CAPACITY DESIGN STUDY

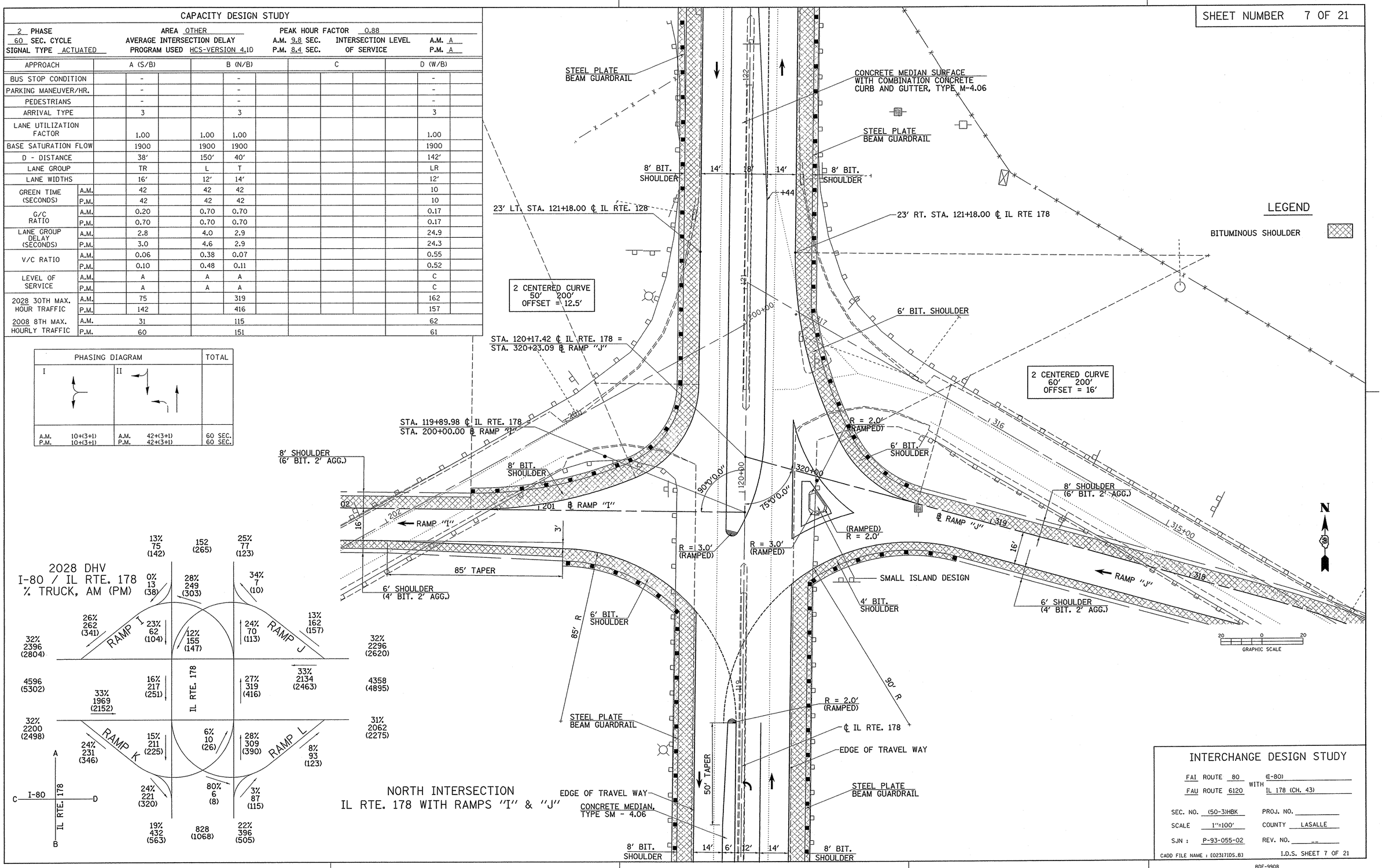
2 PHASE
60 SEC. CYCLE
SIGNAL TYPE ACTUATED

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

PEAK HOUR FACTOR 0.88
A.M. 9.8 SEC. INTERSECTION LEVEL A.M. A
P.M. 8.4 SEC. OF SERVICE P.M. A

APPROACH		A (S/B)	B (N/B)		C	D (W/B)
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		38′	150′	40′		142′
LANE GROUP		TR	L	T		LR
LANE WIDTHS		16′	12′	14′		12′
GREEN TIME (SECONDS)	A.M.	42	42	42		10
	P.M.	42	42	42		10
G/C RATIO	A.M.	0.20	0.70	0.70		0.17
	P.M.	0.70	0.70	0.70		0.17
LANE GROUP DELAY (SECONDS)	A.M.	2.8	4.0	2.9		24.9
	P.M.	3.0	4.6	2.9		24.3
V/C RATIO	A.M.	0.06	0.38	0.07		0.55
	P.M.	0.10	0.48	0.11		0.52
LEVEL OF SERVICE	A.M.	A	A	A		C
	P.M.	A	A	A		C
2028 30TH MAX. HOUR TRAFFIC	A.M.	75		319		162
	P.M.	142		416		157
2008 8TH MAX. HOURLY TRAFFIC	A.M.	31		115		62
	P.M.	60		151		61

PHASING DIAGRAM				TOTAL
I		II		
A.M.	10+(3+1)	A.M.	42+(3+1)	60 SEC.
P.M.	10+(3+1)	P.M.	42+(3+1)	60 SEC.



INTERCHANGE DESIGN STUDY

FAI ROUTE 80 WITH ℄(I-80)
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 : [023171DS_B]
I.D.S. SHEET 7 OF 21

BDE-9908