTES:

1. ALL MATERIALS AND CONSTRUCTION METHODS FOR THE TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO THE CURRENT CITY OF LEE'S SUMMIT TRAFFIC SIGNAL SPECIFICATION: SECTION 2900 (AVAILABLE ON-LINE) AND TO THE TRAFFIC SIGNAL STANDARD DRAWINGS TS-1 THROUGH TS-9 AS CONTAINED IN THESE CONSTRUCTION DOCUMENTS. THE MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE CITY OF LEE'S SUMMIT PUBLIC WORKS DEPARTMENT.

2. THE CONTRACTOR SHALL STAKE THE LOCATION OF ALL POLE BASES, PULL BOXES, AND THE CONTROLLER CABINET FOR REVIEW AND APPROVAL BY THE CITY OF LEE'S SUMMIT PUBLIC WORKS DEPARTMENT PRIOR TO PROCEEDING WITH CONSTRUCTION.

3. EXISTENCE AND LOCATIONS OF ALL UTILITIES ARE TAKEN FROM AVAILABLE SOURCES, BUT SHOULD BE CONSIDERED APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL SITE CONDITIONS, INCLUDING LOCATIONS AND DEPTHS OF UTILITIES, AND TAKE CAUTION SO AS TO NOT DAMAGE UTILITIES AND TO MAINTAIN REQUIRED CLEARANCES (OVERHEAD AND UNDERGROUND) THROUGHOUT CONSTRUCTION.

4. THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL POWER AND CONNECTION REQUIREMENTS DIRECTLY WITH THE UTILITY COMPANY.

5. CONTRACTOR SHALL COORDINATE AND SCHEDULE TURN-ON WITH THE CITY OF LEE'S SUMMIT.

6. ALL DISTURBED AREAS SHALL BE RESTORED, AT THE CONTRACTOR'S EXPENSE, TO MATCH ADJACENT UNDISTURBED AREAS.

LEGEND

- PULL BOX
- FIBER PULL BOX
- PULL BOX LABEL
- POST LABEL
- POST WITH MAST ARM AND LUMINAIRE
- 15' PEDISTAL POLE
- 4' POLE WITH PUSH BUTTON
- PUSHBUTTON DETECTION
- DETECTION LABEL
- SIGNAL HEAD WITH LABEL
- PEDESTRIAN SIGNAL HEAD WITH LABEL
- SIGNAL CONTROLLER
- POWER SUPPLY
- POWER SOURCE
- SIGNAL HEAD INDICATION
- TRENCHED CONDUIT
- PUSHED CONDUIT
- EXISTING LIGHTING CONDUIT

Sheet
6 of 11

Traffic Signal Plans

Chipman Road & Donovan Road
Lee's Summit, Missouri

TC101
Signal Plan

REVISION
NO. BY CD. DATE

Priority
ENGINEERS
PO Box 563
Garden City, MO 64747
816.738.4400

KRISTIN L. SKINNER
PROFESSIONAL ENGINEER
NUMBER 000002856
9-4-19

POLES														
Pole No.	PEDESTAL POLE HEIGHT (Feet)			MAST ARM LENGTH (Feet)			SIGNAL HEAD SPACING*				LIGHTING			REMARKS
							A	B	C	D	Mounting Height	400W Equivalent LED Luminaires	Bracket Arm Length	
	E	F	G	H										
	4	8	15	26	36	42								
1	1													
2				1			34							
3			1											
4			1											
5	1													
6				1			27	39						
7	1									40	2	10		
8	1			1			12	24						
9														
10				1			13	25		40	2	10		

*NOTE: Signal head spacing (feet) may be adjusted to site conditions as approved by the project inspector.

[illegible]

CONTROLLER AND EQUIPMENT	TOTALS
CABINET AND ACCESSORIES: NEMA Type P TS1 Cabinet	1
CONTROLLER: Type 3608 M 52 EAGLE EPAC NTCP Firmware 4.57 complete per plans, including software	1
EMERGENCY VEHICLE DETECTION SYSTEM (COMPLETE): GTT	1
VIDEO DETECTION SYSTEM (COMPLETE): Insync Adaptive Traffic Control System ITERIS ADVANTAGE NEXT VIDEO DETECTION	1
FIBER DISTRIBUTION UNIT:	1
FIBER OPTIC DATA LINK SWITCH: Kyland S100M 3170 or Equal TRANSITION NETWORKS - SISPM1040-384-LRT-C	1
2-Circuit Power Supply (Utility Enclosure Pedestal)	1
Ground Rods	11
Pushbutton Detectors	6

SIGNAL CONDUIT					
FROM	TO	3" PVC	2" HDPE	3" HDPE	4" HDPE
4	1				14
4	4			8	
4	5		19		
4	6				97
4	10			46 5	46
10	10			5	
6	6			5	
6	7		29		
6	8				68
6	9		5		
6	9			21	
8	2				47
2	1		3		
2	2			10	
2	3			64	
●	3				
Ø	3				
Ø	4				
Subtotal (feet)			56	159	226
BID TOTAL (feet)			60	160	230

[illegible]

** Cable included in lump sum price for the system.

[illegible]

* Tracer wire shall be subsidiary to fiber cable line item.

SIGNAL HEADS																														
NO.		INDICATIONS													VISORS		SECTIONS													
Pole	Face	Head Type	Opt. limited	Louvers	Backplate	12" LED'S										Walk Flash Don't Walk	W/DW	Countdown Indications	on	Type	Mounting									
						R	Y	G	R←	Y←	G←	G↑	Y→	G→	1						2	3	4	5						
																									P	S	P	S	P	S
2	22	A			1	1	1	1									3													
2	P6A	M														1			1											
2	P8	M														1			1											
3	21	A			1	1	1	1									3				1									
3	P8A	M														1														
4	41	A			1	1	1	1									3					1								
4	P4	M														1			1											
6	61	A			1	1	1	1									3						1							
6	62	A			1	1	1	1									3					1								
6	P4A	M														1			1											
6	P6	M														1			1											
8	31	J			1	1	1	1		1	1						5										1			
8	81	A			1	1	1	1									3													
8	82	A			1	1	1	1									3					1								
10	42	A			1	1	1	1									3					1								
10	43	A			1	1	1	1									3					1								
10	71	J			1	1	1	1		1	1						5										1			
TOTALS					11	11	11	11		2	2						6	37		6		2	7				2			

P – Pole Mounted Signal Head
M – Mast Arm Mounted Signal Head
S – Span Wire Mounted Signal Head

SIGNS				
SIGN	LEGEND	NO.	S.F.	TOTAL S.F.
R10-12	LEFT TURN YIELD ON GREEN	4	5.0	20.0
R10-3E (LT)	PEDESTRIAN CROSSING SIGN	3	0.9	2.7
R10-3E (RT)	PEDESTRIAN CROSSING SIGN	3	0.9	2.7
D3-1	NW DONOVAN RD	1	15.0	15.0
D3-1A	NW CHIPMAN RD	1	15.0	15.0
D3-1B	NW DONOVAN RD	1	12.0	12.0
D3-1C	NW CHIPMAN RD	1	12.0	12.0
TOTAL				79.4

NOTE :

THE TRAFFIC SIGNAL SYSTEM SHALL BE COMPLETE AND THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT AND MATERIALS NECESSARY FOR THE SATISFACTORY OPERATION OF ELECTRICAL APPARATUS AND FOR COMPLETE OPERATION OF THE TRAFFIC SIGNAL SYSTEM WHETHER SPECIFICALLY MENTIONED OR NOT.