APPENDIX

A

CORRESPONDENCE WITH
DPW INTERMODAL PLANNING DIVISION STAFF
AND TURNING MOVEMENT COUNT SUMMARIES -
EXISTING TRAFFIC SITUATION

Board of Zoning Adjustment
District of Columbia
CASE NO.16648
EXHIBIT NO.62A2

O. R. GEORGE & ASSOCIATES, INC.

Traffic Engineers – Transportation Planners

1738 Elton Road, Suite 321 • Silver Spring, MD 20903
Tel: (301) 439-7722 • Fax: (301) 439-7759

MEMORANDUM

DATE: November 15, 2000

TO: Mr. Abdoulaye Bah, Senior Planner
Office of Intermodal Planning
District of Columbia Department of Public Works

FROM: Osborne George

RE: BP-Amoco BZA and Alley Closing Applications –Site Located in 300-block of H Street, N.E. (Square 776), Washington, D.C.

Further to our recent telephone conversation, this is to confirm that we have been retained by the applicant in the above referenced matters to prepare the required traffic impact studies. The subject property has been improved with a gas station and other automobile related uses since 1959. BP-Amoco has acquired several additional properties to the east. They now propose to consolidate these into an expanded site, and to modify the improvements to consist of a self-service gas station with eight fueling positions, a convenience store, and a car wash.

Since the site is located along a principal arterial serving high volumes of commuter traffic, it is expected to attract most of its patronage trips from the adjacent traffic stream. ***Few trips will have the site as their destination. The applicant's plans will also require modification of the alleyway system within the square.***

As the basis for our study, we propose to focus on the adjacent section of H Street, and its intersections with Third and Fourth Streets. Our effort will include (i) weekday AM and PM period turning movement counts at the adjacent intersections; (ii) a 12-hour count of vehicles accessing the existing properties, as well as those using the alleyway system; and (iii) projections of the traffic generation from the future site using vehicle trip generation rates recommended by the Institute of Transportation of Engineers. Beyond the above, our study will follow the procedures and guidelines typically required by the Department of Public Works for assessing the impacts of development proposals.

Please let me know if you have any comments in response to the above, or information that could be useful to our study. Thanks for your usual cooperation and assistance in this matter. Thank you!

ORG/hw

cc: John Patrick Brown, Esquire
Greenstein, DeLorme & Luchs

Ref: C: My Doc\Memos-BP AMOCO (j)

O.R. George & Associates. Inc.
1738 Elton Road, Suite 321
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Tel: (301)439-7722 Fax: (301)439-7759

Counted by :ORGA-LR
Board :D4-1907
City/County:Washington D.C.
Weather :Warm/Sunny/Dry

Study Name: 3RD@HST
Site Code : 08391907
Start Date: 11/09/00

Total Traffic

	3rd Street From North					3rd Street From South					H Street From East					H Street From West					
End Time	Left	Thru	RightU-Turn		Aprch Total	Left	Thru	RightU-Turn		Aprch Total	Left	Thru	RightU-Turn		Aprch Total	Left	Thru	RightU-Turn		Aprch Total	Intvl Total
11/09/00																					
07:15	4	6	13	0	23	8	7	0	0	15	6	334	12	0	352	6	61	2	0	69	459
07:30	9	6	12	0	27	8	12	3	0	23	7	375	23	1	406	9	66	1	0	76	532
07:45	6	2	9	0	17	13	14	3	0	30	3	360	24	0	387	8	67	2	0	77	511
08:00	8	10	13	0	31	8	20	4	0	32	6	400	29	1	436	3	62	1	0	66	565
Hour	27	24	47	0	98	37	53	10	0	100	22	1469	88	2	1581	26	256	6	0	288	2067
08:15	9	12	11	0	32	18	16	7	0	41	10	401	29	0	440	13	110	5	0	128	641
08:30	5	18	14	0	37	13	22	5	0	40	11	418	39	0	468	8	71	1	0	80	625
08:45	10	23	17	0	50	15	20	7	0	42	11	397	38	0	446	14	70	5	1	90	628
09:00	8	16	33	0	57	26	19	8	0	53	10	362	29	0	401	12	71	9	0	92	603
Hour	32	69	75	0	176	72	77	27	0	176	42	1578	135	0	1755	47	322	20	1	390	2497
(BREAK)																					
16:15	14	15	13	0	42	6	21	8	0	35	7	141	16	1	165	12	218	15	0	245	487
16:30	28	12	17	0	57	11	14	7	0	32	9	131	20	0	160	16	261	8	0	285	534
16:45	38	27	20	0	85	12	16	14	0	42	3	147	16	0	166	15	267	10	1	293	586
17:00	20	19	15	0	54	9	12	8	0	29	9	130	13	0	152	21	290	17	0	328	563
Hour	100	73	65	0	238	38	63	37	0	138	28	549	65	1	643	64	1036	50	1	1151	2170
17:15	30	16	22	0	68	11	15	4	0	30	4	125	15	0	144	19	336	8	0	363	605
17:30	22	21	10	0	53	6	14	7	0	27	3	122	17	0	142	17	313	10	1	341	563
17:45	32	9	18	0	59	9	11	4	0	24	4	106	5	0	115	17	264	10	3	294	492
18:00	16	14	12	0	42	9	18	6	0	33	2	97	10	0	109	15	270	10	0	295	479
Hour	100	60	62	0	222	35	58	21	0	114	13	450	47	0	510	68	1183	38	4	1293	2139
Total	259	226	249	0	734	182	251	95	0	528	105	4046	335	3	4489	205	2797	114	6	3122	8873
% Apr.	35.2	30.7	33.9	-	-	34.4	47.5	17.9	-	-	2.3	90.1	7.4	-	-	6.5	89.5	3.6	0.1	-	-
% Int.	2.9	2.5	2.8	-	-	2.0	2.8	1.0	-	-	1.1	45.5	3.7	-	-	2.3	31.5	1.2	-	-	-

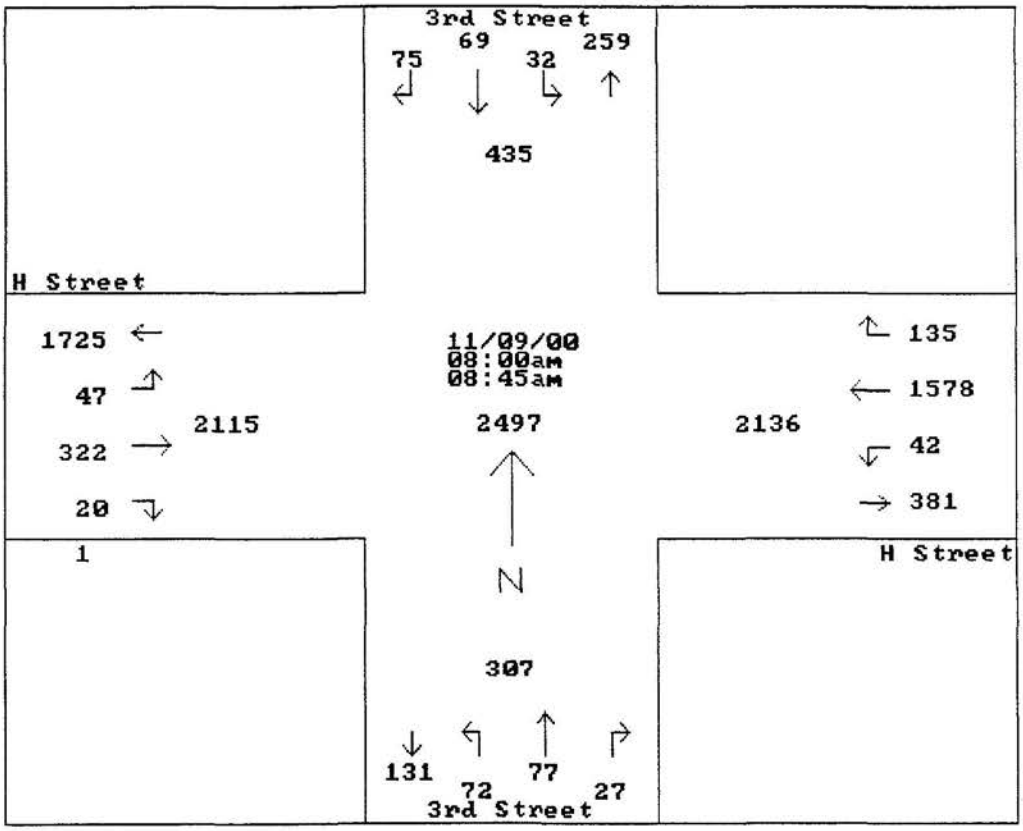
O.R. George & Associates, Inc.
1738 Elton Road, Suite 321
Silver Spring, MD 20903
Tel: (301)439-7722 Fax: (301)439-7759

Counted by :ORGA-LR
Board :D4-1907
City/County:Washington D.C.
Weather :Warm/Sunny/Dry

Study Name: 3RD@HST
Site Code : 08391907
Start Date: 11/09/00

Total Traffic

End Time	3rd Street From North Left	Thru	Right	U-Turn	Aprch Total	3rd Street From South Left	Thru	Right	U-Turn	Aprch Total	H Street From East Left	Thru	Right	U-Turn	Aprch Total	H Street From West Left	Thru	Right	U-Turn	Aprch Total	Intvl Total
Peak Hour Analysis By Entire Intersection for the Period: 07:00 on 11/09/00 to 08:45 on 11/09/00																					
Time	08:00					08:00					08:00					08:00					
Vol.	32	69	75	0		72	77	27	0		42	1578	135	0		47	322	20	1		
Pct.	18.1	39.2	42.6	0.0		40.9	43.7	15.3	0.0		2.3	89.9	7.6	0.0		12.0	82.5	5.1	0.2		
Total	176					176					1755					390					
High	08:45					08:45					08:15					08:00					
Vol.	8	16	33	0		26	19	8	0		11	418	39	0		13	110	5	0		
Total	57					53					468					128					
PHF	0.771					0.830					0.937					0.761					



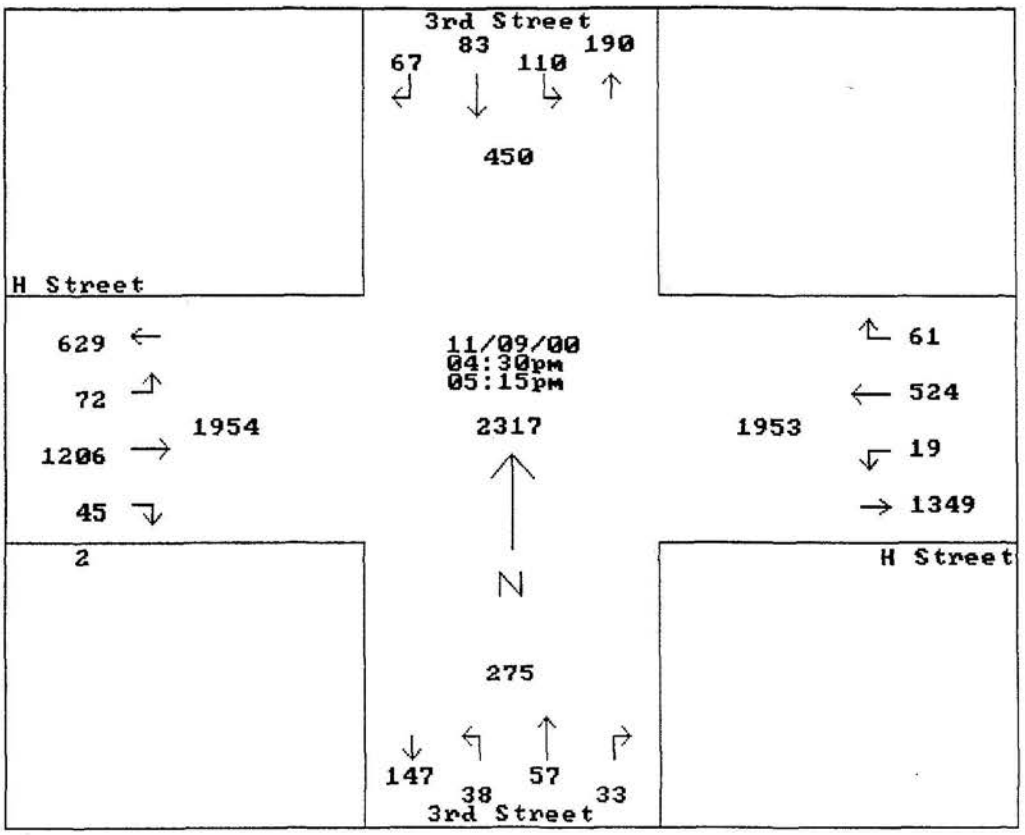
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Start Date: 11/09/00

Total Traffic

End	3rd Street From North					3rd Street From South					H Street From East					H Street From West				
Time	Left	Thru	RightU-Turn	Aprch Total		Left	Thru	RightU-Turn	Aprch Total		Left	Thru	RightU-Turn	Aprch Total		Left	Thru	RightU-Turn	Aprch Total	Intvl Total
Peak Hour Analysis By Entire Intersection for the Period: 16:00 on 11/09/00 to 17:45 on 11/09/00																				
Time	16:30					16:30					16:30					16:30				
Vol.	110	83	67	0		38	57	33	0		19	524	61	0		72	1206	45	2	
Pct.	42.3	31.9	25.7	0.0		29.6	44.5	25.7	0.0		3.1	86.7	10.0	0.0		5.4	91.0	3.3	0.1	
Total	260					128					604					1325				
High	16:30					16:30					16:30					17:00				
Vol.	38	27	20	0		12	16	14	0		3	147	16	0		19	336	8	0	
Total	85					42					166					363				
PHF	0.764					0.761					0.909					0.912				



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Study Name: 3RD@HST
Site Code : 08391907
Start Date: 11/09/00

Passenger Vehicles

	3rd Street From North					3rd Street From South					H Street From East					H Street From West					
End Time	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Intvl Total
11/09/00																					
07:15	4	6	13	0	23	8	6	0	0	14	6	314	11	0	331	5	54	2	0	61	429
07:30	9	6	11	0	26	8	11	3	0	22	7	358	22	1	388	9	58	1	0	68	504
07:45	6	2	9	0	17	13	13	2	0	28	3	339	23	0	365	8	63	1	0	72	482
08:00	8	10	13	0	31	8	19	4	0	31	6	377	28	1	412	3	55	0	0	58	532
Hour	27	24	46	0	97	37	49	9	0	95	22	1388	84	2	1496	25	230	4	0	259	1947
08:15	9	12	11	0	32	18	16	7	0	41	7	384	29	0	420	12	105	5	0	122	615
08:30	5	17	14	0	36	13	21	4	0	38	10	398	39	0	447	8	62	1	0	71	592
08:45	10	21	16	0	47	14	20	7	0	41	11	367	38	0	416	13	64	5	1	83	587
09:00	8	15	32	0	55	26	18	7	0	51	10	330	28	0	368	12	64	9	0	85	559
Hour	32	65	73	0	170	71	75	25	0	171	38	1479	134	0	1651	45	295	20	1	361	2353
[BREAK]																					
16:15	14	15	13	0	42	5	19	7	0	31	7	131	16	1	155	12	199	15	0	226	454
16:30	27	12	15	0	54	11	14	6	0	31	9	123	18	0	150	16	245	8	0	269	504
16:45	37	26	19	0	82	12	16	13	0	41	3	144	16	0	163	15	257	10	1	283	569
17:00	19	19	14	0	52	8	12	8	0	28	9	124	12	0	145	21	279	17	0	317	542
Hour	97	72	61	0	230	36	61	34	0	131	28	522	62	1	613	64	980	50	1	1095	2069
17:15	29	16	22	0	67	11	14	4	0	29	4	121	14	0	139	19	323	8	0	350	585
17:30	22	21	10	0	53	6	14	7	0	27	3	117	17	0	137	17	306	10	1	334	551
17:45	32	9	17	0	58	9	11	4	0	24	4	99	5	0	108	17	254	10	3	284	474
18:00	16	14	12	0	42	9	17	6	0	32	2	95	10	0	107	15	261	10	0	286	467
Hour	99	60	61	0	220	35	56	21	0	112	13	432	46	0	491	68	1144	38	4	1254	2077
Total	255	221	241	0	717	179	241	89	0	509	101	3821	326	3	4251	202	2649	112	6	2969	8446
% Apr.	35.5	30.8	33.6	-	-	35.1	47.3	17.4	-	-	2.3	89.8	7.6	-	-	6.8	89.2	3.7	0.2	-	-
% Int.	3.0	2.6	2.8	-	-	2.1	2.8	1.0	-	-	1.1	45.2	3.8	-	-	2.3	31.3	1.3	-	-	-

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Counted by :ORGA-LR
Board :D4-1907
City/County:Washington D.C.
Weather :Warm/Sunny/Dry

Study Name: 3RD@HST
Site Code : 08391907
Start Date: 11/09/00

Trucks

	3rd Street From North					3rd Street From South					H Street From East					H Street From West					
End Time	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Intvl Total
11/09/00																					
07:15	0	0	0	0	0	0	1	0	0	1	0	14	1	0	15	0	2	0	0	2	18
07:30	0	0	1	0	1	0	0	0	0	0	0	13	1	0	14	0	1	0	0	1	16
07:45	0	0	0	0	0	0	1	1	0	2	0	15	1	0	16	0	1	1	0	2	20
08:00	0	0	0	0	0	0	1	0	0	1	0	15	1	0	16	0	3	1	0	4	21
Hour	0	0	1	0	1	0	3	1	0	4	0	57	4	0	61	0	7	2	0	9	75
08:15	0	0	0	0	0	0	0	0	0	0	3	17	0	0	20	0	0	0	0	0	20
08:30	0	1	0	0	1	0	1	1	0	2	1	11	0	0	12	0	4	0	0	4	19
08:45	0	2	1	0	3	1	0	0	0	1	0	25	0	0	25	1	0	0	0	1	30
09:00	0	1	1	0	2	0	1	1	0	2	0	25	0	0	25	0	2	0	0	2	31
Hour	0	4	2	0	6	1	2	2	0	5	4	78	0	0	82	1	6	0	0	7	100
[BREAK]																					
16:15	0	0	0	0	0	1	2	1	0	4	0	2	0	0	2	0	6	0	0	6	12
16:30	1	0	1	0	2	0	0	1	0	1	0	1	0	0	1	0	10	0	0	10	14
16:45	1	1	1	0	3	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	7
17:00	1	0	1	0	2	1	0	0	0	1	0	0	1	0	1	0	3	0	0	3	7
Hour	3	1	3	0	7	2	2	2	0	6	0	3	1	0	4	0	23	0	0	23	40
17:15	1	0	0	0	1	0	0	0	0	0	0	2	1	0	3	0	4	0	0	4	8
17:30	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	2
17:45	0	0	1	0	1	0	0	0	0	0	0	2	0	0	2	0	4	0	0	4	7
18:00	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	4	0	0	4	5
Hour	1	0	1	0	2	0	1	0	0	1	0	5	1	0	6	0	13	0	0	13	22
Total	4	5	7	0	16	3	8	5	0	16	4	143	6	0	153	1	49	2	0	52	237
% Apr.	25.0	31.2	43.7	-	-	18.7	50.0	31.2	-	-	2.6	93.4	3.9	-	-	1.9	94.2	3.8	-	-	-
% Int.	1.6	2.1	2.9	-	-	1.2	3.3	2.1	-	-	1.6	60.3	2.5	-	-	0.4	20.6	0.8	-	-	-

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Counted by :ORGA-LR
Board :D4-1907
City/County:Washington D.C.
Weather :Warm/Sunny/Dry

Study Name: 3RD@HST
Site Code : 08391907
Start Date: 11/09/00

Buses

	3rd Street From North					3rd Street From South					H Street From East					H Street From West					
End Time	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Intvl Total
11/09/00																					
07:15	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	1	5	0	0	6	12
07:30	0	0	0	0	0	0	1	0	0	1	0	4	0	0	4	0	7	0	0	7	12
07:45	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0	3	0	0	3	9
08:00	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0	4	0	0	4	12
Hour	0	0	0	0	0	0	1	0	0	1	0	24	0	0	24	1	19	0	0	20	45
08:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	0	6	6
08:30	0	0	0	0	0	0	0	0	0	0	0	9	0	0	9	0	5	0	0	5	14
08:45	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	6	0	0	6	11
09:00	0	0	0	0	0	0	0	0	0	0	0	7	1	0	8	0	5	0	0	5	13
Hour	0	0	0	0	0	0	0	0	0	0	0	21	1	0	22	1	21	0	0	22	44
[BREAK]																					
16:15	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0	13	0	0	13	21
16:30	0	0	1	0	1	0	0	0	0	0	0	7	2	0	9	0	6	0	0	6	16
16:45	0	0	0	0	0	0	0	1	0	1	0	3	0	0	3	0	6	0	0	6	10
17:00	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6	0	8	0	0	8	14
Hour	0	0	1	0	1	0	0	1	0	1	0	24	2	0	26	0	33	0	0	33	61
17:15	0	0	0	0	0	0	1	0	0	1	0	2	0	0	2	0	9	0	0	9	12
17:30	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4	0	6	0	0	6	10
17:45	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	6	0	0	6	11
18:00	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	5	0	0	5	7
Hour	0	0	0	0	0	0	1	0	0	1	0	13	0	0	13	0	26	0	0	26	40
Total	0	0	1	0	1	0	2	1	0	3	0	82	3	0	85	2	99	0	0	101	190
% Apr.	-	-	100.0	-	-	-	66.6	33.3	-	-	-	96.4	3.5	-	-	1.9	98.0	-	-	-	-
% Int.	-	-	0.5	-	-	-	1.0	0.5	-	-	-	43.1	1.5	-	-	1.0	52.1	-	-	-	-

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Counted by :ORGA-TJ
Board :D4-1908
City/County:Washington, D.C.
Weather :Warm/Clear/Dry

Study Name: 4TH@HSTR
Site Code : 09491908
Start Date: 11/09/00

Total Traffic

	4th Street From North					4th Street From South					H Street From East					H Street From West					
End Time	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Intvl Total
11/09/00																					
07:15	9	31	15	0	55	0	0	0	0	0	5	366	0	0	371	0	61	6	0	67	493
07:30	4	31	17	0	52	0	0	0	0	0	4	394	0	0	398	0	83	4	0	87	537
07:45	7	40	17	0	64	0	0	0	0	0	10	404	0	0	414	0	72	2	0	74	552
08:00	2	54	20	0	76	0	0	0	0	0	8	402	0	0	410	0	75	3	0	78	564
Hour	22	156	69	0	247	0	0	0	0	0	27	1566	0	0	1593	0	291	15	0	306	2146
08:15	11	57	24	0	92	0	0	0	0	0	5	415	0	0	420	0	92	9	0	101	613
08:30	9	44	24	0	77	0	0	0	0	0	10	424	0	0	434	0	86	3	0	89	600
08:45	16	64	29	0	109	0	0	0	0	0	7	417	0	0	424	0	86	6	0	92	625
09:00	12	51	21	0	84	0	0	0	0	0	6	412	0	0	418	0	81	8	0	89	591
Hour	48	216	98	0	362	0	0	0	0	0	28	1668	0	0	1696	0	345	26	0	371	2429
[BREAK																					
16:15	22	77	26	0	125	0	0	0	0	0	10	130	0	0	140	0	255	11	0	266	531
16:30	25	61	32	0	118	0	0	0	0	0	6	128	0	0	134	0	278	15	0	293	545
16:45	18	60	15	0	93	0	0	0	0	0	7	150	0	0	157	0	309	12	0	321	571
17:00	27	67	20	0	114	0	0	0	0	0	7	132	0	0	139	0	302	11	0	313	566
Hour	92	265	93	0	450	0	0	0	0	0	30	540	0	0	570	0	1144	49	0	1193	2213
17:15	23	78	19	0	120	0	0	0	0	0	6	135	0	0	141	0	377	12	0	389	650
17:30	26	71	23	0	120	0	0	0	0	0	12	127	0	0	139	0	331	13	0	344	603
17:45	19	71	18	0	108	0	0	0	0	0	5	115	0	0	120	0	298	14	0	312	540
18:00	16	73	13	0	102	0	0	0	0	0	9	98	0	0	107	0	313	12	0	325	534
Hour	84	293	73	0	450	0	0	0	0	0	32	475	0	0	507	0	1319	51	0	1370	2327
Total	246	930	333	0	1509	0	0	0	0	0	117	4249	0	0	4366	0	3099	141	0	3240	9115
% Apr.	16.3	61.6	22.0	-	-	-	-	-	-	-	2.6	97.3	-	-	-	-	95.6	4.3	-	-	-
% Int.	2.6	10.2	3.6	-	-	-	-	-	-	-	1.2	46.6	-	-	-	-	33.9	1.5	-	-	-

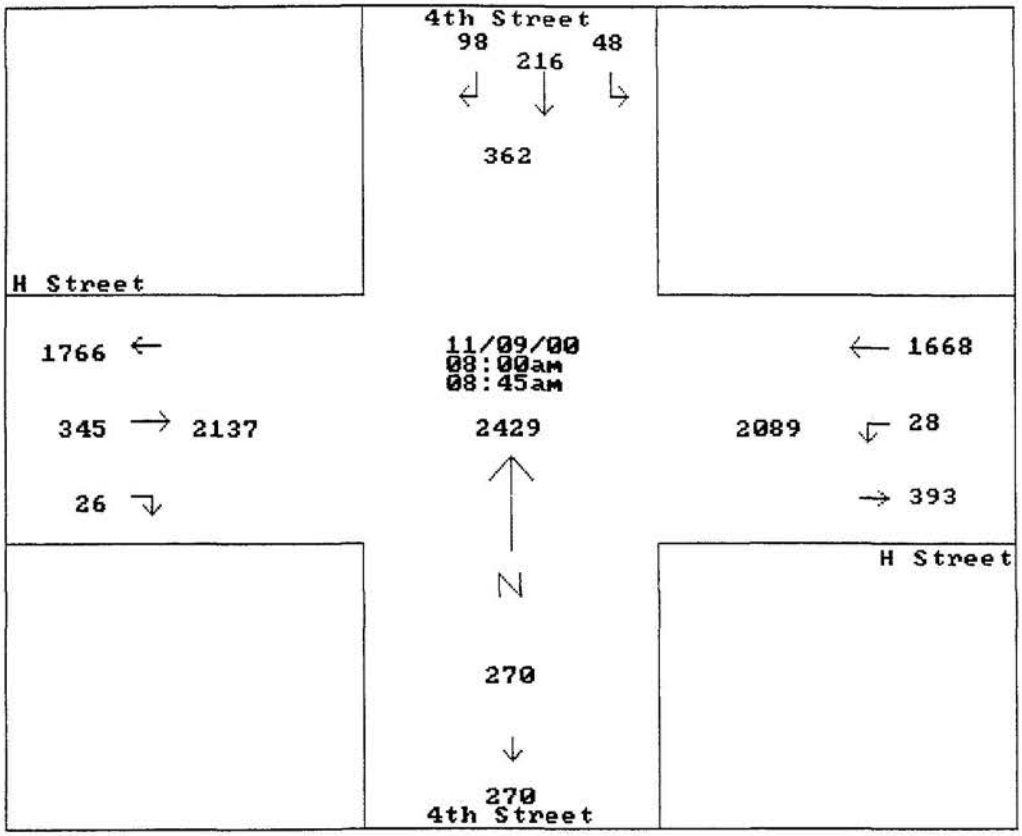
O.R. George & Associates, Inc.
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Counted by :ORGA-TJ
Board :D4-1908
City/County:Washington, D.C.
Weather :Warm/Clear/Dry

Study Name: 4TH@HSTR
Site Code : 09491908
Start Date: 11/09/00

Total Traffic

End	4th Street From North					4th Street From South					H Street From East					H Street From West				
Time	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Intvl Total
Peak Hour Analysis By Entire Intersection for the Period: 07:00 on 11/09/00 to 08:45 on 11/09/00																				
Time	08:00					08:00					08:00					08:00				
Vol.	48	216	98	0		0	0	0	0		28	1668	0	0		0	345	26	0	
Pct.	13.2	59.6	27.0	0.0		0.0	0.0	0.0	0.0		1.6	98.3	0.0	0.0		0.0	92.9	7.0	0.0	
Total	362					0					1696					371				
High	08:30					08:15					08:15					08:00				
Vol.	16	64	29	0		0	0	0	0		10	424	0	0		0	92	9	0	
Total	109					0					434					101				
PHF	0.830					0.000					0.976					0.918				



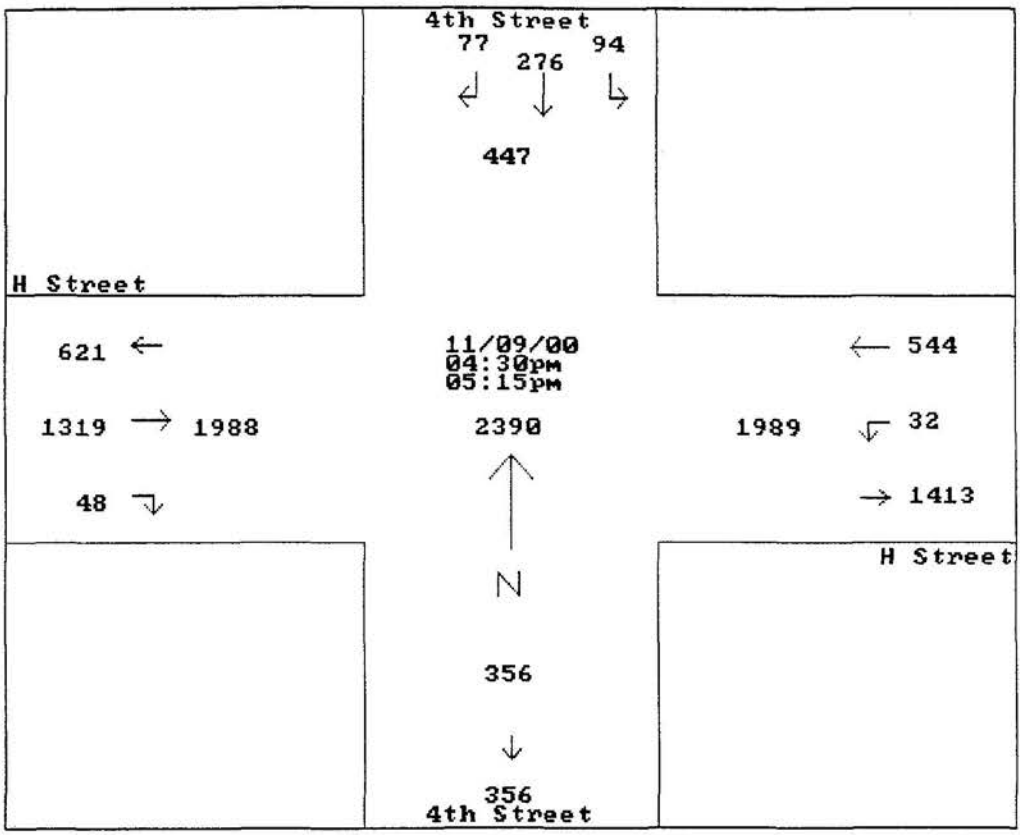
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City/County:Washington, D.C.
Weather :Warm/Clear/Dry

Study Name: 4TH@HSTR
Site Code : 09491908
Start Date: 11/09/00

Total Traffic

End	4th Street From North					4th Street From South					H Street From East					H Street From West					
Time	Left	Thru	RightU-Turn		Aprch Total	Left	Thru	RightU-Turn		Aprch Total	Left	Thru	RightU-Turn		Aprch Total	Left	Thru	RightU-Turn		Aprch Total	Intvl Total
Peak Hour Analysis By Entire Intersection for the Period: 16:00 on 11/09/00 to 17:45 on 11/09/00																					
Time	16:30					16:30					16:30					16:30					
Vol.	94	276	77	0		0	0	0	0		32	544	0	0		0	1319	48	0		
Pct.	21.0	61.7	17.2	0.0		0.0	0.0	0.0	0.0		5.5	94.4	0.0	0.0		0.0	96.4	3.5	0.0		
Total	447					0					576					1367					
High	17:00					16:30					16:30					17:00					
Vol.	23	78	19	0		0	0	0	0		7	150	0	0		0	377	12	0		
Total	120					0					157					389					
PHF	0.931					0.000					0.917					0.878					



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Weather :Warm/Clear/Dry

Study Name: 4TH@HSTR
Site Code : 09491908
Start Date: 11/09/00

Passenger Vehicles

	4th Street From North					4th Street From South					H Street From East					H Street From West					
End Time	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Intvl Total
11/09/00																					
07:15	5	23	10	0	38	0	0	0	0	0	5	348	0	0	353	0	56	6	0	62	453
07:30	4	28	12	0	44	0	0	0	0	0	3	378	0	0	381	0	75	3	0	78	503
07:45	5	31	10	0	46	0	0	0	0	0	9	385	0	0	394	0	67	1	0	68	508
08:00	2	47	13	0	62	0	0	0	0	0	8	383	0	0	391	0	68	2	0	70	523
Hour	16	129	45	0	190	0	0	0	0	0	25	1494	0	0	1519	0	266	12	0	278	1987
08:15	11	56	19	0	86	0	0	0	0	0	4	396	0	0	400	0	86	9	0	95	581
08:30	9	42	17	0	68	0	0	0	0	0	9	405	0	0	414	0	74	3	0	77	559
08:45	15	60	21	0	96	0	0	0	0	0	7	394	0	0	401	0	79	6	0	85	582
09:00	12	46	15	0	73	0	0	0	0	0	5	384	0	0	389	0	74	7	0	81	543
Hour	47	204	72	0	323	0	0	0	0	0	25	1579	0	0	1604	0	313	25	0	338	2265
[BREAK]																					
16:15	20	72	23	0	115	0	0	0	0	0	9	122	0	0	131	0	238	10	0	248	494
16:30	25	61	30	0	116	0	0	0	0	0	5	118	0	0	123	0	259	14	0	273	512
16:45	18	59	14	0	91	0	0	0	0	0	6	146	0	0	152	0	300	11	0	311	554
17:00	27	66	17	0	110	0	0	0	0	0	7	127	0	0	134	0	291	11	0	302	546
Hour	90	258	84	0	432	0	0	0	0	0	27	513	0	0	540	0	1088	46	0	1134	2106
17:15	23	75	18	0	116	0	0	0	0	0	6	131	0	0	137	0	360	12	0	372	625
17:30	26	64	20	0	110	0	0	0	0	0	12	121	0	0	133	0	325	13	0	338	581
17:45	19	71	14	0	104	0	0	0	0	0	5	112	0	0	117	0	290	14	0	304	525
18:00	16	71	12	0	99	0	0	0	0	0	9	96	0	0	105	0	306	12	0	318	522
Hour	84	281	64	0	429	0	0	0	0	0	32	460	0	0	492	0	1281	51	0	1332	2253
Total	237	872	265	0	1374	0	0	0	0	0	109	4046	0	0	4155	0	2948	134	0	3082	8611
% Apr.	17.2	63.4	19.2	-	-	-	-	-	-	-	2.6	97.3	-	-	-	-	95.6	4.3	-	-	-
% Int.	2.7	10.1	3.0	-	-	-	-	-	-	-	1.2	46.9	-	-	-	-	34.2	1.5	-	-	-

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Weather :Warm/Clear/Dry

Study Name: 4TH@HSTR
Site Code : 09491908
Start Date: 11/09/00

Trucks

End	4th Street From North					4th Street From South					H Street From East					H Street From West					
Time	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Left	Thru	Right	U-Turn	Aprch Total	Intvl Total
11/09/00																					
07:15	1	7	4	0	12	0	0	0	0	0	0	14	0	0	14	0	1	0	0	1	27
07:30	0	3	4	0	7	0	0	0	0	0	1	12	0	0	13	0	3	0	0	3	23
07:45	2	8	6	0	16	0	0	0	0	0	1	12	0	0	13	0	2	1	0	3	32
08:00	0	5	4	0	9	0	0	0	0	0	0	14	0	0	14	0	3	1	0	4	27
Hour	3	23	18	0	44	0	0	0	0	0	2	52	0	0	54	0	9	2	0	11	109
08:15	0	1	5	0	6	0	0	0	0	0	1	16	0	0	17	0	1	0	0	1	24
08:30	0	2	3	0	5	0	0	0	0	0	1	16	0	0	17	0	7	0	0	7	29
08:45	1	3	6	0	10	0	0	0	0	0	0	19	0	0	19	0	1	0	0	1	30
09:00	0	3	5	0	8	0	0	0	0	0	1	22	0	0	23	0	3	1	0	4	35
Hour	1	9	19	0	29	0	0	0	0	0	3	73	0	0	76	0	12	1	0	13	118
[BREAK]																					
16:15	2	1	1	0	4	0	0	0	0	0	0	1	0	0	1	0	8	1	0	9	14
16:30	0	0	1	0	1	0	0	0	0	0	0	4	0	0	4	0	13	1	0	14	19
16:45	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	5	1	0	6	8
17:00	0	1	1	0	2	0	0	0	0	0	0	1	0	0	1	0	4	0	0	4	7
Hour	2	2	3	0	7	0	0	0	0	0	0	8	0	0	8	0	30	3	0	33	48
17:15	0	1	0	0	1	0	0	0	0	0	0	3	0	0	3	0	8	0	0	8	12
17:30	0	1	1	0	2	0	0	0	0	0	0	4	0	0	4	0	2	0	0	2	8
17:45	0	0	1	0	1	0	0	0	0	0	0	1	0	0	1	0	4	0	0	4	6
18:00	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	6
Hour	0	3	2	0	5	0	0	0	0	0	0	8	0	0	8	0	19	0	0	19	32
Total	6	37	42	0	85	0	0	0	0	0	5	141	0	0	146	0	70	6	0	76	307
% Apr.	7.0	43.5	49.4	-	-	-	-	-	-	-	3.4	96.5	-	-	-	-	92.1	7.8	-	-	-
% Int	1.9	12.0	13.6	-	-	-	-	-	-	-	1.6	45.9	-	-	-	-	22.8	1.9	-	-	-

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Study Name: 4TH@HSTR
Site Code : 09491908
Start Date: 11/09/00

Buses

End	4th Street From North					4th Street From South					H Street From East					H Street From West					
Time	Left	Thru	RightU-Turn		Aprch Total	Left	Thru	RightU-Turn		Aprch Total	Left	Thru	RightU-Turn		Aprch Total	Left	Thru	RightU-Turn		Aprch Total	Intvl Total
11/09/00																					
07:15	3	1	1	0	5	0	0	0	0	0	0	4	0	0	4	0	4	0	0	4	13
07:30	0	0	1	0	1	0	0	0	0	0	0	4	0	0	4	0	5	1	0	6	11
07:45	0	1	1	0	2	0	0	0	0	0	0	7	0	0	7	0	3	0	0	3	12
08:00	0	2	3	0	5	0	0	0	0	0	0	5	0	0	5	0	4	0	0	4	14
Hour	3	4	6	0	13	0	0	0	0	0	0	20	0	0	20	0	16	1	0	17	50
08:15	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	5	0	0	5	8
08:30	0	0	4	0	4	0	0	0	0	0	0	3	0	0	3	0	5	0	0	5	12
08:45	0	1	2	0	3	0	0	0	0	0	0	4	0	0	4	0	6	0	0	6	13
09:00	0	2	1	0	3	0	0	0	0	0	0	6	0	0	6	0	4	0	0	4	13
Hour	0	3	7	0	10	0	0	0	0	0	0	16	0	0	16	0	20	0	0	20	46
[BREAK]																					
16:15	0	4	2	0	6	0	0	0	0	0	1	7	0	0	8	0	9	0	0	9	23
16:30	0	0	1	0	1	0	0	0	0	0	1	6	0	0	7	0	6	0	0	6	14
16:45	0	1	1	0	2	0	0	0	0	0	1	2	0	0	3	0	4	0	0	4	9
17:00	0	0	2	0	2	0	0	0	0	0	0	4	0	0	4	0	7	0	0	7	13
Hour	0	5	6	0	11	0	0	0	0	0	3	19	0	0	22	0	26	0	0	26	59
17:15	0	2	1	0	3	0	0	0	0	0	0	1	0	0	1	0	9	0	0	9	13
17:30	0	6	2	0	8	0	0	0	0	0	0	2	0	0	2	0	4	0	0	4	14
17:45	0	0	3	0	3	0	0	0	0	0	0	2	0	0	2	0	4	0	0	4	9
18:00	0	1	1	0	2	0	0	0	0	0	0	2	0	0	2	0	2	0	0	2	6
Hour	0	9	7	0	16	0	0	0	0	0	0	7	0	0	7	0	19	0	0	19	42
Total	3	21	26	0	50	0	0	0	0	0	3	62	0	0	65	0	81	1	0	82	197
% Apr.	6.0	42.0	52.0	-	-	-	-	-	-	-	4.6	95.3	-	-	-	-	98.7	1.2	-	-	-
% Int.	1.5	10.6	13.1	-	-	-	-	-	-	-	1.5	31.4	-	-	-	-	41.1	0.5	-	-	-

APPENDIX

B

CAPACITY ANALYSIS WORKSHEETS -
EXISTING TRAFFIC SITUATION

HCS: Signalized Intersections Release 3.2

Inter: H St @ 3rd St
Analyst: ORGA-MFO
Date: 11/29/2000
E/W St: H Street

City/St: Washington, DC
Proj #: BP-Amoco
Period: AM Peak (8:00-9:00)
N/S St: 3rd Street

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	3	0	0	3	0	0	1	0	0	1	0
LGConfig		LTR			LTR			LTR			LTR	
Volume	48	322	20	42	1578	135	72	77	27	32	69	75
Lane Width		11.0			10.0			12.0			12.0	
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	P				NB Left	P		
Thru	P				Thru	P		
Right	P				Right	P		
Peds					Peds			
WB Left	P				SB Left	P		
Thru	P				Thru	P		
Right	P				Right	P		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	43.0					27.0		
Yellow	4.0					4.0		
All Red	1.0					1.0		

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios v/c	Ratios g/C	Lane Group Delay	Lane Group LOS	Approach Delay	Approach LOS
Eastbound								
LTR	1844	3431	0.28	0.538	10.4	B	10.4	B
Westbound								
LTR	2302	4283	0.79	0.538	17.9	B	17.9	B
Northbound								
LTR	438	1297	0.49	0.338	24.8	C	24.8	C
Southbound								
LTR	487	1442	0.47	0.338	24.1	C	24.1	C

Intersection Delay = 17.5 (sec/veh) Intersection LOS = B

HCS: Signalized Intersections Release 3.2

Inter: H St @ 3rd St
Analyst: ORGA-MFO
Date: 11/29/2000
E/W St: H Street

City/St: Washington, DC
Proj #: BP-Amoco
Period: PM Peak (4:30-5:30)
N/S St: 3rd Street

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	3	0	0	3	0	0	1	0	0	1	0
LGConfig		LTR			LTR			LTR			LTR	
Volume	74	1206	45	19	524	61	38	57	33	110	83	67
Lane Width		11.0			10.0			12.0			12.0	
RTOR Vol			0			0			0			0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left	P				NB Left	P		
Thru	P				Thru	P		
Right	P				Right	P		
Peds					Peds			
WB Left	P				SB Left	P		
Thru	P				Thru	P		
Right	P				Right	P		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green	43.0					27.0		
Yellow	4.0					4.0		
All Red	1.0					1.0		

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios v/c	Ratios g/C	Lane Group Delay	Lane Group LOS	Approach Delay	Approach LOS
Eastbound								
LTR	2218	4127	0.79	0.538	17.7	B	17.7	B
Westbound								
LTR	2151	4001	0.29	0.538	10.5	B	10.5	B
Northbound								
LTR	461	1367	0.34	0.338	21.8	C	21.8	C
Southbound								
LTR	437	1294	0.77	0.338	36.3	D	36.3	D

Intersection Delay = 18.5 (sec/veh) Intersection LOS = B

HCS: Signalized Intersections Release 3.2

Inter: H St. @ 4th St.
Analyst: ORGA-MFO
Date: 11/29/2000
E/W St: H Street

City/St: Washington, DC
Proj #: BP-Amoco
Period: AM Peak (8:00-9:00)
N/S St: 4th Street

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	3	0	0	3	0	0	0	0	0	1	0
LGConfig		TR			LT						LTR	
Volume		345	26	28	1668					48	216	98
Lane Width		10.0			10.0						12.0	
RTOR Vol			0									0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
WB Left		P			SB Left	P		
Thru		P			Thru	P		
Right					Right	P		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		42.0				28.0		
Yellow		4.0				4.0		
All Red		1.0				1.0		

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios v/c	Ratios g/C	Lane Group Delay	Lane Group LOS	Approach Delay	Approach LOS
Eastbound								
TR	2488	4740	0.17	0.525	10.0+	B	10.0+	B
Westbound								
LT	2332	4441	0.78	0.525	18.0	B	18.0	B
Northbound								
Southbound								
LTR	561	1604	0.80	0.350	34.6	C	34.6	C

Intersection Delay = 19.5 (sec/veh) Intersection LOS = B

HCS: Signalized Intersections Release 3.2

Inter: H St. @ 4th St.
Analyst: ORGA-MFO
Date: 11/29/2000
E/W St: H Street

City/St: Washington, DC
Proj #: BP-Amoco
Period: PM Peak (4:30-5:30)
N/S St: 4th Street

SIGNALIZED INTERSECTION SUMMARY

	Eastbound			Westbound			Northbound			Southbound		
	L	T	R	L	T	R	L	T	R	L	T	R
No. Lanes	0	3	0	0	3	0	0	0	0	0	1	0
LGConfig		TR			LT						LTR	
Volume		1319	48	32	544					94	276	77
Lane Width		10.0			10.0						13.0	
RTOR Vol			0									0

Duration 0.25 Area Type: All other areas

Signal Operations

Phase Combination	1	2	3	4	5	6	7	8
EB Left					NB Left			
Thru		P			Thru			
Right		P			Right			
Peds					Peds			
WB Left		P			SB Left	P		
Thru		P			Thru	P		
Right					Right	P		
Peds					Peds			
NB Right					EB Right			
SB Right					WB Right			
Green		42.0				28.0		
Yellow		4.0				4.0		
All Red		1.0				1.0		

Cycle Length: 80.0 secs

Intersection Performance Summary

Appr/ Lane Grp	Lane Group Capacity	Adj Sat Flow Rate (s)	Ratios v/c	Ratios g/C	Lane Group Delay	Lane Group LOS	Approach Delay	Approach LOS
Eastbound								
TR	2502	4766	0.62	0.525	14.6	B	14.6	B
Westbound								
LT	2013	3835	0.31	0.525	11.2	B	11.2	B
Northbound								
Southbound								
LTR	596	1704	0.79	0.350	33.6	C	33.6	C

Intersection Delay = 17.2 (sec/veh) Intersection LOS = B

APPENDIX

C

ACCIDENT SUMMARY REPORTS H STREET @
3RD STREET AND 4TH STREET INTERSECTIONS

PAGE: 1

FY-01 HIGHWAY SAFETY IMPROVEMENT PROGRAM
DC DPW: ACCIDENT SUMMARY REPORT (R-7)

DATE: 11/29/00

Rank	Location	
	4TH ST & H ST	NE

1995		1996		1997	
Accidents	Injuries	Accidents	Injuries	Accidents	Injuries
4	3	0	0	5	2

1995 - 1997 SUMMARIES

CONTRIBUTING FACTORS:

Driver		Vehicle		Roadway		Unknown	
6	66.7%	2	22.2%	0	0.0%	1	11.1%

COLLISION TYPES:

TOTAL	RA	LT	RT	RE	SS	HO	PK	FO	RO	PED	BACKING	NC	OT
9	1	1	0	1	2	2	0	0	0	1	1	0	0

ACCIDENT TIMES:

TIME	1995		1996		1997	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
07:30-09:30	1	25.0%	0	0.0%	1	20.0%
09:30-11:30	0	0.0%	0	0.0%	0	0.0%
11:30-13:30	0	0.0%	0	0.0%	2	40.0%
13:30-16:00	2	50.0%	0	0.0%	0	0.0%
16:00-18:30	0	0.0%	0	0.0%	1	20.0%
18:30-07:30	1	25.0%	0	0.0%	1	20.0%
TOTAL	4	100.0%	0	0.0%	5	100.0%
WEEKDAY	2	50.0%	0	0.0%	4	80.0%
WEEKEND	2	50.0%	0	0.0%	1	20.0%

SYMPTOM	SOLUTION ALTERNATIVE	RECOMMENDATION

PAGE: 1

FY-01 HIGHWAY SAFETY IMPROVEMENT PROGRAM
DC DPW: ACCIDENT SUMMARY REPORT (R-7)

DATE: 11/29/00

Rank	Location	
	3RD ST & H ST	NE

1995		1996		1997	
Accidents	Injuries	Accidents	Injuries	Accidents	Injuries
10	4	0	0	4	4

1995 - 1997 SUMMARIES

CONTRIBUTING FACTORS:

Driver		Vehicle		Roadway		Unknown	
2	14.3%	5	35.7%	0	0.0%	6	42.9%

COLLISION TYPES:

TOTAL	RA	LT	RT	RE	SS	HO	PK	FO	RO	PED	BACKING	NC	C
14	4	1	0	3	2	1	1	0	0	1	0	0	

ACCIDENT TIMES:

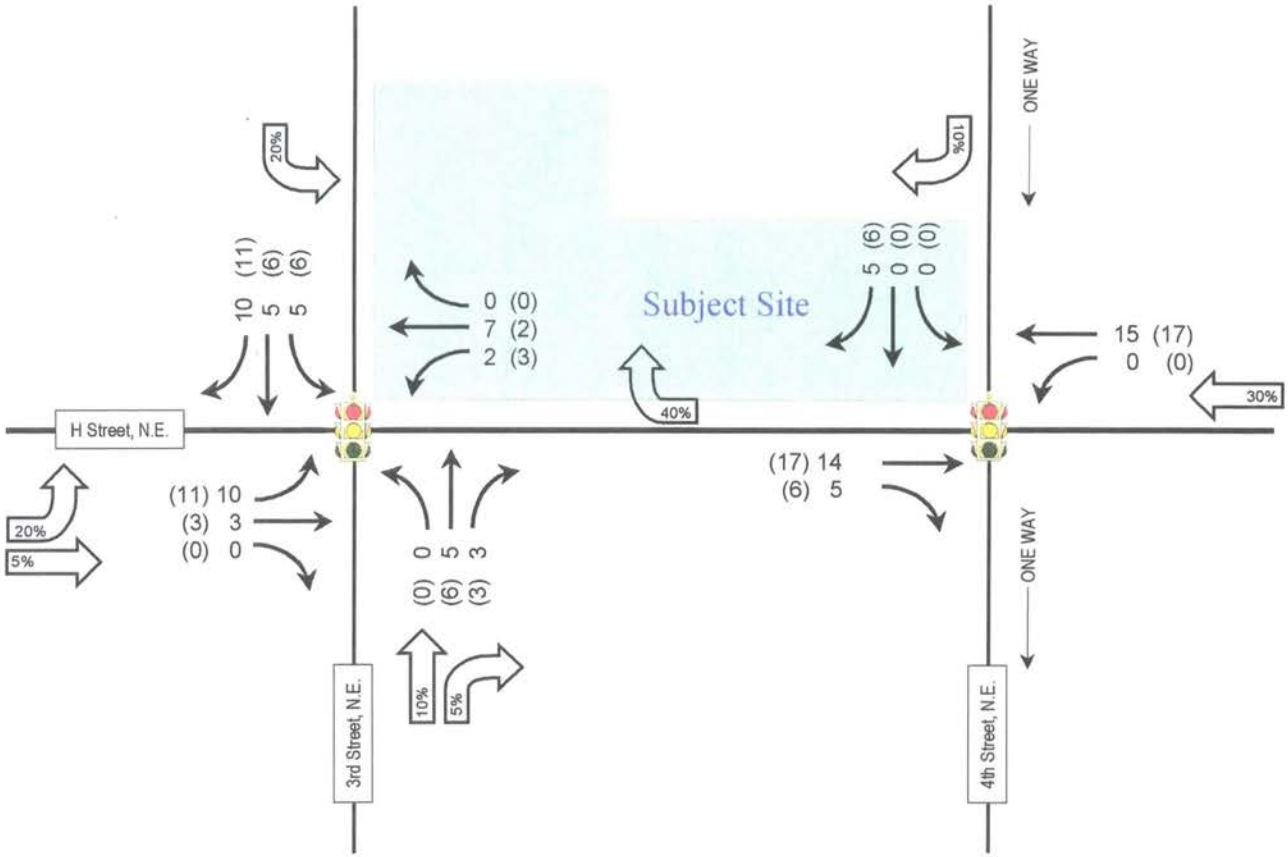
TIME	1995		1996		1997	
	NUMBER	PERCENT	NUMBER	PERCENT	NUMBER	PERCENT
07:30-09:30	0	0.0%	0	0.0%	3	75.0%
09:30-11:30	1	10.0%	0	0.0%	0	0.0%
11:30-13:30	0	0.0%	0	0.0%	1	25.0%
13:30-16:00	2	20.0%	0	0.0%	0	0.0%
16:00-18:30	5	50.0%	0	0.0%	0	0.0%
18:30-07:30	2	20.0%	0	0.0%	0	0.0%
TOTAL	10	100.0%	0	0.0%	4	100.0%
WEEKDAY	10	100.0%	0	0.0%	3	75.0%
WEEKEND	0	0.0%	0	0.0%	1	25.0%

SYMPTOM	SOLUTION ALTERNATIVE	RECOMMENDATION

APPENDIX

D

PROJECTED TRIP DISTRIBUTION -
PATTERN & TRIP ASSIGNMENT - BP AMOCO



O. R. GEORGE & ASSOCIATES, INC.

APPENDIX D 1: Projected Trip Distribution Pattern & Trip Assignment
BP-AMOCO Site Improvements, N.E. Washington, D.C.