FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87 N-0303-01	2003	86	143

BENCHMARKS:

BM #7 – City of Wichita bench Mark Disc on signal pole base 40.4' south and 57.5' East of centerlines of Hydraulic & 47th St. South. Sta. 115+07.4, 57.5' Rt. Elev. = 84.99 (City Datum)

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL EQUIPMENT NECESSARY FOR THE COMPLETE AND SATISFACTORY OPERATION OF THE TRAFFIC SIGNAL SYSTEM, WHETHER SAID EQUIPMENT IS SPECIFICALLY MENTIONED OR NOT.

2. LENGTHS GIVEN ARE TO THE CENTER OF THE POLE BASE AND DO NOT REFLECT ADDITIONAL LENGTHS DUE TO RISERS AND BENDS.

3. SIGNAL HEADS, PEDESTRIAN SIGNALS, AND TRAFFIC SIGNS SHALL INCLUDE ALL HARDWARE AND OTHER INCIDENTALS NECESSARY FOR PROPER INSTALLATION.

4. SEE THE CITY OF WICHITA STANDARD SPECIFICATIONS FOR ADDITIONAL WIRING NOTES.

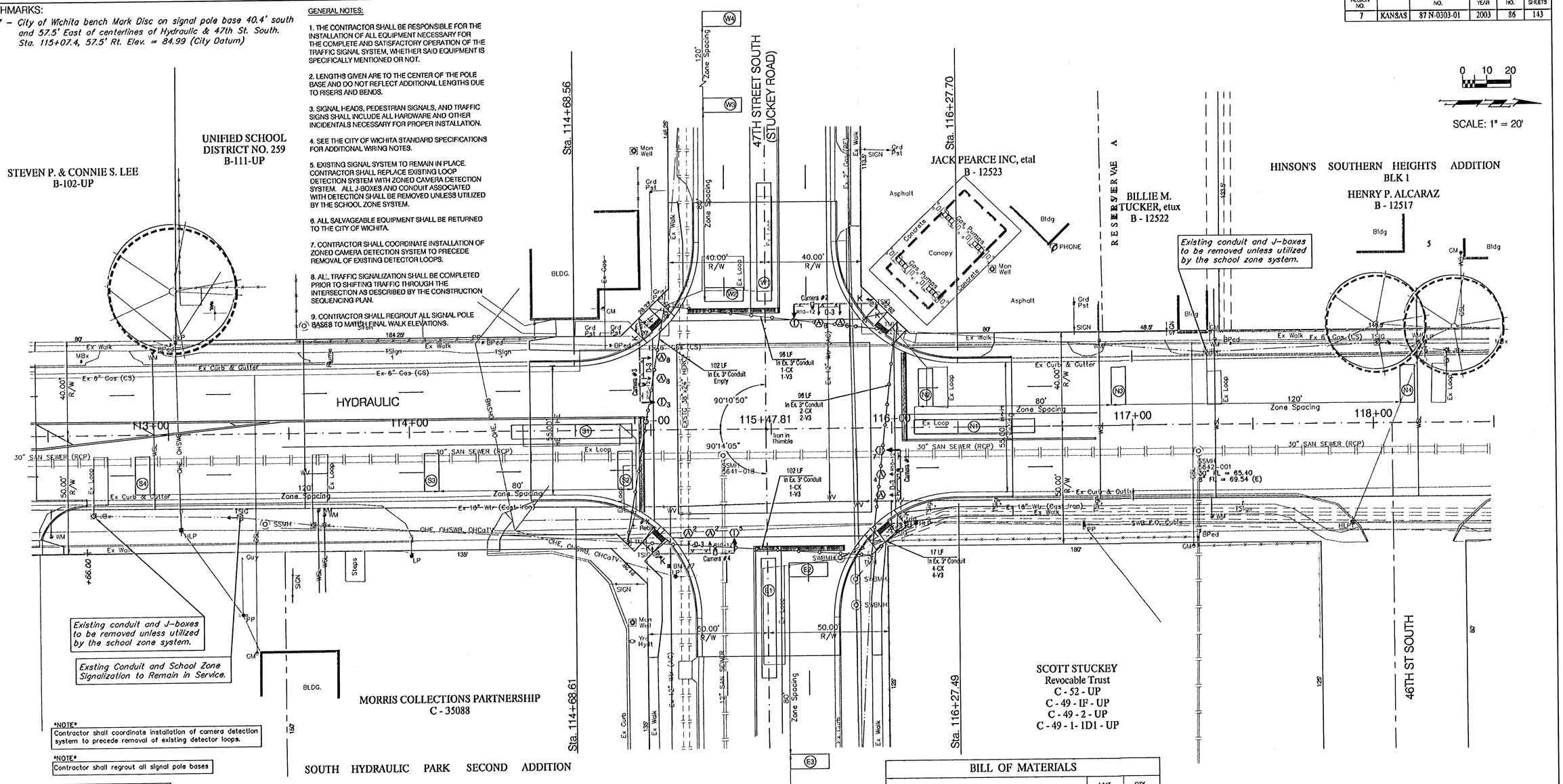
5. EXISTING SIGNAL SYSTEM TO REMAIN IN PLACE. CONTRACTOR SHALL REPLACE EXISTING LOOP DETECTION SYSTEM WITH ZONED CAMERA DETECTION SYSTEM. ALL J-BOXES AND CONDUIT ASSOCIATED WITH DETECTION SHALL BE REMOVED UNLESS UTILIZED BY THE SCHOOL ZONE SYSTEM.

6. ALL SALVAGEABLE EQUIPMENT SHALL BE RETURNED TO THE CITY OF WICHITA.

7. CONTRACTOR SHALL COORDINATE INSTALLATION OF ZONED CAMERA DETECTION SYSTEM TO PRECEDE REMOVAL OF EXISTING DETECTOR LOOPS.

8. ALL TRAFFIC SIGNALIZATION SHALL BE COMPLETED PRIOR TO SHIFTING TRAFFIC THROUGH THE INTERSECTION AS DESCRIBED BY THE CONSTRUCTION SEQUENCING PLAN.

9. CONTRACTOR SHALL REGROUT ALL SIGNAL POLE BASES TO MATCH FINAL WALK ELEVATIONS.



VEHICLE DETECTOR SUMMARY

LOOP NO.	LOOP SIZE W x L	DETECTOR SETTING	PHASE CALLED
E1	6.0' x 50.0'	PRESENCE	1
E2	16.0' x 6.0'	PRESENCE	8
E3	16.0' x 6.0'	PRESENCE	8
E4	16.0' x 6.0'	PULSE	8
S1	6.0' x 50.0'	PRESENCE	7
S2	16.0' x 6.0'	PULSE	4
S3	16.0' x 6.0'	PULSE	4
S4	16.0' x 6.0'	PULSE	4
W1	6.0' x 50.0'	PRESENCE	5
W2	16.0' x 6.0'	PULSE	2
W3	16.0' x 6.0'	PULSE	2
W4	16.0' x 6.0'	PULSE	2
N1	6.0' x 50.0'	PRESENCE	3
N2	16.0' x 6.0'	PULSE	8
N3	16.0' x 6.0'	PULSE	8
N4	16.0' x 6.0'	PULSE	8

TYPE 170 CONTROLLER SETTINGS

WAPTI PROGRAM

Interval		1 WBLT	2 EB	3 SBLT	4 NB	5 EBLT	6 WB	7 NBLT	8 SB
Max.	0	30	80	30	80	30	80	30	80
Max. 2	1	30	80	30	80	30	80	30	80
Walk	2	5	8	5	8	5	8	5	8
Fl. Dw.	3	5	25	5	25	5	25	5	25
Max. Init.	4	1	10	1	10	1	10	1	10
Min. Green	5	1	8	1	8	1	8	1	8
TBR	6		15		15		15		15
TTR	7		25		25		25		25
	8								
Passage	9	1.0	2.0	1.0	2.0	1.0	2.0	1.0	2.0
Min. Gap	o	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Add Act	b	1.0	1.3	1.0	1.3	1.0	1.3	1.0	1.3
Yellow	c	3.0	4.0	3.0	4.0	3.0	4.0	3.0	4.0
Red Clr	d	1.0	2.0	1.0	2.0	1.0	2.0	1.0	2.0
Red Rev	e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Walk II	f	0	0	0	0	0	0	0	0

Time Clock

0	Year	
1	Month	
2	Day/Month	
3	Day/Week	
4	Hour	
5	Minute	
6	Second	
7		
8		
9		
o		
b		
c		
d		
e		
f		

Nominal Display Features

	Phase 1	2	3	4	5	6	7	8
Veh Recall		X				X		
Ped Recall								
Red Lock								
Yel Lock	X		X		X		X	
0 Permit	X	X	X	X	X	X	X	X
Ped Phases		X		X		X		X
Lead Phases	X		X		X		X	
Dbl Entry								
Sequential								
Start Up Yel								
Overlap A								
Overlap B								
Overlap C								
Overlap D								
Exclusive								
Sim Gap	X		X		X		X	

CHART 'D' - STREET NAME SIGN SUMMARY

LEGEND	TYPE	QTY	UNITS	SIZE
Hydraulic	D-3	2	EA	30" X 60"
47th Street	D-3	2	EA	30" X 60"

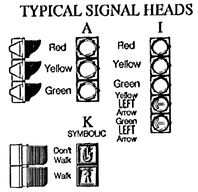
CHART 'A' - SIGNAL INVENTORY

NO. WAYS	NO. SECTIONS (Per Face)	SIGNAL FACE ARRANGEMENT	MOUNTING TYPE	QTY
1	5	I	TYPE I	4
1	3	A	TYPE I	0
2	2	K (SYMB)	TYPE II	4

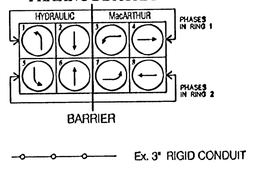
BILL OF MATERIALS

ITEM	UNIT	QTY
BACK PLATE 5" – 5 SECTION	EACH	4
TRAFFIC SIGNAL LAMP RED LED KIT	EACH	4
TRAFFIC SIGNAL LAMP YELLOW LED KIT	EACH	4
TRAFFIC SIGNAL LAMP GREEN LED KIT	EACH	4
TRAFFIC SIGNAL LAMP GREEN ARROW LED KIT	EACH	4
TRAFFIC SIGNAL LAMP YELLOW ARROW LED KIT	EACH	4
PEDESTRIAN SIGNAL HEAD WITH BRACKETS	EACH	8
12" COMBINATION	EACH	8
PEDESTRIAN PUSH BUTTON WITH SIGN (ONE PC)	EACH	8
MULTI-CONDUCTOR CABLE No. 16 A.W.G. 3/C (V3)	LIN. m	458 LF
VIDEO CABLE 75 OHM COAXIAL (BELDON 8281) (CX)	LIN. m	458 LF
CAMERA HOUSING	EACH	4
VIDEO DETECTION CAMERA & MOUNTING HARDWARE (RISER BRACKET)	EACH	4
VIDEO DETECTION PROCESSOR UNIT	EACH	4
VIDEO MONITER	EACH	1
CAMERA CHARGED COUPING DEVICE	EACH	4
REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT **	L.S.	–
STREET NAME SIGNS W/MOUNTING HARDWARE (D-3)	EACH	4

TYPICAL SIGNAL HEADS



PHASING DIAGRAM



PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472-83902	signal	F:\Eng\Hydraulic phx2\Traffic

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
AZIERE	STAFF	JFB	March 04	1"=20'	99-09-E451

CAPITAL IMPROVEMENT PROJECT

HYDRAULIC & 47 th STREET SIGNALIZATION IMPROVEMENTS

HYDRAULIC AVE PAVING - SOUTH OF 57th STREET SOUTH TO 47th STREET SOUTH

BAUGHMAN COMPANY, P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 * 315 ELLIS * WICHITA, KANSAS 67211

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