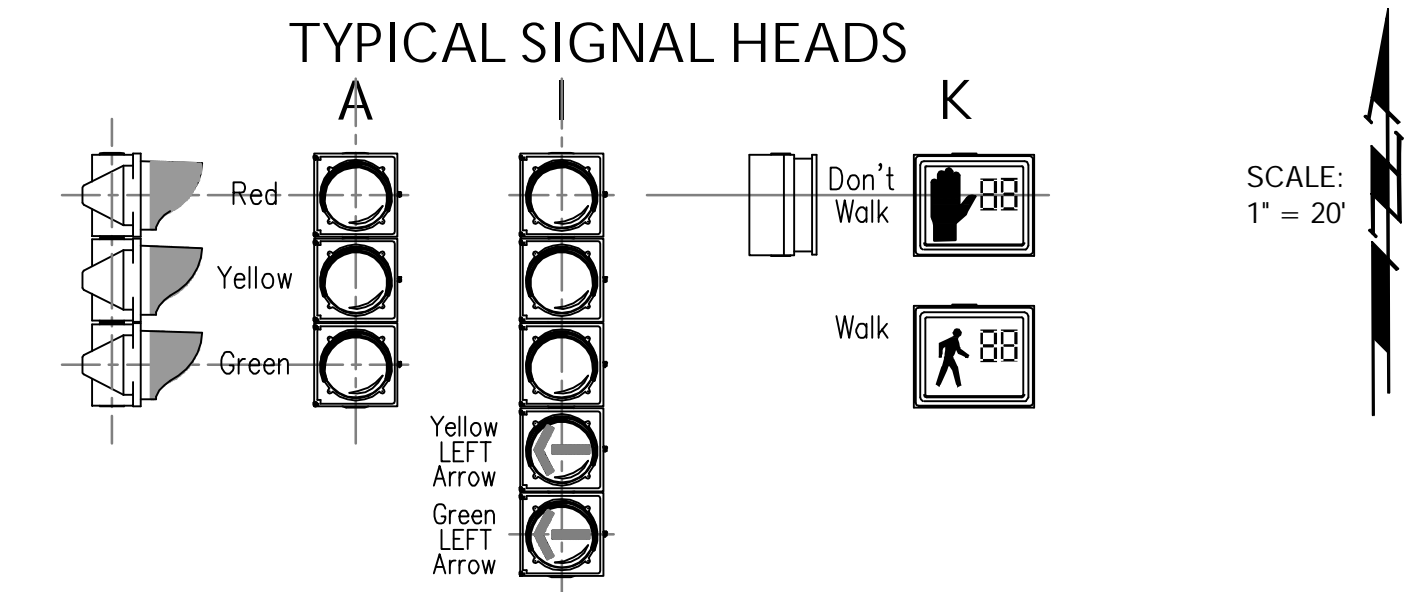


FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87N-0459-01	2008	21	32

Fed. Aid # HSIP-N045(901)

BILL OF MATERIALS		
ITEM	UNIT	QTY
PAD MOUNTED CONTROLLER & CABINET	EACH	1
TRAFFIC SIGNAL HEAD (SEE CHART 'A') W/ MOUNTING HARDWARE	EACH	14
PEDESTRIAN INDICATION (18"X18") W/ COUNTDOWN	EACH	8
TRAFFIC SIGNAL POLE (SEE CHART 'B') STEEL	EACH	4
CONCRETE CONTROLLER PAD	EACH	1
CONCRETE FOOTING - POLE	EACH	4
CONDUIT ELBOW 90°	EACH	As Req'd
CONDUIT ELBOW 90° 3"	EACH	As Req'd
BACK PLATE 5" - 3 SECTION	EACH	10
BACK PLATE 5" - 5 SECTION	EACH	4
TRAFFIC MANHOLE	EACH	4
GROUND ROD & CLAMP	EACH	5
CONDUIT CLAMP	EACH	As Req'd
TRAFFIC SIGNAL LAMP RED LED KIT	EACH	14
TRAFFIC SIGNAL LAMP YELLOW LED KIT	EACH	14
TRAFFIC SIGNAL LAMP GREEN LED KIT	EACH	14
TRAFFIC SIGNAL LAMP GREEN ARROW LED KIT	EACH	4
TRAFFIC SIGNAL LAMP YELLOW ARROW LED KIT	EACH	4
CLASS 4 - WOOD POLE	EACH	0
ENTRANCE HEAD	EACH	1
CIRCUIT BREAKER & BOX	EACH	1
GUY WIRE GUARD	EACH	As Req'd
GUY WIRE CLAMP	EACH	As Req'd
THIMBLE EYE ANCHOR ROD	EACH	As Req'd
PEDESTRIAN PUSHBUTTON W/SIGN	EACH	8
LEAD-IN WIRE No. 4 A.W.G. 1/C (TYPE THNN)	LIN. FT.	--
STANDARD 1/C #8 (GROUND)	LIN. FT.	336
MULTI-CONDUCTOR CABLE No. 16 A.W.G. 3/C (V3)	LIN. FT.	496
MULTI-CONDUCTOR CABLE No. 14 A.W.G. 7/C	LIN. FT.	1033
VIDEO CABLE 75 OHM COAXIAL (BELDON 8281) (CX)	LIN. FT.	496
CONDUIT 2" RGC - WESTAR	LIN. FT.	--
CONDUIT 1.5" RGC	LIN. FT.	--
CONDUIT 2" RGC	LIN. FT.	--
CONDUIT 3" RGC	LIN. FT.	433
CAMERA HOUSING	EACH	4
VIDEO DETECTION CAMERA & MOUNTING HARDWARE (RISER BRACKET)	EACH	4
VIDEO DETECTION PROCESSOR UNIT	EACH	1
VIDEO MONITOR	EACH	1
TETHER WIRE 1/4" ASTM A475 SIEMENS-MARTIN GRADE MIN.	LIN. FT.	As Req'd
STREET NAME SIGNS W/MOUNTING HARDWARE (D-3)	EACH	4
LEFT TURN YIELD ON GREEN W/MOUNTING HARDWARE (R10-12)	EACH	4
PC906 YAGI ANTENNA	EACH	1
SB863 OMNI ANTENNA	EACH	0
MODEL 5100 RACK MOUNT	EACH	1
LIGHTNING ARRESTER	EACH	1
LMR 400 ANTENNA CABLE	EACH	70'



TYPE 2070L CONTROLLER SETTINGS																	
Interval	WAPITI PROGRAM								Nominal Display								
	1	2	3	4	5	6	7	8	Time Clock	Features							
	WBLT	EB	SBLT	NB	EBLT	WB	NBLT	SB		1	2	3	4	5	6	7	8
Max.	0								0	Year	Veh Recall						
Max. 2	1								1	Month	Ped Recall						
Walk	2								2	Day/Month	Red Lock						
Fl. Dw.	3								3	Day/Week	Yel Lock						
Max. Init.	4								4	Hour	0 Permit	X	X	X	X	X	X
Min. Green	5								5	Minute	Ped Phases						
TBR	6								6	Second	Lead Phases	X	X	X	X	X	X
TTR	7								7		Dbl Entry						
	8								8		Sequential						
Passage	9								9		Start Up Yel	X				X	
Min. Gap	a								a		Overlap A						
Add Act	b								b		Overlap B						
Yellow	c								c		Overlap C						
Red Cir	d								d		Overlap D						
Red Rev	e								e		Exclusive						
Walk II	f								f		Sim Gap						

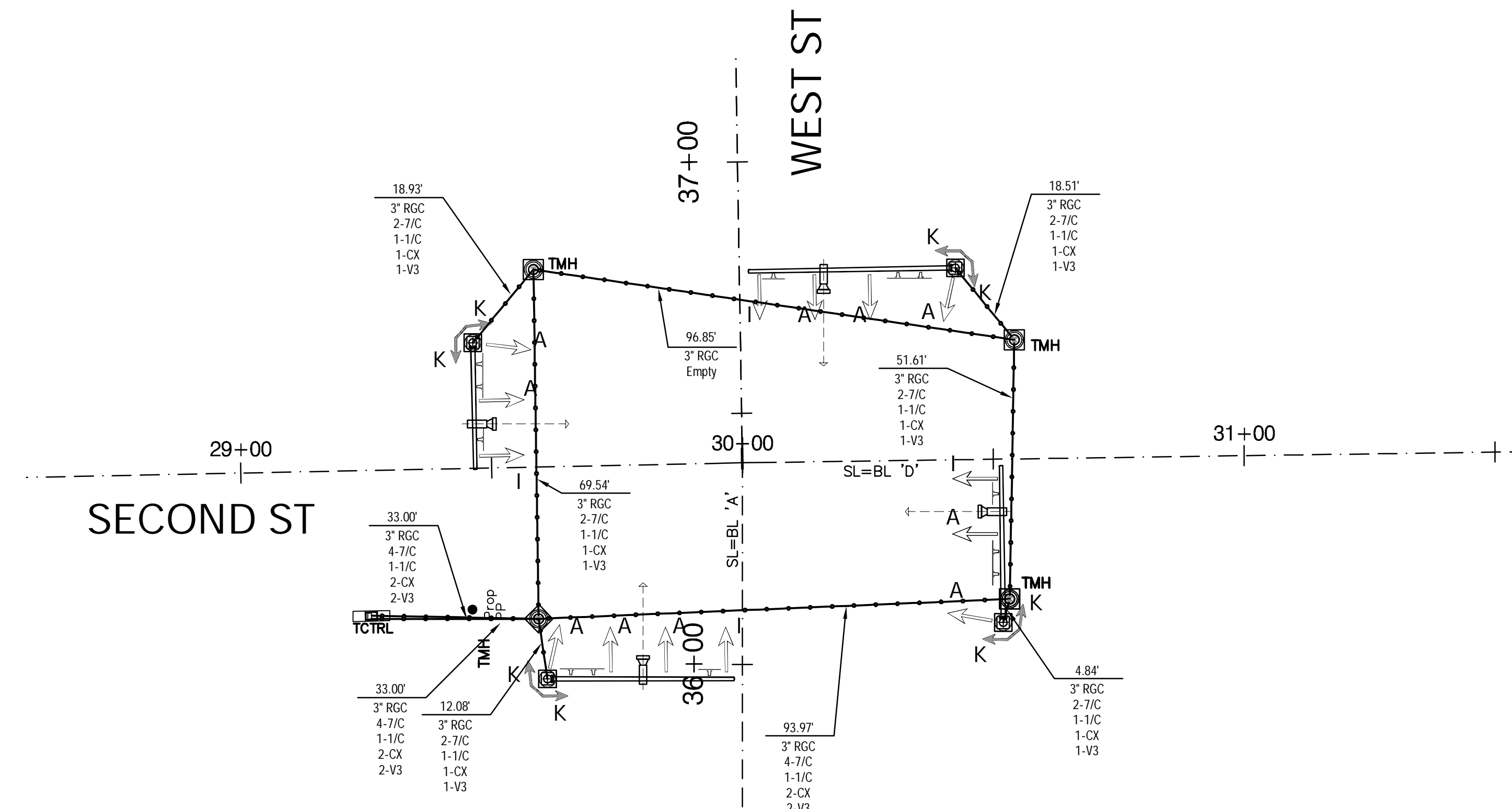
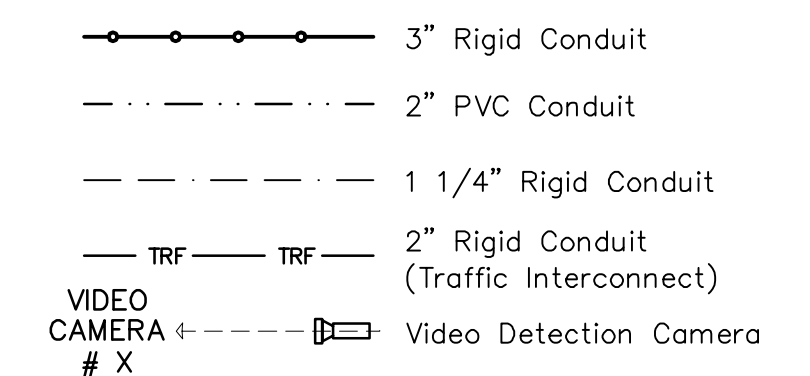
CHART 'A' - SIGNAL INVENTORY				
NO. WAYS	NO. SECTIONS (Per Face)	SIGNAL FACE ARRANGEMENT	MOUNTING TYPE	QTY
1	3	A	TYPE I	6
1	5	I	TYPE I	4
1	3	A	TYPE III	4
1	1	K (SYM)	TYPE II	8

CHART 'B' - TRAFFIC SIGNAL POLES						
STATION	DIST.	SIDE	ARM LENGTH	NO. OF SIGNALS ON ARM	SIGNAL SPACING	TYPE
Sta. 35+97.10	38.80'	Lt.	36.0'	3	12.69'-11.00'-12.00'	STD
Sta. 36+08.40	52.00'	Rt.	30.0'	2	17.61'-11.00'	STD
Sta. 36+64.90	53.30'	Lt.	24.0'	2	11.54'-11.00'	STD
Sta. 36+78.20	43.10'	Rt.	40.0'	3	17.00'-11.00'-11.00'	STD

CHART 'D' - STREET NAME SIGN SUMMARY				
LEGEND	TYPE	QTY	UNITS	SIZE
West	D-3	2	EA	2.5' X 5.0'
Second	D-3	2	EA	2.5' X 5.0'

CHART 'C' - CONDUIT		
CONDUIT SIZE	TRENCHED	PUSHED
2" PVC - Westar	-	-
1.5" RGC	-	-
2" RGC	-	-
3" RGC	433'	-

TRAFFIC MANHOLE SUMMARY	
STATION	DIST. - SIDE
Sta. 36+09.00	40.60' Lt.
Sta. 36+13.00	53.30' Rt.
Sta. 36+63.70	54.60' Rt.
Sta. 36+79.30	41.00' Lt.



**GENERAL NOTES**

- Signal Timing by the City of Wichita. The Contractor shall be responsible for furnishing and installing the controller, cabinet, concrete base, and for all equipment necessary for the complete and satisfactory operation of the traffic signal, whether said equipment is specifically mentioned or not.
- Lengths given are to the centerline of pole/box and do not include lengths for elbows and risers.
- Signal heads, pedestrian signals, traffic signs, etc. shall include all brackets, hardware, & other incidentals necessary for installation.
- See City of Wichita Standard Specifications for additional wiring notes.
- Quantities are for Information Only.

**SPECIAL FINISH FOR TRAFFIC SIGNAL EQUIPMENT:**

The traffic signal controller cabinet, brackets, sign blank backs, signal backs and other exposed surfaces shall be shop painted with an aerosol lacquer cellulose ester to match the traffic signal pole color. The contractor shall submit two copies of the proposed coating system to the City for approval to application.

**TRAFFIC SIGNAL POLE & PEDESTAL EXTERIOR COATING:**

In addition to being galvanized, all exterior surfaces shall be coated with a zinc rich epoxy powder to a minimum dry film thickness of 2.0 mils. The coating shall be electrostatically applied and partially cured in a gas fired convection oven by heating the steel substrate to a minimum of 250 degrees Fahrenheit.

The powder primed surface shall be coated with an intermediate coat of polyester powder to a minimum dry film thickness of 2.0 mils. The coating shall be electrostatically applied and cured by heating the steel substrate in a convection oven to minimum of 350 degrees and a maximum of 400 degrees Fahrenheit.

The intermediate coat shall be top coated with one coat of high-build acrylic polyurethane enamel to a minimum dry film thickness of 2.0 mils. The coating shall be electrostatically applied and cured by heating the substrate in a convection oven to a minimum of 225 degrees Fahrenheit. The final top coating color shall be BLACK.

Drawing File: E:\West Street Paving New\Land\Dig\Traffic base. dwg

Design: T. Aziera  
 Drawn: Sonny  
 Approved: T. Aziera  
 Scale: 1:20

Project No. 04.04.EB59 CAPITAL IMPROVEMENT PROJECT  
**WEST STREET SIGNALIZATION**  
 Second @ West Intersection  
 PAVEMENT, STORM WATER SEWER, TRAFFIC CONTROL IMPROVEMENTS

**Baughman Company, P.A.**  
 315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149  
 ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE