

APPENDIX F
TRANSIT AND PEDESTRIANS

Table F-1					
Pre-September 11 Conditions					
2001 Subway Pedestrian Analysis					
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
A and C Chambers Street Station					
N92 (South)	Turnstile	0.11	A	0.48	C
N92.X1	HXT	0.24	B	0.01	A
N92.X2	HXT	1.09	F	0.15	A
P8 A/B	Transfer Stairway (to 2/3)	0.57	B	0.77	C
P18A/B & P19A/B	Stairway to Platform	0.51	B	0.32	A
N92 (North)	Turnstile	0.32	B	0.55	C
N92.X3	HXT	0.36	B	0.03	A
N92.X4	HXT	0.69	D	0.08	A
P10 A/B	Stairway to Platform	0.10	A	0.65	B
P11	Stairway to Platform	0.67	B	1.43	E
P12	Stairway to Platform	0.02	A	0.36	A
P13	Stairway to Platform	0.40	A	0.17	A
N91	Turnstile	0.37	B	0.35	B
N91.X1	1 HEET plus 1 HXT	0.17	A	0.03	A
N91.X2	HEET	0.25	B	0.05	A
N92.X5	HXT	0.13	A	0.04	A
N92.X6	HXT	0.05	A	0.01	A
P14	Stairway to Platform	0.20	A	0.07	A
P15	Stairway to Platform	0.17	A	0.09	A
P16	Stairway to Platform	0.41	A	0.19	A
P17	Stairway to Platform	0.75	C	1.09	D
4 and 5 Fulton Street Station					
N95 (West)	Turnstile	0.15	A	0.40	C
R8 (West)	Ramp to 4/5 Northbound Platform	1.52	E	0.68	B

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R205 (South)	Turnstile	0.12	A	0.42	C
M2/O2	Stairway to Street	0.98	C	2.94	F
M4/O4/P4	Stairway to Street	0.18	A	0.77	C
R208 North	Turnstile	0.00	A	0.47	C
R208 North	HEET	0.00	A	0.53	C
R206 South	3 HXT and 2 HEET	0.30	B	0.58	C
ML7 A/B	Transfer Stairway (To A/C)	1.08	D	0.99	C
ML5	Stairway to Platform	2.24	F	1.54	E
ML6 A/B	Transfer Stairway (To A/C)	0.18	A	1.55	E
S6/M8	Stairway to Street	0.00	A	1.86	F
S5/M7	Stairway to Street	0.00	A	0.48	B
O6/O5	Stairway to Street	0.64	B	1.14	D
R206	9 Turnstiles + 1 HXT	0.37	B	0.13	A
S1/M1	Stairway to Street	1.02	D	0.31	A
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
4 and 5 Fulton Street Station					
S3/M3	Stairway to Street	1.60	E	0.94	C
O1/O2	Stairway to Street	0.65	B	0.00	A
Church Street Passageway					
N94	Turnstile		0.82	E	0.66
N94.X3	1 HXT plus 2 HEET (north)		0.60	C	0.62
N92	Turnstile (south)		0.11	A	0.48
N92.X1	HXT (South)		0.24	B	0.01
N92.X2	HXT (South)		1.09	F	0.15
N92	Turnstile (north)		0.32	B	0.55
N92.X3	HXT (North)		0.36	B	0.03
N92.X4	HXT (North)		0.69	D	0.08
N92.X5	HXT		0.13	A	0.04
N92.X6	HXT		0.05	A	0.01
N91	Turnstile		0.37	B	0.35
N91.X1	1 HEET plus 1 HXT		0.17	A	0.03
N91.X2	HEET		0.25	B	0.05
P2 A/B	Stairway to Street		0.77	C	1.08

Appendix F. Transit and Pedestrians

S3	Stairway to Street		1.08	D	1.45
S2	Stairway to Street		0.46	B	0.71
P4/S5	Stairway to Street		0.49	B	0.46
P5/S6	Stairway to Street		0.60	B	0.52
S7 ML1A/B	Stairway to Street		0.66	B	1.13
S8 M1A/B	Stairway to Street		0.83	C	0.79
S10/M3	Stairway to Street		0.71	C	0.94
S9/M2	Stairway to Street		0.71	C	0.98
S11 M4A/B	Stairway to Street		0.13	A	0.33
S12 M5A/B	Stairway to Street		0.57	B	0.17
S13 M6 A/B	Stairway to Street		0.04	A	0.06
S15 M8A/B	Stairway to Street		0.07	A	0.05
S17 M11A/B	Stairway to Street		0.17	A	0.14
S19 M13 A/B	Stairway to Street		0.88	C	0.67
S18/M12	Stairway to Street		0.24	A	0.25
S20 M14A/B	Stairway to Street		1.16	D	0.86
N and R Cortlandt Street Station					
A50	Turnstile		0.30	B	0.24
S6/P6	Stairway to Street		0.06	A	0.30
S8/P8	Stairway to Street		0.77	C	0.61
U2/U4	Transfer Stairway		0.54	B	0.50
U6/U8	Transfer Stairway		0.88	C	0.88
A52	Turnstile		0.32	B	0.33
P3 A/B	Stairway to Fare Array		0.83	C	0.83
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
N and R Cortlandt Street Station					
U9 A/B	Transfer Stairway	0.45	B	0.44	A
	Stairway to WTC	0.09	A	0.09	A
	Escalator to WTC (UP)	0.18	A	0.11	A
	Escalator to WTC (DN)	0.27	B	0.37	B

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A51	Turnstile	0.13	A	0.13	A
S4/P4	Stairway to Street	0.22	A	0.36	A
P2	Stairway to Street/1 Liberty Plaza	0.13	A	0.05	A
	Stairways to Street	0.77	C	0.56	B
	Stairway to Mezzanine	0.39	A	0.26	A
	Transfer Stairway	0.44	A	0.14	A
1 Liberty Plaza	High Revolving Exit and Entrance Gate	0.22	B	0.14	A
	4-Foot wide Transfer Escalator	0.18	A	0.27	B
A53	Turnstile	0.17	A	0.19	A
S1/S3, P1A/B	Stairway to Street	0.51	B	0.56	B
	Transfer Stairway	0.23	A	0.30	A
	Stairway to WTC	0.20	A	0.22	A
	4-Foot wide Transfer Escalator	0.40	C	0.11	A
1 and 9 Cortlandt Street Station					
R106	5 Turnstiles plus 2 HEET	0.26	B	0.23	B
P4/M2	Stairway to WTC Concourse	0.09	A	0.93	C
P5/M3	Stairway to WTC Concourse	0.87	C	0.12	A
R107	5 Turnstiles plus 1 HEET	0.15	A	0.44	C
P1A/B	Stairway to Street	0.42	A	1.23	D
R108	2 Turnstiles plus 2 HXT	0.68	D	0.10	A
P3A/B, M1A/B	Stairway to Street	1.46	E	0.21	A
R109	Turnstile (north)	0.09	A	0.07	A
P1	Stairway to Mezzanine	0.15	A	0.03	A
P2 A/B	Stairway to Mezzanine	0.02	A	0.09	A
S1 A/B	Stairway to Street	0.11	A	0.09	A
2 and 3 Park Place Station					
R115	3 Turnstiles, 1 HXT and 2 HEET	0.10	A	0.11	A
S1/M1	Stairway to Street	0.29	A	0.31	A
R115	3 Turnstiles, 1 HXT and 2 HEET	0.10	A	0.11	A
P1/P3/P5	Stairway to Platform	0.01	A	0.00	A
P2/P6/P4A/B	Stairway to Platform	0.01	A	0.01	A
E301	4-Foot Wide Escalator from Platform (UP)	0.23	B	0.05	A
E302	4-Foot Wide Escalator to Platform (DOWN)	0.02	A	0.23	B
P10/P12	Stairway to Platform	0.66	B	0.81	C

Appendix F. Transit and Pedestrians

P11/P13	Stairway to Platform	0.46	B	0.62	B
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
2 and 3 Park Place Station					
P9 A/B	Stairway to Mezzanine	0.76	C	1.02	D
E World Trade Center					
N94	Turnstile	0.82	E	0.66	D
N94.X3	1 HXT plus 2 HEET (north)	0.60	C	0.62	D
P9	Stairway to Platform	0.70	B	0.69	B
P8	Stairway to Platform	0.27	A	0.31	A
P7 A/B	Stairway to Platform	0.35	A	0.36	A
P10 A/B	Stairway to Platform	0.41	A	0.65	B
<p><i>Notes : v/c = volume/capacity ratio; LOS = Level of Service;</i></p> <p style="text-align: center;"><i>HEET = High Entrance/Exit Turnstile; HXT = High Revolving Exit Gate</i></p> <p><i>Source: Louis Berger Group, Inc. (2003)</i></p>					

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Table F-2					
Current Conditions Scenario					
2003 Subway Pedestrian Analysis					
Based upon Spring 2003 Survey					
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
A and C Chambers Street Station					
N92	Turnstile	0.06	A	0.27	B
N92.X1	HXT	0.13	A	0.01	A
N92.X2	HXT	0.61	D	0.09	A
P8 A/B	Transfer Stairway (to 2/3)	0.32	A	0.43	A
P18A/B & P19A/B	Stairway to Platform	0.29	A	0.18	A
N92	Turnstile	0.18	A	0.30	B
N92.X3	HXT	0.20	B	0.01	A
N92.X4	HXT	0.39	B	0.05	A
P10 A/B	Stairway to Platform	0.05	A	0.36	A
P11	Stairway to Platform	0.38	A	0.81	C
P12	Stairway to Platform	0.01	A	0.13	A
P13	Stairway to Platform	0.23	A	0.08	A
N91	Turnstile	0.36	B	0.34	B
N91.X1	1 HEET plus 1 HXT	0.17	A	0.03	A
N91.X2	HEET	0.24	B	0.05	A
N92.X5	HXT	0.12	A	0.04	A
N92.X6	HXT	0.04	A	0.01	A
P14	Stairway to Platform	0.20	A	0.07	A
P15	Stairway to Platform	0.16	A	0.08	A
P16	Stairway to Platform	0.39	A	0.19	A
P17	Stairway to Platform	0.72	C	1.06	D
4 and 5 Fulton Street Station					
N95 (West)	Turnstile	0.09	A	0.25	B
Ramp R8 (West)	To 4/5 Northbound Platform	1.48	E	0.69	B
R205 (South)	Turnstile	0.09	A	0.30	B
M2/O2	Stairway to Street	0.70	C	2.11	F

Appendix F. Transit and Pedestrians

M4/O4/P4	Stairway to Street	0.13	A	0.55	B
R208 North	Turnstile	0.00	A	0.05	A
R208 North	HEET	0.00	A	0.06	A
R206 South	3 HXT and 2 HEET	0.24	B	0.07	A
ML7 A/B	Transfer Stairway (To A/C)	0.97	C	0.89	C
ML5	Stairway to Platform	2.01	F	1.39	E
ML6 A/B	Transfer Stairway (To A/C)	0.16	A	1.39	E
S6/M8	Stairway to Street	0.00	A	0.25	A
O6/O5	Stairway to Street	0.53	B	0.14	A
R206	9 Turnstiles + 1 HXT	0.31	B	0.11	A
S1/M1	Stairway to Street	0.84	C	0.26	A
S3/M3	Stairway to Street	1.32	D	0.78	C
Element		AM Peak		PM Peak	
		v/c	LOS		v/c
4 and 5 Fulton Street Station					
O1/O2	Stairway to Street	0.54	B	0.00	A
Church Street Passageway					
N94.X1	HEET (west)	0.23	B	0.21	B
N94.X2	HEET (east)	0.68	D	0.79	D
N94.X3	1 HXT plus 2 HEET (north)	0.34	B	0.32	B
N92	Turnstile (south)	0.06	A	0.27	B
N92.X1	HXT (South)	0.13	A	0.01	A
N92.X2	HXT (South)	0.61	D	0.09	A
N92	Turnstile (north)	0.18	A	0.30	B
N92.X3	HXT (North)	0.20	B	0.01	A
N92.X4	HXT (North)	0.39	B	0.05	A
N92.X5	HXT	0.12	A	0.04	A
N92.X6	HXT	0.04	A	0.01	A
N91	Turnstile	0.36	B	0.34	B
N91.X1	1 HEET plus 1 HXT	0.17	A	0.03	A
N91.X2	HEET	0.24	B	0.05	A

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P2 A/B	Stairway to Street	0.43	A	0.65	B
S3	Stairway to Street	0.61	B	0.93	C
S2	Stairway to Street	0.26	A	0.38	A
P5/S6	Stairway to Street	0.34	A	0.27	A
S7 ML1A/B	Stairway to Street	0.48	B	0.64	B
S8 M1A/B	Stairway to Street	0.49	B	0.46	B
S10/M3	Stairway to Street	0.51	B	0.54	B
S9/M2	Stairway to Street	0.46	B	0.59	B
S11 M4A/B	Stairway to Street	0.07	A	0.21	A
S12 M5A/B	Stairway to Street	0.32	A	0.11	A
S13 M6 A/B	Stairway to Street	0.04	A	0.06	A
S15 M8A/B	Stairway to Street	0.07	A	0.05	A
S17 M11A/B	Stairway to Street	0.16	A	0.13	A
S19 M13 A/B	Stairway to Street	0.85	C	0.65	B
S18/M12	Stairway to Street	0.23	A	0.24	A
S20 M14A/B	Stairway to Street	1.13	D	0.83	C
N and R Cortlandt Street Station					
A50	Turnstile	0.07	A	0.06	A
S6/P6	Stairway to Street	0.04	A	0.10	A
S8/P8	Stairway to Street	0.30	A	0.19	A
U2/U4	Transfer Stairway	0.00	A	0.04	A
U6/U8	Transfer Stairway	0.00	A	0.06	A
A52	Turnstile	0.02	A	0.09	A
A52X1/A52X2	HEET	0.05	A	0.04	A
S5/S7	Stairway to Street	0.08	A	0.18	A
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
N and R Cortlandt Street Station					
S9/S11	Stairway to Street	0.13	A	0.35	A
P3 A/B	Stairway to Fare Array	0.09	A	0.24	A
U1/U3	Transfer Stairway	0.00	A	0.10	A
U9 A/B	Transfer Stairway	0.00	A	0.03	A
A51	Turnstile	0.12	A	0.12	A
S4/P4	Stairway to Street	0.41	A	0.41	A

Appendix F. Transit and Pedestrians

A53	Turnstile	0.11	A	0.14	A
S1/S3, P1A/B	Stairway to Street	0.31	A	0.42	A
2 and 3 Park Place Station					
R115	3 Turnstiles, 1 HXT and 2 HEET	0.13	A	0.14	A
S1/M1	Stairway to Street	0.62	B	0.67	B
P1/P3/P5	Stairway to Platform	0.02	A	0.01	A
P2/P6/P4A/B	Stairway to Platform	0.01	A	0.01	A
E301	4-Foot Wide Escalator from Platform (UP)	0.29	B	0.06	A
E302	4-Foot Wide Escalator to Platform (DOWN)	0.03	A	0.29	B
P10/P12	Stairway to Platform	0.37	A	0.46	B
P11/P13	Stairway to Platform	0.26	A	0.35	A
P9 A/B	Stairway to Mezzanine	0.42	A	0.57	B
E World Trade Center					
N94.X1	HEET (west)	0.23	B	0.21	B
N94.X2	HEET (east)	0.68	D	0.79	D
N94.X3	1 HXT plus 2 HEET (north)	0.34	B	0.32	B
P9	Stairway to Platform	0.39	A	0.32	A
P8	Stairway to Platform	0.15	A	0.16	A
P7 A/B	Stairway to Platform	0.20	A	0.19	A
P10 A/B	Stairway to Platform	0.23	A	0.36	A
<p><i>Notes : v/c = volume/capacity ratio; LOS = Level of Service;</i></p> <p style="text-align: center;"><i>HEET = High Entrance/Exit Turnstile; HXT = High Revolving Exit Gate</i></p> <p><i>Source: Louis Berger Group, Inc. (2003)</i></p>					

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Table F-3					
Future without the Proposed Action - Pre-September 11 Scenario					
2009 Subway Pedestrian Analysis					
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
A and C Chambers Street Station					
N92 (South)	Turnstile	0.11	A	0.50	C
N92.X1	HXT	0.25	B	0.01	A
N92.X2	HXT	1.14	F	0.16	A
P8 A/B	Transfer Stairway (to 2/3)	0.60	B	0.80	C
P18A/B & P19A/B	Stairway to Platform	0.53	B	0.34	A
N92 (North)	Turnstile	0.33	B	0.58	C
N92.X3	HXT	0.38	B	0.03	A
N92.X4	HXT	0.71	D	0.09	A
P10 A/B	Stairway to Platform	0.42	A	0.67	B
P11	Stairway to Platform	0.81	C	2.45	F
P12	Stairway to Platform	0.04	A	0.61	B
P13	Stairway to Platform	0.48	B	0.40	A
N91	Turnstile	0.39	B	0.37	B
N91.X1	1 HEET plus 1 HXT	0.18	A	0.03	A
N91.X2	HEET	0.26	B	0.05	A
N92.X5	HXT	0.13	A	0.04	A
N92.X6	HXT	0.05	A	0.01	A
P14	Stairway to Platform	0.21	A	0.08	A
P15	Stairway to Platform	0.18	A	0.09	A
P16	Stairway to Platform	0.42	A	0.20	A
P17	Stairway to Platform	0.78	C	1.13	D
4 and 5 Fulton Street Station					
N95 (West)	Turnstile	0.10	A	0.27	B
R8 (West)	Ramp to 4/5 Northbound Platform	1.58	E	0.73	C
R205 (South)	Turnstile	0.09	A	0.32	B
M2/O2	Stairway to Street	0.75	C	2.25	F
M4/O4/P4	Stairway to Street	0.13	A	0.59	B

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R208 North	Turnstile	0.00	A	0.00	A
R208 North	HEET	0.00	A	0.23	B
R206 South	3 HXT and 2 HEET	0.26	B	0.07	A
ML7 A/B	Transfer Stairway (To A/C)	1.02	D	0.93	C
ML5	Stairway to Platform	2.11	F	1.46	E
ML6 A/B	Transfer Stairway (To A/C)	0.17	A	1.46	E
S6/M8	Stairway to Street	0.00	A	0.21	A
S5/M7	Stairway to Street	0.00	A	0.05	A
O6/O5	Stairway to Street	0.56	B	0.15	A
R206	9 Turnstiles + 1 HXT	0.33	B	0.11	A
S1/M1	Stairway to Street	0.90	C	0.28	A
Element		AM Peak		PM Peak	
		v/c	LOS		v/c
4 and 5 Fulton Street Station					
S3/M3	Stairway to Street	1.41	E	0.83	C
O1/O2	Stairway to Street	0.57	B	0.00	A
Church Street Passageway					
N94	Turnstile	0.85	E	0.69	D
N94.X3	1 HXT plus 2 HEET (north)	0.62	D	0.64	D
N92	Turnstile (south)	0.11	A	0.50	C
N92.X1	HXT (South)	0.25	B	0.01	A
N92.X2	HXT (South)	1.14	F	0.16	A
N92	Turnstile (North)	0.33	B	0.58	C
N92.X3	HXT (North)	0.38	B	0.03	A
N92.X4	HXT (North)	0.71	D	0.09	A
N92.X5	HXT	0.13	A	0.04	A
N92.X6	HXT	0.05	A	0.01	A
N91	Turnstile	0.39	B	0.37	B
N91.X1	1 HEET plus 1 HXT	0.18	A	0.03	A
N91.X2	HEET	0.26	B	0.05	A
P2 A/B	Stairway to Street	0.80	C	1.12	D

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S3	Stairway to Street	1.13	D	1.51	E
S2	Stairway to Street	0.48	B	0.74	C
P4/S5	Stairway to Street	0.51	B	0.48	B
P5/S6	Stairway to Street	0.63	B	0.54	B
S7 ML1A/B	Stairway to Street	0.69	B	1.18	D
S8 M1A/B	Stairway to Street	0.86	C	0.82	C
S10/M3	Stairway to Street	0.73	C	0.97	C
S9/M2	Stairway to Street	0.74	C	1.02	D
S11 M4A/B	Stairway to Street	0.13	A	0.34	A
S12 M5A/B	Stairway to Street	0.59	B	0.18	A
S13 M6 A/B	Stairway to Street	0.04	A	0.06	A
S15 M8A/B	Stairway to Street	0.07	A	0.05	A
S17 M11A/B	Stairway to Street	0.18	A	0.14	A
S19 M13 A/B	Stairway to Street	0.91	C	0.70	B
S18/M12	Stairway to Street	0.25	A	0.26	A
S20 M14A/B	Stairway to Street	1.21	D	0.90	C
N and R Cortlandt Street Station					
A50	Turnstile	0.31	B	0.25	B
S6/P6	Stairway to Street	0.06	A	0.31	A
S8/P8	Stairway to Street	0.80	C	0.63	B
U2/U4	Transfer Stairway	0.56	B	0.52	B
U6/U8	Transfer Stairway	0.92	C	0.91	C
A52	Turnstile	0.34	B	0.34	B
P3 A/B	Stairway to Fare Array	0.86	C	0.87	C
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
N and R Cortlandt Street Station					
U9 A/B	Transfer Stairway	0.47	B	0.45	B
	Stairway to WTC	0.09	A	0.09	A
	Escalator to WTC (up)	0.18	A	0.12	A
	Escalator to WTC (down)	0.28	B	0.39	B
A51	Turnstile	0.14	A	0.13	A
S4/P4	Stairway to Street	0.23	A	0.37	A
P2	Stairway to Street/1 Liberty Plaza	0.13	A	0.05	A

Appendix F. Transit and Pedestrians

	Stairways to Street	0.80	C	0.58	B
	Stairway to Mezzanine	0.41	A	0.27	A
	Transfer Stairway	0.46	B	0.15	A
1 Liberty Plaza	High Revolving Exit and Entrance Gate	0.23	B	0.14	A
	4-Foot wide Transfer Escalator	0.19	A	0.28	B
A53	Turnstile	0.18	A	0.20	A
S1/S3, P1A/B	Stairway to Street	0.54	B	0.59	B
	Transfer Stairway	0.24	A	0.31	A
	Stairway to WTC	0.21	A	0.22	A
	4-Foot wide Transfer Escalator	0.42	C	0.11	A
1 and 9 Cortlandt Street Station					
R106	5 Turnstiles plus 2 HEET	0.28	B	0.24	B
P4/M2	Stairway to WTC Concourse	0.10	A	0.96	C
P5/M3	Stairway to WTC Concourse	0.91	C	0.13	A
R107	5 Turnstiles plus 1 HEET	0.15	A	0.46	C
P1A/B	Stairway to Street	0.43	A	1.28	D
R108	2 Turnstiles plus 2 HXT	0.70	D	0.10	A
P3A/B, M1A/B	Stairway to Street	1.52	E	0.21	A
R109	Turnstile (north)	0.09	A	0.07	A
P1	Stairway to Mezzanine	0.16	A	0.03	A
P2 A/B	Stairway to Mezzanine	0.02	A	0.09	A
S1 A/B	Stairway to Street	0.12	A	0.09	A
2 and 3 Park Place Station					
R115	3 Turnstiles, 1 HXT and 2 HEET	0.11	A	0.12	A
S1/M1	Stairway to Street	0.30	A	0.33	A
R115	3 Turnstiles, 1 HXT and 2 HEET	0.11	A	0.12	A
P1/P3/P5	Stairway to Platform	0.01	A	0.01	A
P2/P6/P4A/B	Stairway to Platform	0.01	A	0.01	A
E301	4-Foot Wide Escalator from Platform (up)	0.24	B	0.05	A
E302	4-Foot Wide Escalator to Platform (down)	0.02	A	0.24	B
P10/P12	Stairway to Platform	0.68	B	0.84	C

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P11/P13	Stairway to Platform	0.47	B	0.64	B
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
2 and 3 Park Place Station					
P9 A/B	Stairway to Mezzanine	0.79	C	1.06	D
E World Trade Center					
N94	Turnstile	0.85	E	0.69	D
N94.X3	1 HXT plus 2 HEET (north)	0.62	D	0.64	D
P9	Stairway to Platform	0.73	C	0.72	C
P8	Stairway to Platform	0.28	A	0.32	A
P7 A/B	Stairway to Platform	0.37	A	0.38	A
P10 A/B	Stairway to Platform	0.42	A	0.67	B
<p><i>Notes : v/c = volume/capacity ratio; LOS = Level of Service;</i></p> <p align="center"><i>HEET = High Entrance/Exit Turnstile; HXT = High Revolving Exit Gate</i></p> <p><i>Source: Louis Berger Group, Inc. (2003)</i></p>					

Table F-4					
Future without the Proposed Action Pre-September 11 Scenario					
2015 Subway Pedestrian Analysis					
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
A and C Chambers Street Station					
N92 (South)	Turnstile	0.12	A	0.51	C
N92.X1	HXT	0.25	B	0.01	A
N92.X2	HXT	1.17	F	0.16	A
P8 A/B	Transfer Stairway (to 2/3)	0.61	B	0.82	C
P18A/B & P19A/B	Stairway to Platform	0.55	B	0.35	A
N92 (North)	Turnstile	0.34	B	0.59	C
N92.X3	HXT	0.39	B	0.03	A
N92.X4	HXT	0.73	D	0.09	A
P10 A/B	Stairway to Platform	0.10	A	0.69	B
P11	Stairway to Platform	0.83	C	2.52	F
P12	Stairway to Platform	0.04	A	0.63	B
P13	Stairway to Platform	0.50	B	0.42	A
N91	Turnstile	0.40	B	0.38	B
N91.X1	1 HEET plus 1 HXT	0.19	A	0.03	A
N91.X2	HEET	0.27	B	0.05	A
N92.X5	HXT	0.14	A	0.05	A
N92.X6	HXT	0.05	A	0.01	A
P14	Stairway to Platform	0.22	A	0.08	A
P15	Stairway to Platform	0.18	A	0.09	A
P16	Stairway to Platform	0.44	A	0.20	A
P17	Stairway to Platform	0.80	C	1.17	D
4 and 5 Fulton Street Station					
N95 (West)	Turnstile	0.11	A	0.29	B
R8 (West)	Ramp to 4/5 Northbound Platform	1.71	F	0.79	C

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R205 (South)	Turnstile	0.13	A	0.47	C
M2/O2	Stairway to Street	1.08	D	3.24	F
M4/O4/P4	Stairway to Street	0.19	A	0.85	C
R208 North	Turnstile	0.00	A	0.00	A
R208 North	HEET	0.00	A	2.36	F
R206 South	3 HXT and 2 HEET	0.33	B	0.64	D
ML7 A/B	Transfer Stairway (To A/C)	0.93	C	0.85	C
ML5	Stairway to Platform	1.92	F	1.32	D
ML6 A/B	Transfer Stairway (To A/C)	0.15	A	1.33	D
S6/M8	Stairway to Street	0.00	A	2.69	F
S5/M7	Stairway to Street	0.00	A	0.55	B
O6/O5	Stairway to Street	0.70	C	1.26	D
R206	9 Turnstiles + 1 HXT	0.41	C	0.14	A
S1/M1	Stairway to Street	1.12	D	0.35	A
Element		AM Peak		PM Peak	
		v/c	LOS		v/c
4 and 5 Fulton Street Station					
S3/M3	Stairway to Street	1.76	F	1.04	D
O1/O2	Stairway to Street	0.71	C	0.00	A
Church Street Passageway					
N94	Turnstile	0.87	E	0.71	D
N94.X3	1 HXT plus 2 HEET (north)	0.64	D	0.66	D
N92	Turnstile (south)	0.12	A	0.51	C
N92.X1	HXT (South)	0.25	B	0.01	A
N92.X2	HXT (South)	1.17	F	0.16	A
N92	Turnstile (north)	0.34	B	0.59	C
N92.X3	HXT (North)	0.39	B	0.03	A
N92.X4	HXT (North)	0.73	D	0.09	A
N92.X5	HXT	0.14	A	0.05	A
N92.X6	HXT	0.05	A	0.01	A
N91	Turnstile	0.40	B	0.38	B
N91.X1	1 HEET plus 1 HXT	0.19	A	0.03	A
N91.X2	HEET	0.27	B	0.05	A
P2 A/B	Stairway to Street	0.82	C	1.15	D

Appendix F. Transit and Pedestrians

S3	Stairway to Street	1.16	D	1.56	E
S2	Stairway to Street	0.50	B	0.76	C
P4/S5	Stairway to Street	0.52	B	0.49	B
P5/S6	Stairway to Street	0.64	B	0.56	B
S7 ML1A/B	Stairway to Street	0.71	C	1.21	D
S8 M1A/B	Stairway to Street	0.89	C	0.85	C
S10/M3	Stairway to Street	0.76	C	1.00	D
S9/M2	Stairway to Street	0.76	C	1.05	D
S11 M4A/B	Stairway to Street	0.14	A	0.35	A
S12 M5A/B	Stairway to Street	0.61	B	0.18	A
S13 M6 A/B	Stairway to Street	0.05	A	0.06	A
S15 M8A/B	Stairway to Street	0.07	A	0.05	A
S17 M11A/B	Stairway to Street	0.18	A	0.14	A
S19 M13 A/B	Stairway to Street	0.94	C	0.72	C
S18/M12	Stairway to Street	0.26	A	0.26	A
S20 M14A/B	Stairway to Street	1.24	D	0.92	C
N and R Cortlandt Street Station					
A50	Turnstile	0.32	B	0.26	B
S6/P6	Stairway to Street	0.07	A	0.32	A
S8/P8	Stairway to Street	0.82	C	0.65	B
U2/U4	Transfer Stairway	0.58	B	0.53	B
U6/U8	Transfer Stairway	0.94	C	0.94	C
A52	Turnstile	0.35	B	0.35	B
P3 A/B	Stairway to Fare Array	0.88	C	0.89	C
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
N and R Cortlandt Street Station					
U9 A/B	Transfer Stairway	0.48	B	0.47	B
	Stairway to WTC	0.10	A	0.09	A
	Escalator to WTC (up)	0.19	A	0.12	A
	Escalator to WTC (down)	0.29	B	0.40	C

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A51	Turnstile	0.14	A	0.14	A
S4/P4	Stairway to Street	0.23	A	0.38	A
P2	Stairway to Street/1 Liberty Plaza	0.14	A	0.05	A
	Stairways to Street ⁽²⁾	0.83	C	0.60	B
	Stairway to Mezzanine	0.42	A	0.27	A
	Transfer Stairway	0.47	B	0.15	A
1 Liberty Plaza	High Revolving Exit and Entrance Gate	0.24	B	0.14	A
	4-Foot wide Transfer Escalator	0.19	A	0.29	B
A53	Turnstile	0.19	A	0.20	B
S1/S3, P1A/B	Stairway to Street	0.55	B	0.60	B
	Transfer Stairway	0.25	A	0.32	A
	Stairway to WTC	0.21	A	0.23	A
	4-Foot wide Transfer Escalator	0.43	C	0.11	A
1 and 9 Cortlandt Street Station					
R106	5 Turnstiles plus 2 HEET	0.28	B	0.25	B
P4/M2	Stairway to WTC Concourse	0.10	A	0.99	C
P5/M3	Stairway to WTC Concourse	0.93	C	0.13	A
R107	5 Turnstiles plus 1 HEET	0.16	A	0.47	C
P1A/B	Stairway to Street	0.45	A	1.31	D
R108	2 Turnstiles plus 2 HXT	0.72	D	0.10	A
P3A/B, M1A/B	Stairway to Street	1.56	E	0.22	A
R109	Turnstile (north)	0.09	A	0.07	A
P1	Stairway to Mezzanine	0.16	A	0.03	A
P2 A/B	Stairway to Mezzanine	0.02	A	0.10	A
S1 A/B	Stairway to Street	0.12	A	0.09	A
2 and 3 Park Place Station					
R115	3 Turnstiles, 1 HXT and 2 HEET	0.11	A	0.12	A
S1/M1	Stairway to Street	0.31	A	0.34	A
R115	3 Turnstiles, 1 HXT and 2 HEET	0.11	A	0.12	A
P1/P3/P5	Stairway to Platform	0.01	A	0.01	A
P2/P6/P4A/B	Stairway to Platform	0.01	A	0.01	A
E301	4-Foot Wide Escalator from Platform (up)	0.25	B	0.05	A
E302	4-Foot Wide Escalator to Platform (down)	0.02	A	0.25	B
P10/P12	Stairway to Platform	0.70	C	0.87	C

Appendix F. Transit and Pedestrians

P11/P13	Stairway to Platform	0.49	B	0.66	B
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
2 and 3 Park Place Station					
P9 A/B	Stairway to Mezzanine	0.81	C	1.09	D
E World Trade Center					
N94.X3	1 HXT plus 2 HEET (north)	0.64	D	0.66	D
P9	Stairway to Platform	0.75	C	0.74	C
P8	Stairway to Platform	0.29	A	0.33	A
P7 A/B	Stairway to Platform	0.38	A	0.39	A
P10 A/B	Stairway to Platform	0.44	A	0.69	B
N94.X3	1 HXT plus 2 HEET (north)	0.64	D	0.66	D
<p><i>Notes : v/c = volume/capacity ratio; LOS = Level of Service;</i></p> <p align="center"><i>HEET = High Entrance/Exit Turnstile; HXT = High Revolving Exit Gate</i></p> <p><i>Source: Louis Berger Group, Inc. (2003)</i></p>					

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Table F-5					
Future without the Proposed Action - Current Conditions Scenario					
2009 Subway Pedestrian Analysis					
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
A and C Chambers Street Station					
N92	Turnstile (south)	0.11	A	0.32	B
N92.X1	HXT	0.16	A	0.01	A
N92.X2	HXT	0.85	E	0.15	A
P8 A/B	Transfer Stairway (to 2/3)	0.37	A	0.49	B
P18A/B & P19A/B	Stairway to Platform	0.45	A	0.24	A
N92	Turnstile (north)	0.29	B	0.41	C
N92.X3	HXT	0.23	B	0.02	A
N92.X4	HXT	0.43	C	0.07	A
P10 A/B	Stairway to Platform	0.06	A	0.40	A
P11	Stairway to Platform	0.58	B	1.67	F
P12	Stairway to Platform	0.03	A	0.42	A
P13	Stairway to Platform	0.35	A	0.28	A
N91	Turnstile	0.40	B	0.38	B
N91.X1	1 HEET plus 1 HXT	0.19	A	0.03	A
N91.X2	HEET	0.27	B	0.05	A
N92.X5	HXT	0.14	A	0.05	A
N92.X6	HXT	0.05	A	0.01	A
P14	Stairway to Platform	0.22	A	0.08	A
P15	Stairway to Platform	0.18	A	0.09	A
P16	Stairway to Platform	0.44	A	0.20	A
P17	Stairway to Platform	0.80	C	1.16	D
Church Street Passageway					
N94	Turnstile	0.46	C	0.38	B
N94.X3	1 HXT plus 2 HEET (north)	0.37	B	0.35	B
N92	Turnstile (south)	0.11	A	0.32	B
N92.X1	HXT (South)	0.16	A	0.01	A
N92.X2	HXT (South)	0.85	E	0.15	A

Appendix F. Transit and Pedestrians

N92	Turnstile (north)	0.29	B	0.41	C
N92.X3	HXT (North)	0.23	B	0.02	A
N92.X4	HXT (North)	0.43	C	0.07	A
N92.X5	HXT	0.14	A	0.05	A
N92.X6	HXT	0.05	A	0.01	A
N91	Turnstile	0.40	B	0.38	B
N91.X1	1 HEET plus 1 HXT	0.19	A	0.03	A
N91.X2	HEET	0.27	B	0.05	A
P2 A/B	Stairway to Street	0.61	B	0.91	C
S3	Stairway to Street	0.89	C	1.27	D
S2	Stairway to Street	0.34	A	0.55	B
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
Church Street Passageway					
P4/S5	Stairway to Street	0.50	B	0.58	B
P5/S6	Stairway to Street	0.60	B	0.63	B
S7 ML1A/B	Stairway to Street	0.60	B	0.92	C
S8 M1A/B	Stairway to Street	0.73	C	0.71	C
S10/M3	Stairway to Street	0.65	B	0.81	C
S9/M2	Stairway to Street	0.59	B	0.93	C
S11 M4A/B	Stairway to Street	0.12	A	0.29	A
S12 M5A/B	Stairway to Street	0.40	A	0.17	A
S13 M6 A/B	Stairway to Street	0.05	A	0.06	A
S15 M8A/B	Stairway to Street	0.07	A	0.05	A
S17 M11A/B	Stairway to Street	0.18	A	0.14	A
S19 M13 A/B	Stairway to Street	0.94	C	0.72	C
S18/M12	Stairway to Street	0.26	A	0.26	A
S20 M14A/B	Stairway to Street	1.24	D	0.92	C
2 and 3 Park Place Station					
R115	3 Turnstiles, 1 HXT and 2 HEET	0.15	A	0.16	A
S1/M1	Stairway to Street	0.68	B	0.74	C

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R115	3 Turnstiles, 1 HXT and 2 HEET	0.15	A	0.16	A
P1/P3/P5	Stairway to Platform	0.02	A	0.01	A
P2/P6/P4A/B	Stairway to Platform	0.01	A	0.01	A
E301	4-Foot Wide Escalator from Platform (up)	0.32	B	0.07	A
E302	4-Foot Wide Escalator to Platform (down)	0.03	A	0.33	B
P10/P12	Stairway to Platform	0.42	A	0.51	B
P11/P13	Stairway to Platform	0.30	A	0.39	A
P9 A/B	Stairway to Mezzanine	0.49	B	0.64	B
N and R Cortlandt Street Station					
A50	Turnstile	0.07	A	0.06	A
S6/P6	Stairway to Street	0.04	A	0.11	A
S8/P8	Stairway to Street	0.32	A	0.20	A
U2/U4	Transfer Stairway	0.00	A	0.04	A
U6/U8	Transfer Stairway	0.00	A	0.06	A
A52	Turnstile	0.03	A	0.10	A
A52X1/A52X2	HEET	0.05	A	0.05	A
S5/S7	Turnstile (north)	0.08	A	0.19	A
S9/S11	Stairway to Street	0.14	A	0.37	A
P3 A/B	Stairway to Fare Array	0.10	A	0.25	A
U1/U3	Transfer Stairway	0.01	A	0.11	A
U9 A/B	Transfer Stairway	0.00	A	0.03	A
A51	Turnstile	0.12	A	0.12	A
S4/P4	Stairway to Street	0.43	A	0.43	A
A53	Turnstile	0.11	A	0.15	A
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
N and R Cortlandt Street Station					
S1/S3, P1A/B	Stairway to Street	0.33	A	0.44	A
4 and 5 Fulton Street Station					
<i>Street Level</i>					
P9A	Street Stairs	0.79	C	0.17	A
P9B	Street Stairs	0.39	A	0.09	A
P11	Street Stairs	0.07	A	0.06	A
P16	Street Stairs	0.63	B	0.15	A

Appendix F. Transit and Pedestrians

P17	Street Stairs	0.20	A	0.45	B
P2	Escalator up to street (north)	0.09	A	0.01	A
P18	Escalator down from street (north)	0.05	A	0.37	B
P4	Escalator up to street (northeast corner)	0.19	A	0.06	A
P21	Escalator down from street (northeast corner)	0.08	A	0.09	A
P3	Escalator up to street (south)	0.17	A	0.01	A
P19	Escalator down from street (south)	0.02	A	0.28	B
P5	Escalator up to street (southeast corner)	0.19	A	0.04	A
P22	Escalator down from street (southeast corner)	0.05	A	0.09	A
P15	Escalator up from platform to World of Golf	0.44	C	0.01	A
P20	Escalator down from World of Golf to platform	0.01	A	0.26	B
C25	Escalator up (express)	0.21	B	0.02	A
C26	Escalator down (express)	0.21	B	0.02	A
S5	Southeast exit to John (Walkway)	0.18	A	0.12	A
<i>Concourse Level</i>					
C11 and C27	Turnstile	0.31	B	0.31	B
C1	A/C Platform Stairs	0.45	A	0.34	A
C2	A/C Platform Stairs	0.67	B	0.52	B
C3	A/C Platform Stairs	0.89	C	0.69	B
C4	A/C Platform Stairs	0.89	C	0.69	B
C5	A/C Platform Stairs	0.91	C	0.71	C
C8&C20	Stair to platform (north)	0.60	B	0.13	A
C9&C21	Stair to platform (south)	0.34	A	0.28	A
C12&C22	Stair	0.02	A	0.01	A
C15&C23	Stair from street to platform	0.31	A	0.17	A
C19&C24	Stair from underpass to platform	0.13	A	0.48	B
C8	Escalator up to platform (north)	0.47	C	0.03	A
C20	Escalator down from platform (north)	0.08	A	0.16	A
C9	Escalator up to platform (south)	0.41	C	0.41	C
C21	Escalator down from platform (south)	0.24	B	0.06	A
C12	Escalator up	0.12	A	0.03	A

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C22	Escalator down	0.03	A	0.09	A
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
4 and 5 Fulton Street Station					
<i>Concourse Level</i>					
C25	Escalator up (express)	0.21	B	0.02	A
C26	Escalator down (express)	0.21	B	0.02	A
C15	Escalator up from street to platform	0.23	B	0.18	A
C23	Escalator down from platform to street	0.52	C	0.29	B
C19	Escalator up from underpass to platform	0.16	A	0.13	A
C24	Escalator down from platform to underpass	0.10	A	0.51	C
C13 and C28	Dey Street Concourse (east)	0.34	A	0.32	A
C14 and C29	Dey Street Concourse (west)	0.46	B	0.38	A
C18 and C31	Central underpass	0.56	B	0.22	A
<i>Platform Level</i>					
P6 and P13	Turnstile	0.44	C	0.49	C
P8	HEETs SB Lex platform (northwest corner)	0.52	C	0.11	A
P10	HEETs SB Lex platform (southwest corner)	0.13	A	0.11	A
P14 and P26	Turnstile	0.32	B	0.14	A
P9A	Street Stairs	0.79	C	0.17	A
P9B	Street Stairs	0.39	A	0.09	A
P11	Street Stairs	0.07	A	0.06	A
P16	Street Stairs	0.63	B	0.15	A
P17	Street Stairs	0.20	A	0.45	B
P2&P18	Stair to street (north)	0.02	A	0.03	A
P3&P19	Stair to street (south)	0.02	A	0.02	A
P15&P20	Stair from platform to World of Golf	0.10	A	0.06	A
C12&C22	Stair	0.02	A	0.01	A
C15&C23	Stair from street to platform	0.37	A	0.20	A
C19&C24	Stair from underpass to platform	0.15	A	0.57	B
P2	Escalator up to street (north)	0.09	A	0.01	A
P18	Escalator down from street (north)	0.05	A	0.37	B
P3	Escalator up to street (south)	0.17	A	0.01	A
P19	Escalator down from street (south)	0.02	A	0.28	B

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P4	Escalator up to street (northeast corner)	0.19	A	0.06	A
P21	Escalator down from street (northeast corner)	0.08	A	0.09	A
P5	Escalator up to street (southeast corner)	0.19	A	0.04	A
P22	Escalator down from street (southeast corner)	0.05	A	0.09	A
P15	Escalator up from platform to World of Golf	0.44	C	0.01	A
P20	Escalator down from World of Golf to platform	0.01	A	0.26	B
C12	Escalator up	0.12	A	0.03	A
C22	Escalator down	0.03	A	0.09	A
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
4 and 5 Fulton Street Station					
<i>Platform Level</i>					
C15	Escalator up from street to platform	0.23	B	0.18	A
C23	Escalator down from platform to street	0.52	C	0.29	B
C19	Escalator up from underpass to platform	0.16	A	0.13	A
C24	Escalator down from platform to underpass	0.10	A	0.51	C
E World Trade Center					
N94	Turnstile	0.46	C	0.38	B
N94.X3	1 HXT plus 2 HEET (north)	0.37	B	0.35	B
P9	Stairway to Platform	0.43	A	0.35	A
P8	Stairway to Platform	0.17	A	0.18	A
P7 A/B	Stairway to Platform	0.22	A	0.21	A
P10 A/B	Stairway to Platform	0.25	A	0.40	A
<i>Notes : v/c = volume/capacity ratio; LOS = Level of Service;</i>					
<i>HEET = High Entrance/Exit Turnstile; HXT = High Revolving Exit Gate</i>					
<i>Source: Louis Berger Group, Inc. (2003)</i>					

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Table F-6					
Future without the Proposed Action - Current Conditions Scenario					
2015 Subway Pedestrian Analysis					
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
A and C Chambers Street Station					
N92	Turnstile (south)	0.12	A	0.33	B
N92.X1	HXT	0.17	A	0.01	A
N92.X2	HXT	0.88	E	0.15	A
P8 A/B	Transfer Stairway (to 2/3)	0.38	A	0.50	B
P18A/B & P19A/B	Stairway to Platform	0.47	B	0.25	A
N92	Turnstile (north)	0.31	B	0.43	C
N92.X3	HXT	0.23	B	0.02	A
N92.X4	HXT	0.44	C	0.07	A
P10 A/B	Stairway to Platform	0.06	A	0.41	A
P11	Stairway to Platform	0.60	B	1.73	F
P12	Stairway to Platform	0.03	A	0.43	A
P13	Stairway to Platform	0.36	A	0.29	A
N91	Turnstile	0.41	C	0.39	B
N91.X1	1 HEET plus 1 HXT	0.19	A	0.03	A
N91.X2	HEET	0.28	B	0.06	A
N92.X5	HXT	0.14	A	0.05	A
N92.X6	HXT	0.05	A	0.01	A
P14	Stairway to Platform	0.22	A	0.08	A
P15	Stairway to Platform	0.19	A	0.10	A
P16	Stairway to Platform	0.45	A	0.21	A
P17	Stairway to Platform	0.82	C	1.20	D
Church Street Passageway					
N94	Turnstile	0.48	C	0.40	B
N94.X3	1 HXT plus 2 HEET (north)	0.38	B	0.36	B
N92	Turnstile (south)	0.12	A	0.33	B
N92.X1	HXT (South)	0.17	A	0.01	A
N92.X2	HXT (South)	0.88	E	0.15	A

Appendix F. Transit and Pedestrians

N92	Turnstile (north)	0.31	B	0.43	C
N92.X3	HXT (North)	0.23	B	0.02	A
N92.X4	HXT (North)	0.44	C	0.07	A
N92.X5	HXT	0.14	A	0.05	A
N92.X6	HXT	0.05	A	0.01	A
N91	Turnstile	0.41	C	0.39	B
N91.X1	1 HEET plus 1 HXT	0.19	A	0.03	A
N91.X2	HEET	0.28	B	0.06	A
P2 A/B	Stairway to Street	0.63	B	0.94	C
S3	Stairway to Street	0.92	C	1.32	D
S2	Stairway to Street	0.35	A	0.57	B
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
Church Street Passageway					
P4/S5	Stairway to Street	0.53	B	0.60	B
P5/S6	Stairway to Street	0.62	B	0.65	B
S7 ML1A/B	Stairway to Street	0.61	B	0.95	C
S8 M1A/B	Stairway to Street	0.76	C	0.73	C
S10/M3 ⁽²⁾	Stairway to Street	0.67	B	0.84	C
S9/M2 ⁽²⁾	Stairway to Street	0.61	B	0.97	C
S11 M4A/B	Stairway to Street	0.12	A	0.31	A
S12 M5A/B	Stairway to Street	0.42	A	0.18	A
S13 M6 A/B	Stairway to Street	0.05	A	0.06	A
S15 M8A/B	Stairway to Street	0.08	A	0.05	A
S17 M11A/B	Stairway to Street	0.18	A	0.15	A
S19 M13 A/B	Stairway to Street	0.96	C	0.73	C
S18/M12	Stairway to Street	0.27	A	0.27	A
S20 M14A/B	Stairway to Street	1.28	D	0.95	C
2 and 3 Park Place Station					
R115	3 Turnstiles, 1 HXT and 2 HEET	0.15	A	0.16	A
S1/M1	Stairway to Street	0.70	C	0.76	C

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R115	3 Turnstiles, 1 HXT and 2 HEET	0.15	A	0.16	A
P1/P3/P5	Stairway to Platform	0.02	A	0.01	A
P2/P6/P4A/B	Stairway to Platform	0.01	A	0.01	A
E301	4-Foot Wide Escalator from Platform (up)	0.33	B	0.07	A
E302	4-Foot Wide Escalator to Platform (down)	0.03	A	0.33	B
P10/P12	Stairway to Platform	0.43	A	0.53	B
P11/P13	Stairway to Platform	0.30	A	0.40	A
P9 A/B	Stairway to Mezzanine	0.50	B	0.66	B
N and R Cortlandt Street Station					
A50	Turnstile	0.08	A	0.06	A
S6/P6	Stairway to Street	0.04	A	0.11	A
S8/P8	Stairway to Street	0.33	A	0.20	A
U2/U4	Transfer Stairway	0.00	A	0.04	A
U6/U8	Transfer Stairway	0.00	A	0.06	A
A52	Turnstile	0.03	A	0.10	A
A52X1/A52X2	HEET	0.06	A	0.05	A
S5/S7	Stairway to Street	0.08	A	0.20	A
S9/S11	Stairway to Street	0.14	A	0.38	A
P3 A/B	Stairway to Fare Array	0.10	A	0.26	A
U1/U3	Transfer Stairway	0.01	A	0.11	A
U9 A/B	Transfer Stairway	0.00	A	0.03	A
A51	Turnstile	0.13	A	0.13	A
S4/P4	Stairway to Street	0.44	A	0.44	A
A53	Turnstile	0.11	A	0.15	A
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
N and R Cortlandt Street Station					
S1/S3, P1A/B	Stairway to Street	0.33	A	0.46	B
4 and 5 Fulton Street Station					
<i>Street Level</i>					
P9A	Street Stairs	0.92	C	0.20	A
P9B	Street Stairs	0.46	B	0.10	A
P11	Street Stairs	0.09	A	0.08	A
P16	Street Stairs	0.74	C	0.17	A

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P17	Street Stairs	0.23	A	0.53	B
P2	Escalator up to street (north)	0.10	A	0.01	A
P18	Escalator down from street (north)	0.06	A	0.44	C
P4	Escalator up to street (northeast corner)	0.22	B	0.07	A
P21	Escalator down from street (northeast corner)	0.09	A	0.11	A
P3	Escalator up to street (south)	0.20	A	0.01	A
P19	Escalator down from street (south)	0.02	A	0.33	B
P5	Escalator up to street (southeast corner)	0.23	B	0.05	A
P22	Escalator down from street (southeast corner)	0.06	A	0.11	A
P15	Escalator up from platform to World of Golf	0.51	C	0.01	A
P20	Escalator down from World of Golf to platform	0.01	A	0.31	B
C25	Escalator up (express)	0.24	B	0.02	A
C26	Escalator down (express)	0.24	B	0.02	A
S5	Southeast exit to John (Walkway)	0.21	A	0.14	A
<i>Concourse Level</i>					
C11 and C27	Turnstile	0.36	B	0.36	B
C1	A/C Platform Stairs	0.52	B	0.41	A
C2	A/C Platform Stairs	0.79	C	0.61	B
C3	A/C Platform Stairs	1.05	D	0.81	C
C4	A/C Platform Stairs	1.05	D	0.81	C
C5	A/C Platform Stairs	1.07	D	0.83	C
C8&C20	Stair to platform (north)	0.71	C	0.16	A
C9&C21	Stair to platform (south)	0.40	A	0.32	A
C12&C22	Stair	0.02	A	0.01	A
C15&C23	Stair from street to platform	0.37	A	0.20	A
C19&C24	Stair from underpass to platform	0.15	A	0.57	B
C8	Escalator up to platform (north)	0.56	C	0.04	A
C20	Escalator down from platform (north)	0.10	A	0.19	A
C9	Escalator up to platform (south)	0.49	C	0.49	C
C21	Escalator down from platform (south)	0.28	B	0.07	A
C12	Escalator up	0.14	A	0.03	A

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C22	Escalator down	0.04	A	0.11	A
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
4 and 5 Fulton Street Station					
<i>Concourse Level</i>					
C25	Escalator up (express)	0.24	B	0.02	A
C26	Escalator down (express)	0.24	B	0.02	A
C15	Escalator up from street to platform	0.28	B	0.21	B
C23	Escalator down from platform to street	0.61	D	0.34	B
C19	Escalator up from underpass to platform	0.19	A	0.16	A
C24	Escalator down from platform to underpass	0.12	A	0.60	D
C13 and C28	Dey Street Concourse (east)	0.39	A	0.37	A
C14 and C29	Dey Street Concourse (west)	0.54	B	0.45	B
C18 and C31	Central underpass	0.66	B	0.25	A
<i>Platform Level</i>					
P6 and P13	Turnstile	0.51	C	0.58	C
P8	HEETs SB Lex platform (NW corner)	0.62	D	0.14	A
P10	HEETs SB Lex platform (SW corner)	0.15	A	0.13	A
P14 and P26	Turnstile	0.38	B	0.16	A
P9A	Street Stairs	0.92	C	0.20	A
P9B	Street Stairs	0.46	B	0.10	A
P11	Street Stairs	0.09	A	0.08	A
P16	Street Stairs	0.74	C	0.17	A
P17	Street Stairs	0.23	A	0.53	B
P2&P18	Stair to street (north)	0.02	A	0.04	A
P3&P19	Stair to street (south)	0.02	A	0.03	A
P15&P20	Stair from platform to World of Golf	0.11	A	0.07	A
C12&C22	Stair	0.02	A	0.01	A
C15&C23	Stair from street to platform	0.37	A	0.20	A
C19&C24	Stair from underpass to platform	0.15	A	0.57	B
P2	Escalator up to street (north)	0.10	A	0.01	A
P18	Escalator down from street (north)	0.06	A	0.44	C
P3	Escalator up to street (south)	0.20	A	0.01	A
P19	Escalator down from street (south)	0.02	A	0.33	B

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P4	Escalator up to street (northeast corner)	0.22	B	0.07	A
P21	Escalator down from street (northeast corner)	0.09	A	0.11	A
P5	Escalator up to street (southeast corner)	0.23	B	0.05	A
P22	Escalator down from street (southeast corner)	0.06	A	0.11	A
P15	Escalator up from platform to World of Golf	0.51	C	0.01	A
P20	Escalator down from World of Golf to platform	0.01	A	0.31	B
C12	Escalator up	0.06	A	0.03	A
C22	Escalator down	0.04	A	0.11	A
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
4 and 5 Fulton Street Station					
<i>Platform Level</i>					
C23	Escalator down from platform to street	0.61	D	0.34	B
C19	Escalator up from underpass to platform	0.19	A	0.16	A
C24	Escalator down from platform to underpass	0.12	A	0.60	D
E World Trade Center					
N94	Turnstile	0.48	C	0.40	B
N94.X3	1 HXT plus 2 HEET (north)	0.38	B	0.36	B
P9	Stairway to Platform	0.44	A	0.36	A
P8	Stairway to Platform	0.17	A	0.18	A
P7 A/B	Stairway to Platform	0.22	A	0.21	A
P10 A/B	Stairway to Platform	0.26	A	0.41	A
<p><i>Notes : v/c = volume/capacity ratio; LOS = Level of Service;</i></p> <p align="center"><i>HEET = High Entrance/Exit Turnstile; HXT = High Revolving Exit Gate</i></p> <p><i>Source: Louis Berger Group, Inc. (2003)</i></p>					

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Table F-7					
2009 Build Conditions – Weekday Subway Pedestrian Analysis					
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
A and C Chambers Street Station					
N92 (South)	Turnstile	0.13	A	0.37	B
N92.X1	HXT	0.16	A	0.01	A
N92.X2	HXT	0.85	E	0.15	A
P8 A/B	Transfer Stairway (to 2/3)	0.43	A	0.51	B
P18A/B & P19A/B	Stairway to Platform	0.48	B	0.27	A
N92 (North)	Turnstile	0.37	B	0.50	C
N92.X3	HXT	0.23	B	0.02	A
N92.X4	HXT	0.43	C	0.07	A
P10 A/B	Stairway to Platform	0.06	A	0.40	A
P11	Stairway to Platform	0.69	B	1.95	F
P12	Stairway to Platform	0.03	A	0.48	B
P13	Stairway to Platform	0.41	A	0.31	A
N91	Turnstile	0.40	B	0.38	B
N91.X1	1 HEET plus 1 HXT	0.19	A	0.03	A
N91.X2	HEET	0.27	B	0.05	A
N92.X5	HXT	0.14	A	0.05	A
N92.X6	HXT	0.05	A	0.01	A
P14	Stairway to Platform	0.22	A	0.08	A
P15	Stairway to Platform	0.18	A	0.09	A
P16	Stairway to Platform	0.44	A	0.20	A
P17	Stairway to Platform	0.80	C	1.16	D
Church Street Passageway					
N94	Turnstile	0.58	C	0.53	C
N94.X3	1 HXT plus 2 HEET (north)	0.37	B	0.35	B
N92	Turnstile (south)	0.13	A	0.37	B
N92.X1	HXT (South)	0.16	A	0.01	A
N92.X2	HXT (South)	0.85	E	0.15	A
N92	Turnstile (north)	0.37	B	0.50	C

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N92.X3	HXT (North)	0.23	B	0.02	A
N92.X4	HXT (North)	0.43	C	0.07	A
N92.X5	HXT	0.14	A	0.05	A
N92.X6	HXT	0.05	A	0.01	A
N91	Turnstile	0.40	B	0.38	B
N91.X1	1 HEET plus 1 HXT	0.19	A	0.03	A
N91.X2	HEET	0.27	B	0.05	A
P2 A/B	Stairway to Street	0.67	B	0.98	C
S3	Stairway to Street	0.95	C	1.35	E
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
Church Street Passageway					
S2	Stairway to Street	0.40	A	0.62	B
P4/S5	Stairway to Street	0.50	B	0.58	B
P5/S6	Stairway to Street	0.60	B	0.63	B
S7 ML1A/B	Stairway to Street	0.60	B	0.92	C
S8 M1A/B	Stairway to Street	0.73	C	0.71	C
S10/M3	Stairway to Street	0.65	B	0.81	C
S9/M2	Stairway to Street	0.59	B	0.93	C
S11 M4A/B	Stairway to Street	0.12	A	0.29	A
S12 M5A/B	Stairway to Street	0.40	A	0.17	A
S13 M6 A/B	Stairway to Street	0.05	A	0.06	A
S15 M8A/B	Stairway to Street	0.07	A	0.05	A
S17 M11A/B	Stairway to Street	0.18	A	0.14	A
S19 M13 A/B	Stairway to Street	0.94	C	0.72	C
S18/M12	Stairway to Street	0.26	A	0.26	A
S20 M14A/B	Stairway to Street	1.24	D	0.92	C
2 and 3 Park Place Station					
R115	3 Turnstiles, 1 HXT and 2 HEET	0.15	A	0.16	A
S1/M1	Stairway to Street	0.68	B	0.74	C
R115	3 Turnstiles, 1 HXT and 2 HEET	0.15	A	0.16	A

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P1/P3/P5	Stairway to Platform	0.02	A	0.01	A
P2/P6/P4A/B	Stairway to Platform	0.01	A	0.01	A
E301	4-Foot Wide Escalator from Platform (up)	0.32	B	0.07	A
E302	4-Foot Wide Escalator to Platform (down)	0.03	A	0.33	B
P10/P12	Stairway to Platform	0.44	A	0.54	B
P11/P13	Stairway to Platform	0.31	A	0.41	A
P9 A/B	Stairway to Mezzanine	0.57	B	0.68	B
4 and 5 Fulton Street Station					
<i>Street Level</i>					
P9A	Street Stairs	0.92	C	0.20	A
P9B	Street Stairs	0.46	B	0.10	A
P11	Street Stairs	0.09	A	0.08	A
P16	Street Stairs	0.74	C	0.17	A
P17	Street Stairs	0.23	A	0.53	B
P2	Escalator up to street (north)	0.10	A	0.01	A
P18	Escalator down from street (north)	0.06	A	0.44	C
P4	Escalator up to street (northeast corner)	0.22	B	0.07	A
P21	Escalator down from street (northeast corner)	0.09	A	0.11	A
P3	Escalator up to street (south)	0.20	A	0.01	A
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
4 and 5 Fulton Street Station					
<i>Street Level</i>					
P19	Escalator down from street (south)	0.02	A	0.33	B
P5	Escalator up to street (southeast corner)	0.23	B	0.05	A
P22	Escalator down from street (southeast corner)	0.06	A	0.11	A
P15	Escalator up from platform to World of Golf	0.51	C	0.01	A
P20	Escalator down from World of Golf to platform	0.01	A	0.31	B
C25	Escalator up (express)	0.24	B	0.02	A
C26	Escalator down (express)	0.24	B	0.02	A
S5	Southeast exit to John (walkway)	0.21	A	0.14	A
<i>Concourse Level</i>					
C11 and C27	Turnstile	0.36	B	0.36	B
C1	A/C Platform Stairs	0.52	B	0.41	A

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C2	A/C Platform Stairs	0.79	C	0.61	B
C3	A/C Platform Stairs	1.05	D	0.81	C
C4	A/C Platform Stairs	1.05	D	0.81	C
C5	A/C Platform Stairs	1.07	D	0.83	C
C8&C20	Stair to platform (north)	0.71	C	0.16	A
C9&C21	Stair to platform (south)	0.40	A	0.32	A
C12&C22	Stair	0.02	A	0.01	A
C15&C23	Stair from street to platform	0.37	A	0.20	A
C19&C24	Stair from underpass to platform	0.15	A	0.57	B
C8	Escalator up to platform (north)	0.56	C	0.04	A
C20	Escalator down from platform (north)	0.10	A	0.19	A
C9	Escalator up to platform (south)	0.49	C	0.49	C
C21	Escalator down from platform (south)	0.28	B	0.07	A
C12	Escalator up	0.14	A	0.03	A
C22	Escalator down	0.04	A	0.11	A
C25	Escalator up (express)	0.24	B	0.02	A
C26	Escalator down (express)	0.24	B	0.02	A
C15	Escalator up from street to platform	0.28	B	0.21	B
C23	Escalator down from platform to street	0.61	D	0.34	B
C19	Escalator up from underpass to platform	0.19	A	0.16	A
C24	Escalator down from platform to underpass	0.12	A	0.60	D
C13 and C28	Dey Street Concourse (east)	0.39	A	0.37	A
C14 and C29	Dey Street Concourse (west)	0.54	B	0.45	B
C18 and C31	Central underpass	0.66	B	0.25	A
<i>Platform Level</i>					
P6 and P13	Turnstile	0.51	C	0.58	C
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
4 and 5 Fulton Street Station					
<i>Platform Level</i>					
P8	HEETs SB Lex platform (nothwest corner)	0.62	D	0.14	A

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P10	HEETs SB Lex platform (southwest corner)	0.15	A	0.13	A
P14 and P26	Turnstile	0.38	B	0.16	A
P9A	Street Stairs	0.92	C	0.20	A
P9B	Street Stairs	0.46	B	0.10	A
P11	Street Stairs	0.09	A	0.08	A
P16	Street Stairs	0.74	C	0.17	A
P17	Street Stairs	0.23	A	0.53	B
P2&P18	Stair to street (north)	0.02	A	0.04	A
P3&P19	Stair to street (south)	0.02	A	0.03	A
P15&P20	Stair from platform to World of Golf	0.11	A	0.07	A
C12&C22	Stair	0.02	A	0.01	A
C15&C23	Stair from street to platform	0.37	A	0.20	A
C19&C24	Stair from underpass to platform	0.15	A	0.57	B
P2	Escalator up to street (north)	0.10	A	0.01	A
P18	Escalator down from street (north)	0.06	A	0.44	C
P3	Escalator up to street (south)	0.20	A	0.01	A
P19	Escalator down from street (south)	0.02	A	0.33	B
P4	Escalator up to street (northeast corner)	0.22	B	0.07	A
P21	Escalator down from street (northeast corner)	0.09	A	0.11	A
P5	Escalator up to street (southeast corner)	0.23	B	0.05	A
P22	Escalator down from street (southeast corner)	0.06	A	0.11	A
P15	Escalator up from platform to World of Golf	0.51	C	0.01	A
P20	Escalator down from World of Golf to platform	0.01	A	0.31	B
C12	Escalator up	0.14	A	0.03	A
C22	Escalator down	0.04	A	0.11	A
C15	Escalator up from street to platform	0.28	B	0.21	B
C23	Escalator down from platform to street	0.61	D	0.34	B
C19	Escalator up from underpass to platform	0.19	A	0.16	A
N and R Cortlandt Street Station					
A50	Turnstile	0.13	A	0.10	A
S6/P6	Stairway from platform to street	0.03	A	0.13	A
S8/P8	Stairway from platform to street	0.32	A	0.25	A
	Stairway next to Millennium	0.29	A	0.29	A
SA (U2-U4)	Stairway from platform to Concourse	0.14	A	0.15	A

Appendix F. Transit and Pedestrians

SB2(U6-U8)	Stairway from platform to Concourse	0.21	A	0.22	A
	Millennium 4-Foot wide Escalator (up)	0.04	A	0.04	A
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
N and R Cortlandt Street Station					
A52	Turnstile	0.18	A	0.21	B
A52A	HEET	0.28	B	0.29	B
A52B	HEET	0.40	C	0.44	C
S5/S7	Stairway to Street	0.04	A	0.09	A
S9/S11	Stairway to Street	0.07	A	0.17	A
SA (U2-U4)	Stairway to Concourse	0.14	A	0.15	A
SB1(U6-U8)	Stairway to Concourse	0.19	A	0.22	A
SB2(U6-U8)	Stairway to Concourse	0.21	A	0.22	A
A (Stair to WTC)	Stairway to PATH	0.57	B	0.46	B
B (Stair to WTC)	Stairway to PATH	0.57	B	0.46	B
U5-U7	West Side stairway to Concourse	0.15	A	0.17	A
Escalator to WTC	Escalator from Concourse to PATH (up)	0.38	B	0.10	A
Escalator to WTC	Escalator from Concourse to PATH (down)	0.16	A	0.29	B
A51	Turnstile	0.12	A	0.11	A
S4/P4	Stairway to Street	0.20	A	0.32	A
P2	Stairway to Street/1 Liberty Plaza	0.12	A	0.04	A
	Stairways to Street	0.10	A	0.04	A
1 Liberty Plaza	High Revolving Exit and Entrance Gate	0.07	A	0.02	A
A53	Turnstile	0.16	A	0.17	A
S1/S3, P1A/B	Stairway to Street	0.46	B	0.51	B
E World Trade Center					
N94	Turnstile	0.58	C	0.53	C
N94.X3	1 HXT plus 2 HEET (north)	0.37	B	0.35	B
P9	Stairway to Platform	0.43	A	0.35	A
P8	Stairway to Platform	0.17	A	0.18	A
P7 A/B	Stairway to Platform	0.22	A	0.21	A

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P10 A/B	Stairway to Platform	0.25	A	0.40	A
<p><i>Notes : v/c = volume/capacity ratio; LOS = Level of Service;</i> <i>HEET = High Entrance/Exit Turnstile; HXT = High Revolving Exit Gate</i> <i>Source: Louis Berger Group, Inc. (2003)</i></p>					

Table F-8					
2015 Build Conditions – Weekday Subway Pedestrian Analysis					
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
A and C Chambers Street Station					
N92 (South)	Turnstile	0.17	A	0.42	C
N92.X1	HXT	0.17	A	0.01	A
N92.X2	HXT	0.88	E	0.15	A
P8 A/B	Transfer Stairway (to 2/3)	0.46	B	0.55	B
P18A/B & P19A/B	Stairway to Platform	0.52	B	0.31	A
N92 (North)	Turnstile	0.37	B	0.60	D
N92.X3	HXT	0.38	B	0.02	A
N92.X4	HXT	0.73	D	0.07	A
P10 A/B	Stairway to Platform	0.06	A	0.41	A
P11	Stairway to Platform	0.82	C	2.31	F
P12	Stairway to Platform	0.04	A	0.55	B
P13	Stairway to Platform	0.49	B	0.34	A
N91	Turnstile	0.41	C	0.39	B
N91.X1	1 HEET plus 1 HXT	0.19	A	0.03	A
N91.X2	HEET	0.28	B	0.06	A
N92.X5	HXT	0.14	A	0.05	A
N92.X6	HXT	0.05	A	0.01	A
P14	Stairway to Platform	0.22	A	0.08	A
P15	Stairway to Platform	0.19	A	0.10	A
P16	Stairway to Platform	0.45	A	0.21	A
P17	Stairway to Platform	0.82	C	1.20	D
Church Street Passageway					
N94	Turnstile	0.73	D	0.70	D
N94.X3	1 HXT plus 2 HEET (north)	0.38	B	0.36	B
N92	Turnstile (south)	0.17	A	0.42	C

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N92.X1	HXT (South)	0.17	A	0.01	A
N92.X2	HXT (South)	0.88	E	0.15	A
N92	Turnstile (north)	0.37	B	0.60	D
N92.X3	HXT (North)	0.38	B	0.02	A
N92.X4	HXT (North)	0.73	D	0.07	A
N92.X5	HXT	0.14	A	0.05	A
N92.X6	HXT	0.05	A	0.01	A
N91	Turnstile	0.41	C	0.39	B
N91.X1	1 HEET plus 1 HXT	0.19	A	0.03	A
N91.X2	HEET	0.28	B	0.06	A
P2 A/B	Stairway to Street	0.75	C	1.08	D
S3	Stairway to Street	1.04	D	1.46	E
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
Church Street Passageway					
S2	Stairway to Street	0.47	B	0.71	C
P4/S5	Stairway to Street	0.53	B	0.60	B
P5/S6	Stairway to Street	0.62	B	0.65	B
S7 ML1A/B	Stairway to Street	0.61	B	0.95	C
S8 M1A/B	Stairway to Street	0.76	C	0.73	C
S10/M3	Stairway to Street	0.67	B	0.84	C
S9/M2	Stairway to Street	0.61	B	0.97	C
S11 M4A/B	Stairway to Street	0.12	A	0.31	A
S12 M5A/B	Stairway to Street	0.42	A	0.18	A
S13 M6 A/B	Stairway to Street	0.05	A	0.06	A
S15 M8A/B	Stairway to Street	0.08	A	0.05	A
S17 M11A/B	Stairway to Street	0.18	A	0.15	A
S19 M13 A/B	Stairway to Street	0.96	C	0.73	C
S18/M12	Stairway to Street	0.27	A	0.27	A
S20 M14A/B	Stairway to Street	1.28	D	0.95	C
2 and 3 Park Place Station					
R115	3 Turnstiles, 1 HXT and 2 HEET	0.15	A	0.16	A
S1/M1	Stairway to Street	0.70	C	0.76	C
P1/P3/P5	Stairway to Platform	0.02	A	0.01	A

Appendix F. Transit and Pedestrians

P2/P6/P4A/B	Stairway to Platform	0.01	A	0.01	A
E301	4-Foot Wide Escalator from Platform (up)	0.33	B	0.07	A
E302	4-Foot Wide Escalator to Platform (down)	0.03	A	0.33	B
P10/P12	Stairway to Platform	0.47	B	0.58	B
P11/P13	Stairway to Platform	0.34	A	0.44	A
P9 A/B	Stairway to Mezzanine	0.61	B	0.72	C
4 and 5 Fulton Street Station					
<i>Street Level</i>					
P9A	Street Stairs	1.09	D	0.24	A
P9B	Street Stairs	0.54	B	0.12	A
P11	Street Stairs	0.10	A	0.09	A
P16	Street Stairs	0.87	C	0.20	A
P17	Street Stairs	0.27	A	0.63	B
P2	Escalator up to street (north)	0.12	A	0.01	A
P18	Escalator down from street (north)	0.07	A	0.51	C
P4	Escalator up to street (northeast corner)	0.26	B	0.08	A
P21	Escalator down from street (northeast corner)	0.10	A	0.13	A
P3	Escalator up to street (south)	0.23	B	0.01	A
P19	Escalator down from street (south)	0.03	A	0.39	B
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
4 and 5 Fulton Street Station					
<i>Street Level</i>					
P5	Escalator up to street (southeast corner)	0.27	B	0.06	A
P22	Escalator down from street (southeast corner)	0.07	A	0.13	A
P15	Escalator up from platform to World of Golf	0.60	D	0.01	A
P20	Escalator down from World of Golf to platform	0.01	A	0.36	B
C25	Escalator up (express)	0.28	B	0.03	A
C26	Escalator down (express)	0.28	B	0.03	A
S5	Southeast exit to John (Walkway)	0.25	A	0.16	A
<i>Concourse Level</i>					

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C11 and C27	Turnstile	0.43	C	0.43	C
C1	A/C Platform Stairs	0.62	B	0.48	B
C2	A/C Platform Stairs	0.93	C	0.72	C
C3	A/C Platform Stairs	1.23	D	0.95	C
C4	A/C Platform Stairs	1.23	D	0.95	C
C5	A/C Platform Stairs	1.26	D	0.98	C
C8&C20	Stair to platform (north)	0.83	C	0.18	A
C9&C21	Stair to platform (south)	0.47	B	0.38	A
C12&C22	Stair	0.02	A	0.02	A
C15&C23	Stair from street to platform	0.43	A	0.24	A
C19&C24	Stair from underpass to platform	0.18	A	0.67	B
C8	Escalator up to platform (north)	0.65	D	0.05	A
C20	Escalator down from platform (north)	0.11	A	0.22	B
C9	Escalator up to platform (south)	0.57	C	0.57	C
C21	Escalator down from platform (south)	0.33	B	0.08	A
C12	Escalator up	0.17	A	0.04	A
C22	Escalator down	0.05	A	0.13	A
C25	Escalator up (express)	0.28	B	0.03	A
C26	Escalator down (express)	0.28	B	0.03	A
C15	Escalator up from street to platform	0.32	B	0.25	B
C23	Escalator down from platform to street	0.71	D	0.40	C
C19	Escalator up from underpass to platform	0.22	B	0.19	A
C24	Escalator down from platform to underpass	0.14	A	0.71	D
C13 and C28	Dey Street Concourse (east)	0.46	B	0.44	A
C14 and C29	Dey Street Concourse (west)	0.64	B	0.53	B
C18 and C31	Central underpass	0.77	C	0.30	A
<i>Platform Level</i>					
P6 and P13	Turnstile	0.60	D	0.68	D
P8	HEETs SB Lex platform (NW corner)	0.72	D	0.16	A
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
4 and 5 Fulton Street Station					
<i>Platform Level</i>					
P10	HEETs SB Lex platform (southwest corner)	0.18	A	0.16	A

Appendix F. Transit and Pedestrians

P14 and P26	Turnstile	0.44	C	0.19	A
P9A	Street Stairs	1.09	D	0.24	A
P9B	Street Stairs	0.54	B	0.12	A
P11	Street Stairs	0.10	A	0.09	A
P16	Street Stairs	0.87	C	0.20	A
P17	Street Stairs	0.27	A	0.63	B
P2&P18	Stair to street (north)	0.03	A	0.04	A
P3&P19	Stair to street (south)	0.02	A	0.03	A
P15&P20	Stair from platform to World of Golf	0.14	A	0.08	A
C12&C22	Stair	0.02	A	0.02	A
C15&C23	Stair from street to platform	0.43	A	0.24	A
C19&C24	Stair from underpass to platform	0.18	A	0.67	B
P2	Escalator up to street (north)	0.12	A	0.01	A
P18	Escalator down from street (north)	0.07	A	0.51	C
P3	Escalator up to street (south)	0.23	B	0.01	A
P19	Escalator down from street (south)	0.03	A	0.39	B
P4	Escalator up to street (northeast corner)	0.26	B	0.08	A
P21	Escalator down from street (northeast corner)	0.10	A	0.13	A
P5	Escalator up to street (southeast corner)	0.27	B	0.06	A
P22	Escalator down from street (southeast corner)	0.07	A	0.13	A
P15	Escalator up from platform to World of Golf	0.60	D	0.01	A
P20	Escalator down from World of Golf to platform	0.01	A	0.36	B
C12	Escalator up	0.17	A	0.04	A
C22	Escalator down	0.05	A	0.13	A
C15	Escalator up from street to platform	0.32	B	0.25	B
C23	Escalator down from platform to street	0.71	D	0.40	C
C19	Escalator up from underpass to platform	0.22	B	0.19	A
C24	Escalator down from platform to underpass	0.14	A	0.71	D
N and R Cortlandt Street Station					
A50	Turnstile	0.15	A	0.11	A
S6/P6	Stairway from platform to street	0.03	A	0.16	A

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S8/P8	Stairway from platform to street	0.38	A	0.30	A
	Stairway next to Millennium	0.34	A	0.34	A
SA (U2-U4)	Stairway from platform to Concourse	0.16	A	0.17	A
SB2(U6-U8)	Stairway from platform to Concourse	0.25	A	0.26	A
	Millennium 4-Foot wide Escalator (up)	0.04	A	0.04	A
Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
N and R Cortlandt Street Station					
A52	Turnstile	0.22	B	0.25	B
A52A	HEET	0.33	B	0.34	B
A52B	HEET	0.47	C	0.51	C
S5/S7	Stairway to Street	0.04	A	0.11	A
S9/S11	Stairway to Street	0.08	A	0.20	A
SA (U2-U4)	Stairway to Concourse	0.17	A	0.17	A
SB1(U6-U8)	Stairway to Concourse	0.22	A	0.26	A
SB2(U6-U8)	Stairway to Concourse	0.25	A	0.26	A
A (Stair to WTC)	Stairway to PATH	0.67	B	0.54	B
B (Stair to WTC)	Stairway to PATH	0.67	B	0.54	B
U5-U7	West Side stairway to Concourse	0.18	A	0.20	A
Escalator to WTC	Escalator from Concourse to PATH (up)	0.45	C	0.12	A
Escalator to WTC	Escalator from Concourse to PATH (down)	0.19	A	0.34	B
A51	Turnstile	0.14	A	0.13	A
S4/P4	Stairway to Street	0.23	A	0.38	A
P2	Stairway to Street/1 Liberty Plaza	0.14	A	0.05	A
	Stairways to Street	0.12	A	0.04	A
1 Liberty Plaza	High Revolving Exit and Entrance Gate	0.08	A	0.03	A
A53	Turnstile	0.18	A	0.20	B
S1/S3, P1A/B	Stairway to Street	0.54	B	0.60	B
E World Trade Center					
N94	Turnstile	0.73	D	0.70	D
N94.X3	1 HXT plus 2 HEET (north)	0.38	B	0.36	B
P9	Stairway to Platform	0.44	A	0.36	A
P8	Stairway to Platform	0.17	A	0.18	A
P7 A/B	Stairway to Platform	0.22	A	0.21	A

Appendix F. Transit and Pedestrians

P10 A/B	Stairway to Platform	0.26	A	0.41	A
<i>Notes : v/c = volume/capacity ratio; LOS = Level of Service;</i> <i>HEET = High Entrance/Exit Turnstile; HXT = High Revolving Exit Gate</i> <i>Source: Louis Berger Group, Inc., Inc. (2003)</i>					

Table F-8														
Pedestrian Walkway Analysis (Weekday AM, MD and PM)														
Level of Service Results														
Location No.	Intersection	AM				MD				PM				
		Walkway				Walkway				Walkway				
		North		South		North		South		North		South		
		Sq.ft /ped	LOS	Sq.ft /ped	LOS	Sq.ft /ped	LOS	Sq.ft /ped	LOS	Sq.ft /ped	LOS	Sq.ft /ped	LOS	
2001 Pre 9/11														
19	South Overpass Route 9A	-	-	-	0.20	A	-	-	0.14	A	-	-	0.20	A
20	North Overpass Route 9A	-	-	-	0.47	B	-	-	0.31	A	-	-	0.45	B
2003 Post 9/11														
19	South Overpass Route 9A	-	-	-	0.25	A	-	-	0.18	A	-	-	0.26	A
2009 Pre 9/11														
19	South Overpass Route 9A	-	-	-	0.21	A	-	-	0.15	A	-	-	0.21	A
20	North	-	-	-	0.49	B	-	-	0.32	A	-	-	0.47	B

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	Overpass - Route 9A													
2015 Pre 9/11														
19	South Overpass - Route 9A	-	-	-	0.21	A	-	-	0.15	A	-	-	0.22	A
20	North Overpass - Route 9A	-	-	-	0.51	B	-	-	0.33	A	-	-	0.49	B
2009 Post 9/11														
21	Underpass - Route 9A	0.38	A	-	-	0.05	A	-	-	0.26	A	-	-	
2015 Post 9/11														
21	Underpass - Route 9A	0.40	A	-	-	0.06	A	-	-	0.33	A	-	-	
Build 2009 Post 9/11														
21	Underpass - Route 9A	0.39	A	-	-	0.08	A	-	-	0.33	A	-	-	
Build 2015 Post 9/11														
21	Underpass - Route 9A	0.46	B	-	-	0.20	A	-	-	0.38	A	-	-	

