CAPACITY DESIGN STUDY

2 PHASE
60 SEC. CYCLE
SIGNAL TYPE ACTUATED

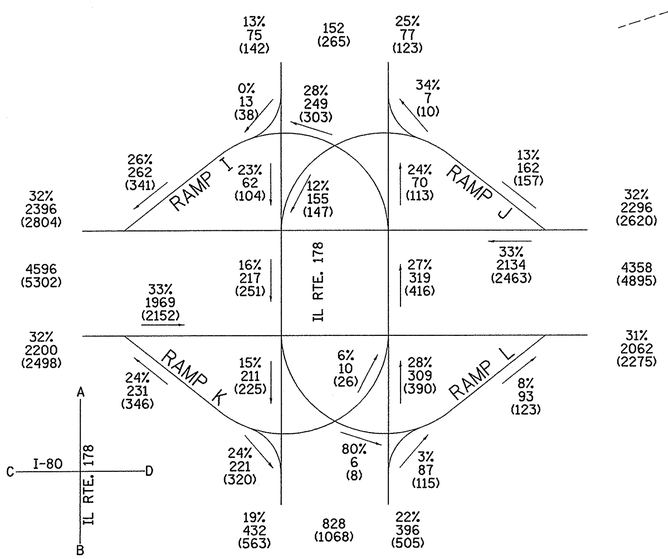
AREA OTHER
AVERAGE INTERSECTION DELAY
PROGRAM USED HCS-VERSION 4.1D

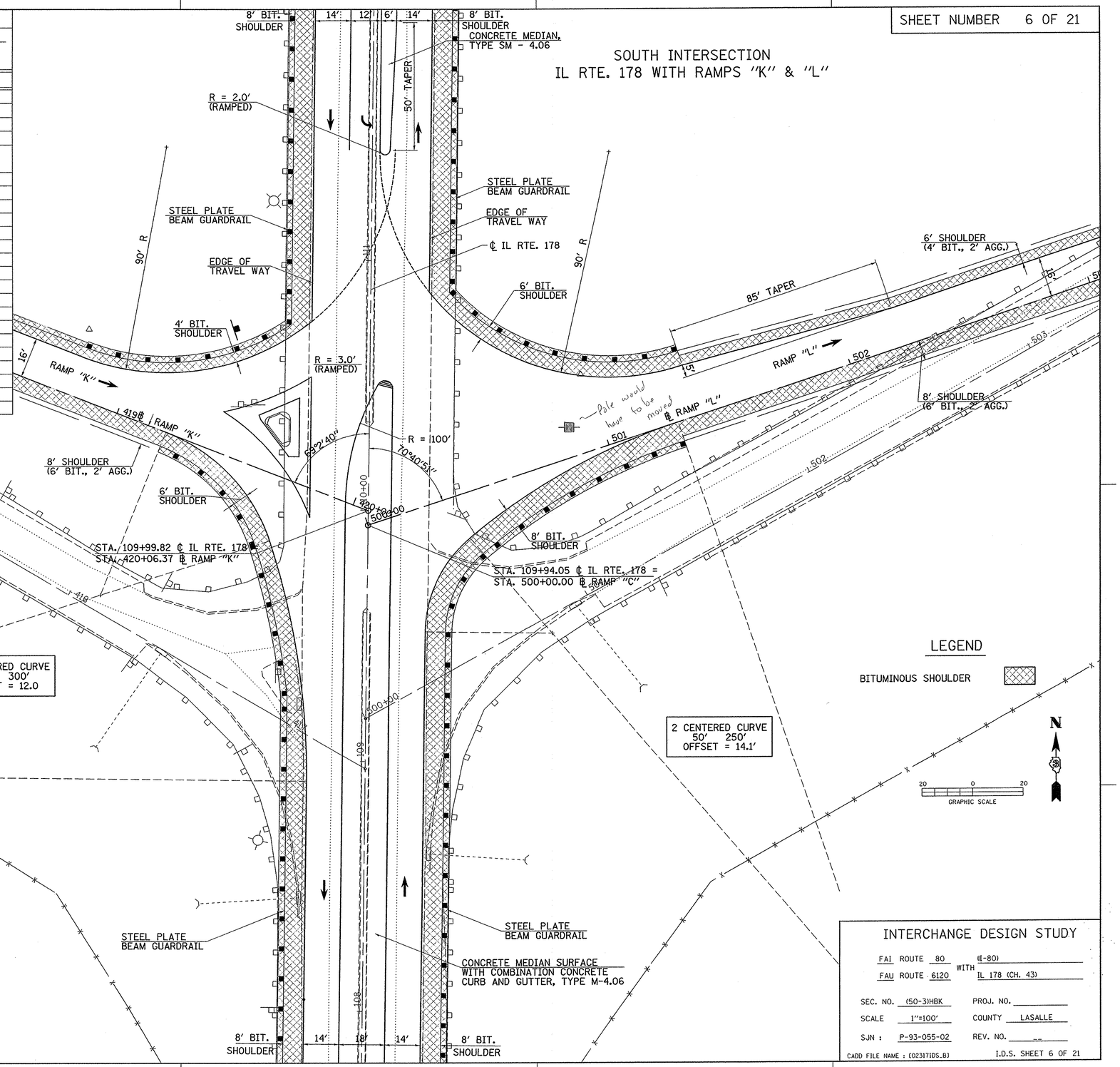
PEAK HOUR FACTOR 0.88
A.M. 10.0SEC. P.M. 12.6SEC.
INTERSECTION LEVEL OF SERVICE
A.M. A P.M. B

APPROACH		A (S/B)		B (N/B)		C (E/B)		D	
BUS STOP CONDITION		-		-		-			
PARKING MANEUVER/HR.		-		-		-			
PEDESTRIANS		-		-		-			
ARRIVAL TYPE		3		3		3			
LANE UTILIZATION FACTOR		1.00	1.00	1.00		1.00			
BASE SATURATION FLOW		1900	1900	1900		1900			
D - DISTANCE		6′	145′	385′		325′			
LANE GROUP		L	T	TR		LR			
LANE WIDTHS		12′	14′	14′		16′			
GREEN TIME (SECONDS)	A.M.	33	33	33		19			
	P.M.	33	33	33		19			
G/C RATIO	A.M.	0.55	0.55	0.55		0.32			
	P.M.	0.55	0.55	0.55		0.32			
LANE GROUP DELAY (SECONDS)	A.M.	6.2	7.1	8.4		16.7			
	P.M.	6.3	7.3	9.8		21.7			
V/C RATIO	A.M.	0.03	0.24	0.44		0.41			
	P.M.	0.04	0.28	0.57		0.68			
LEVEL OF SERVICE	A.M.	A	A	A		B			
	P.M.	A	A	A		C			
20__ 30TH MAX. HOUR TRAFFIC	A.M.		217	396		231			
	P.M.		251	505		346			
____ 8TH MAX. HOURLY TRAFFIC	A.M.		84	143		81			
	P.M.		98	184		123			

PHASING DIAGRAM				TOTAL
I		II		
A.M.	19+(3+1)	A.M.	33+(3+1)	60 SEC.
P.M.	19+(3+1)	P.M.	33+(3+1)	60 SEC.

2028 DHV
I-80 / IL RTE. 178
% TRUCK, AM (PM)





LEGEND

BITUMINOUS SHOULDER

N

20 0 20
GRAPHIC SCALE

INTERCHANGE DESIGN STUDY

FAI ROUTE 80 (I-80)
WITH
FAU ROUTE 6120 IL 178 (CH. 43)

SEC. NO. (50-3)HBK
PROJ. NO. _____
SCALE 1″=100′
COUNTY LASALLE
SJN : P-93-055-02
REV. NO. __

CADD FILE NAME : (0231710S_B)
I.D.S. SHEET 6 OF 21

BDE-9908