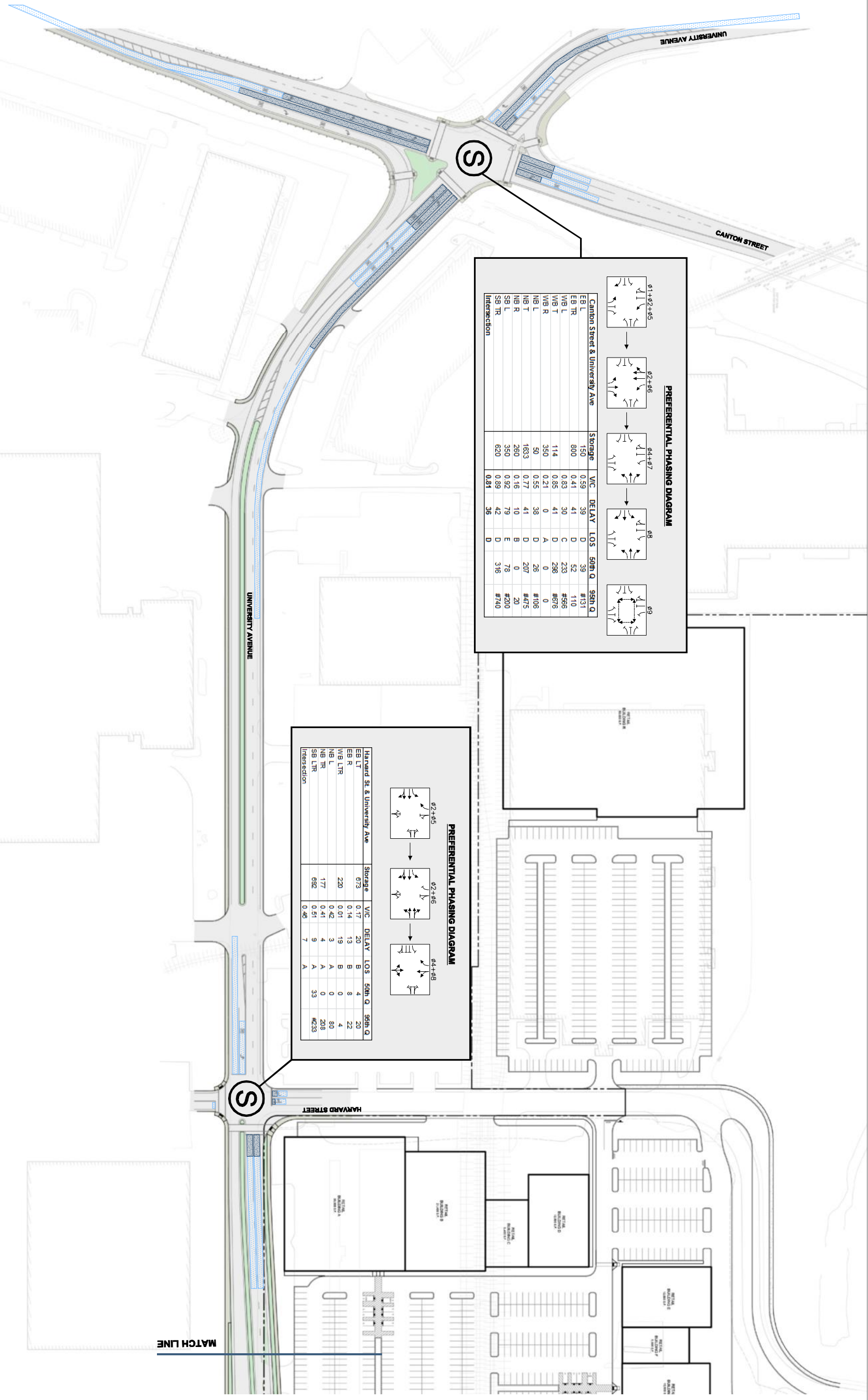


University Station
Westwood, Massachusetts



2022 Saturday Build
Traffic Volumes



PREFERENTIAL PHASING DIAGRAM

	Storage	V/C	DELAY	LOS	50th Q	95th Q
Canton Street & University Ave	150	0.59	39	D	39	#131
EB L	800	0.41	41	D	52	110
EB TR		0.83	30	C	233	#566
WB L	114	0.85	41	D	288	#976
WB TR	350	0.21	0	A	0	0
NB L	50	0.55	38	D	26	#106
NB T	1633	0.77	41	D	207	#475
NB R	280	0.16	10	B	0	20
SB L	330	0.92	79	E	78	#200
SB TR	620	0.89	42	D	316	#740
Intersection		0.81	36	D		

PREFERENTIAL PHASING DIAGRAM

	Storage	V/C	DELAY	LOS	80th Q	95th Q
Harvard St & University Ave	673	0.17	20	B	4	20
EB LTR		0.14	13	B	8	22
WB LTR	220	0.01	19	B	0	4
NB LTR	177	0.41	4	A	0	203
SB LTR	692	0.51	9	A	33	#233
Intersection		0.46	7	A		



Not to Scale



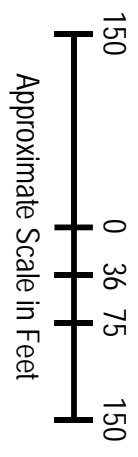
TETRA TECH



LEGEND

= 50th % Queue (in Feet)

= 95th % Queue (in Feet)



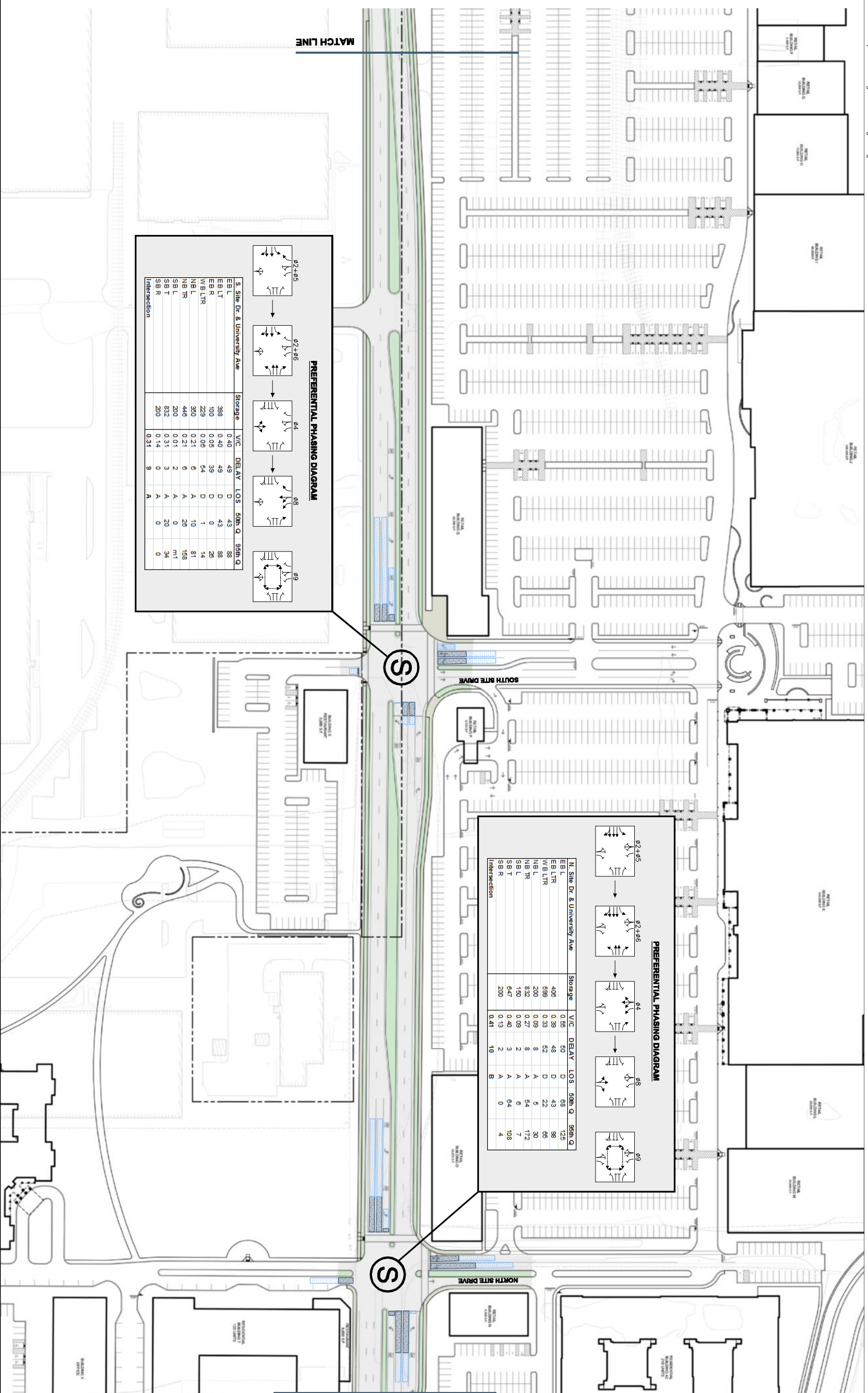
University Station
Westwood, Massachusetts

2017 Build

Morning Intersection

Queue Summary

Figure 41a



PREFERRED PHASING DIAGRAM

S. Site Dr. & University Ave		Storage	V.C.	DELAY	LOS	50th Q	90th Q
EBL	D	43	0.40	49	D	43	88
EBL	D	0	0.40	49	D	43	88
EBR	D	0	0.06	39	D	0	26
WBL	D	0	0.06	54	D	1	14
NBL	A	6	0.21	6	A	10	81
NBL	A	6	0.21	6	A	26	158
SBL	A	0	0.01	2	A	0	m1
SBT	A	3	0.31	3	A	20	34
SBR	A	0	0.14	0	A	0	0
Intersection			0.31	9	A	0	0

PREFERRED PHASING DIAGRAM

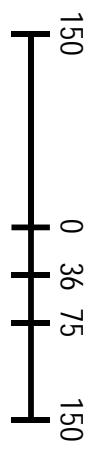
N. Site Dr. & University Ave		Storage	V.C.	DELAY	LOS	50th Q	90th Q
EBL	D	68	0.56	50	D	68	125
EBL	D	48	0.39	48	D	43	98
WBL	D	22	0.33	52	D	22	66
NBL	A	5	0.09	8	A	5	30
NBL	A	54	0.27	8	A	54	172
SBL	A	6	0.09	2	A	6	7
SBT	A	64	0.40	3	A	64	108
SBR	A	2	0.13	2	A	0	4
Intersection			0.41	10	B	0	4



Not to Scale

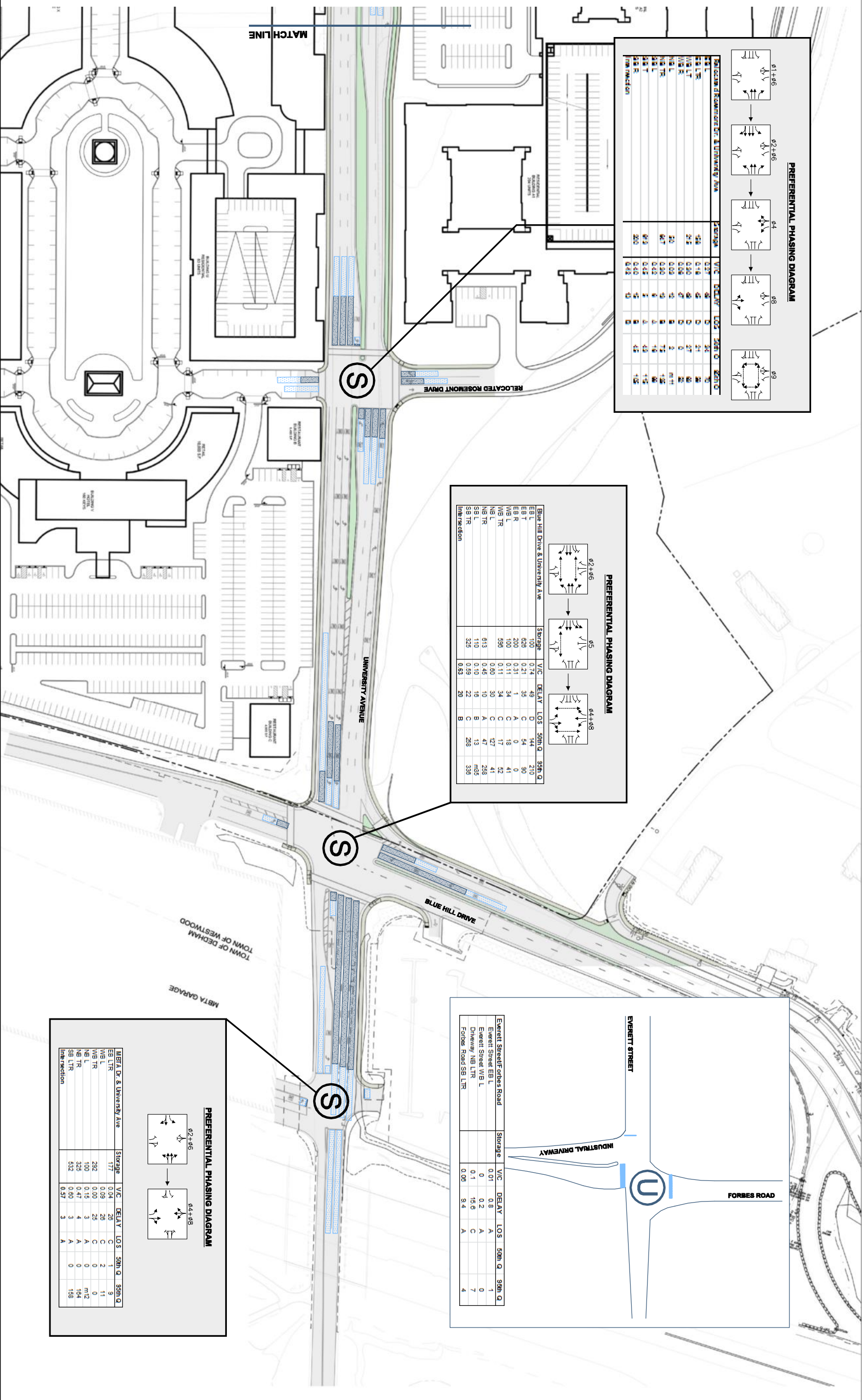


TETRA TECH



University Station
Westwood, Massachusetts
2017 Build
Morning Intersection
Queue Summary

Figure 41b



PREFERENTIAL PHASING DIAGRAM

MOVEMENT	PHASING	V/C	DELAY	LOS	50th Q	95th Q
EB L	0.1	0.1	A	0	0	0
EB TR	0.1	0.1	A	0	0	0
WB L	0.1	0.1	A	0	0	0
WB TR	0.1	0.1	A	0	0	0
SB L	0.1	0.1	A	0	0	0
SB TR	0.1	0.1	A	0	0	0
Intersection		0.1	A	0	0	0

PREFERENTIAL PHASING DIAGRAM

MOVEMENT	PHASING	V/C	DELAY	LOS	50th Q	95th Q
EB L	0.1	0.1	A	0	0	0
EB TR	0.1	0.1	A	0	0	0
WB L	0.1	0.1	A	0	0	0
WB TR	0.1	0.1	A	0	0	0
SB L	0.1	0.1	A	0	0	0
SB TR	0.1	0.1	A	0	0	0
Intersection		0.1	A	0	0	0

PREFERENTIAL PHASING DIAGRAM

MOVEMENT	PHASING	V/C	DELAY	LOS	50th Q	95th Q
EB L	0.1	0.1	A	0	0	0
EB TR	0.1	0.1	A	0	0	0
WB L	0.1	0.1	A	0	0	0
WB TR	0.1	0.1	A	0	0	0
SB L	0.1	0.1	A	0	0	0
SB TR	0.1	0.1	A	0	0	0
Intersection		0.1	A	0	0	0

PREFERENTIAL PHASING DIAGRAM

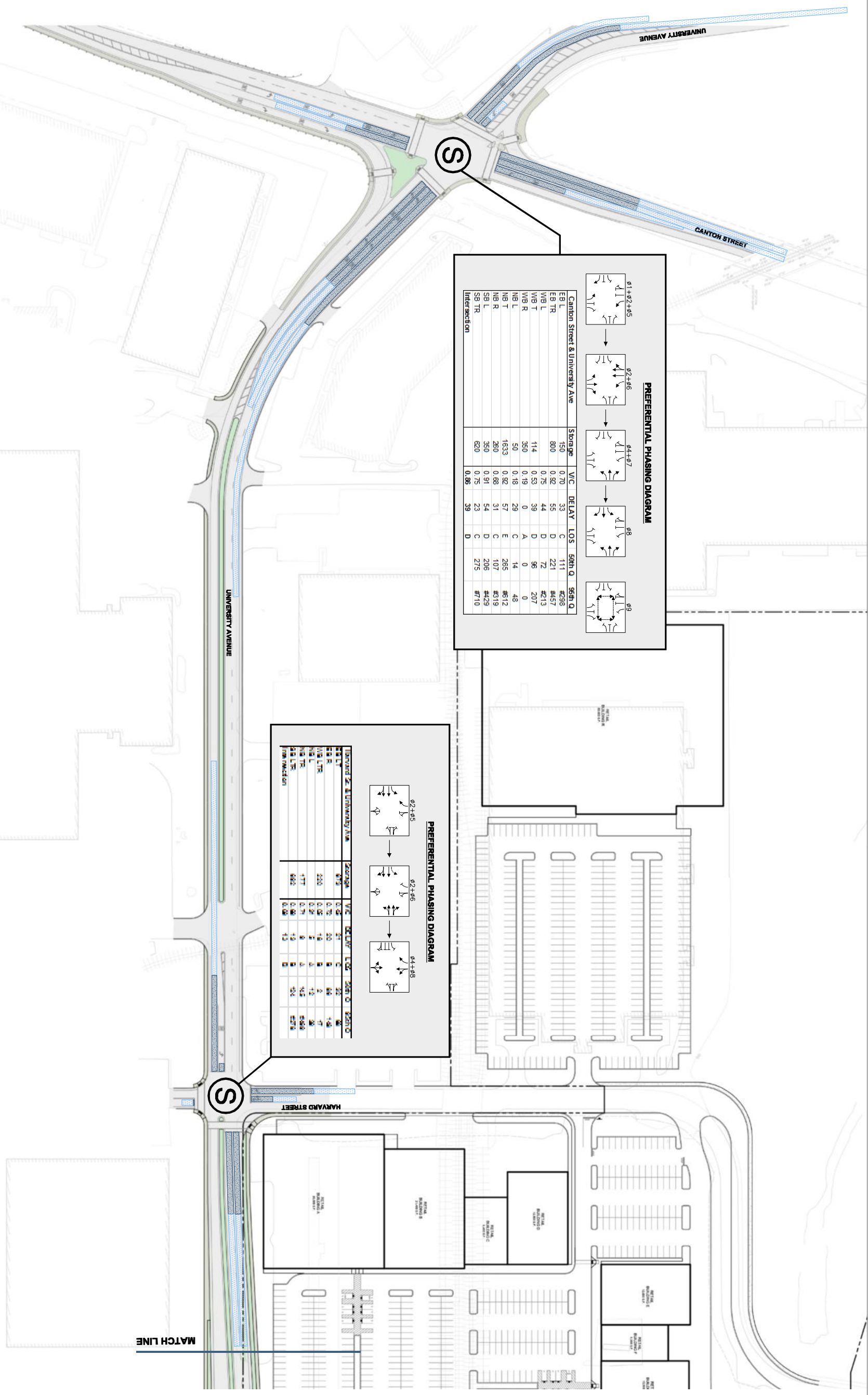
MOVEMENT	PHASING	V/C	DELAY	LOS	50th Q	95th Q
EB L	0.1	0.1	A	0	0	0
EB TR	0.1	0.1	A	0	0	0
WB L	0.1	0.1	A	0	0	0
WB TR	0.1	0.1	A	0	0	0
SB L	0.1	0.1	A	0	0	0
SB TR	0.1	0.1	A	0	0	0
Intersection		0.1	A	0	0	0



Not to Scale



University Station
 Westwood, Massachusetts
 2017 Build
 Morning Intersection
 Queue Summary
 Figure 41C



PREFERENTIAL PHASING DIAGRAM

	Storage	V/C	DELAY	LOS	50th Q	95th Q
Canton Street & University Ave	150	0.70	33	C	111	#298
EB L	800	0.92	55	D	221	#457
EB TR	114	0.75	44	D	72	#213
WB L	360	0.53	39	D	96	207
WB T	50	0.19	0	A	0	0
WB R	1633	0.18	29	C	14	48
NB L	260	0.92	57	E	265	#312
NB T	350	0.68	31	C	107	#319
NB R	620	0.91	54	D	206	#429
SB L		0.75	23	C	275	#710
SB TR		0.86	39	D		

PREFERENTIAL PHASING DIAGRAM

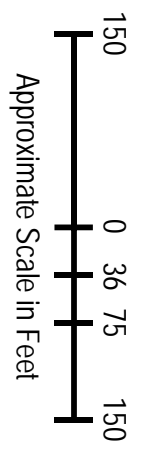
	Storage	V/C	DELAY	LOS	50th Q	95th Q
UNIVERSITY AVE	873	0.8	37	C	22	84
EB L	500	0.75	20	B	8	16
EB TR	500	0.65	18	B	7	14
WB L	177	0.27	8	A	4	8
WB T	602	0.77	8	A	4	8
WB R	602	0.68	15	B	6	12



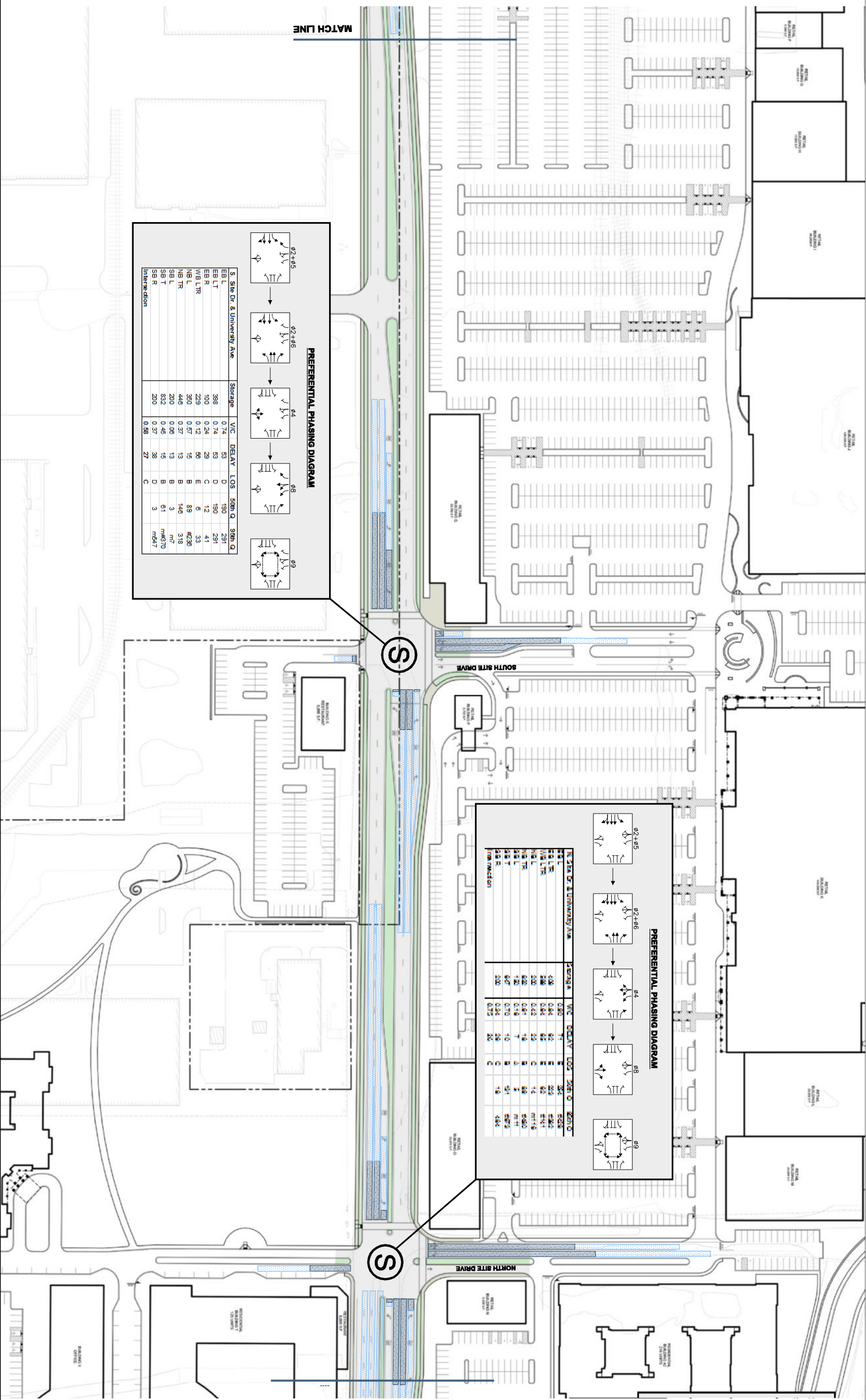
Not to Scale

LEGEND

	= 50th % Queue (in Feet)
	= 95th % Queue (in Feet)



University Station
 Westwood, Massachusetts
 2017 Build
 Afternoon Intersection
 Queue Summary
 Figure 42a



PREFERENTIAL PHASING DIAGRAM

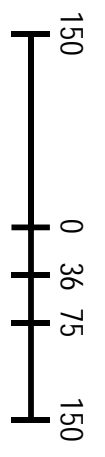
S. Site Dr. & University Ave	Storage	V/C	DELAY	LOS	500ft. Q.	95th Q.
EB L	388	0.74	53	D	190	291
EB R	100	0.24	29	C	12	41
WB L/TR	229	0.12	56	E	6	33
NB L	350	0.57	15	B	89	402/36
NB TR	446	0.37	13	B	146	318
SB L	200	0.06	13	B	3	07
SB T	832	0.46	15	B	61	m4370
SB R	200	0.37	38	D	3	m547
Intersection		0.58	27	C		

PREFERENTIAL PHASING DIAGRAM

S. Site Dr. & University Ave	Storage	V/C	DELAY	LOS	500ft. Q.	95th Q.
EB L	388	0.74	53	D	190	291
EB R	100	0.24	29	C	12	41
WB L/TR	229	0.12	56	E	6	33
NB L	350	0.57	15	B	89	402/36
NB TR	446	0.37	13	B	146	318
SB L	200	0.06	13	B	3	07
SB T	832	0.46	15	B	61	m4370
SB R	200	0.37	38	D	3	m547
Intersection		0.58	27	C		

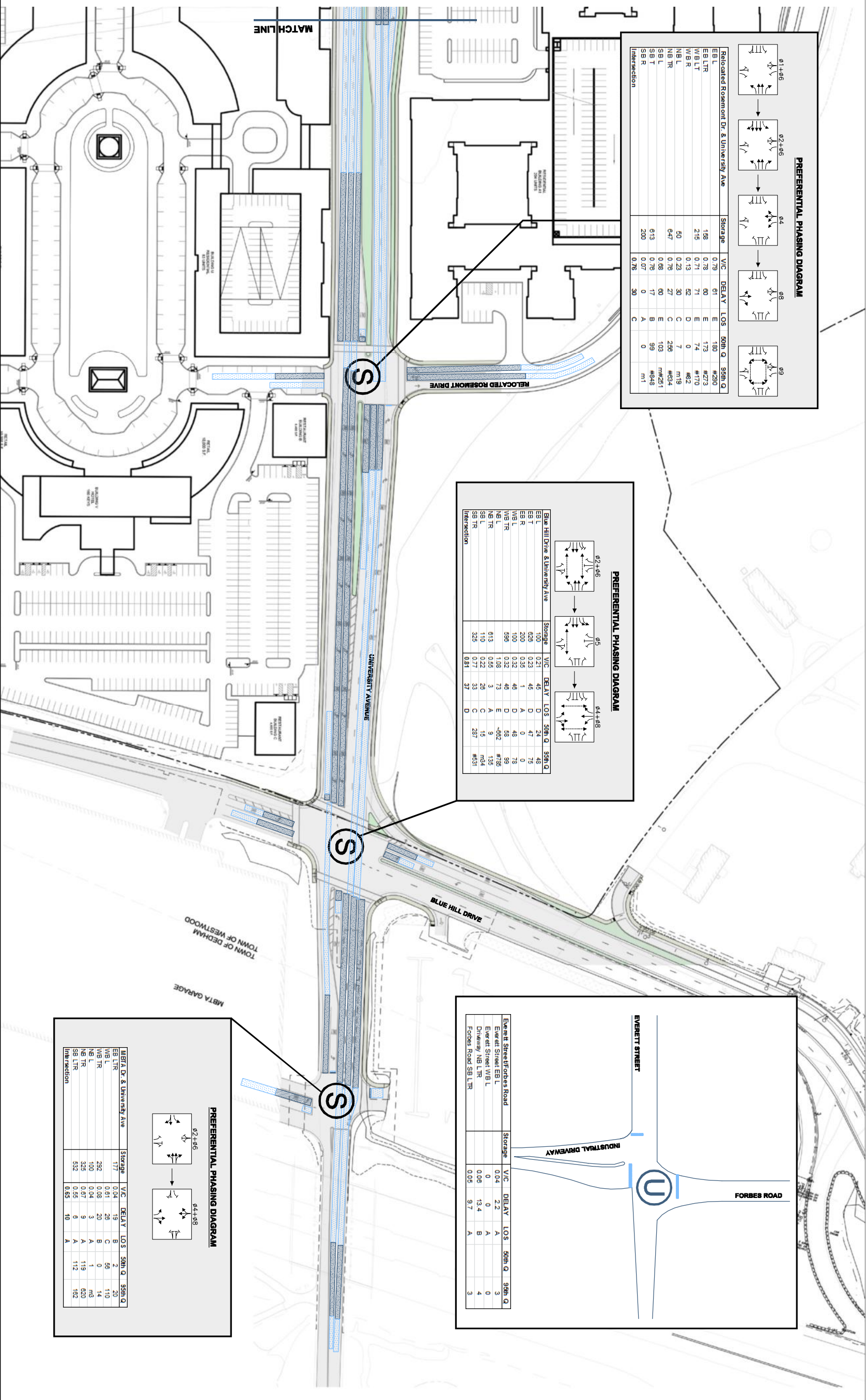


Not to Scale



University Station
Westwood, Massachusetts
2017 Build
Afternoon Intersection
Queue Summary

Figure 42b



PREFERENTIAL PHASING DIAGRAM

Relocated Rosemont Dr. & University Ave	Storage	V/C	DELAY	LOS	50th Q	95th Q
EB L	188	0.79	61	E	180	#250
EB LTR	215	0.78	80	E	173	#273
WB LTR	215	0.71	71	E	74	#170
WB R	50	0.13	52	D	0	#62
NB L	647	0.23	30	C	7	m19
NB TR	647	0.76	27	C	290	#834
SB L	613	0.68	60	E	103	m#251
SB TR	200	0.76	17	B	99	#648
SB R	200	0.07	0	A	0	m1
Intersection		0.75	30	C		

PREFERENTIAL PHASING DIAGRAM

Blue Hill Drive & University Ave	Storage	V/C	DELAY	LOS	50th Q	95th Q
EB L	100	0.21	45	D	24	48
EB T	628	0.23	45	D	47	75
EB R	200	0.35	1	A	0	0
WB L	100	0.32	46	D	48	78
WB TR	598	0.32	46	D	58	99
NB L	613	0.98	3	E	<502	#156
NB TR	110	0.23	23	C	15	m3
SB TR	325	0.77	33	C	287	#531
Intersection		0.81	37	D		

EVERETT STREET

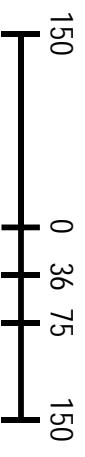
Everett Street/Forbes Road	Storage	V/C	DELAY	LOS	50th Q	95th Q
Everett Street EB L	0	0	0	A		3
Everett Street WB L	0	0.06	13.4	B		4
Forbes Road NB LTR	0.05	9.7		A		3

PREFERENTIAL PHASING DIAGRAM

MBTA Dr. & University Ave	Storage	V/C	DELAY	LOS	50th Q	95th Q
EB LTR	177	0.04	19	B	2	20
WB L	292	0.61	26	C	59	110
WB TR	300	0.08	20	B	0	14
NB L	323	0.04	3	A	1	m5
NB TR	523	0.92	9	A	115	620
SB LTR	532	0.92	9	A	112	182
Intersection		0.55	10	A		

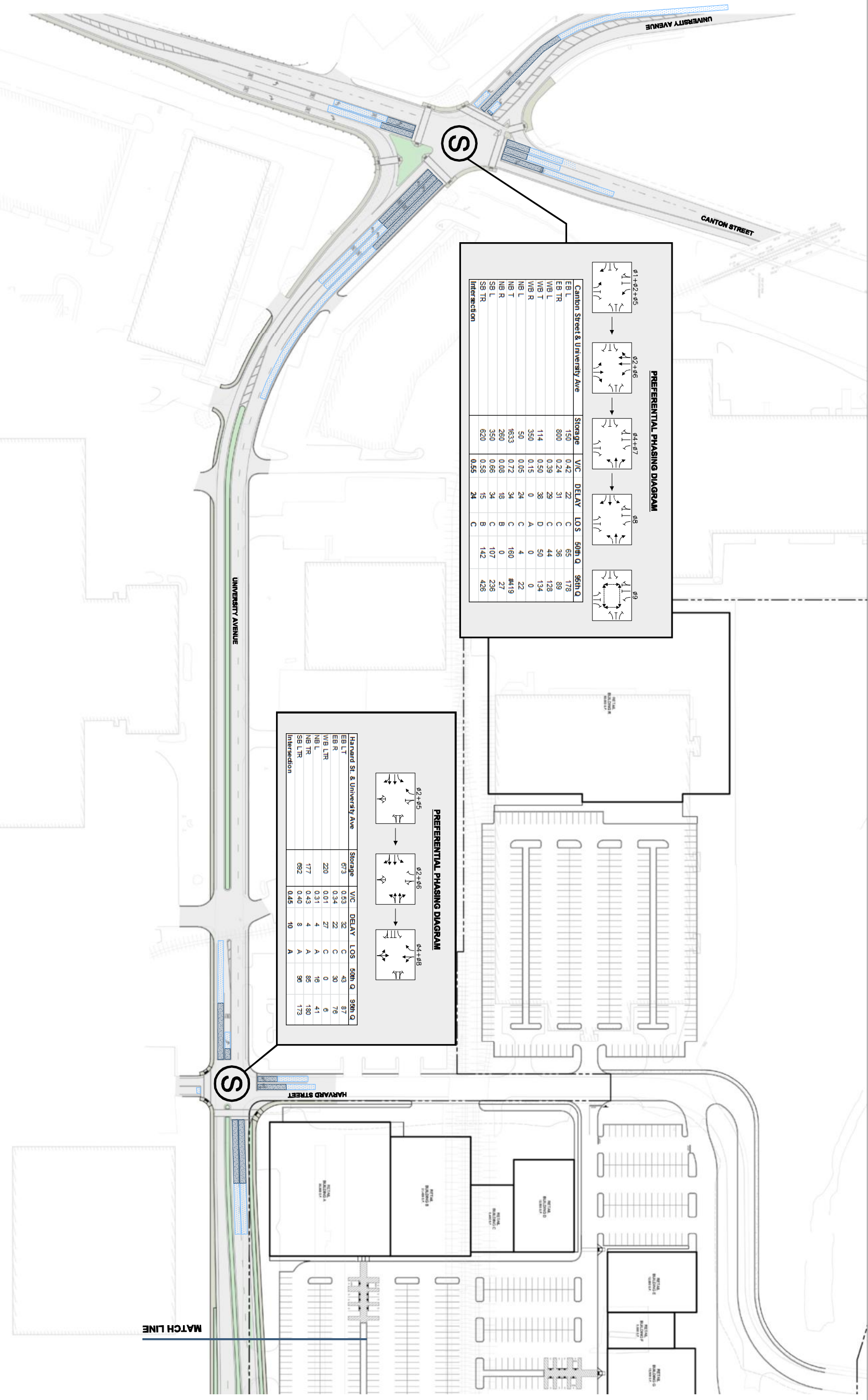


Not to Scale



Approximate Scale in Feet

University Station
 Westwood, Massachusetts
 2017 Build
 Afternoon Intersection
 Queue Summary
 Figure 42C



Not to Scale



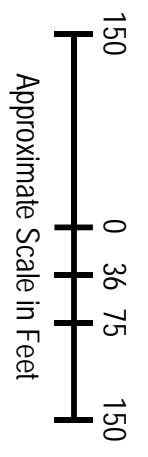
TETRA TECH



LEGEND

= 50th % Queue (in Feet)

= 95th % Queue (in Feet)



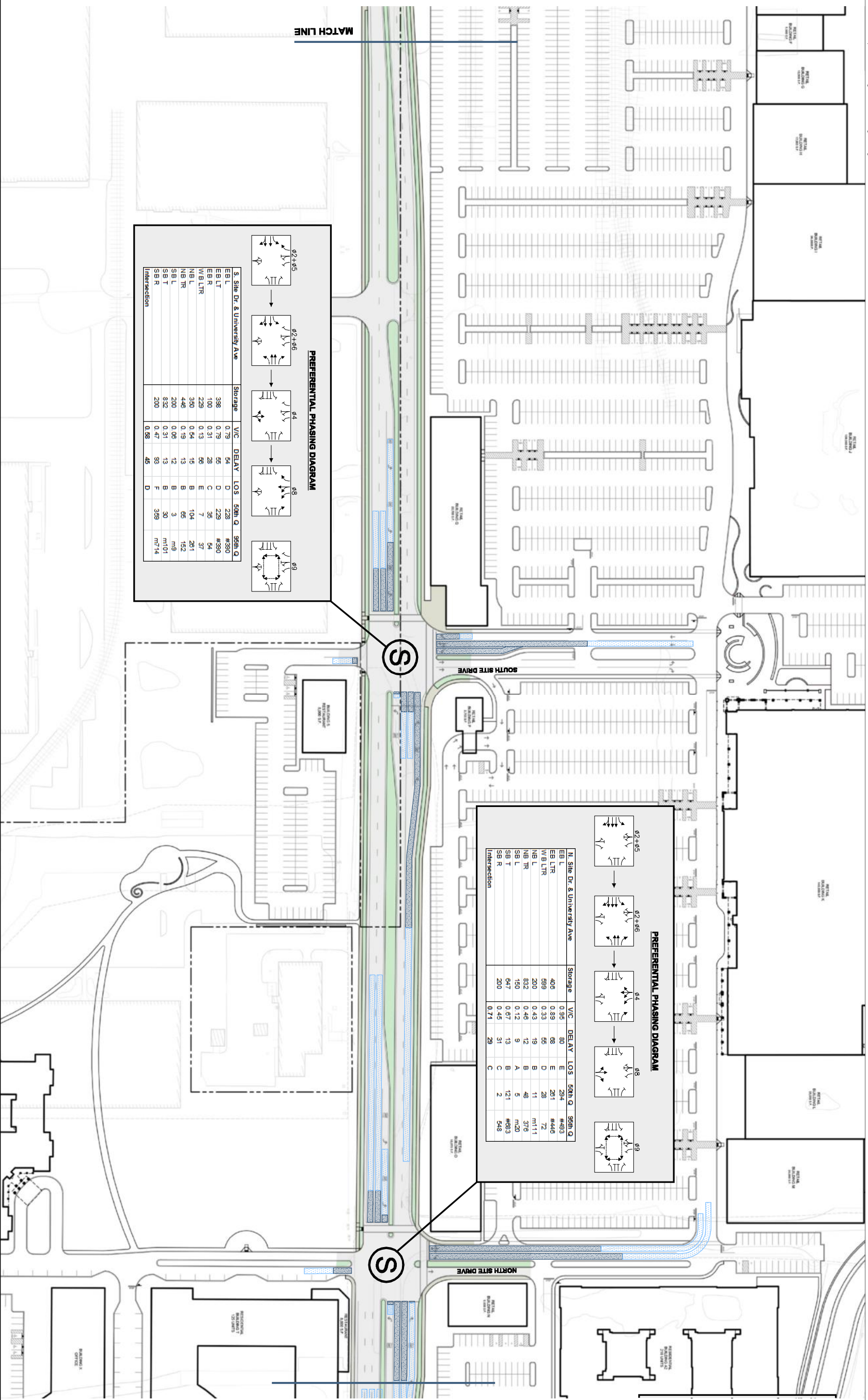
University Station
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2017 Build

Saturday Intersection

Queue Summary

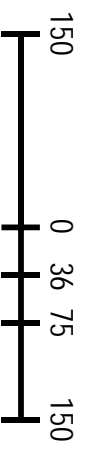
Figure 43a



Not to Scale

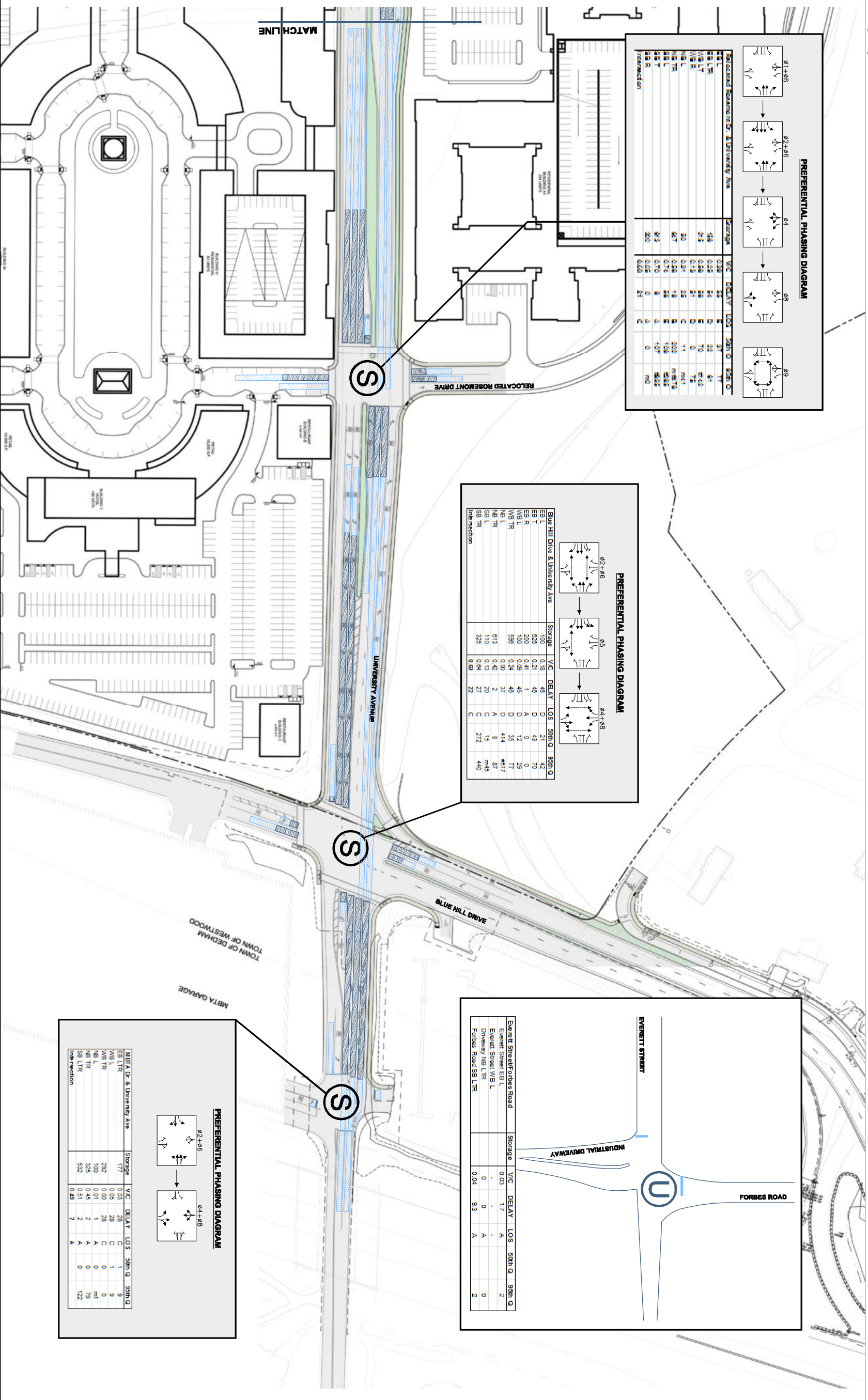


TETRA TECH



University Station
Westwood, Massachusetts
2017 Build
Saturday Intersection
Queue Summary

Figure 43b



PREFERENTIAL PHASING DIAGRAM

Direction	Storage	V/C	DELAY	LOS	50th Q	95th Q
EB LTR	238	0.28	2	D	37	71
EB TR	58	0.25	2	D	52	61
WB LTR	52	0.28	2	D	70	64
WB TR	52	0.15	2	D	0	72
SB LTR	60	0.24	2	D	11	62.4
SB TR	60	0.28	2	D	8	50.0
Intersection	602	0.14	2	A	15.8	58.2
Intersection	200	0.10	2	A	10.7	52.2
Intersection	200	0.02	2	A	0	0
Intersection	200	0.02	2	A	0	0

PREFERENTIAL PHASING DIAGRAM

Direction	Storage	V/C	DELAY	LOS	50th Q	95th Q
EB LTR	820	0.28	4	D	41	74
EB TR	200	0.04	1	A	0	71
WB LTR	100	0.05	4	D	12	29
WB TR	598	0.24	4	D	35	77
SB LTR	613	0.42	2	A	8	87
SB TR	110	0.13	20	C	15	m45
Intersection	325	0.04	27	C	272	440
Intersection		0.89	22	C		

PREFERENTIAL PHASING DIAGRAM

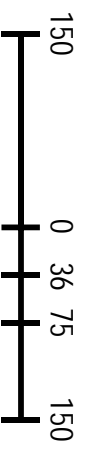
Direction	Storage	V/C	DELAY	LOS	50th Q	95th Q
Everett Street/Forbes Road	0.03	1.7	-	A	-	2
Everett Street EB LTR	0	0	0	A	0	0
Everett Street WB LTR	0	0	0	A	0	0
Forbes Road SB LTR	0.04	9.3	A	A		2

PREFERENTIAL PHASING DIAGRAM

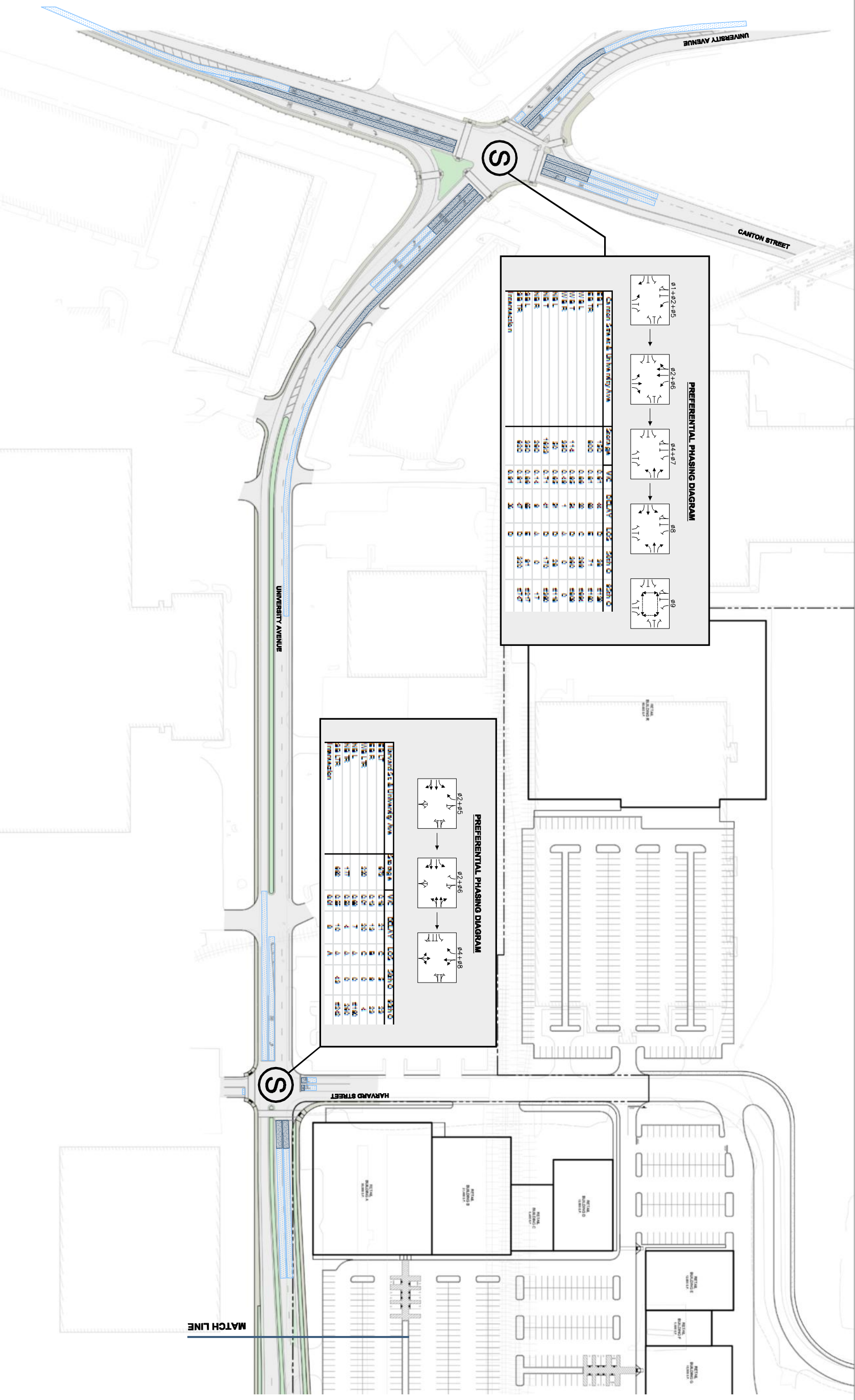
Direction	Storage	V/C	DELAY	LOS	50th Q	95th Q
MRL Dr. & University Ave	177	0.03	28	C	1	9
EB LTR	0.05	28	C	1	0	0
WB LTR	292	0.00	28	C	0	0
WB TR	100	0.01	1	A	0	79
SB LTR	325	0.45	2	A	0	0
SB TR	532	0.51	2	A	0	122
Intersection		0.49	2	A		



Not to Scale



University Station
Westwood, Massachusetts
2017 Build
Saturday Intersection
Queue Summary
Figure 43C



PREFERENTIAL PHASING DIAGRAM

PHASE	PERIOD	VC	DELAY	LOS	SEMI-C	SEMI-O
01	120	0.87	48	D	58	87.00
02	60	0.87	24	E	71	81.00
03	60	0.88	24	C	58	83.00
04	114	0.88	48	D	58	83.00
05	30	0.88	12	A	0	0
06	30	0.88	12	D	58	81.00
07	1455	0.71	41	D	170	83.00
08	580	0.74	38	A	0	17
09	580	0.88	38	E	5	81
10	580	0.87	38	D	5	81
11	60	0.87	36	D	200	87.00

PREFERENTIAL PHASING DIAGRAM

PHASE	PERIOD	VC	DELAY	LOS	SEMI-C	SEMI-O
01	60	0.76	31	E	3	32
02	60	0.76	31	C	3	32
03	300	0.76	155	E	0	148
04	177	0.80	7	A	0	340
05	60	0.80	30	D	0	340
06	60	0.80	30	A	0	340
07	60	0.80	30	D	0	340



Not to Scale



TETRA TECH



LEGEND

= 50th % Queue (in Feet)

= 95th % Queue (in Feet)

150 0 36 75 150



Approximate Scale in Feet

University Station
Westwood, Massachusetts

2022 Build

Morning Intersection

Queue Summary

Figure 44a