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Airport master plan update: Manchester- Boston regional airport, Manchester, New Hampshire

URS; Jacobs Consultancy; McFarland Johnson; The Smart Associates, Environmental Consultants, Inc.

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APPENDICES



Airport Master Plan Update

Manchester-Boston Regional Airport

Manchester, New Hampshire



Prepared For:

City of Manchester Department of Aviation

Prepared By:



In Association With:







DRAFT

APPENDICES

MANCHESTER-BOSTON REGIONAL AIRPORT Airport Master Plan Update

Prepared for:

City of Manchester Department of Aviation

Prepared by:



In association with:

Jacobs Consultancy McFarland Johnson, Inc. The Smart Associates

December 2010

LIST OF APPENDICES

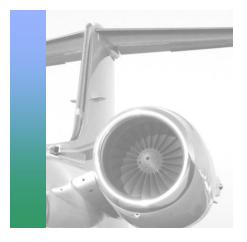
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Appendix B Appendix C Appendix C Appendix D Appendix E Appendix E Appendix F Appendix F Appendix G Appendix G Appendix H Appendix I Appendix I Appendix I Study Advisory Committee (SAC) FAA Forecasts Approval Letter Exhibit "A" Property Map Inventory/Existing Conditions Surface Transportation Flight Explorer TM Data Data Supporting Terminal IT Direction Baggage Screening Factors Impacting Concession Demand	
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MANCHESTER-BOSTON REGIONAL AIRPORT

Airport Master Plan Update

APPENDIX A
List of Acronyms



The following contains a list of acronyms used in the Manchester-Boston Regional Airport Master Plan Update.

AC	Advisory Circular	BMPs BPDU BRT	Best Management Practices Bridge Protocol Data Unit Bus Rapid Transit
ACC ACS ACIP	Airport Communications Center Airport Access Control Airport Capital Improvement	BSO	Baggage Services Office
ADF	Program Aircraft Deicing Fluid	С	
ADG ADO	Aircraft Design Group Airport District Office	CAFR	Comprehensive Annual Financial Report
ADPM AFFF	Average Day Peak Month Aqueous Film-Forming Foam	CAST	Comprehensive Airport Simulation Technology
AGL	Aboveground Level	CAT	Category
AIP	Airport Improvement Program	CBD	Central Business District
ALD	Airport Layout Drawing	CBIS	Checked Baggage Inspection
ALP	Airport Layout Plan		System
ALS	Approach Lighting System	CBP	U.S. Customs and Border
ALSF-2	High Intensity Approach Lighting		Protection
	System with Sequenced Flashing Lights (CAT II	CCSP	Certified Cargo Screening Program
	Standard)	CCTV	Close Circuit Television
AMX	Amoskeag Millyard Mixed Use	CFC	Customer Facility Charge
	District	CFR	Code of Federal Regulations
AOA	Airport Operations Area	CGP	Construction General Permit
APM	Automated People Mover	CIP	Capital Improvement
ARC	Aircraft Reference Code		Plan/Program
ARFF	Airport Rescue and Firefighting	CL	Centerline
ARP	Airport Reference Point	CONRAC	Consolidated Rental Car
ASDA	Accelerate-Stop Distance		Faciility
	Available	CPU	Central Processing Unit
ASOS	Automatic Surface Observation	CSA	Combined Statistical Area
	System	CUSS	Common Use Self Service
ASPM	Aviation System Performance		Devices
	Metrics	CUTE	Common Use Terminal Devices
ASR-9	Airport Surveillance RADAR Model 9	CWA	Clean Water Act
ASR	Alkali Silica Reaction		
ASV	Annual Service Volume	D	
ATADC	Air Traffic Activity Data System	_	A: 1 A 10 15
ATC	Air Traffic Control	D-IV	Airplane Approach Speed D,
ATCT	Airport Traffic Control Tower		Wingspan IV
ATO	Airline Ticket Office	DA	Decision Altitude
AURs	Activities and Use Restrictions	DCA	Washington Reagan Airport
AVI	Automated Vehicle Identifier	DHART	Dartmouth-Hitchcock Advanced
AWOS	Automated Weather Observing		Response Team
,	System	DHS	U.S. Department of Homeland Security
В		DME DOT	Distance Measuring Equipment Department of Transportation
BDL	Bradley International Airport	DSCP	Differentiated Service Code
BHS	Baggage Handling System	DTO	Point
		DTG	Dollar Thrifty Automotive Group

DXP	Digital Extended Processor	HSRP HVAC	Hot Standby Routing Protocol Heating, Ventilation, and Air Conditioning
EDS EIGRP EIS ELGS EMAS EMS EMT EOC EPA	Explosives Detection System Enhanced Interior Gateway Routing Protocol Environmental Impact Statement Effluent Limitation Guidelines Engineered Materials Arresting System Emergency Medical Services Emergency Medical Technician Emergency Operations Center U.S. Environmental Protection	IATA ICA IFR ILS IMC IP IPTV IS IT	International Air Transport Association Initial Climb Area Instrument Flight Rules Instrument Landing System Instrument Meteorological Conditions Internet Protocol Internet Protocol Television Information System Information Technology
ESA EST ETD E&P	Agency Endangered Species Act Edwards System Technology Explosives Trace Detection Engineering and Planning	L LAHSO	Land and Hold Short Operations
FAA FAC FAR FBO FedEx FEET FEMA FFY FHWA FIS FOD FTZ	Federal Aviation Administration Family Assistance Center Federal Aviation Regulations Fixed Base Operator Federal Express F.E. Everett Turnpike Federal Emergency Management Agency Federal Fiscal Year Federal Highway Administration Federal Inspection Services Foreign Object Damage Foreign Trade Zone	LAN LAWRS LBA LBS LCC LDA LMPOD LOC LOI LOS LPV	Local Area Network Limited Aviation Weather Reporting Station Lavallee Brensinger Architects Pounds Low Cost Carrier Landing Distance Available Lake Massabesic Protection Overlay District Localizer Letter of Intent Level of Service Localizer Precision with Vertical Guidance
G GA GDP GPS GQS	General Aviation Gross Domestic Product Global Positioning Satellite (System) Glidepath Qualification Surface	M MAC MALSF MALSR	Media Access Control Medium Intensity Approach Lighting System with Sequenced Flashing Lights Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights Million Annual Passengers
GSE H HATh HIRL	Ground Support Equipment Height Above Threshold High Intensity Runway Lights	MASSPORT MBTA MDA MHT	Massachusetts Port Authority Massachusetts Bay Transit Authority Minimum Descent Altitude Manchester-Boston Regional Airport

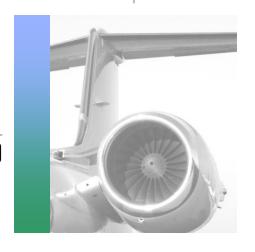
MPU Master Plan Update MSGP Multi-Sector General Permit MSL Mean Sea Level MSGP Multi-Sector General Permit PCI Paverment Condition Index Mean Sea Level MTA Mean Sea Level PCPI PFC apassenger Facility Charge Protocol Independent Multicast PIW PIM PIM PIM PROTOCOL Independent Multicast PIM	MITL	Medium Intensity Taxiway Lights	PAPI	Precision Approach Path Indicator
MTA Manchester Transit Authority PFC PIM PIM Protocol Independent Multicast PIW Protocol Independent Multicast Public Information Workshop PLC Programmable Logic Controllers PSI NAVAID Navigational Aid NCDC National Climatic Data Center NEEP New England Economic Partnership NHDES New Hampshire New Hampshire Department of Environmental Services NHDDR New Hampshire Department of Environmental Services NHDDR New Hampshire Department of Historical Resources NHDDT New Hampshire Department of Transportation NHF&G New Hampshire Pish and Game Department NHRHA New Hampshire Rail Transit Authority NOI Notice of Intent NOTA Notice of Termination NOTA NOTO Notice of Termination NOTA NOTICE OF Airmen NPDES National Pollutant Discharge Elimination System NPR National Pollutant Discharge RPA NPR NAtional Polity Rating NWI National Wetlands Inventory RVR RVR RUNway Safety Action Team RSAT Runway Safety Action Team RSEDS Reduced Size EDS Square Feet S	MSGP	Master Plan Update Multi-Sector General Permit	PCI	Portland Cement Concrete Pavement Condition Index
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N/A Not Applicable NaVAID Navigational Aid PSNH Public Service of New NAVAID Navigational Aid PSNH Public Service of New Hampshire New England Economic PVST Per VLAN Spanning Tree New Hampshire Department of Environmental Services New Hampshire Department of Environmental Services New Hampshire Department of Historical Resources QoS Quality of Service Quick-Turn-Around Transportation NHF&G New Hampshire Psh and Game Department Photosition of New Hampshire Natural Heritage Bureau RAC Rent-a-Car New Hampshire Rail Transit Authority NoI Notice of Intent Notice of Termination NOTAM Notice To Airmen ROFA Runway Object Free Area NPDES National Pollutant Discharge Elimination System RPZ Runway Protection Zone RSAT Runway Safety Action Team NPR National Pilority Rating RSEDS Reduced Size EDS RWI National Wetlands Inventory RWY Runway Visibility Zone RWY Runway Usibility Zone RWY Runway Usibility Zone Runway Object Preservation Officer Operations Operations and Destination System SAC Study Advisory Committee OSP Operations Ope	N			
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NHNHB New Hampshire Natural Heritage Bureau RAC Rent-a-Car NHRTA New Hampshire Rail Transit Authority NOI Notice of Intent RNP Required Navigation NOT Notice of Termination RNP Required Navigational Precision NOTAM Notice To Airmen ROFA Runway Object Free Area NPDES National Pollutant Discharge RON Remain Over Night Elimination System RPZ Runway Protection Zone NPIAS National Plan of Integrated RSA Runway Safety Area Airport Systems RSAT Runway Safety Area NPR National Priority Rating RSEDS Reduced Size EDS NWI National Wetlands Inventory RVR Runway Visual Range RVZ Runway Runway O OAG Official Airline Guide OC Obstruction Chart OCS Obstacle Clearance Surface O&D Origin and Destination OS SHPO State Historic Preservation Officer OMB U.S. Office of Management and Budget OPS Operations OSPF Open Shortest Path First SNHPC Southern New Hampshire Planning Commision SSCP Security Screening Check Points SWPPP Stormwater Pollution Prevention Plan	NHF&G			
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O&M Operation and Maintenance OMB U.S. Office of Management and Budget SMGCS Surface Movement Guidance and Control System OPS Operations OPP Open Shortest Path First SNHPC Southern New Hampshire Planning Commission SSCP Security Screening Check Points SWPPP Stormwater Pollution Prevention Plan	ocs	Obstacle Clearance Surface	0-	
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SWPPP Stormwater Pollution Prevention Plan			SSCP	Security Screening Check
· · · · · · · · · · · · · · · · · · ·	-	Dublic Address Contains	SWPPP	Stormwater Pollution Prevention
			SY	

Т		USDOT	U.S. Department of Transportation
TACAN TAF TBD TCH	Tactical Air Navigation System Terminal Area Forecast To be Determined Threshold Crossing Height	USFWS USPS	U.S. Fish and Wildlife Service U.S. Postal Service
TCP TDZL	Transmission Control Protocol Touchdown Zone Lights	V	
TERPS	Terminal Instrument Procedures	VFR	Visual Flight Rules
TODA TORA	Takeoff Distance Available Take-off Run Available	VLAN VMC	Virtual Local Area Network
TOFA	Taxiway Object Free Area	VIVIC	Visual Meteorological Conditions
TSA	Transportation Security Administration	VoIP VOR	Voice over IP
TSAR	Transportation Security Administration Regulations	VORTAC	VHF Omnidirectional Range Very High Frequency Omni- Directional Radio Range
TSO	Transportation Security Officer		Tactical Air Navigation Aid
T/W	Taxiway		
		W	
U UDLD	Uni-Directional-Link-Detection	WAAS	Wide Area Augmentation System
UPS US USACE USDHS	United Parcel Service United States U.S. Army Corps of Engineers U.S. Department of Homeland Security	WBI	Whole Body Imagers

MANCHESTER-BOSTON REGIONAL AIRPORT

Airport Master Plan Update

 $\begin{array}{c} \textbf{APPENDIX}\,B\\ \textbf{Study Advisory Committee (SAC)} \end{array}$



The following contains a list of Study Advisory Committee (SAC) members involved in the Manchester-Boston Regional Airport Master Plan Update.

Organization	Name
Airport Authority	Gary O'Neil
Airport Administration	Mark Brewer
FAA Planning	Lisa Lesperance
FAA Engineering	Cliff Vacirca
FAA ATCT	Bob Locke and Dan Obert
NHDOT Aeronautics	Jack Ferns
NHDOT	Chris Clement
NHDES	Harry Stewart
Greater Manchester Chamber of Commerce	Michael Skelton
Southern New Hampshire Planning Commission	David Preece and Tim White
Passenger Airlines	Steve Sisneros and Tom Labrie
Cargo Airlines	Maria Hannemann
General Aviation	Steve Young
FBO	Jim Thomforde
City of Manchester Planning Department	Leon LaFreniere
Town of Londonderry Planning & Economic Development	Andre Garron
Manchester Citizen	Bradford E. Cook
Londonderry Citizen	Earl Rosse
Bedford Citizen	Bill Dermody
Goffstown Citizen	Barbara Griffin and Mike Pelletier
Litchfield Citizen	George Lambert
Merrimack Citizen	
Auburn Citizen	Paula Marzloff
TSA	Rob Krekorian
Manchester Conservation Commission	Jane Beaulieu
Londonderry Conservation Commission	Deb Lievens

MANCHESTER-BOSTON REGIONAL AIRPORT

Airport Master Plan Update

APPENDIX C
FAA Forecasts Approval Letter



Administration

June 10, 2010

Mr. Mark P. Brewer Airport Director Manchester-Boston Regional Airport One Airport Road, Suite 300 Manchester, NH 03103

Dear Mr. Brewer:

The Federal Aviation Administration (FAA) has reviewed the forecast for Manchester-Boston Regional Airport, Manchester, NH, as depicted in "Final Technical Report-Aviation Activity Forecasts" dated May 2010, prepared by Jacobs Consultancy. This forecast development is associated with the Airport Master Plan project under Airport Improvement Program (AIP) number 3-33-0011-76-2009.

The methodologies used to develop base and high scenario forecasts reasonably represents anticipated growth at the airport.

FAA accepts these forecasts.

Sincerely,

ORIGINAL SIGNED BY:

Lisa J. Lesperance Airport Planner

Cc: Rich Fixler, MHT



MANCHESTER-BOSTON REGIONAL AIRPORT

Airport Master Plan Update

 $\frac{\text{APPENDIX } D}{\text{Exhibit "A" Property Map}}$



REV. DATE DESCRIPTION C/O DR CK

KEY

GRANTOR

MHT

NO LONGER USED

CITY OF MANCHESTER

U. S. A.

CITY OF MANCHESTER

CITY OF MANCHESTER

AMOSKEAG DEV. CORP

PUBLIC SERVICE CO. OF N.H.

GRENIER-LONDONDERRY DEV. CORP.

MANCHESTER SAVINGS BANK

U. S. A.

U. S. A.

LONDONDERRY HOUSING &

REDEVELOPMENT AUTHORITY

VARIOUS OWNERS

VARIOUS OWNERS

CITY OF MANCHESTER

ROBERT J. AND

MARY C. JANKOWSKI

VARIOUS OWNERS

VARIOUS OWNERS

LILLIAN E. & WILLIAM J. MARSH

FELIX A. CATUDAL, COLLECTOR OF TAXES

MANCHESTER

THOMAS J. AND JEAN MARIE

CHARLAND

MANCHESTER BOARD OF

WATER COMMISSIONERS

LONDONDERRY INDUSTRIAL

WEBCO DEVELOPMENT

25

40

CORPORATION

U. S. A.

PAUL COWETTE

RACHAEL CARRIER

AMERICAN BUILDERS, INC

PUBLIC SERVICE CO. OF N.H

SAMUEL TAMPOSI &

GERALD NASH

CITY OF MANCHESTER

LONDONDERRY HOUSING &

REDEVELOPMENT AUTHORITY

LONDONDERRY HOUSING &

REDEVELOPMENT AUTHORITY

LONDONDERRY HOUSING &

REDEVELOPMENT AUTHORITY

CITY OF MANCHESTER

GRENIER-LONDONDERRY

DEVELOPMENT CORPORTATION

CITY OF MANCHESTER

BERNADETTE J. AND

JOHN D. LUXTON

FABIOLA G. BERGERON

WILLIAM T. SHREVE

CITY OF MANCHESTER

DANIEL T. AND

AGNES A. McCARTHY

MANCHESTER BOARD OF

WATER COMMISSIONERS

21 CURRAN, HAROLD AND CONSTANCE CITY OF MANCHESTER

JOHN AND YOLAUDE MORRILL

GRANTEE

U. S. A.

U. S. A.

CITY OF MANCHESTER

AIRPORT REALTY CORP.

AIRPORT REALTY CORP.

CITY OF MANCHESTER

CITY OF MANCHESTER

CITY OF MANCHESTER

LONDONDERRY HOUSING &

REDEVELOPMENT AUTHORITY

CITY OF MANCHESTER

CITY OF MANCHESTER

CITY OF MANCHESTER

MANCHESTER HOUSING

AUTHORITY

CITY OF MANCHESTER

LONDONDERRY HOUSING &

REDEVELOPMENT AUTHORITY

CITY OF MANCHESTER

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CITY OF MANCHESTER

FORREST N. KIMBALL

CITY OF MANCHESTER

GRENIER-LONDONDERRY

DEVELOPMENT CORP.

CITY OF MANCHESTER

CITY OF MANCHESTER

CITY OF MANCHESTER

HI-TENSION REALTY CORP

CITY OF MANCHESTER

CITY OF MANCHESTER

AIRPORT AUTHORITY

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EASE

FEE

192.22

407

15

4.03

53.77

N/A

157

276.11

5.5

50.7± (S)

101.7

1 ±

10 ± (S)

N/A

 $3 \pm (S)$

 $3.5 \pm (S)$

N/A

2.863

177.94

 $3.2 \pm (S)$

 $0.1 \pm$

 $0.94 \pm$

2.632

25.719

11.5

(S.F.)

0.468

2.87

56.354

71.1

13,000 (S.F.)

.3 ± (S)

32

DATE

6/13/41

9/25/62

9/27/62

6/10/63

9/22/66

9/6/67

04/16/68

8/16/68

9/19/68

9/19/68

12/1/68

FROM 10/15/69

FROM 12/4/69

TO 1/14/71

6/3/70

10/13/70

FROM 4/18/72

TO 3/1/73

FROM 10/5/72

TO 2/3/86

6/30/72

12/12/73

1/74

9/30/74

8/27/74

2/12/75

6/4/75

6/4/75

3/22/76

12/8/76

11/18/68

11/18/68

1/23/78

4/4/78

(RECORDED

5/22/78)

5/19/78

5/19/78

5/19/78

4/9/79

10/17/80

10/24/80

11/23/81

11/19/82

8/15/84

8/28/84

8/15/85

9/10/85

TO 12/23/71

MEMORANDUM

OF AGREEMENT

(R) R.C.R.D

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(H) 1703/333

(R) 1647/1

(H) 1703/317

(R) 1646/481

(H) 1733/359

(H) 1898/157

(R) 1877/206

(H) 1973/390

(H) 1994/155

(R) 1930/282

(H) 1994/166

(H) 2002/147

(R) 1936/257

(H) 2066/143

VARIOUS

VARIOUS

(H) 2086/437

(R) 2039/186

VARIOUS

VARIOUS

(R) 2158/358

(H) 2337/557

VARIOUS

(H) 2375/14

(R)2230/1157

(R) 2233/691

(H) 2405/27²

(R) 2243/378

(H) 2445/348

(R) 2048/307

(H)2006/427

(H)2006/427

(R) 2311/998

(R) 2311/987

(R) 2311/993

(R) 2311/991

(R) 2311/995

(R) 2335/1808

(R) 2379/869

(R) 2379/862

(H)

(H) 2970/39

(H) 3198/497

(H) 3204/79

(H) 3360/858

UNRECORDED

(R) = ROCKINGHAM COUNTY REGISTRY OF DEEDS (H) = HILLSBOROUGH COUNTY REGISTRY OF DEEDS (S) = SCALED

HOYLE, TANNER & ASSOCIATES, INC. NOT FOR RECORDING PURPOSES

ORIGINALLY PREPARED BY

OVEMBER 19, 2008 SHEET 2 OF 3

(R)3648/2006	9/27/01	CITY FUNDS	
(R)3660/0559	7/30/01	SEE NO. 34 AVIGATION ESMT	
NOT RECORDED	1/1/96	AVIGATION ESMT RETAINED	
(H)6602/0038	3/22/02	SEE NO. 25 LAND SWAP WITH NO. 70 RELEASE 3/22/02	
(H)6602/0040	3/22/02	LAND SWAP WITH NO. 69 ROTATING BEACON SITE	
PLAN D-30302	12/5/02	LAND SWAP WITH NO.72 FOR PETTENGILL ROAD REALIGNMENT	
PLAN D-30302	12/5/02	LAND SWAP WITH NO. 71 FOR PETTENGILL ROAD REALIGNMENT	
(R)4046/0977	6/03/03	LAND SWAP WITH NO. 74	
(R)4046/0986	6/03/03	LAND SWAP WITH NO. 73 AVIGATION ESMT RETAINED	
(R)4138/0951	9/02/03	LAND SWAP WITH NO. 76	
(R)4138/0954	7/31/03	LAND SWAP WITH NO. 75 - AVIGATION ESMT. RETAINED-RELEASE 11/15/05	
(H)7231/2010 (H)7197/1322	5/11/04 3/31/04	CITY FUNDS	
(H)7042/0623	8/5/03	AVIGATION ESMT RETAINED	
(R)4125/2744	8/5/03	AVIGATION ESMT RETAINED	
(R)4304/1020	6/2/04	CITY FUNDS	
(H)7731/2005	8/31/06	AVIGATION ESMT RETAINED DATE OF RELEASE 9/8/06	
(H)6666/1265	7/10/02	CITY FUNDS	
(H)&(R) VARIOUS	VARIES	AVIGATION ESMT RETAINED DATE OF RELEASE 2/21/07	
(R) 4593/2343	12/13/05	AVIGATION ESMT OBTAINED	
(H) 7809/2681	2/21/07	AIP 3-33-0011-67	
(H) 7811/0629	2/23/07	AIP 3-33-0011-67	
(H) 7811/0627	2/23/07	AIP 3-33-0011-67	
(H) 7933/1085	12/20/07	AIP 3-33-0011-67	
(H) 7903/0481	9/24/07	AIP 3-33-0011-67	
(H) 7933/1085 (H) 7933/1092	12/20/07	SWAP WITH 88-AVIGATION ESMT. RETAINED RELEASE XX/XX/07, FORMERLY PART OF 55	
(R) 4910/1148	4/25/08	AIP 3-33-0011-75	
		EXHIBI MANCHESTER BOSTON RE	
		SCALE: NONE	JANUARY 21, 2003
	F		ATED: NOVEMBER 19, 2008
	I L LXH-A	2.DWG $\begin{vmatrix} \vec{i} \\ \vec{j} \end{vmatrix}$ D $\begin{vmatrix} \dot{\gamma} \\ \dot{\gamma} \end{vmatrix}$ F $\begin{vmatrix} \dot{A} \\ \dot{\zeta} \end{vmatrix}$	E SHEET 2

(H) H.C.R.D (R) R.C.R.D

BK & PG

(H) 3384/305

(R) 2629/2652

(R) 2629/2640

UNRECORDED

(H) 4073/210

(H) 4385/276

(R)2895/761

(H) 5564/1241

H 5616/0275

H 5616/273

VARIOUS

VARIOUS

(R)3139/0061

(R)3335/1355

(H)6013/0152

(H) 6015/728

(R)3431/2023

(H)6160/0557

(H)6203/1194

(H)6203/1194

VARIOUS

(H)6331/1735

(H)6484/2664

(H)3660/1670

VARIOUS

DATE

9/24/85

1/9/86

3/27/86

1/11/87

1/14/87

9/9/87

10/18/91

7/18/94

12/29/94

12/20/94

FROM 1/11/95

TO 1/30/97

FROM 09/25/95

TO 10/30/98

02/05/96

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10/20/99

09/23/99

1-25-00

1-25-00

VARIOUS

12/20/00

9-05-01

10/22/01

VARIOUS

REMARKS

ACQUIRED UNDER SURPLUS PROPERTY

(PARCEL 25)

LAND EXCHANGE

MEMORANDUM OF

AGREEMENT

SEE NO. 12

EASEMENTS RETAINED

AVIGATION EASEMENT RETAINED

AIP-3-33-0011-13

CITY FUNDS

LAND SWAP WITH NO. 53

ACQUIRED UNDER ADAP 8-33-0011-02

LAND SWAP WITH NO. 52

AIP-3-33-0011-29

AIP 3-33-0011-31

AIP 3-33-0011-26

CITY FUNDS

CITY FUNDS

CITY FUNDS

AIP 3-33-0011-37

ACQUIRED UNDER PURCHASE

ASSURANCE AGREEMENT

AVIGATION EASEMENT RETAINED

PERPETUAL EASEMENT

R/W 6 OUTERMARKER SITE

CITY FUNDS

CITY FUNDS

-	
	REMARKS
	INCLUDES AP-4 LAND
	TRANSFER OF PROPERTY PER QUITCLAIM DEED
	SURPLUS PROPERTY DEED (CORRECTED 4/27/72) INCLUDES AP-4 LAND
	AVIGATION EASEMENT RETAINED
	RELEASE 9/16/66 PORTION OF TRANSFER 9/27/62 AVIGATION EASEMENT RETAINED
	CONDEMNATION FAAP 9-27-018-C603
	AVIGATION ADAP 8-23-0011-02
	SURPLUS PROPERTY DEED
	DEED INCLUDES AVIGATION EASEMENT IN FAVOR OF CITY
	QUITCLAIM EAAD 0 27 018 C005
	FAAP 9-27-018-C905 AVIGATION
	FAAP 9-27-018-C603 RELEASE 8/16/68
-	AVIGATION EASEMENT RETAINED (H) 1994/166
	AVIGATION FAAP 9-27-018-C603 ACQUIRED IN FEE (SEE NO. 56)
	ADAP 8-33-0011-02
	AVIGATION ADAP 8-33-0011-02 SOME LATER ACQUIRED IN FEE SEE #55
	FORMER SCHOOL HOUSE LOT
	AVIGATION EASEMENT ADAP 8-33-0011-02 ACQUIRED IN FEE SEE #55
	AVIGATION
	AVIGATION FAAP 9-27-018-C603
	ADAP 8-33-0011-02 SUBJECT TO RIGHT-OF-WAY (R) 2385/101
	SURPLUS PROPERTY DEED
	FAAP 9-27-018-C603
	AVIGATION ADAP 8-33-0011-02
	FAAP 9-27-018-C603
	FAAP 9-27-018-C603
	FAA RELEASED DEED 5/1/78
	RELEASE FOR PROPERTY EXCHANGE PORTION OF TRANSFER 6/4/75
	AVIGATION EASEMENT RETAINED
+	SUBJECT TO RESTRICTION RELEASED 3660/549: 7/9/01
-	RELEASED 3660/549; 7/9/01 ROTATING BEACON SITE
	RELEASE 3/15/79 PORTION OF TRANSFER 8/16/68
	FAAP 9-27-018-C603
	RELEASE 12/5/74 PORTION OF TRANSFER 9/27/62
	FUNTION OF TRANSPER 9/21/02
	RELEASE 1/3/84
	PORTION OF TRANSFER 9/27/62 AVIGATION EASEMENT RETAINED

KEY

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GRANTOR

WILLIAM D. AND

DORIS L. AUGER

CITY OF MANCHESTER

U. S. A. MANCHESTER BOARD OF

WATER COMMISSIONERS

CITY OF MANCHESTER

CITY OF MANCHESTER

AIRSIDE ASSOC.

LIMITED PARTNERSHIP

HELEN M. CHOUINARD

ESTATE

CITY OF MANCHESTER

1064 GOFFS FALLS ROAD, L.L.C.

VARIOUS OWNERS

VARIOUS OWNERS

SACKETT PLACE

DEVELOPMENT CORP

ROMAN CATHOLIC

BISHOP OF MANCHESTER

FT. WORTH ASSOCIATES, LLC

B&M RAILROAD CORP

COTTER & CO.

COTTER & CO.

VARIOUS OWNERS

1 LINE REALTY

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PETER J. KING

REVOCABLE TRUST OF 1994 ET.AL

VARIOUS OWNERS

HEIRS OF THE

PETTENGILL FAMILY

CITY OF MANCHESTER

PROPERTY SERVICES CO. INC.

CITY OF MANCHESTER

VERRES FINANCIAL CORP

CITY OF MANCHESTER

TOWN OF LONDONDERRY

U.S. ARMY CORPS OF ENG.

CITY OF MANCHESTER

CHESTER R. HAM

CITY OF MANCHESTER

VARIOUS OWNERS

CITY OF MANCHESTER

CITY OF MANCHESTER

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CITY OF MANCHESTER

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AVENUE, L.L.C

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KARL R. RITZINGER

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ADVANTAGE GAS OWNED BY VARIOUS

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RICHARD E. GORSEY REVOCABLE

TRUST DATED 6-24-93

CITY OF MANCHESTER

AEROREPAIR CORPORATION

NO LONGER USED

GRANTEE

CITY OF MANCHESTER

U. S. A.

CITY OF MANCHESTER

CITY OF MANCHESTER

AIRPORT AUTHORITY

VERRES FINANCIAL CORP

THE FELTERS COMPANY

CITY OF MANCHESTER

CITY OF MANCHESTER

1064 GOFFS FALLS ROAD, L.L.C.

CITY OF MANCHESTER

FERROTEC INVESTMENTS

CITY OF MANCHESTER

VERRES FINANCIAL CORP

CITY OF MANCHESTER

TOWN OF LONDONDERRY

CITY OF MANCHESTER

CITY OF MANCHESTER

U.S. ARMY CORPS OF ENG.

CITY OF MANCHESTER

CHESTER R. HAM

CITY OF MANCHESTER

CITY OF MANCHESTER

CITY OF MANCHESTER

STATE OF NEW HAMPSHIRE

CITY OF MANCHESTER

ADVANTAGE GAS OWNED BY VARIOUS

OWNERS-TENNANT IN COMMON

CITY OF MANCHESTER

STATE OF NEW HAMPSHIRE DOT FEE

STATE OF NEW HAMPSHIRE DOT | FEE

ACORN ASSOCIATES LXXXII, LTD. FEE

INST.

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EASE

 $.75 \pm (S)$

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35.76±

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 $7.32 \pm$

18.66±

5.981

2.01±

 $0.05 \pm$

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FEE

MANCHESTER-BOSTON REGIONAL AIRPORT

Airport Master Plan Update

 $\frac{\text{APPENDIX}\, E}{\text{Inventory/Existing Conditions}}$



APPENDIX E1

INVENTORY/EXISTING CONDITIONS

1.0 AIRFIELD PAVEMENT CONDITION INDEX SCORES

The airport conducts annual pavement inspections for the purpose of determining the Pavement Condition Index for the areas which are included in the study. PCI scores are based on a visual review of the pavement, where the scores start at 100 (no distresses) and are reduced according to the length, width, area and severity of distresses. The inspection process usually starts by breaking down the major runway, taxiway or apron pavement areas into similar construction, condition and history sub-units or Sections, which are further broken down into samples. A number of samples within each Section are then randomly chosen for inspection purposes, and the average PCI of the sampled units is presented as the branch PCI. As of October 2009, the majority of the latest PCI inspections were conducted during May and June 2009, with three of the inspections dating to March and April 2008.

The Manchester Terminal Apron ASR Investigation study provided a system for associating PCI scores with a subjective pavement rating on page 6 of the report, where:

86-100 is considered Good

71-85 is considered Satisfactory

56-70 is considered Fair

41-55 is considered Poor

26-40 is considered Very Poor

11-25 is considered Serious

0-10 is considered Failed

The following **Figure E1-1** defines the individual runway and taxiway branches which were used during the PCI inspection and scoring process, which include Sections that have similar construction and history. Aprons are not included in the PCI analysis.

The major runway and taxiway pavement branch/Section PCI are presented in **Table E1-1**, where the taxiway areas include the three partial parallel taxiways ("A", "H" and "J") and the associated stub taxiways, and Taxiway "M" which provides access to the Runway06 threshold from the terminal and air cargo areas. It should be noted that several of the stub taxiways are included in the rating Section for the partial parallel taxiway they connect to, and some of the taxiway connectors are included with other connecting taxiways.

FIGURE E1-1
PAVEMENT PCI SECTIONS

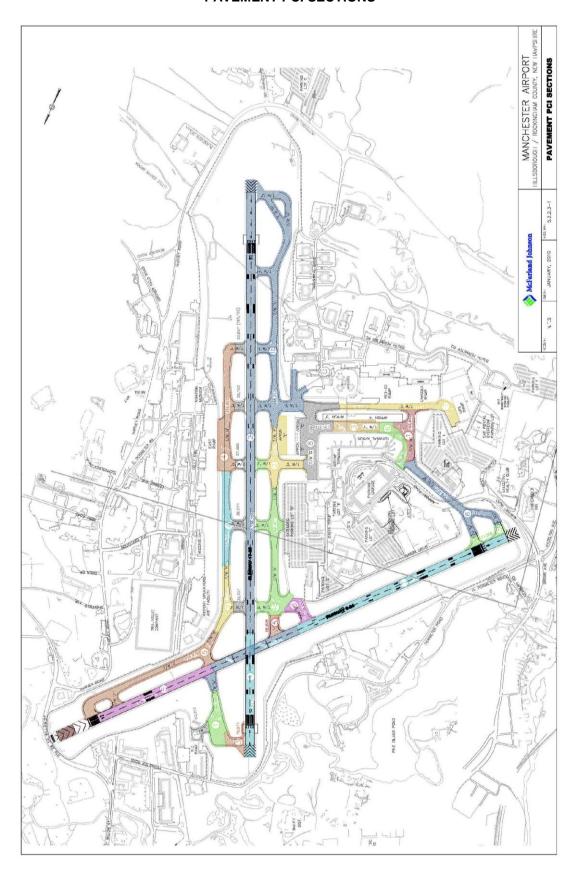


TABLE E1-1 RUNWAY AND PARTIAL PARALLEL TAXIWAY PCI SCORES

Branch ID	Section ID	True Area (sf)	Last Inspection	Age at Inspection	PCI
Runway 17/35	AREA 1 03'	311,100	05/20/2009	6	88
Runway 17/35	AREA 2 02'	1,136,250	05/20/2009	7	83
Runway 06/24	6/24 Intersection	338,213	05/26/2009	6	86
Runway 06/24	RWY 24	323,391	06/04/2009	10	63
Runway 06/24	RWY 06	600,239	06/04/2009	3	85
Partial Par. Taxiway "H"	BLUE 4	226,039	03/24/2008	13	78
Partial Par. Taxiway "H"	GREEN 1	269,066	05/21/2009	16	81
Partial Par. Taxiway "H"	RED 3	79,711	05/20/2009	6	75
Partial Par. Taxiway "H"	RED 4	395,852	05/21/2009	6	74
Partial Par. Taxiway "H"	YELLOW 2	175,066	05/24/2009	16	57
Partial Par. Taxiway "A" (includes Taxiway "P" and "U")	DARK BLUE 4b	970,173	05/21/2009	6	78
Partial Par. Taxiway "A"	GREEN 4a	492,007	05/24/2009	6	62
Partial Par. Taxiway "A"	RED 5	59,338	05/26/2009	6	89
Partial Par. Taxiway "A"	YELLOW 2	333,282	05/24/2009	6	83
Partial Par. Taxiway "J"/"J1"	RED 5	526,978	05/24/2009	10	75
Taxiway "M"/"M1"	BLUE 6	309,922	06/03/2009	6	78
Taxiway "M"/"M1"	GREEN 5	77,356	05/24/2009	3	95
Taxiway "M"	RED 1	166,843	06/03/2009	8	56

Airport PCI Scoring System, October 7, 2009. Source:

The PCI scores for the remaining taxiway Sections which were scored by the airport are provided in the following Table E1-2.

TABLE E1-2 CONNECTOR, STUB AND OTHER TAXIWAY PCI SCORES

Branch ID	Section ID	True Area (sf)	Last Inspection	Age at Inspection	PCI
Five Taxiway "H" Stubs ¹	BLACK 7	156,333	05/24/2009	6	83
Taxiway "G" and "N"	BLACK 8	469,802	06/03/2009	1	97
Taxiway "N"	GREEN 6	126,700	06/03/2009	11	73
Taxiway "N"	ORANGE 3	142,613	06/03/2009	16	55
Taxiway "B"	RED 6	88,887	05/26/2009	10	62
Taxiway "E"	RED 7a	48,428	04/01/2009	15	57
Taxiway "E" (stub taxiway)	YELLOW 7	215,981	06/03/2009	16	80
Taxiway "L"	GRAY 1	60,813	04/01/2008	6	83

Source:

Airport PCI Scoring System, October 7, 2009. $^{\rm 1}$ Includes Stub Taxiways "A1", "B", "C", "D" and "F" on east side of Taxiway "H". Notes:

Based on the subjective ratings for PCI scores, most of the major runway and partial parallel taxiway pavements at MHT are in Satisfactory to Good condition, with four Sections in Fair condition. The connector and stub taxiways at MHT are generally in Fair to Good condition.

All of the airport runway and taxiway Sections are constructed with an asphalt overlay on asphalt concrete, except for a small Section of Taxiway "L" near the northeast hangar area which is asphalt.

The airport PCI program does not routinely include apron areas, where the apron condition is visually inspected by airport personnel during snow removal operations. The concrete airline terminal apron was the subject of a PCI analysis during the 2007 study of the apron's susceptibility to Alkali Silica Reaction (ASR) distresses and deterioration. The apron PCI scores varied from 79 to 95, and suggest that the apron surface is in satisfactory to good condition. The majority of the distresses impacting at least 1% of Section slabs were in the "no" to "low" intensity range, and the predominant distress is low intensity map cracking/scaling. **Figure E1-2** depicts the terminal apron PCI sections. **Table E1-3** describes the airline terminal apron PCI.

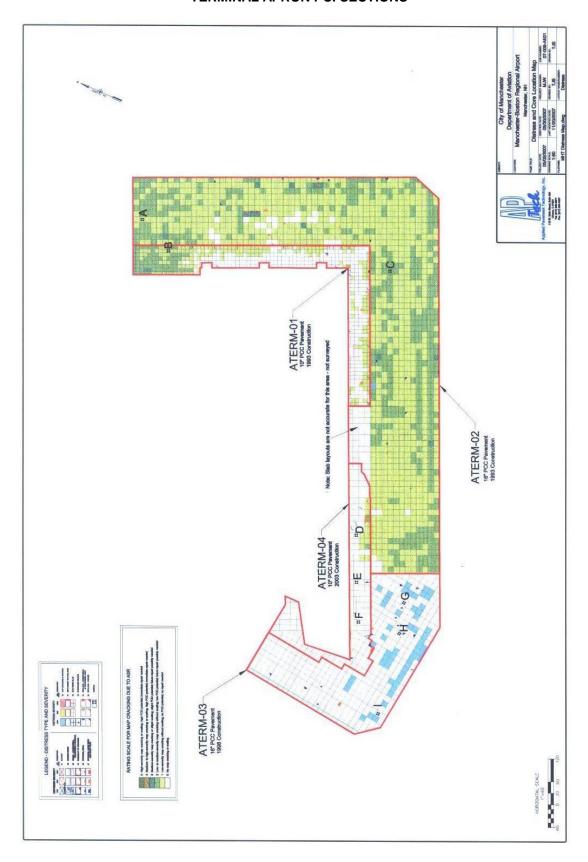
TABLE E1-3 AIRLINE TERMINAL APRON PCI

Terminal Apron	Original			
Section	Date	PCI	Major Distresses Affecting at Least 1% of Total Section Slabs	
			316 slabs (51.6% of total) with low intensity map cracking/scaling	
ATERM-01	1993	85	18 slabs (2.9% of total) with low intensity linear cracking	
			1,287 slabs (93.8% of total) with low intensity map cracking/scaling	
			572 slabs (41.7% of total) with low intensity joint seal damage	
ATERM-02	1993	79	416 slabs (30.3% of total) with medium intensity joint seal damage	
			65 slabs (15.4% of total) with low intensity joint seal damage	
			47 slabs (11.1% of total) with low intensity map cracking/scaling	
ATERM-03	1998	95	8 slabs (1.9% of total) with no intensity shrinkage cracking	
			9 slabs (4.5% of total) with low intensity map cracking/scaling	
			5 slabs (2.5% of total) with low intensity linear cracking	
			2 slabs (1.0% of total) with medium intensity corner spalling	
ATERM-04	2003	95	2 slabs (1.0% of total) with no intensity shrinkage cracking	

Source: MHT Terminal Apron ASR Investigation, 2007.

The study concluded that a significant portion of the concrete distresses and deterioration on the 1993 pavement areas (ATERM-01 and ATERM-02) were related to ASR conditions, and were expected to be a problem in the future. Sections ATERM-03 and ATERM-04 did not show signs of ASR, but the possibility existed in the presence of potassium acetate.

FIGURE E1-2
TERMINAL APRON PCI SECTIONS



The major study recommendations include, but are not limited to:

- Short-Term repairs at 20 locations to eliminate Foreign Object Damage (FOD) potential and extend pavement life, concentrating on:
 - Medium-severity blow-ups
 - Medium-severity corner spalls
 - Medium- and high-severity joint spalls
 - Medium-severity partial-depth patches
 - Application of lithium to retard ASR, if resources allow, with monitoring of treated and untreated areas to judge effectiveness
- Long-Term recommendations:
 - o Patching and slab replacement every three years for medium- and high-severity distresses
 - New expansion joint along the trench drain, and monitor need for another trench drain

The study concluded that the ATERM-01 and ATERM-02 areas should continue to provide adequate service for another ten years after implementation of the study recommendations. Areas ATERM-03 and ATERM-04 should provide the full design life which they were designed for (assumed to be twenty years).

The airport assessment of other major apron area condition is:

Wiggins Apron: Fair FedEx Apron: Fair Cargex Apron: Fair UPS Apron: Fair

APPENDIX E2

INVENTORY/EXISTING CONDITIONS

1.0 AIRSPACE AND AIR TRAFFIC CONTROL

1.1 AIRSPACE STRUCTURE

Airspace in the United States is classified as controlled, uncontrolled, or special use as described in **Table E2-1**. Controlled airspace describes airspace where air traffic control service is provided to IFR and VFR flights in accordance with the rules of each airspace classification. Controlled airspace includes Class A through Class E airspace, each of which has defined dimensions and altitudes within which air traffic control (ATC) service is provided to IFR flights, and may extend to VFR flights in accordance with the airspace classification. Uncontrolled airspace includes areas where ATC has neither authority nor responsibility to control aircraft, and is classified as Class G airspace. An additional type of airspace, is special use airspace. This classification consists of airspace where activities must be confined because of their nature, or where limitations are imposed upon aircraft operations that are not part of the confined activities. Special use or restricted airspace is clearly depicted on aeronautical charts.

TABLE E2-1 AIRSPACE CLASSIFICATIONS

Controlled Airspace

- Class A: Generally consists of the airspace between 18,000 feet mean sea level (MSL) up to and including Flight Level 600 (60,000 feet MSL), including the airspace above the U.S. coastal waters and within 12 nautical miles of the coast for the 48 contiguous states and Alaska, and designated international airspace. Class A airspace contains all high altitude airways and jet routes, and unless otherwise authorized all operations must be conducted under instrument flight rules (IFR). IFR flights are provided sequencing and separation from other IFR flights.
- Class B: Generally consists of the airspace from the surface up to as high as 10,000 feet MSL, and is found above the nation's busiest airports in terms of IFR operations or passenger enplanements. The configuration of each airport's Class B airspace is individually tailored to contain all instrument procedures once an aircraft enters the airspace. The airspace consists of a surface area and two or more layers of increasing width at higher altitudes (may take on an upside-down wedding cake appearance). Air traffic control clearance is needed to enter or operate within the area and aircraft separation services are provided to all aircraft. Air Traffic Control provides sequencing and separation from other flights for IFR and VFR flights. Airports with Class B airspace also have a Mode C Veil, which extends from the surface to 10,000 feet MSL, covers the airspace within 30 nautical miles of the Class B airport, and generally requires aircraft to have automatic pressure altitude reporting equipment with Mode C capability.
- Class C: Terminal airspace from the surface to 4,000 feet above airport elevation, which surrounds airports with control towers, radar approach control service, and a specified level of IFR operations or passenger enplanements. The configuration and shape for each airport is individually tailored, and usually is based around a surface that starts at the surface area and extends upward and within a 5 nautical mile radius, with a higher altitude circular segment with a 10 nautical mile radius that extends from no lower than 1,200 feet to 4,000 feet above the airport elevation. Aircraft entering or operating within the area must establish two-way radio communications with air traffic control, and Air Traffic Control provides sequencing and separation from other flights for IFR and VFR flights
- Class D: Terminal airspace that extends from the surface to 2,500 feet above the airport elevation and protects the airspace around airports that have an open and operational control tower. The configuration and shape is individually tailored for the airport, and the airspace is designed to contain instrument procedures. Aircraft establish two-way radio communications with the air traffic control tower prior to entering the airspace, and while operating within the airspace. Air Traffic Control separation services are provided for IFR flights, and

are not available for VFR flights.

Class E: If airspace is controlled and does not fall into one of the preceding categories it is Class E airspace. Class E airspace is made up of several sub-categories, and may extend from the surface or an indicated altitude to the next controlled airspace area (which includes the 18,000 feet MSL floor of Class A airspace). Class E areas that start at 700' to 1,200' AGL above the Class G airspace surrounding airports may serve as transitions to/from the terminal or en route environment. Class E airspace below 14,500 feet MSL is depicted on Sectional, Terminal and IFR Enroute Low Altitude charts. Air Traffic Control separation services are provided for IFR flights, and are not available for VFR flights.

Uncontrolled Airspace

Class G: Occupies all airspace which is not within Class A-E airspace, where Class G airspace is not controlled and generally includes all low level airspace from the surface to the bottom of Class E airspace. The range of Class G airspace extends from the surface to 700' to 1200' AGL, or to 14,500' MSL in areas which are removed from airports. Air traffic control may provide basic information services to aircraft in radio contact.

Special Use

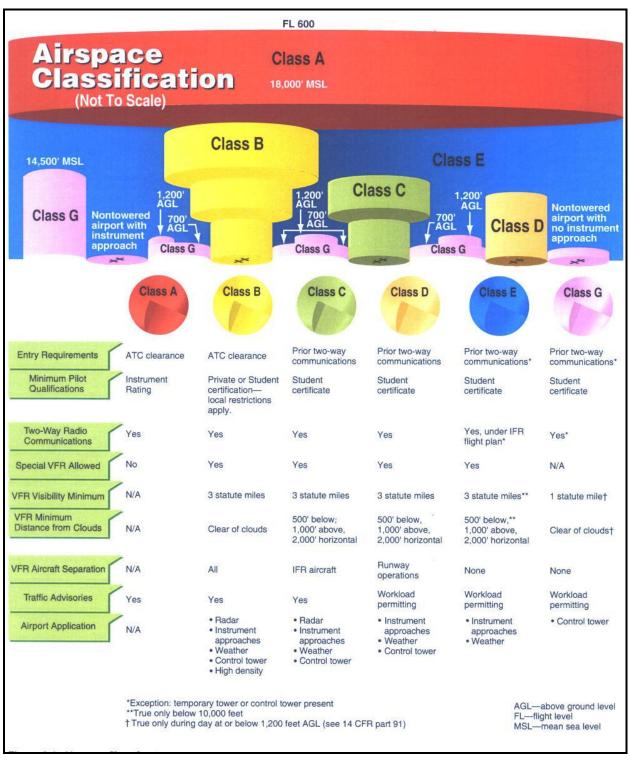
Area of special concern or restrictions due to unusual hazards (e.g., military activity, gunnery).

Source: McFarland Johnson.

Figure E2-1 addresses the shape of the airspace classifications which are discussed in **Table E2-1** and provides a summary of the different airspace characteristics.

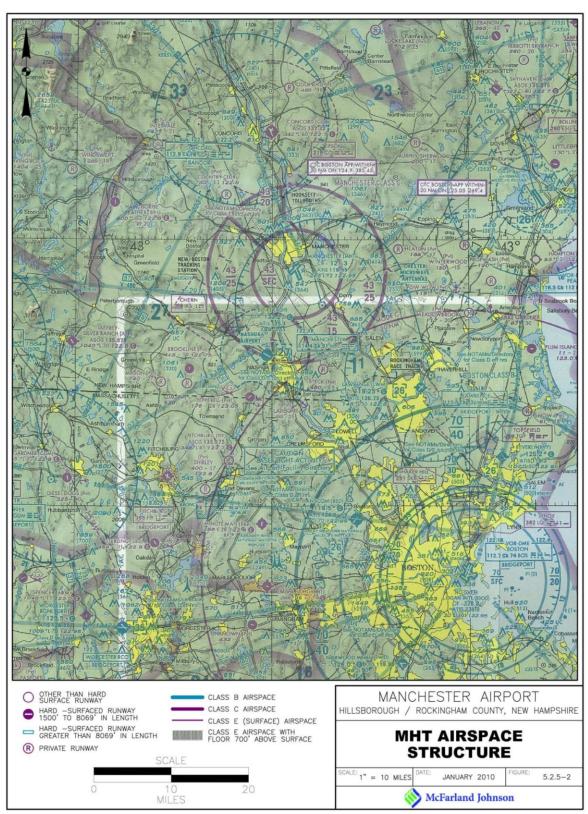
Manchester-Boston Regional Airport is within Class C airspace, where the airspace is depicted in **Figure E2-2**. The central Section extends outward 5 nautical miles from the center of Runway 17/35 in a circular shape, and rises from the airport surface elevation to 4,300 feet MSL (circular tube shape). The second Section extends from 5 to 10 nautical miles from the center of Runway 17/35, and includes elevations from 2,500 to 4,300 MSL. A third Section occurs within the second Section, is north-northwest of the airport, and includes elevations from 2,000 to 4,300 feet MLS. The fourth Section occurs within the second Section, is south-southeast of the Airport, and includes elevations from 1,500 to 4,300 feet MSL.

FIGURE E2-1: AIRSPACE CLASSIFICATION GRAPHIC AND OPERATIONAL SUMMARY



Source: http://www.faa.gov/library/manuals/aviation/instrument flying handbook/

FIGURE E2-2 MHT AIRSPACE STRUCTURE



Source: McFarland Johnson.

Manchester Class C airspace overlaps a small area of the Class E airspace associated with the instrument approaches for Concord Airport, located about 8.5 nautical miles north-northwest of Manchester-Boston Regional Airport. To the south, a small Section of the Manchester airspace, located about 8.5 nautical miles south-southwest of the Airport, is within the Mode C Veil for Boston Logan International Airport (BOS). The Mode C Veil boundary is located 30 nautical miles from BOS and extends from the surface to 10,000 feet MSL. Unless otherwise authorized, aircraft operating within the Mode C Veil must be equipped with an operating Mode C transponder having automatic pressure altitude reporting capability. The Mode C Transponder is used to identify aircraft and their flight information on a radar screen, where this information is provided to the air traffic controllers and displayed on the radar screens, and is essential to providing appropriate aircraft separation.

Essentially the entire New England region surrounding the Airport, from southeast Maine through Connecticut, which is not classified as Class B, C, or D airspace is classified as Class E airspace with a floor at 700' above the surface and a top elevation at the base of the overlying Class A airspace. IFR aircraft within the Class E airspace are provided separation from other IFR aircraft and participating VFR aircraft by Air Traffic Control. Air traffic control typically provides alerts of non-participating aircraft to IFR aircraft.

1.2 AIR TRAFFIC CONTROL

The Manchester-Boston Regional Airport's Air Traffic Control Tower (ATCT) is located in the Ammon Center, 1,600 feet south of the interSection of Runways 17/35 and 06/24. The ATCT operates twenty four hours per day, 365 days per year, and coordinates traffic located within the Airport Traffic Area, typically within five statue miles of the Airport, as well as for aircraft taxiing on the airport surface and aircraft requiring IFR clearances. Control of aircraft arrivals and departures prior to landing or immediately after takeoff are controlled by Boston Approach and Departure Control. Other than standard separation of participating aircraft, Boston Approach typically provides vectoring of IFR aircraft to final alignment with the runway prior to landing. Departure control will provide vectors for aircraft to an initial departure gate to join the en-route flight plan.

MHT operations are significantly influenced by its proximity to BOS. Air Carrier Flights through Manchester operate most often in three compass directions.

- West, (e.g. Chicago, Detroit, Cleveland, Minneapolis)
- Southwest (Las Vegas, Cincinnati, Memphis)
- South (e.g. New York Metro, Philadelphia, Charlotte, Orlando, Washington D.C., etc.)

Flights operating to the south are routed to avoid conflict with Boston airspace. As a result, air carrier turbojet flights to or from the south must initially fly to west or northeast fixes prior to joining southbound airways. Almost all arrivals enter the Manchester terminal area from the vicinity of the Keene VOR. Turbo prop operations are handled differently and are usually cleared on more direct routes, as they tend to fly at lower altitudes, thus avoiding the more congested jet routes.

1.3 PART 77 IMAGINARY SURFACES AND OBSTRUCTIONS

1.3.1 PART 77 SURFACES DEFINED

To protect the safety of aircraft operations, the FAA defines and regulates the airspace surrounding airports in Federal Aviation Regulation (FAR) Part 77, Objects Affecting Navigable Airspace. Airspace is defined and delineated by a set of geometric surfaces referred to as "imaginary surfaces," that extend outward and upward from airport runways. These imaginary surfaces identify the maximum acceptable height of objects beneath them. **Figure E2-3** shows a diagram of the various surfaces included as Part 77 surfaces at MHT, as further described below.

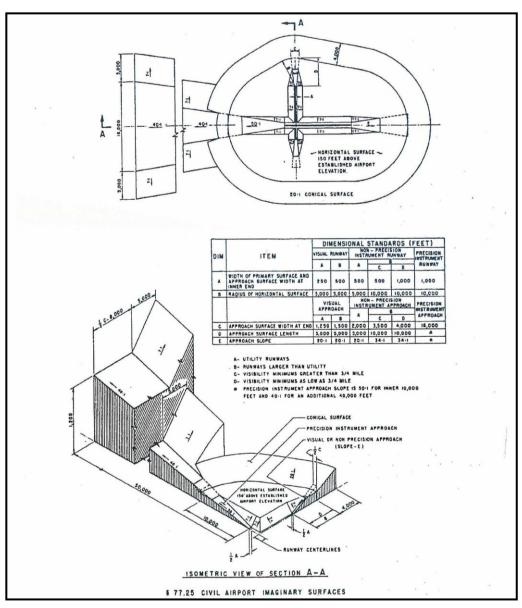


FIGURE E2-3
PART 77 SURFACE DIAGRAM

Source: Federal Aviation Regulation Part 77.

Surface slopes are expressed in terms of "run over rise" where a 40:1 slope, for example, represents a surface which rises one foot in elevation for every forty feet of horizontal distance (40 foot run for every 1 foot rise).

<u>Primary Surface</u> – The Primary Surface for all runways is 1000' wide with the edge parallel to runway centerline. The primary surface extends 200 feet beyond the runway end and is at the same elevation as the adjacent runway.

<u>Approach Surfaces</u> – The Precision Approach Surfaces for Runways 06, 17 and 35 start 200 feet from the end of the runway, have an initial width of 1,000 feet, and slope upward at 50:1 for the first 10,000 feet and then slope at 40:1 for an additional 40,000 feet. The slope is based on the distance along the extended centerline. The width of the approach surface at 2,700 feet from threshold is 1,750 feet. The Non-Precision Approach Surface for Runway 24 starts 200 feet from the end of runway, has an initial width of 1,000 feet, and slopes upward at 34:1. It should be noted that Part 77 does not recognize displaced thresholds, which explains why the surfaces start 200 feet from the end of the runway instead of 200' from the displaced threshold.

<u>Horizontal Surface</u> – The Horizontal Surface is defined by 10,000 foot arcs drawn from each runway end and connected with tangents. The surface elevation is 150 feet above the highest runway elevation.

<u>Transitional Surfaces</u> – The Transitional Surfaces extend upward from the edges of the primary and approach surfaces at a 7:1 slope, perpendicular to the runway centerline. They end at the Horizontal Surface elevation. Above the Horizontal Surface, the 7:1 transitional surfaces for precision approaches extend outward and upward from the 40,000 foot length of the 40:1 Approach Surfaces for a distance of 5,000 feet. The slope is measured perpendicular to the runway centerline.

<u>Conical Surface</u> – The Conical Surface starts at the edge of the Horizontal Surface and extends upward at a 20:1 slope for a 4,000 foot distance. The slope is measured perpendicular to the closest horizontal surface location.

APPENDIX E3

INVENTORY/EXISTING CONDITIONS

1.1 PUBLISHED INSTRUMENT APPROACHES AND TERPS SURFACES

1.2 INSTRUMENT APPROACHES

Manchester-Boston Regional Airport has an extensive and sophisticated group of instrument approaches. Approaches based on an FAA installed and maintained Instrument Landing System (ILS) are available to Runways 06, 17 and 35. ILS approaches provide precise vertical and horizontal course guidance which helps to line up the aircraft with centerline, and bring the plane down to the Decision Altitude and the corresponding Height Above Threshold along a defined glide path. The approach lights on ILS runways 17 and 35 assist in the early identification of the runway centerline, provide roll and distance information, and decrease the allowable visibility minimums. The Required Navigation Precision (RNP) vertical guidance approach to Runway 17 is a state-of-the-art approach, which is capable of using curved horizontal paths to the runway centerline, reducing aircraft separation, and decreasing aircraft flight time and fuel usage. **Table E3-1** shows the straight-in instrument approaches to MHT along with the applicable weather minimums. The first listed minimum is the "Height Above Threshold" (HATh) for vertical guidance approaches (ILS, LPV, RNP and VNAV/LNAV), which is also the Minimum Descent Altitude (MDA) above runway for non-vertical guidance approaches. The second minimum is the approach visibility (in statute miles) for values from 1 ½ to 2, and Runway Visual Range (RVR) in hundreds of feet for figures from 06 to 60.

TABLE E3-1 STRAIGHT-IN INSTRUMENT APPROACHES AT MHT

	Instrument	CAT A	CAT B	CAT C	CAT D
Runway	Approach Procedure	Minimums	Minimums	Minimums	Minimums
6	ILS	250-40	250-40	250-40	250-40
6	LOC (ILS localizer without glide slope)	596-50	596-50	596-1 1/2	596- 1 3/4
6	RNAV (GPS) LPV	269-50	269-50	269-50	269-50
6	RNAV (GPS) LNAV/VNAV	647-2 1/2	647-2 1/2	647-2 1/2	647-2 ½
6	RNAV (GPS) LNAV	576-50	576-50	576-1 1/2	576-1 ¾
24	RNAV (GPS) LNAV	638-50	638-50	638-1 3/4	638-2
17	ILS	200-18	200-18	200-18	200-18
17	LOC/DME (ILS localizer with DME, without glide slope)	411-24	411-24	411-40	411-40
17	RNAV (GPS) Y LPV	200-24	200-24	200-24	200-24
17	17 RNAV (GPS) Y LNAV/VNAV		543-1 ½	543-1 ½	543-1 ½
17 RNAV (GPS) Y LNAV		531-24	531-24	531-50	531-60
17 RNAV (GPS) Z RNP 0.11		377-40	377-40	377-40	377-40
17	RNAV (GPS) Z RNP 0.30	581-1 ½	581-1 1/2	581-1 1/2	581-1 ½
17 VOR/DME or GPS		771-50	771-60	771-2 1/4	771-2 1/2
35	ILS	200-18	200-18	200-18	200-18
35	LOC (ILS localizer without glide slope)	435-24	435-24	435-40	435-50
35	ILS (CAT II)	100-12	100-12	100-12	100-12
35	ILS (CAT IIIA)	RVR 07	RVR 07	RVR 07	RVR 07
35	ILS (CAT IIIB)	RVR 06	RVR 06	RVR 06	RVR 06
35	RNAV (GPS) LPV	200-24	200-24	200-24	200-24
35 RNAV (GPS) LNAV/VNAV		474-60	474-60	474-60	474-60
35 RNAV (GPS) LNAV		555-24	555-24	555-50	555-60
35	VOR	595-40	595-40	595-1 1/2	595-1 3/4

Source: Digital Terminal Procedures Publication at http://avn.faa.gov/index.asp?xml=naco/online/d_tpp
Note: An italicized designation is given to identify which approach the minimums refer to, such as when the approach plate for Runway 35 RNAV (GPS) includes three different approach types.

Localizer Precision with Vertical guidance (LPV) approaches use ground augmented GPS signals to function like an ILS. While they possess slightly less vertical signal accuracy than an ILS, the LPV approaches have the potential to obtain minimums as low as 200 feet and $\frac{1}{2}$ mile visibility. LNAV/VNAV instrument approaches use GPS signals for the horizontal course and a computer generated glide path for approach guidance based

on barometric pressure readings. LNAV also uses GPS satellite signals for lateral course guidance, and the approach uses a stepped descent process. The non-precision stepped descent process requires aircraft to stay at or above a specified altitude until they pass a specified "fix" location, after which, the pilot descends to a lower altitude. After the Final Approach Fix is reached, the aircraft may descend to the Minimum Descent Altitude and a landing may only be attempted if the pilot sees the runway end environment and a safe approach is possible. VOR approaches use a vertical stepped descent procedure similar to LNAV where VOR radials from a ground transmitter are used for horizontal guidance. The VOR signal is not as accurate as a GPS signal, however. Localizer approaches use a precise horizontal signal for runway alignment and a vertical stepped descent procedure.

While the Localizer, VOR, GPS and LNAV approaches at the Airport offer relatively high minimums compared to ILS and LPV approaches, the latter types of approaches provide instrument access to many types of aircraft that do not carry advanced instrumentation. The LPV approach appears to duplicate some of the instrument approach access offered by ILS, which provides an important back-up if the ILS glide slope or localizer is out of service for any reason.

Runway 24 is the only runway end at Manchester without a vertical guidance instrument approach. The existing non-precision approach has relatively high ceiling and visibility minimums, especially for Approach Category C/D business and commercial jets. Vertical guidance approaches such as ILS, LPV or RNP may provide lower ceiling and visibility minimums, and also improve approach safety through reduced pilot workload, positive vertical guidance during periods with reduced visual cues (IFR and night landings), and by supporting stabilized approaches.

Trees in the Runway 24 approach appear to present significant obstructions to a number of critical clearance surfaces for a vertical guidance instrument approach, including the Glidepath Qualification Surface (GQS) for a 3.1 degree LPV approach. The GQS obstructions might be remediated by a moderate displaced threshold on Runway 24 if tree cutting is not an option within a wetland and conservation area.

1.2.1 INSTRUMENT APPROACH RELATED WEATHER INFORMATION

Weather information is important to pilots, as it is a key determinant of which runway is optimally utilized (aircraft operate best into the wind). This is particularly true if the airport is operating below Visual Flight Rule (VFR) minimums due to a ceiling below 1,000 feet or visibility below three miles, and if an existing instrument approach is above or below applicable weather minimums.

Weather condition information at the Airport is provided by an on-airport Automated Surface Observation System (ASOS), and a Limited Aviation Weather Reporting Station (LAWRS). The Manchester ASOS is an automated weather reporting system which is owned and maintained by the Federal government, and can be accessed by telephone or by a radio capable of accessing the 119.55 frequency. The ASOS takes readings for temperature, dew point, sky condition, altimeter, wind direction and wind speed at the ASOS site. The ASOS issues time averaged weather results using a computerized human voice format. The ASOS visibility reading is calculated from light attenuation measurements, is stated in terms of statute miles (plus fractions), and is based on the night viewing of a moderate intensity light and daytime sighting of a dark object. The Manchester ASOS is located in the infield area between taxiways "A", "D" and "G", about 480 feet east of the airport terminal building.

LAWRS reports include cloud height, weather (rain, snow, etc.), obstructions to vision, temperature and dew point, surface wind, altimeter and pertinent remarks. The observer based reports supplement the ASOS. LAWRS visibility is based on the prevailing visibility around the airport, using lights at night and dark objects during the day, and is given in statute miles with fractions.

Runway Visual Range (RVR) is an important reporting device at the Airport and the touchdown results are directly used in 76% of the published instrument approach weather minimums. The RVR reports the calculated distance that a pilot can see HIRL lights or runway markers when the plane is on or near the surface, and are based on measurements of HIRL intensity, light attenuation and ambient light level. RVR reports sighting distance in hundreds of feet (RVR 12 is 1200 feet) and, has a maximum reading of RVR 60 (6000 feet). RVR is reported when the visibility is 1 mile or less, or the RVR reading is 60 (6000 feet) or less. RVR reports are included in ASOS and LAWRS weather announcements.

Since fog and snow impacts on runway sighting may vary along the length of the runway, several RVR are located along each runway. The three RVR on Runway 17/35 are located at the Runway 17 and 35 touchdown points (about 1,000 feet past landing threshold), and close to the runway mid-point, providing touchdown, mid-field and roll-out RVR for operations on both runways. The Category II and III ILS approaches to Runway 35 require touchdown point, midfield and departure end RVR. An RVR is provided at the touchdown points for Runways 06 and 24, and provides touchdown and roll-out RVR estimates for operations on both runways.

1.3 TERMINAL INSTRUMENT PROCEDURES (TERPS)

Final Approach Obstacle Clearance Surfaces – Instrument approach minimums and limitations are based on a number of obstacle clearance surfaces that apply to a specific approach type. Instrument Landing System (ILS), Localizer Precision with Vertical guidance (LPV), LNAV/VNAV, and Required Navigational Precision (RNP) approaches provide positive lateral and vertical guidance during the final approach segment, presenting the pilot with a defined target that will bring the aircraft to the approach decision point. The "Height Above Threshold" (HATh) decision point for vertical guidance approaches is based on the top elevation and location of objects that obstruct an Obstacle Clearance Surface (OCS). If the final approach segment surfaces are clear, the approaches may provide lowest possible minimums for the approach type if other criteria are met including the missed approach.

Non-precision approaches at the Airport without positive vertical guidance, such as VOR, LOC (localizer only), and LNAV (GPS lateral guidance without the benefit of WAAS improvements), depend upon stepped decreases in allowable altitude at defined fixes and base the Minimum Descent Altitude on a required clearance above the highest object in the final segment. Missed approach areas are also considered.

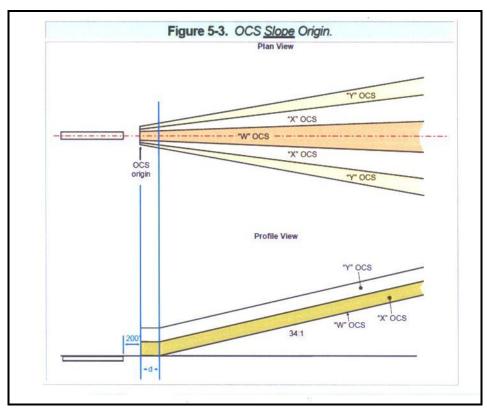
For ILS and LPV approaches, the final segment evaluation includes the W, X and Y surfaces, which are addressed in **Table E3-2** and **Figure E3-1**. The W, X and Y surfaces at MHT extend from 200 feet beyond the landing threshold to the interSection of the glide path with the intermediate approach altitude ("d"=0 on **Figure 5-3**), which may occur at a distance less than or greater than 50,200 feet (the distance used for planning purposes) from landing threshold. If the W, X and Y surfaces, as well as the missed approach and approach light plane surfaces are clear, Category I ILS and LPV approaches may obtain minimums as low as 200 feet HATh and ½ mile visibility with approach lights.

TABLE E3-2: TERPS W, X, AND Y FINAL APPROACH SEGMENT SURFACES

Surface	Initial Half Width At 200' From Landing Threshold	Half Width At 50,200'	Surface Slope
W	400' from centerline	2200' from centerline	(102/Glidepath Angle) slope Along extended runway centerline
Х	Ends at 700' from centerline	6076' from centerline	4:1 perpendicular to centerline starting at W surface edge
Y	Ends at 1000' from centerline	8576' from centerline	7:1 perpendicular to centerline starting at X surface edge

Source: FAA Orders 8260.3B (for ILS) and 8260.54A (for LPV).

FIGURE E3-1
W, X, AND Y FINAL APPROACH SEGMENT SURFACES



Source: FAA Order 8260.54A.

The W surface slope for Runway 17 ILS is different from the ILS approach to Runways 06 and 35, due to the glide path angles for each ILS approach. The Runway 06 and 35 W surfaces have a 34:1 slope (102/3.00), while the W surface for Runway 17 has a 32.91:1 slope (102/3.10) due to a 3.10 degree glide path angle.

For RNP approaches, the criteria is different from ILS/LPV due to increased reliance on GPS/WAAS signal accuracy at low RNP values, and the use of barometric pressure to generate a vertical guidance path. The RNP surfaces are rectangles centered on the approach course as shown in **Figure E3-2**, where the half-width

of the final segment rectangle is a function of the required approach RNP (2 x RNP), and the OCS starting slope location is a function of airport and approach variables.

FIGURE E3-2
RNP FINAL APPROACH SEGMENT SURFACES

Source: FAA Order 8260.52.

While the RNP OCS starts 200 feet from the landing threshold, the sloping Section generally starts at a distance D_{veb} from threshold, which is usually from 1500 feet to 3000 feet in length. The OCS slope is generally about 20:1. Objects within the initial zero slope area and above threshold may increase the HATh above 250 feet, which is the lowest possible HATh with RNP.

For the RNP 0.11 approach to Runway 17, the OCS half-width from centerline is 0.22 nautical miles (RNP is always expressed in terms of nautical miles), and the half width of the RNP 0.30 approach is 0.6 nautical miles (3645.6 feet) from centerline. While the RNP approach to Runway 17 results in higher approach minimums than the ILS or LPV approaches, RNP provides benefits in terms of closer aircraft spacing within the airspace, which can reduce delays and decrease fuel use.

For the non-precision approaches based on LOC, VOR and LNAV, the width of the final approach segment surfaces at the landing threshold and in the approach are considerably larger than ILS, LPV or RNP, and the Minimum Descent Altitude is determined by adding 250 feet (plus modifiers) to the highest object elevation in the area. Thus, the highest point on objects which rise to a relatively high elevation but which are below the W, X, and Y surfaces may significantly raise non-precision minimums but result in relatively low ILS or LPV HATh.

<u>TERPS Paragraph 251 Visual Area</u> – The lowest visibility that an instrument approach may obtain, and the ability to use the approach at night, is based on the Visual Area criteria set forth in Paragraph 251 of FAA Order 8260.3B. The Visual Area surfaces at MHT start 200 feet from the landing threshold, where they have an 800 foot total width, and the surface extends out to the Decision Altitude location. The total surface width for instrument approaches lined up with runway centerline is a function of distance from start, and equals 800 feet + (0.276 x the distance from surface start).

The criteria associated with the various Visual Area surface slopes are:

- If the 34:1 slope Visual Area surface is penetrated, the visibility minimums may not be less than ¾ mile. If the 34:1 slope surface is clear, visibility minimums less than ¾ mile may be approved with the prescribed runway and approach lighting.
- If the 20:1 slope Visual Area surface is clear, the visibility minimums may be less than 1 mile.
- If the 20:1 slope Visual Area surface is penetrated, visibility minimums cannot be less than 1 mile, and night authorization for the approach may be withheld unless the obstructions are removed, marked and lighted, or FAA approves remediation via a visual glide slope.
- If the number of 20:1 penetrations is unusually high, FAA may withhold night authorization even if lighting/marking and a visual glide slope are in place.

For Runways 06 and 35 the GQS slope is 28.64:1, and the slope for Runway 17 is 27.72:1. The GQS for Runways 06 and 17 starts at the runway threshold elevation, while the Runway 35 GQS starts 1 foot above the threshold elevation due to a 51 foot Threshold Crossing Height (TCH). The GQS starting elevation is raised one foot for every TCH foot above 50.

The GQS starting width is 200 feet greater than the runway width, for a 350 feet total starting width for all runways at MHT, and the DA location width of the GQS is equal to the W surface width at the DA:

- 1063.12' GQS width at Runway 06 CAT I ILS DA
- 986.35' GQS width at Runway 17 CAT I ILS DA
- 990.31' GQS width at Runway 35 CAT I ILS DA
- 852.92' GQS width at Runway 35 CAT II ILS DA

GQS obstructions may be remediated in some cases by increasing the TCH above 50 feet. Changes to the TCH, up to 60 feet above threshold, may be used without glidepath angle modifications when obstructions are 10 feet or less above the GQS.

TCH modifications can also be used in conjunction with the application of glidepath angles above 3 degrees (3 degrees is the standard starting glidepath angle), since increases in the approach angle change the GQS

slope. It is important to note that increasing the TCH will reduce the available landing length, and 60 feet is the normal TCH maximum without a special FAA waiver. Glidepath angles above 3.1 degrees limit the aircraft which are authorized to use vertical guidance approaches in accordance with the following guidelines contained in FAA Orders 8260-3B and 8260-54A:

- Glidepath angles up to 3.1 degrees: May be used by Approach Categories A-D
- Above 3.1 degrees and up to 3.6 degrees: Approach Categories A-C (Category D not authorized)
- Above 3.6 degrees and up to 4.2 degrees: Approach Categories A-B
- Over 4.2 degrees: Approach Category A

Since MHT is regularly used by aircraft in Approach Categories C and D, care should be taken when glidepath angle changes from 3 degrees are considered to obtain clearances over obstructions that cannot be removed.

<u>Precision Obstacle Free Zone</u> – The Precision Obstacle Free Zone (POFZ) applies when the weather conditions for a vertical guidance instrument approach are less than 250 feet HATh, or the prevailing visibility is less than ¾ mile (or RVR 4000). The POFZ extends from the landing threshold to 200 feet out, and has a total width of 800 feet. Taxiing, holding and parked aircraft, and ground vehicles within the POFZ are considered to be obstacles unless positive control will allow the surface to be cleared when aircraft are within 2 nautical miles of the threshold and the reported minimums are below 300 feet or ¾ mile (RVR 4000).

The POFZ is considered clear if the tail and/or fuselage of a taxing aircraft do not penetrate the zone. The wing of aircraft holding on a perpendicular taxiway, while they wait for runway clearance, may penetrate the POFZ. If the POFZ is penetrated when an aircraft is on its final approach and is within 2 nautical miles, the lowest approach minimums are 300 feet and $\frac{3}{4}$ mile.

<u>Departure Surface</u> – Departure minimums are published for each runway end at MHT, and are derived from the departure surface analysis. If the departure surface is clear of obstructions, the runway end may obtain standard departure minimums which consist of 1 mile visibility for two engine aircraft, and ½ mile visibility for aircraft having more than two engines. If the departure surface has obstructions, the departure minimums are based on the ceiling and visibility which will allow pilots to see and avoid obstacles. Alternate departure minimums may also be published that allow the use of the standard departure minimums if a specified aircraft climb gradient may be obtained, where the needed climb gradient is sufficient to obtain adequate clearance over obstacles.

The Initial Climb Area (ICA) departure surface at MHT starts at the departure end of runway where it has a 1,000 foot width, and the width reaches 7,512.36 feet at a distance of 2 nautical miles (12,152.23 feet). The 40:1 surface slope which is depicted in TERPS is associated with a 200 foot per nautical mile climb gradient, and the slope becomes steeper if the minimum climb gradient is increased to obtain the required clearance over obstacles.

The departure obstructions for Runways 17 and 35 at MHT require that specified ceiling and visibility minimums be met to allow pilots to see and avoid the obstacles, and alternate departure minimums are published that require a climb gradient above 200 feet per nautical mile. Runway 06 and 24 departures may use standard departure minimums.

The published departure minimums at MHT are shown in **Table E3-3**:

TABLE E3-3 MHT DEPARTURE MINIMUMS

		Required Minimum Climb Gradient with	
Departure Runway	Departure Minimums	Standard Departure Minimums	
Runway 35	300 feet and 1 ½ miles	253 feet per nautical mile	
Runway 17	300 feet and 1 ½ miles	277 feet per nautical mile to 500 foot MSL	
Runway 24	Standard		
Runway 06	Standard		

Source: http://avn.faa.gov/d-tpp/0910/NE1TO.PDF

Lower than standard departure minimums, which may range from an RVR of 1600 feet to an RVR equal to or lower than 600 feet, must be authorized by the FAA for individual airline certificate holders, by aircraft type, and for other operators. The general runway requirements for lower than standard departure minimums for Part 121 Airplane Operations are shown in **Table E3-4**. The required takeoff aids may include operative centerline lights, operative high intensity edge lights, serviceable centerline markings and one or more RVR. If available, RVR reports from specified locations along the departure runway must be used for takeoff operations in place of prevailing visibility or ASOS/AWOS estimates.

TABLE E3-4
LOWER THAN STANDARD DEPARTURE MINIMUMS CRITERIA

Operative or Serviceable Runway Facilities and other Specified Requirements	RVR Minimum in Feet or Visibility
Runway centerline marking (day only) or HIRL or centerline lights	RVR 1600, or Runway Visibility Value of ¼ mile if no RVR
Runway centerline marking (day only) or HIRL or centerline lights, with two or more operative RVR reporting systems	RVR 1200/1200/1000
HIRL with centerline marking or centerline lights, with two or more operative RVR reporting systems	RVR 1000/1000/1000
HIRL and centerline lights, with two or more operative RVR reporting systems	RVR 600/600/600
HIRL and centerline lights, with two or more operative RVR reporting systems	RVR 500/500/500 requires appropriate surface movement and guidance control procedures (SMGCS)
HIRL and centerline lights, front course guidance from a localizer meeting criteria, 10 knot maximum crosswind component, taxiway routing with taxiway centerline lighting or other appropriate guidance, Approved Head-Up Display (HUD) aircraft takeoff guidance system, and three operative RVR reporting systems	RVR 300/300/300 requires appropriate surface movement and guidance control procedures (SMGCS)

Source: FAA Notice 8900.38.

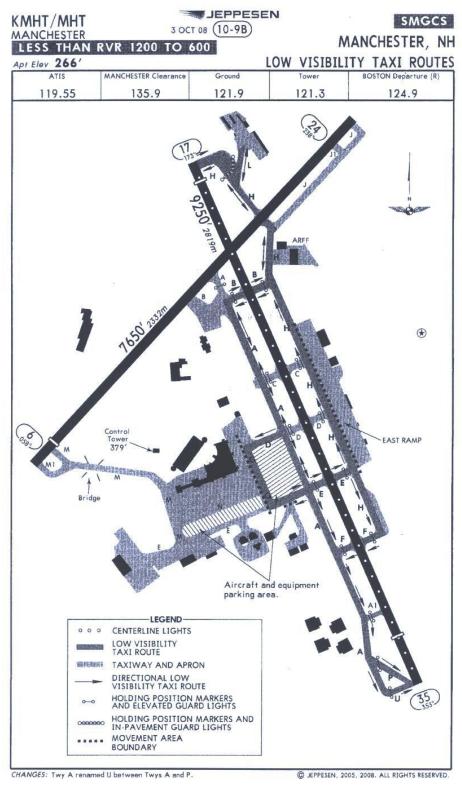
Notes: 1. Appropriate pilot training and aircraft equipment is needed for each RVR.

- 2. When RVR is expressed as a/b/c, "a" refers to beginning of takeoff roll or touchdown zone RVR, "b" refers to mid-field RVR (if installed), and "c" refers to end of runway or rollout RVR (if authorized).
- 3. RVR readings are in hundreds of feet (an RVR of 1,200 feet is stated as RVR 12 in the reports).

MHT has lower than standard takeoff minima of RVR 500 on Runways 17 and 35, and RVR 1000 on Runways 06 and 24. The RVR 1000 departure minimums on Runway 06/24 are higher than would normally be associated with a runway served by HIRL, centerline lights and touchdown zone/roll-out RVR.

In accordance with the Surface Movement Guidance Control System (SMGCS) plan which was prepared by the airport and is dated March 2009, Part 121 airline takeoffs and departures are limited to weather conditions where the RVR is 600 or higher, and Part 121 operations are restricted to Runway 17/35 when the RVR is below 1200. The SMGCS plan is required for Part 121 airline operations in conditions below RVR 1200, and identifies the special ground facilities, operating procedures and designated taxi paths which must be adhered to. The following **Figure E3-3** identifies the low visibility taxi routes at the airport, including the holding position markers and elevated or in-pavement Guard Lights.

FIGURE E3-3 LOW VISIBILITY TAXI ROUTES



Source: Jeppesen Approach Plates.

APPENDIX E4

INVENTORY/EXISTING CONDITIONS

1.0 HISTORICAL CARGO ACTIVITY

Air cargo is an important part of the business of airports. Airlines carry cargo and mail to the Airport in the belly of scheduled passenger flights ("belly cargo"), and all-cargo carriers provide both scheduled and ondemand flights. **Table E4-1** shows the cargo landed weight at Manchester-Boston Regional Airport for the past five years.

TABLE E4-1
TOTAL CARGO WEIGHT AT MHT

Year	Total Weight (lbs)
2004	162,080,948
2005	155,503,955
2006	176,382,468
2007	193,487,647
2008	178,155,941
2009	161,670,797

Source: MHT Activity Reports.

Cargo is generally separated into two categories: freight and mail. **Table E4-2** displays the total weight of mail handled at MHT over the past five full years and 2009 year to date.

TABLE E4-2
TOTAL MAIL HANDLED AT MHT

Year	Mail (000 pounds)
2004	5,767
2005	3,800
2006	503
2007	445
2008	208
2009	900

Source: MHT Activity Reports.

Five companies currently provide all-cargo flights at MHT: FedEx, Mountain Air Cargo, Telford Aviation, UPS and Wiggins Airways. Cargo flown by Mountain Air Cargo is reported as part of FedEx totals and Telford Aviation's cargo is reported as part of the UPS total **Table E4-3** shows the cargo trends over the past two full calendar years, by carrier, for airlines serving Manchester-Boston Regional Airport.

TABLE E4-3 CHANGES IN CARGO WEIGHT, 2009 VS. 2008

Airline/Year	2009	2008	% Change
Atlantic Southeast	153	8,109	-79.47%
Comair	42	11,195	-57.92%
Delta Airlines	0	381	100.00%
Total DL & Affiliates		19,685	-70.22%
Meseba Aviation	421	9,326	4257.94%
Northwest Airlines	9,300	59,705	-35.20%
Pinnacle Airlines	0	25	-99.35%
Total NW & Affiliates		69,056	-28.22%
Air Wisconsin	12,879	3,082	-32.55%
Mesa Airlines	0	4,121	100.00%
Piedmont Airlines	6	1,416	19.09%
US Airways	5,823	82,505	-39.96%
Total US & Affiliates		91,124	-36.62%
Continental Express	7,192	3,937	100.00%
Southwest Airlines	1,544,084	1,690,752	19.48%
United Airlines	0	44,914	-27.95%
Total Belly Cargo	1,579,900	1,919,468	-17.69%
ASTAR (DHL)	0	3,398,668	-6.92%
Air Now	1,069,649	1,511,139	-18.92%
FedEx	87,446,085	94,459,635	-11.55%
UPS	67,477,097	72,316,254	-3.24%
Wiggins Airways	4,098,066	4,550,777	-1.97%
Total All-Cargo Carriers	160,090,897	176,236,473	-9.16%
Total Cargo	161,670,797	178,155,941	-9.25%

Source: MHT Activity Reports and Analysis.

Table E4-4 displays the cargo enplaned and deplaned at MHT for the period September 2008 through August 2009.

TABLE E4-4 AIR CARGO TOTALS BY COMPANY (9/08 – 8/09)

	Enplaned	Deplaned		% Share
Company	Pounds	Pounds	Total Pounds	of Total
Air Now	782,763	432,646	1,215,409	0.7
Air Wisconsin	5,148	3,533	8,681	
(US Airways Express)	3,140	3,333	0,001	0.0
ASTAR Air Cargo-DHL	651,356	557,615	1,208,971	0.7
Atlantic Southeast Airlines (Delta Connection)	401	1	402	0.0
Comair				0.0
Continental Express	1,666	6,712	8,378	0.0
Delta Airlines				0.0
Federal Express Corporation	41,170,133	46,801,316	87,971,449	53.5
Mesa Airlines Inc.				
(USAir Express)				0.0
Mesaba Aviation, Inc.	357	2,595	2,952	
(Northwest)	337	2,595	2,932	0.0
Northwest Airlines, Inc.	2,022	6,053	8,075	0.0
Piedmont Airlines, Inc.	0	154	154	
(USAir Express)	0	154	154	0.0
Pinnacle Airlines, Inc.	0	25	25	
(Northwest Airlink)	0	25	23	0.0
Regional/Elite Airline Services	320	2,196		0.0
Southwest Airlines, Inc.	831,800	941,064	1,772,864	1.1
United Airlines, Inc.				0.0
United Parcel Services, Inc.	32,057,787	35,818,987	67,876,774	41.3
US Airways, Inc.	3,967	12,007	15,974	0.0
Wiggins Airways	2,711,310	1,733,508	4,444,818	2.7
Totals	78,219,030	86,318,412	164,537,442	

Source: MHT ACTIVITY REPORT, September, 27, 2009.

During the September, 2008-August, 2009 period the all-cargo carriers used a wide variety of aircraft for their operations. **Table E4-5** provides the aircraft, its gross landing weight, and the number of landings by each aircraft type for MHT's all-cargo carriers.

TABLE E4-5
ALL-CARGO AIRCRAFT LANDINGS DURING 9/08-8/09 PERIOD

	Aircraft	FAA Gross	
Company	Make/Model	Landing Weight	Landings
	E-110/0		
Air Now	(Bandeirante)	12,500	321
		Total Air Now	321
ASTAR Air Cargo – DHL	B-727/200	161,000	24
(Terminated operations 12/08)	B-727/A	164,000	29
		Total DHL	53
Federal Express Corporation	A-300/0	308,650	54
, and a second	A-300-60/0	308,700	505
	A-310/0	267,900	2
	DC-10/0	436,000	3
	DC-10/10	375,000	4
	DC-10/30	424,000	4
	MD-10-10/0	375,000	111
		Total FedEx	683
United Parcel Services, Inc.	A-300/0	315,920	404
Officed Farcer Services, Inc.	B-727/100	142,500	2
	B-757/200	210,000	251
	B-767/300	326,000	19
	DC-8/71	258,000	7
	DC-8/73	275,000	9
	20 0/10	Total UPS	692
		101411 01 0	
Wiggins Airways	B-100/0 (King Air)	10,500	90
	B-99/0 (Beech 99)	10,900	2,012
	C-208/B		
	(Caravan)	8,500	372
		Total Wiggins	2,474

Sources: MHT Cargo Detail Spreadsheet (9/2009).

UPS flights arrive and depart for Louisville, KY. FedEx aircraft fly between Manchester and Memphis, TN and Indianapolis, IN. The smaller carriers generally provide feeder services for the major carriers, carrying cargo between MHT and communities in New York, New England and Canada.

APPENDIX E5

INVENTORY/EXISTING CONDITIONS

1.0 AIRPORT ZONING

The Airport property lines fall within two municipalities: the City of Manchester and the Town of Londonderry, as shown in **Figure E5-1**. The Airport property within the City includes most of Runway 06/24, and the northern third of Runway 17/35 plus various taxiways, aprons and hangars on the north side of the airport. Airport property within the Town of Londonderry includes the Runway 06 threshold area, the central and southern terminal areas, the southern two-thirds of Runway 17/35 and associated aprons and taxiways.

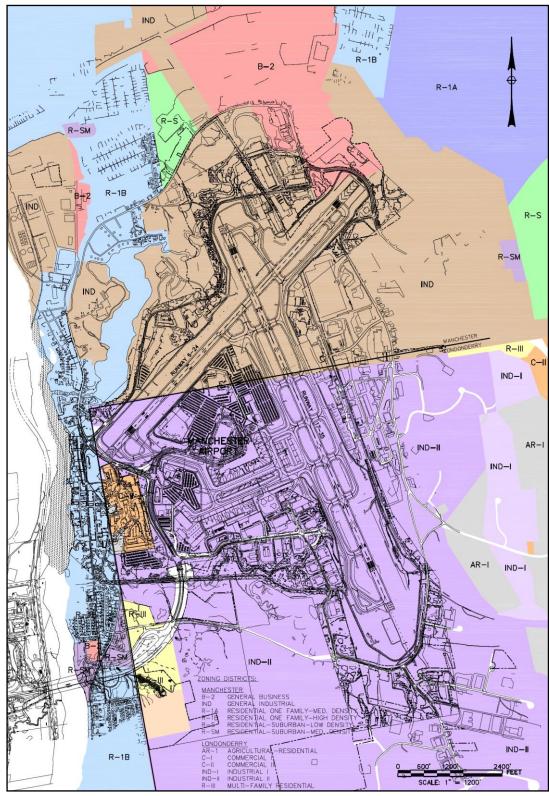
The Airport property within the City of Manchester is zoned IND (industrial), and the property within the Town of Londonderry is zoned IND-II (industrial). The uses permitted within the City of Manchester's IND zone, and the Town of Londonderry's IND-II zone, are shown in **Table E5-1**.

TABLE E5-1 AIRPORT ZONING

Applicable Municipality	Zoning District	Permitted Uses
City of Manchester	IND - General Industrial/ Industrial Park	Veterinary Hospital, Construction, Manufacturing, Transportation/Communication/Utilities, Sales and Service, Medical Services, Schools, Child Care Facilities, Municipal Facilities, Ambulance and Emergency Services.
Town of Londonderry	IND-II - Industrial II	Public Facilities, Excavation Business, Heavy and Light Manufacturing, Motor Vehicle Repair and Maintenance, Professional Office, Research Laboratory, Business Uses.

Source: McFarland Johnson.

FIGURE E5-1 AIRPORT ZONING



Source: McFarland Johnson.

1.1 ZONING AND LAND USES ADJACENT TO THE AIRPORT

There are a large number of land-use zones applicable to the areas surrounding the Airport in the City of Manchester, Town of Londonderry and the Town of Bedford. **Figure E5-2** shows a map of the City of Manchester zoning areas. **Table E5-2** shows the applicable zones and permissible uses within the City of Manchester, while **Table E5-3** shows the overlay district zones and purpose. Zoning and overlay district information for the Town of Londonderry is shown in **Tables E5-4** and **E5-5**, and **Table E5-6** shows the zoning districts within the Town of Bedford. **Figures E5-3** and **E5-4** shows the zoning district and applicable overlay districts for the Towns of Londonderry and New Bedford, respectively.

The City of Manchester Zoning Map as shown in **Figure E5-2** also includes ten overlay districts, where the districts are identified as to purpose in **Table E5-2**. Three of the district overlays apply to the airport. The overlay districts are superimposed upon the base districts and the overlay district provisions apply in addition to the base district provisions.

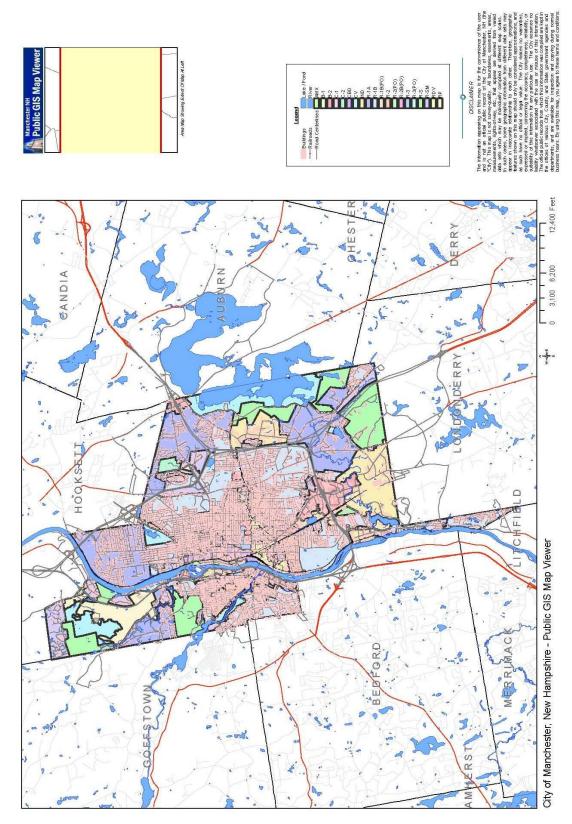
The Town of Londonderry zoning map is shown in **Figure E5-3**, and information on the zoning codes and permitted uses is provided in **Table E5-3**. The zoning codes include an Airport District, which provides standards for certain airport related use and structures that are not compatible with generally applicable commercial and industrial standards. The general standards within the Town of Londonderry Airport District provide criteria for building setbacks, a maximum building height of 65 feet for structures (exceptions: terminal building, airport parking garage and aircraft control tower), storage areas, sewage and waste disposal, curb and gutter, sidewalks, electrical power, and parking standards. Proposed airport development within the Airport District must meet the standards of the Town Site Plan Regulations for surface water drainage control, and a permit application must be submitted to the Town engineer simultaneously with submittal to the state and/or federal agencies having jurisdiction over the development.

The Town of Londonderry overlay districts and permitted uses are identified in **Tables E5-4 and E5-5**, where two of the overlay districts pertain to the airport.

The Town also includes a Historic District which currently includes five lots which are defined in the Zoning Ordinance. The Historic District is superimposed upon other established districts, where uses permitted in underlying districts are permitted within the Historic District. The purpose of the Historic District is to safeguard and preserve the heritage of the Town for the benefit of residents and businesses.

The Town of Londonderry Northwest Small Area Plan, which was published and adopted by the Town during September, 2009, includes three airport related overlay districts which are shown in **Figure E5-4**.

FIGURE E5-2 ZONING MAP – CITY OF MANCHESTER



Source: http://208.82.76.123/pubgis/mainScreen.asp?MFHeight=949

TABLE E5-2 CITY OF MANCHESTER ZONING DISTRICTS

Zoning Code	Permitted Uses
R-S – Residential-Suburban District, Low Density	Single Family Residences, Transportation/Communication/Utilities, Agricultural, Essential Public Services And Utilities, Schools, Places of Worship, Cemeteries, Municipal Facilities.
R-1A – Residential One Family District, Medium Density	Single Family Residences, Schools, Municipal Facilities.
R-1B – Residential One Family District, High Density	Single Family Residences, Schools, Municipal Facilities.
R-2 – Residential Two Family District	Single and Two Family Residences, Schools, Municipal Facilities.
R-SM – Residential Suburban Multifamily District	Single and Multiple Family Residences, Elderly Housing And Assisted Living, Schools, Places of Worship, Cemeteries, Municipal Facilities.
R-3 – Urban Multifamily District	Single and Multiple Family Residences, Congregate Housing, Elderly Housing And Assisted Living, Congregate Housing, Schools, Places of Worship, Cemeteries, Municipal Facilities.
B-1 – Neighborhood Business District	Single and Multiple Family Residences, Bed & Breakfast, Transportation/Communication/Utilities, Retail Trade, Manufacturing, Medical Services, Sales and Service, Schools, Museums and Libraries, Child Care Facilities, Places of Worship, Cemeteries, Municipal Facilities.
B-2 – General Business District	Dwellings In Upper Stories With Commercial First Floor, Veterinary Hospital, Transportation/Communication/Utilities, Manufacturing, Sales and Services, Retail Trade, Medical Services, Schools and Colleges, Lodging and Meeting Places, Child Care Facilities, Places of Worship, Cemeteries, Municipal Facilities, Ambulance and Emergency Services
CBD – Central Business District	Single Family Residences, Dwellings In Upper Stories With Commercial First Floor, Manufacturing, Medical Services, Sales and Service, Retail Trade, Schools and Colleges, Child Care Facilities, Lodging and Meeting Places, Places of Worship, Municipal Facilities, Ambulance and Emergency Services.
RDV – Redevelopment District, Mixed Use	Single and Multiple Family Residences, Veterinary Hospital, Construction, Manufacturing, Transportation/Communication/Utilities, Retail Trade, Sales and Service, Lodging and Meeting Facilities, Child Care Facilities, Schools, Medical Services, Ambulance and Emergency Services.
IND – General Industrial/ Industrial Park	Veterinary Hospital, Construction, Manufacturing, Transportation/Communication/Utilities, Sales and Service, Medical Services, Schools, Child Care Facilities, Municipal Facilities, Ambulance and Emergency Services,
AMX – Amoskeag Millyard Mixed Use District	Manufacturing, Transportation/Communication/Utilities, Retail Trade, Sales and Services, Medical Services, Lodging and Meetings, Schools and Colleges, Child Care Facilities, Ambulance and Emergency Services, Municipal Facilities

TABLE E5-2 (CONTINUED) CITY OF MANCHESTER ZONING DISTRICTS

Zoning Code	Permitted Uses
C-1 – Civic-Institutional District	Single and Multiple Family Residences, Congregate Housing, Transportation/Communication/Utilities, Nursing Homes, Medical Services, Sales and Service, Schools and Colleges, Places of Worship, Municipal Facilities
C-2 – Civic-Hospital District	Congregate Housing, Communications, Hospitals, Nursing Homes, Medical Offices, Sales and Service, Medical Services, Schools, Places of Worship, Ambulance and Emergency Services, Municipal Facilities
RP – Research Park District	Manufacturing, Research and Development, Telecommunications, Medical and Dental Labs, Vehicle Parking Garage and Lots, Child Care Facilities, Municipal Facilities.
CV – Conservation District	Agricultural, Municipal Facilities

Source: Zoning Ordinance, City of Manchester, NH February 7, 2001.

TABLE E5-3 CITY OF MANCHESTER OVERLAY DISTRICTS

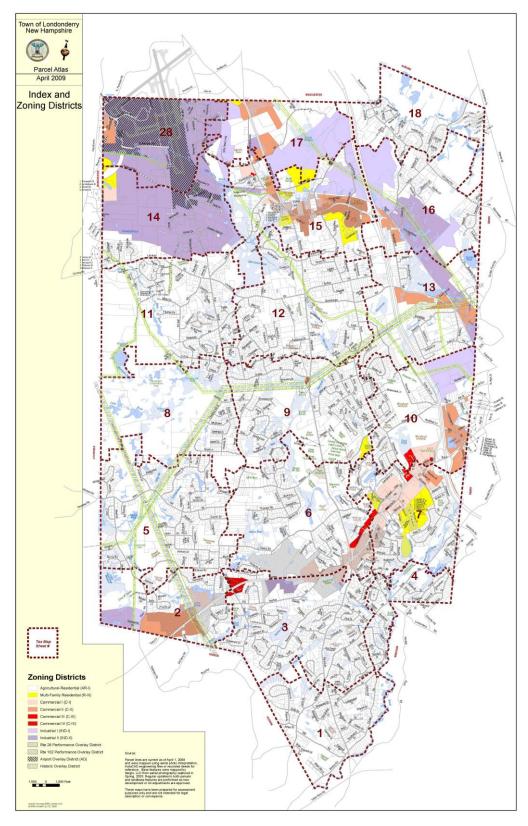
Overlay District	Purpose
1. Floodplain (F) Overlay	Reduce hazards of floods upon public health, safety, and welfare; protect floodplain occupants from a flood that is or may be associated with their land use; protect public from extraordinary financial expenditures for flood control and relief; protect capacity of floodplain areas to absorb, transmit and store runoff.
Residential- Professional Office District (R-PO) Overlay	Preserve concentrations of large, architecturally significant, older residential structures within a residential district by allowing them to be converted and maintained as low-intensity professional buildings compatible with surrounding neighborhoods.
Amoskeag Millyard Historic District Overlay	To preserve the structures and areas of historic or architectural value, which does not prohibit demolition, new construction or alterations but insures that the unique character of the Millyard is preserved. Preventing the irretrievable loss of historic or architecturally significant buildings and their unique characteris is important to the economic well-being of the City. This district is superimposed over the entirety of the Amoskeag Millyard Historic Mixed Use District (AMX).
Amoskeag Corporation Housing Historic District Overlay	Protect an area of unique character and architecture which can contribute significantly to the attractiveness and vitality of downtown Manchester. This overlay is intended to regulate the exterior appearance of existing and proposed structures, and to restrict activities which might alter the use and appearance of exterior spaces. This district is superimposed over the entirety of the Amoskeag Millyard Historic Mixed Use District (AMX).

TABLE E5-3 (CONTINUED) CITY OF MANCHESTER OVERLAY DISTRICTS

Overlay District	Purpose
5. Airport Navigation Hazard Overlay	To maintain reasonable visibility and navigational control in the vicinity of Manchester Airport by precluding buildings, structures, trees or other intrusions from penetrating the airspace reserved for landings and takeoffs at the Airport. The overlay is also intended to preclude the establishment of uses, structures or other activities which would impair the aerial approach to the Airport by creating electrical impulses or disturbances which interfere with radio aids, communications and lights that may result in glare in the vision of pilots or be confused with Airport lights.
6. Airport Approach Overlay District	To prevent the penetration of buildings, structures, trees or other intrusions into airspace reserved for use of aircraft landing or taking of at the Manchester Airport. The overlay provides a review and approval procedure which places supplemental controls on the height of structures or natural growth along an imaginary inclined surface. The approach overlay district boundaries are based on the ultimate future expansion and orientation of runways planned for the Airport.
7. Airport Noise Overlay District	To avoid the establishment of land uses in the vicinity of Manchester Airport that are incompatible with the noise levels generated by the take off and landing of aircraft, and to allow other uses to be established which may be compatible if soundproofing standards are integrated into new building construction. The district is also intended to reduce future public costs for land acquisition and noise mitigation by identifying and precluding the establishment of incompatible uses, and to require soundproofing for compatible new development that may be affected by Airport noise.
8. Arena Overlay District	To develop an area that is compatible with and complimentary to the Civic Center. This can be accomplished by creating an area which is pedestrian oriented; discourages auto intensive uses, promotes a higher quality of design including signage; and ensuring compatible land uses.
Manchester Landfill Groundwater Management Zone (ML-GMZ)	To protect public health by restricting groundwater use. Pumping of groundwater from any well, trench, or other structure for residential, irrigation, agricultural or industrial purpose is prohibited in most cases.
Lake Massabesic Protection Overlay District (LMPOD)	To protect the Lake Massabesic drinking water supply.

Source: Zoning Ordinance, City of Manchester, NH February 7, 2001.

FIGURE E5-3
TOWN OF LONDONDERRY ZONING MAP



Source: http://www.londonderrynh.org/planning/zoningmap012010.pdf

TABLE E5-4 TOWN OF LONDONDERRY ZONING DISTRICTS

Zoning Code	Permitted Uses
AR-1 Agricultural-Residential	Agriculture, Single and Multiple Family Residences, Elderly Housing, Public Facilities, Civic Uses, Bed & Breakfast, Excavation Business, Cemetery, Religious Facilities.
R-III Multi-family –Residential	Agriculture, Single and Multiple Family Residences, Elderly Housing, Assisted Living Facilities, Nursing Homes, Public Utilities.
C-I Commercial I	Assisted Living Facilities, Elderly Housing, Nursing Homes, Excavation Business, Public Facilities, Civic Uses, Business Uses, Religious Facilities, Business Center Development, Professional Office.
C-II Commercial II	Assisted Living Facilities, Elderly Housing, Nursing Homes, Excavation Business, Public Facilities, Civic Uses, Business Uses, Religious Facilities, Business Center Development, Professional Office, Hotels and Motels, Light Manufacturing, Research Laboratory.
C-III Commercial III	Assisted Living Facilities, Elderly Housing, Nursing Homes, Group Child Care, Excavation Business, Business Uses, Religious Facilities, Business Center Development, Professional Office, Private Schools.
C-IV Commercial IV	Elderly Housing, Business Uses, Religious Facilities, Business Center Development, Professional Office, Business Uses.
IND-1 Industrial I	Public Facilities, Excavation Business, Light Manufacturing, Professional Office, Research Laboratory, Business Uses.
IND-2 Industrial II	Public Facilities, Excavation Business, Heavy and Light Manufacturing, Motor Vehicle Repair and Maintenance, Professional Office, Research Laboratory, Business Uses.
AD Airport District	Public Facilities, Aeronautical Facilities, Excavation Business, Light and Heavy Manufacturing, Professional Office, Research Laboratory, Business Uses.

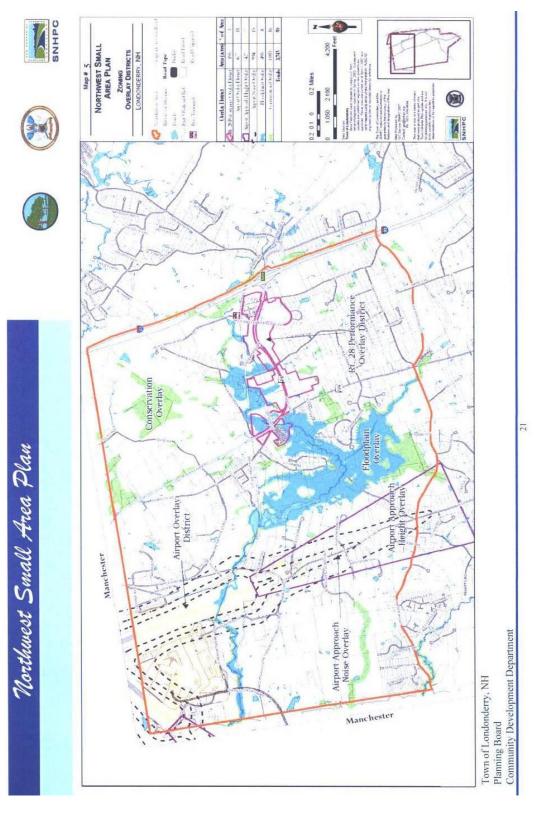
Source: Town of Londonderry, NH Zoning Ordinance, As Amended Through August 2009.

TABLE E5-5 TOWN OF LONDONDERRY OVERLAY DISTRICTS

Overlay District	Permitted Uses
POD-102 Performance Overlay District	Assisted Living, Elderly Housing, Nursing Homes, Public Recreational Uses, Religious Facilities, Business Center Development, Business Uses, Private Schools.
POD-28 Performance Overlay District	Assisted Living, Elderly Housing, Nursing Homes, Public Recreational Uses, Religious Facilities, Business Center Development, Business Uses, Private Schools.
CO Conservation Overlay	Wildlife habitat development and management, conservation areas and nature trails, open-air recreation, education, seasonally permitted hunting and fishing, forestry, minor accessory structures, production, cultivation, growing or harvesting of compatible fruits, vegetables or other crops (except turf grasses).
AH Airport Approach Height Overlay	Height limits are specified as a function of imaginary surface elevations and slopes, where no structure or tree shall be erected or allowed to grow within the defined areas such that it penetrates a surface. Regardless of penetration, a structure or tree less than 30 feet above ground shall not be limited due to surface penetrations.
AZ Airport Approach Noise Overlay	The Noise Overlay applies to the entire Town area within the 65 Ldn contour in accordance with the 1991 Part 150 Noise Compatibility Plan conducted by the Manchester Airport Authority. The Ldn contours are based on the forecast 1991 conditions with noise abated operating conditions. Land uses are prohibited based on the Table of Land Use Compatibility Standards.
FP Flood Plain Overlay	Applies to all lands designated as special flood hazard areas by Federal Emergency Management Agency in its "Flood Insurance Study for Rockingham County", dated May 17, 2005, together with associated Flood Insurance Maps panels identified in Zoning Ordinances. Proposed development in special flood hazard area requires a permit. Building inspector shall review all building permit applications for new construction or substantial improvements to determine if proposed sites will be reasonably safe from flooding and are consistent with overlay area requirements.

Source: Town of Londonderry, NH Zoning Ordinance, As Amended Through August 2009.

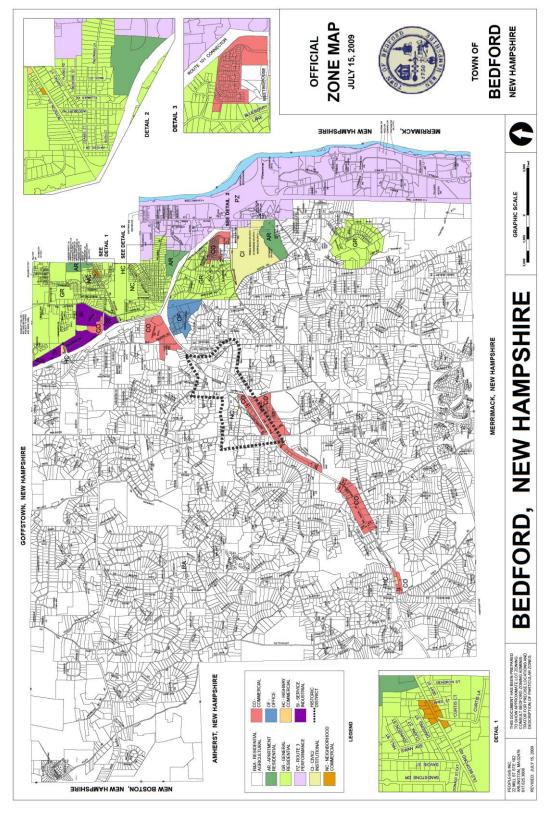
FIGURE E5-4
TOWN OF LONDONDERRY
NORTHWEST SMALL AREA PLAN - AIRPORT OVERLAY DISTRICTS



Source: http://www.londonderrynh.org/planning/adoptednwsamp090909.pdf

Figure E5-5 shows the Town of Bedford zoning map, and **Table E5-6** identifies the zoning codes and permitted uses. A small Section of the Runway 06 Runway Protection Zone (RPZ) extends over the west side of the Merrimack River into the Town of Bedford. Zoning on the privately owned parcels with the Runway 06 RPZ is PZ–Route 3 Performance. Residential zoning exists beyond the approximately 3,000 foot deep PZ designation on the west bank of the Merrimack River.

FIGURE E5-5 TOWN OF BEDFORD ZONING MAP



Oourge. http://decilorum.virtuarrowninam.nevpages/decilorum_documerzoming/zoming/wap

TABLE E5-6 TOWN OF BEDFORD ZONING DISTRICTS

Zoning Code	Permitted Uses
RA Residential & Agricultural	Single Dwelling, Elderly Housing, Workforce Housing, Place of Worship, Educational Institution, Hospital, Nursing Homes & Assisted Living, Public Parks & Playgrounds, Day Care Facility, Agricultural, General Farming, Helicopter Operation, Wireless Communications Facilities, Customary Accessory Uses.
GR General Residential	Single Dwelling, Elderly Housing, Workforce Housing, Place of Worship, Educational Institution, Hospital, Nursing Homes & Assisted Living, Public Parks & Playgrounds, Day Care Facility, Gardens, Nurseries and Greenhouses, Wireless Communications Facilities, Customary Accessory Uses.
AR Apartment Residential	Duplex and Multiple Dwellings, Elderly Housing, Workforce Housing, Public Parks & Playgrounds, Day Care Facility, Wireless Communications Facilities, Customary Accessory Uses.
CI Civic & Institutional	Commercial Recreation Facility, Membership Club, Wide Range of Public/Institutional Uses including Places of Worship, Educational Facilites, Public Parks & Playgrounds, Day Care Facility, Cemeteries, Golf Course, Community Center and Government Facilities, Wireless Communications Facilities, Customary Accessory Uses.
CO Commercial	Elderly Housing, Workforce Housing, Wide Range of Commercial Uses including Motels, Hotels and Professional Offices, Educational Institution, Nursing Homes and Assisted Living, Public Parks & Playgrounds and Day Care Facility, Customary Accessory Uses, Wireless Communications Facilities.
OF Office	Elderly Housing, Workforce Housing, Banks, Retail Sales, Business and Professional Offices, Medical or Dental Clinics, Public Parks & Playgrounds, Day Care Facility, Wireless Communications Facilities, Customary Accessory Uses.
NC Neighborhood Commercial	Retail Sales, Professional Office, Personal Service Establishment, Public Parks & Playgrounds, Day Care Facility, Wireless Communications Facilities, Customary Accessory Uses.
HC Highway Commercial	Retail Sales, Hotels and Motels, Wide Range of Commercial Uses, Public Parks & Playgrounds, Day Care Facility, Wireless Communications Facilities, Customary Accessory Uses.
SI Service Industrial	Elderly Housing, Workforce Housing, Wholesaling, Rental & Service of Tools & Equipment, Light Manufacturing, Warehousing, Truck Terminal, Industrial Research and Development, Public Parks & Playgrounds, Day Care Facility, Wireless Communications Facilities, Customary Accessory Uses, Business Office.
PZ Performance Standards	Home Occupation Residential, Wide Range of Commercial Uses including Hotels, Motels and Professional Offices, Wide Range of Industrial Uses, Wide Range of Public and Institutional Uses including Schools, Nursing Homes, Hospitals, Day Care Facilities, Community Centers and Government Facilities, General Farming and Gardens, Nurseries and Greenhouses, Wide Range of Accessory Uses including Business Offices.

Source: Town of Bedford, NH Zoning Ordinance, Part IV Zoning Ordinance.

APPENDIX E6

INVENTORY/EXISTING CONDITIONS

1.0 RECENT AND FUTURE AIRPORT DEVELOPMENT AT MAJOR COMPETING AIRPORTS

Boston Logan International Airport 1

On February 14, 2008, the Massachusetts Port Authority (MASSPORT), the operator of Boston Logan International Airport, approved its capital program for fiscal years 2008, through 2012 (the "FY08-FY12 Capital Program"). The program was developed in order to continue to fund security initiatives and airfield operation enhancements, through maximizing Federal Aviation Administration ("FAA") and Transportation Security Administration ("TSA") grant receipts and utilizing a \$4.50 Passenger Facility Charge ("PFC"). The FY08-FY12 Capital Program allocates a significant amount of funding to important initiatives including existing security challenges facing the aviation industry, maintaining and enhancing the public airfield and making improvements to the public parking facilities at the Airport. The FY08-FY12 Capital Program includes capital projects totaling approximately \$899.7 million. Funding for these projects will be provided from a number of sources, primarily bond issuances, grant funding, PFCs and MASSPORT's own revenues. During fiscal year 2008, MASSPORT disbursed approximately \$155.2 million on its on-going capital program. Major projects under construction during fiscal year 2008 include the Southwest Taxiway, Centerfield Taxiway, acquisition of the airport roadways, runway guard lights, taxiway lighting improvements and modifications to the baggage rooms.

MASSPORT participates in the FAA's Airport Improvement Program ("AIP"), which provides Airport and Airway Trust Fund money for airport development, airport planning and noise abatement programs. The FAA offers both entitlement and discretionary grants for eligible projects. AIP grant revenue in fiscal years 2008 and 2007 totaled \$39.4 million and \$9.8 million, respectively. AIP grant revenue represents approximately 94.3% and 91.6% of total capital grant revenue earned during fiscal year 2008 and 2007, respectively. During fiscal year 2004, MASSPORT and the FAA executed a Letter of Intent ("LOI") pursuant to which the FAA agreed to provide approximately \$90.8 million in grants over an eight-year period to assist MASSPORT with its airside improvement program. In fiscal year 2008, MASSPORT secured a \$25.4 million grant under the LOI, which was included in the \$39.4 million of AIP grant revenue discussed above. In addition, MASSPORT secured \$13.6 million and \$15.0 million in AIP grants during fiscal years 2006 and 2005, respectively, under the LOI. Total grants awarded under the LOI through June 30, 2008 were approximately \$54.0 million.

Portland International Jetport

Due in part to recent lower air fares associated with service by JetBlue and Air Tran, airline enplanements at Portland International Jetport ("Jetport") increased by +27.4% during the CY 2004-2008 period, rising from 687,344 to 875,877. This extremely fast growth has exacerbated space problems in the Terminal. In a 2008 carrier notification letter, a \$152 million terminal expansion was proposed. The proposed expansion will result in approximately 165,000 additional square feet of terminal space including a new airline ticketing area, a bridge connecting the parking garage and the terminal, five additional airline gates, refurbishing of existing

¹ Massachusetts Port Authority Comprehensive Annual Financial Report for the year ending June 30, 2008.

airline gate area, additional security lanes, additional concession areas, and the relocation of the Jetport's administrative offices. The Jetport is also contemplating the addition of an in-line baggage system which is currently not part of the proposed terminal expansion project².

The Maine Biennial Capital Work Plan for 2010-2011 lists a number of projects to be undertaken at the Jetport. These include:

- Taxiway "C" and "J" resurfacing,
- Taxiway "C" extension,
- Improved signage on the access roads,
- Reconstruction of runway 18/36,
- Safety area construction on Runways 18/36 and 11/29

The Maine State Airport System Plan also recommended adding over 5,000 additional vehicle parking spaces, 86 additional hangar spaces, and 40 additional aircraft tie-down spaces by 2021.

Burlington International Airport

From 2004 through 2009 Burlington received FAA grants for apron, taxiway and terminal projects, as well as safety area improvements for Runway 15-33 and development land acquisition. An update to the master plan was funded during Federal Fiscal Year 2008 and is currently underway. In addition, the airport recently received funding under the American Recovery and Reinvestment Act for reconstruction of the interSections of Taxiways "C" and "G," an extension of Taxiway "G" and the construction of Taxiway "J." Since 2004, enplanements at Burlington have increased by +19.2%, with an additional 240,000 passengers at the airport during CY 2008 compared to CY 2004. Burlington International Airport is now served by two low cost carriers, JetBlue and Air Tran, which helped contribute to the recent growth in airport passengers.

T.F. Green Airport

One of the major development aspects at T.F. Green Airport is the Warwick Intermodal Facility, which is scheduled to open for train service in late 2010. This facility will serve as a connector for both local and interstate (AMTRAK) train service to the Airport. In addition, the facility will house a consolidated rental car facility; a parking garage for rental car operations and rail commuters; a bus hub for local and intercity buses; and a skywalk with moving sidewalks to connect the facility with the Airport.

Following the completion of the airport master plan in 2004, an Environmental Impact Statement (EIS) process commenced. From this process, a refined development option was prepared, which would extend the main runway (Runway 05/23) south for a total of 8,700 feet and shift Runway 16/34 north approximately 100 feet to accommodate safety improvements. These runway alignments would minimize impacts to businesses and natural resources. The Runway 16/34 safety improvements would require a partial relocation of Airport Road at the intersection of Post Road and Airport Road. This option would not require a full relocation of Airport Road, but Main Avenue would be shifted to the south at the Runway 05 end. This alternative also includes:

• Improvements to the Runway 16/34 safety areas

^

² Carrier Notification Letter at <u>www.portlandjetport.org</u>

- Relocation of Taxiway C
- Demolition of Hangar 1
- Expansion of the passenger terminal
- Construction of a new ground support equipment (GSE) facility
- Construction of new cargo facilities for belly cargo and the USPS
- Construction of a new fuel farm
- Construction of a new integrated cargo facility

The EIS process is currently on-going.

Bradley International Airport

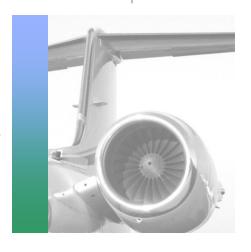
The Connecticut Department of Transportation, operator of Bradley International Airport's five year capital plan features significant work on noise mitigation and preliminary work on the design and planning for a new terminal, with demolition now planned for 2011-2012 and construction for sometime beyond 2013. Some taxiway rehabilitation is also planned for 2011-2013.

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MANCHESTER-BOSTON REGIONAL AIRPORT

Airport Master Plan Update

 $\frac{\text{APPENDIX}\,F}{\text{Surface Transportation}}$



Appendix F1

Traffic Counts

Location: Perimeter Road North of

Location: Brown Avenue City/State: Manchester, NH Counter: 13866

Site Code: 17266001

Start	19-Oct	t-09	Т	ue	V	/ed		Γhu	F	ri	S	at	Sur	1	Week A	verage
Time	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
12:00 AM	*	*	10	16	10	21	18	41	*	*	*	*	*	*	13	26
01:00	*	*	14	23	11	7	6	7	*	*	*	*	*	*	10	12
02:00	*	*	15	7	14	6	14	6	*	*	*	*	*	*	14	6
03:00	*	*	12	4	12	7	15	9	*	*	*	*	*	*	13	7
04:00	*	*	44	23	37	17	39	19	*	*	*	*	*	*	40	20
05:00	*	*	67	75	58	64	63	66	*	*	*	*	*	*	63	68
06:00	*	*	115	138	108	126	103	142	*	*	*	*	*	*	109	135
07:00	*	*	117	260	134	233	120	278	*	*	*	*	*	*	124	257
08:00	*	*	116	202	93	203	130	189	*	*	*	*	*	*	113	198
09:00	*	*	76	119	99	124	84	112	*	*	*	*	*	*	86	118
10:00	*	*	127	121	101	109	118	135	*	*	*	*	*	*	115	122
11:00	*	*	129	133	136	134	146	115	*	*	*	*	*	*	137	127
12:00 PM	*	*	147	142	168	141	135	138	*	*	*	*	*	*	150	140
01:00	*	*	163	150	140	140	163	166	*	*	*	*	*	*	155	152
02:00	*	*	166	143	166	164	174	155	*	*	*	*	*	*	169	154
03:00	*	*	189	218	236	207	185	188	*	*	*	*	*	*	203	204
04:00	*	*	261	169	248	167	239	205	*	*	*	*	*	*	249	180
05:00	*	*	279	156	234	154	255	141	*	*	*	*	*	*	256	150
06:00	*	*	112	139	121	119	184	129	*	*	*	*	*	*	139	129
07:00	*	*	84	99	108	106	107	100	*	*	*	*	*	*	100	102
08:00	*	*	63	79	77	79	93	102	*	*	*	*	*	*	78	87
09:00	*	*	66	58	60	58	72	50	*	*	*	*	*	*	66	55
10:00	*	*	48	87	37	78	42	43	*	*	*	*	*	*	42	69
11:00	*	*	30	52	44	44	39	67	*	*	*	*	*	*	38	54
Lane	0	0	2450	2613	2452	2508	2544	2603	0	0	0	0	0	0	2482	2572
Day	0		500		496		514		0		0		0		5054	
AM Peak			11:00	07:00	11:00	07:00	11:00	07:00							11:00	07:00
Vol.			129	260	136	233	146	278							137	257
PM Peak			17:00	15:00	16:00	15:00	17:00	16:00							17:00	15:00
Vol.			279	218	248	207	255	205							256	204
Comb. Total		0		5063		4960		5147		0		0		0		5054
ADT		ADT	5,057	,	AADT 5,057											

Location: Brown Avenue North of Location: Perimeter Road City/State: Manchester, NH Counter : 13569

Site Code: 12766002

Start	20-Oct-09	N	IB	Hour	Totals		SB	Hour	Totals	Combin	ed Totals
Time	Tue	Morning	Afternoon	Mornina	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		34	197			20	198				
12:15		22	160			17	190				
12:30		10	193			19	181				
12:45		19	190	85	740	33	194	89	763	174	1503
01:00		13	180			21	187				
01:15		44	168			18	192				
01:30		58	163			9	166				
01:45		16	161	131	672	14	203	62	748	193	1420
02:00		10	162			9	197				
02:15		13	176			6	240				
02:30		8	213			10	265				
02:45		10	205	41	756	20	258	45	960	86	1716
03:00		16	284			6	260				
03:15		12	266			20	277				
03:30		15	299			43	268				
03:45		10	270	53	1119	47	322	116	1127	169	2246
04:00		36	284	00		46	288				
04:15		35	344			54	302				
04:30		36	302			120	258				
04:45		66	335	173	1265	133	255	353	1103	526	2368
05:00		70	377		.200	174	288	000		020	2000
05:15		83	284			180	274				
05:30		122	287			175	276				
05:45		92	198	367	1146	179	241	708	1079	1075	2225
06:00		101	199	00.		165	211				
06:15		142	282			199	186				
06:30		175	178			235	197				
06:45		191	146	609	805	258	156	857	750	1466	1555
07:00		264	144	000		208	156				.000
07:15		284	196			232	139				
07:30		290	118			267	120				
07:45		292	90	1130	548	304	125	1011	540	2141	1088
08:00		275	81	1100	0.0	239	144	1011	0.10	2	1000
08:15		258	70			233	142				
08:30		233	119			222	122				
08:45		207	150	973	420	225	123	919	531	1892	951
09:00		223	101	010	720	204	91	010	001	1002	301
09:15		161	90			158	110				
09:30		194	74			189	88				
09:45		180	54	758	319	199	96	750	385	1508	704
10:00		153	129	730	313	166	86	730	303	1300	704
10:15		188	167			184	63				
10:30		154	129			201	77				
10:45		193	62	688	487	192	79	743	305	1431	792
11:00		193	88	000	707	188	40	740	303	1701	132
11:15		148	88			176	55				
11:30		184	115			193	45				
11:45		180	53	704	344	186	44	743	184	1447	528
Total		5712	8621	704	J44	6396	8475	745	104	12108	17096
Percent		39.9%	60.1%			43.0%	57.0%			41.5%	58.5%
reicent		39.9%	00.176			43.0%	37.0%			41.5%	36.3%

Location: Brown Avenue North of Location: Perimeter Road City/State: Manchester, NH Counter : 13569

Site Code: 12766002

Start Time	21-Oct-09		IB	nour	Totals	3	BB .	Hour	Totals	Combin	ed Totals
	Wed	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		59	230			21	181	<u>J</u>			
12:15		30	224			19	172				
12:30		24	187			19	176				
12:45		18	157	131	798	11	208	70	737	201	1535
01:00		12	152			11	203				
01:15		8	184			10	210				
01:30		19	184			5	180				
01:45		11	158	50	678	12	176	38	769	88	1447
02:00		9	188			5	215				
02:15		5	145			7	210				
02:30		9	172			7	265				
02:45		7	184	30	689	22	280	41	970	71	1659
03:00		18	305			11	267				
03:15		13	276			21	279				
03:30		8	367			41	281				
03:45		14	269	53	1217	48	284	121	1111	174	2328
04:00		18	277			42	329				
04:15		22	318			78	291				
04:30		31	353			84	300				
04:45		37	321	108	1269	151	307	355	1227	463	2496
05:00		72	379			154	264				
05:15		69	341			168	306				
05:30		101	301			166	265				
05:45		88	203	330	1224	181	255	669	1090	999	2314
06:00		97	179			177	206				
06:15		138	177			214	181				
06:30		165	196			193	193				
06:45		214	189	614	741	284	196	868	776	1482	1517
07:00		270	144			202	153				
07:15		271	152			188	154				
07:30		279	167			238	154				
07:45		259	167	1079	630	312	151	940	612	2019	1242
08:00		261	111			235	146				
08:15		264	99			199	126				
08:30		226	93			219	154				
08:45		187	241	938	544	206	124	859	550	1797	1094
09:00		141	129			189	105				
09:15		169	117			156	114				
09:30		169	101			140	92				
09:45		153	86	632	433	175	94	660	405	1292	838
10:00		154	116			142	99				
10:15		145	128			183	67				
10:30		164	168			155	82				
10:45		191	91	654	503	203	75	683	323	1337	826
11:00		201	122			184	42				
11:15		198	70			159	55				
11:30		184	85			199	50				
11:45		174	62	757	339	187	44	729	191	1486	530
Total	-	5376	9065			6033	8761			11409	17826
Percent		37.2%	62.8%			40.8%	59.2%			39.0%	61.0%

Location: Brown Avenue North of Location: Perimeter Road City/State: Manchester, NH Counter : 13569

Site Code: 12766002

17266002

Start	22-Oct-09		IB		Totals		BB		Totals		ed Totals	
Time	Thu	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoo	
12:00		52	239			34	204					
12:15		79	211			25	181					
12:30		105	198			19	191					
12:45		30	204	266	852	17	205	95	781	361	163	
01:00		17	203			12	185					
01:15		13	153			11	223					
01:30		10	174			10	185					
01:45		9	172	49	702	8	214	41	807	90	150	
02:00		6	200			6	182					
02:15		11	170			4	234					
02:30		11	205			12	277					
02:45		11	212	39	787	16	286	38	979	77	176	
03:00		28	281			11	254					
03:15		7	271			22	281					
03:30		7	311			40	273					
03:45		18	247	60	1110	44	297	117	1105	177	221	
04:00		14	311	00	1110	44	340		1100	• • • • • • • • • • • • • • • • • • • •		
04:15		26	323			78	320					
04:30		35	311			108	313					
04:45		58	352	133	1297	141	301	371	1274	504	257	
05:00		61	416	100	1201	135	292	071	1274	004	201	
05:15		78	354			141	320					
05:30		75	280			153	248					
05:45		109	230	323	1280	134	284	563	1144	886	242	
06:00		82	188	323	1200	174	214	303	1144	000	242	
06:15		151	171			208	228					
06:30		165	201			248	209					
06:45		205	195	603	755	260	231	890	882	1493	163	
07:00		203	176	003	133	187	181	090	002	1433	100	
07:00		261	158			198	201					
						246						
07:30 07:45		283 251	104 99	1022	527	303	164	934	722	1956	126	
				1022	537		186	934	732	1956	120	
08:00		302	152			213	164					
08:15		241	120			238	151					
08:30		215	98	000		226	167	070	040	4000	445	
08:45		234	185	992	555	199	136	876	618	1868	117	
09:00		173	187			177	144					
09:15		144	173			159	101					
09:30		144	138			151	107					
09:45		158	140	619	638	169	100	656	452	1275	109	
10:00		200	121			161	87					
10:15		146	131			147	85					
10:30		161	202			169	83					
10:45		158	149	665	603	183	85	660	340	1325	94	
11:00		186	128			194	47					
11:15		203	104			187	61					
11:30		179	123			212	51					
11:45		180	107	748	462	202	54	795	213	1543	67	
Total		5519	9578			6036	9327			11555	1890	
Percent		36.6%	63.4%			39.3%	60.7%			37.9%	62.1	
Grand Tota		166	07 2726	34		184		33		350		

AADT 29,633 ADT ADT 29,633

Location: Brown Avenue North of

Location: Perimeter Road City/State: Manchester, NH Counter: 13569

ADT

ADT 29,633

Site Code: 12766002

17266002

Start	19-Oct	-09	7	Гие	V	Ved		Thu	F	ri	Sa	at	Sun	1	Week A	Average
Time	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
12:00 AM	*	*	85	89	131	70	266	95	*	*	*	*	*	*	161	85
01:00	*	*	131	62	50	38	49	41	*	*	*	*	*	*	77	47
02:00	*	*	41	45	30	41	39	38	*	*	*	*	*	*	37	41
03:00	*	*	53	116	53	121	60	117	*	*	*	*	*	*	55	118
04:00	*	*	173	353	108	355	133	371	*	*	*	*	*	*	138	360
05:00	*	*	367	708	330	669	323	563	*	*	*	*	*	*	340	647
06:00	*	*	609	857	614	868	603	890	*	*	*	*	*	*	609	872
07:00	*	*	1130	1011	1079	940	1022	934	*	*	*	*	*	*	1077	962
08:00	*	*	973	919	938	859	992	876	*	*	*	*	*	*	968	885
09:00	*	*	758	750	632	660	619	656	*	*	*	*	*	*	670	689
10:00	*	*	688	743	654	683	665	660	*	*	*	*	*	*	669	695
11:00	*	*	704	743	757	729	748	795	*	*	*	*	*	*	736	756
12:00 PM	*	*	740	763	798	737	852	781	*	*	*	*	*	*	797	760
01:00	*	*	672	748	678	769	702	807	*	*	*	*	*	*	684	775
02:00	*	*	756	960	689	970	787	979	*	*	*	*	*	*	744	970
03:00	*	*	1119	1127	1217	1111	1110	1105	*	*	*	*	*	*	1149	1114
04:00	*	*	1265	1103	1269	1227	1297	1274	*	*	*	*	*	*	1277	1201
05:00	*	*	1146	1079	1224	1090	1280	1144	*	*	*	*	*	*	1217	1104
06:00	*	*	805	750	741	776	755	882	*	*	*	*	*	*	767	803
07:00	*	*	548	540	630	612	537	732	*	*	*	*	*	*	572	628
08:00	*	*	420	531	544	550	555	618	*	*	*	*	*	*	506	566
09:00	*	*	319	385	433	405	638	452	*	*	*	*	*	*	463	414
10:00	*	*	487	305	503	323	603	340	*	*	*	*	*	*	531	323
11:00	*	*	344	184	339	191	462	213	*	*	*	*	*	*	382	196
Lane	0	0	14333	14871	14441	14794	15097	15363	0	0	0	0	0	0	14626	15011
Day	0		292		292			460	0		0		0		2963	
AM Peak			07:00	07:00	07:00	07:00	07:00	07:00							07:00	07:00
Vol.			1130	1011	1079	940	1022	934							1077	962
PM Peak			16:00	15:00	16:00	16:00	16:00	16:00							16:00	16:00
Vol.			1265	1127	1269	1227	1297	1274							1277	1201
Comb. Total		0		29204		29235		30460		0		0		0		29637

AADT 29,633

Location: Airport Road East of Location: Perimeter Road City/State: Manchester, NH Counter: 13940

Site Code: 17266003

Start	20-Oct-09	V	/B	Hour	Totals	E	В	Hour	Totals	Combined Totals	
Time	Tue	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		40	149			7	114				
12:15		15	111			4	115				
12:30		13	132			8	126				
12:45		8	127	76	519	25	115	44	470	120	989
01:00		17	111			12	126				
01:15		55	104			13	128				
01:30		61	112			8	94				
01:45		14	101	147	428	12	148	45	496	192	924
02:00		8	98			7	103				
02:15		14	103			8	160				
02:30		7	136			8	163				
02:45		9	120	38	457	18	164	41	590	79	1047
03:00		10	233			6	151				
03:15		6	189			23	159				
03:30		8	197			42	150				
03:45		7	194	31	813	49	204	120	664	151	1477
04:00		34	184			52	151				
04:15		32	231			58	148				
04:30		38	190			121	120				
04:45		48	235	152	840	154	122	385	541	537	1381
05:00		58	257			187	152				
05:15		77	174			198	99				
05:30		96	155			166	116				
05:45		62	95	293	681	175	114	726	481	1019	1162
06:00		63	127			153	82				
06:15		60	193			169	70				
06:30		76	94			180	92				
06:45		96	87	295	501	216	68	718	312	1013	813
07:00		127	113	200		154	60		0.2	.0.0	0.0
07:15		97	163			154	63				
07:30		116	89			177	50				
07:45		86	59	426	424	212	45	697	218	1123	642
08:00		84	51	120		174	61	001	2.0	1120	012
08:15		91	52			166	60				
08:30		98	137			139	60				
08:45		121	126	394	366	157	60	636	241	1030	607
09:00		128	97	004	000	153	46	000	271	1000	001
09:15		101	65			101	42				
09:30		109	56			107	53				
09:45		130	48	468	266	130	56	491	197	959	463
10:00		83	129	700	200	112	55	T 0 1	131	555	400
10:00		125	177			141	42				
10:13		114	116			157	58				
10:35		136	49	458	471	140	62	550	217	1008	688
11:00		136	95	400	47.1	112	29	330	211	1000	000
11:15		120	92			138	37				
11:15		120	113			136	24				
11:45		105	38	488	338	133	22	519	112	1007	450
Total		3266		400	330	4972	4539	519	112	8238	
			6104								10643
Percent		34.9%	65.1%			52.3%	47.7%			43.6%	56.4%

Location: Airport Road East of Location: Perimeter Road City/State: Manchester, NH Counter: 13940

Site Code: 17266003

Start	21-Oct-09	V	/B	Hour	Totals	Е	В	Hour Totals		Combined Totals	
Time	Wed	Morning	Afternoon		Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		69	164			6	115				
12:15		30	140			4	108				
12:30		19	124			4	107				
12:45		16	112	134	540	6	147	20	477	154	1017
01:00		10	95			5	133				
01:15		11	133			4	119				
01:30		11	105			2	124				
01:45		7	101	39	434	7	121	18	497	57	931
02:00		6	98			3	131				
02:15		3	84			7	117				
02:30		6	114			6	166				
02:45		1	105	16	401	18	186	34	600	50	1001
03:00		17	205			6	167				
03:15		5	188			22	190				
03:30		4	241			43	154				
03:45		11	177	37	811	48	168	119	679	156	1490
04:00		3	189			43	193				
04:15		13	201			85	133				
04:30		20	224			89	159				
04:45		37	199	73	813	163	143	380	628	453	1441
05:00		62	264			162	110				
05:15		50	240			156	103				
05:30		60	192			155	107				
05:45		53	90	225	786	167	118	640	438	865	1224
06:00		45	84	220	700	148	73	040	400	000	122
06:15		61	101			177	89				
06:30		65	136			144	93				
06:45		96	109	267	430	232	105	701	360	968	790
07:00		139	101	201	430	150	75	701	300	300	750
07:15		79	110			121	70				
07:30		84	121			146	60				
07:45		81	122	383	454	226	65	643	270	1026	724
08:00		86	74	303	434	150	58	043	210	1020	122
08:15		102	65			145	58				
08:30		112	93			143	61				
08:45		86	212	386	444	151	63	589	240	975	684
09:00		61	119	300	444	123	52	309	240	913	004
09:00		88	84			100	48				
09:13		101	83			130	37				
09:30		101	69	351	355	138	53	491	190	842	545
10:00		93		331	333	100	43	491	190	042	540
10:00		104	102 116			141	31				
10:15		82	177			106	49				
10:30		152	77	431	472	128	52	475	175	906	647
11:00				431	4/2	128	25	4/3	1/5	900	047
11:00		128 151	118			120	47				
11:15			60			126					
11:30		108	75	E07	240	135 114	29	405	105	1000	444
11:45		120	63	507	316		24	495	125	1002	441
Total		2849	6256			4605	4679			7454	10935
Percent		31.3%	68.7%			49.6%	50.4%			40.5%	59.5%

Location: Airport Road East of Location : Perimeter Road City/State: Manchester, NH Counter : 13940

Site Code: 17266003

17266003

Start	22-Oct-09		/B		Totals		В		Totals	Combine	
Time	Thu	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternooi
12:00		40	158			15	144				
12:15		114	129			17	132				
12:30		94	158			12	134				
12:45		26	142	274	587	11	119	55	529	329	111
01:00		19	127			3	114				
01:15		14	89			4	142				
01:30		8	115			5	134				
01:45		7	89	48	420	3	145	15	535	63	95
02:00		4	137			3	95				
02:15		5	84			5	138				
02:30		7	138			11	181				
02:45		12	145	28	504	17	190	36	604	64	110
03:00		20	199			10	170				
03:15		2	213			21	162				
03:30		7	208			37	190				
03:45		9	199	38	819	47	193	115	715	153	153
04:00		8	246			48	198				
04:15		20	219			84	169				
04:30		25	180			107	153				
04:45		44	246	97	891	149	139	388	659	485	155
05:00		50	282			143	118				
05:15		61	236			138	129				
05:30		53	166			158	120				
05:45		57	110	221	794	133	124	572	491	793	128
06:00		56	81			153	87				
06:15		69	91			165	67				
06:30		66	155			200	84				
06:45		86	122	277	449	193	88	711	326	988	77
07:00		131	146			152	77				
07:15		59	96			122	58				
07:30		97	58			157	58				
07:45		84	63	371	363	202	88	633	281	1004	64
08:00		87	139	0, 1	000	160	66	000	201	1001	0.
08:15		92	81			146	49				
08:30		112	72			160	73				
08:45		93	188	384	480	159	71	625	259	1009	73
09:00		89	138	304	400	130	57	020	200	1003	7.0
09:15		86	146			101	41				
09:30		78	101			115	57				
09:45		102	109	355	494	118	50	464	205	819	69
10:00		121	72	333	434	128	45	404	203	019	US
10:00		86	104			109	58				
10:13		97	172			112	52				
10:30		83	107	387	455	130	60	479	215	866	67
11:00		126	90	301	400	139	28	413	213	000	01
11:15		159	66			139	33				
11:15		105	84			148	35				
11:45		120	64	510	304	129	41	553	137	1063	11
			6560	310	304			555	137	7636	1151
Total		2990 31.3%	68.7%			4646 48.4%	4956 51.6%			7636 39.9%	1151 60.1
Percent Crand Tata	1		-	20		-		7.1			
Grand Tota	I	91 32.	05 1892 5% 67.5			142	23 141 [°] 1% 49.9			2332	8 3

ADT 18,807 AADT 18,807 ADT

Location: Airport Road East of Location: Perimeter Road City/State: Manchester, NH Counter: 13940

Comb. Total

Site Code: 17266003

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17266003

18805

Start	19-Oct-	09	Т	ue	V	Ved	7	Γhu	Fr	i	Sa	at	Su	n	Week A	Average
Time	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	ĔB
12:00 AM	*	*	76	44	134	20	274	55	*	*	*	*	*	*	161	40
01:00	*	*	147	45	39	18	48	15	*	*	*	*	*	*	78	26
02:00	*	*	38	41	16	34	28	36	*	*	*	*	*	*	27	37
03:00	*	*	31	120	37	119	38	115	*	*	*	*	*	*	35	118
04:00	*	*	152	385	73	380	97	388	*	*	*	*	*	*	107	384
05:00	*	*	293	726	225	640	221	572	*	*	*	*	*	*	246	646
06:00	*	*	295	718	267	701	277	711	*	*	*	*	*	*	280	710
07:00	*	*	426	697	383	643	371	633	*	*	*	*	*	*	393	658
08:00	*	*	394	636	386	589	384	625	*	*	*	*	*	*	388	617
09:00	*	*	468	491	351	491	355	464	*	*	*	*	*	*	391	482
10:00	*	*	458	550	431	475	387	479	*	*	*	*	*	*	425	501
11:00	*	*	488	519	507	495	510	553	*	*	*	*	*	*	502	522
12:00 PM	*	*	519	470	540	477	587	529	*	*	*	*	*	*	549	492
01:00	*	*	428	496	434	497	420	535	*	*	*	*	*	*	427	509
02:00	*	*	457	590	401	600	504	604	*	*	*	*	*	*	454	598
03:00	*	*	813	664	811	679	819	715	*	*	*	*	*	*	814	686
04:00	*	*	840	541	813	628	891	659	*	*	*	*	*	*	848	609
05:00	*	*	681	481	786	438	794	491	*	*	*	*	*	*	754	470
06:00	*	*	501	312	430	360	449	326	*	*	*	*	*	*	460	333
07:00	*	*	424	218	454	270	363	281	*	*	*	*	*	*	414	256
08:00	*	*	366	241	444	240	480	259	*	*	*	*	*	*	430	247
09:00	*	*	266	197	355	190	494	205	*	*	*	*	*	*	372	197
10:00	*	*	471	217	472	175	455	215	*	*	*	*	*	*	466	202
11:00	*	*	338	112	316	125	304	137	*	*	*	*	*	*	319	125
Lane	0	0	9370	9511	9105	9284	9550	9602	0	0	0	0	0	0	9340	9465
Day	0		188		183		191		0		0		0		1880	
AM Peak			11:00	05:00	11:00	06:00	11:00	06:00							11:00	06:00
Vol.			488	726	507	701	510	711							502	710
PM Peak			16:00	15:00	16:00	15:00	16:00	15:00							16:00	15:00
Vol.			840	664	813	679	891	715							848	686

19152

0

ADT ADT 18,807 AADT 18,807

18881

Location: Airport Road East of Location : S. Perimeter Road City/State: Manchester, NH Counter : 10122

Site Code: 17266004

Time	Start	20-Oct-09	W	/B	Hour	Totals	E	EB	Hour	Totals	Combin	ed Totals
12:00												
12:15						7				7		7
12:30							2					
12:45												
01:00 13 93 11 105 01:15 48 88 88 13 112 01:30 61 71 6 93 01:45 15 104 137 356 4 111 34 421 171 777 02:00 4 60 5 95 02:01 12 95 4 133 02:25 6 6 79 26 335 13 120 28 498 54 833 03:03 9 200 5 135 03:15 4 173 7 124 03:30 3 125 36 157 03:45 2 152 18 650 44 143 92 559 110 1209 04:15 2 9 198 38 107 04:15 2 9 198 38 107 04:45 2 9 198 38 107 04:45 46 161 137 607 110 88 303 422 440 1029 05:00 58 160 05:45 55 51 270 423 106 89 549 296 819 719 06:45 6 7 51 230 352 143 37 513 182 743 534 07:10 6:45 55 39 271 284 116 23 459 08:30 77:45 55 39 271 284 116 23 459 08:45 57 120 246 244 108 44 410 147 656 391 08:45 101 27 323 164 119 64 394 172 717 336 08:45 101 27 323 164 119 64 394 172 717 336 08:45 111 31 348 401 119 69 39 509 197 857 598 11:15 112 82 113 34 39 40 119 59 509 197 857 598 11:15 112 82 113 34 401 119 59 509 197 857 598 11:15 112 82 113 34 401 119 59 509 197 857 598 11:15 112 82 113 34 401 119 59 509 197 857 598 11:15 112 82 113 32 47	12:45				39	430	21		41	413	80	843
01:15												
01:30 61 71 66 93 01:45 15 104 137 356 4 111 34 421 171 777 02:00 4 60 5 95 02:00 4 60 5 95 02:30 4 101 6 100 02:45 6 79 26 335 13 120 28 498 54 833 03:00 9 200 5 133 125 03:35 135 03:15 4 173 36 65 157 03:35 120 28 122 18 650 44 143 92 559 110 1209 04:15 29 198 188 131 02:04:45 46 161 137 607 110 88 303 422 440 1029 04:45 120 120 120 120 120 120 120 120 120 120												
01:45			61									
02:00				104	137	356			34	421	171	777
02:15								95				
02:30	02:15		12									
02.45	02:30						6	150				
03:00 9 200 5 135					26	335			28	498	54	833
03:15	03:00		9	200				135				
03:30	03:15		4	173				124				
03:45			3				36					
04:00	03:45				18	650		143	92	559	110	1209
04:15 29 198 38 107 04:30 34 126 107 96 04:45 46 161 137 607 110 88 303 422 440 1029 05:00 58 160 162 98 05:15 74 101 149 62 05:30 83 111 132 67 05:45 55 51 270 423 106 69 06:00 46 70 113 46 06:30 60 65 134 50 06:45 67 51 230 352 143 37 513 182 743 534 06:30 60 65 134 50 06:45 67 51 230 352 143 37 513 182 743 534 07:70 94 56 109 35 07:15 60 133 113 37 07:30 62 56 113 37 07:30 62 56 113 37 07:45 55 39 271 284 116 23 459 126 730 410 08:00 58 16 98 24 08:15 53 21 104 33 08:30 78 87 100 46 08:45 57 120 246 244 108 44 410 147 656 391 09:00 66 72 95 37 09:15 67 37 91 29 09:45 101 27 323 164 119 64 394 172 717 336 10:00 76 97 104 46 10:15 87 159 136 41 10:30 74 114 150 51 10:45 111 31 348 401 119 59 509 197 857 598 11:00 118 77 102 22 11:15 112 82 127 31 11:30 97 107 113 24 11:45 99 43 426 309 97 15 439 92 865 401 Total 2471 4555 3771 3525 6242 8080												
04:30	04:15		29	198			38	107				
04:45			34									
05:00 58 160 162 98 05:15 74 101 149 62 05:30 83 111 12 132 67 05:45 55 51 270 423 106 69 549 296 819 719 05:45 55 57 166 123 49 06:30 60:45 67 51 230 352 143 37 513 182 743 534 07:00 94 56 109 35 07:15 60 133 113 37 07:30 62 56 121 31 07:45 55 39 271 284 116 23 459 126 730 410 433 08:30 78 87 100 46 72 98 24 100 46 72 95 37 09:15 67 37 09:15 67 37 09:15 67 37 09:15 67 37 09:15 67 37 09:15 67 37 120 246 244 108 44 410 147 656 391 09:00 76 97 104 46 10:15 87 159 136 41 110 46 110:15 87 159 136 41 110 46 110:15 112 82 11:30 97 107 11:15 112 82 11:30 97 107 11:15 112 82 11:30 97 107 11:15 112 82 127 31 11:15 112 82 11:15 112 82 127 31 11:15	04:45			161	137	607	110	88	303	422	440	1029
05:15 74 101 149 62 05:30 83 111 132 67 05:45 55 51 270 423 106 69 549 296 819 719 06:00 46 70 113 46 9 60 69 549 296 819 719 06:05 57 166 123 49 60 60 65 123 49 60 60 65 60 133 513 182 743 534 50 60 60 65 60 60 60 60 60 60 60 60 60 60 60 60 60 60 60 743 60 60 743 534 50 60 60 743 534 60 60 743 534 60 60 743 534 60 60 743 60 743 743 <	05:00		58	160			162	98				
05:30 83 111 132 67 84 296 819 719 06:00 46 70 113 46 70 113 46 719 06:15 57 166 123 49 819 719 719 06:05 57 166 123 49 819 719	05:15		74	101			149	62				
05:45 55 51 270 423 106 69 549 296 819 719 06:00 46 70 113 46 49 49 60:15 57 166 123 49 49 60:30 60 65 123 49 60:30 60 65 123 49 60:30 60:45 60 50 134 50 60 50 60 50 50 50 50 50 50 50 50 50 50 50	05:30		83	111			132	67				
06:00			55	51	270	423	106	69	549	296	819	719
06:15 57 166 123 49 06:30 60 65 134 50 06:45 67 51 230 352 143 37 513 182 743 534 07:00 94 56 109 35 35 354	06:00		46	70			113	46				
06:30 60 65 71 230 352 143 37 513 182 743 534 07:00 94 56 109 35 113 37 513 182 743 534 07:00 94 56 109 35 113 37 513 182 743 534 07:30 62 56 121 31 13 37 513 182 730 410 113 113 113 113 113 113 114 115 112 82 11:30 74 114 114 155 112 82 11:30 74 115 199 43 426 309 97 15 439 92 865 401 Total 737:00 55 15 109 355 125 120 104 113 124 11:45 99 43 426 309 97 15 439 92 865 401 Total 175 102 147 1555 172 120 124 113 125 122 124 113 144 1555 122 124 113 144 145 150 144 145 150 144 145 150 144 145 150 144 145 145 1455 142 14555 142 14555 142 14555 142 14555 142 1455 142 14555 142 14555 142 14555 142 14555 142 14555 142 14555 142 14555 142 14555 142 14555 142 14555 142 14555 142 14555 142 150 150 150 150 150 150 150 150 150 150	06:15		57	166			123	49				
06:45 67 51 230 352 143 37 513 182 743 534 07:00 94 56 109 35 35 352	06:30							50				
07:15 60 133 113 37 07:30 62 56 121 31 07:45 55 39 271 284 116 23 459 126 730 410 08:00 58 16 98 24 08:15 53 21 104 33 08:30 78 87 100 46 08:45 57 120 246 244 108 44 410 147 656 391 09:00 66 72 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 92 94 102 20 <td>06:45</td> <td></td> <td>67</td> <td>51</td> <td>230</td> <td>352</td> <td></td> <td>37</td> <td>513</td> <td>182</td> <td>743</td> <td>534</td>	06:45		67	51	230	352		37	513	182	743	534
07:15 60 133 113 37 07:30 62 56 121 31 07:45 55 39 271 284 116 23 459 126 730 410 08:00 58 16 98 24 08:15 53 21 104 33 08:30 78 87 100 46 08:45 57 120 246 244 108 44 410 147 656 391 09:00 66 72 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 92 94 94 172 <td></td> <td></td> <td>94</td> <td></td> <td></td> <td></td> <td>109</td> <td>35</td> <td></td> <td></td> <td></td> <td></td>			94				109	35				
07:45 55 39 271 284 116 23 459 126 730 410 08:00 58 16 98 24	07:15		60	133			113	37				
07:45 55 39 271 284 116 23 459 126 730 410 08:00 58 16 98 24	07:30		62					31				
08:15 53 21 104 33 08:30 78 87 100 46 08:45 57 120 246 244 108 44 410 147 656 391 09:00 66 72 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 39 42 95 90 33 92 89 42 92 89 42 95 90 94 94 94 94 94 94 94 94 172 717 336 36 41 102 104 46 46 41 102 104 46 41 102 104 46 41 102 104 46 41 102 102 102	07:45		55	39	271	284	116	23	459	126	730	410
08:30 78 87 100 46 08:45 57 120 246 244 108 44 410 147 656 391 09:00 66 72 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 96 39 28 99 42 99 98 42 99 98 42 99 98 42 99 98 42 99 98 42 99 43 46 119 64 394 172 717 336 10	08:00		58	16			98	24				
08:45 57 120 246 244 108 44 410 147 656 391 09:00 66 72 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 95 37 91 29 90				21				33				
09:00 66 72 95 37 09:15 67 37 91 29 09:30 89 28 89 42 09:45 101 27 323 164 119 64 394 172 717 336 10:00 76 97 104 46 46 41 46 41 46 41 46 41 46 41 46 41 46 41 46 41 46 41 46 41 46 41 46 41 46 41 46 41	08:30		78				100	46				
09:15 67 37 91 29 09:30 89 28 89 42 09:45 101 27 323 164 119 64 394 172 717 336 10:00 76 97 104 46 97 104 46 101 102 103 10	08:45			120	246	244			410	147	656	391
09:30 89 28 09:45 101 27 323 164 119 64 394 172 717 336 10:00 76 97 104 46 10:15 87 159 136 41 10:30 74 114 150 51 10:45 111 31 348 401 119 59 509 197 857 598 11:00 118 77 102 22 11:15 112 82 127 31 31 11:30 97 107 113 24 11:45 99 43 426 309 97 15 439 92 865 401 Total 2471 4555 3771 3525 6242 8080	09:00			72				37				
09:45 101 27 323 164 119 64 394 172 717 336 10:00 76 97 104 46 46 46 46 46 47 46 47 46 47 47 46 47 46 47 46 47 47 46 47 47 46 47 47 46 47 46 47 47 46 47 46 47 46 47 <td< td=""><td>09:15</td><td></td><td>67</td><td></td><td></td><td></td><td>91</td><td></td><td></td><td></td><td></td><td></td></td<>	09:15		67				91					
10:00 76 97 104 46 10:15 87 159 136 41 10:30 74 114 150 51 10:45 111 31 348 401 119 59 509 197 857 598 11:00 118 77 102 22 11:15 112 82 127 31 11:30 97 107 113 24 11:45 99 43 426 309 97 15 439 92 865 401 Total 2471 4555 3771 3525 6242 8080	09:30							42				
10:15 87 159 136 41 10:30 74 114 150 51 10:45 111 31 348 401 119 59 509 197 857 598 11:00 118 77 102 22 11:15 112 82 127 31 11:30 97 107 113 24 11:45 99 43 426 309 97 15 439 92 865 401 Total 2471 4555 3771 3525 6242 8080	09:45		101	27	323	164		64	394	172	717	336
10:30 74 114 150 51 10:45 111 31 348 401 119 59 509 197 857 598 11:00 118 77 102 22 11:15 112 82 127 31 11:30 97 107 113 24 11:45 99 43 426 309 97 15 439 92 865 401 Total 2471 4555 3771 3525 6242 8080	10:00		76									
10:45 111 31 348 401 119 59 509 197 857 598 11:00 118 77 102 22 11:15 112 82 127 31 11:30 97 107 113 24 11:45 99 43 426 309 97 15 439 92 865 401 Total 2471 4555 3771 3525 6242 8080	10:15			159			136	41				
11:00 118 77 102 22 11:15 112 82 127 31 11:30 97 107 113 24 11:45 99 43 426 309 97 15 439 92 865 401 Total 2471 4555 3771 3525 6242 8080			74					51				
11:15 112 82 127 31 11:30 97 107 113 24 11:45 99 43 426 309 97 15 439 92 865 401 Total 2471 4555 3771 3525 6242 8080			111	31	348	401			509	197	857	598
11:30 97 107 113 24 11:45 99 43 426 309 97 15 439 92 865 401 Total 2471 4555 3771 3525 6242 8080								22				
11:45 99 43 426 309 97 15 439 92 865 401 Total 2471 4555 3771 3525 6242 8080			112	82								
11:45 99 43 426 309 97 15 439 92 865 401 Total 2471 4555 3771 3525 6242 8080	11:30			107			113	24				
Total 2471 4555 3771 3525 6242 8080	11:45			43	426	309		15	439	92	865	
Percent 35.2% 64.8% 51.7% 48.3% 43.6% 56.4%								3525				
	Percent		35.2%	64.8%			51.7%	48.3%			43.6%	56.4%

Location: Airport Road East of Location : S. Perimeter Road City/State: Manchester, NH Counter : 10122

Site Code: 17266004

Start	21-Oct-09	V	/B	Hour	Totals	E	B	Hour	Totals	Combin	ed Totals
Time	Wed	Morning	Afternoon								
12:00		55	122			7	77				
12:15		26	119			1	77				
12:30		11	99			3	86				
12:45		8	89	100	429	2	104	13	344	113	773
01:00		10	79			1	112				
01:15		8	110			1	103				
01:30		3	81			1	106				
01:45		2	83	23	353	3	83	6	404	29	757
02:00		4	61			1	103				
02:15		3	56			4	95				
02:30		2	72			5	149				
02:45		1	79	10	268	9	154	19	501	29	769
03:00		14	176			4	130				
03:15		2	144			8	151				
03:30		2	173			37	132				
03:45		3	128	21	621	31	134	80	547	101	1168
04:00		5	136			40	156				
04:15		10	169			59	124				
04:30		18	165			64	106				
04:45		29	149	62	619	130	84	293	470	355	1089
05:00		64	196			136	80				
05:15		48	151			133	67				
05:30		50	143			111	70				
05:45		49	57	211	547	110	49	490	266	701	813
06:00		42	34			110	41				
06:15		46	45			120	48				
06:30		62	103			114	43				
06:45		54	81	204	263	138	49	482	181	686	444
07:00		81	57			96	45				
07:15		45	75			86	42				
07:30		47	83			98	32				
07:45		45	101	218	316	117	43	397	162	615	478
08:00		54	48			80	21				
08:15		42	41			73	35				
08:30		61	50			95	44				
08:45		54	152	211	291	81	52	329	152	540	443
09:00		40	101			73	44				
09:15		55	71			96	44				
09:30		74	30			101	33				
09:45		84	38	253	240	117	55	387	176	640	416
10:00		65	70			85	33				
10:15		65	87			105	36				
10:30		55	155			107	46				
10:45		114	64	299	376	121	42	418	157	717	533
11:00		127	111			120	29				
11:15		105	51			109	39				
11:30		78	68			116	26				
11:45		81	54	391	284	92	19	437	113	828	397
Total		2003	4607			3351	3473			5354	8080
Percent		30.3%	69.7%			49.1%	50.9%			39.9%	60.1%

Location: Airport Road East of Location: All port Road East of Location: S. Perimeter Road City/State: Manchester, NH Counter: 10122

Site Code: 17266004

17266004

Start	22-Oct-09		/B		Totals		В		Totals	Combine	
Time	Thu	Morning	Afternoon								
12:00		37	130			13	113				
12:15		85	120			20	103				
12:30		96	126			5	123				
12:45		25	123	243	499	8	102	46	441	289	94
01:00		20	112			2	108				
01:15		9	72			2	101				
01:30		6	86			0	119				
01:45		1	74	36	344	0	113	4	441	40	78
02:00		4	105			2	99				
02:15		3	65			6	115				
02:30		4	108			6	156				
02:45		6	108	17	386	15	172	29	542	46	92
03:00		24	166			7	142				
03:15		2	194			10	168				
03:30		2	137			40	151				
03:45		6	153	34	650	31	162	88	623	122	127
04:00		3	194	٠.	333	50	172		020		
04:15		20	184			68	141				
04:30		26	142			81	108				
04:45		40	218	89	738	119	112	318	533	407	127
05:00		49	209	00	700	122	80	010	000	407	121
05:15		57	185			94	87				
05:30		42	122			115	72				
05:45		46	73	194	589	89	57	420	296	614	88
06:00		43	44	134	309	120	58	420	230	014	00
06:15		55	38			116	36				
06:30		43				134	60				
06:45		51	109 97	192	288	105	49	475	203	667	49
07:00		94		192	200	99	33	4/3	203	007	49
		45	90			99					
07:15			83			89	31				
07:30		47	36	004	004		35	200	444	000	27
07:45		45	22	231	231	110	45	389	144	620	37
08:00		55	96			82	37				
08:15		51	65			91	28				
08:30		69	40		222	104	60		404		
08:45		54	132	229	333	90	59	367	184	596	51
09:00		59	137			87	47				
09:15		59	91			87	37				
09:30		58	83			107	40	_			
09:45		75	70	251	381	95	52	376	176	627	55
10:00		102	49			95	41				
10:15		69	77			96	49				
10:30		70	147			97	51				
10:45		64	103	305	376	123	42	411	183	716	55
11:00		115	68			138	23				
11:15		161	51			108	29				
11:30		99	77			132	32				
11:45		97	55	472	251	131	40	509	124	981	37
Total		2293	5066			3432	3890			5725	895
Percent		31.2%	68.8%			46.9%	53.1%			39.0%	61.09
Grand Tota	al		67 1422	28		105		38		1732	
Percer		32.2				49.2				40.8	

ADT 14,146 ADT AADT 14,146

Location: Airport Road East of Location: S. Perimeter Road City/State: Manchester, NH Counter: 10122

ADT

ADT 14,146

Site Code: 17266004

17266004

Start	19-Oct	-09	Т	ue	V	/ed	7	Гһи	Fr	i	Sa	at	Sur	1	Week Av	verage
Time	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	ĒΒ
12:00 AM	*	*	39	41	100	13	243	46	*	*	*	*	*	*	127	33
01:00	*	*	137	34	23	6	36	4	*	*	*	*	*	*	65	15
02:00	*	*	26	28	10	19	17	29	*	*	*	*	*	*	18	25
03:00	*	*	18	92	21	80	34	88	*	*	*	*	*	*	24	87
04:00	*	*	137	303	62	293	89	318	*	*	*	*	*	*	96	305
05:00	*	*	270	549	211	490	194	420	*	*	*	*	*	*	225	486
06:00	*	*	230	513	204	482	192	475	*	*	*	*	*	*	209	490
07:00	*	*	271	459	218	397	231	389	*	*	*	*	*	*	240	415
08:00	*	*	246	410	211	329	229	367	*	*	*	*	*	*	229	369
09:00	*	*	323	394	253	387	251	376	*	*	*	*	*	*	276	386
10:00	*	*	348	509	299	418	305	411	*	*	*	*	*	*	317	446
11:00	*	*	426	439	391	437	472	509	*	*	*	*	*	*	430	462
12:00 PM	*	*	430	413	429	344	499	441	*	*	*	*	*	*	453	399
01:00	*	*	356	421	353	404	344	441	*	*	*	*	*	*	351	422
02:00	*	*	335	498	268	501	386	542	*	*	*	*	*	*	330	514
03:00	*	*	650	559	621	547	650	623	*	*	*	*	*	*	640	576
04:00	*	*	607	422	619	470	738	533	*	*	*	*	*	*	655	475
05:00	*	*	423	296	547	266	589	296	*	*	*	*	*	*	520	286
06:00	*	*	352	182	263	181	288	203	*	*	*	*	*	*	301	189
07:00	*	*	284	126	316	162	231	144	*	*	*	*	*	*	277	144
08:00	*	*	244	147	291	152	333	184	*	*	*	*	*	*	289	161
09:00	*	*	164	172	240	176	381	176	*	*	*	*	*	*	262	175
10:00	*	*	401	197	376	157	376	183	*	*	*	*	*	*	384	179
11:00	*	*	309	92	284	113	251	124	*	*	*	*	*	*	281	110
Lane	0	0	7026	7296	6610	6824	7359	7322	0	0	0	0	0	0	6999	7149
Day	0		143	322	134	34	146		0		0		0		14148	3
AM Peak			11:00	05:00	11:00	05:00	11:00	11:00							11:00	06:00
Vol.			426	549	391	490	472	509							430	490
PM Peak			15:00	15:00	15:00	15:00	16:00	15:00							16:00	15:00
Vol.			650	559	621	547	738	623							655	576
Comb. Total		0		14322		13434		14681		0		0		0		14148

AADT 14,146

Location: Airport Road EB West of Location: Terminal City/State: Manchester, NH Counter: 2377

Site Code: 17266005

Start	Tue	20-Oct-09	Wed	21-Oct-09	Thu	22-Oct-09	Daily Av	/erage
Time	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	19	79	19	81	47	76	28	79
12:15	10	62	10	59	34	91	18	71
12:30	7	94	3	69	22	99	11	87
12:45	30	71	6	69	17	116	18	85
01:00	49	87	7	88	4	92	20	89
01:15	48	74	6	79	5	72	20	75
01:30	22	60	6	72	12	75	13	69
01:45	9	88	9	66	8	85	9	80
02:00	10	70	10	89	9	72	10	77
02:15	9	99	11	70	9 7	81	9	83
02:30	9	108	6	94	10	111	8	104
02:45	11	127	9	127	11	130	10	128
03:00	10	145	7	135	9	169	9	150
03:15	3	126	9	133	9	123	7	127
03:13	13	128	10	121	12	147	12	132
		136	16	135	18	149	18	
03:45	20						18	140
04:00	38	126	18	153	31	156	29	145
04:15	43	127	46	139	57	120	49	129
04:30	90	102	54	104	70	111	71	106
04:45	113	93	115	122	118	122	115	112
05:00	142	104	145	82	115	103	134	96
05:15	148	65	133	87	89	77	123	76
05:30	122	53	87	61	91	59	100	58
05:45	93	83	105	43	80	47	93	58
06:00	99	83	104	39	101	52	101	58
06:15	107	83	97	72	81	48	95	68
06:30	86	43	71	80	98	58	85	60
06:45	83	56	86	43	65	59	78	53
07:00	90	75	70	49	76	41	79	55
07:15	83	34	51	74	78	25	71	44
07:30	95	32	60	49	64	38	73	40
07:45	93	22	92	49	73	49	86	40
08:00	73	31	55	34	75	55	68	40
08:15	76	28	45	35	69	25	63	29
08:30	72	74	66	53	83	86	74	71
08:45	78	70	68	79	89	97	78	82
09:00	89	58	72	45	70	70	77	58
09:15	83	43	70	59	63	78	72	60
09:30	74	51	90	60	83	45	82	52
09:45	97	92	101	92	85	76	94	87
10:00	86	132	70	66	83	72	83	90
10:15	113	107	79 95	82	91	74	100	88
10:13	135	53	81	62	68	60	95	58
10:45	122	46	81	55 50	104	34	102	45
11:00	113	46	97	50	143	48	118	48
11:15	111	87	94	55	101	66	102	69
11:30	94	68	100	58	108	92	101	73
11:45	90	52	92	52	118	113	100	72
Total	3310	3773	2764	3670	2954	3944	3011	3796
Combined Total	70	83	643	34	689	98	6807	•
Peak	04:45	03:00	04:45	03:30	11:00	03:00	04:45	03:00
Vol.	525	535	480	548	470	588	472	549
	0.887	0.922	0.828	0.895	0.822	0.870	0.881	0.915
P.H.F.	U.OO7							

Location: Airport Road EB West of Location: Terminal City/State: Manchester, NH Counter: 2377

ADT

ADT 6,805

AADT 6,805

Site Code: 17266005 17266005

Start	Mon	Tue	Wed	Thu	Fri	Average		Sun	Week	
Time	19-Oct-09	20-Oct-09	21-Oct-09	22-Oct-09	23-Oct-09	Day	24-Oct-09	25-Oct-09		
12:00 AM	*	66	38	120	*	75	*	*	75	
01:00	*	128	28	29	*	62	*	*	62	
02:00	*	39	36	37	*	37	*	*	37	
03:00	*	46	42	48	*	45	*	*	45	
04:00	*	284	233	276	*	264	*	*	264	
05:00	*	505	470	375	*	450	*	*	450	
06:00	*	375	358	345	*	359	*	*	359	
07:00	*	361	273	291	*	308	*	*	308	
08:00	*	299	234	316	*	283	*	*	283	
09:00	*	343	333	301	*	326	*	*	326	
10:00	*	456	336	346	*	379	*	*	379	
11:00	*	408	383	470	*	420	*	*	420	
12:00 PM	*	306	278	382	*	322	*	*	322	
01:00	*	309	305	324	*	313	*	*	313	
02:00	*	404	380	394	*	393	*	*	393	
03:00	*	535	524	588	*	549	*	*	549	
04:00	*	448	518	509	*	492	*	*	492	
05:00	*	305	273	286	*	288	*	*	288	
06:00	*	265	234	217	*	239	*	*	239	
07:00	*	163	221	153	*	179	*	*	179	<u> </u>
08:00	*	203	201	263	*	222	*	*	222	
09:00	*	244	256	269	*	256	*	*	256	
10:00	*	338	265	240	*	281	*	*	281	
11:00	*	253	215	319	*	262	*	*	262	
Day Total	0	7083	6434	6898	0	6804	0	0	6804	
% Avg.	0.0%				0.0%					
WkDay	0.0%	104.1%	94.6%	101.4%	0.0%					
Avg. Week	0.0%	104.1%	94.6%	101.4%	0.0%	100.0%	0.0%	0.0%		
AM Peak		05:00	05:00	11:00		05:00			05:00	
Vol.		505	470	470		450			450	
PM Peak		15:00	15:00	15:00		15:00			15:00	
Vol.		535	524	588		549			549	
Grand Total		0 70	083 64	.34 68	398	0	6804	0	0 6804	

Location: Shephard Drive @ Terminal

Location:

City/State: Manchester, NH Counter : 103

Site Code: 17266006

Start	Tue	20-Oct-09	Wed	21-Oct-09	Thu	22-Oct-09	Daily A	verage
Time	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	7	44	12	47	23	41	14	4
12:15	0	36	1	39	20	55	7	4:
12:30	3	54	<u>i</u>	35	16	56	7	48
12:45	11	42	1	35	5	67	6	48
01:00	28	54	2	51	0	54	10	53
01:15	28	37	1	43	1	40	10	40
01:30	9	36	3	39		40	5	38
01:45	1	48	2	32	2	42	2	4
02:00	4	32	1	40	2	44	3	39
02:00	5	50	4	33	3 2	39	4	4
02:13		55		55		59 51		
	2	00	1	62	5 2	77	3	54
02:45	3	67	2			77	2	69
03:00	4	76	2	79 70	4	99	3	85
03:15	0	75	2	76	2	71	1	74
03:30	3	66	3	72	6	94	4	7
03:45	8	78	8	67	7	83	8	76
04:00	18	67	7	84	13	99	13	83
04:15	23	78	24	80	38	73	28	77
04:30	53	52	29	59	45	61	42	57
04:45	54	45	63	62	68	62	62	56
05:00	83	55	89	48	73	63	82	55
05:15	88	27	59	49	59	44	69	40
05:30	58	26	47	30	55	29	53	28
05:45	54	44	64	21	55	20	58	28
06:00	50	44	43	13	57	24	50	27
06:15	55	41	59	30	59	23	58	31
06:30	45	16	31	38	57	31	44	28
06:45	35	23	52	16	33	30	40	23
07:00	40	41	44	25	49	13	44	26
07:15	41	12	23	32	44	11	36	18
07:30	60	14	33	19	42	13	45	15
07:45	40	7	55	20	44	22	46	16
08:00	46	10	34	11	43	26	41	16
08:15	42	10	25	13	42	6	36	10
08:30	42	32	38	23	53	40	44	32
08:45		33	37	37	48	57		
	39		37				41	42
09:00	53	33	38	20	44	36	45	30
09:15	49	14	41	21	33	41	41	25
09:30	40	20	48	25	53	21	47	2:
09:45	60	45	59	47	59	40	59	44
10:00	35	75	37	23	49	32	40	43
10:15	64	57	48	38	57	37	56	44
10:30	76	18	52	26	36	29	55	24
10:45	71	15	50	20	54	13	58	16
11:00	64	18	58	24	92	19	71	20
11:15	77	42	60	22	62	31	66	3
11:30	52	38	53	31	59	46	55	38
11:45	54	19	48	22	69	62	57	34
Total	1777	1921	1494	1834	1744	2107	1671	1950
Combined Total	36		33		38		362	
Peak	10:30	03:00	05:00	03:30	11:00	03:30	04:45	03:30
Vol.	288	295	259	303	282	349	266	313
	0.818	0.946	0.728	0.902	0.766	0.881	0.811	0.943
P.H.F.								

Location: Shephard Drive @ Terminal Location: City/State: Manchester, NH Counter: 103

ADT

ADT 3,626

AADT 3,626

Site Code: 17266006

Start	Mon	Tue	Wed	Thu	Fri	Average		Sun	Week	
Time	19-Oct-09	20-Oct-09				Day	24-Oct-09			
12:00 AM	*	21	15	64	*	33	*	*		
01:00	*	66	8	5	*	26	*	*	26	
02:00	*	14	8	12	*	11	*	*	11	
03:00	*	15	15	19	*	16	*	*	16	
04:00	*	148	123	164	*	145	*	*	145	
05:00	*	283	259	242	*	261	*	*	261	
06:00	*	185	185	206	*	192	*	*	192	
07:00	*	181	155	179	*	172	*	*	172	
08:00	*	169	134	186	*	163	*	*	163	
09:00	*	202	186	189	*	192	*	*	192	
10:00	*	246	187	196	*	210	*	*	210	
11:00	*	247	219	282	*	249	*	*	249	
12:00 PM	*	176	156	219	*	184	*	*	184	
01:00	*	175	165	176	*	172	*	*	172	
02:00	*	204	190	211	*	202	*	*	202	
03:00	*	295	294	347	*	312	*	*	312	
04:00	*	242	285	295	*	274	*	*	274	
05:00	*	152	148	156	*	152	*	*	152	
06:00	*	124	97	108	*	110	*	*	110	
07:00	*	74	96	59	*	76	*	*	76	
08:00	*	85	84	129	*	99	*	*	99	
09:00	*	112	113	138	*	121	*	*	121	
10:00	*	165	107	111	*	128	*	*	128	
11:00	*	117	99	158	*	125	*	*	125	
Day Total	0	3698	3328	3851	0	3625	0	0	3625	
% Avg. WkDay	0.0%	102.0%	91.8%	106.2%	0.0%					
Avg. Week	0.0%	102.0%	91.8%	106.2%	0.0%	100.0%	0.0%	0.0%		
AM Peak	,	05:00	05:00	11:00		05:00	2.370		05:00	
Vol.		283	259	282		261			261	
PM Peak		15:00	15:00	15:00		15:00			15:00	
Vol.		295	294	347		312			312	
Grand Tota	I				851		3625	0	0	3625

Location: Allard Drive North of Location: Garage Drive City/State: Manchester, NH Counter: 2582

Site Code: 17266007

Start	Tue	20-Oct-09	Wed	21-Oct-09	Thu	22-Oct-09	Daily Av	
Time	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	14	46	31	57	22	49	22	5
12:15	3	52	7	51	44	60	18	5
12:30	5	61	4	44	22	65	10	5
12:45	19	51	7	45	15	76	14	5
01:00	28	60	7	53	7	66	14	6
01:15	43	41	6	50	4	52	18	4
01:30	14	49	7	43	9	47	10	4
01:45	13	53	3	45	7	52	8	5
02:00	5	42	7	52	4	53	5	4
02:15	11	57	6	44	5	44	7	4
02:30	9	73	3	59	9	52	7	6
02:45	6	58	6	75	9	79	7	7
03:00	7	103	4	87	5	102	5	9
03:15	2	77	7	89	6	97	5	8
03:30	9	87	6	85	10	98	8	9
03:45	12	95	9	74	12	99	11	8
04:00	28	77	12	97	16	108	19	9
04:00	29	86	32	100	35	84	32	9
04:13		63	38	66	47	64	46	
04:45	54 64	70	57	74	86	93	69	6 7
05:00	90	68	105	63	78	88	91	7
05:15	88	42	63	73	73	62	75	5
05:30	81	35	55	42	69	51	68	4
05:45	55	54	57	31	54	25	55	3
06:00	70	47	56	21	64	32	63	3
06:15	54	62	69	36	69	27	64	4
06:30	55	27	41	58	58	46	51	4
06:45	44	25	53	30	38	42	45	3
07:00	41	50	45	27	56	26	47	3
07:15	47	34	36	42	47	19	43	3
07:30	57	24	35	36	50	20	47	2
07:45	56	14	51	30	50	21	52	2
08:00	54	15	51	23	55	42	53	2
08:15	49	16	37	20	46	14	44	1
08:30	50	54	36	37	52	45	46	4
08:45	46	42	47	44	51	78	48	5
09:00	61	40	43	34	61	40	55	3
09:15	48	25	39	35	40	56	42	3
09:30	50	25	54	30	52	34	52	3
09:45	60	44	75	40	63	41	66	4
10:00	50	86	45	50	68	44	54	6
10:15	71	85	60	56	59	46	63	6
10:30	80	37	49	46	44	61	58	4
10:45	80	23	58	30	57	20	65	2
11:00	87	32	71	33	100	20	86	2
11:15	75	48	68	32	79	48	74	4
11:30	65	58	57	37	65	63	62	5
11:45	67	25	63	35	81	59	70	4
Total	2106	2438	1778	2361	2053	2610	1974	247
Combined Total	45		413		466		4446	
Peak	04:45	03:00	04:45	03:30	11:00	03:15	04:45	03:0
Vol. P.H.F.	323 0.897	362 0.879	280 0.667	356 0.890	325 0.813	402 0.931	303 0.832	36 0.93
	11847	U 8/9	Uhh/	UXYU		U 9.5 I	11 X 4 /	11 47

Location: Allard Drive North of Location: Garage Drive City/State: Manchester, NH Counter: 2582

ADT

ADT 4,449

AADT 4,449

Site Code: 17266007 17266007

Start	Mon	Tue	Wed	Thu	Fri	Average		Sun	Week	
Time	19-Oct-09	20-Oct-09		22-Oct-09	23-Oct-09	Day	24-Oct-09	25-Oct-09	Average	
12:00 AM	*	41	49	103	*	64	*	*	64	
01:00	*	98	23	27	*	49	*	*	49	
02:00	*	31	22	27	*	27	*	*	27	
03:00	*	30	26	33	*	30	*	*	30	
04:00	*	175	139	184	*	166	*	*	166	
05:00	*	314	280	274	*	289	*	*	289	
06:00	*	223	219	229	*	224	*	*	224	
07:00	*	201	167	203	*	190	*	*	190	
08:00	*	199	171	204	*	191	*	*	191	
09:00	*	219	211	216	*	215	*	*	215	
10:00	*	281	212	228	*	240	*	*	240	
11:00	*	294	259	325	*	293	*	*	293	
12:00 PM	*	210	197	250	*	219	*	*	219	
01:00	*	203	191	217	*	204	*	*	204	
02:00	*	230	230	228	*	229	*	*	229	
03:00	*	362	335	396	*	364	*	*	364	<u> </u>
04:00	*	296	337	349	*	327	*	*	327	
05:00	*	199	209	226	*	211	*	*	211	
06:00	*	161	145	147	*	151	*	*	151	
07:00	*	122	135	86	*	114	*	*	114	
08:00	*	127	124	179	*	143	*	*	143	
09:00	*	134	139	171	*	148	*	*	148	
10:00	*	231	182	171	*	195	*	*	195	
11:00	*	163	137	190	*	163	*	*	163	
Day Total	0	4544	4139	4663	0	4446	0	0	4446	 _
% Avg. WkDay	0.0%	102.2%	93.1%	104.9%	0.0%					
Avg. Week	0.0%	102.2%	93.1%	104.9%	0.0%	100.0%	0.0%	0.0%		
AM Peak		05:00	05:00	11:00		11:00			11:00	
Vol.		314	280	325		293			293	
PM Peak		15:00	16:00	15:00		15:00			15:00	
Vol.		362	337	396		364			364	
Grand Total	<u> </u>				663		4446	0	0 4446	

Location: French Drive West of Location: Allard Drive
City/State: Manchester, NH
Counter: 5865

Site Code: 17266008

Start	Tue	20-Oct-09	Wed	21-Oct-09	Thu	22-Oct-09	Daily A	verage
Time	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	11	40		49	21	39	19	43
12:15	1	44	25 6	40	37	52	15	45
12:30	4	55	2	41	20	55	9	50
12:45	14	39	6	36	10	66	10	47
01:00	22	47	3	41	3	52	9	47
01:15	42	35	3	41	3	43	16	40
01:30	10	45	3	33	2	36	5	38
01:45	10	46	1	33	2 2	43	4	41
02:00	4	34	2	39	1	41	2	38
02:15	8	50	1	38	4	36	4	41
02:30	4	66	1	52	3	44	3	54
02:45	3	52	2	59	2	68	2	60
03:00	6	99	2	79	4	88	4	89
03:00	1	70	3	75	2	82	2	76
03:30	5	78	1	71	6	85	2	78
							7	
03:45	10	84	4	61	6	86		77
04:00	21	70	4	81	10	95	12	82
04:15	24	77	21	89	29	64	25	77
04:30	45	60	23	56	35	57	34	58
04:45	52	61	44	71	47	85	48	72
05:00	64	56	80	52	63	74	69	61
05:15	70	35	48	62	56	56	58	51
05:30	72	31	46	37	52	39	57	36
05:45	46	45	42	24	36	26	41	32
06:00	50	47	42	14	52	27	48	29
06:15	44	55	47	33	50	26	47	38
06:30	48	24	33	50	34	41	38	38
06:45	34	21	40	25	27	39	34	28
07:00	31	47	37	25	36	17	35	30
07:15	41	32	24	34	34	14	33	27
07:30	47	20	29	30	40	19	39	23
07:45	46	9	41	25	33	19	40	18
08:00	43	10	36	16	37	34	39	20
08:15	39	10	26	14	39	9	35	11
08:30	42	50	32	30	44	9 47	39	
	42		34		20		39	42
08:45	36	37	34	41	39	66	36	48
09:00	51	35	31	28	35	41	39	35
09:15	40	19	31	28	25	53	32	33
09:30	40	21	46	21	38	27	41	23
09:45	55	41	61	41	55	42	57	41
10:00	45	77	28 45	37	50	34	41	49
10:15	58	78	45	49	48	45	50	57
10:30	67	28	40	37	34	49	47	38
10:45	72	18	46	26	42	15	53	20
11:00	75	24	62	27	80	21	72	24
11:15	71	46	58	29	63	44	64	40
11:30	57	51	52	35	50	61	53	49
11:45	61	24	52	28	70	64	61	39
Total	1742	2143	1346	1983	1509	2266	1532	2133
Combined								
Total	38	85	33	29	37	75	3665	5
Peak	10:30	03:00	11:00	03:30	11:00	03:15	11:00	03:00
Vol.	285	331	224	302	263	348	250	320
	200	JJ 1	224		203		250	
P.H.F.	0.950	0.836	0.700	0.848	0.822	0.916	0.868	0.899

Location: French Drive West of Location: Allard Drive City/State: Manchester, NH Counter : 5865

ADT

ADT 3,663

AADT 3,663

Site Code: 17266008 17266008

Start	Mon	Tue	Wed	Thu	Fri	Average	e Sat	Sun	Wee	
Time	19-Oct-09	20-Oct-09	21-Oct-09	22-Oct-09		Day	24-Oct-09	25-Oct-09		
12:00 AM	*	30	39	88	*	52	*	*	52	
01:00	*	84	10	10	*	35	*	*	35	
02:00	*	19	6	10	*	12	*	*		! <u> </u>
03:00	*	22	10	18	*	17	*	*		
04:00	*	142	92	121	*	118	*	*	118	
05:00	*	252	216	207	*	225	*	*	225	
06:00	*	176	162	163	*	167	*	*	167	
07:00	*	165	131	143	*	146	*	*	146	
08:00	*	160	128	159	*	149	*	*	149	
09:00	*	186	169	153	*	169	*	*	169	
10:00	*	242	159	174	*	192	*	*	192	
11:00	*	264	224	263	*	250	*	*	250	
12:00 PM	*	178	166	212	*	185	*	*	185	
01:00	*	173	148	174	*	165	*	*	165	
02:00	*	202	188	189	*	193	*	*	193	
03:00	*	331	286	341	*	319	*	*	319	
04:00	*	268	297	301	*	289	*	*	289	
05:00	*	167	175	195	*	179	*	*	179	
06:00	*	147	122	133	*	134	*	*	134	
07:00	*	108	114	69	*	97	*	*	97	
08:00	*	107	101	156	*	121	*	*	121	
09:00	*	116	118	163	*	132	*	*	132	
10:00	*	201	149	143	*	164	*	*	164	
11:00	*	145	119	190	*	151	*	*	151	
Day Total	0	3885	3329	3775	0	3661	0	0	3661	
% Avg.							· · · · · · · · · · · · · · · · · · ·			
WkDay	0.0%	106.1%	90.9%	103.1%	0.0%					
Avg. Week	0.0%	106.1%	90.9%	103.1%	0.0%	100.0%	0.0%	0.0%		
AM Peak		11:00	11:00	11:00		11:00			11:00	
Vol.		264	224	263		250			250	
PM Peak		15:00	16:00	15:00		15:00			15:00	
Vol.		331	297	341		319			319	
Grand Total					775		3661	0	0	3661

Location: French Drive North of Location: Airport Road City/State: Manchester, NH Counter: 2743

Site Code: 17266009

Start	Tue	20-Oct-09	Wed	21-Oct-09	Thu	22-Oct-09	Daily Av	/erage
Time	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.
12:00	24	111	64	133	54	126	47	123
12:15	8	99	23	125	125	132	52	119
12:30	4	126	6	91	77	127	29	115
12:45	17	111	5	110	23	161	15	127
01:00	32	102	10	88	12	116	18	102
01:15	76	94	8	128	7	100	30	107
01:30	57	91	5	83	7	108	23	94
01:45	13	90	6	81	3	110	7	94
02:00	12	84	9	83	7	119	9	95
02:15	10	110	9	76	6	87	8	91
02:30	8	121	5	104	11	126	8	117
02:45	5	118	4	118	6	141	5	126
03:00	9	219	3	183	5	194	6	199
03:15	5	176	5	194	6	235	5	202
03:30	6	144	3	185	7	156	5	162
03:45	11	178	6	145	10	181	9	168
04:00	35	161	7	176	11	258	18	198
04:15	34	197	20	221	30	199	28	206
04:30	49	148	28	179	38	167	38	165
04:45	63	168	44	182	55	268	54	206
05:00	73	167	91	191	66	220	77	193
05:15	88	117	64	182	68	205	73	168
05:30	90	106	55	140	62	129	69	125
05:45	73	78	59	65	47	81	60	75
06:00	61	114	51	57	65	48	59	73
06:15	69	166	65	80	69	52	68	99
06:30	71	57	61	125	52	150	61	111
06:45	63	71	67	82	48	95	59	83
07:00	72	83	64	69	68	91	68	81
07:15	75	139	60	98	63	77	66	105
07:30	71	60	51	105	72	38	65	68
07:45	75	26	61	101	65	32	67	53
08:00	76	24	71	47	65	135	71	69
08:15	71	15	50	39	62	41	61	32
08:30	78	140	66	86	84	64	76	97
08:45	70	106	66	136	80	205	72	149
09:00	93	92	59	107	83	124	78	108
09:15	92	46	66	71	67	129	75	82
09:30	97	38	91	44	73	77	87	53
09:45	104	62	109	72	111	87	108	74
10:00	94	164	84	101	109	65	96	110
10:15	107	195	89	128	96	116	97	146
10:30	120	103	82	172	79	169	94	148
10:45	143	32	142	63	91	82	125	59
11:00	131	59	119	90	165	38	138	62
11:15	154	127	127	63	163	84	148	91
11:30	103	127	105	91	120	114	109	111
11:45	124	48	110	79	141	114	125	80
Total	3016	5210	2455	5369	2834	5973	2766	5521
Combined Total	82	26	78	24	880	07	8287	•
Peak	10:30	03:00	10:45	04:15	11:00	04:00	10:45	04:00
Vol.	548	717	493	773	589	892	520	775
		0.818	0.868					
P.H.F.	0.890	0.010	0.868	0.874	0.892	0.832	0.878	0.941

Location: French Drive North of Location: Airport Road City/State: Manchester, NH Counter: 2743

ADT

ADT 8,286

AADT 8,286

Site Code: 17266009 17266009

Start	Mon	Tue	Wed	Thu	Fri	Average	Sat	Sun	Week
Time	19-Oct-09	20-Oct-09	21-Oct-09	22-Oct-09	23-Oct-09	Day	24-Oct-09	25-Oct-09	Average
12:00 AM	*	53	98	279	*	143	*	*	143
01:00	*	178	29	29	*	79	*	*	79
02:00	*	35	27	30	*	31	*	*	31 📗
03:00	*	31	17	28	*	25	*	*	25
04:00	*	181	99	134	*	138	*	*	138
05:00	*	324	269	243	*	279	*	*	279
06:00	*	264	244	234	*	247	*	*	247
07:00	*	293	236	268	*	266	*	*	266
08:00	*	295	253	291	*	280	*	*	280
09:00	*	386	325	334	*	348	*	*	348
10:00	*	464	397	375	*	412	*	*	412
11:00	*	512	461	589	*	521	*	*	521
12:00 PM	*	447	459	546	*	484	*	*	484
01:00	*	377	380	434	*	397	*	*	397
02:00	*	433	381	473	*	429	*	*	429
03:00	*	717	707	766	*	730	*	*	730
04:00	*	674	758	892	*	775	*	*	775
05:00	*	468	578	635	*	560	*	*	560
06:00	*	408	344	345	*	366	*	*	366
07:00	*	308	373	238	*	306	*	*	306
08:00	*	285	308	445	*	346	*	*	346
09:00	*	238	294	417	*	316	*	*	316
10:00	*	494	464	432	*	463	*	*	463
11:00	*	361	323	350	*	345	*	*	345
Day Total	0	8226	7824	8807	0	8286	0	0	8286
% Avg. WkDay	0.0%	99.3%	94.4%	106.3%	0.0%	<u> </u>	•	•	
Avg. Week	0.0%	99.3%	94.4%	106.3%	0.0%	100.0%	0.0%	0.0%	
AM Peak		11:00	11:00	11:00		11:00			11:00
Vol.		512	461	589		521			521
PM Peak		15:00	16:00	16:00		16:00			16:00
Vol.		717	758	892		775			775
Grand Tota	 al		26 78		307	0 8286		0	0 8286

Location: S. Perimeter Road South of

Location : Airport Road City/State: Manchester, NH Counter : 5864

Site Code: 17266010

Time	Start	20-Oct-09	Morning Afternoon		Hour	Totals		BB	Hour	Totals	Combin	ed Totals
12:00		Tue	Mornina	Afternoon			Morning	Afternoon				
12:15			22									
12:30			8				3					
12:45			12	58			1	52				
01:00	12:45			58	46	224	6	44	11	192	57	416
01:15	01:00		2				2	61				
01:30	01:15		3	63			2	53				
01:45			4					39				
02:00	01:45		3	33	12	193		58	15	211	27	404
02:15	02:00							53				
02:45			4	38			4	56				
02:45	02:30		2	70			2	44				
03:30	02:45		5		13	226		58	17	211	30	437
03:30	03:00		2	55			2	54				
03:45	03:15		5	52			16					
04:00 9 88 9 9 49 04:15 8 59 27 42 04:30 7 83 3 37 306 38 48 101 183 138 489 05:00 111 115 22 58 05:15 23 66 40 40 44 05:30 23 70 39 62 05:45 23 53 80 304 74 46 182 210 262 514 06:00 26 40 50 39 06:15 22 32 71 32 06:30 39 35 78 47 06:45 51 29 138 136 98 39 297 157 435 293 07:00 60 52 68 32 07:15 66 29 60 43 07:30 79 34 74 25 07:30 79 34 74 25 07:45 58 33 263 148 105 32 307 132 570 280 08:00 39 30 0 17 09:30 39 30 0 17 09:30 39 30 0 17 09:30 39 30 0 10:55 51 22 30 10:15 51 22 30 10:15 51 22 30 10:15 51 22 30 10:15 51 22 30 10:15 51 22 30 10:15 51 22 30 10:15 51 22 30 116 30 17 09:30 39 30 10 156 56 356 172 11:10 43 15 19 166 38 52 11 179 37 345 75 11:15 38 44 44 42 323 125 11:10 43 15 49 9 166 38 52 11 179 37 345 75 11:15 138 44 14 144 42 323 125 11:10 138 2197 1685 1772 3083 3969	03:30		7	114			13					
04:15	03:45		10	71	24	292	10	61	41	203	65	495
04:30			9				9	49				
04:45	04:15		8	59								
05:00 11 115 29 58 05:15 23 66 40 44 05:30 23 70 39 62 05:45 23 53 80 304 74 46 182 210 262 514 06:00 26 40 50 39 62 60 43 60 60 50 39 60 60 51 29 138 136 98 39 297 157 435 293 60 68 32 66 68 32 66 68 32 66 68 32 66 43 66 33 66 68 32 66 43 68 32 66 43 68 32 66 43 68 32 307 132 570 280 570 280 68 32 307 132 570 280 68 63 45	04:30						27	44				
05:15 23 66 40 44 60:30 23 70 39 62 60 60:00 26 40 304 74 46 182 210 262 514 60:00 26 40 50 39 30 514 60:00 262 514 60:00 39 35 71 32 71 435 293 32 307 132 357 280 30 30 30 30 30 30 30 30 30 30 30 30	04:45				37	306		48	101	183	138	489
05:30 23 70 39 62 20 514 62 514 62 514 62 514 62 514 62 514 62 514 62 514 62 514 66 60 39 60												
05:45 23 53 80 304 74 46 182 210 262 514 06:00 26 40 50 39 39 39 39 39 39 39 39 39 39 39 39 30 39 30 30 39 36 78 47 32 30	05:15		23	66			40	44				
06:00 26 40 50 39 06:15 22 32 71 32 06:30 39 35 78 47 06:45 51 29 138 136 98 39 297 157 435 293 07:00 60 52 68 32 77 435 293 07:15 66 29 68 32 74 25 77 280 07:30 79 34 74 25 77 280 77 280 77 280 77 280 77 280 77 280 77 280 77 280 77 32 307 132 570 280 78 44 4 25 307 132 570 280 78 44 4 53 28 8 8 8 8 8 8 8 8 8 8 8	05:30						39					
06:15 22 32 71 32 32 78 47 47 32 47 32 47 435 293 293 35 78 47 435 293 293 297 157 435 293 293 297 157 435 293 293 297 157 435 293 293 297 157 435 293 293 297 157 435 293 293 297 157 435 293 293 293 297 157 435 293 293 293 293 293 293 293 293 293 293 293 293 293 293 293 280 290 280 <td< td=""><td>05:45</td><td></td><td></td><td>53</td><td>80</td><td>304</td><td></td><td>46</td><td>182</td><td>210</td><td>262</td><td>514</td></td<>	05:45			53	80	304		46	182	210	262	514
06:30 39 35 78 47 06:45 51 29 138 136 98 39 297 157 435 293 07:00 60 52 68 32 707 157 435 293 07:15 66 29 60 43 435 293 07:30 79 34 74 25 307 132 570 280 08:00 39 36 63 45 30 70 132 570 280 08:00 39 36 63 45 30 307 132 570 280 08:05 63 31 67 36 30 45 30 307 132 570 280 08:45 67 36 63 34 45 29 235 138 475 269 09:00 72 30 51 10 50	06:00		26				50	39				
06:45 51 29 138 136 98 39 297 157 435 293 07:00 60 52 60 43 32 435 293 07:15 66 29 60 43 43 435 436 4475 448 4475 248 4475 249 4475 249 4475 249 4475 249 4475 249 4475 249 4475 249 4475 449 4475 448 4475 448 4475 <td>06:15</td> <td></td> <td></td> <td>32</td> <td></td> <td></td> <td>71</td> <td>32</td> <td></td> <td></td> <td></td> <td></td>	06:15			32			71	32				
07:00 60 52 68 32 07:15 66 29 74 25 07:30 79 34 74 25 07:45 58 33 263 148 105 32 307 132 570 280 08:00 39 36 63 45 66 45 67 36 68 68 45 67 36 68 68 68 45 67 36 67 36 67 36 67 36 67 36 67 36 67 36 67 36 67 36 68 68 45 68 68 45 67 36 67 36 68 68 45 69 68 68 75 20 240 131 52 29 235 138 475 269 69 69 69 45 19 69 69 69 <td< td=""><td>06:30</td><td></td><td>39</td><td>35</td><td></td><td></td><td>78</td><td>47</td><td></td><td></td><td></td><td></td></td<>	06:30		39	35			78	47				
07:15 66 29 60 43 07:30 79 34 74 25 07:45 58 33 263 148 105 32 307 132 570 280 08:00 39 36 63 45 63 45 663 45 67 36 663 45 67 36 69 <td>06:45</td> <td></td> <td></td> <td></td> <td>138</td> <td>136</td> <td></td> <td></td> <td>297</td> <td>157</td> <td>435</td> <td>293</td>	06:45				138	136			297	157	435	293
07:30 79 34 74 25 07:45 58 33 263 148 105 32 307 132 570 280 08:00 39 36 63 45 63 45 63 45 67 36 68 67 36 68 67 36 67 36 67 36 67 36 67 36 67 36 67 36 67 36 67 36 67 36 67 36 67 36 67 36 67 36 67 36 67 36 69	07:00		60	52			68	32				
07:45 58 33 263 148 105 32 307 132 570 280 08:00 39 36 63 45 63 45 63 45 80	07:15											
08:00 39 36 63 45 08:15 63 31 67 36 08:30 51 44 53 28 08:45 87 20 240 131 52 29 235 138 475 269 09:00 72 30 51 10	07:30		79	34			74	25				
08:15 63 31 67 36 08:30 51 44 53 28 08:45 87 20 240 131 52 29 235 138 475 269 09:00 72 30 51 10	07:45			33	263	148		32	307	132	570	280
08:30 51 44 53 28 08:45 87 20 240 131 52 29 235 138 475 269 09:00 72 30 51 10 51 10 70	08:00											
08:45 87 20 240 131 52 29 235 138 475 269 09:00 72 30 51 10 </td <td>08:15</td> <td></td> <td>63</td> <td>31</td> <td></td> <td></td> <td></td> <td>36</td> <td></td> <td></td> <td></td> <td></td>	08:15		63	31				36				
09:00 72 30 51 10 09:15 40 26 30 17 09:30 39 30 45 19 09:45 49 30 200 116 30 10 156 56 356 172 10:00 29 26 29 13 33 33 34 13 33 34 33 34 33 34 33 34	08:30							28				
09:15 40 26 09:30 39 30 09:45 49 30 200 116 30 10 156 56 356 172 10:00 29 26 29 13 10:15 51 22 34 13 10:30 48 18 40 12 11:00 43 15 37 9 11:15 38 4 45 12 11:30 36 10 45 5 11:45 49 9 166 38 52 11 179 37 345 75 Total 1398 2197 1685 1772 3083 3969	08:45		87	20	240	131	52	29	235	138	475	269
09:30 39 30 45 19 09:45 49 30 200 116 30 10 156 56 356 172 10:00 29 26 29 13 13 13 13 13 13 10:15 51 22 34 13 13 13 14 14 14 42 323 125 15 11:00 43 15 37 9 11:15 38 4 45 12 11:30 36 10 45 5 12 11:45 49 9 166 38 52 11 179 37 345 75 Total 1398 2197 1685 1772 3083 3969	09:00						51					
09:45 49 30 200 116 30 10 156 56 356 172 10:00 29 26 29 13 10:15 51 22 34 13 10:30 48 18 40 12 10:45 51 17 179 83 41 4 144 42 323 125 11:00 43 15 37 9 37 9 37 9 45 12 45	09:15		40	26				17				
09:45 49 30 200 116 30 10 156 56 356 172 10:00 29 26 29 13 10:15 51 22 34 13 10:30 48 18 40 12 10:45 51 17 179 83 41 4 144 42 323 125 11:00 43 15 37 9 37 9 37 9 45 12 45	09:30		39	30			45	19				
10:15 51 22 10:30 48 18 10:45 51 17 179 83 41 4 144 42 323 125 11:00 43 15 37 9 37 9 9 11:15 38 4 45 12 45 12 11:30 36 10 45 5 5 11:45 49 9 166 38 52 11 179 37 345 75 Total 1398 2197 1685 1772 3083 3969					200	116		10	156	56	356	172
10:30 48 18 40 12 10:45 51 17 179 83 41 4 144 42 323 125 11:00 43 15 37 9 9 11:15 38 4 45 12 11:30 36 10 45 5 11:45 49 9 166 38 52 11 179 37 345 75 Total 1398 2197 1685 1772 3083 3969	10:00		29	26			29	13				
10:45 51 17 179 83 41 4 144 42 323 125 11:00 43 15 37 9 9 11:15 38 4 45 12 11:30 36 10 45 5 11:45 49 9 166 38 52 11 179 37 345 75 Total 1398 2197 1685 1772 3083 3969	10:15							13				
11:00 43 15 37 9 11:15 38 4 45 12 11:30 36 10 45 5 11:45 49 9 166 38 52 11 179 37 345 75 Total 1398 2197 1685 1772 3083 3969	10:30		48					12				
11:15 38 4 45 12 11:30 36 10 45 5 11:45 49 9 166 38 52 11 179 37 345 75 Total 1398 2197 1685 1772 3083 3969					179	83			144	42	323	125
11:30 36 10 45 5 11:45 49 9 166 38 52 11 179 37 345 75 Total 1398 2197 1685 1772 3083 3969	11:00		43	15			37					
11:30 36 10 45 5 11:45 49 9 166 38 52 11 179 37 345 75 Total 1398 2197 1685 1772 3083 3969			38				45	12				
11:45 49 9 166 38 52 11 179 37 345 75 Total 1398 2197 1685 1772 3083 3969	11:30			10			45					
Total 1398 2197 1685 1772 3083 3969				9	166	38			179	37	345	75
Percent 38.9% 61.1% 48.7% 51.3% 43.7% 56.3%	Total		1398	2197				1772				
	Percent		38.9%	61.1%			48.7%	51.3%			43.7%	56.3%

Location: S. Perimeter Road South of

Location: Airport Road
City/State: Manchester, NH
Counter: 5864

Site Code: 17266010

Start	21-Oct-09	09 NB Morning Afternoon		Hour	Totals		SB	Hour	Totals	Combin	ed Totals
Time	Wed	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		17	53	_		5	44				
12:15		10	51			5	47				
12:30		6	49			0	35				
12:45		7	36	40	189	4	56	14	182	54	371
01:00		2	55			12	50				
01:15		9	45			3	58				
01:30		7	57			2	57				
01:45		8	39	26	196	6	51	23	216	49	412
02:00		3	61			2	54				
02:15		0	44			3	45				
02:30		3	52			2	48				
02:45		1	49	7	206	8	56	15	203	22	409
03:00		2	55	•	200	3	47		200		
03:15		6	48			16	60				
03:30		4	115			8	56				
03:45		8	77	20	295	14	48	41	211	61	506
04:00		2	82	20	200	8	57	• •		01	000
04:15		10	65			36	45				
04:30		14	101			33	58				
04:45		11	76	37	324	43	67	120	227	157	551
05:00		14	104	O1	024	23	58	120	ZZI	107	001
05:15		19	93			26	45				
05:30		22	65			43	54				
05:45		17	45	72	307	59	64	151	221	223	528
06:00		27	46	12	307	60	35	131	221	223	320
06:15		32	54			75	52				
06:30		38	50			63	58				
06:45		68	37	165	187	117	44	315	189	480	376
07:00		83	46	100	107	67	31	313	109	400	3/0
07:00		42	37			52	39				
07:30		65	29			67	28				
07:45		55	31	245	143	110	34	296	132	541	275
08:00		55 51	26	243	143		40	290	132	341	2/5
		91				73	40				
08:15 08:30		91	24 53			70 54	35 37				
		68		240	4.45			007	404	477	070
08:45		30	42	240	145	40	19	237	131	4//	276
09:00		35	31			35	25				
09:15		54	39			35	16				
09:30		48	37	470	400	43	11	4.45	00	0.45	405
09:45		33	22	170	129	32	14	145	66	315	195
10:00		44	21			39	22				
10:15		42	29			41	6				
10:30		57	29	001	00	36	17	450		057	450
10:45		58	20	201	99	40	9	156	54	357	153
11:00		27	14			36	7				
11:15		41	6			36	8				
11:30		53	15			38	11				
11:45		49	6	170	41	41	5	151	31	321	72
Total		1393	2261			1664	1863			3057	4124
Percent		38.1%	61.9%			47.2%	52.8%			42.6%	57.4%

Location: S. Perimeter Road South of

Location: Airport Road City/State: Manchester, NH Counter: 5864

Site Code: 17266010

17266010

Time Thu 12:00 12:15 12:30 12:45 01:00 01:15 01:30 01:45 02:00 02:15 02:30 02:45 03:00 03:15 03:30 03:45 04:00 04:15 04:30 04:45 05:00 05:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 09:45 10:00 09:15 09:30 09:45 10:00 10:15 11:00 11:15 11:30	Morning 14 19	Afternoon	Mornina	Afternoon	SB		N 4 : :			
12:15 12:30 12:45 01:00 01:15 01:30 01:45 02:00 02:15 02:30 02:45 03:00 03:15 03:30 03:45 04:00 04:15 04:30 04:45 05:00 05:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	19			Aitemoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoo
12:30 12:45 01:00 01:15 01:30 01:45 02:00 02:15 02:30 02:45 03:00 03:15 03:30 03:45 04:00 04:15 04:30 04:45 05:00 05:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15		67			4	55				
12:45 01:00 01:15 01:30 01:45 02:00 02:15 02:30 02:45 03:00 03:15 03:30 03:45 04:00 04:15 04:30 04:45 05:00 05:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	0	43			5	61				
01:00 01:15 01:30 01:45 02:00 02:15 02:30 02:45 03:00 03:15 03:30 03:45 04:00 04:15 04:30 04:45 05:00 05:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	8	65			5	57				
01:15 01:30 01:45 02:00 02:15 02:30 02:45 03:00 03:15 03:30 03:45 04:00 04:15 04:30 04:45 05:00 05:15 05:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	4	42	45	217	8	55	22	228	67	44
01:30 01:45 02:00 02:15 02:30 02:45 03:00 03:15 03:30 03:45 04:00 04:15 04:30 04:45 05:00 05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	10	49			6	37				
01:45 02:00 02:15 02:30 02:45 03:00 03:15 03:30 03:45 04:00 04:15 04:30 04:45 05:00 05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	3	30			5	44				
02:00 02:15 02:30 02:45 03:00 03:15 03:30 03:45 04:00 04:15 04:30 04:45 05:00 05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	4	54			5	48				
02:15 02:30 02:45 03:00 03:15 03:30 03:45 04:00 04:15 04:30 04:45 05:00 05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	4	51	21	184	2	63	18	192	39	37
02:30 02:45 03:00 03:15 03:30 03:45 04:00 04:15 04:30 04:45 05:00 05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	1	59			1	46				
02:45 03:00 03:15 03:30 03:45 04:00 04:15 04:30 04:45 05:00 05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	3	41			1	57				
02:45 03:00 03:15 03:30 03:45 04:00 04:15 04:30 04:45 05:00 05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	0	71			8	55				
03:15 03:30 03:45 04:00 04:15 04:30 04:45 05:00 05:15 06:30 06:45 07:00 07:15 07:30 07:45 08:30 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	5	50	9	221	4	52	14	210	23	43
03:30 03:45 04:00 04:15 04:30 04:45 05:00 05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:30 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	5	60			5	61				
03:45 04:00 04:15 04:30 04:45 05:00 05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	2	66			11	58				
04:00 04:15 04:30 04:45 05:00 05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	9	114			7	59				
04:00 04:15 04:30 04:45 05:00 05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	9	96	25	336	15	61	38	239	63	57
04:15 04:30 04:45 05:00 05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	8	88			8	62				
04:30 04:45 05:00 05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	10	65			31	50				
04:45 05:00 05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	11	90			34	61				
05:00 05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	15	69	44	312	40	61	113	234	157	54
05:15 05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	15	105			33	63				
05:30 05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	22	87			34	61				
05:45 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	20	62			48	52				
06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	30	52	87	306	54	76	169	252	256	55
06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	20	58	0,	000	52	45	100	202	200	
06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	28	38			56	35				
06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	50	45			74	45				
07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	53	39	151	180	100	39	282	164	433	34
07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	53	39	101	100	64	45	202	104	400	J-1
07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	42	23			59	41				
07:45 08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	55	21			81	31				
08:00 08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	60	44	210	127	110	51	314	168	524	29
08:15 08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	58	37	210	121	79	40	314	100	324	28
08:30 08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	75	21			69	26				
08:45 09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15										
09:00 09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	56 47	62	236	162	68 44	35 19	260	120	496	28
09:15 09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15		42	230	102			200	120	490	20
09:30 09:45 10:00 10:15 10:30 10:45 11:00 11:15	55	33 28			51 22	21				
09:45 10:00 10:15 10:30 10:45 11:00 11:15	34					14				
10:00 10:15 10:30 10:45 11:00 11:15	35	32	457	407	33	22	4.40	74	200	20
10:15 10:30 10:45 11:00 11:15	33	44	157	137	37	14	143	71	300	20
10:30 10:45 11:00 11:15	32	21			43	12				
10:45 11:00 11:15	45	22			40	24				
11:00 11:15	42	27	400	00	39	13	400	0.4	000	4.
11:15	49	22	168	92	40	15	162	64	330	15
	38	19			41	9				
11.20	37	11			54	9				
	53	12			59	6				
11:45	48	11	176	53	44	9	198	33	374	3
Total	1329	2327			1733	1975			3062	430
Percent	36.4%	63.6%			46.7%	53.3%			41.6%	58.4
Grand Total Percent		120 678 .8% 62.2			50 47.)82 56° 5% 52.5			920 42.6°	

AADT 7,199 ADT ADT 7,199

Location: S. Perimeter Road South of

Location: Airport Road City/State: Manchester, NH Counter: 5864

Site Code: 17266010

Start	19-Oct	t-09	T	ue	W	ed	7	Γhu	Fr	i	Sa	at	Sur)	Week A	verage
Time	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
12:00 AM	*	*	46	11	40	14	45	22	*	*	*	*	*	*	44	16
01:00	*	*	12	15	26	23	21	18	*	*	*	*	*	*	20	19
02:00	*	*	13	17	7	15	9	14	*	*	*	*	*	*	10	15
03:00	*	*	24	41	20	41	25	38	*	*	*	*	*	*	23	40
04:00	*	*	37	101	37	120	44	113	*	*	*	*	*	*	39	111
05:00	*	*	80	182	72	151	87	169	*	*	*	*	*	*	80	167
06:00	*	*	138	297	165	315	151	282	*	*	*	*	*	*	151	298
07:00	*	*	263	307	245	296	210	314	*	*	*	*	*	*	239	306
08:00	*	*	240	235	240	237	236	260	*	*	*	*	*	*	239	244
09:00	*	*	200	156	170	145	157	143	*	*	*	*	*	*	176	148
10:00	*	*	179	144	201	156	168	162	*	*	*	*	*	*	183	154
11:00	*	*	166	179	170	151	176	198	*	*	*	*	*	*	171	176
12:00 PM	*	*	224	192	189	182	217	228	*	*	*	*	*	*	210	201
01:00	*	*	193	211	196	216	184	192	*	*	*	*	*	*	191	206
02:00	*	*	226	211	206	203	221	210	*	*	*	*	*	*	218	208
03:00	*	*	292	203	295	211	336	239	*	*	*	*	*	*	308	218
04:00	*	*	306	183	324	227	312	234	*	*	*	*	*	*	314	215
05:00	*	*	304	210	307	221	306	252	*	*	*	*	*	*	306	228
06:00	*	*	136	157	187	189	180	164	*	*	*	*	*	*	168	170
07:00	*	*	148	132	143	132	127	168	*	*	*	*	*	*	139	144
08:00	*	*	131	138	145	131	162	120	*	*	*	*	*	*	146	130
09:00	*	*	116	56	129	66	137	71	*	*	*	*	*	*	127	64
10:00	*	*	83	42	99	54	92	64	*	*	*	*	*	*	91	53
11:00	*	*	38	37	41	31	53	33	*	*	*	*	*	*	44	34
Lane	0	0	3595	3457	3654	3527	3656	3708	0	0	0	0	0	0	3637	3565
Day	0		70		718		73		0		0		0		7202	
AM Peak			07:00	07:00	07:00	06:00	08:00	07:00							07:00	07:00
Vol.			263	307	245	315	236	314							239	306
PM Peak			16:00	13:00	16:00	16:00	15:00	17:00							16:00	17:00
Vol.			306	211	324	227	336	252							314	228
Comb. Total		0		7052		7181		7364		0		0		0		7202
ADT		ADT	7,199	A	AADT 7,199											

Location: S. Perimeter Road North of Location: Woodlawn Avenue
City/State: Manchester, NH
Counter: 192

Site Code: 17266011

Start	20-Oct-09	N	IB	Hour	Totals		SB	Hour	Totals	Combin	ed Totals
Time	Tue	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning		Morning	Afternoon
12:00		19	65			2	39				
12:15		7	35			5	44				
12:30		12	48			1	48				
12:45		2	41	40	189	6	45	14	176	54	365
01:00		3	41			2	45				
01:15		3	44			1	43				
01:30		6	37			7	37				
01:45		4	26	16	148	5	55	15	180	31	328
02:00		6	54			5	50				
02:15		5	32			5	55				
02:30		2	65			2	39				
02:45		5	57	18	208	6	69	18	213	36	421
03:00		2	44			3	46				
03:15		1	65			12	50				
03:30		10	107			8	35				
03:45		7	64	20	280	8	47	31	178	51	458
04:00		10	90			7	41				
04:15		10	53			21	40				
04:30		11	79			21	49				
04:45		11	75	42	297	34	39	83	169	125	466
05:00		14	108			29	47				
05:15		27	70			43	44				
05:30		34	71			40	55				
05:45		32	57	107	306	69	56	181	202	288	508
06:00		31	41			48	43				
06:15		24	31			54	32				
06:30		45	33			77	53				
06:45		61	34	161	139	104	39	283	167	444	306
07:00		63	51			60	24				
07:15		52	28			60	53				
07:30		75	41			56	22				
07:45		61	32	251	152	100	36	276	135	527	287
08:00		41	45		.02	63	39	2.0	.00	02.	_0.
08:15		54	26			59	37				
08:30		41	42			53	36				
08:45		93	28	229	141	44	24	219	136	448	277
09:00		74	29	220		41	11	210	100	110	2,,
09:15		51	22			59	17				
09:30		35	24			32	17				
09:45		52	31	212	106	48	11	180	56	392	162
10:00		24	24	212	100	24	17	100	00	002	102
10:15		38	22			26	11				
10:30		42	19			31	14				
10:45		41	14	145	79	36	4	117	46	262	125
11:00		37	19	140	7.0	29	11	117		202	120
11:15		37	3			31	13				
11:30		29	9			44	4				
11:45		50	11	153	42	47	8	151	36	304	78
Total		1394	2087	100	72	1568	1694	101	30	2962	3781
Percent		40.0%	60.0%			48.1%	51.9%			43.9%	56.1%
i Ciccill		4 0.0 /0	00.070			1 0.1/0	J 1.3 /0			7J.J/0	JU. 1 /0

Location: S. Perimeter Road North of Location: Woodlawn Avenue City/State: Manchester, NH Counter: 192

Site Code: 17266011

Start	21-Oct-09			Hour	Totals		SB	Hour	Totals	Combin	ed Totals
Time	Wed	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Mornina	Afternoon	Morning	Afternoon
12:00		17	53		7	7	35		7		7
12:15		11	52			5	46				
12:30		5	43			1	34				
12:45		5 7	34	40	182	5	49	18	164	58	346
01:00		2	40			4	50				
01:15		8	38			9	53				
01:30		12	48			1	49				
01:45		8	44	30	170	5	53	19	205	49	375
02:00		3	51			2	49				
02:15		0	45			2	44				
02:30		3	47			3	46				
02:45		1	45	7	188	7	45	14	184	21	372
03:00		3	47			5	49				
03:15		4	43			13	59				
03:30		8	109			8	54				
03:45		7	82	22	281	9	45	35	207	57	488
04:00		3	83		20.	8	53	00		0.	.00
04:15		10	59			31	45				
04:30		17	90			28	53				
04:45		13	82	43	314	34	64	101	215	144	529
05:00		13	103			28	60				
05:15		25	88			28	45				
05:30		22	70			45	48				
05:45		16	52	76	313	58	64	159	217	235	530
06:00		34	43			57	37				
06:15		33	53			63	47				
06:30		33	40			70	62				
06:45		86	34	186	170	100	45	290	191	476	361
07:00		77	45			73	23				
07:15		40	34			54	52				
07:30		66	30			59	26				
07:45		56	24	239	133	102	37	288	138	527	271
08:00		57	29			65	41				
08:15		78	29			55	35				
08:30		67	48			55	40				
08:45		26	44	228	150	34	19	209	135	437	285
09:00		40	29			27	21				
09:15		44	29			36	14				
09:30		46	30			34	13				
09:45		31	13	161	101	35	12	132	60	293	161
10:00		36	27			34	17				
10:15		40	23			37	7				
10:30		48	29			28	16				
10:45		49	19	173	98	37	11	136	51	309	149
11:00		27	13			42	5				
11:15		36	5			34	8				
11:30		51	16			36	10				
11:45		52	2	166	36	36	7	148	30	314	66
Total		1371	2136			1549	1797			2920	3933
Percent		39.1%	60.9%			46.3%	53.7%			42.6%	57.4%
i Giociil		00.170	00.070			70.070	00.7 /0			72.070	J1.70

Location: S. Perimeter Road North of Location: Woodlawn Avenue
City/State: Manchester, NH

Counter: 192

Site Code: 17266011

17266011

Start			Totals	SB		Hour	Totals	Combined Totals			
Time	Thu	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		13	67			7	50				
12:15		17	39			4	54				
12:30		8	57			6	50				
12:45		8	44	46	207	6	54	23	208	69	415
01:00		13	40			5	32				
01:15		3	27			6	44				
01:30		5	50			4	37				
01:45		4	38	25	155	2	50	17	163	42	318
02:00		1	57		.00	1	40				0.1
02:15		1	36			1	55				
02:30		3	56			8	56				
02:45		5	44	10	193	4	42	14	193	24	386
03:00		3	50	10	133	3	57	17	155	24	300
03:15		5	60			11	53				
03:30		10	111			5	61				
03:45		9	85	27	306	11	59	30	230	57	536
03.43		7	87	21	300	7	51	30	230	31	33
04:00		14	62			26	43				
04:13		8	86			33	46				
04:45		14	64	43	299	33	52	99	192	142	49
				43	299	27	56	99	192	142	49
05:00		22 23	101 84			33	55				
05:15						33					
05:30		22 30	58	0.7	000	49 56	45	405	000	000	F4
05:45			46	97	289		74	165	230	262	519
06:00		23	56			50	43				
06:15		40	38			51	41				
06:30		49	41	405	400	72	49	000	470	4.45	001
06:45		53	27	165	162	107	40	280	173	445	33
07:00		45	38			66	41				
07:15		40	15			57	37				
07:30		64	19			71	29				
07:45		70	38	219	110	96	52	290	159	509	26
08:00		56	38			71	41				
08:15		72	17			56	29				
08:30		57	58			65	32				
08:45		46	41	231	154	39	21	231	123	462	27
09:00		49	31			43	21				
09:15		31	25			20	18				
09:30		33	24			33	22				
09:45		31	44	144	124	26	16	122	77	266	20
10:00		39	21			32	14				
10:15		39	19			32	22				
10:30		32	30			27	15				
10:45		43	19	153	89	37	13	128	64	281	15
11:00		39	19			37	11				
11:15		39	9			42	8				
11:30		46	15			52	5				
11:45		56	8	180	51	42	10	173	34	353	8
Total		1340	2139			1572	1846			2912	398
Percent		38.5%	61.5%			46.0%	54.0%			42.2%	57.89
Grand Tota	al		05 636	52			589 53	37		879	
	41	39.2	000	-		46.	8% 53.2	. .		42.9	

ADT ADT 6,831 AADT 6,831

Location: Perimeter Road North of

Location : Brown Avenue City/State: Manchester, NH Counter : 13866

Site Code: 17266001 17266001

Start	20-Oct-09	N	IB	Hour	Totals		SB	Hour	Totals	Combin	ed Totals
Time	Tue	Morning	Afternoon								
12:00		3	40			10	44				
12:15		2	27			1	34				
12:30		1	39			4	26				
12:45		4	41	10	147	1	38	16	142	26	289
01:00		6	38			3	35				
01:15		2	45			6	43				
01:30		1	34			8	25				
01:45		5	46	14	163	6	47	23	150	37	313
02:00		4	37			0	35				
02:15		4	35			2	34				
02:30		2	44			1	42				
02:45		5	50	15	166	4	32	7	143	22	309
03:00		3	58			2	61	·			
03:15		2	40			0	52				
03:30		3	54			0	54				
03:45		4	37	12	189	2	51	4	218	16	407
04:00		5	65			4	39				
04:15		8	73			4	58				
04:30		13	62			6	34				
04:45		18	61	44	261	9	38	23	169	67	430
05:00		15	80			9	38				
05:15		20	85			14	37				
05:30		15	64			21	51				
05:45		17	50	67	279	31	30	75	156	142	435
06:00		26	33	٠.		19	32	. 0	.00	–	.00
06:15		23	29			31	49				
06:30		29	23			34	31				
06:45		37	27	115	112	54	27	138	139	253	251
07:00		24	27	110		68	22	100	100	200	201
07:15		26	21			75	36				
07:30		30	21			54	21				
07:45		37	15	117	84	63	20	260	99	377	183
08:00		34	19		04	63	20	200	33	011	100
08:15		38	14			58	12				
08:30		21	10			46	25				
08:45		23	20	116	63	35	22	202	79	318	142
09:00		23	19	110	00	36	21	202	7.5	010	172
09:15		18	17			27	20				
09:30		21	18			23	10				
09:45		14	12	76	66	33	7	119	58	195	124
10:00		23	14	70	00	24	18	113	30	100	124
10:15		42	9			35	30				
10:30		26	16			25	24				
10:45		36	9	127	48	37	15	121	87	248	135
11:00		24	11	121	40	49	17	121	37	240	133
11:15		31	3			24	6				
11:30		31	11			28	21				
11:45		43	5	129	30	32	8	133	52	262	82
Total		842	1608	123	30	1121	1492	133	JZ	1963	3100
Percent		34.4%	65.6%			42.9%	57.1%			38.8%	61.2%
Percent		34.470	05.070			44.370	31.170			30.070	01.270

Location: Perimeter Road North of

Location : Brown Avenue City/State: Manchester, NH Counter : 13866

Site Code: 17266001 17266001

Start	21-Oct-09	N	IB	Hour	Totals	5	BB	Hour	Totals	Combin	ed Totals
Time	Wed	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning		Morning	Afternoon
12:00		2	57			12	33				
12:15		1	44			5	36				
12:30		1	33			2	28				
12:45		6	34	10	168	2	44	21	141	31	309
01:00		4	43			3	31				
01:15		2	36			1	47				
01:30		2	30			1	31				
01:45		3	31	11	140	2	31	7	140	18	280
02:00		2	42			0	32				
02:15		5	34			1	31				
02:30		4	43			3	49				
02:45		3	47	14	166	2	52	6	164	20	330
03:00		3	69			3	60				
03:15		3	58			0	54				
03:30		4	64			2	45				
03:45		2	45	12	236	2	48	7	207	19	443
04:00		4	72			1	37				
04:15		8	65			1	33				
04:30		11	41			5	51				
04:45		14	70	37	248	10	46	17	167	54	415
05:00		13	73			10	38				
05:15		17	67			12	47				
05:30		11	49			21	39				
05:45		17	45	58	234	21	30	64	154	122	388
06:00		15	28			16	27				
06:15		19	35			28	31				
06:30		29	21			32	33				
06:45		45	37	108	121	50	28	126	119	234	240
07:00		27	32			61	30	0			
07:15		24	22			68	28				
07:30		42	23			52	19				
07:45		41	31	134	108	52	29	233	106	367	214
08:00		27	20			58	26		.00		
08:15		24	20			52	21				
08:30		22	14			46	10				
08:45		20	23	93	77	47	22	203	79	296	156
09:00		19	20	00		35	18	200	7.0	200	100
09:15		27	10			32	21				
09:30		24	15			24	12				
09:45		29	15	99	60	33	7	124	58	223	118
10:00		35	7	00	00	25	12	124	00	220	110
10:15		15	12			28	17				
10:30		23	13			24	32				
10:45		28	5	101	37	32	17	109	78	210	115
11:00		36	20	.01	01	36	19	.00	, 0	210	110
11:15		35	7			30	7				
11:30		32	9			41	8				
11:45		33	8	136	44	27	10	134	44	270	88
Total		813	1639	100	77	1051	1457	104	77	1864	3096
Percent		33.2%	66.8%			41.9%	58.1%			37.6%	62.4%
i Groont		JJ.2 /0	00.070			71.070	00.170			01.070	JZ.7/0

Location: Perimeter Road North of

Location : Brown Avenue City/State: Manchester, NH Counter : 13866

Site Code: 17266001

17266001

Start	22-Oct-09	N	IB	Hour	Totals		SB	Hour	Totals	Combine	ed Totals
Time	Thu	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		2	43			6	43	_			
12:15		6	31			9	32				
12:30		3	29			17	26				
12:45		7	32	18	135	9	37	41	138	59	273
01:00		1	35			1	21				
01:15		2	52			2	56				
01:30		1	49			1	49				
01:45		2	27	6	163	3	40	7	166	13	329
02:00		1	46			2	31				
02:15		6	42			1	43				
02:30		5	38			1	37				
02:45		2	48	14	174	2	44	6	155	20	329
03:00		2	48	• •		2	35	Ü	100	20	020
03:15		4	48			0	42				
03:30		4	51			4	62				
03:45		5	38	15	185	3	49	9	188	24	373
04:00		8	48	15	103	1	50	3	100	24	57.
04:00		6	51			3	62				
04:30		12	58			3	53				
04:30		13	82	39	239	12	40	19	205	58	444
05:00		16	55	39	239	13	34	19	203	30	44.
05:15		13	58			11	33				
05:30		16				16	36				
		18	73	63	255	26	38	66	111	129	200
05:45 06:00			69	63	255			00	141	129	396
		21	60			21 29	43				
06:15		24	48				27				
06:30		26	48	400	404	43 49	30	4.40	100	0.45	046
06:45		32	28	103	184	49	29	142	129	245	313
07:00		31	25			62	24				
07:15		29	28			81	26				
07:30		24	32			63	26				
07:45		36	22	120	107	72	24	278	100	398	207
08:00		41	28			57	25				
08:15		42	20			62	23				
08:30		26	25			39	29				
08:45		21	20	130	93	31	25	189	102	319	19
09:00		19	19			41	8				
09:15		21	24			26	16				
09:30		23	16			21	12				
09:45		21	13	84	72	24	14	112	50	196	122
10:00		19	7			32	5				
10:15		36	9			29	13				
10:30		29	17			31	7				
10:45		34	9	118	42	43	18	135	43	253	8
11:00		42	10			31	21				
11:15		36	12			26	17				
11:30		24	8			27	18				
11:45		44	9	146	39	31	11	115	67	261	10
Total		856	1688			1119	1484			1975	317
Percent		33.6%	66.4%			43.0%	57.0%			38.4%	61.69
Grand Tota	al		11 493	35		32	291 44	33		580	
	-	33.7	7% 66.39			42.				38.2	

AADT 5,057 ADT ADT 5,057

Location: S. Perimeter Road North of

Location: Woodlawn Avenue City/State: Manchester, NH

Counter: 192

Site Code: 17266011 17266011

Start	19-Oct	-09	7	ue	V	Ved	7	Γhu	F	ri	S	at	Sur	า	Week A	verage
Time	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
12:00 AM	*	*	40	14	40	18	46	23	*	*	*	*	*	*	42	18
01:00	*	*	16	15	30	19	25	17	*	*	*	*	*	*	24	17
02:00	*	*	18	18	7	14	10	14	*	*	*	*	*	*	12	15
03:00	*	*	20	31	22	35	27	30	*	*	*	*	*	*	23	32
04:00	*	*	42	83	43	101	43	99	*	*	*	*	*	*	43	94
05:00	*	*	107	181	76	159	97	165	*	*	*	*	*	*	93	168
06:00	*	*	161	283	186	290	165	280	*	*	*	*	*	*	171	284
07:00	*	*	251	276	239	288	219	290	*	*	*	*	*	*	236	285
08:00	*	*	229	219	228	209	231	231	*	*	*	*	*	*	229	220
09:00	*	*	212	180	161	132	144	122	*	*	*	*	*	*	172	145
10:00	*	*	145	117	173	136	153	128	*	*	*	*	*	*	157	127
11:00	*	*	153	151	166	148	180	173	*	*	*	*	*	*	166	157
12:00 PM	*	*	189	176	182	164	207	208	*	*	*	*	*	*	193	183
01:00	*	*	148	180	170	205	155	163	*	*	*	*	*	*	158	183
02:00	*	*	208	213	188	184	193	193	*	*	*	*	*	*	196	197
03:00	*	*	280	178	281	207	306	230	*	*	*	*	*	*	289	205
04:00	*	*	297	169	314	215	299	192	*	*	*	*	*	*	303	192
05:00	*	*	306	202	313	217	289	230	*	*	*	*	*	*	303	216
06:00	*	*	139	167	170	191	162	173	*	*	*	*	*	*	157	177
07:00	*	*	152	135	133	138	110	159	*	*	*	*	*	*	132	144
08:00	*	*	141	136	150	135	154	123	*	*	*	*	*	*	148	131
09:00	*	*	106	56	101	60	124	77	*	*	*	*	*	*	110	64
10:00	*	*	79	46	98	51	89	64	*	*	*	*	*	*	89	54
11:00	*	*	42	36	36	30	51	34	*	*	*	*	*	*	43	33
Lane	0	0	3481	3262	3507	3346	3479	3418	0	0	0	0	0	0	3489	3341
Day	0		67	43	68	53	689	97	0		0		0		683	0
AM Peak			07:00	06:00	07:00	06:00	08:00	07:00							07:00	07:00
Vol.			251	283	239	290	231	290							236	285
PM Peak			17:00	14:00	16:00	17:00	15:00	15:00							16:00	17:00
Vol.			306	213	314	217	306	230							303	216
Comb. Total		0		6743		6853		6897		0		0		0		6830
ADT		ADT	6,831	A	AADT 6,831											

Location: Industrial Drive South of Location: S. Perimeter Road City/State: Manchester, NH Counter: 955

Site Code: 17266012

Start	20-Oct-09	N	IB	Hour	Totals		SB	Hour	Totals	Combin	ed Totals
Time	Tue	Morning	Afternoon	Mornina	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
12:00		3	38		7	3	22		7		7
12:15		0	33			0	35				
12:30		2	32			3	27				
12:45		0	35	5	138	3	34	9	118	14	256
01:00		2	24	-		2	31	-			
01:15		2	22			1	30				
01:30		1	31			4	30				
01:45		2	23	7	100	2	32	9	123	16	223
02:00		1	37			1	46				
02:15		1	19			3	48				
02:30		3	23			1	32				
02:45		6	34	11	113	2	47	7	173	18	286
03:00		4	33			3	35	•			
03:15		3	45			0	37				
03:30		12	57			1	45				
03:45		5	37	24	172	2	38	6	155	30	327
04:00		3	47			4	32	Ū	100	00	OL!
04:15		6	38			3	32				
04:30		14	57			8	36				
04:45		18	54	41	196	7	46	22	146	63	342
05:00		12	85	• • •	100	8	38		110	00	0.12
05:15		24	44			16	36				
05:30		18	54			18	34				
05:45		23	25	77	208	28	32	70	140	147	348
06:00		27	28		200	22	28	70	140	1-77	040
06:15		23	24			23	26				
06:30		39	17			30	25				
06:45		22	22	111	91	43	20	118	99	229	190
07:00		33	29		31	26	16	110	33	223	130
07:15		51	19			35	17				
07:30		60	20			49	10				
07:45		45	5	189	73	64	10	174	53	363	126
08:00		34	17	109	73	54	10	174	33	303	120
08:00		42	12			47	15				
08:30		35	13			47	9				
08:45		23	3	134	45	45	8	193	42	327	87
09:00		31	8	134	45	34	7	193	42	321	01
09:00		20	4			54	10				
09:30		18	4			20	18				
09:45		31	12	100	28	25	18	133	53	233	81
10:00		18	6	100	20	17	11	133	55	233	01
10:15		31				17					
10:30		27	10			30	11 16				
10.30		20	5	106	27	31	4	93	40	100	60
10:45		30	6	106	27			93	42	199	69
11:00		19	8			23	17				
11:15		26	0			25	7				
11:30		29	3	0.7	40	24	4	440	00	007	40
11:45		23	5	97	16	38	2	110	30	207	46
Total		902	1207			944	1174			1846	2381
Percent		42.8%	57.2%			44.6%	55.4%			43.7%	56.3%

Location: Industrial Drive South of Location: S. Perimeter Road City/State: Manchester, NH Counter: 955

Site Code: 17266012

Start	21-Oct-09	N	1B	Hour	Totals	5	BB	Hour	Totals	Combin	ed Totals
Time	Wed	Morning	Afternoon								
12:00		2	39			8	29				
12:15		0	36			6	32				
12:30		2	31			2	21				
12:45		1	30	5	136	0	36	16	118	21	254
01:00		3	30			4	38				
01:15		3	26			6	31				
01:30		2	29			1	29				
01:45		2	20	10	105	0	34	11	132	21	237
02:00		2	47			0	41				
02:15		0	29			2	26				
02:30		8	32			3	40				
02:45		1	34	11	142	0	26	5	133	16	275
03:00		4	33			3	40				
03:15		3	38			3	33				
03:30		4	52			2	47				
03:45		8	47	19	170	1	37	9	157	28	327
04:00		3	47			4	40				
04:15		12	51			3	28				
04:30		12	69			5	40				
04:45		17	57	44	224	11	49	23	157	67	381
05:00		13	68			6	44				
05:15		15	63			11	42				
05:30		14	41			22	40				
05:45		21	29	63	201	28	38	67	164	130	365
06:00		27	29			21	21				
06:15		34	27			20	28				
06:30		30	35			22	35				
06:45		34	23	125	114	51	21	114	105	239	219
07:00		42	22			51	17				
07:15		37	32			47	20				
07:30		53	13			36	16				
07:45		38	14	170	81	76	15	210	68	380	149
08:00		48	13			53	12				
08:15		43	6			54	17				
08:30		30	23			45	14				
08:45		11	15	132	57	23	15	175	58	307	115
09:00		31	14			20	10				
09:15		23	8			19	20				
09:30		26	5			19	11				
09:45		23	3	103	30	29	8	87	49	190	79
10:00		23	6			17	15	0.			
10:15		17	5			29	12				
10:30		34	14			14	15				
10:45		26	6	100	31	17	12	77	54	177	85
11:00		28	7			25	9		J.		
11:15		29	5			25	6				
11:30		39	9			25	9				
11:45		34	4	130	25	29	3	104	27	234	52
Total		912	1316			898	1222			1810	2538
Percent		40.9%	59.1%			42.4%	57.6%			41.6%	58.4%
1 0100111		10.070	30.170			12.170	31.070			11.070	33.170

Location: Industrial Drive South of Location: S. Perimeter Road City/State: Manchester, NH

Counter: 955

Site Code: 17266012

17266012

Start	22-Oct-09		IB		Totals		SB		Totals	Combine	
Time	Thu	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	Morning	Afternoo
12:00		3	48			4	40				
12:15		4	25			5	32				
12:30		2	40			4	26				
12:45		1	25	10	138	4	20	17	118	27	25
01:00		5	28			4	19				
01:15		3	18			2	28				
01:30		1	25			1	20				
01:45		3	30	12	101	1	29	8	96	20	19
02:00		2	30			1	28				
02:15		4	28			0	34				
02:30		3	24			3	29				
02:45		3	28	12	110	3	40	7	131	19	24
03:00		5	42			1	34	•		.0	_
03:15		4	58			3	39				
03:30		12	65			3	52				
03:45		11	46	32	211	1	44	8	169	40	38
03.43		2	42	JZ	211	5	41	U	103	40	30
04:00		15	43			7	26				
04:13		15	57			4	29				
04:30		14	53	46	195	9	40	25	136	71	33
				40	195			25	130	7.1	30
05:00		12	70			12	45				
05:15		16	54			16	39				
05:30		18	38		400	22	38		4=0		
05:45		25	26	71	188	23	48	73	170	144	35
06:00		24	42			20	21				
06:15		27	22			26	14				
06:30		34	27			39	23				
06:45		23	25	108	116	50	14	135	72	243	18
07:00		28	25			34	26				
07:15		39	8			44	22				
07:30		59	8			39	19				
07:45		54	17	180	58	77	17	194	84	374	14
08:00		36	15			50	7				
08:15		32	11			57	8				
08:30		42	18			60	15				
08:45		33	10	143	54	31	10	198	40	341	ç
09:00		21	13			38	18				
09:15		22	11			16	14				
09:30		31	5			24	18				
09:45		21	14	95	43	28	13	106	63	201	10
10:00		18	8			29	17				
10:15		29	11			17	17				
10:30		24	6			21	16				
10:45		27	9	98	34	29	19	96	69	194	10
11:00		26	8	30	34	23	7	30	0.5	104	- 10
11:15		18	6			28	4				
11:30		32	4			36	4				
11:30		39	7	115	25	29	3	116	18	231	4
				115	25			110	10		
Total		922	1273			983	1166			1905	243
Percent Grand Tota	1	42.0%	58.0%	20		45.7%	54.3%	20		43.9%	56.1
i-rand inta	II.	27	36 379	10		28	356	22		556	1

ADT ADT 4,306 AADT 4,306

Location: Industrial Drive South of Location: S. Perimeter Road City/State: Manchester, NH

Counter: 955

ADT

ADT 4,306

AADT 4,306

Site Code: 17266012

Start	19-Oct	:-09	Т	ue	V	/ed	Т	hu	F	ri	S	at	Sı	ın	Week A	verage
Time	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB	NB	SB
12:00 AM	*	*	5	9	5	16	10	17	*	*	*	*	*	*	7	14
01:00	*	*	7	9	10	11	12	8	*	*	*	*	*	*	10	9
02:00	*	*	11	7	11	5	12	7	*	*	*	*	*	*	11	6
03:00	*	*	24	6	19	9	32	8	*	*	*	*	*	*	25	8
04:00	*	*	41	22	44	23	46	25	*	*	*	*	*	*	44	23
05:00	*	*	77	70	63	67	71	73	*	*	*	*	*	*	70	70
06:00	*	*	111	118	125	114	108	135	*	*	*	*	*	*	115	122
07:00	*	*	189	174	170	210	180	194	*	*	*	*	*	*	180	193
08:00	*	*	134	193	132	175	143	198	*	*	*	*	*	*	136	189
09:00	*	*	100	133	103	87	95	106	*	*	*	*	*	*	99	109
10:00	*	*	106	93	100	77	98	96	*	*	*	*	*	*	101	89
11:00	*	*	97	110	130	104	115	116	*	*	*	*	*	*	114	110
12:00 PM	*	*	138	118	136	118	138	118	*	*	*	*	*	*	137	118
01:00	*	*	100	123	105	132	101	96	*	*	*	*	*	*	102	117
02:00	*	*	113	173	142	133	110	131	*	*	*	*	*	*	122	146
03:00	*	*	172	155	170	157	211	169	*	*	*	*	*	*	184	160
04:00	*	*	196	146	224	157	195	136	*	*	*	*	*	*	205	146
05:00	*	*	208	140	201	164	188	170	*	*	*	*	*	*	199	158
06:00	*	*	91	99	114	105	116	72	*	*	*	*	*	*	107	92
07:00	*	*	73	53	81	68	58	84	*	*	*	*	*	*	71	68
08:00	*	*	45	42	57	58	54	40	*	*	*	*	*	*	52	47
09:00	*	*	28	53	30	49	43	63	*	*	*	*	*	*	34	55
10:00	*	*	27	42	31	54	34	69	*	*	*	*	*	*	31	55
11:00	*	*	16	30	25	27	25	18	*	*	*	*	*	*	22	25
Lane	0	0	2109	2118	2228	2120	2195	2149	0	0	0	0	0	0	2178	2129
Day	0		422	27	434	18	434	14	0		0		0		430	7
AM Peak			07:00	08:00	07:00	07:00	07:00	08:00							07:00	07:00
Vol.			189	193	170	210	180	198							180	193
PM Peak			17:00	14:00	16:00	17:00	15:00	17:00							16:00	15:00
Vol.			208	173	224	164	211	170							205	160
Comb. Total		0		4227		4348		4344		0		0		0		4307

N/S Street: Brown Ave / Airport Rd E/W Street: Perimeter Rd / Brown Ave

City/State : Manchester, NH Weather : Clear

File Name : 17266001 Site Code : 17266001 Start Date : 10/22/2009 Page No : 1

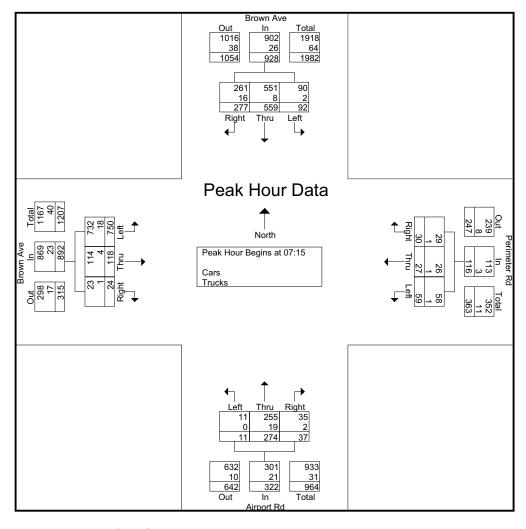
Groups Printed- Cars - Trucks

		Browi From				Perime From	eter Rd East	·		Airpo From				Browi	n Ave West				
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
06:00	9	130	21	0	12	0	3	0	1	39	8	1	40	5	2	0	1	270	271
06:15	9	144	42	0	16	4	7	0	0	54	7	0	84	11	4	0	0	382	382
06:30	15	161	48	2	17	2	2	0	3	49	6	1	116	13	6	0	3	438	441
06:45	36	183	60	0	26	5	3_	0	2	80	6	0	118	12	10	0	0	541	541
Total	69	618	171	2	71	11	15	0	6	222	27	2	358	41	22	0	4	1631	1635
07:00	13	132	43	0	16	5	15	0	5	112	17	0	112	28	2	0	0	500	500
07:15	13	115	53	ő	3	8	4	Ö	0	53	8	0	190	56	4	Ö	Ö	507	507
07:30	15	130	82	ő	12	7	10	Ö	7	75	8	Ö	196	28	2	Ö	Ö	572	572
07:45	41	177	75	0	29	8	8	0	3	64	14	0	168	18	11	0	0	616	616
Total	82	554	253	0	60	28	37	0	15	304	47	0	666	130	19	0	0	2195	2195
08:00	23	137	67	0	15	4	8	0	1	82	7	0	196	16	7	0	0	563	563
08:15	36	138	55	0	7	3	6	0	1	77	10	0	148	16	5	0	0	502	502
08:30	31	142	52	0	13	9	12	0	5	84	14	0	112	10	5	0	0	489	489
08:45	16	122	53	0	21	3	9	0	3	91	8	0	125	9	2	0	0	462	462
Total	106	539	227	0	56	19	35	0	10	334	39	0	581	51	19	0	0	2016	2016
Grand Total	257	1711	651	2	187	58	87	0	31	860	113	2	1605	222	60	0	4	5842	5846
Apprch %	9.8	65.3	24.9	_	56.3	17.5	26.2	-	3.1	85.7	11.3	_	85.1	11.8	3.2	_			
Total %	4.4	29.3	11.1		3.2	1	1.5		0.5	14.7	1.9		27.5	3.8	1		0.1	99.9	
Cars	252	1676	605		184	57	83		28	764	106		1563	217	59		0	0	5598
% Cars	98.1	98	92.9	100	98.4	98.3	95.4	0	90.3	88.8	93.8	100	97.4	97.7	98.3	0	0	0	95.8
Trucks	5	35	46		3	1	4		3	96	7		42	5	1		0	0	248
% Trucks	1.9	2	7.1	0	1.6	1.7	4.6	0	9.7	11.2	6.2	0	2.6	2.3	1.7	0	0	0	4.2

			vn Ave n North				neter Rd n East				ort Rd South				vn Ave n West		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	ysis Fron	n 06:00	to 08:45	- Peak 1 c	of 1												
Peak Hour for E	ntire Inte	rsection	Begins a	at 07:15													
07:15	13	115	53	181	3	8	4	15	0	53	8	61	190	56	4	250	507
07:30	15	130	82	227	12	7	10	29	7	75	8	90	196	28	2	226	572
07:45	41	177	75	293	29	8	8	45	3	64	14	81	168	18	11	197	616
08:00	23	137	67	227	15	4	8	27	1	82	7	90	196	16	7	219	563
Total Volume	92	559	277	928	59	27	30	116	11	274	37	322	750	118	24	892	2258
% App. Total	9.9	60.2	29.8		50.9	23.3	25.9		3.4	85.1	11.5		84.1	13.2	2.7		
PHF	.561	.790	.845	.792	.509	.844	.750	.644	.393	.835	.661	.894	.957	.527	.545	.892	.916
Cars	90	551	261	902	58	26	29	113	11	255	35	301	732	114	23	869	2185
% Cars	97.8	98.6	94.2	97.2	98.3	96.3	96.7	97.4	100	93.1	94.6	93.5	97.6	96.6	95.8	97.4	96.8
Trucks	2	8	16	26	1	1	1	3	0	19	2	21	18	4	1	23	73
% Trucks	2.2	1.4	5.8	2.8	1.7	3.7	3.3	2.6	0	6.9	5.4	6.5	2.4	3.4	4.2	2.6	3.2

File Name : 17266001 Site Code : 17266001 Start Date : 10/22/2009

Page No : 2



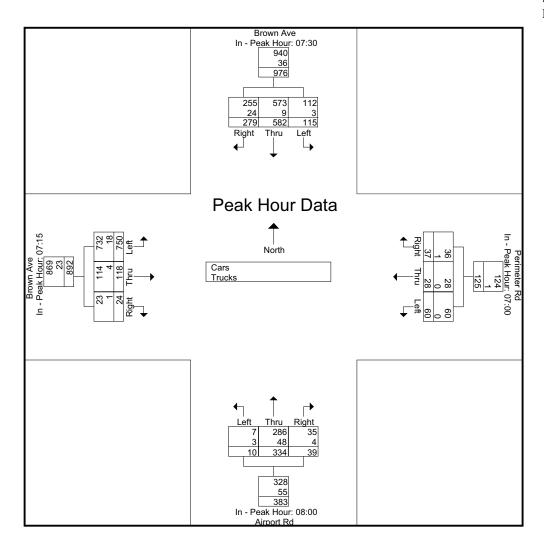
Peak Hour Analysis From 06:00 to 08:45 - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:30				07:00				08:00				07:15			
+0 mins.	15	130	82	227	16	5	15	36	1	82	7	90	190	56	4	250
+15 mins.	41	177	75	293	3	8	4	15	1	77	10	88	196	28	2	226
+30 mins.	23	137	67	227	12	7	10	29	5	84	14	103	168	18	11	197
+45 mins.	36	138	55	229	29	8	8	45	3	91	8	102	196	16	7	219
Total Volume	115	582	279	976	60	28	37	125	10	334	39	383	750	118	24	892
% App. Total	11.8	59.6	28.6		48	22.4	29.6		2.6	87.2	10.2		84.1	13.2	2.7	
PHF	.701	.822	.851	.833	.517	.875	.617	.694	.500	.918	.696	.930	.957	.527	.545	.892
Cars	112	573	255	940	60	28	36	124	7	286	35	328	732	114	23	869
% Cars	97.4	98.5	91.4	96.3	100	100	97.3	99.2	70	85.6	89.7	85.6	97.6	96.6	95.8	97.4
Trucks	3	9	24	36	0	0	1	1	3	48	4	55	18	4	1	23
% Trucks	2.6	1.5	8.6	3.7	0	0	2.7	0.8	30	14.4	10.3	14.4	2.4	3.4	4.2	2.6

File Name : 17266001 Site Code : 17266001 Start Date : 10/22/2009

Page No : 3



N/S Street: Brown Ave / Airport Rd E/W Street: Perimeter Rd / Brown Ave

City/State : Manchester, NH Weather : Clear

File Name : 17266001 Site Code : 17266001 Start Date : 10/22/2009 Page No : 1

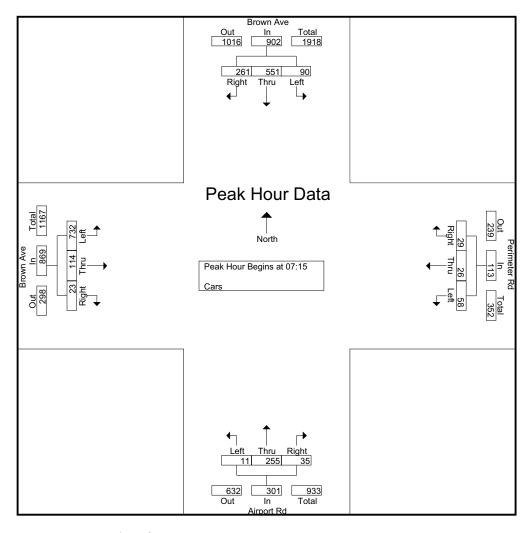
Groups Printed- Cars

			n Ave North				eter Rd East			Airpo	rt Rd South				n Ave West				
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
06:00	9	125	19	0	12	0	3	0	1	35	8	1	40	5	2	0	1	259	260
06:15	8	143	41	0	16	4	6	0	0	50	7	0	83	11	4	0	0	373	373
06:30	15	158	47	2	17	2	2	0	3	42	6	1	114	13	6	0	3	425	428
06:45	36	180	53	0	26	5	3	0	2	69	5	0	114	12	10	0	0	515	515
Total	68	606	160	2	71	11	14	0	6	196	26	2	351	41	22	0	4	1572	1576
07:00	12	127	41	0	16	5	15	0	5	103	17	0	108	27	2	0	0	478	478
07:15	13	114	52	0	3	8	4	0	0	48	7	0	188	56	4	0	0	497	497
07:30	15	125	74	0	12	7	10	0	7	72	8	0	193	26	2	0	0	551	551
07:45	40	175	70	0	29	8	7	0	3	59	13	0	166	17	11	0	0	598	598
Total	80	541	237	0	60	28	36	0	15	282	45	0	655	126	19	0	0	2124	2124
08:00	22	137	65	0	14	3	8	0	1	76	7	0	185	15	6	0	0	539	539
08:15	35	136	46	0	6	3	6	0	0	65	9	0	142	16	5	0	0	469	469
08:30	31	138	45	0	13	9	12	0	3	59	13	0	110	10	5	0	0	448	448
08:45	16	118	52	0	20	3	. 7	0	3	86	6	0	120	9	2	0	0	442	442
Total	104	529	208	0	53	18	33	0	7	286	35	0	557	50	18	0	0	1898	1898
Grand Total Apprch %	252 9.9	1676 66.2	605 23.9	2	184 56.8	57 17.6	83 25.6	0	28 3.1	764 85.1	106 11.8	2	1563 85	217 11.8	59 3.2	0	4	5594	5598
Total %	4.5	30	10.8		3.3	1	1.5		0.5	13.7	1.9		27.9	3.9	1.1		0.1	99.9	

		Brow	vn Ave			Perim	eter Rd			Airp	ort Rd			Brov	vn Ave		
		From	North			Fron	n East			From	South			Fron	1 West		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	sis Fron	n 06:00	to 08:45	- Peak 1 c	of 1												
Peak Hour for E	ntire Inte	rsection	Begins	at 07:15													
07:15	13	114	52	179	3	8	4	15	0	48	7	55	188	56	4	248	497
07:30	15	125	74	214	12	7	10	29	7	72	8	87	193	26	2	221	551
07:45	40	175	70	285	29	8	7	44	3	59	13	75	166	17	11	194	598
08:00	22	137	65	224	14	3	8	25	1	76	7	84	185	15	6	206	539
Total Volume	90	551	261	902	58	26	29	113	11	255	35	301	732	114	23	869	2185
% App. Total	10	61.1	28.9		51.3	23	25.7		3.7	84.7	11.6		84.2	13.1	2.6		
PHF	.563	.787	.882	.791	.500	.813	.725	.642	.393	.839	.673	.865	.948	.509	.523	.876	.913

File Name : 17266001 Site Code : 17266001 Start Date : 10/22/2009

Page No : 2



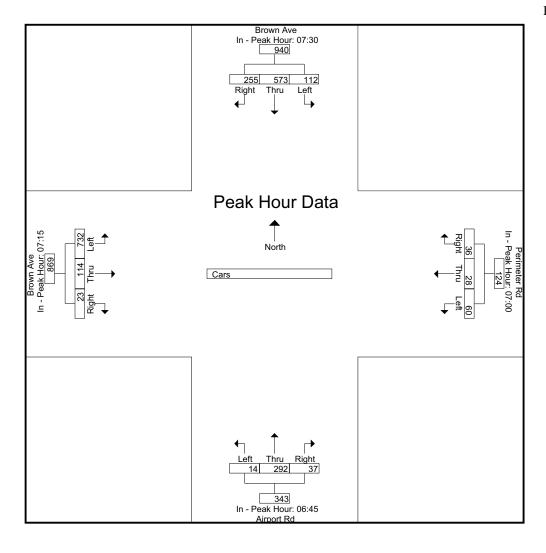
Peak Hour Analysis From 06:00 to 08:45 - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	07:30				07:00				06:45				07:15			
+0 mins.	15	125	74	214	16	5	15	36	2	69	5	76	188	56	4	248
+15 mins.	40	175	70	285	3	8	4	15	5	103	17	125	193	26	2	221
+30 mins.	22	137	65	224	12	7	10	29	0	48	7	55	166	17	11	194
+45 mins.	35	136	46	217	29	8	7	44	7	72	8	87	185	15	6	206
Total Volume	112	573	255	940	60	28	36	124	14	292	37	343	732	114	23	869
% App. Total	11.9	61	27.1		48.4	22.6	29		4.1	85.1	10.8		84.2	13.1	2.6	
PHF	.700	.819	.861	.825	.517	.875	.600	.705	.500	.709	.544	.686	.948	.509	.523	.876

File Name : 17266001 Site Code : 17266001 Start Date : 10/22/2009

Page No : 3



N/S Street: Brown Ave / Airport Rd E/W Street: Perimeter Rd / Brown Ave

City/State : Manchester, NH Weather : Clear

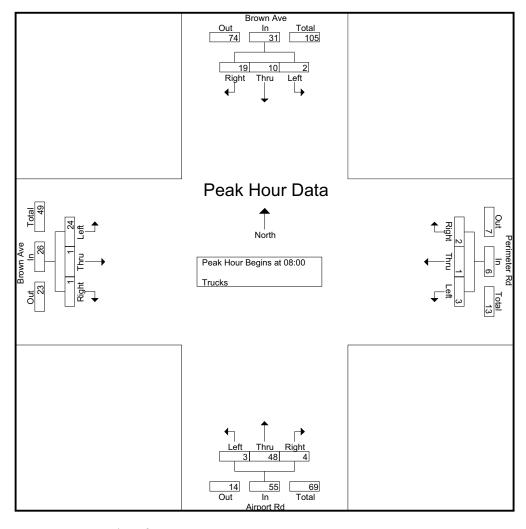
File Name : 17266001 Site Code : 17266001 Start Date : 10/22/2009 Page No : 1

Groups Printed- Trucks

		Browi From					eter Rd East			Airpo From				Browi From	n Ave West				
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
06:00	0	5	2	0	0	0	0	0	0	4	0	0	0	0	0	0	0	11	11
06:15	1	1	1	0	0	0	1	0	0	4	0	0	1	0	0	0	0	9	9
06:30	0	3	1	0	0	0	0	0	0	7	0	0	2	0	0	0	0	13	13
06:45	0	3	7	0	0	0	0	0	0	11	1	0	4	0	0	0	0	26	26
Total	1	12	11	0	0	0	1	0	0	26	1	0	7	0	0	0	0	59	59
07:00	1	5	2	0	0	0	0	0	0	9	0	0	4	1	0	0	0	22	22
07:15	0	1	1	0	0	0	0	0	0	5	1	0	2	0	0	0	0	10	10
07:30	0	5	8	0	0	0	0	0	0	3	0	0	3	2	0	0	0	21	21
 07:45	1	2	5	0	0	0	1	0	0	5	1	0	2	1	0	0	0	18	18
Total	2	13	16	0	0	0	1	0	0	22	2	0	11	4	0	0	0	71	71
08:00	1	0	2	0	1	1	0	0	0	6	0	0	11	1	1	0	0	24	24
08:15	1	2	9	0	1	0	0	0	1	12	1	0	6	0	0	0	0	33	33
08:30	0	4	7	0	0	0	0	0	2	25	1	0	2	0	0	0	0	41	41
 08:45	0	4	1	0	1	0	2	0	0	5	2	0	5	0	0	0	0	20	20
Total	2	10	19	0	3	1	2	0	3	48	4	0	24	1	1	0	0	118	118
Grand Total	5	35	46	0	3	1	4	0	3	96	7	0	42	5	1	0	0	248	248
Apprch %	5.8	40.7	53.5		37.5	12.5	50		2.8	90.6	6.6		87.5	10.4	2.1				
Total %	2	14.1	18.5		1.2	0.4	1.6		1.2	38.7	2.8		16.9	2	0.4		0	100	

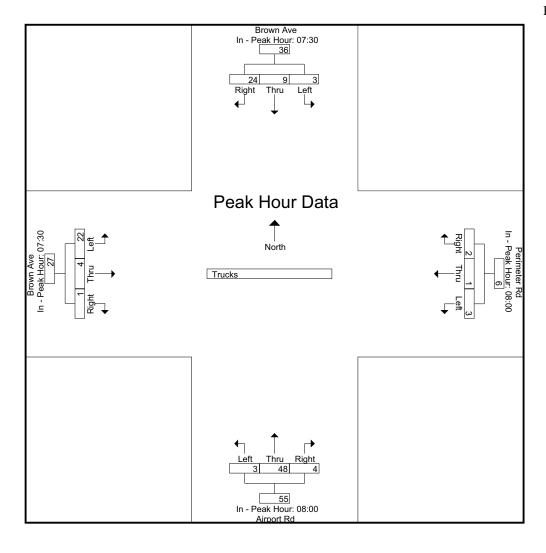
		Brow	vn Ave			Perim	eter Rd			Airp	ort Rd			Brov	vn Ave		
		From	North			Fror	n East			From	South			Fron	n West		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	sis Fron	n 06:00 t	to 08:45	- Peak 1 d	of 1												
Peak Hour for E	ntire Inte	rsection	Begins	at 08:00													
08:00	1	0	2	3	1	1	0	2	0	6	0	6	11	1	1	13	24
08:15	1	2	9	12	1	0	0	1	1	12	1	14	6	0	0	6	33
08:30	0	4	7	11	0	0	0	0	2	25	1	28	2	0	0	2	41
08:45	0	4	1	5	1	0	2	3	0	5	2	7	5	0	0	5	20
Total Volume	2	10	19	31	3	1	2	6	3	48	4	55	24	1	1	26	118
% App. Total	6.5	32.3	61.3		50	16.7	33.3		5.5	87.3	7.3		92.3	3.8	3.8		
PHF	.500	.625	.528	.646	.750	.250	.250	.500	.375	.480	.500	.491	.545	.250	.250	.500	.720

Page No : 2



Peak Hour Analysis From 06:00 to 08:45 - Peak 1 of 1

	07:30				08:00				08:00				07:30			
+0 mins.	0	5	8	13	1	1	0	2	0	6	0	6	3	2	0	5
+15 mins.	1	2	5	8	1	0	0	1	1	12	1	14	2	1	0	3
+30 mins.	1	0	2	3	0	0	0	0	2	25	1	28	11	1	1	13
+45 mins.	1	2	9	12	1	0	2	3	0	5	2	7	6	0	0	6
Total Volume	3	9	24	36	3	1	2	6	3	48	4	55	22	4	1	27
% App. Total	8.3	25	66.7		50	16.7	33.3		5.5	87.3	7.3		81.5	14.8	3.7	
PHF	.750	.450	.667	.692	.750	.250	.250	.500	.375	.480	.500	.491	.500	.500	.250	.519



N/S Street: Brown Ave / Airport Rd E/W Street: Perimeter Rd / Brown Ave

City/State : Manchester, NH Weather : Clear

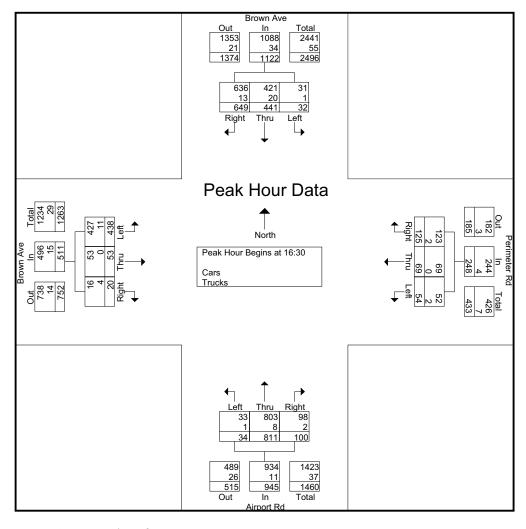
File Name : 17266001 Site Code : 17266001 Start Date : 10/22/2009 Page No : 1

Groups Printed- Cars - Trucks

		Browi From				Perime From			Timed	Airpo From				Browi From					
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
16:00	12	149	138	0	21	14	39	0	8	169	16	0	82	9	5	0	0	662	662
16:15	10	131	154	1	13	19	31	0	7	181	18	0	89	10	5	0	1	668	669
16:30	14	137	140	0	15	7	22	0	5	198	26	0	131	13	3	0	0	711	711
16:45	7_	116	164	0	14_	18	31_	2	7	171	24	0	107	17	8	0	2	684	686
Total	43	533	596	1	63	58	123	2	27	719	84	0	409	49	21	0	3	2725	2728
17:00	3	96	148	0	13	17	40	0	10	249	18	0	105	13	4	0	0	716	716
17:15	8	92	197	0	12	27	32	0	12	193	32	0	95	10	5	1	1	715	716
17:30	9	88	161	0	11	19	22	0	8	169	16	0	91	16	4	0	0	614	614
17:45	7	98	160	0	13	17	13	0	3	81	12	0	94	11	4	0	0	513	513
Total	27	374	666	0	49	80	107	0	33	692	78	0	385	50	17	1	1	2558	2559
18:00	7	54	132	0	11	11	9	0	4	73	11	0	107	12	5	0	0	436	436
18:15	8	74	103	0	13	13	9	0	9	69	11	0	82	12	1	0	0	404	404
18:30	4	83	94	0	6	10	6	0	4	118	18	0	82	11	5	0	0	441	441
18:45	13	82	105	0	14	13	7	0	1	97	9	0	62	15	3	0	0	421	421
Total	32	293	434	0	44	47	31	0	18	357	49	0	333	50	14	0	0	1702	1702
Grand Total	102	1200	1696	1	156	185	261	2	78	1768	211	0	1127	149	52	1	4	6985	6989
Apprch %	3.4	40	56.6		25.9	30.7	43.4		3.8	86	10.3		84.9	11.2	3.9				
Total %	1.5	17.2	24.3		2.2	2.6	3.7		1.1	25.3	3		16.1	2.1	0.7		0.1	99.9	
Cars	101	1137	1669		151	185	259		77	1735	207		1105	148	47		0	0	6825
% Cars	99	94.8	98.4	100	96.8	100	99.2	100	98.7	98.1	98.1	0	98	99.3	90.4	100	0	0	97.7
Trucks	1	63	27		5	0	2		1	33	4		22	1	5		0	0	164
% Trucks	1	5.2	1.6	0	3.2	0	8.0	0	1.3	1.9	1.9	0	2	0.7	9.6	0	0	0	2.3

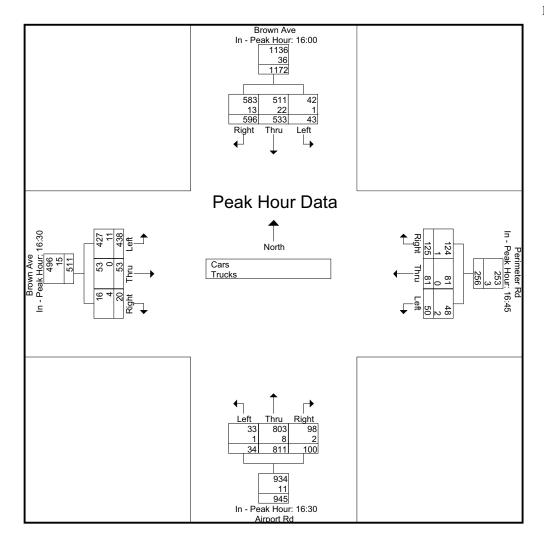
			vn Ave				eter Rd				ort Rd				vn Ave		
		Fron	n North			Fron	n East			From	South			Fron	n West		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	sis Fron	n 16:00	to 18:45	- Peak 1 c	of 1												
Peak Hour for E	ntire Inte	ersection	Begins a	at 16:30													
16:30	14	137	140	291	15	7	22	44	5	198	26	229	131	13	3	147	711
16:45	7	116	164	287	14	18	31	63	7	171	24	202	107	17	8	132	684
17:00	3	96	148	247	13	17	40	70	10	249	18	277	105	13	4	122	716
17:15	8	92	197	297	12	27	32	71	12	193	32	237	95	10	5	110	715
Total Volume	32	441	649	1122	54	69	125	248	34	811	100	945	438	53	20	511	2826
% App. Total	2.9	39.3	57.8		21.8	27.8	50.4		3.6	85.8	10.6		85.7	10.4	3.9		
PHF	.571	.805	.824	.944	.900	.639	.781	.873	.708	.814	.781	.853	.836	.779	.625	.869	.987
Cars	31	421	636	1088	52	69	123	244	33	803	98	934	427	53	16	496	2762
% Cars	96.9	95.5	98.0	97.0	96.3	100	98.4	98.4	97.1	99.0	98.0	98.8	97.5	100	80.0	97.1	97.7
Trucks	1	20	13	34	2	0	2	4	1	8	2	11	11	0	4	15	64
% Trucks	3.1	4.5	2.0	3.0	3.7	0	1.6	1.6	2.9	1.0	2.0	1.2	2.5	0	20.0	2.9	2.3

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Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1

-																
	16:00				16:45				16:30				16:30			
+0 mins.	12	149	138	299	14	18	31	63	5	198	26	229	131	13	3	147
+15 mins.	10	131	154	295	13	17	40	70	7	171	24	202	107	17	8	132
+30 mins.	14	137	140	291	12	27	32	71	10	249	18	277	105	13	4	122
+45 mins.	7	116	164	287	11	19	22	52	12	193	32	237	95	10	5	110
Total Volume	43	533	596	1172	50	81	125	256	34	811	100	945	438	53	20	511
% AppTotal	3.7	45.5	50.9		19.5	31.6	48.8		3.6	85.8	10.6		85.7	10.4	3.9	
PHF	.768	.894	.909	.980	.893	.750	.781	.901	.708	.814	.781	.853	.836	.779	.625	.869
Cars	42	511	583	1136	48	81	124	253	33	803	98	934	427	53	16	496
% Cars	97.7	95.9	97.8	96.9	96	100	99.2	98.8	97.1	99	98	98.8	97.5	100	80	97.1
Trucks	1	22	13	36	2	0	1	3	1	8	2	11	11	0	4	15
% Trucks	2.3	4.1	2.2	3.1	4	0	0.8	1.2	2.9	1	2	1.2	2.5	0	20	2.9



N/S Street: Brown Ave / Airport Rd E/W Street: Perimeter Rd / Brown Ave

City/State : Manchester, NH Weather : Clear

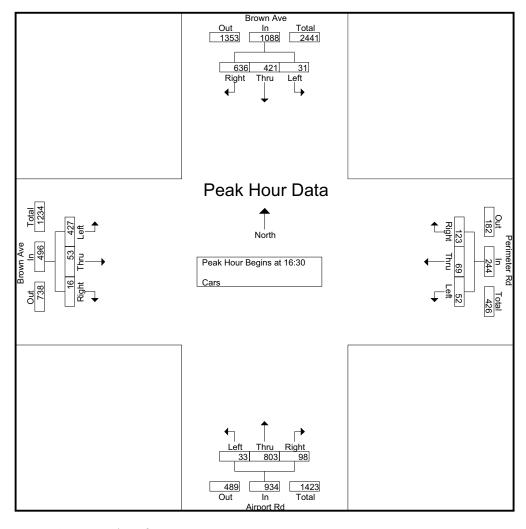
File Name : 17266001 Site Code : 17266001 Start Date : 10/22/2009 Page No : 1

Groups Printed- Cars

			n Ave North				eter Rd East		•		rt Rd South			Browi	n Ave West				
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
16:00	12	145	133	0	19	14	39	0	8	166	16	0	81	9	5	0	0	647	647
16:15	10	124	152	1	13	19	31	0	7	176	17	0	87	10	5	0	1	651	652
16:30	14	132	136	0	14	7	21	0	4	195	26	0	129	13	1	0	0	692	692
16:45	6	110	162	0	14	18	30	2	7	170	22	0	103	17	7	0	2	666	668
Total	42	511	583	1	60	58	121	2	26	707	81	0	400	49	18	0	3	2656	2659
17:00	3	90	143	0	12	17	40	0	10	247	18	0	100	13	4	0	0	697	697
17:15	8	89	195	0	12	27	32	0	12	191	32	0	95	10	4	1	1	707	708
17:30	9	85	158	0	10	19	22	0	8	163	16	0	89	16	4	0	0	599	599
17:45	7	89	158	0	13	17	13	0	3	80	11	0	93	11	4	0	0	499	499
Total	27	353	654	0	47	80	107	0	33	681	77	0	377	50	16	1	1	2502	2503
18:00	7	49	131	0	11	11	9	0	4	70	11	0	107	11	5	0	0	426	426
18:15	8	70	102	0	13	13	9	0	9	68	11	0	82	12	1	0	0	398	398
18:30	4	75	94	0	6	10	6	0	4	117	18	0	80	11	4	0	0	429	429
18:45	13	79	105	0	14	13	7	0	1	92	9	0	59	15	3	0	0	410	410
Total	32	273	432	0	44	47	31	0	18	347	49	0	328	49	13	0	0	1663	1663
Grand Total Apprch %	101 3.5	1137 39.1	1669 57.4	1	151 25.4	185 31.1	259 43.5	2	77 3.8	1735 85.9	207 10.3	0	1105 85	148 11.4	47 3.6	1	4	6821	6825
Total %	1.5	16.7	24.5		23.4	2.7	3.8		1.1	25.4	3		16.2	2.2	0.7		0.1	99.9	

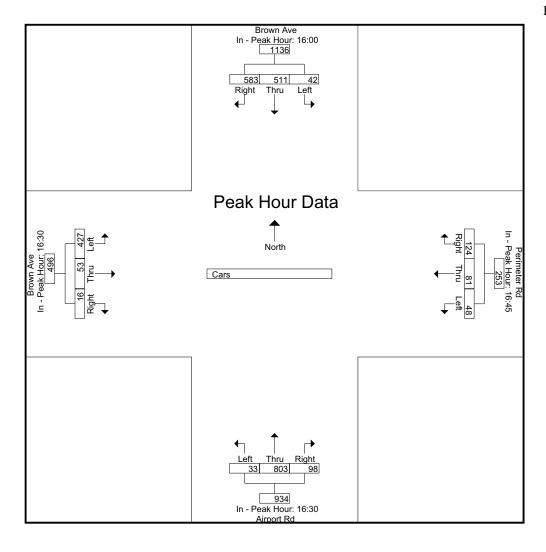
		Brow	n Ave			Perim	eter Rd			Airp	ort Rd			Brov	vn Ave		
		From	North			Fror	n East			From	South			Fron	n West		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	sis Fron	n 16:00	to 18:45		of 1												
Peak Hour for En	ntire Inte	rsection	Begins	at 16:30													
16:30	14	132	136	282	14	7	21	42	4	195	26	225	129	13	1	143	692
16:45	6	110	162	278	14	18	30	62	7	170	22	199	103	17	7	127	666
17:00	3	90	143	236	12	17	40	69	10	247	18	275	100	13	4	117	697
17:15	8	89	195	292	12	27	32	71	12	191	32	235	95	10	4	109	707
Total Volume	31	421	636	1088	52	69	123	244	33	803	98	934	427	53	16	496	2762
% App. Total	2.8	38.7	58.5		21.3	28.3	50.4		3.5	86	10.5		86.1	10.7	3.2		
PHF	.554	.797	.815	932	929	.639	.769	859	.688	.813	.766	.849	.828	.779	571	867	.977

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Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1

	16:00				16:45				16:30				16:30			
+0 mins.	12	145	133	290	14	18	30	62	4	195	26	225	129	13	1	143
+15 mins.	10	124	152	286	12	17	40	69	7	170	22	199	103	17	7	127
+30 mins.	14	132	136	282	12	27	32	71	10	247	18	275	100	13	4	117
+45 mins.	6	110	162	278	10	19	22	51	12	191	32	235	95	10	4	109
Total Volume	42	511	583	1136	48	81	124	253	33	803	98	934	427	53	16	496
% App. Total	3.7	45	51.3		19	32	49		3.5	86	10.5		86.1	10.7	3.2	
PHF	.750	.881	.900	.979	.857	.750	.775	.891	.688	.813	.766	.849	.828	.779	.571	.867



N/S Street: Brown Ave / Airport Rd E/W Street: Perimeter Rd / Brown Ave

City/State : Manchester, NH Weather : Clear

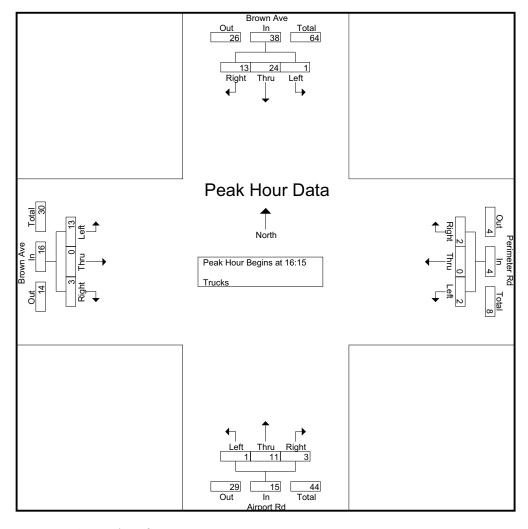
File Name : 17266001 Site Code : 17266001 Start Date : 10/22/2009 Page No : 1

Groups Printed- Trucks

			Browi From				Perime From	ter Rd East			Airpo From				Browi From					
Start 1	Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
1	6:00	0	4	5	0	2	0	0	0	0	3	0	0	1	0	0	0	0	15	15
1	6:15	0	7	2	0	0	0	0	0	0	5	1	0	2	0	0	0	0	17	17
1	6:30	0	5	4	0	1	0	1	0	1	3	0	0	2	0	2	0	0	19	19
1	6:45	1	6	2	0	0	0	1	0	0	1	2	0	4	0	1	0	0	18	18
7	Total	1	22	13	0	3	0	2	0	1	12	3	0	9	0	3	0	0	69	69
1	7:00	0	6	5	0	1	0	0	0	0	2	0	0	5	0	0	0	0	19	19
1	7:15	0	3	2	0	0	0	0	0	0	2	0	0	0	0	1	0	0	8	8
1	7:30	0	3	3	0	1	0	0	0	0	6	0	0	2	0	0	0	0	15	15
1	7:45	0	9	2	0	0	0	0	0	0	1	1	0	1	0	0	0	0	14	14
7	Total	0	21	12	0	2	0	0	0	0	11	1	0	8	0	1	0	0	56	56
1	8:00	0	5	1	0	0	0	0	0	0	3	0	0	0	1	0	0	0	10	10
1	8:15	0	4	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	6	6
1	8:30	0	8	0	0	0	0	0	0	0	1	0	0	2	0	1	0	0	12	12
1	8:45	0	3	0	0	0	0	0	0	0	5	0	0	3	0	0	0	0	11	11
٦	Total	0	20	2	0	0	0	0	0	0	10	0	0	5	1	1	0	0	39	39
Grand 1		1	63	27	0	5	0	2	0	1	33	4	0	22	1	5	0	0	164	164
Appro	ch %	1.1	69.2	29.7		71.4	0	28.6		2.6	86.8	10.5		78.6	3.6	17.9				
Tot	tal %	0.6	38.4	16.5		3	0	1.2		0.6	20.1	2.4		13.4	0.6	3		0	100	

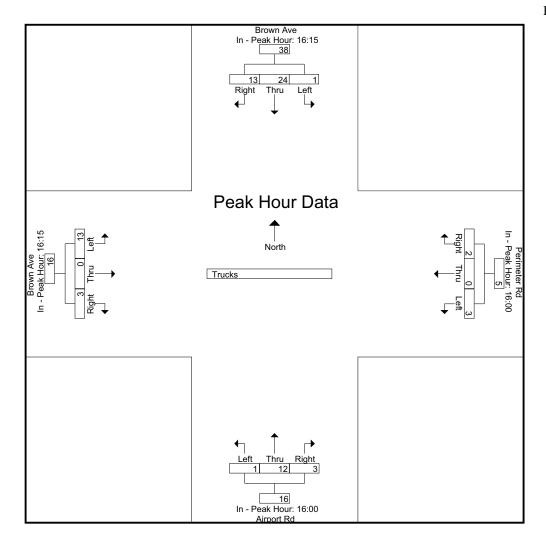
		Brov	vn Ave			Perim	eter Rd			Airp	ort Rd			Brov	vn Ave		
		From	North			Fror	n East			From	South			Fron	n West		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	sis Fron	n 16:00	to 18:45	- Peak 1 d	of 1												
Peak Hour for E	ntire Inte	rsection	Begins	at 16:15													
16:15	0	7	2	9	0	0	0	0	0	5	1	6	2	0	0	2	17
16:30	0	5	4	9	1	0	1	2	1	3	0	4	2	0	2	4	19
16:45	1	6	2	9	0	0	1	1	0	1	2	3	4	0	1	5	18
17:00	0	6	5	11	1	0	0	1	0	2	0	2	5	0	0	5	19
Total Volume	1	24	13	38	2	0	2	4	1	11	3	15	13	0	3	16	73
% App. Total	2.6	63.2	34.2		50	0	50		6.7	73.3	20		81.2	0	18.8		
PHF	.250	.857	.650	.864	.500	.000	.500	.500	.250	.550	.375	.625	.650	.000	.375	.800	.961

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Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1

	16:15				16:00				16:00				16:15			
+0 mins.	0	7	2	9	2	0	0	2	0	3	0	3	2	0	0	2
+15 mins.	0	5	4	9	0	0	0	0	0	5	1	6	2	0	2	4
+30 mins.	1	6	2	9	1	0	1	2	1	3	0	4	4	0	1	5
+45 mins.	0	6	5	11	0	0	1	1	0	1	2	3	5	0	0	5
Total Volume	1	24	13	38	3	0	2	5	1	12	3	16	13	0	3	16
% App. Total	2.6	63.2	34.2		60	0	40		6.2	75	18.8		81.2	0	18.8	
PHF	.250	.857	.650	.864	.375	.000	.500	.625	.250	.600	.375	.667	.650	.000	.375	.800



N/S Street : South Perimeter Road E/W Street: Airport Road City/State : Manchester, NH Weather : Clear

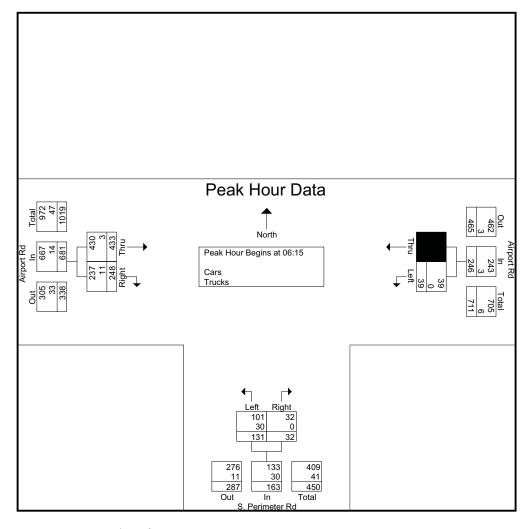
File Name : 17266002 Site Code : 17266002 Start Date : 10/22/2009 Page No : 1

Groups Printed- Cars - Trucks

		Airport Rd			Perimeter Ro		Tracks	Airport Rd]		
						,						
2		rom East			rom South			From West				
Start Time	Left	Thru	Peds	Left	Right	Peds	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
06:00	7	41	0	9	5	0	101	38	0	0	201	201
06:15	7	52	0	12	7	0	114	49	0	0	241	241
06:30	11	33	0	27	8	0	132	61	0	0	272	272
06:45	9	42	0	39	9	0	98	88	0	0	285	285
Total	34	168	0	87	29	0	445	236	0	0	999	999
07:00	12	80	0	53	8	0	89	50	0	0	292	292
07:15	13	33	0	22	13	0	73	47	0	0	201	201
07:30	12	34	0	49	10	0	81	66	0	0	252	252
07:45	10	36	0	39	13	0	83	95	0	0	276	276
Total	47	183	0	163	44	0	326	258	0	0	1021	1021
08:00	12	39	0	41	12	0	77	66	0	0	247	247
08:15	18	35	0	63	8	0	77	50	0	0	251	251
08:30	9	58	0	44	12	0	87	50	0	0	260	260
08:45	6	45	0	33	10	0	88	40	0	0	222	222
Total	45	177	0	181	42	0	329	206	0	0	980	980
Grand Total	126	528	0	431	115	0	1100	700	0	0	3000	3000
Apprch %	19.3	80.7		78.9	21.1		61.1	38.9				
Total %	4.2	17.6		14.4	3.8		36.7	23.3		0	100	
Cars	125	517		335	112		1089	665		0	0	2843
% Cars	99.2	97.9	0	77.7	97.4	0	99	95	0	0	0	94.8
Trucks	1	11		96	3		11	35		0	0	157
% Trucks	0.8	2.1	0	22.3	2.6	0	1	5	0	0	0	5.2
			- 1			- 1						

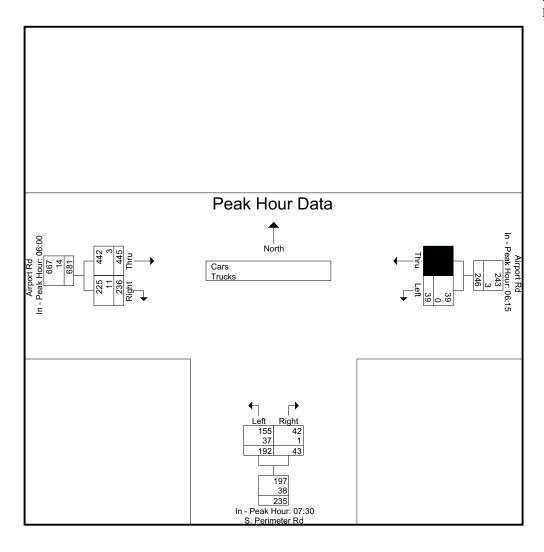
		Airport Rd From East			. Perimeter R From South	d		Airport Rd From West		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From				Lon	rugiit	7 tpp. Total	11114	rugin	App. Total	mic rotar
Peak Hour for Entire Inter										
06:15	Ž	52	59	12	7	19	114	49	163	241
06:30	11	33	44	27	8	35	132	61	193	272
06:45	9	42	51	39	9	48	98	88	186	285
07:00	12	80	92	53	8	61	89	50	139	292
Total Volume	39	207	246	131	32	163	433	248	681	1090
Maria	15.9	84.1		80.4	19.6		63.6	36.4		
PHF	.813	.647	.668	.618	.889	.668	.820	.705	.882	.933
Cars	39	204	243	101	32	133	430	237	667	1043
% Cars	100	98.6	98.8	77.1	100	81.6	99.3	95.6	97.9	95.7
Trucks	0	3	3	30	0	30	3	11	14	47
% Trucks	0	1.4	1.2	22.9	0	18.4	0.7	4.4	2.1	4.3

Page No : 2



Peak Hour Analysis From 06:00 to 08:45 - Peak 1 of 1

	06:15			07:30			06:00		
+0 mins.	7	52	59	49	10	59	101	38	139
+15 mins.	11	33	44	39	13	52	114	49	163
+30 mins.	9	42	51	41	12	53	132	61	193
+45 mins.	12	80	92	63	8	71	98	88	186
Total Volume	39	207	246	192	43	235	445	236	681
% App. Total	15.9	84.1		81.7	18.3		65.3	34.7	
PHF	.813	.647	.668	.762	.827	.827	.843	.670	.882
Cars	39	204	243	155	42	197	442	225	667
% Cars	100	98.6	98.8	80.7	97.7	83.8	99.3	95.3	97.9
Trucks	0	3	3	37	1	38	3	11	14
% Trucks	0	1.4	1.2	19.3	2.3	16.2	0.7	4.7	2.1



N/S Street : South Perimeter Road E/W Street: Airport Road City/State : Manchester, NH Weather : Clear

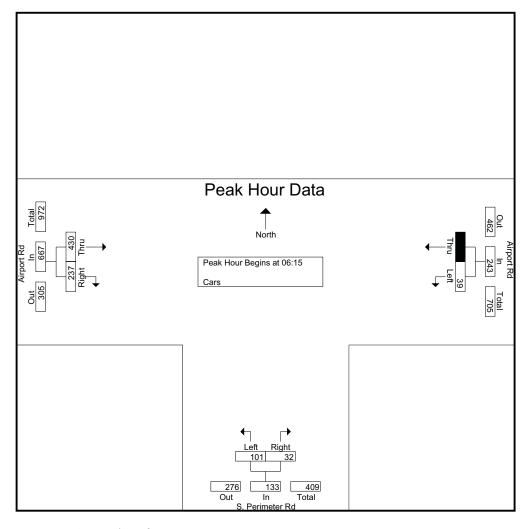
File Name : 17266002 Site Code : 17266002 Start Date : 10/22/2009 Page No : 1

Groups Printed- Cars

						i illitou- Ç				1		
	A	irport Rd		S. P	erimeter Ro		Α	irport Rd				
	Fr	rom East		Fre	om South		Fi	rom West				
Start Time	Left	Thru	Peds	Left	Right	Peds	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
06:00	7	41	0	5	5	0	99	34	0	0	191	191
06:15	7	51	0	6	7	0	113	48	0	0	232	232
06:30	11	33	0	19	8	0	132	59	0	0	262	262
06:45	9	41	0	32	9	0	98	84	0	0	273	273
Total	34	166	0	62	29	0	442	225	0	0	958	958
07:00	12	79	0	44	8	0	87	46	0	0	276	276
07:15	13	32	0	20	12	0	72	46	0	0	195	195
07:30	12	32	0	47	9	0	80	60	0	0	240	240
07:45	10	34	0	34	13	0	82	94	0	0	267	267
Total	47	177	0	145	42	0	321	246	0	0	978	978
08:00	12	38	0	36	12	0	76	65	0	0	239	239
08:15	18	34	0	38	8	0	77	46	0	0	221	221
08:30	9	58	0	24	11	0	86	46	0	0	234	234
08:45	5	44	0	30	10	0	87	37	0	0	213	213
Total	44	174	0	128	41	0	326	194	0	0	907	907
Grand Total	125	517	0	335	112	0	1089	665	0	0	2843	2843
Apprch %	19.5	80.5		74.9	25.1		62.1	37.9				
Total %	4.4	18.2		11.8	3.9		38.3	23.4		0	100	

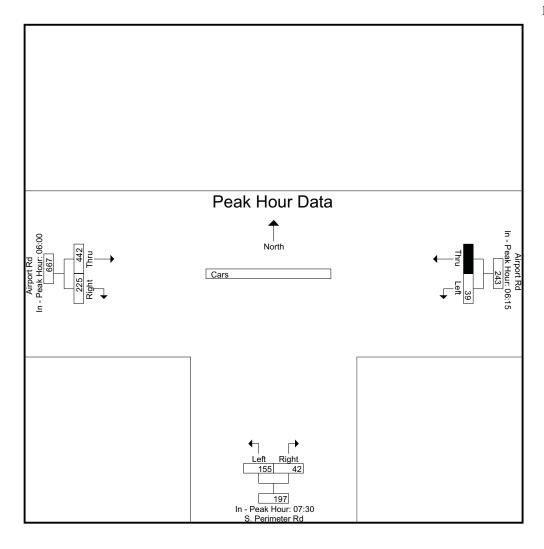
		Airport Rd From East		S	6. Perimeter F From South			Airport Rd From West		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From	06:00 to 08:4	45 - Peak 1 of	1		_			_		
Peak Hour for Entire Inter	section Begin	ns at 06:15								
06:15	7	51	58	6	7	13	113	48	161	232
06:30	11	33	44	19	8	27	132	59	191	262
06:45	9	41	50	32	9	41	98	84	182	273
07:00	12	79	91	44	8	52	87	46	133	276
Total Volume	39	204	243	101	32	133	430	237	667	1043
% App. Total	16	84		75.9	24.1		64.5	35.5		
PHF	.813	.646	.668	.574	.889	.639	.814	.705	.873	.945

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Peak Hour Analysis From 06:00 to 08:45 - Peak 1 of 1

	06:15			07:30			06:00		
+0 mins.	7	51	58	47	9	56	99	34	133
+15 mins.	11	33	44	34	13	47	113	48	161
+30 mins.	9	41	50	36	12	48	132	59	191
+45 mins.	12	79	91	38	8	46	98	84	182
Total Volume	39	204	243	155	42	197	442	225	667
% App. Total	16	84		78.7	21.3		66.3	33.7	
PHF	.813	.646	.668	.824	.808	.879	.837	.670	.873



N/S Street : South Perimeter Road E/W Street: Airport Road City/State : Manchester, NH Weather : Clear

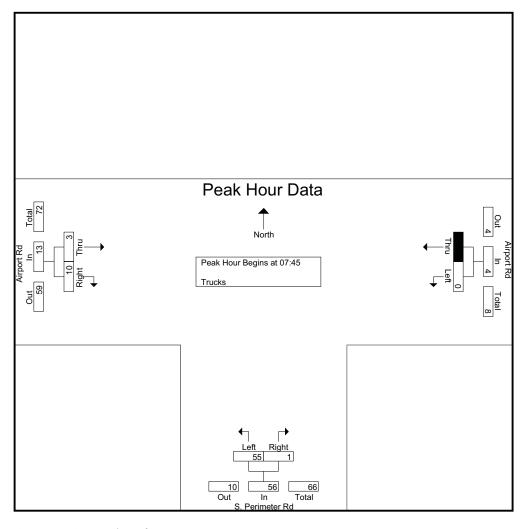
File Name : 17266002 Site Code : 17266002 Start Date : 10/22/2009 Page No : 1

Groups Printed- Trucks

	Α	irport Rd		S. P	erimeter Ro	l	· ·	Airport Rd				
	F	rom East		Fr	om South		F	rom West				
Start Time	Left	Thru	Peds	Left	Right	Peds	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
06:00	0	0	0	4	0	0	2	4	0	0	10	10
06:15	0	1	0	6	0	0	1	1	0	0	9	9
06:30	0	0	0	8	0	0	0	2	0	0	10	10
06:45	0	11	0	7	0	0	0	4	0	0	12	12_
Total	0	2	0	25	0	0	3	11	0	0	41	41
07:00	0	1	0	9	0	0	2	4	0	0	16	16
07:15	0	1	0	2	1	0	1	1	0	0	6	6
07:30	0	2	0	2	1	0	1	6	0	0	12	12
07:45	0	2	0	5	0	0	1_	1	0	0	9	9
Total	0	6	0	18	2	0	5	12	0	0	43	43
08:00	0	1	0	5	0	0	1	1	0	0	8	8
08:15	0	1	0	25	0	0	0	4	0	0	30	30
08:30	0	0	0	20	1	0	1	4	0	0	26	26
08:45	1	1	0	3	0	0	1	3	0	0	9	9_
Total	1	3	0	53	1	0	3	12	0	0	73	73
Grand Total	1	11	0	96	3	0	11	35	0	0	157	157
Apprch %	8.3	91.7		97	3		23.9	76.1				
Total %	0.6	7		61.1	1.9		7	22.3		0	100	

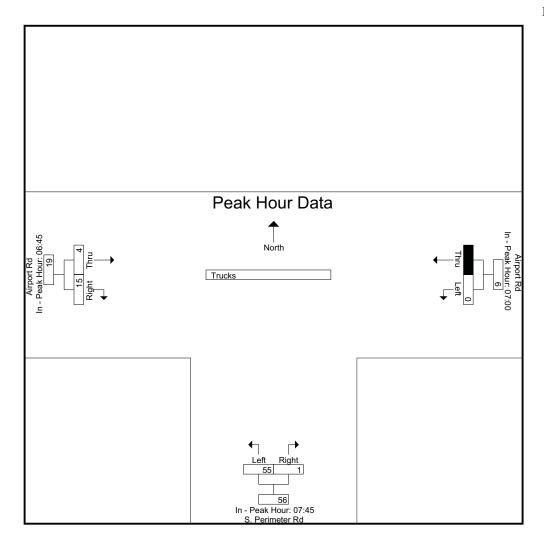
		Airport Rd From East		;	S. Perimeter I From South			Airport Rd From West		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From	06:00 to 08:4	45 - Peak 1 of	1					_		
Peak Hour for Entire Inter	section Begin	ns at 07:45								
07:45	0	2	2	5	0	5	1	1	2	9
08:00	0	1	1	5	0	5	1	1	2	8
08:15	0	1	1	25	0	25	0	4	4	30
08:30	0	0	0	20	1	21	1	4	5	26
Total Volume	0	4	4	55	1	56	3	10	13	73
% App. Total	0	100		98.2	1.8		23.1	76.9		
PHF	.000	.500	.500	.550	.250	.560	.750	.625	.650	.608

Page No : 2



Peak Hour Analysis From 06:00 to 08:45 - Peak 1 of 1

	1	_							
	07:00			07:45			06:45		
+0 mins.	0	1	1	5	0	5	0	4	4
+15 mins.	0	1	1	5	0	5	2	4	6
+30 mins.	0	2	2	25	0	25	1	1	2
+45 mins.	0	2	2	20	1	21	1	6	7
Total Volume	0	6	6	55	1	56	4	15	19
Mark App. Total	0	100		98.2	1.8		21.1	78.9	
PHF	.000	.750	.750	.550	.250	.560	.500	.625	.679



N/S Street : South Perimeter Road E/W Street: Airport Road City/State : Manchester, NH Weather : Clear

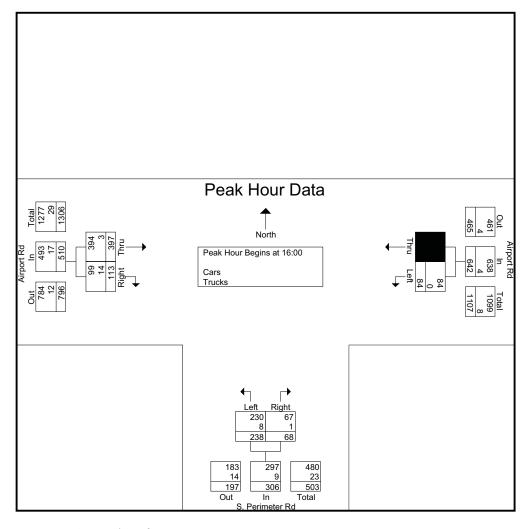
File Name : 17266002 Site Code : 17266002 Start Date : 10/22/2009 Page No : 1

Groups Printed- Cars - Trucks

	Α.	land and Dark			aroupo i iiii		TTUCKS	A ! D .!		1		
		irport Rd			erimeter Ro	ı		Airport Rd				
		rom East_			om South			rom West				
Start Time	Left	Thru	Peds	Left	Right	Peds	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
16:00	18	136	0	57	19	0	129	36	0	0	395	395
16:15	26	145	0	48	17	0	104	20	0	0	360	360
16:30	16	148	0	69	17	0	92	34	0	0	376	376
16:45	24	129	0	64	15	0	72	23	0	0	327	327
Total	84	558	0	238	68	0	397	113	0	0	1458	1458
17:00	17	163	0	55	8	0	65	30	0	0	338	338
17:15	15	159	0	73	18	0	56	27	0	0	348	348
17:30	15	99	0	62	10	0	47	36	0	0	269	269
17:45	10	32	0	34	6	0	38	45	0	0	165	165
Total	57	453	0	224	42	0	206	138	0	0	1120	1120
18:00	7	56	0	43	9	0	39	26	0	0	180	180
18:15	7	91	0	34	17	0	24	22	0	0	195	195
18:30	16	58	0	31	17	0	34	52	1	1	208	209
18:45	11	59	0	20	6	0	29	22	0	0	147	147
Total	41	264	0	128	49	0	126	122	1	1	730	731
Grand Total	182	1275	0	590	159	0	729	373	1	1	3308	3309
Apprch %	12.5	87.5		78.8	21.2		66.2	33.8				
Total %	5.5	38.5		17.8	4.8		22	11.3		0	100	
Cars	181	1271		571	158		725	337		0	0	3244
% Cars	99.5	99.7	0	96.8	99.4	0	99.5	90.3	100	0	0	98
Trucks	1	4		19	1		4	36		0	0	65
% Trucks	0.5	0.3	0	3.2	0.6	0	0.5	9.7	0	0	0	2

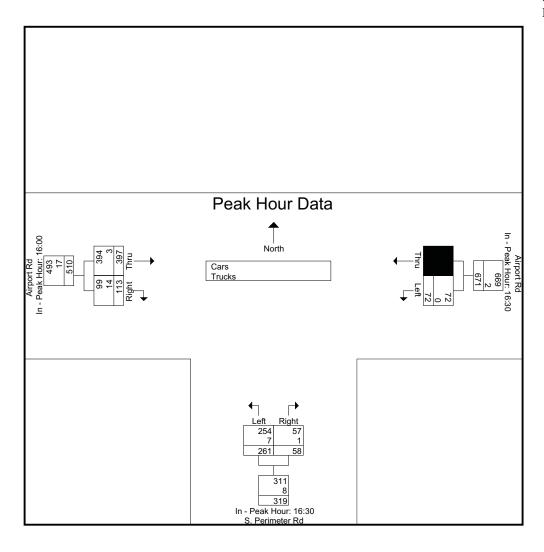
		Airport Rd From East			Perimeter R	ld		Airport Rd From West		
O: . T	1 6		A T			A T	T I		A T. I	
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From	16:00 to 18:4	15 - Peak 1 of	1							
Peak Hour for Entire Inter	section Begin	ns at 16:00								
16:00	18	136	154	57	19	76	129	36	165	395
16:15	26	145	171	48	17	65	104	20	124	360
16:30	16	148	164	69	17	86	92	34	126	376
16:45	24	129	153	64	15	79	72	23	95	327
Total Volume	84	558	642	238	68	306	397	113	510	1458
% App. Total	13.1	86.9		77.8	22.2		77.8	22.2		
PHF	.808	.943	.939	.862	.895	.890	.769	.785	.773	.923
Cars	84	554	638	230	67	297	394	99	493	1428
% Cars	100	99.3	99.4	96.6	98.5	97.1	99.2	87.6	96.7	97.9
Trucks	0	4	4	8	1	9	3	14	17	30
% Trucks	0	0.7	0.6	3.4	1.5	2.9	8.0	12.4	3.3	2.1

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Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1

1 cak 110ai 10i Each 11	pproden begi	iii ut.							
	16:30			16:30			16:00		
+0 mins.	16	148	164	69	17	86	129	36	165
+15 mins.	24	129	153	64	15	79	104	20	124
+30 mins.	17	163	180	55	8	63	92	34	126
+45 mins.	15	159	174	73	18	91	72	23	95
Total Volume	72	599	671	261	58	319	397	113	510
% App. Total	10.7	89.3		81.8	18.2		77.8	22.2	
PHF	.750	.919	.932	.894	.806	.876	.769	.785	.773
Cars	72	597	669	254	57	311	394	99	493
% Cars	100	99.7	99.7	97.3	98.3	97.5	99.2	87.6	96.7
Trucks	0	2	2	7	1	8	3	14	17
% Trucks	0	0.3	0.3	2.7	1.7	2.5	0.8	12.4	3.3



N/S Street : South Perimeter Road E/W Street: Airport Road City/State : Manchester, NH Weather : Clear

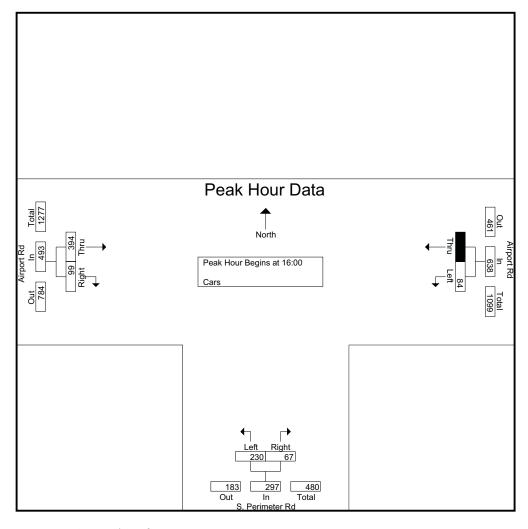
File Name : 17266002 Site Code : 17266002 Start Date : 10/22/2009 Page No : 1

Groups Printed- Cars

	Α	irport Rd		S. P	erimeter Ro	1	P	Airport Rd				
	F	rom East		Fr	om South		F	rom West				
Start Time	Left	Thru	Peds	Left	Right	Peds	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
16:00	18	135	0	56	19	0	129	28	0	0	385	385
16:15	26	144	0	48	17	0	103	20	0	0	358	358
16:30	16	147	0	62	16	0	91	28	0	0	360	360
16:45	24	128	0	64	15	0	71	23	0	0	325	325
Total	84	554	0	230	67	0	394	99	0	0	1428	1428
17:00	17	163	0	55	8	0	65	23	0	0	331	331
17:15	15	159	0	73	18	0	56	27	0	0	348	348
17:30	15	99	0	57	10	0	46	34	0	0	261	261
17:45	10	32	0	34	6	0	38	45	0	0	165	165
Total	57	453	0	219	42	0	205	129	0	0	1105	1105
18:00	6	56	0	40	9	0	39	20	0	0	170	170
18:15	7	91	0	34	17	0	24	22	0	0	195	195
18:30	16	58	0	28	17	0	34	45	1	1	198	199
18:45	11	59	0	20	6	0	29	22	0	0	147	147
Total	40	264	0	122	49	0	126	109	1	1	710	711
Grand Total Apprch %	181 12.5	1271 87.5	0	571 78.3	158 21.7	0	725 68.3	337 31.7	1	1	3243	3244
Total %	5.6	39.2		17.6	4.9		22.4	10.4		0	100	

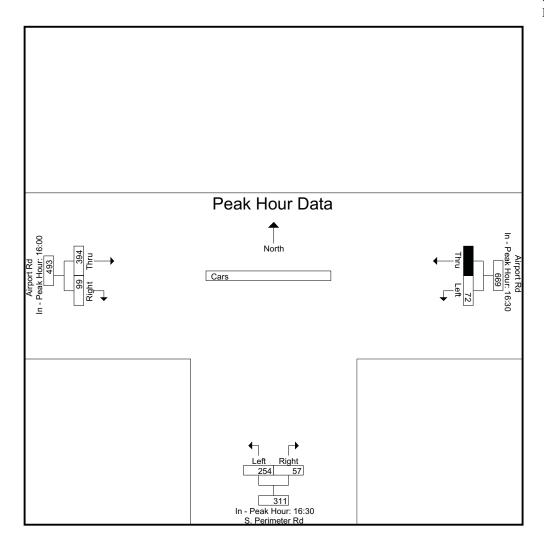
		Airport Rd From East		S	. Perimeter F From South			Airport Rd From West		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From	16:00 to 18:4	15 - Peak 1 of	1		<u> </u>					
Peak Hour for Entire Inter	section Begin	ns at 16:00								
16:00	18	135	153	56	19	75	129	28	157	385
16:15	26	144	170	48	17	65	103	20	123	358
16:30	16	147	163	62	16	78	91	28	119	360
16:45	24	128	152	64	15	79	71	23	94	325
Total Volume	84	554	638	230	67	297	394	99	493	1428
% App. Total	13.2	86.8		77.4	22.6		79.9	20.1		
PHF	.808	.942	.938	.898	.882	.940	.764	.884	.785	.927

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Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1

	16:30			16:30			16:00		
+0 mins.	16	147	163	62	16	78	129	28	157
+15 mins.	24	128	152	64	15	79	103	20	123
+30 mins.	17	163	180	55	8	63	91	28	119
+45 mins.	15	159	174	73	18	91	71	23	94
Total Volume	72	597	669	254	57	311	394	99	493
% App. Total	10.8	89.2		81.7	18.3		79.9	20.1	
PHF	.750	.916	.929	.870	.792	.854	.764	.884	.785



N/S Street: South Perimeter Road E/W Street: Airport Road City/State: Manchester, NH Weather: Clear

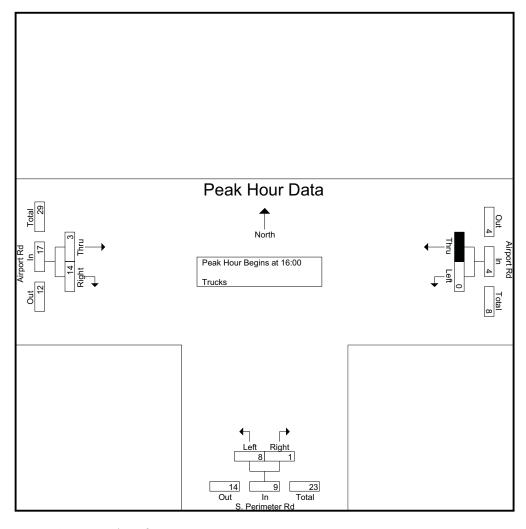
File Name : 17266002 Site Code : 17266002 Start Date : 10/22/2009 Page No : 1

Groups Printed- Trucks

	Ai	rport Rd		S. Pe	erimeter Ro		A	irport Rd				
		om East		Fre	om South			rom West				
Start Time	Left	Thru	Peds	Left	Right	Peds	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
16:00	0	1	0	1	0	0	0	8	0	0	10	10
16:15	0	1	0	0	0	0	1	0	0	0	2	2
16:30	0	1	0	7	1	0	1	6	0	0	16	16
16:45	0	1	0	0	0	0	1_	0	0	0	2	2
Total	0	4	0	8	1	0	3	14	0	0	30	30
17:00	0	0	0	0	0	0	0	7	0	0	7	7
17:15	0	0	0	0	0	0	0	0	0	0	0	0
17:30	0	0	0	5	0	0	1	2	0	0	8	8
17:45	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	5	0	0	1	9	0	0	15	15
18:00	1	0	0	3	0	0	0	6	0	0	10	10
18:15	0	0	0	0	0	0	0	0	0	0	0	0
18:30	0	0	0	3	0	0	0	7	0	0	10	10
18:45	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	6	0	0	0	13	0	0	20	20
Grand Total	1	4	0	19	1	0	4	36	0	0	65	65
Apprch %	20	80		95	5		10	90				
Total %	1.5	6.2		29.2	1.5		6.2	55.4		0	100	

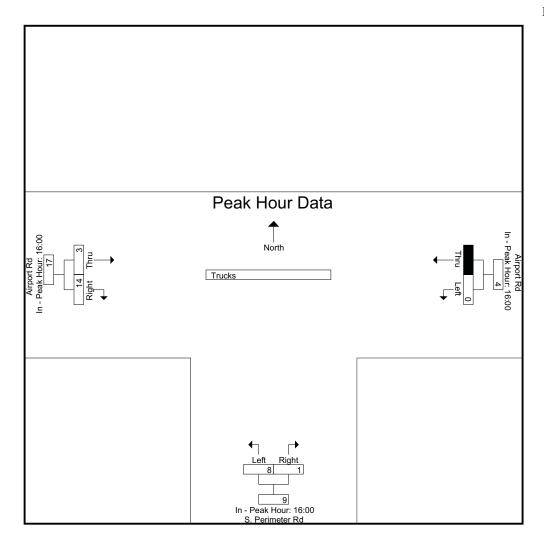
		Airport Rd From East		;	S. Perimeter F From South			Airport Rd From West		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From	16:00 to 18:4	45 - Peak 1 of	f 1							
Peak Hour for Entire Inter	section Begin	ns at 16:00								
16:00	Ō	1	1	1	0	1	0	8	8	10
16:15	0	1	1	0	0	0	1	0	1	2
16:30	0	1	1	7	1	8	1	6	7	16
16:45	0	1	1	0	0	0	1	0	1	2
Total Volume	0	4	4	8	1	9	3	14	17	30
% App. Total	0	100		88.9	11.1		17.6	82.4		
PHF	.000	1.000	1.000	.286	.250	.281	.750	.438	.531	.469

Page No : 2



Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1

	16:00			16:00			16:00		
+0 mins.	0	1	1	1	0	1	0	8	8
+15 mins.	0	1	1	0	0	0	1	0	1
+30 mins.	0	1	1	7	1	8	1	6	7
+45 mins.	0	1	1	0	0	0	1	0	1
Total Volume	0	4	4	8	1	9	3	14	17
% App. Total	0	100		88.9	11.1		17.6	82.4	
PHF	.000	1.000	1.000	.286	.250	.281	.750	.438	.531



N/S Street: Parking Area E/W Street: Airport Road City/State : Manchester, NH Weather : Clear

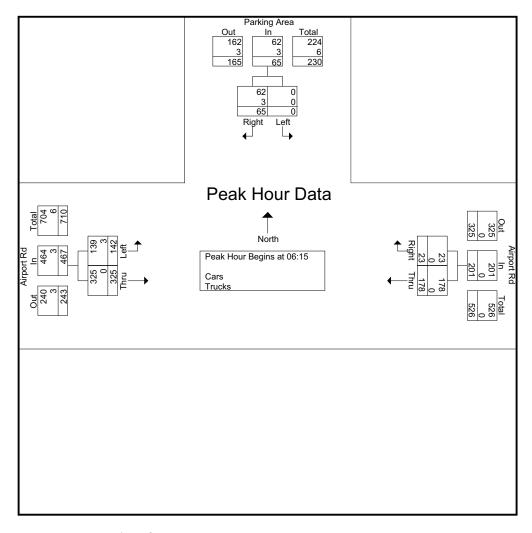
File Name : 17266003 Site Code : 17266003 Start Date : 10/22/2009 Page No : 1

Groups Printed- Cars - Trucks

	Pa	rking Area		Α	irport Rd		,	Airport Rd				
	Fi	om North		F	rom East_		F	rom West				
Start Time	Left	Right	Peds	Thru	Right	Peds	Left	Thru	Peds	Exclu. Total	Inclu. Total	Int. Total
06:00	1	0	0	49	1	0	15	91	0	0	157	157
06:15	0	3	0	56	7	0	26	97	0	0	189	189
06:30	0	10	0	33	4	0	43	97	0	0	187	187
06:45	0	12	0	40	4	0	46	62	0	0	164	164
Total	1	25	0	178	16	0	130	347	0	0	697	697
27.00		40	•	40		•	07		•		400	400
07:00	0	40	0	49	8	0	27	69	0	0	193	193
07:15	0	8	0	40	13	0	23	61	0	0	145	145
07:30	0	5	0	42	5	0	27	64	0	0	143	143
07:45	0	6	0	41	5	0	33	63	0	0	148	148
Total	0	59	0	172	31	0	110	257	0	0	629	629
08:00	0	9	0	41	7	0	25	63	0	0	145	145
08:15	1	6	0	47	0	0	25	58	0	0	137	137
08:30	1	9	0	58	8	0	29	73	0	0	178	178
08:45	1	6	0	46	7	0	16	84	0	0	160	160
Total	3	30	0	192	22	0	95	278	0	0	620	620
Total	· ·	00	0	102		0	00	270	O		020	020
Grand Total	4	114	0	542	69	0	335	882	0	0	1946	1946
Apprch %	3.4	96.6		88.7	11.3		27.5	72.5				
Total %	0.2	5.9		27.9	3.5		17.2	45.3		0	100	
Cars	4	104		540	69		324	879		0	0	1920
% Cars	100	91.2	0	99.6	100	0	96.7	99.7	0	0	0	98.7
Trucks	0	10		2	0		11	3		0	0	26
% Trucks	0	8.8	0	0.4	0	0	3.3	0.3	0	0	0	1.3

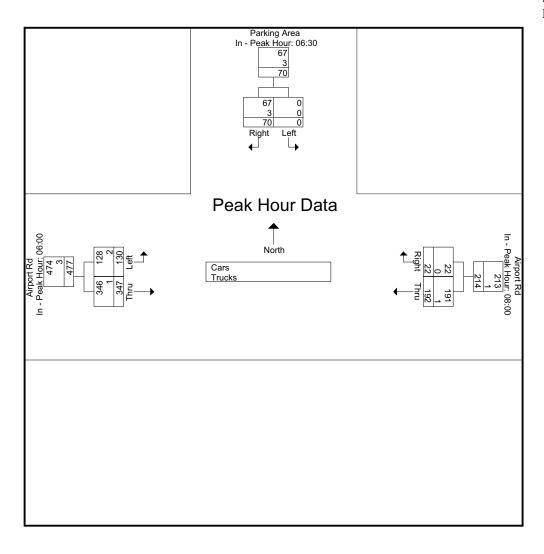
		Parking Area From North			Airport Rd From East			Airport Rd From West		
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From	06:00 to 08:4	5 - Peak 1 of	1		-					
Peak Hour for Entire Inter	section Begin	s at 06:15								
06:15	Ö	3	3	56	7	63	26	97	123	189
06:30	0	10	10	33	4	37	43	97	140	187
06:45	0	12	12	40	4	44	46	62	108	164
07:00	0	40	40	49	8	57	27	69	96	193
Total Volume	0	65	65	178	23	201	142	325	467	733
% App. Total	0	100		88.6	11.4		30.4	69.6		
PHF	.000	.406	.406	.795	.719	.798	.772	.838	.834	.949
Cars	0	62	62	178	23	201	139	325	464	727
% Cars	0	95.4	95.4	100	100	100	97.9	100	99.4	99.2
Trucks	0	3	3	0	0	0	3	0	3	6
% Trucks	0	4.6	4.6	0	0	0	2.1	0	0.6	0.8

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Peak Hour Analysis From 06:00 to 08:45 - Peak 1 of 1

	06:30			08:00			06:00		
+0 mins.	0	10	10	41	7	48	15	91	106
+15 mins.	0	12	12	47	0	47	26	97	123
+30 mins.	0	40	40	58	8	66	43	97	140
+45 mins.	0	8	8	46	7	53	46	62	108
Total Volume	0	70	70	192	22	214	130	347	477
% App. Total	0	100		89.7	10.3		27.3	72.7	
PHF	.000	.438	.438	.828	.688	.811	.707	.894	.852
Cars	0	67	67	191	22	213	128	346	474
% Cars	0	95.7	95.7	99.5	100	99.5	98.5	99.7	99.4
Trucks	0	3	3	1	0	1	2	1	3
% Trucks	0	4.3	4.3	0.5	0	0.5	1.5	0.3	0.6



N/S Street: Parking Area E/W Street: Airport Road City/State : Manchester, NH Weather : Clear

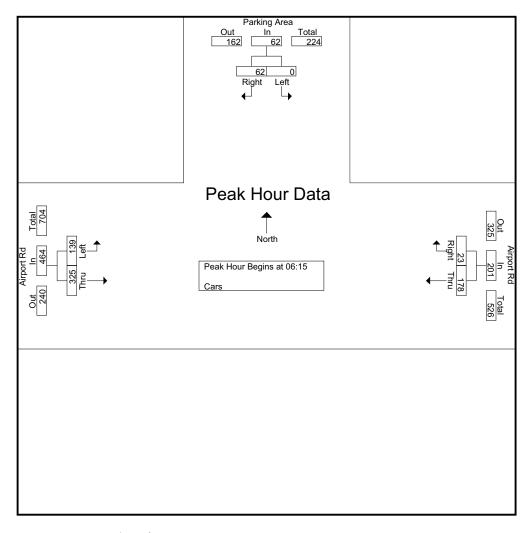
File Name : 17266003 Site Code : 17266003 Start Date : 10/22/2009 Page No : 1

Groups Printed- Cars

						i iiiitoa Ç				1		
	Pa	rking Area		Α	irport Rd		Α	irport Rd				
	Fr	om North		F	rom East		F	rom West				
Start Time	Left	Right	Peds	Thru	Right	Peds	Left	Thru	Peds	Exclu. Total	Inclu. Total	Int. Total
06:00	1	0	0	49	1	0	14	90	0	0	155	155
06:15	0	2	0	56	7	0	25	97	0	0	187	187
06:30	0	10	0	33	4	0	43	97	0	0	187	187
06:45	0	11	0	40	4	0	46	62	0	0	163	163
Total	1	23	0	178	16	0	128	346	0	0	692	692
07:00	0	39	0	49	8	0	25	69	0	0	190	190
07:15	0	7	0	40	13	0	21	61	0	0	142	142
07:30	0	3	0	42	5	0	25	64	0	0	139	139
07:45	0	5	0	40	5	0	33	62	0	0	145	145
Total	0	54	0	171	31	0	104	256	0	0	616	616
08:00	0	8	0	41	7	0	24	63	0	0	143	143
08:15	1	5	0	47	0	0	25	58	0	0	136	136
08:30	1	9	0	58	8	0	27	73	0	0	176	176
08:45	1	5	0	45	7	0	16	83	0	0	157	157
Total	3	27	0	191	22	0	92	277	0	0	612	612
Grand Total	4	104	0	540	69	0	324	879	0	0	1920	1920
Apprch %	3.7	96.3		88.7	11.3		26.9	73.1				
Total %	0.2	5.4		28.1	3.6		16.9	45.8		0	100	

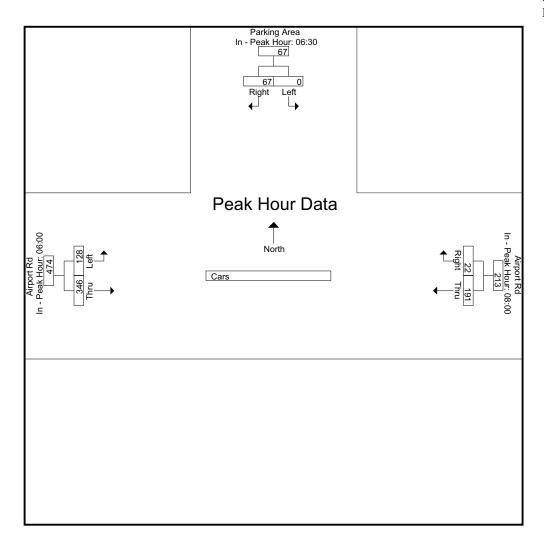
		Parking Area From North			Airport Rd From East			Airport Rd From West		
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From	06:00 to 08:4	45 - Peak 1 of	1		_					
Peak Hour for Entire Inter	section Begin	ns at 06:15								
06:15	0	2	2	56	7	63	25	97	122	187
06:30	0	10	10	33	4	37	43	97	140	187
06:45	0	11	11	40	4	44	46	62	108	163
07:00	0	39	39	49	8	57	25	69	94	190
Total Volume	0	62	62	178	23	201	139	325	464	727
% App. Total	0	100		88.6	11.4		30	70		
PHF	.000	.397	.397	.795	.719	.798	.755	.838	.829	.957

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Peak Hour Analysis From 06:00 to 08:45 - Peak 1 of 1

	06:30			08:00			06:00		
+0 mins.	0	10	10	41	7	48	14	90	104
+15 mins.	0	11	11	47	0	47	25	97	122
+30 mins.	0	39	39	58	8	66	43	97	140
+45 mins.	0	7	7	45	7	52	46	62	108
Total Volume	0	67	67	191	22	213	128	346	474
% App. Total	0	100		89.7	10.3		27	73	
PHF	.000	.429	.429	.823	.688	.807	.696	.892	.846



Accurate Counts 978-664-2565

N/S Street: Parking Area E/W Street: Airport Road City/State: Manchester, NH Weather: Clear

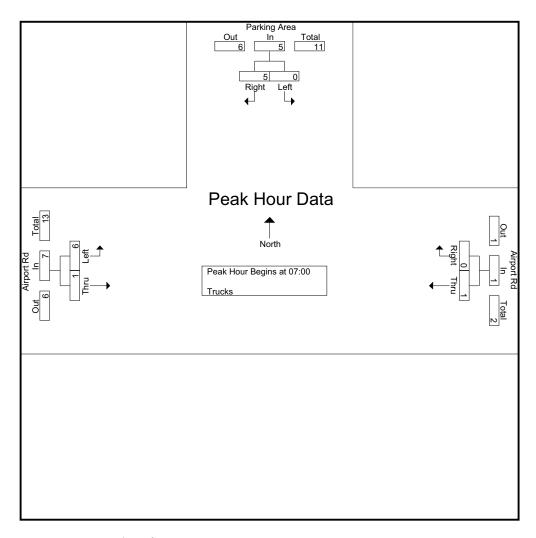
File Name : 17266003 Site Code : 17266003 Start Date : 10/22/2009 Page No : 1

Groups Printed- Trucks

						micou II				1		
	Pa	rking Area		Α	irport Rd		Α	irport Rd				
	Fr	om North		F	rom East		Fi	rom West				
Start Time	Left	Right	Peds	Thru	Right	Peds	Left	Thru	Peds	Exclu. Total	Inclu. Total	Int. Total
06:00	0	0	0	0	0	0	1	1	0	0	2	2
06:15	0	1	0	0	0	0	1	0	0	0	2	2
06:30	0	0	0	0	0	0	0	0	0	0	0	0
06:45	0	1	0	0	0	0	0	0	0	0	1	1_
Total	0	2	0	0	0	0	2	1	0	0	5	5
07:00	0	1	0	0	0	0	2	0	0	0	3	3
07:15	0	1	o l	0	0	0	2	0	0	0	3	3
07:30	0	2	o l	0	0	0	2	0	0	0	4	4
07:45	Ō	1	0	1	Ō	Ö	0	1	0	0	3	3
Total	0	5	0	1	0	0	6	1	0	0	13	13
08:00	0	1	0	0	0	0	1	0	0	0	2	2
08:15	0	1	0	0	Ö	0	0	0	0	0	- 1	1
08:30	0	0	0	0	0	0	2	0	0	0	2	2
08:45	0	1	0	1	0	0	0	1	0	0	3	3
Total	0	3	0	1	0	0	3	1	0	0	8	8
Grand Total	0	10	0	2	0	0	11	3	0	0	26	26
Apprch %	0	100	-	100	Ō	-	78.6	21.4	_			
Total %	0	38.5		7.7	0		42.3	11.5		0	100	

		Parking Area From North			Airport Rd From East			Airport Rd From West		
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From	06:00 to 08:4	45 - Peak 1 of	1					•		
Peak Hour for Entire Inter	section Begir	ns at 07:00								
07:00	0	1	1	0	0	0	2	0	2	3
07:15	0	1	1	0	0	0	2	0	2	3
07:30	0	2	2	0	0	0	2	0	2	4
07:45	0	1	1	1	0	1	0	1	1	3_
Total Volume	0	5	5	1	0	1	6	1	7	13
% App. Total	0	100		100	0		85.7	14.3		
PHF	.000	.625	.625	.250	.000	.250	.750	.250	.875	.813

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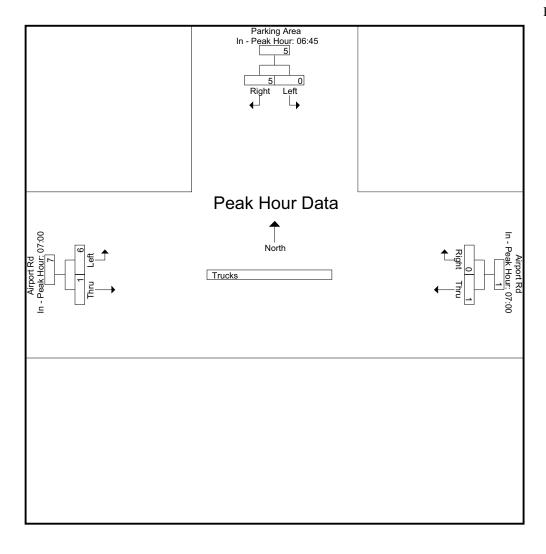


Peak Hour Analysis From 06:00 to 08:45 - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	06:45			07:00			07:00		
+0 mins.	0	1	1	0	0	0	2	0	2
+15 mins.	0	1	1	0	0	0	2	0	2
+30 mins.	0	1	1	0	0	0	2	0	2
+45 mins.	0	2	2	1	0	1	0	1	1
Total Volume	0	5	5	1	0	1	6	1	7
% App. Total	0	100		100	0		85.7	14.3	
PHF	.000	.625	.625	.250	.000	.250	.750	.250	.875

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N/S Street: Parking Area E/W Street: Airport Road City/State : Manchester, NH Weather : Clear

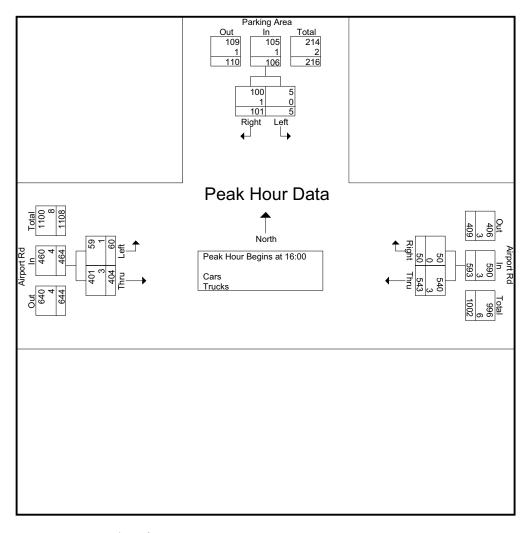
File Name : 17266003 Site Code : 17266003 Start Date : 10/22/2009 Page No : 1

Groups Printed- Cars - Trucks

	Pa	rking Area		Д	Airport Rd			Airport Rd				
	Fi	om North		F	rom East		F	rom West				
Start Time	Left	Right	Peds	Thru	Right	Peds	Left	Thru	Peds	Exclu. Total	Inclu. Total	Int. Total
16:00	3	35	0	120	15	0	20	130	0	0	323	323
16:15	1	15	0	157	13	0	11	108	0	0	305	305
16:30	0	26	0	137	16	0	20	90	0	0	289	289
16:45	1_	25	0	129	6	0	9	76	0	0	246	246
Total	5	101	0	543	50	0	60	404	0	0	1163	1163
47.00		00	•	4.40	40			00		1 0	000	000
17:00	4	30	0	148	13	0	11	62	0	0	268	268
17:15	0	27	0	146	7	0	12	62	0	0	254	254
17:30	1	15	0	101	6	0	13	43	0	0	179	179
17:45	0	16	0	24	12	0	5	38	0	0	95	95
Total	5	88	0	419	38	0	41	205	0	0	796	796
18:00	0	11	0	50	3	0	5	44	0	0	113	113
18:15	1	16	0	83	3	0	3	39	0	Ö	145	145
18:30	1	16	0	59	2	0	19	33	0	ň	130	130
18:45	0	15	0	55	2	0	12	21	0	Ö	105	105
Total	2	58	0	247	10	0	39	137	0	0	493	493
	•											
Grand Total	12	247	0	1209	98	0	140	746	0	0	2452	2452
Apprch %	4.6	95.4		92.5	7.5		15.8	84.2				
Total %	0.5	10.1		49.3	4		5.7	30.4		0	100	
Cars	12	245		1206	98		138	743		0	0	2442
% Cars	100	99.2	0	99.8	100	0	98.6	99.6	0	0	0	99.6
Trucks	0	2		3	0		2	3		0	0	10
% Trucks	0	0.8	0	0.2	0	0	1.4	0.4	0	0	0	0.4

		Parking Area From North			Airport Rd From East			Airport Rd From West		
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From	16:00 to 18:4	15 - Peak 1 of	1							
Peak Hour for Entire Inter	section Begin	ns at 16:00								
16:00	3	35	38	120	15	135	20	130	150	323
16:15	1	15	16	157	13	170	11	108	119	305
16:30	0	26	26	137	16	153	20	90	110	289
16:45	1	25	26	129	6	135	9	76	85	246
Total Volume	5	101	106	543	50	593	60	404	464	1163
% App. Total	4.7	95.3		91.6	8.4		12.9	87.1		
PHF	.417	.721	.697	.865	.781	.872	.750	.777	.773	.900
Cars	5	100	105	540	50	590	59	401	460	1155
% Cars	100	99.0	99.1	99.4	100	99.5	98.3	99.3	99.1	99.3
Trucks	0	1	1	3	0	3	1	3	4	8
% Trucks	0	1.0	0.9	0.6	0	0.5	1.7	0.7	0.9	0.7

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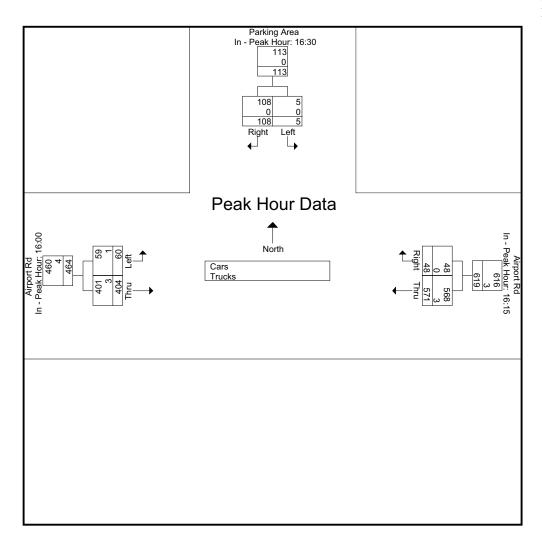


Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1

Peak Hour for Each Approach Begins at:

1 car from for Each fr	pprouen beg	ms at.							
	16:30			16:15			16:00		
+0 mins.	0	26	26	157	13	170	20	130	150
+15 mins.	1	25	26	137	16	153	11	108	119
+30 mins.	4	30	34	129	6	135	20	90	110
+45 mins.	0	27	27	148	13	161	9	76	85
Total Volume	5	108	113	571	48	619	60	404	464
Mapp. Total	4.4	95.6		92.2	7.8		12.9	87.1	
PHF	.313	.900	.831	.909	.750	.910	.750	.777	.773
Cars	5	108	113	568	48	616	59	401	460
% Cars	100	100	100	99.5	100	99.5	98.3	99.3	99.1
Trucks	0	0	0	3	0	3	1	3	4
% Trucks	0	0	0	0.5	0	0.5	1.7	0.7	0.9

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Accurate Counts 978-664-2565

N/S Street: Parking Area E/W Street: Airport Road City/State: Manchester, NH Weather: Clear

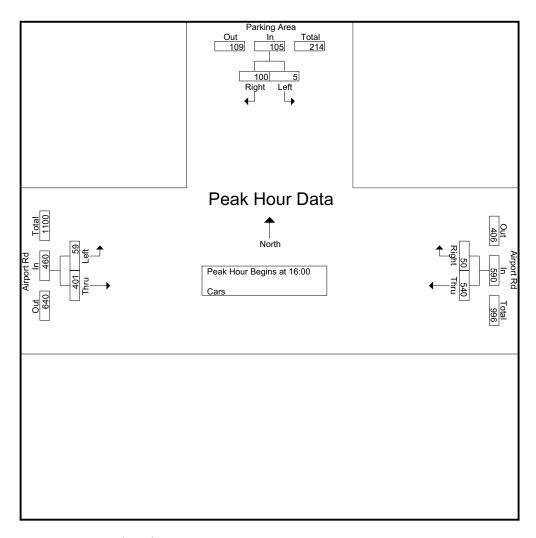
File Name : 17266003 Site Code : 17266003 Start Date : 10/22/2009 Page No : 1

Groups Printed- Cars

						Groupe	· ····································						
		Pa	rking Area		A	Airport Rd			Airport Rd				
			om North		F	rom East		ı	From West				
	Start Time	Left	Right	Peds	Thru	Right	Peds	Left	Thru	Peds	Exclu. Total	Inclu. Total	Int. Total
	16:00	3	34	0	120	15	0	20	130	0	0	322	322
	16:15	1	15	0	156	13	0	11	107	0	0	303	303
	16:30	0	26	0	136	16	0	19	89	0	0	286	286
	16:45	1	25	0	128	6	0	9	75	0	0	244	244
	Total	5	100	0	540	50	0	59	401	0	0	1155	1155
	17:00	4	30	0	148	13	0	11	62	0	0	268	268
	17:15	0	27	0	146	7	0	12	62	0	0	254	254
	17:30	1	15	0	101	6	0	12	43	0	0	178	178
	17:45	0	16	0	24	12	0	5	38	0	0	95	95
	Total	5	88	0	419	38	0	40	205	0	0	795	795
	1												
	18:00	0	10	0	50	3	0	5	44	0	0	112	112
	18:15	1	16	0	83	3	0	3	39	0	0	145	145
	18:30	1	16	0	59	2	0	19	33	0	0	130	130
_	18:45	0	15	0	55	2	0	12	21	0	0	105	105
	Total	2	57	0	247	10	0	39	137	0	0	492	492
	1										ı		
	Grand Total	12	245	0	1206	98	0	138	743	0	0	2442	2442
	Apprch %	4.7	95.3		92.5	7.5		15.7	84.3				
	Total %	0.5	10		49.4	4		5.7	30.4		0	100	

	ı	Parking Area			Airport Rd			Airport Rd		
		From North			From East			From West		
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From	16:00 to 18:45	5 - Peak 1 of	1		-					
Peak Hour for Entire Inter	section Begins	at 16:00								
16:00	3	34	37	120	15	135	20	130	150	322
16:15	1	15	16	156	13	169	11	107	118	303
16:30	0	26	26	136	16	152	19	89	108	286
16:45	1	25	26	128	6	134	9	75	84	244
Total Volume	5	100	105	540	50	590	59	401	460	1155
% App. Total	4.8	95.2		91.5	8.5		12.8	87.2		
PHF	417	735	709	865	781	873	738	771	767	897

Page No : 2

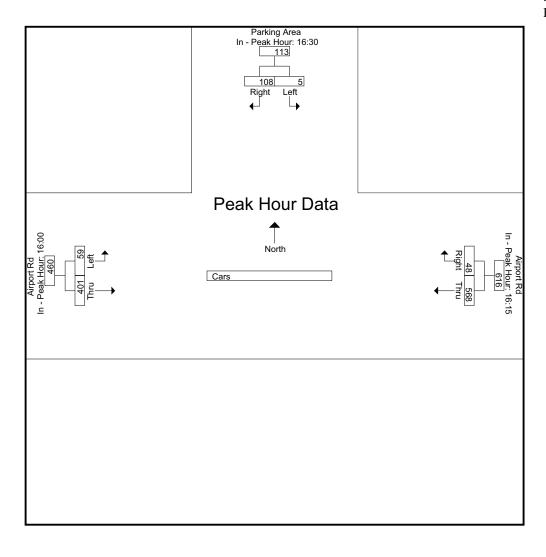


Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	16:30			16:15			16:00		
+0 mins.	0	26	26	156	13	169	20	130	150
+15 mins.	1	25	26	136	16	152	11	107	118
+30 mins.	4	30	34	128	6	134	19	89	108
+45 mins.	0	27	27	148	13	161	9	75	84
Total Volume	5	108	113	568	48	616	59	401	460
% App. Total	4.4	95.6		92.2	7.8		12.8	87.2	
PHF	.313	.900	.831	.910	.750	.911	.738	.771	.767

Page No : 3



Accurate Counts 978-664-2565

N/S Street: Parking Area E/W Street: Airport Road City/State: Manchester, NH Weather: Clear

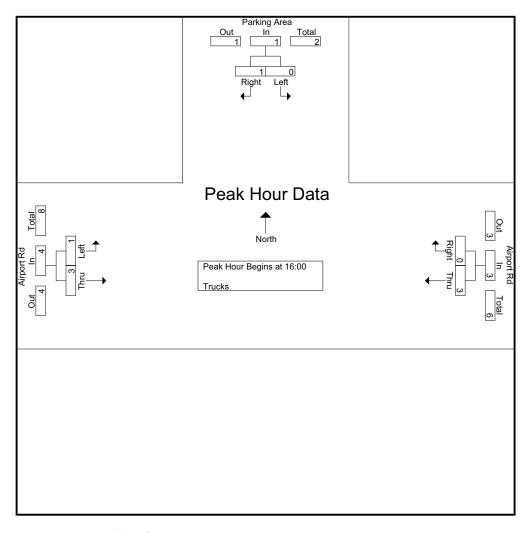
File Name : 17266003 Site Code : 17266003 Start Date : 10/22/2009 Page No : 1

Groups Printed- Trucks

						micou i						
	Pa	rking Area		Α	irport Rd		A	Airport Rd				
		om North			rom East		F	rom West				
Start Time	Left	Right	Peds	Thru	Right	Peds	Left	Thru	Peds	Exclu. Total	Inclu. Total	Int. Total
16:00	0	1	0	0	0	0	0	0	0	0	1	1
16:15	0	0	0	1	0	0	0	1	0	0	2	2
16:30	0	0	0	1	0	0	1	1	0	0	3	3
16:45	0	0	0	1	0	0	0	1	0	0	2	2
Total	0	1	0	3	0	0	1	3	0	0	8	8
17:00	0	0	0	0	0	0	0	0	0	0	0	0
17:15	0	0	0	0	0	0	0	0	0	0	0	0
17:30	0	0	0	0	0	0	1	0	0	0	1	1
17:45	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	0	0	0	1	1
18:00	0	1	0	0	0	0	0	0	0	0	1	1
18:15	0	0	0	0	0	0	0	0	0	0	0	0
18:30	0	0	0	0	0	0	0	0	0	0	0	0
18:45	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	0	0	0	0	0	0	1	1
Grand Total	0	2	0	3	0	0	2	3	0	0	10	10
Apprch %	0	100		100	0		40	60				
Total %	0	20		30	0		20	30		0	100	

		Parking Area From North			Airport Rd From East			Airport Rd From West		
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From	16:00 to 18:4	15 - Peak 1 of	1		_					
Peak Hour for Entire Inter	section Begin	ns at 16:00								
16:00	0	1	1	0	0	0	0	0	0	1
16:15	0	0	0	1	0	1	0	1	1	2
16:30	0	0	0	1	0	1	1	1	2	3
16:45	0	0	0	1	0	1	0	1	1	2
Total Volume	0	1	1	3	0	3	1	3	4	8
% App. Total	0	100		100	0		25	75		
PHF	.000	.250	.250	.750	.000	.750	.250	.750	.500	.667

Page No : 2

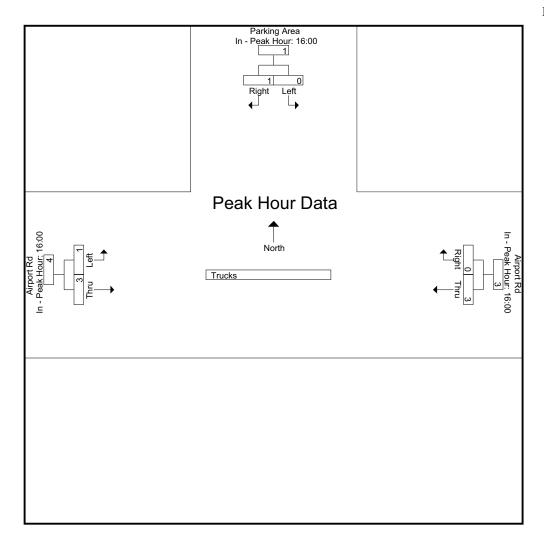


Peak Hour Analysis From 16:00 to 18:45 - Peak 1 of 1

Peak Hour for Each Approach Begins at:

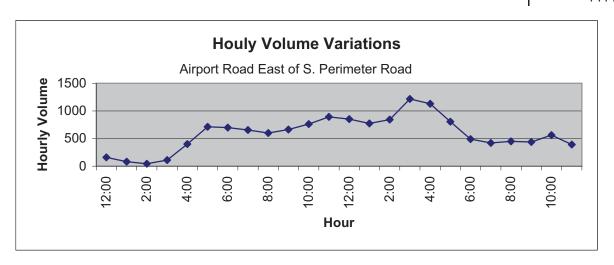
	16:00			16:00			16:00		
+0 mins.	0	1	1	0	0	0	0	0	0
+15 mins.	0	0	0	1	0	1	0	1	1
+30 mins.	0	0	0	1	0	1	1	1	2
+45 mins.	0	0	0	1	0	1	0	1	1
Total Volume	0	1	1	3	0	3	1	3	4
% App. Total	0	100		100	0		25	75	
PHF	.000	.250	.250	.750	.000	.750	.250	.750	.500

Page No : 3



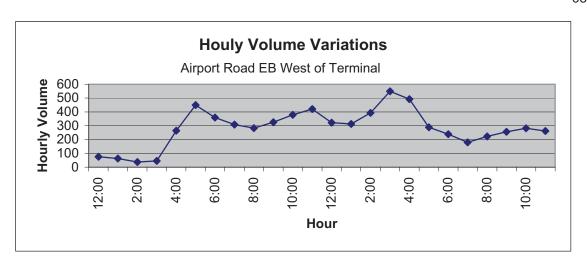
Airport Road East of S. Perimeter Road

From	То		Hour	Houly Volume
12:00 AM	1:00 AM	127	12:00 AM-1:00 AM	160
1:00 AM	2:00 AM	65	1:00 AM-2:00 AM	80
2:00 AM	3:00 AM	18	2:00 AM-3:00 AM	43
3:00 AM	4:00 AM	24	3:00 AM-4:00 AM	111
4:00 AM	5:00 AM	96	4:00 AM-5:00 AM	401
5:00 AM	6:00 AM	225	5:00 AM-6:00 AM	711
6:00 AM	7:00 AM	209	6:00 AM-7:00 AM	699
7:00 AM	8:00 AM	240	7:00 AM-8:00 AM	655
8:00 AM	9:00 AM	229	8:00 AM-9:00 AM	598
9:00 AM	10:00 AM	276	9:00 AM-10:00 AM	662
10:00 AM	11:00 AM	317	10:00 AM-11:00 AM	763
11:00 AM	12:00 PM	430	11:00 AM-12:00 PM	892
12:00 PM	1:00 PM	453	12:00 PM-1:00 PM	852
1:00 PM	2:00 PM	351	1:00 PM-2:00 PM	773
2:00 PM	3:00 PM	330	2:00 PM-3:00 PM	844
3:00 PM	4:00 PM	640	3:00 PM-4:00 PM	1216
4:00 PM	5:00 PM	655	4:00 PM-5:00 PM	1130
5:00 PM	6:00 PM	520	5:00 PM-6:00 PM	806
6:00 PM	7:00 PM	301	6:00 PM-7:00 PM	490
7:00 PM	8:00 PM	277	7:00 PM-8:00 PM	421
8:00 PM	9:00 PM	289	8:00 PM-9:00 PM	450
9:00 PM	10:00 PM	262	9:00 PM-10:00 PM	437
10:00 PM	11:00 PM		10:00 PM-11:00 PM	563
11:00 PM	12:00 AM	281	11:00 PM-12:00 AM	391
				14148



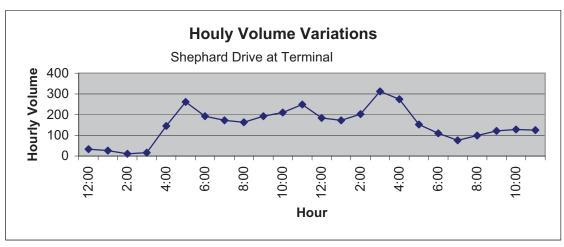
Airport Road EB West of Terminal

From	To	Hour	Houly Volume
12:00 AM	1:00 AM	12:00 AM-1:00 AM	75
1:00 AM	2:00 AM	1:00 AM-2:00 AM	62
2:00 AM	3:00 AM	2:00 AM-3:00 AM	37
3:00 AM	4:00 AM	3:00 AM-4:00 AM	45
4:00 AM	5:00 AM	4:00 AM-5:00 AM	264
5:00 AM	6:00 AM	5:00 AM-6:00 AM	450
6:00 AM	7:00 AM	6:00 AM-7:00 AM	359
7:00 AM	8:00 AM	7:00 AM-8:00 AM	308
8:00 AM	9:00 AM	8:00 AM-9:00 AM	283
9:00 AM	10:00 AM	9:00 AM-10:00 AM	326
10:00 AM	11:00 AM	10:00 AM-11:00 AM	379
11:00 AM	12:00 PM	11:00 AM-12:00 PM	420
12:00 PM	1:00 PM	12:00 PM-1:00 PM	322
1:00 PM	2:00 PM	1:00 PM-2:00 PM	313
2:00 PM	3:00 PM	2:00 PM-3:00 PM	393
3:00 PM	4:00 PM	3:00 PM-4:00 PM	549
4:00 PM	5:00 PM	4:00 PM-5:00 PM	492
5:00 PM	6:00 PM	5:00 PM-6:00 PM	288
6:00 PM	7:00 PM	6:00 PM-7:00 PM	239
7:00 PM	8:00 PM	7:00 PM-8:00 PM	179
8:00 PM	9:00 PM	8:00 PM-9:00 PM	222
9:00 PM	10:00 PM	9:00 PM-10:00 PM	256
10:00 PM	11:00 PM	10:00 PM-11:00 PM	281
11:00 PM	12:00 AM	11:00 PM-12:00 AM	262



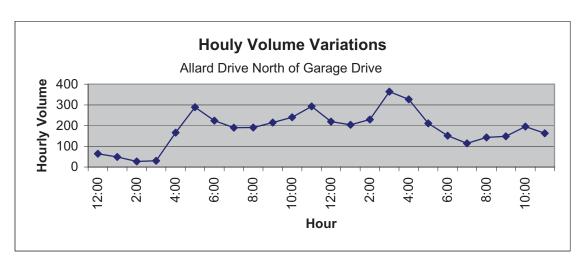
Shephard Drive at Terminal

From	То	Hour	Houly Volume
12:00 AM	1:00 AM	12:00 AM-1:00 AM	33
1:00 AM	2:00 AM	1:00 AM-2:00 AM	26
2:00 AM	3:00 AM	2:00 AM-3:00 AM	11
3:00 AM	4:00 AM	3:00 AM-4:00 AM	16
4:00 AM	5:00 AM	4:00 AM-5:00 AM	145
5:00 AM	6:00 AM	5:00 AM-6:00 AM	261
6:00 AM	7:00 AM	6:00 AM-7:00 AM	192
7:00 AM	8:00 AM	7:00 AM-8:00 AM	172
8:00 AM	9:00 AM	8:00 AM-9:00 AM	163
9:00 AM	10:00 AM	9:00 AM-10:00 AM	192
10:00 AM	11:00 AM	10:00 AM-11:00 AM	210
11:00 AM	12:00 PM	11:00 AM-12:00 PM	249
12:00 PM	1:00 PM	12:00 PM-1:00 PM	184
1:00 PM	2:00 PM	1:00 PM-2:00 PM	172
2:00 PM	3:00 PM	2:00 PM-3:00 PM	202
3:00 PM	4:00 PM	3:00 PM-4:00 PM	312
4:00 PM	5:00 PM	4:00 PM-5:00 PM	274
5:00 PM	6:00 PM	5:00 PM-6:00 PM	152
6:00 PM	7:00 PM	6:00 PM-7:00 PM	110
7:00 PM	8:00 PM	7:00 PM-8:00 PM	76
8:00 PM	9:00 PM	8:00 PM-9:00 PM	99
9:00 PM		9:00 PM-10:00 PM	121
10:00 PM	11:00 PM	10:00 PM-11:00 PM	128
11:00 PM	12:00 AM	11:00 PM-12:00 AM	125



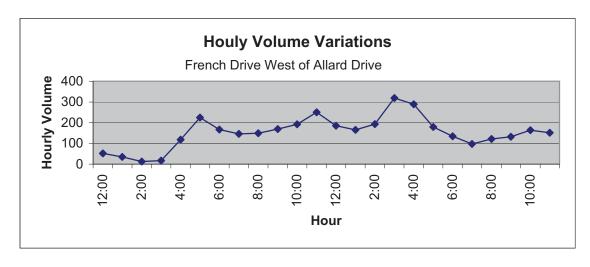
Allard Drive North of Garage Drive

From	То	Hour	Houly Volume
12:00 AM	1:00 AM	12:00 AM-1:00 AM	64
1:00 AM	2:00 AM	1:00 AM-2:00 AM	49
2:00 AM	3:00 AM	2:00 AM-3:00 AM	27
3:00 AM	4:00 AM	3:00 AM-4:00 AM	30
4:00 AM	5:00 AM	4:00 AM-5:00 AM	166
5:00 AM	6:00 AM	5:00 AM-6:00 AM	289
6:00 AM	7:00 AM	6:00 AM-7:00 AM	224
7:00 AM	8:00 AM	7:00 AM-8:00 AM	190
8:00 AM	9:00 AM	8:00 AM-9:00 AM	191
9:00 AM	10:00 AM	9:00 AM-10:00 AM	215
10:00 AM	11:00 AM	10:00 AM-11:00 AM	240
11:00 AM	12:00 PM	11:00 AM-12:00 PM	293
12:00 PM	1:00 PM	12:00 PM-1:00 PM	219
1:00 PM	2:00 PM	1:00 PM-2:00 PM	204
2:00 PM	3:00 PM	2:00 PM-3:00 PM	229
3:00 PM	4:00 PM	3:00 PM-4:00 PM	364
4:00 PM	5:00 PM	4:00 PM-5:00 PM	327
5:00 PM	6:00 PM	5:00 PM-6:00 PM	211
6:00 PM	7:00 PM	6:00 PM-7:00 PM	151
7:00 PM	8:00 PM	7:00 PM-8:00 PM	114
8:00 PM	9:00 PM	8:00 PM-9:00 PM	143
9:00 PM	10:00 PM	9:00 PM-10:00 PM	148
10:00 PM	11:00 PM	10:00 PM-11:00 PM	195
11:00 PM	12:00 AM	11:00 PM-12:00 AM	163



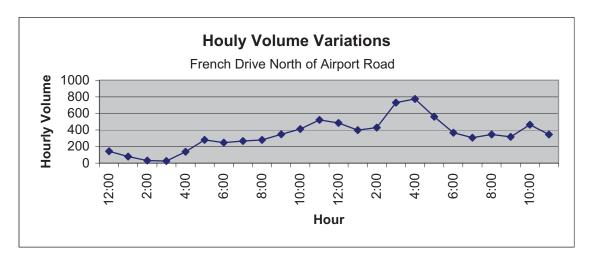
French Drive West of Allard Drive

From	То	Hour	Houly Volume
12:00 AM	1:00 AM	12:00 AM-1:00 AM	52
1:00 AM	2:00 AM	1:00 AM-2:00 AM	35
2:00 AM	3:00 AM	2:00 AM-3:00 AM	12
3:00 AM	4:00 AM	3:00 AM-4:00 AM	17
4:00 AM	5:00 AM	4:00 AM-5:00 AM	118
5:00 AM	6:00 AM	5:00 AM-6:00 AM	225
6:00 AM	7:00 AM	6:00 AM-7:00 AM	167
7:00 AM	8:00 AM	7:00 AM-8:00 AM	146
8:00 AM	9:00 AM	8:00 AM-9:00 AM	149
9:00 AM	10:00 AM	9:00 AM-10:00 AM	169
10:00 AM	11:00 AM	10:00 AM-11:00 AM	192
11:00 AM	12:00 PM	11:00 AM-12:00 PM	250
12:00 PM	1:00 PM	12:00 PM-1:00 PM	185
1:00 PM	2:00 PM	1:00 PM-2:00 PM	165
2:00 PM	3:00 PM	2:00 PM-3:00 PM	193
3:00 PM	4:00 PM	3:00 PM-4:00 PM	319
4:00 PM	5:00 PM	4:00 PM-5:00 PM	289
5:00 PM	6:00 PM	5:00 PM-6:00 PM	179
6:00 PM	7:00 PM	6:00 PM-7:00 PM	134
7:00 PM	8:00 PM	7:00 PM-8:00 PM	97
8:00 PM	9:00 PM	8:00 PM-9:00 PM	121
9:00 PM	10:00 PM	9:00 PM-10:00 PM	132
10:00 PM	11:00 PM	10:00 PM-11:00 PM	164
11:00 PM	12:00 AM	11:00 PM-12:00 AM	151



French Drive North of Airport Road

From	То	Hour	Houly Volume
12:00 AM	1:00 AM	12:00 AM-1:00 AM	143
1:00 AM	2:00 AM	1:00 AM-2:00 AM	79
2:00 AM	3:00 AM	2:00 AM-3:00 AM	31
3:00 AM	4:00 AM	3:00 AM-4:00 AM	25
4:00 AM	5:00 AM	4:00 AM-5:00 AM	138
5:00 AM	6:00 AM	5:00 AM-6:00 AM	279
6:00 AM	7:00 AM	6:00 AM-7:00 AM	247
7:00 AM	8:00 AM	7:00 AM-8:00 AM	266
8:00 AM	9:00 AM	8:00 AM-9:00 AM	280
9:00 AM	10:00 AM	9:00 AM-10:00 AM	348
10:00 AM	11:00 AM	10:00 AM-11:00 AM	412
11:00 AM	12:00 PM	11:00 AM-12:00 PM	521
12:00 PM	1:00 PM	12:00 PM-1:00 PM	484
1:00 PM	2:00 PM	1:00 PM-2:00 PM	397
2:00 PM	3:00 PM	2:00 PM-3:00 PM	429
3:00 PM	4:00 PM	3:00 PM-4:00 PM	730
4:00 PM	5:00 PM	4:00 PM-5:00 PM	775
5:00 PM	6:00 PM	5:00 PM-6:00 PM	560
6:00 PM	7:00 PM	6:00 PM-7:00 PM	366
7:00 PM	8:00 PM	7:00 PM-8:00 PM	306
8:00 PM	9:00 PM	8:00 PM-9:00 PM	346
9:00 PM	10:00 PM	9:00 PM-10:00 PM	316
10:00 PM	11:00 PM	10:00 PM-11:00 PM	463
11:00 PM	12:00 AM	11:00 PM-12:00 AM	345



Appendix F2 Curbfront Dwell Time Collection

Trip Type: ARRIVALS Date: 9/30/2009 Video Time: 1:08:30 Start Time: 3:25 PM End Time: 4:33 PM

	ı	F	Passenger		1	DWELL	ļ	Taxi / Shuttle Van				DWELL	
TRIP					TOTAL	DWELL TIME IN	TDID					TOTAL	DWELL TIME IN
ГҮРЕ	STAR ⁻	T TIME	MIN	SEC	SECONDS	SECOND	TRIP TYPE	STA	RT TIME	MIN	SEC	TOTAL SECONDS	
	In	3:33:29 PM	8	29				In	4:05:45 PM	40	45		
Α	Out	3:34:06 PM	9	6	546		Α	Out	4:06:22 PM	41	22	2482	
	Subtotal	2-24-20 DM		20	F70	37		Subtotal					37
Α	In Out	3:34:30 PM 3:34:50 PM	9 9	30 50			Α	In Out				0	
^	Subtotal	3.34.30 T W	3	30	330	20		Subtotal				U	0
	In	3:34:54 PM	9	54	594			In				0	
Α	Out	3:35:32 PM	10	32	632		Α	Out				0	
	Subtotal					38		Subtotal					0
۸	In Out	3:35:27 PM	10 10	27			Α	In Out				0	
Α	Out Subtotal	3:35:54 PM	10	54	004	27		Subtotal				U	0
	In	3:40:00 PM	15	0	900			In				0	
Α	Out	3:41:00 PM	16	0			Α	Out				0	
	Subtotal					60		Subtotal					0
	In	3:41:00 PM	16	0			١.	ln .				0	
Α	Out	3:47:00 PM	22	0	1320	360	Α	Out Subtotal				0	0
	Subtotal In	3:41:31 PM	16	31	991	360		In				0	
Α	Out	3:44:57 PM	19	57			Α	Out				0	
	Subtotal					206		Subtotal					0
	In	3:43:30 PM	18	30				ln .				0	
Α	Out	3:45:00 PM	20	0	1200		Α	Out				0	
	Subtotal In	3:46:00 PM	21	0	1260	90		Subtotal In				0	0
Α	Out	3:48:00 PM	23	0				Out				0	
	Subtotal	0. 10.00 1		·	1000	120		Subtotal				· ·	0
	In	3:46:00 PM	21	0				In				0	
Α	Out	3:50:00 PM	25	0	1500			Out				0	
	Subtotal	0:47:00 DM	22		4000	240		Subtotal				0	0
Α	In Out	3:47:00 PM 3:47:45 PM	22	0 45				In Out				0	
^	Subtotal	3.47.43 T W	22	43	1303	45		Subtotal				U	0
	In	3:47:55 PM	22	55	1375			In				0	
Α	Out	3:48:47 PM	23	47	1427			Out				0	
	Subtotal					52		Subtotal					0
Α	In Out	3:48:43 PM	23	43				In Out				0	
A	Subtotal	3:49:23 PM	24	23	1463	40		Subtotal				U	0
	In	3:48:51 PM	23	51	1431			In				0	
Α	Out	3:49:31 PM	24	31				Out				0	
	Subtotal					40		Subtotal					0
	In O	3:50:00 PM	25	0				In O				0	
Α	Out Subtotal	3:51:00 PM	26	0	1560	60		Out Subtotal				0	0
	In	3:51:00 PM	26	0	1560	90	 	In				0	U
Α	Out	3:52:00 PM	27	0				Out				0	
	Subtotal					60		Subtotal					0
^	In O	3:51:04 PM	26	4				In O				0	
Α	Out	3:52:15 PM	27	15	1635	71		Out				0	0
	Subtotal In	3:51:13 PM	26	13	1573	/1		Subtotal In				0	
Α	Out	3:51:25 PM	26	25				Out				0	
	Subtotal					12	<u></u>	Subtotal					0
	In	3:51:16 PM	26	16				In				0	
Α	Out	3:58:41 PM	33	41	2021	4		Out				0	
	Subtotal In	3:54:05 PM	29	5	1745	445	<u> </u>	Subtotal In				0	
Α	Out	3:55:37 PM	30	37				Out				0	
	Subtotal	3.00.07 1 171	00	01	1001	92		Subtotal				O	d
	In	3:55:00 PM	30	0	1800			In				0	
Α	Out	3:57:00 PM	32	0	1920			Out				0	
	Subtotal	0.E0.00 D1:	0.1		1000	120	ļ	Subtotal					
Α	In Out	3:56:00 PM 3:59:00 PM	31 34	0				In Out				0	
^	Subtotal	3.38.00 FIVI	34	U	2040	180		Subtotal				U	C
	In	3:56:41 PM	31	41	1901	100		In				0	
Α	Out	3:59:44 PM	34	44				Out				0	

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Trip Type: ARRIVALS Date: 9/30/2009 Video Time: 1:08:30 Start Time: 3:25 PM

	AVERAGE	DWELLING TIME I	PER VEHIC	LE		129	AVERAGE DWELLING TIME PER VEHICLE		37
	TOTAL VEI	HICLES				36	TOTAL VEHICLES		1
	TOTAL DW	ELLING TIME IN S	ECONDS			4642	TOTAL DWELLING TIME IN SECONDS		37
	Subtotal					422	Subtotal		0
Α	Out	4:31:17 PM	66	17	3977		Out	0	
	In	4:24:15 PM	59	15	3555		In	0	
	Subtotal			-		150	Subtotal	-	0
Α	Out	4:18:00 PM	53	0	3180		Out	0	
	In	4:15:30 PM	50	30	3030		In	0	
,,	Subtotal	20.00 1 101	00	J	0000	300	Subtotal	J	0
Α	Out	4:20:00 PM	55	0	3300		Out	0	
	In	4:15:00 PM	50	0	3000	120	In	0	
^	Subtotal	7.17.00 1 W	32	U	3120	120	Subtotal	U	0
Α	in Out	4:15:00 PM 4:17:00 PM	50 52	0	3120		in Out	0	
	Subtotal In	4:15:00 PM	50	0	3000	240	Subtotal In	0	0
Α	Out	4:18:00 PM	53	0	3180	240	Out	0	
۸	In Out	4:14:00 PM	49	0	2940		In Out	0	
	Subtotal	4.44.00 DN:	40		00.40	281	Subtotal		0
Α	Out	4:15:26 PM	50	26	3026		Out	0	_
	In	4:10:45 PM	45	45	2745		ln .	0	
	Subtotal					43	Subtotal		0
Α	Out	4:04:31 PM	39	31	2371		Out	0	
	In	4:03:48 PM	38	48	2328		ln .	0	
	Subtotal					103	Subtotal		0
Α	Out	4:01:33 PM	36	33	2193		Out	0	
	In	3:59:50 PM	34	50	2090		In	0	
	Subtotal					115	Subtotal		C
Α	Out	4:00:42 PM	35	42	2142		Out	0	
	In	3:58:47 PM	33	47	2027		In	0	
	Subtotal					113	Subtotal	-	0
Α	Out	4:00:21 PM	35	21	2121		Out	0	
	In	3:58:28 PM	33	28	2008	120	In	0	
^	Subtotal	J.JJ.J4 I W	J -1	JH	2034	120	Subtotal	U	(
Α	Out	3:57:54 PM 3:59:54 PM	32 34	54 54	2094		in Out	0	
	Subtotal In	3:57:54 PM	32	54	1974	9	Subtotal In	0	(
Α	Out	3:57:59 PM	32	59	1979		Out	0	
۸	In Out	3:57:50 PM	32	50 50	1970		In Out	0	
	Subtotal	2.57.50 DM	20		4070	28	Subtotal		(
Α	Out	3:58:45 PM	33	45	2025		Out	0	
	ln _	3:58:17 PM	32	77	1997		ln -	0	
	Subtotal	0.50.47.514			400=	183	Subtotal		
	Otali illio	. 3.23 1 101							

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Trip Type: ARRIVALS Date: 10/1/2009 Video Time: 0:57:00 Start Time: 9:07 AM End Time: 10:04 AM

		F	Passenger			
						DWELL
TRIP					TOTAL	TIME IN
TYPE	STA	RT TIME	MIN	SEC	SECONDS	SECOND
	In	9:07:00 AM	0	0	0	
Α	Out	9:09:00 AM	2	0	120	
	Subtotal					120
	In	9:41:42 AM	34	42	2082	
Α	Out	9:42:00 AM	35	0	2100	
	Subtotal					18
	In	10:03:13 AM	56	13	3373	
Α	Out	10:03:43 AM	56	43	3403	
	Subtotal					30
	TOTAL DV	VELLING TIME IN	N SECOND	S		168
	TOTAL VE	HICLES				3
	AVERAGE	DWELLING TIM	E PER VEH	HICLE		56

MANCHESTER AIRPORT CURBSIDE DATA COLLECTION

Trip Type: DEPARTURES
Date: 9/30/2009
Video Time Length: 1:08:30
Start Time: 3:25 PM
End Time: 4:33 PM

		1	Passenger			DWELL			Ta	xi / Shuttle	Van		DWELL
TRIP					TOTAL		TRIP					TOTAL	DWELL TIME IN
TYPE		ART TIME	MIN	SEC		SECOND	TYPE		RT TIME	MIN	SEC	SECONDS	SECOND
D	In Out	3:25:00 PM 3:27:32 PM	0 2	0 32	0 152	4.50	D	In Out	3:42:00 PM 3:44:34 PM	17 19	0 34		
	Subtotal	3:25:00 PM	0	0	0	152		Subtotal	3:42:10 PM	17	10	1030	154
D	Out	3:29:26 PM	4	26	266	000	D	Out	3:44:38 PM	19	38		440
	Subtotal In	3:25:00 PM	0	0	0	266		Subtotal In	3:46:22 PM	21	22	1282	148
D	Out	3:26:06 PM	1	6	66		D	Out	3:46:57 PM	21	57	1317	
	Subtotal	0:00:07 PM		07	07	66		Subtotal	0.50.54 DM	07		4074	35
D	In Out	3:26:27 PM 3:27:25 PM	1 2	27 25	87 145		D	In Out	3:52:54 PM 3:53:41 PM	27 28	54 41	1674 1721	
	Subtotal	3.27.23 F W	2	25	145	58		Subtotal	3.33.41 FW	20	41	1721	47
	In	3:26:52 PM	1	52	112			In	3:57:27 PM	32	27	1947	
D	Out	3:33:01 PM	8	1	481		D	Out	3:58:41 PM	33	41	2021	
	Subtotal					369		Subtotal					74
_	In	3:27:23 PM	2	23	143		D	In	4:08:00 PM	43	0		
D	Out	3:27:50 PM	2	50	170	07		Out	4:08:47 PM	43	47	2627	47
	Subtotal In	3:27:55 PM	2	55	175	27	D	Subtotal In	4:12:35 PM	47	35	2855	47
D	Out	3:29:29 PM	4	29	269		, D	Out	4:13:01 PM	48	1	2881	
	Subtotal	0.20.20 T W	7	20	200	94		Subtotal	4.10.011111	-10		2001	26
	In	3:28:09 PM	3	9	189		D	In	4:25:12 PM	60	12	3612	
D	Out	3:31:00 PM	6	0	360			Out	4:26:04 PM	61	4	3664	
	Subtotal					171		Subtotal					52
_	In	3:28:12 PM	3	12	192		_	In	4:28:26 PM	63	26	3806	
D	Out	3:29:10 PM	4	10	250		D	Out	4:28:59 PM	63	59	3839	
	Subtotal	2,20,42 DM	2	12	100	58		Subtotal					33
D	In Out	3:28:12 PM 3:30:12 PM	3 5	12	192 312			In Out				0	
	Subtotal	3.30.12 T W	3	12	312	120		Subtotal				Ü	0
	In	3:29:29 PM	4	29	269			In				0	<u>*</u>
D	Out	3:31:27 PM	6	27	387			Out				0	
	Subtotal					118		Subtotal					0
	In	3:30:02 PM	5	2	302			In				0	
D	Out	3:32:38 PM	7	38	458	4=0		Out				0	
	Subtotal In	2,22,20 DM	7	20	458	156		Subtotal In				0	0
D	Out	3:32:38 PM 3:35:05 PM	10	38 5	456 605			Out				0	
	Subtotal	0.00.00 T W	10	Ū	000	147		Subtotal				Ū	0
	In	3:32:50 PM	7	50	470			In				0	
D	Out	3:35:43 PM	10	43	643			Out				0	
	Subtotal					173		Subtotal					0
_	In .	3:36:07 PM	11	7	667			ln -				0	
D	Out Subtotal	3:36:49 PM	11	49	709	42		Out Subtotal				0	0
	In	3:38:09 PM	13	9	789	44		In				0	
D	Out	3:39:35 PM	14	35	875			Out				0	
	Subtotal					86		Subtotal					0
	In	3:38:44 PM	13	44	824			In				0	
D	Out	3:40:35 PM	15	35	935			Out				0	
	Subtotal	0.00.00.00.0			070	111		Subtotal					0
D	In Out	3:39:33 PM	14	33	873			In Out				0	
D	Out Subtotal	3:49:01 PM	24	1	1441	568		Out Subtotal				0	0
	In	3:40:00 PM	15	0	900			In				0	
D	Out	3:41:00 PM	16	0				Out				0	
	Subtotal					60		Subtotal					0
	In	3:40:35 PM	15	35	935			In				0	
D	Out	3:41:35 PM	16	35	995			Out				0	
	Subtotal	3:41:47 PM	16	47	1007	60		Subtotal				0	0
D	In Out	3:41:47 PM 3:42:32 PM	17	32	1007 1052		Ī	In Out				0	
_	Subtotal	0.42.02 i W	17	52	1002	45		Subtotal				U	0
	In	3:42:00 PM	17	0	1020		1	In				0	
D	Out	3:44:00 PM	19	0				Out				0	
	Subtotal					120		Subtotal					0
_	In	3:43:00 PM	18	0	1080	·		In				0	
D	Out	3:43:30 PM	18	30	1110			Out				0	
	Subtotal In	3:43:02 PM	18	2	1082	30	<u> </u>	Subtotal In				0	0
D	Out	3:43:02 PM 3:44:17 PM	19	17				out				0	
_	Jui	J. → ₹. 17 1 IVI	10	17	1131		I	Jui				U	

MANCHESTER AIRPORT CURBSIDE DATA COLLECTION

Trip Type: DEPARTURES
Date: 9/30/2009
Video Time Length: 1:08:30
Start Time: 3:25 PM
End Time: 4:33 PM

		F	Passenger					Taxi / Shuttle Van					
						DWELL						DWEL	
RIP		DT TIME		050	TOTAL		TRIP	OTA DT TIME		050	TOTAL	TIME I	
YPE	Subtotal	RT TIME	MIN	SEC	SECONDS	SECOND 75	TYPE	START TIME Subtotal	MIN	SEC	SECONDS	SECON	
	In	3:43:15 PM	18	15	1095	75		In			0		
D	Out	3:44:50 PM	19	50	1190			Out			0		
	Subtotal					95		Subtotal					
	In	3:45:09 PM	20	9	1209			In			0		
D	Out	3:45:45 PM	20	45	1245			Out			0		
	Subtotal					36		Subtotal					
_	In	3:45:09 PM	20	9	1209			In .			0		
D	Out	3:45:51 PM	20	51	1251	40		Out			0		
	Subtotal In	3:46:45 PM	21	45	1305	42		Subtotal In			0		
D	Out	3:47:27 PM	22	27				Out			0		
	Subtotal	3.47.27 FW	22	21	1347	42		Subtotal			Ü		
	In	3:47:49 PM	22	49	1369			In			0		
D	Out	3:48:13 PM	23	13				Out			0		
	Subtotal					24		Subtotal					
	In	3:49:38 PM	24	38	1478			In			0		
D	Out	3:51:36 PM	26	36	1596			Out			0		
	Subtotal					118		Subtotal					
_	In _	3:49:45 PM	24	45	1485			ln -			0		
D	Out	3:53:48 PM	28	48	1728			Out			0		
	Subtotal	0:40:50 DM	0.4		4.400	243		Subtotal					
D	In Out	3:49:50 PM 3:50:22 PM	24 25	50 22	1490 1522			In Out			0		
U	Subtotal	3.30.22 FIVI	25	22	1322	32		Subtotal			U		
	In	3:51:16 PM	26	16	1576	- 72		In			0		
D	Out	3:52:31 PM	27	31	1651			Out			0		
	Subtotal	0.02.01111		0.		75		Subtotal			ŭ		
	In	3:52:00 PM	27	0	1620			In			0		
D	Out	3:53:45 PM	28	45	1725			Out			0		
	Subtotal					105		Subtotal					
	In	3:52:00 PM	27	0	1620			In			0		
D	Out	3:54:00 PM	29	0	1740			Out			0		
	Subtotal					120		Subtotal					
_	In .	3:52:04 PM	27	4	1624			In .			0		
D	Out	3:52:50 PM	27	50	1670			Out			0		
	Subtotal	3:52:30 PM	27	30	1650	46		Subtotal In			0		
D	In Out	3:54:25 PM	29	30 25				Out			0		
D	Subtotal	3.34.23 F W	25	23	1703	115		Subtotal			0		
	In	3:53:53 PM	28	53	1733			In			0		
D	Out	3:54:37 PM	29	37	1777			Out			0		
	Subtotal					44		Subtotal					
	In	3:54:00 PM	29	0	1740			In			0		
D	Out	3:55:00 PM	30	0	1800			Out			0		
	Subtotal					60		Subtotal					
_	ln -	3:54:00 PM	29	0	1740			In			0		
D	Out	3:56:00 PM	31	0	1860			Out			0		
	Subtotal	0.55.00 DM	20		4000	120		Subtotal					
_	In Out	3:55:00 PM	30	0	1800			In Out			0		
D	Out Subtotal	3:59:00 PM	34	0	2040	240		Out Subtotal			0		
	In	3:55:27 PM	30	27	1827			In			0		
D	Out	3:55:53 PM	30	53				Out			0		
_	Subtotal	w		50	.000	26		Subtotal			·		
	In	3:58:47 PM	33	47	2027			In			0		
D	Out	4:00:03 PM	35	3				Out			0		
	Subtotal					76		Subtotal					
_	In	3:59:01 PM	34	1	2041			In			0		
D	Out	4:01:27 PM	36	27	2187			Out			0		
	Subtotal	0.50 0: 5:				146		Subtotal					
Ь	In Out	3:59:01 PM	34	1	2041			In Out			0		
D	Out	4:01:33 PM	36	33	2193			Out			0		
	Subtotal In	4:00:00 PM	35	0	2100	152		Subtotal In			0		
D	Out	4:00:00 PM 4:00:45 PM	35	45				Out			0		
_	Subtotal	7.00.43 F W	33	40	2140	45		Subtotal			U		
	Jubiolai		0.5		2100			In			0		
	In	4:()():()() PM	.17	- 0									
D	In Out	4:00:00 PM 4:01:00 PM	35 36	0									
D	In Out Subtotal	4:00:00 PM 4:01:00 PM	36	0		60		Out Subtotal			0		

MANCHESTER AIRPORT CURBSIDE DATA COLLECTION

Trip Type: DEPARTURES
Date: 9/30/2009
Video Time Length: 1:08:30
Start Time: 3:25 PM
End Time: 4:33 PM

	1		Passenger			D14/=::		1	Taxi / Shuttl	le Van	_	· · · · · · · · · · · · · · · ·
בחום					TOTAL	DWELL	TDID			1	TOTAL	DWEL
RIP YPE	ст	A DT TIME	MINI	SEC	TOTAL	TIME IN SECOND	TRIP	START TIME	MIN	SEC	TOTAL	TIME II
D	Out	ART TIME 4:02:00 PM	MIN 37	SEC 0	SECONDS 2220	SECOND	TTPE	Out	IVIIIN	SEC	SECONDS 0	
_	Subtotal	4.02.00 T W	31	U	2220	90		Subtotal			0	
	In	4:00:30 PM	35	30	2130			In			0	
D	Out	4:03:00 PM	38	0	2280			Out			0	
	Subtotal					150		Subtotal				
	In	4:00:15 PM	35	15	2115			In			0	
D	Out	4:02:13 PM	37	13	2233			Out			0	1
	Subtotal					118		Subtotal				
_	In .	4:01:46 PM	36	46	2206			In .			0	
D	Out	4:02:50 PM	37	50	2270	64		Out			0	1
	Subtotal In	4:02:50 PM	37	50	2270	64		Subtotal In			0	
D	Out	4:05:28 PM	40	28	2428			Out			0	
_	Subtotal	4.03.20 T W	40	20	2420	158		Subtotal			0	
	In	4:03:00 PM	38	0	2280	100		In			0	1
D	Out	4:04:00 PM	39	0	2340			Out			0	
	Subtotal					60		Subtotal				
	In	4:04:00 PM	39	0	2340			In			0	
D	Out	4:05:30 PM	40	30	2430			Out			0	1
	Subtotal					90		Subtotal				
	In	4:04:17 PM	39	17	2357			In			0	
D	Out	4:05:26 PM	40	26	2426			Out			0	1
	Subtotal					69		Subtotal				
_	In .	4:04:17 PM	39	17	2357			In .			0	
D	Out	4:05:45 PM	40	45	2445			Out			0	1
	Subtotal In	4:04:25 PM	39	25	2365	88		Subtotal In			0	
D	Out	4:04:25 PM	40	45				Out			0	
D	Subtotal	4.03.43 F W	40	40	2443	80		Subtotal			U	'
	In	4:05:50 PM	40	50	2450			In			0	
D	Out	4:06:22 PM	41	22				Out			0	
_	Subtotal		• • • • • • • • • • • • • • • • • • • •		2.02	32		Subtotal				
	In	4:06:00 PM	41	0	2460			In			0	
D	Out	4:07:45 PM	42	45	2565			Out			0	1
	Subtotal					105		Subtotal				
	In	4:06:29 PM	41	29	2489			In			0	1
D	Out	4:08:10 PM	43	10	2590			Out			0	1
	Subtotal					101		Subtotal				
_	ln -	4:06:30 PM	41	30	2490			In _			0	
D	Out	4:07:10 PM	42	10	2530			Out			0	1
	Subtotal	1 07 10 011		40	2500	40		Subtotal				
_	In Out	4:07:10 PM	42	10	2530			In Out			0	
D	Out	4:08:10 PM	43	10	2590	60		Out Subtotal			0	1
	Subtotal In	4:09:43 PM	44	43	2683	00		In			0	1
D	Out	4:12:09 PM	47	9	2829			Out			0	
D	Subtotal	4.12.03 1 W	7/	3	2023	146		Subtotal			0	
	In	4:11:35 PM	46	35	2795	140		In			0	
D	Out	4:13:29 PM	48	29				Out			0	
	Subtotal					114		Subtotal				
	In	4:12:10 PM	47	10	2830			In			0	
D	Out	4:12:42 PM	47	42				Out			0	
	Subtotal					32		Subtotal				
	In	4:14:04 PM	49	4				In			0	
D	Out	4:25:00 PM	60	0	3600			Out			0	1
	Subtotal					656		Subtotal				
_	In Out	4:14:18 PM	49	18				In Out			0	
D	Out	4:15:55 PM	50	55	3055			Out			0	1
	Subtotal	4.44.07 DI4	10	^-	2007	97		Subtotal			_	1
D	In Out	4:14:27 PM	49 50	27 55	2967			In Out			0	
D	Out Subtotal	4:15:55 PM	50	55	3055	88		Out Subtotal			0	'
	In	4:15:00 PM	50	0	3000	68		In			0	
D	Out	4:16:00 PM	50 51	0				Out			0	
,	Subtotal	7. 10.00 FIVI	31	U	3000	60		Subtotal			U	
	In	4:16:00 PM	51	0	3060	30		In			0	
D	Out	4:17:04 PM	52	4				Out			0	
	Subtotal					64		Subtotal				
	In	4:16:25 PM	51	25	3085			In			0	
D	Out	4:18:19 PM	53	19				Out			0	
	Subtotal					114	1	Subtotal				

MANCHESTER AIRPORT CURBSIDE DATA COLLECTION

Trip Type: DEPARTURES
Date: 9/30/2009
Video Time Length: 1:08:30
Start Time: 3:25 PM
End Time: 4:33 PM

			Passenger				Taxi / Shuttle Van					
חום					TOTAL	DWELL	TOID				TOTAL	DWELL
RIP YPE	START	TIME	MIN	SEC	TOTAL SECONDS		TRIP	START TIME	MIN	SEC	TOTAL SECONDS	TIME IN
IFE	In STAR	4:17:25 PM	52	25	3145	SECOND		In START TIME	IVIIIN	SEC	3ECOND3	SECOND
D	Out	4:18:28 PM	53	28	3208			Out			0	
	Subtotal					63		Subtotal				0
	In	4:17:29 PM	52	29	3149			In			0	
D	Out	4:19:14 PM	54	14	3254			Out			0	
	Subtotal					105		Subtotal				0
_	In .	4:18:00 PM	53	0	3180			In .			0	
D	Out Subtotal	4:18:45 PM	53	45	3225	45		Out Subtotal			0	0
	In	4:19:16 PM	54	16	3256	45		In			0	
D	Out	4:20:04 PM	55	4	3304			Out			0	
	Subtotal		00			48		Subtotal			· ·	0
	In	4:20:30 PM	55	30	3330			In			0	
D	Out	4:22:02 PM	57	2	3422			Out			0	
	Subtotal					92		Subtotal				0
_	In	4:21:47 PM	56	47	3407			ln _			0	
D	Out	4:22:13 PM	57	13	3433			Out			0	_
	Subtotal	4:00:00 DM		20	0.450	26		Subtotal				0
D	In Out	4:22:30 PM 4:29:35 PM	57 64	30 35	3450 3875			In Out			0	
0	Subtotal	4.29.33 FIVI	04	33	3013	425		Subtotal			U	0
	In	4:25:43 PM	60	43	3643	720		In			0	
D	Out	4:27:31 PM	62	31	3751			Out			0	
	Subtotal					108		Subtotal				0
	In	4:25:53 PM	60	53	3653			In			0	
D	Out	4:28:26 PM	63	26	3806			Out			0	
	Subtotal					153		Subtotal				0
_	In	4:26:38 PM	61	38	3698			ln _			0	
D	Out	4:27:36 PM	62	36	3756			Out			0	
	Subtotal In	4:27:46 PM	62	46	3766	58		Subtotal In			0	0
D	Out	4:27:46 PM 4:30:07 PM	62 65	46 7	3907			Out			0	
_	Subtotal	4.30.07 FW	03	,	3907	141		Subtotal			U	0
	In	4:28:05 PM	63	5	3785			In			0	
D	Out	4:30:21 PM	65	21	3921			Out			0	
	Subtotal					136		Subtotal				0
	In	4:29:32 PM	64	32	3872			In			0	
D	Out	4:29:49 PM	64	49	3889			Out			0	
	Subtotal	1000005::			0000	17		Subtotal				0
Ь	In Out	4:30:09 PM	65	9	3909			In Out			0	
D	Out Subtotal	4:31:42 PM	66	42	4002	93		Out Subtotal			0	0
	Juniolai					93		SHUTTLE VANS				U
	TOTAL DWE	LLING TIME I	N SECOND	s		9420		TOTAL DWELLING	TIME IN SECO	NDS		468
										-		
	TOTAL VEHI	CLES				85		TOTAL VEHICLES				8
	AVERAGE D	WELLING TIN	IE PER VEH	HICLE		111		AVERAGE DWELLI	NG TIME PER \	/EHICLE		59
								TAXIS TOTAL DWELLING	TIME IN SECO	NDS		148
								TOTAL VEHICLES				1
								AVERAGE DWELLI	NG TIME PER V	/EHICLE		148

Trip Type: DEPARTURES Date: 10/1/2009 Video Time: 2:05:00 Start Time: 7:04 AM End Time: 9:09 AM

		Passenger						Ta	xi / Shuttle	Van		
TRIP				TOTAL		TRIP					TOTAL	DWELL TIME IN
YPE		MIN	SEC	SECONDS	SECOND	TYPE		RT TIME	MIN	SEC	SECONDS	SECOND
D	In 7:04:00 AN Out 7:04:25 AN Subtotal		0 25	0 25	25	D	In Out Subtotal	7:05:35 AM 7:06:19 AM	1 2	35 19		44
D	In 7:04:02 AM Out 7:04:33 AM		2			D	In Out	7:06:30 AM 7:07:45 AM	2	30 45		
	Subtotal				31		Subtotal					75
D	Out 7:04:45 AM		0 45			D	Out	7:08:41 AM 7:10:58 AM	4 6	41 58	281 418	
_	Subtotal 7:04:00 AM		0		45		Subtotal	7:20:32 AM	16	32		137
D	Out 7:04:50 AM Subtotal		50		50	D	Out Subtotal	7:21:20 AM	17	20		48
D	In 7:04:00 AM Out 7:05:32 AM		0 32			D	In Out	7:22:54 AM 7:24:45 AM	18 20	54 45	1134 1245	
	Subtotal In 7:06:58 AM	Л 2	58	178	92		Subtotal In	7:23:34 AM	19	34	1174	111
D	Out 7:09:07 AM Subtotal	И 5	7	307	129	D	Out Subtotal	7:24:18 AM	20	18	1218	44
D	In 7:07:20 AM Out 7:08:32 AM		20 32	200 272		D	In Out	7:33:21 AM 7:34:17 AM	29 30	21 17	1761 1817	
	Subtotal				72		Subtotal					56
D	In 7:07:23 AM Out 7:08:15 AM		23 15	203 255		D	In Out	7:36:30 AM 7:37:23 AM	32 33	30 23		
	Subtotal In 7:07:29 AM	И 3	29	209	52		Subtotal In	7:38:52 AM	34	52	2092	53
D	Out 7:08:43 AM Subtotal		43	283	74	D	Out Subtotal	7:40:34 AM	36	34		102
_	In 7:09:05 AM		5	305			In	7:39:02 AM	35	2		
D	Out 7:10:20 AM Subtotal		20	380	75	D	Out Subtotal	7:39:58 AM	35	58		56
D	In 7:10:08 AM Out 7:14:13 AM		8 13	368 613		D	In Out	7:50:12 AM 7:51:09 AM	46 47	12 9		
	Subtotal In 7:12:30 AM		30	510	245		Subtotal	7:55:30 AM	51	30		57
D	Out 7:16:45 AM Subtotal		45	765	255	D	Out Subtotal	7:56:47 AM	52	47		77
	In 7:12:55 AM		55	535	200		In	7:56:24 AM	52	24		
D	Out 7:16:50 AM Subtotal	Л 12	50	770	235	D	Out Subtotal	7:57:37 AM	53	37	3217	73
D	In 7:13:50 AM Out 7:17:51 AM		50 51	590 831		D	In Out	7:56:55 AM 7:59:32 AM	52 55	55 32		
	Subtotal				241		Subtotal			50		157
D	In 7:14:35 AM Out 7:19:08 AM		35 8	635 908		D	In Out	7:59:50 AM 8:00:40 AM	55 56	40		_
	Subtotal In 7:15:40 AM	И 11	40	700	273		Subtotal In	8:05:40 AM	61	40	3700	50
D	Out 7:17:31 All Subtotal	И 13	31	811	111	D	Out Subtotal	8:07:13 AM	63	13	3793	93
D	In 7:17:42 AM Out 7:18:41 AM		42 41	822 881		D	In Out	8:07:36 AM 8:09:47 AM	63 65	36 47		
	Subtotal				59		Subtotal					131
D	In 7:17:43 AM Out 7:19:00 AM		43 0	823 900		D	In Out	8:08:00 AM 8:10:00 AM	64 66	0		
	Subtotal In 7:17:54 AM	M 13	54	834	77		Subtotal In	8:10:00 AM	66	0	3960	120
D	Out 7:19:08 AM Subtotal		8		74	D	Out Subtotal	8:11:00 AM	67	0		60
	In 7:18:41 AM		41	881			In	8:10:00 AM	66	0		
D	Out 7:19:13 AM Subtotal		13		32	D	Out Subtotal	8:12:00 AM	68	0		120
D	In 7:19:31 AM Out 7:27:23 AM		31 23	931 1403		D	In Out	8:16:00 AM 8:17:00 AM	72 73	0		
	Subtotal				472		Subtotal					60
D	In 7:24:06 AN Out 7:25:15 AN		6 15		<i>-</i>	D	In Out	8:18:31 AM 8:19:00 AM	74 75	31 0		
	Subtotal In 7:24:15 AM	И 20	15	1215	69		Subtotal In	8:25:02 AM	81	2	4862	29
D	Out 7:27:56 AM Subtotal		56		221	D	Out Subtotal	8:26:13 AM	82	13		71
		Л 20	34	1234			In	8:28:56 AM	84	56	5096	

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Subcloads Section Se			e: 7:04 AM											•
Description Process		Subtotal					95		Subtotal					98
Mathematical Math	_							_						
Description	D		7:27:25 AM	23	25	1405	06	D		8:31:30 AM	87	30	5250	20
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Subtotal Part Par	D							D						
December 19	D		7.30.17 AW	20		1377	94			0.32.13 AW	00	13	3233	18
Description			7·28·43 AM	24	43	1483	34			8:34:02 AM	90	2	5402	
Substitution	D							D						
No. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	_		7.01.27 740			1047	164			0.04.01744	00	01	0401	29
Description			7:28:53 AM	24	53	1493	10-7			8:35:49 AM	91	49	5509	
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Description			7:29:00 AM	25	0	1500				8:45:56 AM	101	56	6116	
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D			7:29:14 AM	25	14	1514				8:53:00 AM	109	0	6540	
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Note Part			7:30:00 AM	26	0	1560				8:56:44 AM	112	44	6764	
Subtotal	D	Out	7:31:00 AM			1620		D	Out			50		
Note							60							66
Declar			7:31:05 AM	27	5	1625				8:59:16 AM	115	16	6916	
Subtotal 1740 174	D	Out	7:31:45 AM	27		1665		D	Out	9:00:10 AM	116	10	6970	
D							40							54
Subtotal		In	7:33:00 AM	29	0	1740			In	9:03:00 AM	119	0	7140	
In	D	Out	7:34:00 AM	30	0	1800		D	Out	9:04:00 AM	120	0	7200	
Decomposition Decompositio		Subtotal					60		Subtotal					60
Subtotal		In	7:34:00 AM	30	0	1800			In				0	
In	D	Out	7:35:00 AM	31	0	1860			Out				0	
December	Subtotal					60		Subtotal					0	
Subtotal		In	7:34:00 AM	30	0	1800			In				0	
In	D	Out	7:36:00 AM	32	0	1920			Out				0	
D		Subtotal					120		Subtotal					0
Subtotal		In	7:35:00 AM	31	0	1860			In				0	
In	D	Out	7:36:00 AM	32	0	1920			Out				0	
D		Subtotal					60		Subtotal					0
Subtotal		In	7:35:49 AM	31	49	1909			In				0	
In	D	Out	7:36:42 AM	32	42	1962			Out				0	
D Out 7.36:30 AM 32 30 1950 Out Subtotal 0 In 7:36:00 AM 32 0 1920 In 0 0 D Out 7:37:00 AM 33 0 1920 In 0 0 Subtotal "*** *** ***		Subtotal					53		Subtotal					0
Subtotal		In	7:36:00 AM	32	0	1920			In				0	
In	D	Out	7:36:30 AM	32	30	1950			Out				0	
D Out 7:37:00 AM 33 0 1980 Out Subtotal 0 In 7:37:26 AM 33 26 2006 In 0 D Out 7:38:17 AM 34 17 2057 Out 0 Subtotal In 7:37:35 AM 33 35 2015 In 0 Out 7:38:26 AM 34 26 2066 Out 0 Subtotal 51 Subtotal 0 0 0 In 7:37:37 AM 33 37 2017 In 0 Subtotal 52 2102 Out 0 0 Subtotal 53 2 2017 In 0 0 In 7:38:00 AM 34 0 2040 In 0 0 Subtotal 74:00 AM 36 0 2160 Out 0 0 In 7:38:11 AM 34 1 <		Subtotal					30		Subtotal					0
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No. 1.0	D		7:38:17 AM	34	17	2057							0	_
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Trip Type: DEPARTURES Date: 10/1/2009 Video Time: 2:05:00 Start Time: 7:04 AM

In		Start Time	e: 7:04 AM							
In	D	Out	7:43:35 AM	39	35	2375		Out	0	1
D		Subtotal					46	Subtotal		0
Subtroal		In	7:43:00 AM	39	0	2340		In	0	
In	D	Out	7:44:00 AM	40	0	2400		Out	0	
D		Subtotal					60	Subtotal		0
Subtotal 1		In	7:43:03 AM	39	3	2343		In	0	
In	D	Out	7:43:41 AM	39	41	2381		Out	0	
D Out 7-43-57 AM 39 57 2397 54 Subtotal In 7-43-56 AM 41 36 2385 In 0 Out 7-43-36 AM 41 36 2385 In 0 Out 7-43-36 AM 41 36 2385 In 0 Out 7-43-36 AM 41 36 23 2499 Subtotal In 7-45-56 AM 41 41 45 2505		Subtotal					38	Subtotal		0
Subtotal 1		In	7:43:03 AM	39	3	2343		In	0	
In	D	Out	7:43:57 AM	39	57	2397		Out	0	
D Out		Subtotal					54	Subtotal		0
Subtotal 111 Subtotal		In	7:43:45 AM	39	45	2385		In	0	
In 7-44-29 AM	D	Out	7:45:36 AM	41	36	2496		Out	0	
D Out		Subtotal					111	Subtotal		0
Subtotal 1		In	7:44:29 AM	40	29	2429		In	0	
In 7-74-54 5 AM 41 45 2505 Not 146 Subtotal	D	Out	7:45:45 AM	41	45	2505		Out	0	
D Out 7-48-11 AM 44 11 2651 146 Subtotal		Subtotal					76	Subtotal		0
Subtotal 146		In	7:45:45 AM	41	45	2505		In	0	
In	D	Out	7:48:11 AM	44	11	2651		Out	0	
D Out		Subtotal					146	Subtotal		0
D Out		In	7:47:00 AM	43	0	2580		In	0	
Subtotal 120	D							Out	0	
In							120			0
D Out 7.48.40 AM 44 40 2680 41 Subtotal In 7.4900 AM 45 0 2700 In 0 Subtotal 7.7500 AM 46 0 2760 Out 0 In 7.4952 AM 45 52 2752 In 0 D Out 7.5436 AM 50 36 3036 Out 0 Subtotal 1 284 Subtotal 0 0 In 7.5134 AM 47 34 2854 In 0 Subtotal 1 19 Subtotal 0 0 In 7.5450 AM 50 30 3003 Out 0 Subtotal 1 10 7.54500 AM 50 30 3000 Out 0 Subtotal 1 10 7.5500 AM 50 30 3000 In 0 In 7.5500 AM 53 30 3180 <td< td=""><td></td><td>In</td><td>7:47:59 AM</td><td>43</td><td>59</td><td>2639</td><td></td><td>In</td><td>0</td><td></td></td<>		In	7:47:59 AM	43	59	2639		In	0	
Subtotal	D	Out	7:48:40 AM	44		2680		Out	0	
In							41			0
D Out Subtotal 75.00 AM 46 0 2760 Out Subtotal In In 74.95 2AM 45 52 2752 In Out 754:36 AM 50 36 3036 Out 0 0 Subtotal 754:36 AM 50 53 3053 Out 0 0 0 D Out 754:53 AM 50 53 3053 Out 0 0 0 Subtotal 198 Subtotal 198 Subtotal 0 0 In 754:50 AM 50 30 3000 Out 0 0 0 Subtotal 30 3000 Out 0 0 0 0 D Out 756:00 AM 52 0 3120 Out 0 0 0 Subtotal 10 1757:00 AM 53 0 3120 Out 0 0 Subtotal 759:00 AM 56 0 3300 In 0 0 0 D Out 756:00 AM 56 0 3300 In 0 0 0 <t< td=""><td></td><td></td><td>7:49:00 AM</td><td>45</td><td>0</td><td>2700</td><td></td><td></td><td>0</td><td></td></t<>			7:49:00 AM	45	0	2700			0	
Subtotal	D									
D Out 7:54:36 AM 50 36 3036 284 Subtotal	Subtotal					60	Subtotal		0	
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In	D	Out	7:54:36 AM	50	36	3036			0	
D Out Subtotal T-54-53 AM S0 S3 S053 Subtotal Subto		Subtotal					284	Subtotal		0
Subtotal		In	7:51:34 AM	47	34	2854		In	0	
In	D	Out	7:54:53 AM	50	53	3053		Out	0	
D		Subtotal					199	Subtotal		0
Subtotal	In	7:54:00 AM	50	0	3000		In	0		
In	D		7:54:30 AM	50	30	3030			0	
DOUT 7:56:00 AM 52 0 3120 Qut Subtotal In 7:57:00 AM 53 0 3180 In 0							30			0
Subtotal	_									
In	D		7:56:00 AM	52	0	3120			0	
DOUT 7:57:30 AM 53 30 3210 Out 0 In 7:59:00 AM 55 0 3300 In 0 D Out 8:00:00 AM 56 0 3360 Out 0 Subtotal 60 Subtotal 55 8 3308 In 0 D Out 8:00:36 AM 55 8 3396 Out 0 Subtotal 88 Subtotal 0 0 In 8:00:00 AM 56 0 3380 In 0 Subtotal 88 Subtotal 0 0 0 0 In 8:00:00 AM 56 0 3380 In 0 0 Subtotal 70 3420 Out 0ut 0 0 In 8:00:10 AM 57 0 3420 In 0 0 Subtotal 10 349 349 349 349 0ut <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>120</td><td></td><td></td><td>0</td></t<>							120			0
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D			7.50.00 ***			0000	30			0
Subtotal	_									
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Subtotal Response	_									
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In 8:06:00 AM 62 0 3720 In 0 D Out 8:07:00 AM 63 0 3780 Out 0							95		-	0
D Out 8:07:00 AM 63 0 3780 Out 0			8:06:00 AM	62	0	3720			0	一
	D									
		Subtotal					60	Subtotal		0

Trip Type: DEPARTURES Date: 10/1/2009 Video Time: 2:05:00 Start Time: 7:04 AM

		e: 7:04 AM						
_	In _	8:09:06 AM	65	6	3906		In	0
D	Out	8:10:10 AM	66	10	3970		Out	0
	Subtotal	0:00:04 AM	05	04	2004	64	Subtotal	0
_	In .	8:09:21 AM	65	21	3921		In .	0
D	Out	8:10:22 AM	66	22	3982	64	Out	0
	Subtotal	0.40.54 AM	66	F.4	4014	61	Subtotal	0
D	In Out	8:10:54 AM	66	54			In Out	
D	Out Subtotal	8:15:20 AM	71	20	4280	266	Subtotal	0 0
	In	8:14:00 AM	70	0	4200	200	In	0
D	Out	8:18:00 AM	70 74	0	4440		Out	0
D	Subtotal	0.10.00 AW	74	U	4440	240	Subtotal	0
	In	8:14:42 AM	70	42	4242	240	In	0
D	Out	8:15:29 AM	71	29	4289		Out	0
_	Subtotal	0.10.207111		20	4200	47	Subtotal	0
	In	8:15:00 AM	71	0	4260		In	0
D	Out	8:17:00 AM	73	0	4380		Out	0
	Subtotal					120	Subtotal	0
	In	8:15:19 AM	71	19	4279		In	0
D	Out	8:23:03 AM	79	3	4743		Out	0
	Subtotal					464	Subtotal	0
	In	8:16:33 AM	72	33	4353		In	0
D	Out	8:17:02 AM	73	2	4382		Out	0
	Subtotal					29	Subtotal	0
	In	8:17:02 AM	73	2	4382		In	0
D	Out	8:18:31 AM	74	31	4471		Out	0
	Subtotal					89	Subtotal	0
	In	8:18:31 AM	74	31	4471		In	0
D	Out	8:19:00 AM	75	0	4500		Out	0
	Subtotal					29	Subtotal	0
_	ln -	8:18:48 AM	74	48	4488		In	0
D	Out	8:21:07 AM	77	7	4627		Out	0
	Subtotal					139	Subtotal	0
_	In Out	8:18:48 AM	74	48	4488		In Out	0
D	Out	8:22:25 AM	78	25	4705	047	Out	0
	Subtotal	0.20.44 AM	76	44	4574	217	Subtotal	0
D	In Out	8:20:11 AM	76 77	11	4571 4656		In Out	0
D	Subtotal	8:21:36 AM	11	36	4000	0.5	Out	
	In	8:20:21 AM	76	21	4581	85	Subtotal In	0
D	Out	8:21:19 AM	77	19	4639		Out	0
_	Subtotal	0.21.10744		10	4000	58	Subtotal	0
	In	8:20:54 AM	76	54	4614		In	0
D	Out	8:23:03 AM	79	3	4743		Out	0
	Subtotal					129	Subtotal	0
	In	8:23:00 AM	79	0	4740		In	0
D	Out	8:25:00 AM	81	0	4860		Out	0
	Subtotal					120	Subtotal	0
	In	8:23:00 AM	79	0	4740		In	0
D	Out	8:26:00 AM	82	0	4920		Out	0
	Subtotal					180	Subtotal	0
	In	8:23:00 AM	79	0	4740		In	0
D	Out	8:28:00 AM	84	0	5040		Out	0
	Subtotal					300	Subtotal	0
	In	8:24:45 AM	80	45	4845		In .	0
D	Out	8:28:11 AM	84	11	5051	_ [Out	0
	Subtotal					206	Subtotal	0
_	In .	8:25:07 AM	81	7	4867		In .	0
D	Out	8:26:59 AM	82	59	4979	, , ,	Out	0
	Subtotal	0.05.10.11		1.0	4070	112	Subtotal	0
_	In .	8:25:16 AM	81	16	4876		In .	0
D	Out	8:26:59 AM	82	59	4979	, , ,	Out	0
	Subtotal	0.05.00 444	0.4	20	4000	103	Subtotal	0
Р	In Out	8:25:32 AM	81	32	4892		In Out	0
D	Out	8:26:21 AM	82	21	4941	40	Out	0
	Subtotal In	8:27:20 AM	83	20	5000	49	Subtotal In	0
D	Out	8:28:40 AM	84	40	5080		Out	0
٦	Subtotal	0.20.40 AIVI	04	40	5000	80	Subtotal	0
	In	8:28:00 AM	84	0	5040	00	In	0
D	Out	8:30:00 AM	86	0	5160		Out	0
-	Subtotal	2.20.00 / 1111		,	3.00	120	Subtotal	0
	In	8:28:06 AM	84	6	5046	0	In	0
D	Out	8:31:14 AM	87	14	5234		Out	0
	Subtotal				··	188	Subtotal	0
	In	8:28:29 AM	84	29	5069		In	0
_	Out	8:34:25 AM	90	25	5425		Out	0
D								

	Start Time	e: 7:04 AM				1		
	Subtotal	0.01.00 ***	^-		F00°	356	Subtotal	
	In .	8:31:00 AM	87	0	5220		In .	0
)	Out	8:33:00 AM	89	0	5340	400	Out	0
	Subtotal					120	Subtotal	
	In .	8:31:00 AM	87	0	5220		In .	0
)	Out	8:33:00 AM	89	0	5340		Out	0
	Subtotal					120	Subtotal	
	In	8:31:30 AM	87	30	5250		In	0
)	Out	8:33:02 AM	89	2	5342		Out	0
	Subtotal					92	Subtotal	
	In	8:34:25 AM	90	25	5425		In	0
)	Out	8:35:36 AM	91	36	5496		Out	0
	Subtotal					71	Subtotal	
	In	8:34:50 AM	90	50	5450		In	0
)	Out	8:35:18 AM	91	18	5478		Out	0
	Subtotal	0.55.10 AW	31	10	3470	28	Subtotal	O .
	In	0.25.00 AM	91	0	F400	20	In	0
		8:35:00 AM			5460			
)	Out	8:36:00 AM	92	0	5520		Out	0
	Subtotal					60	Subtotal	
	ln -	8:35:28 AM	91	28	5488		ln -	0
)	Out	8:36:53 AM	92	53	5573		Out	0
	Subtotal					85	Subtotal	
	In	8:36:00 AM	92	0	5520		In	0
)	Out	8:38:00 AM	94	0	5640		Out	0
	Subtotal					120	Subtotal	
	In	8:36:33 AM	92	33	5553		In	0
)	Out	8:37:47 AM	93	47	5627		Out	0
	Subtotal		30	••		74	Subtotal	•
	In	8:38:17 AM	94	17	5657		In	0
)	Out	8:40:09 AM	96	9	5769		Out	0
•	Subtotal	0.40.03 AW	30	9	3709	440		O .
		0.00.00.414	0.1		5000	112	Subtotal	
	ln -	8:38:26 AM	94	26	5666		ln -	0
)	Out	8:41:50 AM	97	50	5870		Out	0
	Subtotal					204	Subtotal	
	In	8:38:42 AM	94	42	5682		In	0
)	Out	8:40:50 AM	96	50	5810		Out	0
	Subtotal					128	Subtotal	
	In	8:38:42 AM	94	42	5682		In	0
)	Out	8:41:12 AM	97	12	5832		Out	0
•	Subtotal	0.41.12 AW	31	12	3032	150	Subtotal	O .
		8:41:35 AM	97	35	5855	130	In	0
	In Out							
)	Out	8:43:14 AM	99	14	5954		Out	0
	Subtotal					99	Subtotal	
	In	8:42:33 AM	98	33	5913		In	0
)	Out	8:46:05 AM	102	5	6125		Out	0
	Subtotal					212	Subtotal	
	In	8:42:45 AM	98	45	5925		In	0
)	Out	8:44:19 AM	100	19	6019		Out	0
	Subtotal					94	Subtotal	
	In	8:43:35 AM	99	35	5975		In	0
)	Out	8:44:47 AM	100	47	6047		Out	0
	Subtotal	O. T.T. AIVI	100	71	JU-1	72	Subtotal	U
		0.44.07 444	100	7	6007	12		^
	In Out	8:44:07 AM	100	7	6007		In	0
)	Out	8:45:31 AM	101	31	6091		Out	0
	Subtotal					84	Subtotal	
	In	8:44:12 AM	100	12	6012		In	0
)	Out	8:45:09 AM	101	9	6069		Out	0
	Subtotal					57	Subtotal	
	In	8:45:00 AM	101	0	6060		In	0
)	Out	8:47:00 AM	103	0	6180		Out	0
	Subtotal	2	. 30	•	00	120	Subtotal	· ·
	In	8:46:00 AM	102	0	6120		In	0
)	Out	8:50:00 AM	102	0	6360		Out	0
•		0.30.00 AIVI	100	U	0300	240		U
	Subtotal	0.40.00 444	400		0400	240	Subtotal	
	In Out	8:46:00 AM	102	0	6120		In	0
)	Out	8:47:00 AM	103	0	6180		Out	0
	Subtotal					60	Subtotal	
	I.e.	8:46:45 AM	102	45	6165		In	0
	In	8:47:24 AM	103	24	6204		Out	0
)	in Out					39	Subtotal	
)	Out				6180		In	0
)	Out Subtotal	8:47:00 AM	103	()				•
	Out Subtotal In	8:47:00 AM 8:48:00 AM	103 104	0			Out	n
)	Out Subtotal In Out	8:47:00 AM 8:48:00 AM	103 104	0	6240	60	Out	0
	Out Subtotal In Out Subtotal	8:48:00 AM	104	0	6240	60	Subtotal	
)	Out Subtotal In Out Subtotal In	8:48:00 AM 8:47:13 AM	104	13	6240	60	Subtotal In	0
	Out Subtotal In Out Subtotal	8:48:00 AM	104	0	6240	60	Subtotal	

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Trip Type: DEPARTURES Date: 10/1/2009 Video Time: 2:05:00 Start Time: 7:04 AM

D Out S-489-14 AM 104 41 6281 7 Subtotal 0		Start Time	: 7:04 AM							
Subtotal No. No. Subtotal No. No. Subtotal No. No.	D			104	41	6281	1	Out	0	1
In							73			0
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Subtotal 104 45 6285 In	D									
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Subtotal 10	_									
In	D		8:49:18 AM	105	18	6318			0	
D Out 8.5159 AM 107 50 6470 121 Subtotal		Subtotal					33	Subtotal		0
Subtotal		In	8:49:49 AM	105	49	6349		In	0	
Subbotal 121 Subbotal 121 Subbotal 121 Subbotal 121 Subbotal 121 Subbotal 122 Subb	D	Out	8:51:50 AM	107	50	6470		Out	0	
In		Subtotal					121	Subtotal		0
D Out 8.55.55 AM 111 55 6715 366 Subtotal			8-49-49 AM	105	49	6349			0	Ť
Subtotal D										
In			0.33.33 AW	111	33	0713	200		0	_
D Out 8-50.30 AM 106 30 6390 30 Subtotal 0							366			0
Subtotal _										
In	D		8:50:30 AM	106	30	6390			0	
D Out 8-51-00 AM 107 0 6420 0 0 0 0 0 0 0 0 0		Subtotal					30	Subtotal		0
Subtotal	In	8:50:00 AM	106	0	6360		In	0		
Subtotal Subtotal In Signature Subtotal In O Out Signature Subtotal Out Signature Out Out Signature Out	D	Out	8:51:00 AM	107	0	6420		Out	0	
In		Subtotal					60	Subtotal		0
D Out			8:50:00 AM	106	n	6360			0	Ť
Subtotal Subtotal Subtotal Name	Р									
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Subtotal Subtotal Sep Subtotal In	_									
In	D		8:51:19 AM	107	19	6439	1		0	1
D Out 8:52:31 AM 108 31 6511 71 Subtotal							59			0
D Out 8:52:31 AM 108 31 6511 71 Subtotal		In	8:51:20 AM	107	20	6440		In	0	
Subtotal 10	D	Out		108				Out		
In				-			71		-	0
D Out			8:51:20 AM	107	20	6440			0	Ť
Subtotal Subtotal Subtotal In 0 0 0 0 0 0 0 0 0	D									
In	ט		0.33.34 AIVI	109	34	03/4	404		U	_
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In	D		8:54:00 AM	110	0	6600			0	
D Out		Subtotal					120	Subtotal		0
D Out		In	8:52:51 AM	108	51	6531		In	0	
Subtotal	D									
In				_	-		189		-	0
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Subtotal 120	Р									J
In	D		IVIA UU.0C.0	112	U	0/20			U	اء
D							120		-	0
Subtotal Subtotal Subtotal In Subtotal In Subtotal In Subtotal In Subtotal	_									
In	D		8:55:42 AM	111	42	6702			0	
In		Subtotal					31	Subtotal		0
D Out		In	8:57:01 AM	113	1	6781		In	0	
Subtotal	D									
In				•			78		-	0
D Out			8-58-00 AM	11/	^	6840	,,,		0	-
Subtotal Subtotal In 9:00:01 AM 116 1 6961 In 0 0 0 0 0 0 0 0 0	Р									
In	U		9.03.04 AIVI	119	4	1144			U	ا _
D Out							304		-	0
Subtotal Subtotal In 9:01:55 AM 117 55 7075 In 0 0 0 0 0 0 0 0 0										J
In	D	Out	9:09:28 AM	125	28	7528			0	
In		Subtotal					567	Subtotal		0
D Out 9:06:06 AM 122 6 7326 Subtotal Su			9:01:55 AM	117	55	7075			0	
Subtotal Subtotal Subtotal In Si02:00 AM 118 O 7080 In O Out Subtotal Subtotal In O Out Subtotal Out Subtotal Out Subtotal Out O	D									J
In				_	-		251		-	0
D Out 9:03:00 AM 119 0 7140 60 Subtotal			0.U3.UU VW	112	^	7090	201		0	-
Subtotal Subtotal Subtotal In Si02:00 AM 118 O 7080 In Out Subtotal In Subtotal Subtotal In Out Subtotal In Out Subtotal In Out	ь									
In	U		9:03:00 AM	119	U	7 140			U	اہ
D Out 9:04:00 AM 120 0 7200 120 Subtotal							60		-	0
Subtotal 120 Subtotal										
In	D		9:04:00 AM	120	0	7200		Out	0	
In		Subtotal					120	Subtotal		0
D Out 9:07:21 AM 123 21 7401 Out Subtotal Subtotal Subtotal Out	In	9:03:40 AM	119	40	7180		In	0		
Subtotal Subtotal Subtotal Subtotal In 9:03:47 AM 119 47 7187 In 0 Out 9:04:39 AM 120 39 7239 Out 0 Subtotal Subto	D									
In 9:03:47 AM 119 47 7187 In 0 Out 9:04:39 AM 120 39 7239 Subtotal 52 Subtotal							221		ű	0
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Subtotal Р									J	
In 9:05:25 AM 121 25 7285 In 0 0 0 0 0 0 0 0 0	D		9:04:39 AIVI	120	39	1239			U	اء
D Out 9:09:28 AM 125 28 7528 Out Subtotal Subtotal In 9:07:00 AM 123 0 7380 In 0 Out 9:09:00 AM 125 0 7500 Out 0 Out Subtotal In 9:07:56 AM 123 56 7436 In 0 Out 9:09:12 AM 125 12 7512 Out						52		-	0	
Subtotal In 9:07:00 AM 123 0 7380 In 0 D Out 9:09:00 AM 125 0 7500 Out 0 Subtotal 120 Subtotal Subtotal In 9:07:56 AM 123 56 7436 In 0 D Out 9:09:12 AM 125 12 7512 Out Out										J
Subtotal In 9:07:00 AM 123 0 7380 In 0 D Out 9:09:00 AM 125 0 7500 Out 0 Subtotal 120 Subtotal In 9:07:56 AM 123 56 7436 In 0 D Out 9:09:12 AM 125 12 7512 Out Out	D		9:09:28 AM	125	28	7528		Out	0	
In 9:07:00 AM 123 0 7380 In 0 0 0 0 0 0 0 0 0		Subtotal					243	Subtotal		0
D Out 9:09:00 AM 125 0 7500 Out 0 Subtotal In 9:07:56 AM 123 56 7436 In 0 D Out 9:09:12 AM 125 12 7512 Out 0		In	9:07:00 AM	123	0	7380			0	
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In 9:07:56 AM 123 56 7436 In 0 D Out 9:09:12 AM 125 12 7512 Out 0	-		5.55.55 AW	120	5	. 555	120		v	0
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	_									
Subtotal 76 Subtotal	ט		9:09:12 AM	125	12	7512			0	
		Subtotal					76	Subtotal		0

Trip Type: DEPARTURES Date: 10/1/2009 Video Time: 2:05:00 Start Time: 7:04 AM

	Start Hilli	5. 7.04 AW						
	In	9:08:53 AM	124	53	7493		In	0
D	Out	9:09:48 AM	125	48	7548		Out	0
	Subtotal					55	Subtotal	0
							SHUTTLE VANS	
	TOTAL DV	VELLING TIME IN	SECONDS			18007	TOTAL DWELLING TIME IN SECONDS	2101
	TOTAL VE	HICLES				153	TOTAL VEHICLES	31
	AVERAGE	DWELLING TIME	PER VEHIC	CLE		118	AVERAGE DWELLING TIME PER VEHICLE	68
							TAXIS TOTAL DWELLING TIME IN SECONDS	231
							TOTAL VEHICLES	2
							AVERAGE DWELLING TIME PER VEHICLE	116

Trip Type: DEPARTURES Date: 10/1/2009 Video Time: 0:54:44 Start Time: 9:10 AM End Time: 10:04 AM

	1		Passenger	-	1	D14/=::			Ta	ki / Shuttle \	/an		DWE:
ΓRIP					TOTAL	DWELL TIME IN	TRIP					TOTAL	DWELL TIME IN
YPE	QTA D	T TIME	MIN	SEC	SECONDS	SECOND	TYPE	QT/	ART TIME	MIN	SEC		SECOND
1112	In STAR	9:11:42 AM	1	42	102	SECOND	TIFE	In	9:10:58 AM	0	58	58	SECOND
D	Out	9:13:43 AM	3	43	223		D	Out	9:12:33 AM	2	33	153	
_	Subtotal	5 5. -1 0 / (IVI	3	-10	220	121	-	Subtotal	5 <u>2.00</u> / IIVI	-	33	100	98
	In	9:13:57 AM	3	57	237			In	9:13:17 AM	3	17	197	
D	Out	9:15:50 AM	5	50	350		D	Out	9:15:40 AM	5	40	340	
	Subtotal					113		Subtotal					143
	In	9:14:00 AM	4	0	240			In	9:21:11 AM	11	11	671	
D	Out	9:16:00 AM	6	0	360		D	Out	9:22:25 AM	12	25	745	
	Subtotal					120		Subtotal					74
	In	9:14:02 AM	4	2	242			In	9:24:00 AM	14	0	840	
D	Out	9:15:08 AM	5	8	308		D	Out	9:24:30 AM	14	30	870	
	Subtotal					66		Subtotal					30
	In	9:14:28 AM	4	28	268			In	9:25:41 AM	15	41	941	
D	Out	9:17:41 AM	7	41	461		D	Out	9:26:29 AM	16	29	989	
	Subtotal					193		Subtotal					48
	In	9:16:00 AM	6	0	360			In	9:33:37 AM	23	37	1417	
D	Out	9:17:00 AM	7	0	420		D	Out	9:33:53 AM	23	53	1433	
	Subtotal					60		Subtotal					16
	In	9:16:00 AM	6	0	360			In	9:34:20 AM	24	20	1460	
D	Out	9:19:00 AM	9	0	540		D	Out	9:34:46 AM	24	46		
	Subtotal		-	·	2.70	180		Subtotal			.0		26
	In	9:16:20 AM	6	20	380	.50		In	9:39:39 AM	29	39	1779	
D	Out	9:17:58 AM	7	58	478		D	Out	9:41:35 AM	31	35	1895	
_	Subtotal	555 / NV	,	50	470	98		Subtotal	J	0.	33	1000	116
	In	9:20:00 AM	10	0	600	- 30		In	9:43:33 AM	33	33	2013	
D	Out	9:20:30 AM	10	30	630		D	Out	9:44:25 AM	34	25		
-	Subtotal	5.25.55 AW	10	30	000	30		Subtotal	5. H.25 AW	J-7	20	2000	52
	In	9:21:00 AM	11	0	660	30		In	9:52:18 AM	42	18	2538	- 32
D	Out	9:21:30 AM	11	30	690		D	Out	9:52:33 AM	42	33	2553	
٦	Subtotal	5.2 1.50 AIVI	- 11	30	090	30		Subtotal	0.02.00 AIVI	44	33	2000	15
	In	9:22:45 AM	12	45	765	30		In	9:55:56 AM	45	56	2756	- 1,
D	Out	9:22:45 AM	13	15	765 795		D	Out	9:57:05 AM	45	5		
D		9.23. 13 AW	13	13	795	20			9.57.05 AW	47	5	2023	
	Subtotal	0.00.56 AM	10	FC	776	30		Subtotal	0.50.00 AM	40		2760	69
_	In .	9:22:56 AM	12	56	776		_	In .	9:56:00 AM	46	0		
D	Out	9:25:29 AM	15	29	929	4=0	D	Out	9:56:48 AM	46	48	2808	
	Subtotal	0.04.50.414			200	153		Subtotal	0.50.40.414		- 10	2000	48
_	ln .	9:24:50 AM	14	50	890		_	In	9:58:48 AM	48	48	2928	
D	Out	9:25:30 AM	15	30	930		D	Out	10:00:00 AM	50	0	3000	
	Subtotal					40		Subtotal					72
_	In .	9:25:07 AM	15	7	907		_	In	10:02:50 AM	52	50	3170	
D	Out	9:25:23 AM	15	23	923		D	Out	10:04:44 AM	54	44	3284	
	Subtotal					16		Subtotal					114
_	ln -	9:25:55 AM	15	55	955			ln -	10:03:08 AM	53	8	3188	
D	Out	9:26:29 AM	16	29	989			Out	10:04:44 AM	54	44	3284	
	Subtotal					34		Subtotal					96
_	ln _	9:26:01 AM	16	1	961			ln -	10:04:05 AM	54	5	3245	
D	Out	9:27:21 AM	17	21	1041			Out	10:04:44 AM	54	44	3284	
	Subtotal					80		Subtotal					39
_	In	9:26:11 AM	16	11	971			In				0	
D	Out	9:28:59 AM	18	59	1139			Out				0	
	Subtotal					168		Subtotal					(
	In	9:26:22 AM	16	22	982			In				0	
D	Out	9:26:29 AM	16	29	989			Out				0	
	Subtotal					7		Subtotal					
	In	9:26:29 AM	16	29				In				0	
D	Out	9:27:46 AM	17	46	1066			Out				0	
	Subtotal					77		Subtotal					(
	In	9:27:00 AM	17	0	1020			In				0	
D	Out	9:29:00 AM	19	0	1140			Out				0	
	Subtotal					120		Subtotal					(
	In	9:27:02 AM	17	2	1022			In				0	
D	Out	9:30:30 AM	20	30	1230			Out				0	
	Subtotal					208		Subtotal					(
	In	9:28:15 AM	18	15	1095			In				0	
D	Out	9:29:25 AM	19	25				Out				0	
	Subtotal					70		Subtotal					(
	In	9:29:10 AM	19	10	1150			In				0	
D	Out	9:31:56 AM	21	56	1316			Out				0	
	Subtotal					166		Subtotal				Ü	0
	In	9:29:33 AM	19	33	1173			In				0	•
D	Out	9:32:29 AM	22	29	1349			Out				0	
_	J 4.	0.02.20 / NVI		20	10-70		1					U	

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		e: 9:10 AM				1		
	Subtotal					176	Subtotal	
_	In	9:30:09 AM	20	9	1209		In	0
)	Out	9:31:18 AM	21	18	1278		Out	0
	Subtotal					69	Subtotal	
	In	9:30:40 AM	20	40	1240		In	0
)	Out	9:36:22 AM	26	22	1582		Out	0
	Subtotal					342	Subtotal	
	In	9:31:56 AM	21	56	1316		In	0
•	Out	9:38:15 AM	28	15	1695		Out	0
	Subtotal					379	Subtotal	•
	In	9:33:04 AM	23	4	1384	3/3	In	0
,				4				
'	Out	9:34:04 AM	24	4	1444		Out	0
	Subtotal					60	Subtotal	
	In	9:34:04 AM	24	4	1444		In	0
	Out	9:35:53 AM	25	53	1553		Out	0
	Subtotal					109	Subtotal	
	In	9:35:46 AM	25	46	1546		In	0
	Out	9:41:43 AM	31	43	1903		Out	0
	Subtotal	0	٥.		.000	357	Subtotal	Ç
	In	9:35:53 AM	25	53	1553	337	In	0
	Out	9:36:31 AM	26	31	1591		Out	0
	Subtotal					38	Subtotal	
	In	9:39:31 AM	29	31	1771		In	0
	Out	9:40:39 AM	30	39	1839		Out	0
	Subtotal					68	Subtotal	
	In	9:39:36 AM	29	36	1776		In	0
	Out	9:41:21 AM	31	21	1881		Out	0
		J.TI.ZI AIVI	31	۷.	1001	40F		U
	Subtotal	0.00.50 444	00		4700	105	Subtotal	
	In .	9:39:59 AM	29	59	1799		In .	0
	Out	9:44:18 AM	34	18	2058		Out	0
_	Subtotal					259	Subtotal	
	In	9:40:13 AM	30	13	1813		In	0
	Out	9:42:40 AM	32	40	1960		Out	0
	Subtotal					147	Subtotal	
	In	9:42:15 AM	32	15	1935		In	0
	Out	9:44:07 AM	34	7	2047		Out	0
		3.44.07 AIVI	34	,	2047	440		0
	Subtotal					112	Subtotal	
	In	9:43:14 AM	33	14	1994		In	0
	Out	9:46:18 AM	36	18	2178		Out	0
	Subtotal					184	Subtotal	
	In	9:45:33 AM	35	33	2133		In	0
	Out	9:45:54 AM	35	54	2154		Out	0
	Subtotal					21	Subtotal	
	In	9:46:11 AM	36	11	2171		In	0
,	Out	9:46:40 AM	36	40	2200		Out	0
		3.40.40 AW	30	40	2200	20		O O
	Subtotal					29	Subtotal	
	ln .	9:46:27 AM	36	27	2187		ln -	0
	Out	9:46:45 AM	36	45	2205		Out	0
_	Subtotal					18	Subtotal	
_	In	9:46:27 AM	36	27	2187		In	0
	Out	9:47:27 AM	37	27	2247		Out	0
	Subtotal					60	Subtotal	-
	In	9:46:31 AM	36	31	2191		In	0
		9:51:51 AM		51			Out	0
	Out	9.51.51 AW	41	31	2511	200		U
	Subtotal					320	Subtotal	
	In	9:46:31 AM	36	31	2191		In	0
	Out	9:48:14 AM	38	14	2294		Out	0
	Subtotal					103	Subtotal	
	In	9:46:35 AM	36	35	2195		In	0
	Out	9:48:39 AM	38	39	2319		Out	0
	Subtotal	33.30 / HVI	30	30	_5.0	124	Subtotal	•
	In	9:47:40 AM	37	40	2260		In	0
	Out	9:51:44 AM	41	44	2504		Out	0
	Subtotal					244	Subtotal	
	In	9:48:36 AM	38	36	2316		In	0
	Out	9:50:25 AM	40	25	2425		Out	0
	Subtotal					109	Subtotal	
	In	9:49:32 AM	39	32	2372		In	0
	Out						Out	0
		9:52:58 AM	42	58	2578	200		U
	Subtotal	0.54.00 444	4.4		0.400	206	Subtotal	
	ln	9:51:03 AM	41	3	2463		ln .	0
	Out	9:52:44 AM	42	44	2564		Out	0
	Subtotal					101	Subtotal	
	In	9:52:04 AM	42	4	2524		In	0
	Out	9:53:21 AM	43	21	2601		Out	0
	Subtotal		.5			77	Subtotal	ŭ
_		0.52.47 ^ 14	40	17	2627			0
	In	9:53:47 AM	43	47	2627		In	U

Trip Type: DEPARTURES Date: 10/1/2009 Video Time: 0:54:44 Start Time: 9:10 AM

D	Out	9:55:04 AM	45	4	2704	I	Out	0		
	Subtotal					77	Subtotal		0	1
	In	9:54:43 AM	44	43	2683		In	0		
D	Out	9:54:57 AM	44	57	2697		Out	0		
	Subtotal					14	Subtotal		0	1
	In	9:55:31 AM	45	31	2731		In	0		
D	Out	9:58:12 AM	48	12	2892		Out	0		
	Subtotal					161	Subtotal		0	1
	In	9:55:58 AM	45	58	2758		In	0		
D	Out	10:00:17 AM	50	17	3017		Out	0		
	Subtotal					259	Subtotal		0	1
	In	9:57:37 AM	47	37	2857		In	0		
D	Out	9:58:30 AM	48	30	2910		Out	0		
	Subtotal					53	Subtotal		0	1
	In	9:59:38 AM	49	38	2978		In	0		
D	Out	10:01:38 AM	51	38	3098		Out	0		
	Subtotal					120	Subtotal		0	1
	In	9:59:52 AM	49	52	2992		In	0		
D	Out	10:02:30 AM	52	30	3150		Out	0		
	Subtotal					158	Subtotal		0	1
	In	10:02:10 AM	52	10	3130		In	0		
D	Out	10:04:40 AM	54	40	3280		Out	0		
	Subtotal					150	Subtotal		0	1
	In	10:03:08 AM	53	8	3188		In	0		
D	Out	10:04:20 AM	54	20	3260		Out	0		
	Subtotal					72	Subtotal		0	1
	In	10:03:13 AM	53	13	3193		In	0		
D	Out	10:03:43 AM	53	43	3223		Out	0		
	Subtotal					30	Subtotal		0	1
	TOTAL DV	WELLING TIME IN S	SECONDS			7091	TOTAL DWELLING TIME IN SECONDS		798	
	TOTAL VE	HICLES				59	TOTAL VEHICLES		12	
	AVERAGE	DWELLING TIME	PER VEHIC	CLE		120	AVERAGE DWELLING TIME PER VEHICLE		67	
							TAXIS			
							TOTAL DWELLING TIME IN SECONDS		255	
							TOTAL VEHICLES		4	
							AVERAGE DWELLING TIME PER VEHICLE		64	
									<u> </u>	

Appendix F3

CURB_PLAN

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET No 1 INPUTS

Project Description

User Name: URS Corporation Date: November 1, 2009

Airport: Manchester-Boston Regional Airport

Location: Shephard Road at Terminal

Project #:

Scenario: 2009 (Existing) AM Peak Hour

User Notes: Fifteen (15) Minute Peak Arrival Factor

Step 1: Enter Peak Hour Volumes (vph) *					
Pk Hr			Mode		PEAK
Vehicle Types	Vols		%	Vols	HR VOLS
Autos	0		82%	227	227
Vans	0		17%	47	47
Buses	0		0%	0	0
Taxis	0		1%	3	3
Other	0		0%	0	0
TOTAL (vph)	0		100%	277	277

* Enter either actual volumes in the peak hour volume columns OR mode split % AND total volume in the mode columns. CURB_PLAN will use the column with the greater total volume.

Step 2: Enter Average		
Dwell Time (sec/veh)		
Autos	117.0	
Vans	65.0	
Buses	0.0	
Taxis	91.0	
Other	0.0	

Step 3: Enter Average		
Veh Berth Space (feet)		
Autos	25	
Vans	36	
Buses	0	
Taxis	25	
Other	0	

Step 4: Enter Peak		
Surge/Arrival Factor		
Autos	1.10	
Vans	1.10	
Buses	0.00	
Taxis	1.10	
Other	0.00	

Step 5: Enter Usable Frontage (feet) Linear Frontage: 1015 Unusable Frontage: Crosswalks 60 Doors Other Gate Concentration Factor** 0.55 range 0.5 to 0.9 Total Effective Frontage (ft): **275** ** Default = 0.8

GO TO WORKSHEET 1 USER GUIDE

<Enter Usage Here

Step 6: Enter Curbfront Usage			
Select Number of Lanes: 3			
Select Usage: 2 Lanes Usage			
L = Load/Unload	3 Lanes Usage	L,C,T	
C = Circulation	4 Lanes Usage		
T = Through	5 Lanes Usage		
	6 Lanes Usage		

CALCULATE **CURBFRONT** LOS

CALCULATE **VOLUME**

CALCULATE FRONTAGE

CALCULATE **QUEUES**

CALCULATE **CIRCULATION LOS**

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 2

FIND CURB FRONT LEVEL OF SERVICE - GIVEN VOLUMES AND FRONTAGE LENGTH

GO TO WORKSHEET 2 USER **GUIDE**

INPUTS FROM WORKSHEET 1

PEAK HO VOLUMES (
Autos	227
Vans	47
Buses	0
Taxi	3
Other	0
TOTAL	277

AVERAGE		
DWELL TIME (sec/veh)		
Autos	117	
Vans	65	
Buses	0	
Taxis	91	
Other	0	

Average Vehicle			
Berth Space (feet)			
Autos	25		
Vans	36		
Buses	0		
Taxis	25		
Other	0		

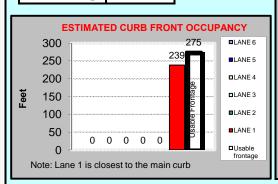
Lane 5: 0.00

Lane 6: 0.00

Peak Surge/A	Arrival
Factor	•
Autos	1.10
Vans	1.10
Buses	0.00
Taxis	1.10
Other	0.00

Frontage needed:		
(feet)		
203	Autos	
34	Vans	
0	Buses	
2	Taxis	
0	Other	
239	Total	

Usable frontage 275



Frontage Needed(ft):	239
Total Load/Unload Frontage (ft):	275
Effective/Usable Curb Length Ratio:	0.87
CURB FRONT LOS:	Α
Density [pc/100ft](Range 0-4):	
Lane 1:	3.47
Lane 2:	0.00
Lane 3:	0.00
Lane 4:	0.00

OUTPUT RESULTS:

Effective/Usable			
Curb Len	gth Ratio	LOS	
0.0	- 1.0	A	
1.0	- 1.1	В	
1.1	- 1.3	C	
1.3	- 1.7	D	
1.7	- 2.0	E	
2.0	- 999	F	

RETURN TO

INPUTS

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 3

FIND MAX VOLUMES FOR GIVEN FRONTAGE AND LEVEL OF SERVICE

GO TO WORKSHEET 3 USER GUIDE

INPUTS FROM WORKSHEET 1

PEAK HOUR VOLUMES (vph)		
Autos	227.1	
Vans	47.09	
Buses	0	
Taxis	2.77	
Other	0	
TOTAL	277	

Usable frontage 275

AVERAGE		
DWELL TIME (sec/veh)		
Autos	117	
Vans	65	
Buses	0	
Taxis	91	
Other	0	

Desired (future) Usable frontage 500

Average Vehicle Berth Space (feet)	
Autos	2
Vans	30
Buses	(
Taxis	2
Other	(

Peak Surge/A Factor	rrival
Autos	1.10
Vans	1.10
Buses	0
Taxis	1.1
Other	0

Frontage needed: (feet)		
203	Autos	
34	Vans	
0	Buses	
2	2 Taxis	
0 Other		
239 Total		

OIITPII	TRES	·2T.III

Desired LOS:

Desired Effective Curb Length Ratio: 1.30

Desired Frontage: 500 Frontage Needed(ft): 650

Maximum Volumes* for Desired LOS & Desired Frontage

Autos: 514
Vans: 106
Buses: 0
Taxis: 6
Other: 0
TOTAL: 626

С

 Effective/Usable

 Curb Length Ratio
 LOS

 0.0
 - 1.0
 A

 1.0
 - 1.1
 B

 1.1
 - 1.3
 C

 1.3
 - 1.7
 D

 1.7
 - 2.0
 E

 2.0
 - 999
 F

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 4

FIND REQUIRED FRONTAGE GIVEN VOLUMES AND LEVEL OF SERVICE

GO TO WORKSHEET 4 USER GUIDE

INPUTS FROM WORKSHEET 1

PEAK HOUR	
VOLUMES (vph)
Autos	227
Vans	47.1
Buses	0
Taxis	2.77
Other	0
TOTAL	277

AVERAGE	
DWELL TIME (se	c/veh)
Autos	117
Vans	65
Buses	0
Taxis	91
Other	0

Average Veh	icle
Berth Space (feet)
Autos	25
Vans	36
Buses	0
Taxis	25
Other	0

Arrival	Peak Surge/
r	Factor
1.10	Autos
1.10	Vans
0	Buses
1.1	Taxis
0	Other

Frontage needed:		
(feet)		
203	Autos	
34	Vans	
0	Buses	
2	Taxis	
0 Other		
239 Total		

Usable frontage 275

Input Desired Level of Service (A-E): C

OUTPUT RESULTS:

Desired Effective Curb Length Ratio: 1.30
Frontage (ft) Required for Desired LOS: 184

Effective/Usable			
Curb Len	gth Ratio	LOS	
0.0	- 1.0	Α	
1.0	- 1.1	В	
1.1	- 1.3	С	
1.3	- 1.7	D	
1.7	- 2.0	E	
2.0	- 999	F	

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 5
95th PERCENTILE QUEUE LENGTHS

GO TO WORKSHEET 5 USER GUIDE

INPUTS FROM WORKSHEET 1

PEAK HOUR	2
VOLUMES (vg	oh)
Autos	227.1
Vans	47.09
Buses	0
Taxis	2.77
Other	0
TOTAL	277

AVERAGE		
DWELL TIME (sec/veh)		
Autos	117	
Vans	65	
Buses	0	
Taxis	91	
Other	0	

icle
feet)
25
36
0
25
0

- 6					
	Average				
	Arrivals pe	er second			
	Autos	0.063			
	Vans	0.013			
	Buses	0.000			
	Taxis	0.001			
	Other	0.000			
	TOTAL	0.077			
		•			

Net			
Average Arrivals			
Autos	7.382		
Vans	0.850		
Buses	0.000		
Taxis	0.070		
Other	0.000		
TOTAL	8.302		

Input Number of Approach Lanes 2

OUTPUT RESULTS: 95th Percentile Queue Length (ft) Autos 300 Vans 108 Buses 0 Taxis 0 Other 0 Total Frontage Needed (Using Poisson) 408 Minus total available frontage parking -413 TOTAL QUEUE per Lane 0

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 6
CIRCULATION LOS (By Row)

INPUTS FROM WORKSHEET 1

PEAK HOUR				
VOLUMES (vph)				
Autos	227			
Vans	47			
Buses	0			
Taxis	2.77			
Other	0			
TOTAL	277			

Lane	
Usage	
Lane 1 L	
Lane 2 C	
Lane 3 T	
Lane 4	
Lane 5	
Lane 6	

LOS E Circulation				
vph)	Capacity (
0	Lane 1			
300	Lane 2			
600	Lane 3			
0	Lane 4 0			
0	Lane 5 0			
Lane 6 0				
900	Row Capacity:			

Volume to			
Capacity Ratio			
TOTAL	0.308		

30	TO	WORKSHEET	3
	US	SER GUIDE	

Volume/Ca	Volume/Capacity				
	<u>Ratio</u>	LOS			
	N/A	A			
	N/A	В			
0.00	- 0.28	С			
0.28	- 0.92	D			
0.92	- 1.00	E			
1.00	- 999	F			

OUTPUT RESULTS:

Circulation LOS:

D

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET No 1 INPUTS

Project Description

User Name: URS Corporation
Date: November 1, 2009

Airport: Manchester-Boston Regional Airport

Location: Shephard Road at Terminal

Project #:

Scenario: 2009 (Existing) PM Peak Hour

User Notes: Fifteen (15) Minute Peak Arrival Factor

Step 1: Enter Peak Hour Volumes (vph) *					
		Mode		PEAK	
Vehicle Types	Vols		%	Vols	HR VOLS
Autos	0		86%	286	286
Vans	0		12%	40	40
Buses	0		0%	0	0
Taxis	0		2%	7	7
Other	0		0%	0	0
TOTAL (vph)	0		100%	333	333

* Enter either actual volumes in the peak hour volume columns
OR mode split % AND total volume in the mode columns.
CURB_PLAN will use the column with the greater total volume.

Step 2: Enter Average		
Dwell Time (sec/veh)		
Autos	117.0	
Vans	65.0	
Buses	0.0	
Taxis	91.0	
Other	0.0	

Step 3: Enter Average		
Veh Berth Space (feet)		
Autos	25	
Vans	36	
Buses	0	
Taxis	25	
Other	0	

Step 4: Enter Peak		
Surge/Arrival Factor		
Autos	1.10	
Vans	1.10	
Buses	0.00	
Taxis	1.10	
Other	0.00	

 Step 5: Enter Usable Frontage (feet)

 Linear Frontage:
 1015

 Unusable Frontage:
 Crosswalks
 60

 Doors
 0

 Other
 223

 Gate Concentration Factor**
 0.55

 Total Effective Frontage (ft):
 275

** Default = 0.8

GO TO WORKSHEET 1 USER GUIDE

Step 6: Enter Curbfront Usage		
Select Number of Lanes:		3
Select Usage: 2 Lanes Usage		
L = Load/Unload	3 Lanes Usage	L,C,T
C = Circulation	4 Lanes Usage	
T = Through	5 Lanes Usage	
	6 Lanes Usage	

<Enter Usage Here

CALCULATE CURBFRONT LOS

CALCULATE VOLUME CALCULATE FRONTAGE CALCULATE QUEUES

CALCULATE CIRCULATION LOS

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 2

FIND CURB FRONT LEVEL OF SERVICE - GIVEN VOLUMES AND FRONTAGE LENGTH

GO TO WORKSHEET 2 USER GUIDE

INPUTS FROM WORKSHEET 1

PEAK HOUR	
3 (vph)	VOLUMES
286	Autos
40	Vans
0	Buses
7	Taxis
0	Other
333	TOTAL

AVERAGE		
DWELL TIME (sec/veh)		
Autos	117	
Vans	65	
Buses	0	
Taxis	91	
Other	0	

Average Vehicle	
Berth Space (feet)	
Autos	25
Vans	36
Buses	0
Taxis	25
Other	0

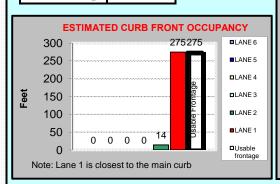
Lane 6: 0.00

OUTPUT RESULTS:

Peak Surge/A	
Autos	1.10
Vans	1.10
Buses	0.00
Taxis	1.10
Other	0.00

Frontage needed:		
(feet)		
256	Autos	
29	Vans	
0	Buses	
5	Taxis	
0 Other		
289	Total	

Usable frontage 275



Frontage Needed(ft):	289
Total Load/Unload Frontage (ft):	275
Effective/Usable Curb Length Ratio:	1.05
CURB FRONT LOS:	В
Density [pc/100ft](Range 0-4):	
Lane 1:	4.00
Lane 2:	0.21
Lane 3:	0.00
Lane 4:	0.00
Lane 5:	0.00

Effective/Usable		
Curb Len	gth Ratio	LOS
0.0	- 1.0	A
1.0	- 1.1	В
1.1	- 1.3	C
1.3	- 1.7	D
1.7	- 2.0	E
2.0	- 999	F

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 3

FIND MAX VOLUMES FOR GIVEN FRONTAGE AND LEVEL OF SERVICE

GO TO WORKSHEET 3 USER GUIDE

INPUTS FROM WORKSHEET 1

PEAK HOUR VOLUMES (vph)		
Autos	286.4	
Vans	39.96	
Buses	0	
Taxis	7	
Other	0	
TOTAL	333	

Usable frontage 275

AVERAGE DWELL TIME (sec/veh)	
Autos	117
Vans	65
Buses	0
Taxis	91
Other	0

Desired (future) Usable frontage 500

Average Vehicle Berth Space (feet)	
Autos	25
Vans	36
Buses	0
Taxis	25
Other	0

Peak Surge/A Factor	rrival
Autos	1.10
Vans	1.10
Buses	0
Taxis	1.1
Other	0

Frontage needed: (feet)		
256	Autos	
29	Vans	
0	Buses	
5 Taxis		
0	Other	
289	Total	

OUTPUT	RESULTS:

Desired Effective Curb Length Ratio: 1.30
Desired Frontage: 500

Frontage Needed(ft): 650

Desired LOS:

Maximum Volumes* for Desired LOS & Desired Frontage

Autos: 567
Vans: 79
Buses: 0
Taxis: 13
Other: 0
TOTAL: 659

С

 Curb Length Ratio
 LOS

 0.0
 - 1.0
 A

 1.0
 - 1.1
 B

 1.1
 - 1.3
 C

 1.3
 - 1.7
 D

 1.7
 - 2.0
 E

 2.0
 - 999
 F

Effective/Usable

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 4

FIND REQUIRED FRONTAGE GIVEN VOLUMES AND LEVEL OF SERVICE

GO TO WORKSHEET 4 USER GUIDE

INPUTS FROM WORKSHEET 1

UR	PEAK HO
vph)	VOLUMES
286	Autos
40	Vans
0	Buses
6.66	Taxis
0	Other
333	TOTAL

AVERAGE			
DWELL	TIME	(sec/veh)	
Au	itos	1	17
Va	ans		65
Bu	ises		0
Та	ıxis		91
Ot	her		0

Average Vehic	ele
Berth Space (fe	eet)
Autos	25
Vans	36
Buses	0
Taxis	25
Other	0

- 1		
	Peak Surge/Ar	rival
	Factor	
	Autos	1.1
	Vans	1.1
	Buses	
	Taxis	1.
	Other	

Frontage needed:		
(feet)		
256	Autos	
29	Vans	
0	Buses	
5 Taxis		
0	Other	
289	Total	

Usable frontage 275

Input Desired Level of Service (A-E): C

OUTPUT RESULTS:

Desired Effective Curb Length Ratio: 1.30
Frontage (ft) Required for Desired LOS: 222

Effective/Usable			
Curb Len	gth Ratio	<u>LOS</u>	
0.0	- 1.0	Α	
1.0	- 1.1	В	
1.1	- 1.3	C	
1.3	- 1.7	D	
1.7	- 2.0	E	
2.0	- 999	F	

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 5
95th PERCENTILE QUEUE LENGTHS

GO TO WORKSHEET 5 USER GUIDE

INPUTS FROM WORKSHEET 1

PEAK HOUR		
VOLUMES (vp	h)	
Autos	286.4	
Vans	39.96	
Buses	0	
Taxis	7	
Other	0	
TOTAL	333	

AVERAGE			
DWELL TIME (sec/veh)			
Autos	117		
Vans	65		
Buses	0		
Taxis	91		
Other	0		

Vehicle	Average
ace (feet)	Berth Spa
25	Autos
36	Vans
0	Buses
25	Taxis
0	Other

Average							
Arrivals pe	er second						
Autos	0.080						
Vans	0.011						
Buses	0.000						
Taxis	0.002						
Other	0.000						
TOTAL	0.093						

Net				
Average	Arrivals			
Autos	9.307			
Vans	0.722			
Buses	0.000			
Taxis	0.168			
Other	0.000			
TOTAL	10.197			

Input Number of Approach Lanes 2

OUTPUT RESULTS: | 95th Percentile | Queue Length (ft) | | Autos | 375 | | Vans | 72 | | Buses | 0 | | Taxis | 0 | | Other | 0 | | Total Frontage Needed (Using Poisson) | 447 | | Minus total available frontage parking | -413 | | TOTAL QUEUE per Lane | 17

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 6
CIRCULATION LOS (By Row)

INPUTS FROM WORKSHEET 1

PEAK HOUR				
VOLUM	ES (vph)			
Autos	286			
Vans	40			
Buses	0			
Taxis	7			
Other	0			
TOTAL	333			

I	ane
U	sage
Lane 1	L
Lane 2	C
Lane 3	T
Lane 4	
Lane 5	
Lane 6	

LOS E Circulation					
vph)	Capacity (
0	Lane 1				
300	Lane 2				
600	Lane 3				
0	Lane 4				
0	Lane 5				
0	Lane 6				
900	Row Capacity:				

¥7 = 1					
Volume to					
Capacity Ratio					
TOTAL 0.370					

GO	TO	WORKSHEET	6
	US	SER GUIDE	

Volume/Capacity					
	<u>Ratio</u>	LOS			
	N/A	A			
	N/A	В			
0.00	- 0.28	C			
0.28	- 0.92	D			
0.92	- 1.00	E			
1.00	- 999	F			

OUTPUT RESULTS:

Circulation LOS:

D

Appendix F4 Peak Passenger Base Scenario Forecast

PEAK PERIOD - TOTAL, ENPLANED, AND DEPLANED PASSENGERS BASE SCENARIO

MANCHESTER-BOSTON REGIONAL AIRPORT

(calendar years)

	2004	2005	2006	2007	2008	2009E	2010F:	2015 :	2020 :	2025 :	2030
Total Passengers	4,003,307	4,332,707	3,896,532	3,892,630	3,716,393	3,140,000	2,988,000	3,336,000	3,702,000	4,108,000	4,556,000
Peak Month	402,573	430,358	371,478	390,870	348,747	307,391	292,511	326,579	362,408	402,154	446,011
% of Total	10.1%	9.9%	9.5%	10.0%	9.4%	9.8%	9.8%	9.8%	9.8%	9.8%	9.8%
Average Day	12,986	13,883	11,983	12,609	11,250	9,916	9,436	10,535	11,691	12,973	14,387
Peak Hour				1,342	1,084	1,011	959	1,070	1,188	1,318	1,462
Enplaned Passengers	2,004,122	2,168,258	1,952,277	1,948,313	1,861,695	1,570,000	1,494,000	1,668,000	1,851,000	2,054,000	2,278,000
Peak Month	206,250	215,073	189,407	199,009	177,458	155,929	148,380	165,662	183,837	203,998	226,245
% of Total	10.3%	9.9%	9.7%	10.2%	9.5%	9.9%	9.9%	9.9%	9.9%	9.9%	9.9%
Average Day	6,653	6,938	6,110	6,420	5,724	5,030	4,786	5,344	5,930	6,581	7,298
Peak Hour				714	632	551	528	590	654	726	805
Deplaned Passengers	1,999,185	2,164,449	1,944,255	1,944,317	1,854,698	1,570,000	1,494,000	1,668,000	1,851,000	2,054,000	2,278,000
Peak Month	200,383	216,895	182,962	191,861	179,810	153,914	146,463	163,521	181,461	201,362	223,322
% of Total	10.0%	10.0%	9.4%	9.9%	9.7%	9.8%	9.8%	9.8%	9.8%	9.8%	9.8%
Average Day	6,464	6,997	5,902	6,189	5,800	4,965	4,725	5,275	5,854	6,496	7,204
Peak Hour				883	871	686	679	758	841	933	1,035
PEAK HOUR SEAT FACTORS	2004	2005	2006	2007	2008	2009E	2010F:	2015 :	2020 :	2025 :	2030
Total Seats				10.6%	9.6%	10.2%	10.2%	10.2%	10.2%	10.2%	10.2%
Enplaned Seats				11.1%	11.0%	10.9%	11.0%	11.0%	11.0%	11.0%	11.0%
Deplaned Seats				14.3%	15.0%	13.8%	14.4%	14.4%	14.4%	14.4%	14.4%

Notes: E=Estimate; F=Forecast.

Peak Month Factors are based on MHT enplaned passenger data for CY2004 through CY2008.

Peak Hour Factors are based on scheduled seats from the Official Airline Guide.

Peak Hour Factors projected for CY2010 through CY2030 represent the average of peak hour factors for the month of August in CY2007, 2008 and 2009.

Sources: Historical—City of Manchester Department of Aviation; Official Airline Guide.

Forecast—Jacobs Consultancy.

Appendix F5 Airport Trip Generation

Airport Trip Generation

THE AUTHORS MAILSURVEYED 253
COMMERCIAL SERVICE
AND GENERAL AVIATION
AIRPORTS IN THE UNITED
STATES TO OBTAIN
CURRENT INFORMATION
AND COLLECT DATA ON
ADDITIONAL PREDICTOR
VARIABLES.

IN 1994, THE AIRPORTS COUNCIL International-North America (ACI-NA) conducted a survey of the critical issues and capital needs related to airport surface access. This study found that on a typical busy day at 73 percent of the airports surveyed, passengers experienced greater delays or congestion on the airport access and circulation roadways compared to only 20 percent on the airfield. The ACI-NA survey revealed the following to be major concerns to the airports responding to the 1994 survey.¹

- Off-airport access roadway congestion—79 percent of responding large-hub airports, 63 percent of medium-hub airports and 41 percent of small-hub airports.
- On-airport roadway congestion— 68 percent of the large hubs, 69 percent of medium hubs and 34 percent of small hubs.
- Airport curbside congestion—89
 percent of the large hubs, 92 percent
 of medium hubs and 72 percent of
 the small-hub airports.

All of these congestion concerns relate to the vehicular demand generated by commercial service airport facilities. Thus, a detailed understanding of the trip-generation potential of these airports is required to develop practical solutions that can mitigate airport-related traffic congestion, both on and off airport property.

STUDY SCOPE AND OUTLINE

The existing Institute of Transportation Engineers' (ITE) trip-generation

models for commercial service airports are based on two Califor-

nia studies performed in 1975 and one in 1983.² Trip-generation characteristics for a broad range of airports were not included, and the predictor variables used in the current manual may be insufficient to predict landside traffic at air carrier airports.

During the summer of 1996, the authors mail-surveyed numerous commercial service and general aviation airports in the United States. The purpose of the survey was to obtain current information and collect data on additional predictor variables that could be used to develop a general model suitable for a wide range of applications. This study also reviewed data obtained from the California Aviation System Plan,³ existing airport master plans and individual airport ground access studies and traffic counts. A complete data set was prepared to analyze airport trip generation and mode-split characteristics for 39 commercial service airports. All of the tripgeneration information contained in this data set represents recent study information obtained during the 1990s.

Data provided by many of the general aviation airports (no commercial service) contained in the survey provided incomplete or inconsistent information. Thus, rigorous statistical analysis for this study was primarily limited to commercial service airports. As a consequence, the analyses associated with the commercial service airports are based on larger sample sizes and produced statistically more reliable results. The reader is referred to the National Cooperative Highway Research Program (NCHRP) Report 1874 for a more descriptive presentation of trip generation at general aviation airports.

CHARACTERISTICS OF THE AIRPORT GROUND TRIP

During the past three decades, most air passengers have depended almost exclusively upon the automobile as their primary source of transportation to and from the airport; airport employees also rely on the automobile. However, at airports where a mature transit system exists, such as Newark or LaGuardia, as many as 10 to 20 percent of the employees can be expected to use transit instead of an automobile.⁵

BY TERRY A. RUHL AND BORIS TRNAVSKIS

Modal preferences of central business district (CBD) passengers are shared somewhat among the various modes, including taxis, limousines and public transit. Taxicab usage is more popular when the CBD is close to the airport. Also, airports that primarily serve tourists often have a higher use of taxicabs than other airports,⁵ and trips originating from hotels display the greatest use of high-occupancy modes.⁶ The low proportion of passengers from CBDs or other concentrated areas is one reason why high-speed rail has not yet been overly successful serving airports in the United States. While this may change in the future, continual growth of population and business in expanding suburban areas may make it even tougher for this mode to provide attractive airport access transportation.⁷

Other variables that influence mode choice include the amount of baggage and the time of day. Time of day is important because factors such as the availability of a friend to take the passenger to or from the airport, availability of taxis, amount of highway congestion, public transit schedule and the safety of the passenger are all influenced by the time of day.⁸ In addition, a survey of air passengers performed at the Cleveland-Hopkins Airport⁸ suggested that land use at the origin or destination of the trip is the variable most highly related to mode of travel.

MODELING AIRPORT TRIP GENERATION

Typically, airport planners use a series of multipliers when determining trip generation. As early as 1969, Munds used a simple formula based on annual passenger levels to derive the number of vehicles entering an airport during the peak hour.⁹ More elaborate methods of forecasting vehicular volumes that primarily involve some type of regression analysis have been developed. When choosing variables for a regression model, care must be taken to ensure that the variables can be measured reliably and can be forecast easily.

Studies by Dunlay and Wiersig, ¹⁰ Bevan and Meadows¹¹ and Manning et al. ¹² have developed detailed trip-generation and mode-split models. All of these approaches require detailed, location-spe-

cific data on the socioeconomic characteristics of the travelers and the specific modes of transportation or alternatives available. While these models proved to be very reliable, they are usually only applicable to the area for which they were calibrated.

For airport landside analyses, trip-generation and mode-split estimates are the most important procedures in estimating airport traffic volumes since the internal airport trip distribution and traffic assignment are predetermined almost by the resultant trip-generation and mode-split analyses. For example, if we can estimate the number of taxicabs generated by the airport's passengers, we can determine fairly easily where they will go in the airport—the trip distribution and traffic assignment steps. For many practical airport planning situations (or even when traffic impact studies are required for a development adjacent to the airport where airport traffic volumes must be known), general models, which are easy to use and apply to a broad range of airports, may be preferred over site-specific models, which require large, detailed, current and surveybased data for calibration.

RESEARCH METHOD

Total airport trip generation is the sum of the trips generated by individual aviation facilities that comprise a commercial service airport. Person and vehicle trips can be associated with the passenger terminal area (including facilities for passengers and employees, as well as commercial deliveries), ancillary site development (such as air cargo areas and other commercial and industrial developments that oftentimes are located on or adjacent to airport property), general aviation areas (which are usually separated from the commercial aviation areas at most airports for operational and safety reasons), and off-airport terminal facilities (such as private parking or rental car facilities where passengers park off of airport property and are shuttled to the airport terminal).

To illustrate the potential difference between the traffic volumes associated with the terminal area component as opposed to the total airport traffic volume, consider that Dallas-Fort Worth International Airport generates approximately 215,000 daily trips (4.33 trips per origin-destination passenger) in and out of all of the facilities within the property boundary, while only 80,000 of these daily trips (1.62 trips per passenger) are terminal related. In other words, only 37 percent of the total trips are related to the terminal area. This proportion can vary significantly between airports. For example, Sacramento's and Washington-Dulles' terminal area traffic represents as much as 88 percent and 69 percent of the total airport traffic, respectively.

The authors did not approach the total airport trip-generation issue by assessing the impacts of ancillary site facilities since each airport development situation is unique and each distinct land use type should be evaluated separately. As a result, this study concentrates on airport trips associated with the airport passenger terminal area.

TRIP-GENERATION MODEL RESULTS

Numerous regression models were tested to find the most robust forecasting model that is able to estimate trip generation in terms of vehicle-trip ends (due to the lack of other available data such as person-trip ends) using passenger activity levels, mode split, parking availability and other independent variables obtained from the airport survey. The statistical validity of each model was evaluated using standard statistical tests, such as the standard error, r squared, F test and the t test for significance of individual regression coefficients at the 95 percent level of significance.

The only statistically significant relationships that could be developed from the data set of 39 commercial service airports were derived from measuring vehicle-trip ends (in terms of the average daily traffic [ADT] entering and exiting the airport) and the number of daily origin-destination passengers. Figure 1 illustrates this general relationship. This causal relationship emulates the results of an earlier study by Ellis¹³ who tried to develop relationships between trip-generation/mode split and about 14 independent variables that ranged from passenger activity (general aviation and airline service) to service area population and the number of airport employees.

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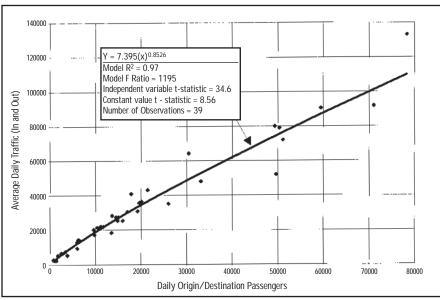


Figure 1. Relationship between terminal related average daily traffic and daily origin/destination passengers.

Table 1. Actual airport trip generation by passenger activity level.

			% Automobile Mode Split		
Annualized Origin-Destination Passengers	Average Trip Rate (ADT per Daily O/D Passenger) ¹	Low-High Trip Rate (ADT per Daily 0/D Passenger)	Arithmetic Mean	Range	
<1.0 Million	2.67-2.74	1.72-3.73	91.3%	90%-94%	
1.0 Million-	1.78-1.89	1.35-2.35	82.8%	69%-95%	
10.0 Million	1110 1100	1,00 2,00	02.070	0070 0070	
>10.0 Million	1.50-1.53	1.05-2.11	72.8%	60%-84%	

Note

1. The ranges in the average trip rates are based on two methodologies. The low value represents the slope of a linear regression model of the subset data (or a weighted average) and the high value simply represents the arithmetic mean of the subset data.

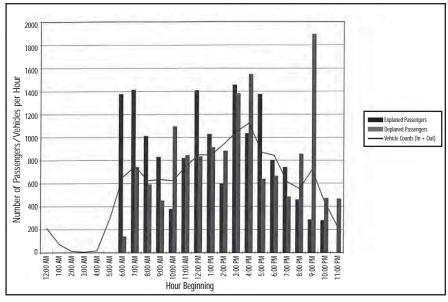


Figure 2. Hourly enplanements, deplanements and main entrance/exit traffic counts in Austin, Texas (AUS), USA.

Table 1 provides additional trip-generation analysis results when further separating the traffic into incremental annual passenger levels. Even though the logarithmic aggregate model provides an excellent fit to the data, there can be significant differences in trip-generation rates at similar sized airports as shown in Table 1.

No mathematical relationship could be developed to include mode split in the trip-generation models, nor could any other independent variable provide a significant model relationship to terminal related ADT. Figure 1 and Table 1. however, illustrate some intuitive relationships (or trends). As the number of daily origin-destination passengers increases, the trip-generation rate and corresponding percentage of automobile use (private automobiles and rental cars) decreases. Besides an increased availability of high-occupancy vehicle modes at larger airports, the presence of off-airport terminals, such as private parking or offsite rental car areas, also tends to increase the amount of shuttle vans (or buses) and decrease the percentage of private automobiles entering the terminal area.

For smaller airport facilities (less than one-million annual origin-destination passengers), the high trip-generation rate is indicative of the fact that the private automobile is the primary mode of transportation. Also, at smaller facilities, traffic for ancillary services tends to share roadway facilities with airportrelated traffic. For example, air cargo and even general aviation-related traffic may be required to use the main terminal roadway at smaller airports. In this case, the terminal building may provide a larger variety of services, whereas at larger airports, such distinct service areas are typically separated, and thus the traffic destined for these areas are separated.

PEAKING CHARACTERISTICS

Landside traffic demands at commercial service airports tend to follow the peaking characteristics of passenger enplanements and passenger deplanements, as illustrated by a typical activity chart shown in Figure 2. Of the airports surveyed, complete peak-

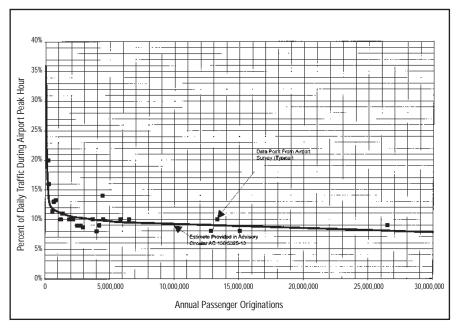


Figure 3. Relationship between peak hour and daily traffic.

Table 2. ADT and peak-hour trip-generation estimates (all airports).				
Terminal Related ADT per Daily Origin/Destination Passenger	Percent of ADT During Peak Hour of Generator (Airport)	Percent Inbound in Peak Hour (Average/Range)	Percent Outbound in Peak Hour (Average/Range)	
Arithmetic	See Figure 3	Arithmetic	Arithmetic	
Mean = 1.91 Range = 1.05–3.73		Mean = 47%	Mean = 53%	

lab	ole 3. Airport n	node splits by pa	issenger activity	/ level.
Annual Origin/Destination Passengers	Percent Automobile (Arithmetic Mean/Range)	Percent Taxicab/Limousine (Arithmetic Mean/Range)	Percent Shuttle Van (Arithmetic Mean/Range)	Percent Public Transportation/ Other (Arithmetic Mean/Range)
<1.0 Million	91.3%	4.3%	4.3%	0.1%
	90–94%	3–5%	1–7%	0-1%
1.0 Million–	82.8%	7.0%	9.1%	1.1%
10.0 Million	69-95%	2–17%	1–25%	0–4%
>10.0 Million	72.8%	12.1%	12.1%	3.0%
	60–84%	4–22%	6–18%	0-10%

ing information was obtained from 24 airports. Seventy-one percent of the airports in the survey had peak hours that tend to coincide with typical peak-hour, non-airport traffic conditions (6 a.m. to 9 a.m. and 3 p.m. to 6 p.m.).

Figure 3 illustrates a scatter diagram plot of the relationship between the peakhour percentage of the airport-generated traffic (vehicle trips) for varying passenger activity levels. At smaller airports, a larger percentage of the daily traffic occurs during the peak hour, as opposed to larger airports where traffic tends to be more evenly distributed throughout the day. Note that the vehicular traffic data points from the airport survey fit very well with the typical passenger-related, peak-hour percentages of daily passenger traffic volumes provided in AC 150/5325-13, Planning and Design of Passenger Terminal Facilities. 14 Thus, it is recommended that this graph be used to establish peak-hour traffic conditions from ADT information when sitespecific data are not available.

Peak-hour traffic among the airports surveyed ranged from 8 percent of the daily traffic at the larger airports to 20 percent of the daily traffic at smaller, non-hub airports. The overall average peak-hour percentage of the daily traffic that occurs during the airport peak hour was approximately 11 percent.

Table 2 provides typical peak-hour landside traffic conditions at commercial service airports.

AIRPORT MODE SPLIT

While there is a distinct trip-generation difference in the airport activity level subsets (less than one-million annual passengers, between one-million and 10-million annual passengers, and greater than 10-million annual passengers), there is also a significant range in the trip-generation rates within each subset. Experience has indicated that while mode split can help determine the trip-generation rate, it also can be a misleading factor since it has been found that airports with similar mode splits can have varying trip-generation rates. This is typically a result of the number of passengers dropped off and picked up by relatives or friends (this tripmaking process typically accounts for the

highest number of vehicle trips per passenger); the vehicle occupancy conditions; the amount of off-airport parking and rental car activity; the service orientation of the airport (i.e., whether it serves largely business- or pleasure-oriented traffic); and the trip-making characteristics and number of airport employees.

A summary of the average and range of mode-split percentage, by airport activity level, is presented in Table 3. Classifications have been made for automobiles, limousines/taxicabs, shuttle vans and public transportation or "other" categories. These mode-split classifications are based upon the most representative classifications obtained from the airport survey.

SUMMARY AND CONCLUSIONS

A new trip-generation model, which should serve as an update to the existing ITE trip-generation models for commercial service airports, has been developed based on traffic and mode split data obtained from a variety of commercial service airports. It is intended to provide a generalized model to be used primarily by traffic engineers to address airport landside design issues based on minimal input data.

The research presented herein indicates that the number of daily origin-destination passengers provides an excellent indication of the number of daily vehicle trips related to the airport terminal. Also, as the number of annual origin-destination passengers increases, the average daily vehicle trip rate (per origin-destination passenger), the percentage use of the private automobile and the peak-hour percentage of daily traffic all decrease.

Each individual airport has unique landside operational features; and as with any forecasting model, there will be some level of variance between actual and predicted values. The model contained herein should provide a reasonable basis for determining the landside impacts of airport passenger terminal facilities, when more detailed, site-specific data are not available.

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Appendix F6 Forecast Years CURB_PLAN Analysis

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET No 1 INPUTS

Project Description

User Name: URS Corporation Date: November 1, 2009

Airport: Manchester-Boston Regional Airport

Location: Shephard Road at Terminal

Project #:

Scenario: Forecast 2015 (3.3 MAP) - Peak Hour

User Notes: Fifteen (15) Minute Peak Arrival Factor

Step 1: Enter Peak Hour Volumes (vph) *					
		Mode		PEAK	
Vehicle Types	Vols		%	Vols	HR VOLS
Autos	0		86%	301	301
Vans	0		12%	42	42
Buses	0		0%	0	0
Taxis	0		2%	7	7
Other	0		0%	0	0
TOTAL (vph)	0		100%	350	350

* Enter either actual volumes in the peak hour volume columns OR mode split % AND total volume in the mode columns. CURB_PLAN will use the column with the greater total volume. Step 2: Enter Average Dwell Time (sec/veh) Autos 117.0 Vans 65.0 Buses 0.0 91.0 Taxis Other 0.0

Step 3: Enter Average			
Veh Berth Space (feet)			
Autos	25		
Vans	36		
Buses	0		
Taxis	25		
Other	0		

Step 4: Enter Peak			
Surge/Arrival Factor			
Autos	1.10		
Vans	1.10		
Buses	0.00		
Taxis	1.10		
Other	0.00		

Step 5: Enter Usable Frontage (feet) Linear Frontage: 1015 Unusable Frontage: Crosswalks 60 Doors Other 0.55 range 0.5 to 0.9 Gate Concentration Factor** Total Effective Frontage (ft): **275** ** Default = 0.8

GO TO WORKSHEET 1 USER GUIDE

Step 6: Enter Curbfront Usage			
Sele	ect Number of Lanes:	3	
Select Usage: 2 Lanes Usage			
L = Load/Unload	3 Lanes Usage	L,C,T	
C = Circulation	4 Lanes Usage		
T = Through	5 Lanes Usage		
	6 Lanes Usage		

<Enter Usage Here

CALCULATE **CURBFRONT** LOS

CALCULATE **VOLUME**

CALCULATE **FRONTAGE**

CALCULATE **QUEUES**

CALCULATE **CIRCULATION LOS**

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 2

FIND CURB FRONT LEVEL OF SERVICE - GIVEN VOLUMES AND FRONTAGE LENGTH

GO TO WORKSHEET 2 USER GUIDE

INPUTS FROM WORKSHEET 1

HOUR	PEAK
ES (vph)	VOLUMI
301	Autos
42	Vans
0	Buses
7	Taxis
0	Other
350	TOTAL

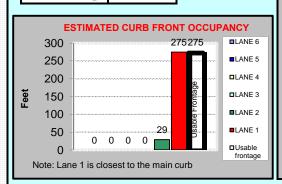
AVERAGE		
DWELL TIME (sec/veh)		
Autos	117	
Vans	65	
Buses	0	
Taxis	91	
Other	0	

Average Vehi	
Berth Space (f	eet)
Autos	25
Vans	36
Buses	0
Taxis	25
Other	0

ľ	Peak Surge/A	rrival
	Factor	
ľ	Autos	1.10
	Vans	1.10
	Buses	0.00
	Taxis	1.10
	Other	0.00

Frontage needed: (feet)		
269	Autos	
30	Vans	
0	Buses	
5	Taxis	
0	Other	
304	Total	

Usable frontage 275



Frontage Needed(ft):	304
Total Load/Unload Frontage (ft):	275
Effective/Usable Curb Length Ratio:	1.11
CURB FRONT LOS:	С
Density [pc/100ft](Range 0-4):	

OUTPUT RESULTS:

Lane 1:	4.00
Lane 2:	0.42
Lane 3:	0.00
Lane 4:	0.00
Lane 5:	0.00
Lane 6:	0.00

<u>Effectiv</u>	e/Usable	
Curb Len	gth Ratio	LOS
0.0	- 1.0	A
1.0	- 1.1	В
1.1	- 1.3	C
1.3	- 1.7	D
1.7	- 2.0	E
2.0	- 999	F

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 3

FIND MAX VOLUMES FOR GIVEN FRONTAGE AND LEVEL OF SERVICE

GO TO WORKSHEET 3 USER GUIDE

INPUTS FROM WORKSHEET 1

PEAK HOUR VOLUMES (vph)	
Autos	301
Vans	42
Buses	0
Taxis	7
Other	0
TOTAL	350

Usable frontage 275

AVERAGE DWELL TIME (sec/veh)	
Autos	117
Vans	65
Buses	0
Taxis	91
Other	0

Desired (future) Usable frontage 500

Average Vehicle Berth Space (feet)	
Autos	25
Vans	36
Buses	(
Taxis	2
Other	(

Peak Surge/A Factor	rrival
Autos	1.10
Vans	1.10
Buses	0
Taxis	1.1
Other	0

Frontage (feet)	e needed:
269	Autos
30	Vans
0	Buses
5	Taxis
0	Other
304	Total

OU'	TPUT	RESUL	TS:

Desired LOS:

Desired Effective Curb Length Ratio: 1.30
Desired Frontage: 500

Frontage Needed(ft): 650

Maximum Volumes* for Desired LOS & Desired Frontage

Autos: 567
Vans: 79
Buses: 0
Taxis: 13
Other: 0
TOTAL: 659

С

 Curb Length Ratio
 LOS

 0.0
 - 1.0
 A

 1.0
 - 1.1
 B

 1.1
 - 1.3
 C

 1.3
 - 1.7
 D

 1.7
 - 2.0
 E

 2.0
 - 999
 F

Effective/Usable

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 4

FIND REQUIRED FRONTAGE GIVEN VOLUMES AND LEVEL OF SERVICE

GO TO WORKSHEET 4 USER GUIDE

INPUTS FROM WORKSHEET 1

	PEAK HOUR
	VOLUMES (vph)
301	Autos
42	Vans
0	Buses
7	Taxis
0	Other
350	TOTAL

AVERAGE	
DWELL TIME (sec	:/veh)
Autos	117
Vans	65
Buses	0
Taxis	91
Other	C

-	
Average Vehic	:le
Berth Space (fe	et)
Autos	25
Vans	36
Buses	0
Taxis	25
Other	0

rrival	Peak Surge/A
	Factor
1.10	Autos
1.10	Vans
0	Buses
1.1	Taxis
0	Other

Frontage needed:		
(feet)		
269	Autos	
30	Vans	
0	Buses	
5	Taxis	
0	Other	
304	Total	

Usable frontage 275

Input Desired Level of Service (A-E): C

OUTPUT RESULTS:

Desired Effective Curb Length Ratio: 1.30
Frontage (ft) Required for Desired LOS: 234

Effective/Usable			
Curb Len	gth Ratio	<u>LOS</u>	
0.0	- 1.0	Α	
1.0	- 1.1	В	
1.1	- 1.3	C	
1.3	- 1.7	D	
1.7	- 2.0	E	
2.0	- 999	F	

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 5
95th PERCENTILE QUEUE LENGTHS

GO TO WORKSHEET 5 USER GUIDE

INPUTS FROM WORKSHEET 1

PEAK HOUR	
VOLUMES (vph)	
Autos	301
Vans	42
Buses	0
Taxis	7
Other	0
TOTAL	350

AVERAGE		
DWELL TIME (sec/veh)		
Autos	117	
Vans	65	
Buses	0	
Taxis	91	
Other	0	

Average Veh	icle
Berth Space (feet)
Autos	25
Vans	36
Buses	0
Taxis	25
Other	0

	Average		
Arr	ivals	per	second
A	utos		0.084
7	ans		0.012
В	uses		0.000
Т	axis		0.002
0	ther		0.000
T	OTAL		0.097

Net		
Average Arrivals		
Autos	9.783	
Vans	0.758	
Buses	0.000	
Taxis	0.177	
Other	0.000	
TOTAL	10.718	

Input Number of Approach Lanes 2

OUTPUT RESULTS: 95th Percentile

Queue Length (ft)

Autos 375

Vans 72

Buses 0

Taxis 0

Other 0
Total Frontage Needed (Using Poisson) 447

Minus total available frontage parking -41

TOTAL QUEUE per Lane 1

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 6
CIRCULATION LOS (By Row)

INPUTS FROM WORKSHEET 1

PEAK HOUR		
VOLUMI	ES (vph)	
Autos	301	
Vans	42	
Buses	0	
Taxis	7	
Other	0	
TOTAL	350	

Lane		
Usage		
Lane	1	L
Lane	2	С
Lane	3	Т
Lane	4	
Lane	5	
Lane	6	

LOS E Circulation	
Capacity (vph)	
0	Lane 1
300	Lane 2
600	Lane 3
0	Lane 4
0	Lane 5
0	Lane 6
900	Row Capacity:

Volume to		
Capacity Ratio		
TOTAL	0.389	

GO TO WORKSHEET 6 USER GUIDE

Volume/Capacity			
	<u>Ratio</u>		
	N/A	A	
	N/A	В	
0.00	- 0.28	С	
0.28	- 0.92	D	
0.92	- 1.00	E	
1.00	- 999	F	

OUTPUT RESULTS:

Circulation LOS:

D

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET No 1 INPUTS

Project Description

User Name: URS Corporation
Date: February 2, 2010

Airport: Manchester-Boston Regional Airport
Location: Shephard Road at Terminal

-

Project #: Scenario: Forecast 2020 (3.7 MAP) - Peak Hour

User Notes: Fifteen (15) Minute Peak Arrival Factor

Step 1: Enter Peak Hour Volumes (vph) *					
Pk Hr			Mode		PEAK
Vehicle Types	Vols		%	Vols	HR VOLS
Autos	0		86%	335	335
Vans	0		12%	47	47
Buses	0		0%	0	0
Taxis	0		2%	8	8
Other	0		0%	0	0
TOTAL (vph)	0		100%	390	390

* Enter either actual volumes in the peak hour volume columns
OR mode split % AND total volume in the mode columns.
CURB_PLAN will use the column with the greater total volume.

 Step 2: Enter Average

 Dwell Time (sec/veh)

 Autos
 117.0

 Vans
 65.0

 Buses
 0.0

 Taxis
 91.0

 Other
 0.0

Step 3: Enter Average		
Veh Berth Space (feet)		
Autos	25	
Vans	36	
Buses	0	
Taxis	25	
Other	0	

Step 4: Enter Peak		
Surge/Arrival Factor		
Autos	1.10	
Vans	1.10	
Buses 0.00		
Taxis 1.10		
Other	0.00	

 Step 5: Enter Usable Frontage (feet)

 Linear Frontage:
 1015

 Unusable Frontage:
 Crosswalks
 60

 Doors
 0

 Other
 223

 Gate Concentration Factor**
 0.55

 Total Effective Frontage (ft):
 275

 ** Default = 0.8

GO TO WORKSHEET 1 USER GUIDE

Step 6: Enter Curbfront Usage			
Select Number of Lanes: 3		3	
Select Usage: 2 Lanes Usage			
L = Load/Unload	3 Lanes Usage	L,C,T	
C = Circulation	4 Lanes Usage		
T = Through	5 Lanes Usage		
	6 Lanes Usage		

<Enter Usage Here

CALCULATE CURBFRONT LOS

CALCULATE VOLUME CALCULATE FRONTAGE

CALCULATE QUEUES

CALCULATE CIRCULATION LOS

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 2

FIND CURB FRONT LEVEL OF SERVICE - GIVEN VOLUMES AND FRONTAGE LENGTH

GO TO WORKSHEET 2 USER GUIDE

INPUTS FROM WORKSHEET 1

PEAK HOUR		
VOLUMES (vph)		
Autos	335	
Vans	47	
Buses	0	
Taxis	8	
Other	0	
TOTAL	390	

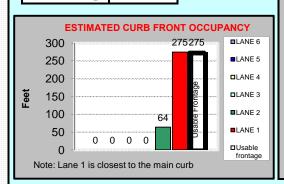
AVERAGE		
DWELL TIME (sec/veh)		
Autos	117	
Vans	65	
Buses	0	
Taxis	91	
Other	0	

Average Vehicle Berth Space (feet)		
Autos	25	
Vans	36	
Buses	0	
Taxis	25	
Other	0	

Peak Surge/A	
Autos	1.10
Vans	1.10
Buses	0.00
Taxis	1.10
Other	0.00

Frontage needed:		
(feet)		
300	Autos	
33	Vans	
0	Buses	
5	Taxis	
0	Other	
339	Total	

Usable frontage 275



Frontage Needed(ft):	339
Total Load/Unload Frontage (ft):	275
Effective/Usable Curb Length Ratio:	1.23
CURB FRONT LOS:	С
Density [pc/100ft](Range 0-4):	

OUTPUT RESULTS:

Lane 1:	4.00
Lane 2:	0.93
Lane 3:	0.00
Lane 4:	0.00
Lane 5:	0.00
Lane 6:	0.00

Effective/Usable			
Curb Len	gth Ratio	LOS	
0.0	- 1.0	A	
1.0	- 1.1	В	
1.1	- 1.3	C	
1.3	- 1.7	D	
1.7	- 2.0	E	
2.0	- 999	F	

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 3

FIND MAX VOLUMES FOR GIVEN FRONTAGE AND LEVEL OF SERVICE

GO TO WORKSHEET 3 USER GUIDE

INPUTS FROM WORKSHEET 1

PEAK HOUR		
VOLUMES (vp	h)	
Autos	335.4	
Vans	46.8	
Buses	0	
Taxis	8	
Other	0	
TOTAL	390	

Usable frontage 275

AVERAGE	
DWELL TIME (sec	:/veh)
Autos	117
Vans	65
Buses	0
Taxis	91
Other	0

Desired (future) Usable frontage 500

Average Vehicle Berth Space (feet)	
Autos	2
Vans	36
Buses	(
Taxis	25
Other	(

Peak Surge/Ar Factor	rival
Autos	1.10
Vans	1.10
Buses	0
Taxis	1.1
Other	0

Frontage needed: (feet)		
300	Autos	
33	Vans	
0	Buses	
5	5 Taxis	
0	Other	
339	Total	

OUTP	UT	RESI	ULTS:

Desired LOS:

Desired Effective Curb Length Ratio: 1.30
Desired Frontage: 500

Frontage Needed(ft): 650

Maximum Volumes* for Desired LOS & Desired Frontage

Autos: 567
Vans: 79
Buses: 0
Taxis: 13
Other: 0
TOTAL: 659

С

 Effective/Usable

 Curb Length Ratio
 LOS

 0.0
 - 1.0
 A

 1.0
 - 1.1
 B

 1.1
 - 1.3
 C

 1.3
 - 1.7
 D

 1.7
 - 2.0
 E

 2.0
 - 999
 F

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 4

FIND REQUIRED FRONTAGE GIVEN VOLUMES AND LEVEL OF SERVICE

GO TO WORKSHEET 4 USER GUIDE

INPUTS FROM WORKSHEET 1

	PEAK HOUR
h)	VOLUMES (vp)
335	Autos
46.8	Vans
0	Buses
7.8	Taxis
0	Other
390	TOTAL

AVERAGE		
DWELL	TIME (se	ec/veh)
Aut	tos	117
Va	ns	65
Bus	ses	0
Tax	xis	91
Otl	ner	0

Average Vehic	ele
Berth Space (fe	eet)
Autos	25
Vans	36
Buses	0
Taxis	25
Other	0

I	Peak Surge/A	rrival
L	Factor	
Γ	Autos	1.1
ı	Vans	1.1
ı	Buses	
ı	Taxis	1.
ı	Other	
L	Other	

Frontage needed :			
(feet)			
300	Autos		
33	Vans		
0	Buses		
5	Taxis		
0	Other		
339	Total		

Usable frontage 275

Input Desired Level of Service (A-E): C

OUTPUT RESULTS:

Desired Effective Curb Length Ratio: 1.30
Frontage (ft) Required for Desired LOS: 260

Effective/Usable			
Curb Len	gth Ratio	LOS	
0.0	- 1.0	A	
1.0	- 1.1	В	
1.1	- 1.3	C	
1.3	- 1.7	D	
1.7	- 2.0	E	
2.0	- 999	F	

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 5
95th PERCENTILE QUEUE LENGTHS

GO TO WORKSHEET 5 USER GUIDE

INPUTS FROM WORKSHEET 1

PEAK HOUR	2
VOLUMES (vp	h)
Autos	335.4
Vans	46.8
Buses	0
Taxis	8
Other	0
TOTAL	390

AVERAGE		
DWELL TIME (sec/veh)		
Autos	117	
Vans	65	
Buses	0	
Taxis	91	
Other	0	

Average Veh	icle
Berth Space (feet)
Autos	25
Vans	36
Buses	0
Taxis	25
Other	0

Average		
Arrivals per second		
Autos	0.093	
Vans	0.013	
Buses	0.000	
Taxis	0.002	
Other	0.000	
TOTAL	0.108	

Net		
Average Arrivals		
Autos	10.901	
Vans	0.845	
Buses	0.000	
Taxis	0.197	
Other	0.000	
TOTAL	11.943	

Input Number of Approach Lanes 2

OUTPUT RESULTS:

95th Percentile
Queue Length (ft)

Autos 425
Vans 108
Buses 0
Taxis 0
Other 0

Total Frontage Needed (Using Poisson) 533
Minus total available frontage parking
TOTAL QUEUE per Lane 60

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 6
CIRCULATION LOS (By Row)

INPUTS FROM WORKSHEET 1

PEAK HOUR		
VOLUMES (vph)		
Autos	335	
Vans	47	
Buses	0	
Taxis	8	
Other	0	
TOTAL	390	

	_	
	Lane	
	Usage	
Lane	1	L
Lane	2	С
Lane	3	T
Lane	4	
Lane	5	
Lane	6	

LOS E Circulation			
vph)	Capacity (
0	Lane 1		
300	Lane 2		
600	Lane 3		
0	Lane 4		
0	Lane 5		
0	Lane 6		
900	Row Capacity:		

Volume to		
Capacit	y Ratio	
TOTAL	0.433	

GO TO WORKSHEET 6 USER GUIDE

Volume/Capacity				
	<u>Ratio</u>	LOS		
	N/A	A		
	N/A	В		
0.00	- 0.28	C		
0.28	- 0.92	D		
0.92	- 1.00	E		
1.00	- 999	F		

OUTPUT RESULTS:

Circulation LOS:

D

CURB_PLAN Version 1.2 (February 25, 2000) Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET No 1 INPUTS

Project Description

User Name: URS Corporation
Date: February 2, 2010

Airport: Manchester-Boston Regional Airport

Location: Shephard Road at Terminal

Project #:

Scenario: Forecast 2025 (4.1 MAP) - Peak Hour

User Notes: Fifteen (15) Minute Peak Arrival Factor

Step 1: Enter Peak Hour Volumes (vph) *					
	Pk Hr		Mode		PEAK
Vehicle Types	Vols		%	Vols	HR VOLS
Autos	0		86%	353	353
Vans	0		12%	49	49
Buses	0		0%	0	0
Taxis	0		2%	8	8
Other	0		0%	0	0
TOTAL (vph)	0		100%	410	410

* Enter either actual volumes in the peak hour volume columns
OR mode split % AND total volume in the mode columns.
CURB_PLAN will use the column with the greater total volume.

 Step 2: Enter Average

 Dwell Time (sec/veh)

 Autos
 117.0

 Vans
 65.0

 Buses
 0.0

 Taxis
 91.0

 Other
 0.0

Step 3: Enter Average		
Veh Berth Space (feet)		
Autos	25	
Vans	36	
Buses	0	
Taxis	25	
Other	0	

Step 4: Enter Peak		
Surge/Arrival Factor		
Autos	1.10	
Vans	1.10	
Buses	0.00	
Taxis	1.10	
Other	0.00	

 Step 5: Enter Usable Frontage (feet)

 Linear Frontage:
 1015

 Unusable Frontage:
 Crosswalks
 60

 Doors
 0

 Other
 223

 Gate Concentration Factor**
 0.55

 Total Effective Frontage (ft):
 275

 ** Default = 0.8

GO TO WORKSHEET 1 USER GUIDE

<Enter Usage Here

Step 6: Enter Curbfront Usage			
Select Number of Lanes:		3	
Select Usage: 2 Lanes Usage			
L = Load/Unload	3 Lanes Usage	L,C,T	
C = Circulation	4 Lanes Usage		
T = Through	5 Lanes Usage		
	6 Lanes Usage		

CALCULATE CURBFRONT LOS

CALCULATE VOLUME CALCULATE FRONTAGE

CALCULATE QUEUES

CALCULATE CIRCULATION LOS

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 2

FIND CURB FRONT LEVEL OF SERVICE - GIVEN VOLUMES AND FRONTAGE LENGTH

GO TO WORKSHEET 2 USER **GUIDE**

INPUTS FROM WORKSHEET 1

PEAK HOUR	
VOLUMES (vph)	
Autos	353
Vans	49
Buses	0
Taxis	8
Other	0
TOTAL	410

AVERAGE	
DWELL TIME (sec/veh)	
Autos	117
Vans	65
Buses	0
Taxis	91
Other	0

Average Vehicle	
Berth Space (feet)	
Autos	25
Vans	36
Buses	0
Taxis	25
Other	0

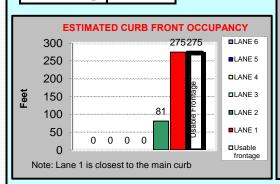
Lane 5: 0.00

Lane 6: 0.00

Peak Surge/A	
Autos	1.10
Vans	1.10
Buses	0.00
Taxis	1.10
Other	0.00

Frontage needed:	
(feet)	
315	Autos
35	Vans
0	Buses
6	Taxis
0	Other
356	Total

Usable frontage 275



Frontage Needed(ft):	356
Total Load/Unload Frontage (ft):	275
Effective/Usable Curb Length Ratio:	
CURB FRONT LOS:	
Density [pc/100ft](Range 0-4):	
Lane 1:	4.00
Lane 2:	1.18
Lane 3:	0.00
Lane 4:	0.00

OUTPUT RESULTS:

Effective/Usable		
Curb Len	gth Ratio	LOS
0.0	- 1.0	A
1.0	- 1.1	В
1.1	- 1.3	C
1.3	- 1.7	D
1.7	- 2.0	E
2.0	- 999	F

RETURN TO

INPUTS

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 3

FIND MAX VOLUMES FOR GIVEN FRONTAGE AND LEVEL OF SERVICE

GO TO WORKSHEET 3 USER GUIDE

INPUTS FROM WORKSHEET 1

PEAK HOUR		
VOLUMES (v	VOLUMES (vph)	
Autos	352.6	
Vans	49.2	
Buses	0	
Taxis	8	
Other	0	
TOTAL	410	

Usable frontage 275

AVERAGE DWELL TIME (sec/veh)	
Autos	117
Vans	65
Buses	0
Taxis	91
Other	0

Desired (future) Usable frontage 500

Average Vehicle Berth Space (feet)	
Autos	2
Vans	36
Buses	(
Taxis	25
Other	(

Peak Surge/A	rrival
Autos	1.10
Vans	1.10
Buses	0
Taxis	1.1
Other	0

Frontage needed: (feet)	
315	Autos
35	Vans
0	Buses
6	Taxis
0	Other
356	Total

OI	JTPUT	RESUL	TS:

Desired LOS:

Desired Effective Curb Length Ratio: 1.30

Desired Frontage: 500 Frontage Needed(ft): 650

Maximum Volumes* for Desired LOS & Desired Frontage

Autos: 567
Vans: 79
Buses: 0
Taxis: 13
Other: 0
TOTAL: 659

С

Effective/Usable			
Curb Le	ength Ratio	LOS	
0.0	- 1.0	Α	
1.0	- 1.1	В	
1.1	- 1.3	C	
1.3	- 1.7	D	
1.7	- 2.0	\mathbf{E}	
2.0	- 999	F	

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 4

FIND REQUIRED FRONTAGE GIVEN VOLUMES AND LEVEL OF SERVICE

GO TO WORKSHEET 4 USER GUIDE

INPUTS FROM WORKSHEET 1

JR	PEAK HO
vph)	VOLUMES
353	Autos
49.2	Vans
0	Buses
8.2	Taxis
0	Other
410	TOTAL

AVERAGE	
(sec/veh)	DWELL TIME
117	Autos
65	Vans
C	Buses
91	Taxis
C	Other

Average Vehic	le
Berth Space (fe	et)
Autos	25
Vans	36
Buses	(
Taxis	25
Other	(

1		
	Peak Surge/Arrival	
	Factor	
	Autos	1.1
	Vans	1.1
	Buses	
	Taxis	1.
	Other	

Frontage needed:		
(feet)		
315	Autos	
35	Vans	
0	Buses	
6	Taxis	
0	Other	
356	Total	

Usable frontage 275

Input Desired Level of Service (A-E):

OUTPUT RESULTS:

Desired Effective Curb Length Ratio: 1.30
Frontage (ft) Required for Desired LOS: 274

Effective/Usable		
Curb Len	gth Ratio	LOS
0.0	- 1.0	Α
1.0	- 1.1	В
1.1	- 1.3	C
1.3	- 1.7	D
1.7	- 2.0	E
2.0	- 999	F

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 5
95th PERCENTILE QUEUE LENGTHS

GO TO WORKSHEET 5 USER GUIDE

INPUTS FROM WORKSHEET 1

PEAK HOUR	
VOLUMES (v)	ph)
Autos	352.6
Vans	49.2
Buses	0
Taxis	8
Other	0
TOTAL	410

AVERAGE		
DWELL TIME (sec/veh)		
Autos	117	
Vans	65	
Buses	0	
Taxis	91	
Other	0	

Average Vehicle	
feet)	
25	
36	
0	
25	
0	

Average	
Arrivals pe	er second
Autos	0.098
Vans	0.014
Buses	0.000
Taxis	0.002
Other	0.000
TOTAL	0.114

Net	
Average Arrivals	
Autos	11.460
Vans	0.888
Buses	0.000
Taxis	0.207
Other	0.000
TOTAL	12.555

Input Number of Approach Lanes 2

OUTPUT RESULTS: 95th Percentile Queue Length (ft) Autos 425 Vans 108 Buses 0 Taxis 0 Other 0 Total Frontage Needed (Using Poisson) 533 Minus total available frontage parking -413 TOTAL QUEUE per Lane 60

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 6
CIRCULATION LOS (By Row)

INPUTS FROM WORKSHEET 1

PEAK HOUR	
VOLUMES (vph)	
Autos	353
Vans	49
Buses	0
Taxis	8
Other	0
TOTAL	410

	-	
	Lane	
	Usage	
Lane	1	L
Lane	2	С
Lane	3	Т
Lane	4	
Lane	5	
Lane	6	

LOS E Circulation		
Capacity (vph)		
0	Lane 1	
300	Lane 2	
600	Lane 3	
0	Lane 4	
0	Lane 5	
0	Lane 6	
900	Row Capacity:	

Volume to		
Capacity Ratio		
TOTAL 0.456		

GO TO WORKSHEET 6 USER GUIDE

Volume/Capacity			
	<u>Ratio</u>	LOS	
	N/A	A	
	N/A	В	
0.00	- 0.28	С	
0.28	- 0.92	D	
0.92	- 1.00	E	
1.00	- 999	F	

OUTPUT RESULTS:

Circulation LOS:

D

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET No 1 INPUTS

Project Description

User Name: URS Corporation
Date: February 2, 2010

Airport: Manchester-Boston Regional Airport

Location: Shephard Road at Terminal

Project #:

Scenario: Forecast 2030 (4.5 MAP) Peak Hour

User Notes: Fifteen (15) Minute Peak Arrival Factor

Step 1: Enter Peak Hour Volumes (vph) *					
	Pk Hr		Mode		PEAK
Vehicle Types	Vols		%	Vols	HR VOLS
Autos	0		86%	387	387
Vans	0		12%	54	54
Buses	0		0%	0	0
Taxis	0		2%	9	9
Other	0		0%	0	0
TOTAL (vph)	0		100%	450	450

* Enter either actual volumes in the peak hour volume columns
OR mode split % AND total volume in the mode columns.
CURB_PLAN will use the column with the greater total volume.

 Step 2: Enter Average

 Dwell Time (sec/veh)

 Autos
 117.0

 Vans
 65.0

 Buses
 0.0

 Taxis
 91.0

 Other
 0.0

Step 3: Enter Average		
Veh Berth Space (feet)		
Autos	25	
Vans	36	
Buses	0	
Taxis	25	
Other	0	

Step 4: Enter Peak		
Surge/Arrival Factor		
Autos	1.10	
Vans	1.10	
Buses	0.00	
Taxis	1.10	
Other	0.00	

 Step 5: Enter Usable Frontage (feet)

 Linear Frontage:
 1015

 Unusable Frontage:
 Crosswalks
 60

 Doors
 0

 Other
 223

 Gate Concentration Factor**
 0.55
 range 0.5 to 0.9

 Total Effective Frontage (ft):
 275
 ** Default = 0.8

GO TO WORKSHEET 1 USER GUIDE

Step 6: Enter Curbfront Usage		
Sele	ect Number of Lanes:	3
Select Usage: 2 Lanes Usage		
L = Load/Unload	3 Lanes Usage	L,C,T
C = Circulation	4 Lanes Usage	
T = Through	5 Lanes Usage	
	6 Lanes Usage	

<Enter Usage Here

CALCULATE CURBFRONT LOS

CALCULATE VOLUME CALCULATE FRONTAGE

CALCULATE QUEUES

CALCULATE CIRCULATION LOS

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 2

FIND CURB FRONT LEVEL OF SERVICE - GIVEN VOLUMES AND FRONTAGE LENGTH

GO TO WORKSHEET 2 USER **GUIDE**

INPUTS FROM WORKSHEET 1

2	PEAK HOUR
h)	VOLUMES (vp
387	Autos
54	Vans
0	Buses
9	Taxis
0	Other
450	TOTAL

AVERAGE		
DWELL TIME (sec/veh)		
Autos	117	
Vans	65	
Buses	0	
Taxis	91	
Other	0	

Average Vehicle Berth Space (feet)		
Autos	25	
Vans	36	
Buses	0	
Taxis	25	
Other	0	

Lane 5: 0.00

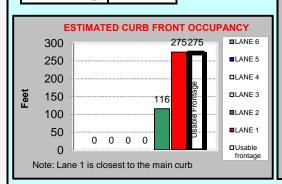
Lane 6: 0.00

OUTPUT RESULTS:

Peak Surge	e/Arrival
Fact	or
Autos	1.10
Vans	1.10
Buses	0.00
Taxis	1.10
Other	0.00

Frontage needed:		
(feet)		
346	Autos	
39	Vans	
0	Buses	
6	Taxis	
0	Other	
391	Total	

Usable frontage 275



Frontage Needed(ft):	391
Total Load/Unload Frontage (ft):	275
Effective/Usable Curb Length Ratio:	1.42
CURB FRONT LOS:	D
Density [pc/100ft](Range 0-4):	
Lane 1:	4.00
Lane 2:	1.68
Lane 3:	0.00
Lane 4:	0.00

Effective/Usable			
Curb Len	gth Ratio	LOS	
0.0	- 1.0	A	
1.0	- 1.1	В	
1.1	- 1.3	C	
1.3	- 1.7	D	
1.7	- 2.0	E	
2.0	- 999	F	

RETURN TO

INPUTS

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 3

FIND MAX VOLUMES FOR GIVEN FRONTAGE AND LEVEL OF SERVICE

GO TO WORKSHEET 3 USER GUIDE

INPUTS FROM WORKSHEET 1

PEAK HOUR VOLUMES (vph)	
Autos	387
Vans	54
Buses	0
Taxis	9
Other	0
TOTAL	450

Usable frontage 275

AVERAGE DWELL TIME (sec.	/veh)
Autos	117
Vans	65
Buses	0
Taxis	91
Other	0

Desired (future) Usable frontage 500

25
36
0
25
0

Peak Surge/A Factor	rrival
Autos	1.10
Vans	1.10
Buses	0
Taxis	1.1
Other	0

Frontage needed: (feet)	
346	Autos
39	Vans
0	Buses
6	Taxis
0	Other
391	Total

OII'	PDIIT	PESIII	TC.

Desired LOS:

Desired Effective Curb Length Ratio: 1.30

Desired Frontage: 500 Frontage Needed(ft): 650

Maximum Volumes* for Desired LOS & Desired Frontage

Autos: 567
Vans: 79
Buses: 0
Taxis: 13
Other: 0
TOTAL: 659

С

0.0 - 1.0 A 1.0 - 1.1 B 1.1 - 1.3 C 1.3 - 1.7 D 1.7 - 2.0 E 2.0 - 999 F

Effective/Usable
Curb Length Ratio LOS

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 4

FIND REQUIRED FRONTAGE GIVEN VOLUMES AND LEVEL OF SERVICE

GO TO WORKSHEET 4 USER GUIDE

INPUTS FROM WORKSHEET 1

PEAK HOUR	
VOLUMES (vph)	
Autos	387
Vans	54
Buses	0
Taxis	9
Other	0
TOTAL	450

AVERAGE	
DWELL TIME (sec/veh)	
Autos	117
Vans	65
Buses	0
Taxis	91
Other	C

-	
Average Vehic	:le
Berth Space (fe	et)
Autos	25
Vans	36
Buses	0
Taxis	25
Other	0

Frontage needed:		
(feet)		
346	Autos	
39	Vans	
0	Buses	
6	Taxis	
0 Other		
391	Total	

Usable frontage 275

Input Desired Level of Service (A-E): C

OUTPUT RESULTS:

Desired Effective Curb Length Ratio: 1.30
Frontage (ft) Required for Desired LOS: 301

Effective/Usable		
Curb Len	gth Ratio	<u>LOS</u>
0.0	- 1.0	Α
1.0	- 1.1	В
1.1	- 1.3	C
1.3	- 1.7	D
1.7	- 2.0	E
2.0	- 999	F

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 5
95th PERCENTILE QUEUE LENGTHS

GO TO WORKSHEET 5 USER GUIDE

INPUTS FROM WORKSHEET 1

PEAK HOUR		
VOLUMES (vph)		
Autos 387		
Vans	54	
Buses	0	
Taxis	9	
Other	0	
TOTAL	450	

AVERAGE	
DWELL TIME (sec/veh)	
Autos	117
Vans	65
Buses	0
Taxis	91
Other	0

Vehicle	Average
ace (feet)	Berth Spa
25	Autos
36	Vans
0	Buses
25	Taxis
0	Other

Average		
Arrivals pe	er second	
Autos	0.108	
Vans	0.015	
Buses	0.000	
Taxis	0.003	
Other	0.000	
TOTAL	0.125	
	•	

Net		
Average Arrivals		
Autos	12.578	
Vans	0.975	
Buses	0.000	
Taxis	0.228	
Other	0.000	
TOTAL	13.780	

Input Number of Approach Lanes 2

OUTPUT RESULTS: 95th Percentile

95th Percentile
Queue Length (ft)

Autos 475
Vans 108
Buses 0
Taxis 0
Other 0

Total Frontage Needed (Using Poisson) 583
Minus total available frontage parking 70TAL QUEUE per Lane 85

Airport Curbside Frontage Analysis, by URS Corp

WORKSHEET 6
CIRCULATION LOS (By Row)

INPUTS FROM WORKSHEET 1

PEAK HOUR		
VOLUMES (vph)		
Autos	387	
Vans	54	
Buses	0	
Taxis	9	
Other	0	
TOTAL	450	

	Lane	
	Usage	
Lane	1	L
Lane	2	С
Lane	3	Т
Lane	4	
Lane	5	
Lane	6	

lation	LOS E Circu
vph)	Capacity (
0	Lane 1
300	Lane 2
600	Lane 3
0	Lane 4
0	Lane 5
0	Lane 6
900	Row Capacity:

Volu	me to
Capacit	y Ratio
TOTAL	0.500

GO TO WORKSHEET 6 USER GUIDE

Volume/Ca	apacity	
	<u>Ratio</u>	LOS
	N/A	A
	N/A	В
0.00	- 0.28	С
0.28	- 0.92	D
0.92	- 1.00	E
1.00	- 999	F

OUTPUT RESULTS:

Circulation LOS:

D

MANCHESTER-BOSTON REGIONAL AIRPORT

Airport Master Plan Update

APPENDIX G Flight Explorer™ Data



Aircraft	<u> </u>	Oper	ations	Porce	untago
Category	Aircraft	Itinerant	Local	Itinerant	entage Local
, , , , , , , , , , , , , , , , , , ,	717200	1		0.00%	
	727200 737300	343 8,118		0.49% 11.51%	
	737400	1,364		1.93%	
	737500 737700	732		1.04% 21.02%	
	737800	14,833 17		0.02%	
	747400	2		0.00%	
	727EM1 737N17	5 59		0.01% 0.08%	
	757PW	2		0.00%	
	757RR	2		0.00%	
	767CF6 A300-622R	38 2,170		0.05% 3.08%	
Air Carrier	A319-131	811		1.15%	
	A320-211 A320-232	528 947		0.75% 1.34%	
	CL600	845		1.20%	
	CL601	887		1.26%	
	DC1010 DC1030	235 17		0.33% 0.02%	
	DC870	44		0.06%	
	DC910 DC93LW	134		0.00% 0.19%	
	DC95HW	415		0.19%	
	GV	3,892		5.52%	
	MD11GE MD81	7		0.00% 0.01%	
	MD83	2		0.00%	
UPS	757PW	236 236		0.33% 0.33%	
	757RR 1900D	1,508		0.33% 2.14%	
	BEC58P	133		0.19%	
	CIT3 CL600	35 52		0.05% 0.07%	
	CL601	1,710		2.42%	
	CNA172	2		0.00%	
	CNA441 CNA500	714		1.01% 0.00%	
	CNA750	37		0.05%	
	DHC6	4,623		6.55%	
	DHC8 EMB145	985 3,937		1.40% 5.58%	
Commuter / Air Taxi	EMB14L	1,107		1.57%	
	FAL20 GASEPF	598		0.01% 0.85%	
	GASEPV	3		0.00%	
	GII	2		0.00%	
	GIIB GIV	28		0.00% 0.04%	
	GV	3,270		4.64%	
	IA1125 LEAR25	21 5		0.03% 0.01%	
	LEAR35	111		0.16%	
	MU3001	223		0.32%	
	PA31 SF340	2,622		0.01% 3.72%	
	727200	29		0.04%	
	CIT3 CL600	43 449		0.06% 0.64%	
	CL601	34		0.04%	
	CNA500	449		0.64%	
	CNA510 CNA750	31 34		0.04% 0.05%	
GA Jet	EMB145	9		0.01%	
	FAL20 GIV	46 195		0.06% 0.28%	
	GV	143		0.28%	
	IA1125	63		0.09%	
	LEAR25 LEAR35	94 572		0.13% 0.81%	
	MU3001	681		0.96%	
	1900D CNA441	31 686		0.04% 0.97%	
GA Turboprop	DHC6	686 569		0.97%	
	DHC8	6		0.01%	
	HS748A BEC58P	1,101	604	0.01% 1.56%	18.95%
GA TEP	PA30	17		0.02%	10.00/0
	PA31	149		0.21%	
	CNA172 CNA206	1,536 752		2.18% 1.07%	
0.4.5==	CNA20T	9	_	0.01%	-
GA SEP	GASEPF GASEPV	458 1,934	2,584	0.65% 2.74%	81.05%
	PA28	912		1.29%	
	T34	9		0.01%	
	A109 B206L	3 20		0.00% 0.03%	
	BO105	11		0.02%	
Helo	H500D R22	3 37		0.00%	
	S76	17		0.05% 0.02%	
A 400-	SA350D	3		0.00%	
Military TOTA I	LEAR35	740 70,549	3,188	1.05%	
IOTAL		10,343	J, 100		

Calculation of Aircraft Fleet Mix on the Basis of Flight Explorer Data for CY 2009

	Number of	Percent of	
	Aircraft	Aircraft	3 times
Class of Aircraft	Operations	Operations	Class D
A & B	9,617	14%	
С	58,424	83%	
D	2,508	3.6%	11%
Mix Index =		93%	

Flight Explorer©, 2009. URS, 2009. Source:

Based on Flight Plan Data from May 2008 through April 2009. Notes:

Aircraft types indicated are Integrated Noise Model (INM) codes.

MANCHESTER-BOSTON REGIONAL AIRPORT

rport Master Plan Update



APPENDIX H DATA SUPPORTING TERMINAL IT DIRECTION

H.1 ROUTING PROTOCOL

OSPF is utilized in the existing core switch as a means of routing traffic between VLANs. Moving to a dual core switch configuration means that both of the core switches will be in OSPF area zero. The Master Plan team recommends a multi-interface trunked and channeled link between the core switches to guard against failure of a single link. OSPF will fail if a condition known as "discontiguous area zero" exists. A simpler alternative might be to move to Cisco proprietary Enhanced Interior Gateway Routing Protocol (EIGRP) as it is simpler to configure than OSPF and has more forgiving network architecture.

H.2 NETWORK ADDRESSING MASTER PLAN

In small networks, addressing is not much of a problem and often devices are addressed in an arbitrary manner. As networks scale, there is a need to regionalize addressing and maintain structure between network regions, VLAN assignments, and associated addressing. A good addressing master plan makes the network and traffic flows easy to understand as networks grow in size.

The Master Plan team recommends the development of a network addressing master plan. This plan should subdivide the RFC 1918 10.0.0.0 private addressing space into eight segments. The first segment is reserved for legacy networks which are occupied by current switches and devices at MHT. The second segment (10.32.0.0 through 10.63.0.0) is reserved as regional address space for up to 32 regions on the MHT campus. The remaining six ranges should be reserved for future use outside MHT property, potentially at other City sites. Each of these eight ranges should be summarized in routing tables. For example, all of the MHT networks summarize to an address of 10.32.0.0 with an eleven bit mask. Summarization also occurs on each of the 32 regions internal to MHT with a sixteen bit mask. These regions could be the existing terminal; new terminal; north, south, east, and west campuses; and others.

Each of the 32 MHT regions is mapped into 254 usable VLANs. Each VLAN is provided with a network address, 254 usable host addresses and a broadcast address. The second octet address will identify the region in which the traffic originated. The third octet address matches the VLAN number. The fourth octet contains network, host, and broadcast addresses. This structure keeps the network addressing simple and easy to understand. As the network scales into a larger layer, three regionalized architecture, it also supports automatic summarization of addresses in much the same way as post offices use zip codes.

Refer to the tables at the end of this appendix for additional information on addressing Master Plan.

H.3 PHASE 2 IMPROVEMENTS

As the campus network continues to scale, there are increasing requirements for the amount of fiber needed between access layer switches and the network core. The solution is to move away from the

"collapsed core" configuration implemented in the Phase 1 improvements into a three-tiered core, distribution, and access layer configuration. An example of this three-tiered architecture is shown in the tables at the end of this appendix.

When this occurs, new core switches would be deployed either in the terminal or in two different buildings on site. Existing terminal switches would be re-tasked as "red" and "blue" distribution switches and uplinked to the new core switches, as shown in the diagram. Pairs of red and blue distribution switches would then be deployed at each new facility or region to aggregate traffic from the regional access layer switches and uplink this traffic to the core.

The use of distribution switches allows uplinks from distribution to core to become fairly static. If new access layer switches are added in a region or major facility, they only require uplinks to their local distribution switches and there is no need to do anything to the infrastructure from distribution to core. As bandwidth needs increase, core uplinks can be increased from 1 gigabits per second (gb/s) to 10 gb/s, and soon to either 40 gb/s or 100 gb/s without adding fiber.

Supervisor engines (Routers) in the distribution switches also provide another function. VLANs that extend from the distribution layer of the network to the core do not exist in the regions (make sure to clear these from the trunks in each region and allow only the core to distribution VLANs on the core to distribution links). This forces traffic exiting the region to be route at layer three. By definition, flooded broadcast traffic such as broadcast storms will not cross a router by default, isolating this type of anomaly to a particular network region.

Power supplies for core and distribution switches should be sized to allow for single redundant operation. Where both emergency (generator) power and UPS power is available, it is advisable to power one power supply from the emergency source and the second power supply through a UPS. This allows the switch to continue uninterrupted operation during UPS maintenance.

Regionalizing the network also has bandwidth benefits. High bandwidth users, such as close circuit television system (CCTV) archive servers, can be located within the same region as the cameras that stream video to them. This way CCTV traffic stays local to each region unless someone in another region is actively viewing live or stored CCTV video.

H.4 ACCESS LAYER SWITCH CONFIGURATIONS

Stability of the network begins at the edge. Access layer switch ports should be configured with storm control, limiting the ingress of broadcast and multicast traffic to two percent of port bandwidth. This configuration monitors the amount of broadcast and multicast traffic entering the network and shuts down offending ports that exceed these thresholds. Ports can be configured to return to service after the offending traffic ceases or to require the port to be manually returned to service.

Access layer switch ports should also be configured to limit the number of MAC addresses supported by the port to one or two MAC addresses. This parameter prevents tenants and other network users from using Ethernet hubs which have been proven to introduce bridging loops in the network resulting in

broadcast storms. Bridge Protocol Data Unit Guard or BPDU Guard is also recommended on access layer ports to shut ports down on receipt of BPDU packets as these ports should not be participating in spanning tree. These are simple, non-intrusive configurations; however, they add significant stability to the network.

H.5 MULTICAST ROUTING

Multicast routing is of little concern with the size of the current network and with the improvements implemented in the Phase 1 recommendations. As the network continues to scale and video becomes more prevalent, Multicast routing should be implemented. The recommended protocol is Sparse Mode Protocol Independent Multicast (PIM). Sparse Mode PIM utilizes either core switches or server farm distribution switches as a rendezvous point for multicast streams. These streams terminate at the rendezvous point and only traverse the network when one or more users join a particular multicast group.

H.6 QUALITY OF SERVICE

Quality of Service (QoS) architecture is becoming increasingly important in today's multi-media networks. Services such as VoIP and Video are latency and jitter sensitive, requiring prioritization of traffic over other services such as web browsing and email. This is easily accomplished and fairly simple if applied in a uniform manner across the network.

QoS begins by establishing a trust boundary for traffic as it enters the network. This is typically done at the access port or server port where traffic enters the network. QoS markings on traffic from end devices may be trusted as in the case of VoIP telephones or replaced on devices such as Windows workstations. These markings are placed in the Ethernet header on each frame in a field known as Differentiated Service Code Point (DSCP)

Recommended traffic markings are as following:

VolP Bearer Traffic: DSCP Value EF (Express Forwarding)

Call Setup & Network Management Traffic: DSCP Value 31

Video Traffic including CCTV,

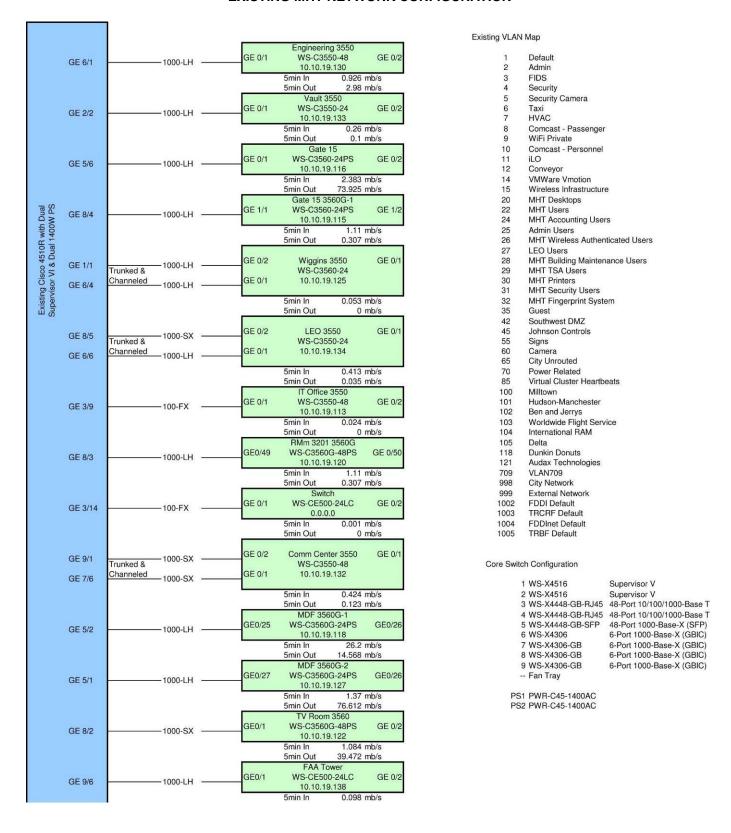
Internet Protocol Television (IPTV): DSCP Value 21

All other Traffic:
 DSCP Value 0 (Best effort)

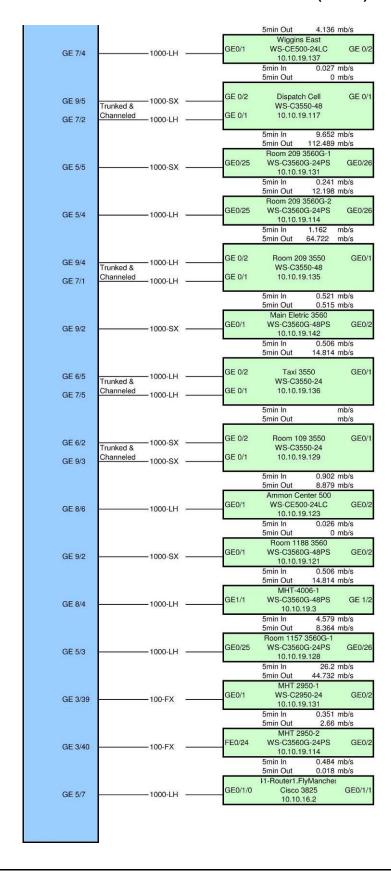
Output Queues on all switches should be configured with one priority queue for the express forwarding traffic. The remaining three classes of traffic are serviced using three weighted round robin queues which are serviced in DSCP priority. This arrangement provides front-of-the-line queuing for latency and jitter sensitive voice bearer traffic. The weighted round robin behavior of the remaining queues insures that all queues are serviced and that no traffic flow is starved.

The use of best effort delivery for all other traffic is often questioned. This type of traffic includes such things as web browser traffic, email, and moving files across the network. Most of this traffic is managed at a higher level by Transmission Control Protocol (TCP), which contains its own guaranteed delivery and re-send system.

EXISTING MHT NETWORK CONFIGURATION



EXISTING MHT NETWORK CONFIGURATION (CONT.)



NETWORK ADDRESSING MASTER PLAN MASTER NETWORKS

		reconstruction and a second					Pinto and						Process				1001	SN 2000			
Subnet	Location	Network	Defa		Subnet	Location	Network		It Range	5	Subnet	Location	Network		It Range	S	ubnet	Location	Network		It Range
			Subnets	Hosts/SN				Subnets	Hosts					Subnets	Hosts					Subnets	Hosts
0	Reserved Legacy	10.0.0.0	254	254	80	Remote Site 1	10.80.0.0	254	254		160	Remote Site 4	10.160.0.0	254	254		240	Remote Site 6	10.240.0.0	254	254
1	Reserved Legacy	10.1.0.0	254	254	81	Remote Site 1	10.81.0.0	254	254		161	Remote Site 4	10.161.0.0	254	254	5	241	Remote Site 6	10.241.0.0	254	254
2	Legacy Networks	10.2.0.0	254	254	82	Remote Site 1	10.82.0.0	254	254		162	Remote Site 4	10.162.0.0	254	254	1	242	Remote Site 6	10.242.0.0	254	254
3	Legacy Networks	10.3.0.0	254	254	83	Remote Site 1	10.83.0.0	254	254		163	Remote Site 4	10.163.0.0	254	254		243	Remote Site 6	10.243.0.0	254	254
4	Legacy Networks	10.4.0.0	254	254	84	Remote Site 1	10.84.0.0	254	254		164	Remote Site 4	10.164.0.0	254	254		244	Remote Site 6	10.244.0.0	254	254
5	Legacy Networks	10.5.0.0	254	254	85	Remote Site 1	10.85.0.0	254	254		165	Remote Site 4	10.165.0.0	254	254	Ę.	245	Remote Site 6	10.245.0.0	254	254
6	Legacy Networks	10.6.0.0	254	254	86	Remote Site 1	10.86.0.0	254	254		166	Remote Site 4	10.166.0.0	254	254		246	Remote Site 6	10.246.0.0	254	254
7	Legacy Networks	10.7.0.0	254	254	87	Remote Site 1	10.87.0.0	254	254		167	Remote Site 4	10.167.0.0	254	254		247	Remote Site 6	10.247.0.0	254	254
8	Legacy Networks	10.8.0.0	254	254	88	Remote Site 1	10.88.0.0	254	254		168	Remote Site 4	10.168.0.0	254	254		248	Remote Site 6	10.248.0.0	254	254
9	Legacy Networks	10.9.0.0	254	254	89	Remote Site 1	10.89.0.0	254	254		169	Remote Site 4	10.169.0.0	254	254	Ū	249	Remote Site 6	10.249.0.0	254	254
10	Legacy Networks	10.10.0.0	254	254	90	Remote Site 1	10.90.0.0	254	254		170	Remote Site 4	10.170.0.0	254	254	2	250	Remote Site 6	10.250.0.0	254	254
11	Legacy Networks	10.11.0.0	254	254	91	Remote Site 1	10.91.0.0	254	254		171	Remote Site 4	10.171.0.0	254	254		251	Remote Site 6	10.251.0.0	254	254
12	Legacy Networks	10.12.0.0	254	254	92	Remote Site 1	10.92.0.0	254	254		172	Remote Site 4	10.172.0.0	254	254		252	Remote Site 6	10.252.0.0	254	254
13	Legacy Networks	10.13.0.0	254	254	93	Remote Site 1	10.93.0.0	254	254		173	Remote Site 4	10.173.0.0	254	254		253	Remote Site 6	10.253.0.0	254	254
14	Legacy Networks	10.14.0.0	254	254	94	Remote Site 1	10.94.0.0	254	254		174	Remote Site 4	10.174.0.0	254	254	, į	254	Remote Site 6	10.254.0.0	254	254
15	Legacy Networks	10.15.0.0	254	254	95	Remote Site 1	10.95.0.0	254	254		175	Remote Site 4	10.175.0.0	254	254	3.					
16	Legacy Networks	10.16.0.0	254	254	96	Remote Site 2	10.96.0.0	254	254		176	Remote Site 4	10.176.0.0	254	254						
17	Legacy Networks	10.17.0.0	254	254	97	Remote Site 2	10.97.0.0	254	254		177	Remote Site 4	10.177.0.0	254	254						
18	Legacy Networks	10.18.0.0	254	254	98	Remote Site 2	10.98.0.0	254	254		178	Remote Site 4	10.178.0.0	254	254	EIC	GRP Sur	nmarization Notes:			
19	Legacy Networks	10.19.0.0	254	254	99	Remote Site 2	10.99.0.0	254	254		179	Remote Site 4	10.179.0.0	254	254						
20	Legacy Networks	10.20.0.0	254	254	100	Remote Site 2	10.100.0.0	254	254		180	Remote Site 4	10.180.0.0	254	254	All	Address	es Summarize to 10.	0.0.0 with an 8-bit ma	sk	
21		10.21.0.0	254	254	101	Remote Site 2	10.101.0.0	254	254			Remote Site 4	10.181.0.0	254	254						
22	Legacy Networks	10.22.0.0	254	254	102	Remote Site 2	10.102.0.0	254	254		182	Remote Site 4	10.182.0.0	254	254	Ea	ch of eia	ht major regions sum	marize to 10.x.0.0 with	n an 11-bit mas	sk
23		10.23.0.0	254	254	103	Remote Site 2	10.103.0.0	254	254			Remote Site 4	10.183.0.0	254	254	750057					12001
24		10.24.0.0	254	254	104	Remote Site 2	10.104.0.0	254	254			Remote Site 4	10.184.0.0	254	254		1	10.0.0.0 / 11			
25		10.25.0.0	254	254	105	Remote Site 2	10.105.0.0	254	254			Remote Site 4	10.185.0.0	254	254			10.32.0.0 / 11			
26	Legacy Networks	10.26.0.0	254	254	106	Remote Site 2	10.106.0.0	254	254		186	Remote Site 4	10.186.0.0	254	254			10.64.0.0 / 11			
27	Legacy Networks	10.27.0.0	254	254	107	Remote Site 2	10.107.0.0	254	254		187	Remote Site 4	10.187.0.0	254	254		4	10.96.0.0 / 11			
28	Legacy Networks	10.28.0.0	254	254	108	Remote Site 2	10.108.0.0	254	254		188	Remote Site 4	10.188.0.0	254	254			10.128.0.0 / 11			
29	Legacy Networks	10.29.0.0	254	254	109	Remote Site 2	10.109.0.0	254	254		189	Remote Site 4	10.189.0.0	254	254		6	10.160.0.0 / 11			
30	Legacy Networks	10.30.0.0	254	254	110	Remote Site 2	10.110.0.0	254	254		190	Remote Site 4	10.190.0.0	254	254		7	10.192.0.0 / 11			
31	Reserved Legacy	10.31.0.0	254	254	111	Remote Site 2	10.111.0.0	254	254		191	Remote Site 4	10.191.0.0	254	254		8	10.224.0.0 / 11			
32	Existing Terminal	10.32.0.0	254	254	112	Remote Site 2	10.112.0.0	254	254		192	Remote Site 5	10.192.0.0	254	254						
33	Future Terminal	10.33.0.0	254	254	113	Remote Site 2	10.113.0.0	254	254		193	Remote Site 5	10.193.0.0	254	254	Ea	ch of the	32 class B networks	in a region will summ	arize with a 16	-bit mask
34	North Campus	10.34.0.0	254	254	114	Remote Site 2	10.114.0.0	254	254			Remote Site 5	10.194.0.0	254	254				Š		
35	South Campus	10.35.0.0	254	254	115	Remote Site 2	10.115.0.0	254	254			Remote Site 5	10.195.0.0	254	254	Ea	ch of the	254 Class C networ	ks in an area summari	zes to 10.x.x.0	/24
36	East Campus	10.36.0.0	254	254	116	Remote Site 2	10.116.0.0	254	254		196	Remote Site 5	10.196.0.0	254	254						
37	West Campus	10.37.0.0	254	254	117	Remote Site 2	10.117.0.0	254	254		197	Remote Site 5	10.197.0.0	254	254						
38	Future Facility	10.38.0.0	254	254	118	Remote Site 2	10.118.0.0	254	254			Remote Site 5	10.198.0.0	254	254						
39	Future Facility	10.39.0.0	254	254	119	Remote Site 2	10.119.0.0	254	254		199	Remote Site 5	10.199.0.0	254	254						
40	Future Facility	10.40.0.0	254	254	120	Remote Site 2	10.120.0.0	254	254			Remote Site 5	10.200.0.0	254	254						
41	Spare	10.41.0.0	254	254	121	Remote Site 2	10.121.0.0	254	254			Remote Site 5	10.201.0.0	254	254						
42	Spare	10.42.0.0	254	254	122	Remote Site 2	10.122.0.0	254	254			Remote Site 5	10.202.0.0	254	254						
43	Spare	10.43.0.0	254	254	123	Remote Site 2	10.123.0.0	254	254			Remote Site 5	10.203.0.0	254	254						
44	Server Farm Term	10.44.0.0	254	254	124	Remote Site 2	10.124.0.0	254	254		204	Remote Site 5	10.204.0.0	254	254						
45	Server Farm ARFF	10.45.0.0	254	254	125	Remote Site 2	10.125.0.0	254	254			Remote Site 5	10.205.0.0	254	254						
46	Spare	10.46.0.0	254	254	126	Remote Site 2	10.126.0.0	254	254			Remote Site 5	10.206.0.0	254	254						
47	Spare	10.47.0.0	254	254	127	Remote Site 2	10.127.0.0	254	254			Remote Site 5	10.207.0.0	254	254						
48	Spare	10.48.0.0	254	254	128	Remote Site 3	10.128.0.0	254	254		0.000	Remote Site 5	10.208.0.0	254	254						
49	Spare	10.49.0.0	254	254	129	Remote Site 3	10.129.0.0	254	254		_	Remote Site 5	10.209.0.0	254	254						
- 50	Spare	10.50.0.0	254	254	130	Remote Site 3	10.130.0.0	254	254			Remote Site 5	10.210.0.0	254	254						
51	Spare	10.51.0.0	254	254	131	Remote Site 3	10.131.0.0	254	254			Remote Site 5	10.211.0.0	254	254						
52	Spare	10.52.0.0	254	254	132	Remote Site 3	10.132.0.0	254	254			Remote Site 5	10.212.0.0	254	254						
53	Spare	10.53.0.0	254	254	133	Remote Site 3	10.133.0.0	254	254		213	Remote Site 5	10.213.0.0	254	254						
54	Spare	10.54.0.0	254	254	134	Remote Site 3	10.134.0.0	254	254			Remote Site 5	10.214.0.0	254	254						
55	Spare	10.55.0.0	254	254	135	Remote Site 3	10.135.0.0	254	254		215	Remote Site 5	10.215.0.0	254	254						
56	Spare	10.56.0.0	254	254	136	Remote Site 3	10.136.0.0	254	254			Remote Site 5	10.216.0.0	254	254						
57	Spare	10.57.0.0	254	254	137	Remote Site 3	10.137.0.0	254	254			Remote Site 5	10.217.0.0	254	254						
58	Spare	10.58.0.0	254	254	138	Remote Site 3	10.138.0.0	254	254			Remote Site 5	10.218.0.0	254	254						
59	Spare	10.59.0.0	254	254	139	Remote Site 3	10.139.0.0	254	254			Remote Site 5	10.219.0.0	254	254						
60	Spare	10.60.0.0	254	254	140	Remote Site 3	10.140.0.0	254	254			Remote Site 5	10.220.0.0	254	254						
61	Spare	10.61.0.0	254	254	141	Remote Site 3	10.141.0.0	254	254			Remote Site 5	10.221.0.0	254	254						
62	Spare	10.62.0.0	254	254	142	Remote Site 3	10.142.0.0	254	254			Remote Site 5	10.222.0.0	254	254						
63	Spare	10.63.0.0	254	254	143	Remote Site 3	10.143.0.0	254	254			Remote Site 5	10.223.0.0	254	254						
64		10.64.0.0	254	254	144	Remote Site 3	10.144.0.0	254	254			Remote Site 6	10.224.0.0	254	254						
65	Remote Site 1	10.65.0.0	254	254	145	Remote Site 3	10.145.0.0	254	254			Remote Site 6	10.225.0.0	254	254						
66	Remote Site 1	10.66.0.0	254	254	146	Remote Site 3	10.146.0.0	254	254			Remote Site 6	10.226.0.0	254	254						
67	Remote Site 1	10.67.0.0	254	254	147	Remote Site 3	10.147.0.0	254	254			Remote Site 6	10.227.0.0	254	254						
68	Remote Site 1	10.68.0.0	254	254	148	Remote Site 3	10.147.0.0	254	254			Remote Site 6	10.228.0.0	254	254						
69	Remote Site 1	10.68.0.0	254	254	148	Remote Site 3	10.148.0.0	254	254			Remote Site 6	10.229.0.0	254	254						
70		10.69.0.0	254	254	150	Remote Site 3	10.149.0.0	254	254			Remote Site 6	10.229.0.0	254	254						
		Date Statement State Sta										approximation to the second				8		2027	No. No. Service	9.5 65665	
71	Remote Site 1	10.71.0.0	254	254	151	Remote Site 3	10.151.0.0	254	254			Remote Site 6	10.231.0.0	254	254	1		Boston Ma	nchester Regio	nal Airpor	t
72	Remote Site 1	10.72.0.0	254	254	152	Remote Site 3	10.152.0.0	254	254			Remote Site 6	10.232.0.0	254	254						
73	Remote Site 1	10.73.0.0	254	254	153	Remote Site 3	10.153.0.0	254	254			Remote Site 6	10.233.0.0	254	254	_		Propo	sed IP Addressing	y rian	
74	Remote Site 1	10.74.0.0	254	254	154	Remote Site 3	10.154.0.0	254	254			Remote Site 6	10.234.0.0	254	254			10 ST 00 STORE - 12	2002		
75	Remote Site 1	10.75.0.0	254	254	155	Remote Site 3	10.155.0.0	254	254			Remote Site 6	10.235.0.0	254	254			Network Address: 10	0.0.0.0		
76		10.76.0.0	254	254	156	Remote Site 3	10.156.0.0	254	254			Remote Site 6	10.236.0.0	254	254						
77	Remote Site 1	10.77.0.0	254	254	157	Remote Site 3	10.157.0.0	254	254			Remote Site 6	10.237.0.0	254	254					turnilander o	
78		10.78.0.0	254	254	158	Remote Site 3	10.158.0.0	254	254			Remote Site 6	10.238.0.0	254	254					SHEET 1 of 1	
79	Remote Site 1	10.79.0.0	254	254	159	Remote Site 3	10.159.0.0	254	254		239	Remote Site 6	10.239.0.0	254	254						

EXISTING TERM (32)

T:						_					IERW	,~	-,		-	-				
	Existing			10.32	2.0.0/				ddressing Plan						9					
VLAN	Function	11.	Hosts	Broadcast		VLAN	Function		1	Broadcast	VLAN	N Fu		Hosts	Broadcast		VLAN Function	Network	Hosts	Broadcast
4	Core Uplinks Default	10.32.0.0	10.32.0.1 to 10.32.0.254 10.32.1.1 to 10.32.1.254	10.32.0:255		- 25	Core Uplinks City Unrouted	10.32.64.0	10.32.64.1 to 10.32.64.254 10.32.65.1 to 10.32.65.254	10.32.64.255	100	Fu	Core Uplinks 10.32.128.0 dure 10.32.129.0	10.32.128.1 to 10.32.128.254 10.32.129.1 to 10.32.129.254	10.32.128.255		Core Uplinks	10.32.192.0	10.32.192.1 to 10.32.192.254 10.32.193.1 to 10.32.193.254	10.32.192.255
	Admin					66	-													
2		10.32.2.0	10.32.2.1 to 10.32.2.254	10.32.2.255				10.32.66.0	10.32.66.1 to 10.32.66.254	10.32.66.255	130	1		10.32.130.1 to 10.32.130.254	10.32.130.255		194 Future	10.32,194.0	10.32.194.1 to 10.32.194.254	10.32.194.255
3	FID8	10.32.3.0	10.32.3.1 to 10.32.3.254	10.32.3.255		67	Future	10.32.67.0	10.32.67.1 to 10.32.67.254	10.32.67.255	131	Fu	ture 10.32.131.0	10.32.131.1 to 10.32.131.254	10.32.131.255		195 Future	10.32.195.0	10.32.195.1 to 10.32.195.254	10.32.195.255
4	Security	10.32.4.0	10.32.4.1 to 10.32.4.254	10.32.4.255		68	Future	10.32.68.0	10.32.68.1 to 10.32.68.254	10.32.68.255	132	Fu	iture 10.32.132.0	10.32.132.1 to 10.32.132.254	10.32.132.255		196 Future	10.32,196.0	10.32.196.1 to 10.32.196.254	10.32.196.255
5	Security Camera	10.32.5.0	10.32.5.1 to 10.32.5.254	10.32.5.255		69	Future	10.32.69.0	10.32.69.1 to 10.32.69.254	10.32.69.255	133	Fu	ture 10.32.133,0	10.32.133.1 to 10.32.133.254	10.32.133.255		197 Future	10.32.197.0	10.32.197.1 to 10.32.197.254	10.32.197.255
6	Taxi	10.32.6.0	10.32.6.1 to 10.32.6.254	10.32.6.255		70	Power Related	10.32.70.0	10.32.70.1 to 10.32.70.254	10.32,70.255	134	Fu	ture 10.32.134.0	10.32.134.1 to 10.32.134.254	10.32.134,255		198 Future	10.32,198.0	10.32.198,1 to 10.32.198,254	10.32.198.255
7	HVAC	10.32.7.0	10.32.7.1 to 10.32.7.254	10.32.7.255		71	Future	10.32.71.0	10.32.71.1 to 10.32.71.254	10.32.71.255	135	Fu	iture 10.32.135.0	10.32.135.1 to 10.32.135.254	10.32.135.255		199 Future	10.32.199.0	10.32.199.1 to 10.32.199.254	10.32.199.255
8	Comcast - Passenger	10.32.8.0	10.32.8.1 to 10.32.8.254	10.32.8.255		72	Future	10.32.72.0	10.32.72.1 to 10.32.72.254	10.32.72.255	136	Fu	iture 10.32,136.0	10.32.136.1 to 10.32.136.254	10.32.136.255		200 Future	10.32.200.0	10.32.200.1 to 10.32.200.254	10.32.200.255
9	WiFi Private	10.32.9.0	10.32.9.1 to 10.32.9.254	10.32.9.255		73	Future	10.32.73.0	10.32.73.1 to 10.32.73.254	10.32.73.255	137	Fu	iture 10.32.137.0	10.32.137.1 to 10.32.137.254	10.32.137.255		201 Future	10.32.201.0	10.32.201.1 to 10.32.201.254	10.32.201.255
10	Comcast - Personnel	10.32.10.0	10.32.10.1 to 10.32.10.254	10.32.10.127		74	Future	10.32.74.0	10.32.74.1 to 10.32.74.254	10.32,74,255	138	Fu	ture 10.32.138.0	10.32.138.1 to 10.32.138.254	10.32.138.255		202 Future	10.32.202.0	10.32.202.1 to 10.32.202.254	10.32.202.255
11	110	10.32.11.0	10 32 11 1 to 10 32 11 254	10.32.11.255			Future	10.32.75.0	10.32.75.1 to 10.32.75.254	10.32.75.255	139			10.32.139.1 to 10.32.139.254	10.32.139.255		203 Future	10.32.203.0	10.32.203.1 to 10.32.203.254	10.32.203.255
12	2	10.32.12.0	10.32.12.1 to 10.32.12.254	10.32.12.255			Future	10.32.76.0	10.32.76.1 to 10.32.76.254	10.32.76.255	140	Y	dure 10.32.140.0	10.32.140.1 to 10.32.140.254			204 Future	10.32.204.0	10.32.204.1 to 10.32.204.254	10.32.204.255
	Conv ey or														10.32.140.255					
13	Future	10.32.13.0	10.32.13.1 to 10.32.13.254	10.32.13.255		77	Future	10.32.77.0	10.32.77.1 to 10.32.77.254	10.32.77.255	141	J.		10.32.141.1 to 10.32.141.254	10.32.141.255		205 Future	10.32.205.0	10.32.205.1 to 10.32.205.254	10.32.205.255
14	VMWare Vmotion	10.32.14.0	10.32.14.1 to 10.32.14.254	10.32.14.255		78	Future	10.32.78.0	10.32.78.1 to 10.32.78.254	10.32,78.255	142	Fu	ture 10.32.142.0	10.32.142.1 to 10.32.142.254	10.32.142.255		206 Future	10.32.206.0	10.32.206.1 to 10.32.206.254	10.32.206.255
15	Wireless Infrastructure	10.32.15.0	10.32.15.1 to 10.32.15.126	10.32.15.127		79	Future	10.32.79.0	10.32.79.1 to 10.32.79.254	10.32.79.255	143	Fu	iture 10.32.143.0	10.32.143.1 to 10.32.143.254	10.32.143.255		207 Future	10.32.207.0	10.32.207.1 to 10.32.207.254	10.32.207.255
16	Future	10.32.16.0	10.32.16.1 to 10.32.16.254	10.32.16.255		80	Future	10.32.80.0	10.32.80.1 to 10.32.80.254	10.32.80.255	144	Fu	ture 10.32.144.0	10.32.144.1 to 10.32.144.254	10.32.144.255		208 Future	10.32.208.0	10.32.208.1 to 10.32.208.254	10.32.208.255
17	Future	10.32.17.0	10.32.17.1 to 10.32.17.254	10.32.17.255		81	Future	10.32,81,0	10.32.81.1 to 10.32.81.254	10.32.81.255	145	Fu	ture 10.32.145.0	10.32.145.1 to 10.32.145.254	10.32.145.255		209 Future	10.32.209.0	10.32.209.1 to 10.32.209.254	10.32.209.255
18	Future	10.32.18.0	10.32.18.1 to 10.32.18.254	10.32,18,255		82	Future	10.32.82.0	10.32.82.1 to 10.32.82.254	10.32.82.255	146	Fu	iture 10.32.146.0	10.32.146.1 to 10.32.146.254	10.32.146.255	ŀ	210 Future	10.32.210.0	10.32.210.1 to 10.32.210.254	10.32.210.255
19	Future	10.32.19.0	10.32.19.1 to 10.32.19.254	10.32.19.255		83	Future	10.32.83.0	10.32.83.1 to 10.32.83.254	10.32.83.255	147	Fu	iture 10.32.147.0	10.32.147.1 to 10.32.147.254	10.32.147.255		211 Future	10.32.211.0	10.32.211.1 to 10.32.211.254	10.32.211.255
20	MHT Desktops	10.32.20.0	10.32.20.1 to 10.32.20.254	10.32.20.255		84	Future	10.32.84.0	10.32.84.1 to 10.32.84.254	10.32.84.255	148	Fu	iture 10.32.148.0	10.32.148.1 to 10.32.148.254	10.32.148.255		212 Future	10.32.212.0	10.32.212.1 to 10.32.212.254	10.32.212.255
21	Future	10.32.21.0	10.32.21.1 to 10.32.21.254	10.32.21.255			Virtual Cluster Heartbea	10.32.85.0	10.32.85.1 to 10.32.85.254	10.32.85.255		Fu		10.32.149.1 to 10.32.149.254	10.32.149.255		213 Future	10.32.213.0	10.32.213.1 to 10.32.213.254	10.32.213.255
22	MHT Users	10.32.22.0	10.32.22.1 to 10.32.22.126	10.32.22.127			Future		10.32.86.1 to 10.32.86.254	10.32.86.255		Fu		10.32.150.1 to 10.32.150.254	10.32.150.255		214 Future	10.32.214.0	10.32.214.1 to 10.32.214.254	10.32.214.255
						87					6									
23	Future	10.32.23.0	10.32.23.1 to 10.32.23.254	10.32.23.255				10.32.87.0	10.32.87.1 to 10.32.87.254	10.32.87.255	151	Y		10.32.151.1 to 10.32.151.254	10.32.151.255		215 Future	10.32.215.0	10.32.215.1 to 10.32.215.254	10.32.215.255
24	MHT Accounting Users	10.32.24.0	10.32.24.1 to 10.32.24.254	10.32.24.255		88	Future	10.32.88.0	10.32.88.1 to 10.32.88.254	10.32.88.255	152	Fu	sture 10.32.152.0	10.32.152.1 to 10.32.152.254	10.32.152.255		216 Future	10.32.216.0	10.32.216.1 to 10.32.216.254	10.32.216.255
25	Admin Users	10.32.25.0	10.32.25.1 to 10.32.25.254	10.32.25.255		89	Future	10.32.89.0	10.32.89.1 to 10.32.89.254	10.32.89.255	153	Fu	ture 10.32.153,0	10.32.153.1 to 10.32.153.254	10.32.153.255		217 Future	10.32.217.0	10.32.217.1 to 10.32.217.254	10.32.217.255
26	MHT Wireless Authenticated Users	10.32.26.0	10.32.26.1 to 10.32.26.254	10.32.26.255		90	Future	10.32.90.0	10.32.90.1 to 10.32.90.254	10.32.90.255	154	Fu	ture 10.32.154.0	10.32.154.1 to 10.32.154.254	10.32.154,255		218 Future	10.32.218.0	10.32.218,1 to 10.32.218.254	10.32.218.255
27	LEO Users	10.32.27.0	10.32.27.1 to 10.32.27.254	10.32.27.255		91	Future	10.32.91.0	10.32.91.1 to 10.32.91.254	10.32.91.255	155	Fu	iture 10.32.155.0	10.32.155.1 to 10.32.155.254	10.32.155.255		219 Future	10.32.219.0	10.32.219.1 to 10.32.219.254	10.32.219.255
28	MHT Building Maintenance Users	10.32.28.0	10.32.28.1 to 10.32.28.254	10.32.28.255		92	Future	10.32.92.0	10.32.92.1 to 10.32.92.254	10.32.92.255	158	Fu	sture 10.32.156.0	10.32.156.1 to 10.32.156.254	10.32.156.255		220 Future	10.32.220.0	10.32.220.1 to 10.32.220.254	10.32.220.255
29	MHT TSA Users	10.32.29.0	10.32.29.1 to 10.32.29.254	10.32.29.255		93	Future	10.32.93,0	10.32.93.1 to 10.32.93.254	10.32.93.255	157	Fu	ture 10.32.157.0	10.32.157.1 to 10.32.157.254	10.32.157.255		221 Future	10.32.221.0	10.32.221.1 to 10.32.221.254	10.32.221.255
30	MHT Printers	10.32.30.0	10.32.30.1 to 10.32.30.254	10.32.30.255		94	Future	10.32.94.0	10.32.94.1 to 10.32.94.254	10.32.94,255	158	Fu	ture 10.32.158.0	10.32.158.1 to 10.32.158.254	10.32.158.255		222 Future	10.32.222.0	10.32.222.1 to 10.32.222.254	10.32.222.255
31	MHT Security Users	10.32.31.0	10.32.31.1 to 10.32.31.254	10.32.31.127		95	Future	10.32.95.0	10.32.95.1 to 10.32.95.254	10.32.95.255	159	Fu	iture 10.32.159.0	10.32.159.1 to 10.32.159.254	10.32.159.255		223 Future	10.32.223.0	10.32.223.1 to 10.32.223.254	10.32.223.255
32	MHT Fingerprint System	10.32.32.0	10.32.32.1 to 10.32.32.254	10.32.32.127		96	Future	10.32.96.0	10.32.96.1 to 10.32.96.254	10.32.96.255	160	Fu	iture 10.32.160.0	10.32.160.1 to 10.32.160.254	10.32.160.255		224 Future	10.32.224.0	10.32.224.1 to 10.32.224.254	10.32.224.255
33	Guest	10.32.33.0	10.32.33.1 to 10.32.33.254	10.32.33.127		97	Future	10.32.97.0	10.32.97.1 to 10.32.97.254	10.32.97.255	161	Fu	iture 10.32.161.0	10.32.161.1 to 10.32.161.254	10.32.161.255		225 Future	10.32.225.0	10.32.225.1 to 10.32.225.254	10.32.225.255
34	Future	10.32.34.0	10.32.34.1 to 10.32.34.254	10.32.34.127		98			10.32.98.1 to 10.32.98.254	10.32.98.255		Fu		10.32.162.1 to 10.32.162.254	10.32.162.255		226 Future	10.32.226.0	10.32.226.1 to 10.32.226.254	10.32.226.255
35	Future	10.32.35.0	10.32.35.1 to 10.32.35.254	10.32.35.127		99		10.32.99.0	10.32.99.1 to 10.32.99.254	10.32.99.255	163		sture 10.32.163.0	10.32.163.1 to 10.32.163.254	10.32.163.255		227 Future	10.32.227.0	10.32.227.1 to 10.32.227.254	10.32.227.255
30											n e	Y								
36	Future	10.32.36.0	10.32.36.1 to 10.32.36.254	10.32.36.127		100			10.32.100.1 to 10.32.100.254	10.32.100.255		Fu		10.32.164.1 to 10.32.164.254	10.32.164.255		228 Future	10.32.228.0	10.32.228.1 to 10.32.228.254	10.32.228.255
37	Future	10.32.37.0	10.32.37.1 to 10.32.37.254	10.32.37.127			Hudson-Manchester	10.32.101.0	10.32.101.1 to 10.32.101.254	10.32.101.255	165	0		10.32.165.1 to 10.32.165.254	10.32.165.255		229 Future	10.32.229.0	10.32.229.1 to 10.32.229.254	10.32.229.255
38	Future	10.32.38.0	10.32.38.1 to 10.32.38.254	10.32.38.127		102	Ben and Jerry's	10.32.102.0	10.32.102.1 to 10.32.102.254	10.32.102.255	166	3	ture 10.32.166.0	10.32.166.1 to 10.32.166.254	10.32.166.255		230 Future	10.32.230.0	10.32.230.1 to 10.32.230.254	10.32.230.255
39	Future	10.32.39.0	10.32.39.1 to 10.32.39.254	10.32.39.127		103	Worldwide Flight Svc	10.32.103.0	10.32.103.1 to 10.32.103.254	10.32.103.255	167	Fu	ture 10.32.167.0	10.32.167.1 to 10.32.167.254	10.32.167.255		231 Future	10.32.231.0	10.32.231.1 to 10.32.231.254	10.32.231.255
40	Future	10.32.40.0	10.32.40.1 to 10.32.40.254	10.32.40.127		104	International RAM	10.32.104.0	10.32.104.1 to 10.32.104.254	10.32,104.255	168	Fu	ture 10.32,168.0	10.32.168.1 to 10.32.168.254	10.32.168.255		232 Future	10.32.232.0	10.32.232.1 to 10.32.232.254	10.32.232.255
41	Future	10.32.41.0	10.32.41.1 to 10.32.41.254	10.32.41.255		105	Delta	10.32.105.0	10.32.105.1 to 10.32.105.254	10.32.105.255	169	Fu	ture 10.32.169.0	10.32.169.1 to 10.32.169.254	10.32.169.255		233 Future	10.32.233.0	10.32.233.1 to 10.32.233.254	10.32.233.255
42	Southwest DMZ	10.32.42.0	10.32.42.1 to 10.32.42.254	10.32.42.255		106	Future	10.32.106.0	10.32.106.1 to 10.32.106.254	10.32.106.255	170	Fu	ture 10.32.170.0	10.32.170.1 to 10.32.170.254	10.32.170.255	İ	234 Future	10.32.234.0	10.32.234.1 to 10.32.234.254	10.32.234.255
43	Future	10.32.43.0	10.32.43.1 to 10.32.43.254	10.32.43.255		107	Future	10.32.107.0	10.32.107.1 to 10.32.107.254	10.32.107.255	171	Fu	ture 10.32.171.0	10.32.171.1 to 10.32.171.254	10.32.171.255		235 Future	10.32.235.0	10.32.235.1 to 10.32.235.254	10.32.235.255
44	Future	10.32.44.0	10.32.44.1 to 10.32.44.254	10.32.44.255		108	Future	10.32.108.0	10.32.108.1 to 10.32.108.254	10.32,108.255	172	Fu	sture 10.32.172.0	10.32.172.1 to 10.32.172.254	10.32.172.255		236 Future	10.32.236.0	10.32.236.1 to 10.32.236.254	10.32.236.255
45	Johnson Cantrols	10.32.45.0	10.32.45.1 to 10.32.45.254	10.32.45.255		109	Future	10.32.109.0	10.32.109.1 to 10.32.109.254	10.32.109.255	173	Fu	iture 10.32.173,0	10.32.173.1 to 10.32.173.254	10.32.173.255	ŀ	237 Future	10.32.237.0	10.32.237.1 to 10.32.237.254	10.32.237.255
46	Future	10.32.46.0	10.32.46.1 to 10.32.46.254	10.32.46.255		110		10.32.110.0	10.32.110.1 to 10.32.110.254	10.32.110.255	174	Jan .	and the second second	10.32.174.1 to 10.32.174.254	10.32.174,255	F	238 Future	10.32.238.0	10.32.238.1 to 10.32.238.254	10.32.238.255
j.	Future	10.32.47.0		10.32.47.255		111			10.32.111.1 to 10.32.111.254	10.32.111.255		31		10.32.175.1 to 10.32.175.254	10.32.175.255		239 Future	10.32.239.0	10.32.239.1 to 10.32.239.254	10.32.239.255
	Future		10.32.48.1 to 10.32.48.254	10.32.48.255		112				10.32.112.255	176	Y			10.32.176.255		240 Future		10.32.240.1 to 10.32.240.254	10.32.240.255
	Future	10.32.49.0	10.32.49.1 to 10.32.49.254	10.32.49.255			Future	1110111000000000		10.32.113.255				10.32.177.1 to 10.32.177.254	10.32.177.255		241 Future		10.32.241.1 to 10.32.241.254	
		Accessed to							reserve and a server a						Augustania Property				10.32.242.1 to 10.32.242.254	
	Future			10.32,50.255		114				10.32.114.255	178	3			10.32.178.255		242 Future			
	Future		10.32.51.1 to 10.32.51.254	10.32.51.255		115			10.32.115.1 to 10.32.115.254		179	Y		10.32.179.1 to 10.32.179.254		ŀ	243 Future		10.32.243.1 to 10.32.243.254	
52	Future	10.32.52.0	10.32.52.1 to 10.32.52.254	10.32.52.255		116	Future			10.32.116.255	180	Fu		10.32.180.1 to 10.32.180.254	10.32.180.255		244 Future	10.32.244.0	10.32.244.1 to 10.32.244.254	
53	Future	10.32.53.0	10.32.53.1 to 10.32.53.254	10.32.53.255		117	Future	10.32.117.0	10.32.117.1 to 10.32.117.254	10.32.117.255	181	Fu	ture 10.32.181.0	10.32.181.1 to 10.32.181.254	10.32.181.255		245 Future	10.32.245.0	10.32.245.1 to 10.32.245.254	10.32.245.255
54	Future	10.32.54.0	10.32.54.1 to 10.32.54.254	10.32,54.255		118	Dunkin Donuts	10.32.118.0	10.32.118.1 to 10.32.118.254	10.32.118.255	182	Fu	ture 10.32.182.0	10.32.182.1 to 10.32.182.254	10.32.182.255	İ	246 Future	10.32.246.0	10.32.246.1 to 10.32.246.254	10.32.246.255
55	Signs	10.32.55.0	10.32.55.1 to 10.32.55.254	10.32.55.255	1	119	Audax Technologies	10.32.119.0	10.32.119.1 to 10.32.119.254	10.32.119.255	183	Fu	ture 10.32.183.0	10.32.183.1 to 10.32.183.254	10.32.183.255	t	247 Future	10.32.247.0	10.32.247.1 to 10.32.247.254	10.32.247.255
56	Future	10.32.56.0	10.32.56.1 to 10.32.56.254	10.32.56.255		120	VLAN 709	10.32.120.0	10.32.120.1 to 10.32.120.254	10.32.120.255	184	Fu	iture 10.32.184.0	10.32.184.1 to 10.32.184.254	10.32.184.255	ŀ	248 Future	10.32.248.0	10.32.248.1 to 10.32.248.254	10.32.248.255
57	Future	10.32.57.0	10.32.57.1 to 10.32.57.254	10.32.57.255		121	City Network	10.32.121.0	10.32.121.1 to 10.32.121.254	10.32.121.255	185			10.32.185.1 to 10.32.185.254	10.32.185.255		249 Future	10.32.249.0	10.32.249.1 to 10.32.249.254	10.32.249.255
		10.32.58.0	10.32.58.1 to 10.32.58.254	10.32.58.255	-		External Network		rostum — mo motum v	10.32.122.255	186			10.32.186.1 to 10.32.186.254	10.32.186.255		250 Future		10.32.250.1 to 10.32.250.254	
	Future		10.32.59.1 to 10.32.59.254	10.32.59.255		- 3	FDDI Default			10.32.123.255	187	- 1		10.32.187.1 to 10.32.187.254	10.32.187.255		251 Future		10.32.251.1 to 10.32.251.254	
	Camera	10.32.60.0	10.32.60.1 to 10.32.60.254	10.32.60.255			FDDInet Default			10.32.124.255	188	Y		10.32.188.1 to 10.32.188.254	10.32.188.255		252 Future		10.32.252.1 to 10.32.252.254	
	Future		10.32.61.1 to 10.32.61.254	10.32.61.255			TRBF Default		Colour - Colour - Colour	10.32.125.255	189				10.32.189.255		253 Future		10.32.253.1 to 10.32.253.254	
	Future		10.32.62.1 to 10.32.62.254	10.32.62.255		126				10.32,126.255	190	31		10.32.190.1 to 10.32.190.254	10.32.190.255	ŀ	254 Network Management	10.32.254.0	10.32.254.1 to 10.32.254.254	10.32.254.255
63	Future	10.32.63.0	10.32.63.1 to 10.32.63.254	10.32.63.255		127	Future	10.32.127.0	10.32.127.1 to 10.32.127.254	10.32.127.255	191	Fu	iture 10.32.191.0	10.32.191.1 to 10.32.191.254	10.32.191.255					
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FUTURE TERM (33)

	Futu	re Terr	ninal	10.33	.0.0/	/24	M	HT IP A	ddressing Plan	1		` '				B				
VLAN	Function	Network	Hosts	Broadcast	.0.0/		<u></u>	Network	Hosts	Broadcast	VLAN	Function	Network	Hosts	Broadcast	VLAN	Function	Network	Hosts	Broadcast
	Core Uplinks	10.33.0.0	10.33.0.1 to 10.33.0.254	10.33.0.255			Care Uplinks	10.33.64.0	10.33.64:1 to 10.33.64:254	10.33.64.255		Core Uplinks	10.33,128.0	10.33,128.1 to 10.33,128,254	10.33,128.255		Core Uplinks	10:33,192.0	10.33.192.1 to 10.33.192.254	10.33,192,255
1 2	Default	10.33.1.0	10.33.1.1 to 10.33.1.254	10.33.1.255		65	City Unrouted	10.33.65.0	10.33.65.1 to 10.33.65.254	10.33.65.255	129	Future	10.33.129.0	10.33.129.1 to 10.33.129.254	10.33.129.255	193	Future	10,33,193.0	10.33.193.1 to 10.33.193.254	10.33.193.255
2	Admin	10.33.2.0	10.33.2.1 to 10.33.2.254	10.33.2.255		68	Future	10.33.66.0	10.33.66.1 to 10.33.66.254	10.33.66,255	130	Future	10.33.130.0	10.33,130.1 to 10.33,130.254	10.33.130.255		Future	10.33.194.0	10.33.194.1 to 10.33.194.254	10.33.194.255
3	FIDS	10.33.3.0	10.33.3.1 to 10.33.3.254	10.33.3.255		67	Future	10.33.67.0	10.33.67.1 to 10.33.67.254	10.33.67.255	131	Future		10.33.131.1 to 10.33.131.254	10.33.131.255	195	Future	10.33.195.0	10.33.195.1 to 10.33.195.254	10.33.195.255
4	Security	10.33.4.0	10.33.4.1 to 10.33.4.254	10.33.4.255		68	Future	10.33.68.0	10.33.68.1 to 10.33.68.254	10.33.68.255	132	Future	10.33.132.0	10.33.132.1 to 10.33.132.254	10.33.132.255	196	Future	10.33.196.0	10.33,196.1 to 10.33,196.254	10.33.196.255
5	Security Camera	10.33.5.0	10.33.5.1 to 10.33.5.254	10.33.5.255	1	69	Future	10.33.69.0	10.33.69.1 to 10.33.69.254	10.33.69.255	133	Future	10.33.133.0	10.33.133.1 to 10.33.133.254	10.33.133.255	197	Future	10.33.197.0	10.33.197.1 to 10.33.197.254	10.33.197.255
	Taxi	10.33.6.0	10.33.6.1 to 10.33.6.254	10.33.6,255		70	Power Related	10.33.70.0	10.33.70.1 to 10.33.70.254	10.33.70.255	134	Future		10.33.134.1 to 10.33.134.254	10.33.134.255	198	Future	10.33.198.0	10.33.198.1 to 10.33.198.254	10.33.198.255
7	HVAC	10.33.7.0	10.33.7.1 to 10.33.7.254	10.33.7.255		71	Future	10.33.71.0	10.33.71.1 to 10.33.71.254	10.33.71.255	135	Future	10.33.135.0	10.33.135.1 to 10.33.135.254	10.33.135.255	199	Future	10.33.199.0	10.33.199.1 to 10.33.199.254	10.33.199.255
8		10.33.8.0	10.33.8.1 to 10.33.8.254	10.33.8.255		72	Future	10.33.72.0	10.33.72.1 to 10.33.72.254	10.33.72.255	136	Future	10.33.136.0	10.33.136.1 to 10.33.136.254	10.33.136.255		Future	10.33.200.0	10.33,200.1 to 10.33,200.254	10.33.200.255
		10.33.9.0	10.33.9.1 to 10.33.9.254	10.33.9.255			Future	10.33.73.0	10.33.73.1 to 10.33.73.254	10.33.73.255		Future		10.33.137.1 to 10.33.137,254	10.33.137.255		Future	10.33.201.0	10.33.201.1 to 10.33.201.254	10.33.201.255
10	Comcast - Personnel	10.33.10.0	10.33.10.1 to 10.33.10.254	10.33;10,127		74	Future	10.33.74.0	10.33.74.1 to 10.33.74.264	10.33.74.255	138	Future	10.33.138.0	10.33,138.1 to 10.33,138,254	10.33.138.255		Future	10.33,202.0	10.33.202.1 to 10.33.202.254	10.33.202.255
11	iLO	10.33.11.0	10.33.11.1 to 10.33.11.254	10.33.11.255		75	Future	10.33.75.0	10.33.75.1 to 10.33.75.254	10.33.75.255	139	Future	10.33.139.0	10.33.139.1 to 10.33.139.254	10.33.139.255	203	Future	10.33.203.0	10.33.203.1 to 10.33.203.254	10.33.203.255
12	Conveyor	10.33.12.0	10.33.12.1 to 10.33.12.254	10.33.12.255		76	Future	10.33.76.0	10.33.76.1 to 10.33.76.254	10.33.76.255		Future		10.33.140.1 to 10.33.140.254	10.33.140.255	1132	Future	10.33.204.0	10.33,204.1 to 10.33,204.254	10.33.204.255
13	Future	10.33.13.0	10.33.13.1 to 10.33.13.254	10.33.13.255		77	Future	10.33,77.0	10.33.77.1 to 10.33.77.254	10.33.77.255		Future	10.33.141.0	10.33.141.1 to 10.33.141.254	10.33.141.255		Future	10,33,205.0	10.33,205.1 to 10.33,205.254	10.33.205.255
) i		10.33.14.0	10.33.14.1 to 10.33.14.254	10.33.14.255		78	Future	10.33.78.0	10.33.78.1 to 10.33.78.264	10.33.78.255		Future		10.33.142.1 to 10.33.142.254	10.33.142.255	206	į.	10.33,206,0	10.33.206.1 to 10.33.206.254	10.33.206.255
	Wireless Infrastructure		10.33.15.1 to 10.33.15.126	10.33.15.127		79	Future	10.33.79.0	10.33.79.1 to 10.33.79.254	10.33.79.255		Future		10.33.143.1 to 10.33.143.254	10.33.143.255		Future	10.33.207.0	10.33.207.1 to 10.33.207.254	10.33.207.255
	Future	10.33.16.0	10.33.16.1 to 10.33.16.254	10.33.16.255		80	Future	10.33.80.0	10.33.80.1 to 10.33.80.254	10.33.80.255		Future	10.33,144.0	10.33.144.1 to 10.33.144.254	10.33.144.255		Future	10.33.208.0	10.33,208.1 to 10.33,208.254	10.33.208.255
	Future	10.33.17.0	10.33.17.1 to 10.33.17.254			81	Future	10.33.81.0	10.33.81.1 to 10.33.81.254		145			and a second second	10.33.145.255		Future		10.33.209.1 to 10.33.209.254	
18	Future	10.33.18.0	10.33.18.1 to 10.33.18.254	10.33,18,255		82	Future	10.33.82.0	10.33.82.1 to 10.33.82.264 10.33.83.1 to 10.33.83.254	10.33.82.255		Future	10.33.146.0	10.33.146.1 to 10.33.146.254	10.33.146.255		Future	10.33.210.0	10.33.210.1 to 10.33.210.254 10.33.211.1 to 10.33.211.254	10.33.210.255
		10.33.19.0	10.33.19.1 to 10.33.19.254	10.33.19.255			Future	10.33.83.0	10.33.83.1 to 10.33.83.254	10.33.83.255	147			10.33.147.1 to 10.33.147.254	10.33.147.255		Future	10.33.212.0	10.33.211.1 to 10.33.211.254	10.33.211.255
20	Future	10.33.20.0	10.33.20.1 to 10.33.20.254	10.33.20.255		86	Virtual Cluster Heartbea	10.33.84.0	10.33.84.1 to 10.33.84.254	10.33.84.255	140	Future	10.33,148.0	10.33.148.1 to 10.33.148.254	10.33.148.255	212	Future	10.33.212.0	10.33.212.1 to 10.33.212.254 10.33.213.1 to 10.33.213.254	10.33.212.255
21	MHT Users	10.33.21.0	10.33.21.1 to 10.33.21.254	10.33.21.255		88	Virtual Gluster Heartbea Future	10.33.85.0	10.33.85.1 to 10.33.85.254	10.33.86.255	150	Future	10.33.149.0		10.33.149.255		Future	10.33.213.0	10.33.213.1 to 10.33.213.254	10.33.213.255
1 1	Future Future	10.33.22.0	10.33.22.1 to 10.33.22.126	10.33.22.127			Future	10.33.86.0	10.33.86.1 to 10.33.86.254	10.33.86,255	151			10.33.150.1 to 10.33.150.254	10.33.150.255		Future	10.33.214.0	10.33.214.1 to 10.33.214.254	10.33.214.255
1	MHT Accounting Users		10.33.24.1 to 10.33.24.254	10.33.24.255	1	88	Future	10.33.88.0	10.33.88.1 to 10.33.88.254	10.33.88.255	152	Future	10.33.152.0	10.33.152.1 to 10.33.152.254	10.33.152.255	216	Cuture	10.33.216.0	10.33.216.1 to 10.33.216.254	10.33.216.255
	Admin Users	10.33.25.0	10.33.25.1 to 10.33.25.254	10.33.25.255	3	89	Future	10.33.89.0	10.33.89.1 to 10.33.89.254	10.33.89.255	153			10.33.153.1 to 10.33.153.254	10.33.153.255		Future	10.33.217.0	10.33.217.1 to 10.33.217.254	10.33.217.255
	MHT Wireless Authentic		10.33.26.1 to 10.33.26.254	10.33.26.255		90	Future	10.33.90.0	10.33.90.1 to 10.33.90.264	10.33.90.255		Future		10.33.154.1 to 10.33.154.254	10.33.154.255		Future	10.33.218.0	10.33.218.1 to 10.33.218.254	10.33.218.255
J 3	LEO Users	10.33.27.0	10.33.27.1 to 10.33.27.254	10.33.27.255		91	Future	10.33.91.0	10.33.91.1 to 10.33.91.254	10.33.91.255	155	Future	10.33,155.0	10.33.155.1 to 10.33.155.254	10.33.155.255		Future	10.33.219.0	10.33.219.1 to 10.33.219.254	10.33.219.255
	MHT Building Maintenan		10.33.28.1 to 10.33.28.254	10.33.28.255		92	Future	10.33.92.0	10.33.92.1 to 10.33.92.254	10.33.92.255	156	Future	10.33.156.0	10.33.156.1 to 10.33.156.254	10.33.156.255		Future	10.33.220.0	10.33.220.1 to 10.33.220.254	10.33.220.255
	MHT TSA Users	10.33.29.0	10.33.29.1 to 10.33.29.254	10.33.29.255		93	Future	10.33.93.0	10.33.93.1 to 10.33.93.254	10.33.93.255		Future		10.33.157.1 to 10.33.157.254	10.33.157.255		Future	10.33.221.0	10.33.221.1 to 10.33.221.254	10.33.221.255
	MHT Printers	10.33.30.0	10.33.30.1 to 10.33.30.254	10.33.30.255		94	Future	10.33.94.0	10.33.94.1 to 10.33.94.254	10.33.94.255	158		10.33.158.0	10.33.158.1 to 10.33.158.254	10.33.158.255		Future	10.33,222.0	10.33.222.1 to 10.33.222.254	10.33.222.255
31	MHT Security Users	10.33.31.0	10.33.31.1 to 10.33.31.254	10.33.31.127		95	Future	10.33.95.0	10.33.95.1 to 10.33.95.254	10.33.95.255	159	Future		10.33.159.1 to 10.33.159.254	10.33.159.255		Future	10.33.223.0	10.33.223.1 to 10.33.223.254	10.33.223.255
1	MHT Fingerprint System		10.33.32.1 to 10.33.32.254	10.33.32.127		96	Future	10.33.96.0	10.33.96.1 to 10.33.96.254	10.33.96.255	160	Future		10.33.160.1 to 10.33.160.254	10.33.160.255		Future	10.33.224.0	10.33.224.1 to 10.33.224.254	10.33.224.255
	Guest	10.33.33.0	10.33.33.1 to 10.33.33.254	10.33.33.127	3	97	Future	10.33.97.0	10.33.97.1 to 10.33.97.254	10.33.97.255	161	Future	10.33.161.0	10.33.161.1 to 10.33.161.254	10.33.161.255	225	Future	10.33.225.0	10.33.225.1 to 10.33.225.254	10.33.225.255
34	Future	10.33.34.0	10.33.34.1 to 10.33.34.254	10.33.34.127		98	Future	10.33.98.0	10.33.98.1 to 10.33.98.254	10.33.98.255	162	Future	10.33.162.0	10.33.162.1 to 10.33.162.254	10.33.162.255	226	Future	10.33.226.0	10.33.226.1 to 10.33.226.254	10.33.226.255
35	Future	10.33.35.0	10.33.35.1 to 10.33.35.254	10.33.35.127		99	Future	10.33.99.0	10.33.99.1 to 10.33.99.254	10.33.99.255	163	Future	10.33.163.0	10.33.163.1 to 10.33.163.254	10.33.163.255	227	Future	10.33.227.0	10.33.227.1 to 10.33.227.254	10.33.227.255
36	Future	10.33.36.0	10.33.36.1 to 10.33.36.254	10.33.36.127		100	Miltown	10.33.100.0	10.33.100.1 to 10.33.100.254	10.33.100.255	164	Future	10.33.164.0	10.33.164.1 to 10.33.164.254	10.33.164.255	228	Future	10.33.228.0	10.33.228.1 to 10.33.228.254	10.33.228.255
37	Future	10.33.37.0	10.33.37.1 to 10.33.37.254	10.33.37.127		101	Hudson-Manchester	10.33.101.0	10.33.101.1 to 10.33.101.254	10.33.101.255	165	Future	10.33.165.0	10.33.165.1 to 10.33.165.254	10.33.165.255	229	Future	10.33.229.0	10.33.229.1 to 10.33.229.254	10.33.229.255
38	Future	10.33.38.0	10.33.38.1 to 10.33.38.254	10.33.38.127		102	Ben and Jerry's	10.33.102.0	10.33.102.1 to 10.33.102.254	10.33.102.255	166	Future	10.33.166.0	10.33.166.1 to 10.33.166.254	10.33.166,255	230	Future	10.33,230.0	10.33.230.1 to 10.33.230.254	10.33.230.255
39	Future	10.33.39.0	10.33.39.1 to 10.33.39.254	10.33.39.127		103	Worldwide Flight Sv c	10.33.103.0	10.33.103.1 to 10.33.103.254	10.33.103.255	167	Future	10.33.167.0	10.33.167.1 to 10.33.167.254	10.33.167.255	231	Future	10.33.231.0	10.33.231.1 to 10.33.231.254	10.33.231.255
40	Future	10.33.40.0	10.33.40.1 to 10.33.40.254	10.33.40.127		104	International RAM	10.33.104.0	10.33.104.1 to 10.33.104.254	10.33.104.255	168	Future	10.33,168.0	10.33.168.1 to 10.33.168.254	10.33.168.255	232	Future	10.33.232.0	10.33,232.1 to 10.33,232,254	10.33.232.255
41	Future	10.33.41.0	10.33.41.1 to 10.33.41.254	10.33.41.255		105	Delta	10.33.105.0	10.33.105.1 to 10.33.105.254	10.33.105.255	189	Future	10.33.169.0	10.33.169.1 to 10.33.169.254	10.33.169.255	233	Future	10.33.233.0	10.33.233.1 to 10.33.233.254	10.33.233.255
42	Southwest DMZ	10.33.42.0	10.33.42.1 to 10.33.42.254	10.33.42.255	3	106	Future	10.33.106.0	10.33.106.1 to 10.33.106.254	10.33.106.255	170	Future	10.33.170.0	10.33.170.1 to 10.33.170.254	10.33.170.255	234	Future	10.33,234.0	10.33.234.1 to 10.33.234.254	10.33.234.255
43	Future	10.33.43.0	10.33.43.1 to 10.33.43.254	10.33.43.255		107	Future	10.33.107.0	10.33.107.1 to 10.33.107.254	10.33.107.255	171	Future	10.33.171.0	10.33.171.1 to 10.33.171.254	10.33.171.255	235	Future	10.33.235.0	10.33.235.1 to 10.33.235.254	10.33.235.255
44	Future	10.33.44.0	10.33.44.1 to 10.33.44.254	10.33.44.255		108	Future	10.33.108.0	10.33.108.1 to 10.33.108.254	10.33.108.255	172	Future	10.33.172.0	10.33.172.1 to 10.33.172.254	10.33.172.255	236	Future	10.33.236.0	10.33.236.1 to 10.33.236.254	10.33.236.255
45	Johnson Cantrols	10.33.45.0	10.33.45.1 to 10.33.45.254	10.33.45.255		109	Future	10.33.109.0	10.33.109.1 to 10.33.109.254	10.33.109.255	173	Future	10.33.173.0	10.33.173.1 to 10.33.173.254	10.33.173.255	237	Future	10.33.237.0	10.33.237.1 to 10.33.237.254	10.33.237.255
46	Future	10.33.46.0	10.33.46.1 to 10.33.46.254	10.33.46.255		110	Future	10.33.110.0	10.33.110.1 to 10.33.110.254	10.33.110.255	174	Future	10.33.174.0	10.33.174.1 to 10.33:174.254	10.33.174.255	238	Future	10.33,238.0	10.33.238.1 to 10.33.238.254	10.33.238.255
47	Future	10.33.47.0	10.33.47.1 to 10.33.47.254	10.33.47.255		111	Future	10.33.111.0	10.33.111.1 to 10.33.111.254	10.33.111.255	175	Future	10.33.175.0	10.33.175.1 to 10.33.175.254	10.33.175.255	239	Future	10.33.239.0	10.33.239.1 to 10.33.239.254	10.33.239.255
48	Future	10.33.48.0	10.33.48.1 to 10.33.48.254	10.33.48.255		112	Future	10.33.112.0	10.33.112.1 to 10.33.112.254	10.33.112.255	176	Future	10.33.176.0	10.33.176.1 to 10.33.176.254	10.33.176.255	240	Future	10.33.240.0	10.33.240.1 to 10.33.240.254	10.33.240.255
49	Future	10.33.49.0	10.33.49.1 to 10.33.49.254	10.33.49.255		113	Future	10.33.113.0	10.33.113.1 to 10.33.113.254	10.33.113.255	177	Future	10.33.177.0	10.33.177.1 to 10.33.177.254	10.33.177.255	241	Future	10,33,241.0	10.33.241.1 to 10.33.241.254	10.33.241.255
50	Future	10.33.50.0	10.33.50.1 to 10.33.50.254	10.33.50.255		114	Future	10.33.114.0	10.33.114.1 to 10.33.114.254	10.33.114.255	178	Future	10.33.178.0	10.33.178.1 to 10.33.178.254	10.33.178.255	242	Future	10.33,242,0	10.33.242.1 to 10.33.242.254	10.33.242.255
51	Future	10.33.51.0	10.33.51.1 to 10.33.51.254	10.33.51.255		115	Future	10.33.115.0	10.33.115.1 to 10.33.115.254	10.33.115.255	179	Future	10.33.179.0	10.33.179.1 to 10.33.179.254	10.33.179.255	243	Future	10.33.243.0	10.33.243.1 to 10.33.243.254	10.33.243.255
52	Future	10.33.52,0	10.33.52.1 to 10.33.52.254	10.33.52.255		116		10.33.116.0	10.33.116.1 to 10.33.116.254	10.33.116.255	180	Future	10.33.180.0	10.33.180.1 to 10.33.180.254	10.33.180.255	244	Future	10.33.244.0	10.33,244.1 to 10.33,244.254	10.33.244.255
53		Commence of the first	10.33.53.1 to 10.33.53.254	10.33.53.255		117	Future	10.33.117.0	10.33.117.1 to 10.33.117.254	10.33.117.255	181	Future	10.33.181.0	10.33,181.1 to 10.33.181.254	10.33.181.255	245	Future	10.33.245.0	10.33.245.1 to 10.33.245.254	10.33.245.255
54			10.33.54.1 to 10.33.54,254	10.33.54,255			Dunkin Donuts	3	10.33.118,1 to 10.33.118,254		182	Future		10.33,182.1 to 10.33,182,254		246	Future	10	10.33.246.1 to 10.33.246.254	1 9
			10.33.55.1 to 10.33.55.254	10.33.55.255						10.33.119.255	183	Future	1		10.33.183.255		Future			10.33.247.255
			10.33.56.1 to 10.33.56.254	10.33.56.255			VLAN 709			10.33.120.255		Future			10.33.184.255		Future		10.33.248.1 to 10.33.248.254	10.33.248.255
57		Access 6.75-6	10.33.57.1 to 10.33.57,254	10.33.57.255			City Network		10.33.121.1 to 10.33.121.254			Future			10.33.185.255		Future	10.33.249.0	10.33.249.1 to 10.33.249.254	
58			10.33.58.1 to 10.33.58.254	10.33.58.255						10.33.122.255	186				10.33.186,255		Future	į.	10.33.250.1 to 10.33.250.254	10.33.250.255
1			10.33.59.1 to 10.33.59.254	10.33.59.255			FDDI Default			10.33.123.255		Future		10.33.187.1 to 10.33.187.254	10.33.187.255		Future			10.33.251.255
			10.33.60.1 to 10.33.60.254	10.33.60.255			FDDInet Default			10.33.124.255		Future			10.33.188.255		Future	10.33.252.0	10.33.252.1 to 10.33.252.254	10.33.252.255
			10.33.61.1 to 10.33.61.254	10.33.61.255			TRBF Default		10.33.125.1 to 10.33.125.254			Future		10.33.189.1 to 10.33.189.254			Future			
1 3			10.33.62.1 to 10.33.62.254	10.33,62,255		126			10.33.126.1 to 10.33.126.254	10.33.126.255		Future		10.33,190.1 to 10.33;190.254	10.33.190.255	254	Network Management	10.33,254.0	10.33.254.1 to 10.33.254.264	10.33.254.255
63	Future	10.33.63.0	10.33.63.1 to 10.33.63.254	10.33.63.255		127	Future	10.33.127.0	10.33.127.1 to 10.33.127.254	10.33.127.255	191	Future	10.33.191.0	10.33.191.1 to 10.33.191.254	10.33.191.255	8				

NORTH CAMPUS (34)

N	orth Can	nnus	10.34.0	0/24	4	MHT	IP A	ddressing Plan	OKIII		(0.1)								
VLAN Function	Network	Hosts	Broadcast		Carlo and the last		work	Hosts	Broadcast	VLAN	Function	Network	Hosts	Broadcast		VLAN Function	Network	Hosts	Broadcast
Core Uplinks	10.34.0.0	10.34 0.1 to 10.34 0.254	10.34.0.255		c	zire Uplinks 10.34	64.0	10 34 64 1 to 10 34 64 254	10.34.64.255		Core Uplinks	10.34.128.0	10.34 128 1 to 10.34 128 254	10.34 128 255		Care Uplinies	10,34.192.0	10 34 192 1 to 10 34 192 254	10.34.192.255
1 Default	10.34.1.0	10.34.1.1 to 10.34.1.254	10.34 1.255		65 C	ity Unrouted 10.34	.65.0	10.34.65.1 to 10.34.65.254	10.34 65 255	129	Future	10.34.129.0	10.34.129.1 to 10.34.129.254	10.34 129.255		193 Future	10.34.193,0	10.34.193.1 to 10.34.193.254	10.34 193.255
2 Admin	10.34.2.0	10.34.2.1 to 10.34.2.254	10.34.2.255		66 F	uture 10.34	1.66.0	10.34.66.1 to 10.34.66.254	10.34 66 255	130	Future	10.34.130.0	10.34.130.1 to 10.34.130.254	10.34.130.255		194 Future	10.34.194.0	10.34.194.1 to 10.34.194.254	10.34.194.255
3 FIDS	10.34.3.0	10.34.3.1 to 10.34.3.254	10.34.3.255		67 F	uture 10.34	1.67.0	10.34.67.1 to 10.34.67.254	10.34.67.255	131	Future	10.34.131.0	10.34.131.1 to 10.34.131.254	10.34.131.255		195 Future	10.34.195.0	10.34.195.1 to 10.34.195.254	10.34.195.255
4 Security	10.34.4.0	10.34.4.1 to 10.34.4.254	10:34.4.255		68 F	uture 10.34	1.68.0	10.34.68.1 to 10.34.68.254	10.34.68.255	132	Future	10.34.132.0	10.34.132.1 to 10.34.132.254	10.34.132.255		196 Future	10.34.196.0	10.34.196.1 to 10.34.196.254	10.34.196.255
5 Security Camera	10.34.5.0	10.34.5.1 to 10.34.5.254	10.34 5.255		69 F	uture 10.34	1.69,0	10.34.69.1 to 10.34.69.254	10.34.69.255	133	Future	10.34.133.0	10.34.133.1 to 10.34.133.254	10.34 133.255		197 Future	10.34.197.0	10.34.197.1 to 10.34.197.254	10.34 197.255
6 Taxi	10.34.6.0	10.34.6.1 to 10.34.6.254	10.34 6.255	8	70 P	ower Related 10.34	70.0	10.34 70.1 to 10.34 70.254	10.34.70.255	134	Future	10.34.134.0	10.34 134 1 to 10.34 134 254	10.34 134.255		198 Future	10.34.198.0	10.34.198.1 to 10.34.198.254	10.34 198 255
7 HVAC	10.34.7.0	10.34.7.1 to 10.34.7.254	10.34.7.255		71 F	uture 10.34	71.0	10,34.71.1 to 10.34.71.254	10.34.71.255	135	Future	10.34.135,0	10,34,135,1 to 10,34,135,254	10.34 135.255		199 Future	10.34.199.0	10.34.199.1 to 10.34.199.254	10.34 199.255
B Comcast - Passenger	10.34.8.0	18.34.8.1 to 10.34.8.254	10.34.8.255		72 F	uture 10.34	1.72.0	10.34.72.1 to 10.34.72.254	10.34.72.255	136	Future	10.34.136.0	10.34.136.1 to 10.34.136.254	10.34 136.255		200 Future	10.34.200.0	10.34.200.1 to 10.34.200.254	10.34 200.255
9 WiFi Private	10.34.9.0	10.34 9.1 to 10.34.9.254	10.34.9.255		73 F	uture 10.34	1.73.0	10.34.73.1 to 10.34.73.254	10.34.73.255	137	Future	10.34.137.0	10.34.137.1 to 10.34.137.254	10:34.137.255		201 Future	10.34.201.0	10.34.201.1 to 10.34.201.254	10.34.201.255
10 Comcast - Personnel	10.34.10.0	10.34.10.1 to 10.34.10.254	10.34.10.127		74 F	uture 10.34	1.74.0	10.34.74.1 to 10.34.74.254	10.34.74.255	138	Future	10.34.138.0	10.34.138.1 to 10.34.138.254	10.34.138.255		202 Future	10.34.202.0	10.34.202.1 to 10.34.202.254	10 34 202 255
11 ILO	10.34.11.0	10.34.11.1 to 10.34.11.254	10.34.11.255		75 F	uture 10.34	75.0	10.34,75.1 to 10.34,75.254	10.34.75.255	139	Future	10.34.139.0	10.34 139 1 to 10.34 139 254	10.34 139 255		203 Future	10.34.203.0	10.34.203.1 to 10.34.203.254	10.34.203.255
12 Conveyor	10.34.12.0	10.34 12.1 to 10.34 12.254	10.34.12.255		76 F	uture 10.34	76.0	10.34.76.1 to 10.34.76.254	10.34.76.255	140	Future	10.34.140.0	10.34.140.1 to 10.34.140.254	10.34.140.255		204 Future	10.34.204.0	10.34.204.1 to 10.34.204.254	10.34.204.255
13 Future	10.34.13.0	10.34.13.1 to 10.34.13.254	10.34 13.255		77 F	uture 10.34	.77.0	18.34.77.1 to 10.34.77.254	10.34.77.255	141	Future	10.34.141.0	10.34.141.1 to 10.34.141.254	10.34 141.255		205 Future	10.34.205.0	10.34.205.1 to 10.34.205.254	10.34.205.255
14 VMWare Vmotion	10.34.14.0	10.34 14 1 to 10.34 14.254	10.34.14.255		78 F	uture 10.34	.78.0	10.34.78.1 to 10.34.78.254	10.34.78.255	142	Future	10.34.142.0	10.34.142.1 to 10.34.142.254	10.34 142 255		206 Future	10.34.206,0	10.34.206.1 to 10.34.206.254	10.34.206.255
15 Wireless Infrastructure	10.34.15.0	10.34 15.1 to 10.34 15 126	10.34 15.127		79 F	uture 10.34	1.79.0	10.34 79.1 to 10.34 79.254	10.34 79.255	143	Future	10.34.143.0	10.34 143 1 to 10.34 143.254	10.34 143.255		207 Future	10.34.207.0	10.34,207.1 to 10.34,207.254	10.34 207 255
16 Future	10.34.16.0	10.34 16.1 to 10.34 16.254	10.34 16.255		80 F	uture 10.34	0.08.1	10.34.80.1 to 10.34.80.254	10.34 80 255	144	Future	10.34.144.0	10.34 144 1 to 10.34 144 254	10.34 144.255		208 Future	10.34.208.0	10.34 208 1 to 10.34 208 254	10.34 208 255
17 Future	10.34.17.0	10.34.17.1 to 10.34.17.254	10.34.17.255	6	81 F	uture 10.34	1.81.0	10.34.81.1 to 10.34.81.254	10.34.81.255	145	Future	10.34.145.0	10.34.145.1 to 10.34.145.254	10.34.145.255		209 Future	10.34.209.0	10.34.209.1 to 10.34.209.254	10.34.209.255
18 Future	10.34.18.0	10.34.18.1 to 10.34.18.254	10.34.18.255		82 F	uture 10.34	1.82.0	10.34.82.1 to 10.34.82.254	10.34.82.255	146	Future	10.34.146.0	10.34.146.1 to 10.34.146.254	10.34.146.255		210 Future	10.34.210.0	10.34.210.1 to 10.34.210.254	10.34.210.255
19 Future	10.34.19.0	10.34.19.1 to 10.34.19.254	10.34.19.255		83 F		1.83.0	10.34.83.1 to 10.34.83.254	10.34.83.255	147	es.	10.34.147.0	10.34.147.1 to 10.34.147.254	10.34.147.255		211 Future	10.34.211.0	10.34.211.1 to 10.34.211.254	10.34.211.265
20. MHT Desktops	10.34.20.0	10.34 20.1 to 10.34.20.254	10.34.20.255		84 F	Later Access	1.84.0	10.34.84.1 to 10.34.84.254	10.34.84.255	148	Future	10.34.148.0	10.34.148.1 to 10.34.148.254	10.34 148.255		212 Future	10.34.212.0	10.34.212.1 to 10.34.212.254	10.34.212.255
21 Future	10.34.21.0	10.34 21.1 to 10.34 21 254	10.34.21.255			irtual Cluster Heartbeats 10.34		10.34.85.1 to 10.34.85.254	10.34.85.255	149		10.34.149.0	10.34.149.1 to 10.34.149.254	10.34.149.255		213 Future	10.34.213.0	10.34,213.1 to 10.34,213,254	10.34.213.255
22 MHT Users	10 34 22 0	10.34 22 1 to 10.34 22 126	10.34 22 127		86 F		1.86.0	10.34.86.1 to 10.34.86.254	10.34 86 255	150		10.34.150.0	10.34 150 1 to 10.34 150.254	10.34.150.255		214 Future	10.34 214.0	10.34.214.1 to 10.34.214.254	10 34 214 255
28 Future	10.34.23.0	10.34.23.1 to 10.34.23.254	10.34 23 255		87 F	uture 10.34		10.34.87.1 to 10.34.87.254	10 34 87 255	151		10.34.151.0	10.34.151.1 to 10.34.151.254	10.34 151 255		215 Future	10.34.215.0	10.34.215.1 to 10.34.215.254	10.34.215.255
24 MHT Accounting User		10.34.24.1 to 10.34.24.254	10.34.24.255	6	11 - 8		1.88.0	10.34.88.1 to 10.34.88.254	10 34 88 255	152		10.34.152.0	10.34 152 1 to 10.34 152 254	10 34 152 255		216 Future	10.34.216.0	10.34.216.1 to 10.34.216.254	10.34 216 255
25 Admin Users	10.34.25.0	10.34.25.1 to 10.34.25.254	10.34.25.255				1.89.0	10.34.89.1 to 10.34.89.254	10.34.89.255	153		10.34.153.0	10.34.153.1 to 10.34.153.254	10.34.153.255		217 Future	10.34.217.0	10.34,217.1 to 10.34,217,254	10.34.217.255
26 MHT Wireless Authen	. Consequence	10.34.26.1 to 10.34.26.254	10.34.26.255	£			1.90.0	10.34.90.1 to 10.34.90.254	10.34.90.255	154		10.34.154.0	10.34.154.1 to 10.34.154.254	10.34.154.255		218 Future	10.34.218.0	10.34.218.1 to 10.34.218.254	10.34.218.255
	10.34.27.0	10.34.27.1 to 10.34.27.254	10.34.27.255				1.91.0	10.34.91.1 to 10.34.91.254	10.34.90.255	155	A STATE OF THE STA	10.34.155.0	10.34.155.1 to 10.34.155.254				10.34.219.0	10.34.219.1 to 10.34.219.254	10.34.219.255
27 LEO Users 28 MHT Building Mainte					91 F					100	Educa	10.34.156.0		10.34 155 255		219 Future			
28 MHT Building Mainte 29 MHT TSA Users		10.34.28.1 to 10.34.28.254	10.34 28 255		92		93.0	10.34.92.1 to 10.34.92.254	10.34.92.255	157	Future	10.34.157.0	10.34.156.1 to 10.34.156.254	10.34 156 255		220 Future	10.34.220.0	10.34.220.1 to 10.34.220.254	10.34.220.255
The state of the s	10.34.29.0	10 34 29.1 to 10.34 29 254	10 34 29 255		+			10.34 93.1 to 10.34 93 254	10 34 93 255		69,00		10.34.157.1 to 10.34.157.254	10.34.157.255		221 Future	10.34.221.0	10.34.221.1 to 10.34.221.254	10 34 221 255
30 MHT Printers	10.34.30.0	10.34.30.1 to 10.34.30.254	10.34.30.255		- 4		.94.0	10.34.94.1 to 10.34.94.254	10.34.94.255	158		10.34.158.0	10.34.158.1 to 10.34.158.254	10.34.158.255		222 Future	10.34.222.0	10.34.222.1 to 10.34.222.254	10.34.222.255
31 MHT Security Users	10.34.31.0	10.34.31.1 to 10.34.31.254	10.34.31.127				0.96.0	10.34.95.1 to 10.34.95.254	10.34.95.255	159		10.34.159.0	10.34.159 1 to 10.34.159.254	10.34.159.255		223 Future	10.34.223.0	10 34 223 1 to 10 34 223 254	10 34 223 255
32 MHT Fingerprint Syste		10.34.32.1 to 10.34.32.254	10.34.32.127	5	96 F	Company of the Company	1.96.0	10.34.95.1 to 10.34.96.254	10.34.96.255	160	Future	10.34.160.0	10.34.160.1 to 10.34.160.254	10.34.160.255		224 Future	10.34.224.0	10.34.224.1 to 10.34.224.254	10.34.224.255
33 Guest	10.34.33.0	10.34.33.1 to 10.34.33.254	10.34.33.127	E 8	97 F		1.97.0	10.34.97.1 to 10.34.97.254	10.34.97.255	161	Future	10.34,161.0	10.34.161 1 to 10.34.161.254	10.34 161.255		225 Future	10.34.225.0	10.34.225.1 to 10.34.225.254	10.34 225 255
34 Future	10.34.34.0	10.34.34.1 to 10.34.34.254	10.34.34.127				1.98.0	10.34.98.1 to 10.34 98.254	10.34 98 255	162	100000	10.34.162.0	10.34.162.1 to 10.34.162.254	10.34 162 255		226 Future	10.34.226.0	10.34.226.1 to 10.34.226.254	10.34 226 255
35 Future	10.34.35.0	10.34.35.1 to 10.34.35.254	10.34.35.127		99 F	uture 10.34	99.0	10.34.99.1 to 10.34.99.254	10.34 99 255	163	Future	10.34.163,0	10.34.163.1 to 10.34.163.254	10.34 163 255		227 Future	10.34.227.0	10.34.227.1 to 10.34.227.254	10.34 227 255
36 Future	10.34.36.0	10.34.36.1 to 10.34.36.254	10.34.36.127		100 %	filitown 10.34	1.100.0	10.34.100.1 to 10.34.100.254	10.34.100.255	164	Future	10.34.164.0	10.34.164.1 to 10.34.164.254	10.34.164.255		228 Future	10.34.228.0	10.34.228.1 to 10.34.228.254	10.34 228 255
37 Future	10.34.37.0	10.34.37.1 to 10.34.37.254	10.34.37.127		101 H	ludson-Manchester 10.34	1.101.0	10.34.101.1 to 10.34.101.254	10.34.101.255	165	Future	10.34.165.0	10.34.165.1 to 10.34.165.254	10.34.165.255		229 Future	10.34.229.0	10.34.229.1 to 10.34.229.254	10.34.229.255
38 Future	10.34.38.0	10.34.38.1 to 10.34.38.254	10.34.38.127		102 B	en and Jerry's 10.34	1.102.0	10.34.102.1 to 10.34.102.254	10.34.102.255	166	Future	10.34.166.0	10.34.166.1 to 10.34.166.254	10.34 166.255		230 Future	10.34.230.0	10.34.230.1 to 10.34.230.254	10.34.230.255
39 Future	10.34.39.0	10.34.39.1 to 10.34.39.254	10.34.39.127		103 V	iofidwide Flight Svc 10.34	1.103.0	10.34.103.1 to 10.34.103.254	10.34.103.255	167	Future	10.34.167.0	10.34.167.1 to 10.34.167.254	10.34 167.255		231 Future	10.34.231.0	10.34.231.1 to 10.34.231.254	10.34.231.255
40 Future	10.34.40.0	10.34.40.1 to 10.34.40.254	10.94.40.127		104	nternational RAM 10.34	104.0	10.34.104.1 to 10.34.104.254	10.34 104.255	168	Future	10.34.168.0	10.34 168 1 to 10.34 168 254	10.34 168 255		232 Future	10.34.232.0	10.34.232.1 to 10.34.232.254	10.34 232 255
41 Future	10.34.41.0	10.34.41.1 to 10.34.41.254	10.34.41.255	2	105 D	elta 10.34	105.0	10.34.105.1 to 10.34.105.254	10.34 105 255	169	Future	10.34.169.0	10,34,169.1 to 10,34,169.254	10.34 169.255		233 Future	10.34.233.0	10.34.233.1 to 10.34.233.254	10.34.233.255
42 Southwest DMZ	10.34.42.0	10.34.42.1 to 10.34.42.254	10.34.42.255		106 F	uture 10.34	1.106.0	10.34.106.1 to 10.34.106.254	10.34 106.255	170	Future	10.34.170.0	10.34.170.1 to 10.34.170.254	10.34 170.255		234 Future	10.34.234.0	10.34.234.1 to 10.34.234.254	10.34 234 255
43 Future	10.34.43.0	10.34.43.1 to 10.34.43.254	10.34.43.255		107 F	uture 10.34	1.107.0	10.34.107.1 to 10.34.107.254	10.34.107.255	171	Future	10.34.171.0	10.34.171.1 to 10.34.171.254	10:34.171.255		235 Future	10.34.235.0	10.34.235.1 to 10.34.235.254	10.34.235.255
44 Future	10.34.44.0	10.34.44.1 to 10.34.44.254	10.34.44.255		108 F	uture 10.34	1.108.0	10.34.108.1 to 10.34.108.254	10.34.108.255	172	Future	10.34.172.0	10.34.172.1 to 10.34.172.254	10.34.172.255		236 Future	10.34.236.0	10.34.236.1 to 10.34.236.254	10.34.236.265
45 Johnson Controls	10.34.45.0	10.34.45.1 to 10.34.45.254	10.34.45.255		109 F	uture 10.34	1.109.0	10.34.109.1 to 10.34.109.254	10.34.109.255	173	Future	10.34.173.0	10.34 173 1 to 10.34 173 254	10.34 173 255		237 Future	10.34.237.0	10.34.237.1 to 10.34.237.254	10.34.237.255
46 Future	10.34.46.0	10.34.46.1 to 10.34.46.254	10.34.46.255		110 F	uture 10.34	110.0	10.34.110.1 to 10.34.110.254	10.34.110.255	174	Future	10.34.174.0	10.34.174.1 to 10.34.174.254	10.34.174.255		238 Future	10.34.236.0	10.34.238.1 to 10.34.238.254	10.34.238.265
47 Future	10.34.47.0	10.34.47.1 to 10.34.47.254	10.34 47 255		111 F	uture 10.34	1111.0	10.34 111 1 to 10.34 111 254	10:34:111.255	175	Future	10.34.175.0	10.34 175 1 to 10.34 175 254	10.34 175 255		239 Future	10.34.239.0	10.34.239.1 to 10.34.239.254	10.34 239.265
48 Future	10.34.48.0	10.34.48.1 to 10.34.48.254	10.34.48.255		112 F	uture 10.34	1112.0	10.34 112 1 to 10.34 112 254	10.34.112.255	176	Future	10.34.176,0	10.34.176.1 to 10.34.176.254	10.34 176.255		240 Future	10.34.240.0	10.34.240.1 to 10.34.240.254	10.34.240.255
49 Future	10.34.49.0	10.34.49.1 to 10.34.49.254	10.34.49.255		113 F	uture 10.34	1.113.0	10.34 113.1 to 10.34.113.254	10.34 113 255	177	Future	10.34.177.0	10.34 177.1 to 10.34 177.254	10.34 177.255		241 Future	10.34.241.0	10,34,241,1 to 10,34,241,254	10.34.241.255
50 Future	10.34.50.0	10.34.50.1 to 10.34.50.254	10.34.50.255		114 F	uture 10.34	1.114.0	10.34 114 1 to 10.34 114 254	10.34.114.255	178	Future	10.34.178.0	10.34 178 1 to 10.34 178 254	10.34 178.255		242 Future	10.34.242.0	10.34 242 1 to 10.34 242 254	10.34 242 255
51 Future	10.34.51.0	10.34.51.1 to 10.34.51 254	10.34.51.255		115 F	uture 10.34	1.115.0	10.34.115.1 to 10.34.115.254	10.34.115.255	179	Future	10.34.179.0	10.34.179.1 to 10.34.179.254	10.34.179.255		243 Future	10.34.243.0	10.34.243.1 to 10.34.243.254	10.34.243.255
52 Future	10.34.52.0	10.34.52.1 to 10.34.52.254	10.34.52.255		116 F		1116.0	10.34.116.1 to 10.34.116.254	10.34.116.255	180		10.34.180.0	10.34.180.1 to 10.34.180.254	10.34 180 255		244 Future	10.34.244.0	10.34.244.1 to 10.34.244.254	10.34.244.255
53 Future	10.34.53.0	10.34.53.1 to 10.34.53.254	10.34.53.255		117 F	uture 10.34	1.117.0	10.34.117.1 to 10.34.117.254	10.34.117.255	181	Future	10.34.181.0	10.34.181.1 to 10.34.181.254	10.34.181.255		245 Future	10.34.245,0	10.34.245.1 to 10.34.245.254	10.34.245.255
54 Future	A 10-20-20-20-2	10.34.54.1 to 10.34.54.254	10.34.54.255				novina i	10.34 118 1 to 10.34 118 254	10:34 118 255	182	Call Coll	10.34.182.0	10.34.182.1 to 10.34.182.254	10.34 182 255		246 Future	A STATE OF THE STA	10.34.246.1 to 10.34.246.254	10.34 246 255
55. Signs		10.34.55.1 to 10.34.55.254	10.34.55.255		119 A	udax Technologies 10.34	1.119.0	10.34 119.1 to 10.34 119.254	10.34.119.255	183		10.34.183.0	10.34.183.1 to 10.34.183.254	10.34.183.255		247 Future		10.34.247.1 to 10.34.247.254	10.34.247.255
56 Future		10.34.56.1 to 10.34.56.254	10.34 56 255					10 34 120 1 to 10 34 120 254	10.34 120 255	184	11.07.550		10.34 184 1 to 10.34 184 254	10.34.184.255		248 Future		10.34.248.1 to 10.34.248.254	10.34.248.255
87 Future	10.34.57.0	10.34 57.1 to 10.34 57.254	10.34 57 255			70000000000000000000000000000000000000	monto — E	10.34.121.1 to 10.34.121.254	10.34.121.255	185	***************************************	10.34.185.0	10.34 185 1 to 10.34 185 254	10.34 185 255		249 Future	10.34.249.0	10.34.249.1 to 10.34.249.254	10.34 249 255
58 Future	10.34.58.0	10.34.58.1 to 10.34.58.254	10.34 58 255		1000			10.34.122.1 to 10.34.122.254	10.34.122.255	186	1000		10.34.186.1 to 10.34.186.254	10.34.186.255		250 Future		10.34.250.1 to 10.34.250.254	10.34.250.255
59 Future	10.34.59.0	10.34.59.1 to 10.34.59.254	10.34.59.255	3			- 5	10.34.123.1 to 10.34.123.254	10.34.123.255	187			10.34.187.1 to 10.34.187.254	10.34.187.255		251 Future		10.34.251.1 to 10.34.251.254	10.34.251.255
60. Camera	10.34.60.0	10.34.60.1 to 10.34.60.254	10.34.60.255			AND AND ARREST	manaca S	10.34.124.1 to 10.34.124.254	10.34.124.255	188	CALC.	10.34.188.0	10.34.188.1 to 10.34.188.254	10.34.188.255		252 Future	100 miles (100 miles (10.34.252.1 to 10.34.252.254	10.34.252.255
A STATE OF THE STA			10.34.61.255			- Indiana - Indiana	1000	10.34.125.1 to 10.34.125.254	10.34 125 255		e la tradicio de		10.34.189.1 to 10.34.189.254	10.34 189.255				10.34.253.1 to 10.34.253.254	10.34.252.265
61 Future 62 Future		10.34.51.1 to 10.34.61.254	10.34.61.255		126 F			10.34.125.1 to 10.34.125.254	10.34 126 255	189			10.34.190.1 to 10.34.189.254	10.34 189.255		253 Future		10.34.253.1 to 10.34.253.254	10.34.253.255
63 Future		10.34 63.1 to 10.34 62.254	10.34.62.255		125 F				10.34 126.255							Awayon wanagement	U.PC3.PC.VI		10.04.204.255
ou France	10.04.03.0	-0-35 Wall to 10-39-03-204	10.04.03.200		181	10.34	- race of	10.34.127.1 to 10.34.127.254	10.04.127.200	191	5 No. 4 APP.	10,04,191.0	10.34.191.1 to 10.34.191.254	10.34.191.255					
															_				

SOUTH CAMPUS (35)

South Campus	10.35.0.0/24	MHT IP Addressing Plan	OOTH CANIF							
VLAN Function Network Hosts	Broadcast VLAN Function	Network Hosts		LAN Function	Network Hosts	Broadcast	VLAN Function	Network	Hosts	Broadcast
Core Uplinks 10.35.0.0 10.35.0.1 to 10.35.0.254	10.35.0.255 Core Uplinks	10.35.64.0 10.35.64.1 to 10.35.64.254	10.35.64.255	Core Uplinks	10 35 128 0 10 35 128 1 to 10 35 128 254	10.35 128 255	Core Uplinis	10.35 192.0	10 35 192 1 to 10 35 192 254	10.35 192.255
1 Default 10.35.1.0 10.35.1.1 to 10.35.1.254	10.35 1.255 65 City Unrouted	10.35.65.0 10.35.65.1 to 10.35.65.254		129 Future	10 35 129.0 10 35 129.1 to 10 35 129 254	10.35 129.255	193 Future	10.35.193.0	10.35.193.1 to 10.35.193.254	10.35 193.255
2 Admin 10.35.2.0 10.35.2.1 to 10.35.2.264	10.35 2.255 66 Future	10.35.66.0 10.35.66.1 to 10.35.66.254			10.35.130.0 10.35.130.1 to 10.35.130.254	10.35.130.255	194 Future	10.35.194.0	10.35.194.1 to 10.35.194.254	10:35.194.255
3 FIDS 10.35.3.0 10.35.3.1 to 10.35.3.254	10.35.3.255 67 Future	10.35.67.1 to 10.35.67.254		131 Future	10.35.131.0 10.35.131.1 to 10.35.131.254	10.35.131.255	195 Future	10.35.195.0	10.35.195.1 to 10.35.195.254	10.35.195.255
4 Security 10.35.4.0 10.35.4.1 to 10.35.4.254	10.35.4.255 68 Future	10.35.68.0 10.35.68.1 to 10.35.68.254			10.35.132.0 10.35.132.1 to 10.35.132.254	10.35.132.255	196 Future	10.35.196.0	10.35,196,1 to 10.35,196,254	10.35 196.255
5 Security Camera 10.35.5.0 10.35.5.1 to 10.35.5.254	10.35-5.255 69 Future	10.35.69.0 10.35.69.1 to 10.35.69.254			10.35.133.0 10.35.133.1 to 10.35.133.254	10.35 133.255	197 Future	10.35.197.0	10.35.197.1 to 10.35.197.254	10.35 197.255
6 Taxi 10.35.6.0 10.35.6.1 to 10.35.6.254	10.35 6.255 70 Power Related	10.35.70.0 10.35.70.1 to 10.35.70.254		134 Future	10.35.134.0 10.35.134.1 to 10.35.134.254	10.35 134.255	198 Future	10.35.198.0	10.35.198.1 to 10.35.198.254	10.35 198 255
7 HVAC 10.35.7.0 10.35.7.1 to 10.35.7.254	10.35.7.255 71 Future	10.35.71.0 10.35.71.1 to 10.35.71.254		135 Future	10.35.135.0 10.35.135.1 to 10.35.135.254	10.35 135 255	199 Future	10.35.199.0	10.35 199 1 to 10.35 199.254	10.35 199.255
8 Comcast - Passenger 10.35.8.0 10.35.8.1 to 10.35.8.254	10.35.8.255 72 Future	10.35.72.0 10.35.72.1 to 10.35.72.254		10000	10.35.136.0 10.35.136.1 to 10.35.136.254	10.35 136.255	200 Future	10.35.200.0	10.35 200.1 to 10.35 200.254	10.35 200.265
9 WiFi Private 10.35.9.0 10.35.9.1 to 10.35.9.254	10.35.9.255 73 Future	10.35.73.0 10.35.73.1 to 10.35.73.254		and the second	10.35.137.0 10.35.137.1 to 10.35.137.254	10:35.137.255	201 Future	10.35.201.0	10.35.201.1 to 10.35.201.254	10:35 201 255
10 Comcast - Personnel 10.35.10.0 10.35.10.1 to 10.35.10.254	10.35.10.127. 74 Future	10.35.74.0 10.35.74.1 to 10.35.74.254			10.35.138.0 10.35.138.1 to 10.35.138.254	10.35.138.255	202 Future	10.35.202.0	10.35.202.1 to 10.35.202.254	10.35.202.255
11 iLC 10.35.11.0 10.35.11.1 to 10.35.11.284	10.35 11.255 75 Future 10.35 12.255 76 Future	10.35.75.0 10.35.75.1 to 10.35.75.254 10.35.76.0 10.35.76.1 to 10.35.76.254	10.35.75.255		10.35.139.0 10.35.139.1 to 10.35.139.254 10.35.140.0 10.35.140.1 to 10.35.140.254	10.35.139.255	203 Future	10.35.203.0	10.35.203.1 to 10.35.203.254	10.35.203.255
		Augustus Spanishermannens	Same and the same of			10 35 140.255	Control Control			10.35.204.255
12 Future 10.35.13.0 10.35.13.1 to 10.35.13.254 14 VMWate Vmetion 10.35.14.0 10.35.14.1 to 10.35.14.254	10.35 13.255 77 Future 10.35 14.255 78 Future	10.35.77.0 10.35.77.1 to 10.35.77.254 10.35.78.0 10.35.78.1 to 10.35.78.254		141 Future	10.35.141.0 10.35.141.1 to 10.35.141.254 10.35.142.0 10.35.142.1 to 10.35.142.254	10.35 141.255	205 Future 206 Future	10.35.206.0	10.35.205.1 to 10.35.205.254 10.35.206.1 to 10.35.206.254	10.35.205.255
15 Wireless Infrastructure 10.35.15.0 10.35.15.1 to 10.35.15.156	10.35 15.127 79 Future	10.35.79.0 10.35.79.1 to 10.35.79.254			10.35.143.0 10.35.143.1 to 10.35.143.254	10.35 143 255	207 Future	10.35.207.0	10.35.206.1 to 10.35.206.254	10.35.207.255
16 Future 10.35.16.0 10.35.16.1 to 10.35.16.254	10.35 16.255 80 Future	10.35.80.0 10.35.80.1 to 10.35.80.254		7.400	10.35.144.0 10.35.144.1 to 10.35.144.254	10.35 144 255	208 Future	10.35.208.0	10.35.208 1 to 10.35.208.254	10.35 208 255
17 Future 10.35.17.0 10.35.17.1 to 10.35.17.254	10.35 17.255 81 Future	10.35.81.0 10.35.81.1 to 10.35.81.254		145 Future	10 35 145 0 10 35 145 1 to 10 35 145 254	10 35 145 255	209 Future	10.35.209.0	10.35.209.1 to 10.35.209.254	10 35 209 255
18 Future 10.35.18.0 10.35.18.1 to 10.35.18.284	10.35.17.255 81 Future	10.35.82.0 10.35.82.1 to 10.35.82.254			10.35.146.0 10.35.146.1 to 10.35.146.254	10.35.145.255	210 Future	10.35.210.0	10.35.210.1 to 10.35.210.254	10.35.209.255
19 Future 10.35.18.0 10.35.18.1 15.10.35.18.254	10.35.19.255 83 Future	10.35.82.0 10.35.82.1 to 10.35.82.254	- Construction of the cons	Topologica Company	10.35.146.0 10.35.146.1 to 10.35.146.254	10.35 147.255	211 Future	10.35.210.0	10.35.210.1 to 10.36.210.254	10.35.211.255
20 MHT Destops 10.35.20.0 10.35.20.1 to 10.35.20.254	10.35.20.255 84 Future	10.35.84.0 10.35.84.1 to 10.35.84.254	- Company of the Comp	148 Future	10.35.148.0 10.35.148.1 to 10.35.148.254	10.35 148.255	212 Future	10.35.212.0	10.35.212 1 to 10.35.212.254	10.35.212.255
2† Future 10.35.21.0 10.35.21.1 to 10.35.21.254		Heartbeats 10.35.85.0 10.35.85.1 to 10.35.85.254			10.35.149.0 10.35.149.1 to 10.35.149.254	10.35 149.255	213 Future	10.35.213.0	10.35.213.1 to 10.35.213.254	10.35.213.255
22 MHT Users 10.35.22.0 10.35.22.1 to 10.35.22.126	10.35.22.127 86 Future	10.35.86.0 10.35.86.1 to 10.35.86.254		1.00	10.35.150.0 10.35.150.1 to 10.35.150.254	10.35 150.255	214 Future	10.35.214.0	10.35.214.1 to 10.35.214.254	10.35 214 255
28 Future 10.35.23.0 10.35.23.1 to 10.36.23.254	10.35.23.255 87 Future	10.35.87.0 10.35.87.1 to 10.35.87.254			10.35.151.0 10.35.151.1 to 10.35.151.254	10.36 151 255	215 Future	10.35.215.0	10.35.215.1 to 10.35.215.254	10 35 215 255
24 MHT Accounting Users 10.35.24.0 10.35.24.1 to 10.35.24.254	10.35.24.255 88 Future	10.35.86.0 10.35.88.1 to 10.35.88.254		152 Future	10.35.152.0 10.35.152.1 to 10.35.152.254	10.35.152.255	216 Future	10.35.216.0	10.35.216.1 to 10.35.216.254	10.35.216.255
25 Admin Users 10.35.25.0 10.35.25.1 to 10.35.25.254	10.35.25.255 89 Future	10.35.89.0 10.35.89.1 to 10.35.89.254		153 Future	10.35.153.0 10.35.153.1 to 10.35.153.254	10.35.153.255	217 Future	10.35.217.0	10.35.217.1 to 10.35.217.254	10.35.217.255
26 MHT Wireless Authentical 10.35.26.0 10.35.26.1 to 10.35.26.254	10.35.26.255 90 Future	10.35.90.0 10.35.90.1 to 10.35.90.254	Consumption of the Consumption o	154 Future	10.35,154.0 10.35,154.1 to 10.35,154.254	10.35 154.255	218 Future	10.35.218.0	10.35.218.1 to 10.35.218.254	10.35.218.255
27 LEO Users 10.35.27.0 10.35.27.1 to 10.35.27.254	10.35.27.255 91 Future	10.35.91.0 10.35.91.1 to 10.35.91.254		NAME OF TAXABLE PARTY.	10.35.155.0 10.35.155.1 to 10.35.155.254	10.35 155 255	219 Future	10.35.219.0	10.35.219.1 to 10.35.219.254	10.35.219.255
28 MHT Building Maintenan 10.35.28.0 10.35.28.1 to 10.35.28.254	10.35.28.255 92 Future	10.35.92.0 10.35.92.1 to 10.35.92.254	10.35 92 255	156 Future	10.35.156.0 10.35.156.1 to 10.35.156.254	10.35 156.255	220 Future	10.35.220.0	10.35.220.1 to 10.35.220.254	10.35.220.255
29 MHT TSA Users 10.35.29.0 10.35.29.1 to 10.35.29.254	10:35:29:265 93 Future	10.35.93.0 10.35.93.1 to 10.35.93.254	10 35 93 265	157 Future	10.35.157.0 10.35.157.1 to 10.35.157.254	10.35.157.255	221 Future	10.35.221.0	10.35.221.1 to 10.35.221.254	10 35 221 255
30 MHT Printers 10.35.30.0 10.35.30.1 to 10.35.30.254	10.35.30.255 94 Future	10.35.94.0 10.35.94.1 to 10.35.94.254	10.35.94.255	158 Future	10.35.158.0 10.35.158.1 to 10.35.158.254	10.35.158.255	222 Future	10.35.222.0	10.35.222.1 to 10.35.222.254	10.35.222.255
31 MHT Security Users 10.35.31.0 10.35.31.1 to 10.35.31.254	10:35:31:127 95 Future	10.35.96.0 10.35.95.1 to 10.36.96.254	10:35.95.255	159 Future	10.35.159.0 10.35.159.1 to 10.35.159.254	10 35 159 255	223 Future	10.35.223.0	10.35.223.1 to 10.35.223.254	10 35 223 255
32 MHT Fingerprint System 10.35.32.0 10.35.32.1 to 10.35.32.254	10.35.32.127 96 Future	10.35.96.0 10.35.96.1 to 10.35.96.254	10.35.96.255	160 Future	10.35.160.0 10.35.160.1 to 10.35.160.254	10.35.160.255	224 Future	10.35.224.0	10.35.224.1 to 10.35.224.254	10.35.224.255
33 Guest 10.35.33.0 10.35.33.1 to 10.35.33.254	10.35.33.127 97 Future	10.35.97.0 10.35.97.1 to 10.35.97.254	10.35.97.255	161 Future	10.35.161.0 10.35.161.1 to 10.35.161.254	10.35 161.255	225 Future	10.35.225.0	10.35.225.1 to 10.35.225.254	10.35 225 255
34 Future 10.35.34.0 10.35.34.1 to 10.35.34.254	10.35.34.127 98 Future	10.35.98.0 10.35.98.1 to 10.35.98.254	10.35.98.255	162 Future	10.35.162.0 10.35.162.1 to 10.35.162.254	10.35 162 255	226 Future	10.35.226.0	10.35.226.1 to 10.35.226.254	10.35.226.255
35 Future 10.35.35.0 10.35.35.1 to 10.35.35.254	10.35.35.127 99 Future	10.35.99.0 10.35.99.1 to 10.35.99.254	10.35 99 255	163 Future	10.35.163.0 10.35.163.1 to 10.35.163.254	10.35 163.255	227 Future	10.35.227.0	10.35.227.1 to 10.35.227.254	10.35 227 255
36 Future 10.35.96.0 10.35.36.1 to 10.35.36.254	10.35.36.127 100 Milltown	10.35.100.0 10.35.100.1 to 10.35.100.254	10.35.100.255	164 Future	10.35.164.0 10.35.164.1 to 10.35.164.254	10.35.164.255	228 Future	10.35.228.0	10.35.228.1 to 10.35.228.254	10:35.228.255
37 Future 10.35.37.0 10.35.37.1 to 10.35.37.254	10.35.37.127 101 Hudson-Mand	ester 10.35.101.0 10.35.101.1 to 10.35.101.254	10.35.101.255	165 Future	10.35.165.0 10.35.165.1 to 10.35.165.254	10.35.165.255	229 Future	10.35.229.0	10.35.229.1 to 10.35.229.254	10.35.229.255
38 Future 10.35.38.0 10.35.38.1 to 10.35.38.254	10.35.38.127 102 Ben and Jeny	i 10.35.102.0 10.35.102.1 to 10.35.102.254	10.35.102.255	166 Future	10.35.166.0 10.35.166.1 to 10.35.166.254	10.35.166.255	230 Future	10.35.230.0	10.35.230.1 to 10.35.230.254	10.35.230.255
39 Future 10.35.39.0 10.35.39.1 to 10.35.39.254	10.35.39.127 103 Worldwide Flig	ht Svc 10.35.103.0 10.35.103.1 to 10.35.103.254	10.35 103:255	157 Future	10.35.167.0 10.35.167.1 to 10.35.167.254	10.35 167.255	231 Future	10.35.231.0	10.35.231.1 to 10.35.231.254	10.35.231.255
40 Future 10.35.40.0 10.35.40.1 to 10.35.40.254	10.95.40.127 104 International F	AM 10.35 104.0 10.35 104.1 to 10.35 104.254	10.35 104.255	168 Future	10.35.168.0 10.35.168.1 to 10.35.168.254	10.35 168 255	232 Future	10.35.232.0	10.35.232.1 to 10.35.232.254	10.35.232.255
41 Future 10.35.41.0 10.35.41.1 to 10.36.41.254	10.35.41.255 105 Delta	10.35.105.0 10.35.105.1 to 10.35.105.254	10.35 105 255	169 Future	10.35.169.0 10.35.169.1 to 10.35.169.254	10.35 169 255	233 Future	10.35.233.0	10.35.233.1 to 10.35.233.254	10.35.233.255
42 Southwest DMZ 10.35.42.0 10.35.42.1 to 10.35.42.254	10.35.42.255 106 Future	10.35.106.0 10.35.106.1 to 10.35.106.254	10.35 106 255	170 Future	10.35.170.0 10.35.170.1 to 10.35.170.254	10.35 170.255	234 Future	10.35.234.0	10.35.234.1 to 10.35.234.254	10.35 234 255
43 Future 10.35.43.0 10.35.43.1 to 10.35.43.254	10.35.43.255 107 Future	10.35.107.0 10.35.107.1 to 10.35.107.254	10.35.107.255	171 Future	10.35.171.0 10.35.171.1 to 10.35.171.254	10:35.171.255	235 Future	10.35.235.0	10.35.235.1 to 10.35.235.254	10:35:235:255
44 Future 10.35.44.0 10.35.44.1 to 10.35.44.254	10.35.44.255 108 Future	10.35.108.0 10.35.108.1 to 10.35.108.254	10.35.108.255	172 Future	10.35.172.0 10.35.172.1 to 10.35.172.254	10.35.172.255	236 Future	10.35.236.0	10.35.236.1 to 10.35.236.254	10.35.236.255
45 Johnson Controls 10.35.45.0 10.35.45.1 to 10.35.45.254	10.35.45.255 109 Future	10.35.109.0 10.35.109.1 to 10.35.109.254			10.35.173.0 10.35.173.1 to 10.35.173.254	10.35.173.255	237 Future	10.35.237.0	10.35.237.1 to 10.35.237.254	10.35.237.255
46 Future 10.35.46.0 10.35.46.1 to 10.35.46.254	10.35.46.255 110 Future	10.35,110.0 10.35,110.1 to 10.35,110.254	10.35 110.255	174 Future	10.35.174.0 10.35.174.1 to 10.35.174.254	10.35.174.255	238 Future	10.35.236.0	10.35.238.1 to 10.35.238.254	10.35.238.255
47 Future 10.35.47.0 10.35.47.1 to 10.35.47.254	10.35.47.255 1.11 Future	10.35.111.0 10.35.111.1 to 10.35.111.254	10.36.111.255	175 Future	10.35.175.0 10.35.175.1 to 10.35.175.254	10.36 175 255	239 Future	10.35.239,0	10.35.239 1 to 10.35.239.254	10.35.239.265
48 Future 10.35.48.0 10.35.48.1 to 10.35.48.254	10.35.48.255 112 Future	10.35.112.0 10.35.112.1 to 10.35.112.254			10.35.176,0 10.35.176.1 to 10.35.176.254	10.35.176.255	240 Future		10 35 240 1 to 10 35 240 254	10.35.240.255
49 Future 10.35.49.0 10.35.49.1 to 10.35.49.254	10.35.49.255 113 Future	10.35.113.0 10.35.113.1 to 10.35.113.254			10.35.177.0 10.35.177.1 to 10.35.177.254	10.35 177 255	241 Future		10,35,241.1 to 10,35,241,254	10.35.241.255
50 Future 10.35.50.0 10.35.50.1 to 10.35.50.254	10.35.50.255 114 Future	10.35.114.0 10.35.114.1 to 10.35.114.254			10.35.178.0 10.35.178 t to 10.35.178.254	10.35 178 255	242 Future		10.35.242 1 to 10.35.242.254	10.35 242 255
51 Future 10.35.51.0 10.35.51.1 to 10.35.51.254	10.35.51.255 115 Future	10.35.115.0 10.35.115.1 to 10.35.115.254			10.35.179.0 10.35.179.1 to 10.35.179.254	10.35.179.255	243 Future		10.35.243.1 to 10.35.243.254	10.35 243 255
52 Future 10.35.52.0 10.35.52.1 to 10.35.52.254	10.35.52.255 116 Future	10.35.116.0 10.35.116.1 to 10.35.116.254	Character services		10.35.180.0 10.35.180.1 to 10.35.180.254	10.35 180 255	244 Future	- Commence	10.35.244.1 to 10.35.244.254	10.35.244.255
69 Future 10.35.53.0 10.35.53.1 to 10.35.53.254	10.35.53.255 117 Future	10.35.117.0 10.35.117.1 to 10.35.117.254	- Commission of the Commission		10.35.181.0 10.35.181.1 to 10.35.181.254	The second second	245 Future		10.35.245.1 to 10.35.245.254	10.35.245.255
54 Future 10.35.54.0 10.35.54.1 to 10.35.54.254	10.35.54.255 118 Dunkin Donuts				10.35.182.0 10.35.182.1 to 10.35.182.254	10.35 182 255	246 Future		10.35.246.1 to 10.35.246.254	10:35.246.255
55 Signs 10.35.55.0 10.35.55.1 to 10.35.55.254		logies 10.35.119.0 10.35.119.1 to 10.35.119.254			10.35,183.0 10.35,183.1 to 10.35,183.254	10.35 183 255	247 Future		10.35.247.1 to 10.35.247.254	10.35.247.255
56 Future 10.35.56.0 10.35.56.1 to 10.35.56.254	10.35 56 255 120 VLAN 709	10.35.120.0 10.35.120.1 to 10.35.120.254		1	10.35.184.0 10.35.184.1 to 10.35.184.254	10.35.184.255	248 Future		10.35.248.1 to 10.35.248.254	10.35.248.255
57 Future 10.35.57.0 10.35.57.1 to 10.35.57.254	10.35.57.255 121 City Network		27		10.35.185.0 10.35.185.1 to 10.35.185.254	10.35.185.255	249 Future		10.35.249.1 to 10.35.249.254	10.35.249.255
58 Future 10.35.58.0 10.35.58.1 to 10.35.58.254	10.35.58.255 122 External Natw				10.35.186.0 10.35.186.1 to 10.35.186.254	10.35.186.255	250 Future		10.35.250.1 to 10.35.250.254	10.35.250.255
59 Future 10.35.59.0 10.35.59.1 to 10.35.59.254	10.35.59.255 123 FDDI Default	u Proposition Samerana appropriation	Consultation (approxi		10.35.187.0 10.35.187.1 to 10.35.187.254	10.35.187.255	251 Future	(100 to 100 10.35.251.1 to 10.35.251.254	10.35.251.255	
80 Camera 10.35.60.0 10.35.60.1 to 10.35.60.254	10.35.60.255 124 FDDinet Defai				10.35,188.0 10.35,188.1 to 10.35,188.254		252 Future		10.35.252.1 to 10.35.252.254	10.35.252.265
61 Future 10.35.61.0 10.35.61.1 to 10.35.61.254	10.35.61.255 125 TRBF Default				10.35.189.0 10.35.189.1 to 10.35.189.254	10.35 189.255	253 Future		10.35.253 1 to 10.35.253.254	10.35.253.255
62 Future 10.35.62.0 10.35.62.1 to 10.35.62.254	10.35 62 255 126 Future	10.35.126.0 10.35.126.1 to 10.35.126.254			10.35,190,0 10.35,190,1 to 10.35,190,254	10.35 190.255	254 Network Management	10.35.254.0	10.35.254.1 to 10.35.254.254	10.35 254 255
68 Future 10.35.63.0 10.35.63.1 to 10.35.63.254	10.35 63 255 127 Future	10.35.127.0 10.35.127.1 to 10.35.127.264	10.35 127 255	191 Future	10.35.191.0 10.35.191.1 to 10.35.191.254	10.35.191.255	3 /			
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EAST CAMPUS (36)

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	st Cam		10.36.0.0/2	TTO CANADA WAS A		Addressing Plan			10000		Tellie Tel			22/74/1/29	20116-124	
VLAN Function	Network	Hosts		VLAN		Hosts	Broadcast	VLAN	Function	Network	Hosts 10.36 128 1 to 10.36 128 254	Broadcast	VLAN Function	Network	Hosts 10.36.192.1 to 10.36.192.254	Broadcast
Core Uplinks 1 Default	10.36.0.0	10.36.0.1 to 10.36.0.254 10.36.1.1 to 10.36.1.254	10.36 0.255		Cire Uplinks 10.36.64.0 City Unrouted 10.36.65.0	10.36.64.1 to 10.36.64.254 10.36.65.1 to 10.36.65.254	10.36 64.255	129	Core Uplinks Future	10.36.128.0	10.36.128.1 to 10.36.128.254	10.36 128 255	Core Uplinis 193 Future	10.36.192.0	10.36.193.1 to 10.36.193.254	10.36 192.255
2 Admin	10.36.2.0	10 36 2 1 to 10 36 2 254	10.36.2.255		Future 10.96.66.0	10.36.66.1 to 10.36.66.254	10 36 66 255		Future	10.36.130.0	10.36.130.1 to 10.36.130.254	10.36.130.255	194 Future	10.36.194.0	10.36.194.1 to 10.36.194.254	10.36.194.255
3 FIDS	10.36.3.0	10.36.3.1 to 10.36.3.254	10.36.3.255	200	Future 10.36.67.0	10.36.67.1 to 10.36.67.254	10.36.67.255		Future	10.36.131.0	10.36.131.1 to 10.36.131.254	10.36.131.255	195 Future	10.36.195.0	10.36.195.1 to 10.36.195.254	10.36.195.255
4 Security	10.36.4.0	10.36.4.1 to 10.36.4.254	10.36.4.255		Future 10.36.68.0	10.36.68 1 to 10.36.68 254	10.36.68.255		Future	10.36.132.0	10.36.132.1 to 10.36.132.254	10.36.132.255	196 Future	10.36.196.0	10.36.196.1 to 10.36.196.254	10.36.196.255
5 Security Camera	10.36.5.0	10.36.5.1 to 10.36.5.254	10.36.5.255			10.36.69.1 to 10.36.69.254	10.36.69.255		Future	10.36.133.0	10.36.133.1 to 10.36.133.254	10.36.133.255	197 Future	10.36.197.0	10.36.197.1 to 10.36.197.254	10.36.196.255
				1			Economic and a	4				1				10.36.197.255
6 Taxi	10.36.6.0	10.36.6.1 to 10.36.6.254	10.96 6.255		Power Related 10.36.70.0	10.36.70.1 to 10.36.70.254	10.36.70.255		Future	10.36.134.0	10.36.134.1 to 10.36.134.254	10.36 134.255	198 Future	10.36.198.0	10.36.198 1 to 10.36 198 254	
7 HVAC	10.36.7.0	10.36.7.1 to 10.36.7.254	10.36.7.255		Future 10.35.71.0	10,36.71.1 to 10.36.71.254	10.36.71.255		Future	10.36.135,0	10,36.135.1 to 10.36.135.254	10.36 135.255	199 Future	10.36.199.0	10.36.199 1 to 10.36.199.254	10.36 199.255
B Comcast - Passenger	10.36.8.0	10.36.8.1 to 10.36.8.254	10.36.8.255		Future 10.36.72.0	10.36.72.1 to 10.36.72.254	10.36 72.255		Future	10.36.136.0	10.36.136.1 to 10.36.136.254	10.36 136.255	200 Future	10.36.200.0	10.36.200.1 to 10.36.200.254	10.36 200.255
9 WiFi Private	10.36.9.0	10.36.9.1 to 10.36.9.254	10.36.9.255	73	2000000	10.36.73.1 to 10.36.73.254	10.36.73.255		Future	10.36.137.0	10.36.137.1 to 10.36.137.254	10.36.137.255	201 Future	10.36.201.0	10.36.201.1 to 10.36.201.254	10.36.201.255
10 Comcast - Personnel	10.36.10.0	10.36.10.1 to 10.36.10.254	10.36.10.127	74		10.36.74.1 to 10.36.74.254	10.36.74.255	3	Future	10.36.138.0	10.36.138.1 to 10.36.138.254	10.36 138 255	202 Future	10.36.202.0	10.36.202.1 to 10.36.202.254	10 36 202 255
11 110	10.36.11.0	10.36.11.1 lo 10.36.11.254	10.36.11.255	5	Future 10.36.75.0	10.36.75.1 to 10.36.75.254	10.36.75.255	2.00	Future	10.36.139.0	10.36,139 1 to 10.36,139,254	10.36 139 255	203. Future	10.36.203.0	10.36.203.1 to 10.36.203.254	10.36.203.255
12 Conveyor	10.36.12.0	10.36.12.1 to 10.36.12.254	10.36 12.255	(Future 10.36.76.0	10.36.76.1 to 10.36.76.254	10.36.76.255		Future	10.36.140.0	10.36.140.1 to 10.36.140.254	10.36 140.255	204 Future	10.36.204.0	10.36.204.1 to 10.36.204.254	10.36.204.255
13 Future	10.36.13.0	10.36.13.1 to 10.36.13.254	10.36.13.255		Future 10.36.77.0	18.36.77.1 to 10.36.77.254	10.36.77.255		Future	10.36.141.0	10.36.141.1 to 10.36.141.254	10.36.141.255	205 Future	10.36.205.0	10.36.205.1 to 10.36.205.254	10.36.205.255
14 VMWam Vmotion	10.36.14.0	10.96.14.1 to 10.36.14.254	10,96 14 255	78		10.36.78.1 to 10.36.78.254	10.36.78.255		Future	10.36.142.0	10.36.142.1 to 10.36.142.254	10.36 142 255	206 Future	10.36,206,0	10.36.206.1 to 10.36.206.254	10.36.206.255
15. Wireless Infrastructure	10.36.15.0	10.36.15.1 to 10.36.15.126	10.36 15.127		Future 10.36.79.0.	10.36.79.1 to 10.36.79.254	10.36 79.255	3 1111	Future	10.36.143.0	10.36.143.1 to 10.36.143.254	10.36 143.255	207 Future	10.36.207.0	10.36.207.1 to 10.36.207.254	10.36 207 255
16 Future	10.36.16.0	10.36 16.1 to 10.36.16.254	10.36 16.255	7 - 10 9	Future 10.36.80.0	10.36.80.1 to 10.36.80.254	10.36 80 255		Future	10.36.144.0	10.36.144 1 to 10.36 144.254	10.36 144.255	208 Future	10.36.208.0	10.36.208 1 to 10.36.208.254	10.36 208 255
17. Future	10.36.17.0	10.36.17.1 to 10.36.17.254	10.36.17.255		Future 10.36.81.0	10.36.81.1 to 10.36.81.254	10.36.81.255		Future	10.36.145.0	10.36.145.1 to 10.36.145.254	10.36.145.255	209 Future	10.36.209.0	10.36.209.1 to 10.36.209.254	10.36.209.255
18 Future	10.36:18.0	10.36.18.1 to 10.36.18.254	10.36,18.255		Future 10.36.82.0	10,36.82.1 to 10.36.82.254	10.36.82.255	S. com	Future	10.36.146.0	10.36.146.1 to 10.36.146.254	10.36.146.255	210 Future	10.36.210.0	10.36,210.1 to 10.36,210.254	10.36.210.255
19 Future	10.36.19.0	10.36.19.1 to 10.36.19.254	10.36.19.255		Future 10.36.83.0	10.36.83.1 to 10.36.83.254	10.36.83.255	3	Future	10.36.147.0	10.36.147.1 to 10.36.147.254	10.36.147.255	211 Future	10.36.211.0	10.36.211.1 to 10.36.211.254	10.36.211.255
20 MHT Desktops	10.36.20.0	10.36.20.1 to 10.36.20.254	10.36.20.255		Future 10.36.84.0	10.36.84.1 to 10.36.84.254	10.36.84.255		Future	10.36.148.0	10,36,148,1 to 10,36,148,254	10.36 148.255	212 Future	10.36.212.0	10.36.212.1 to 10.36.212.254	10.36.212.255
21 Future	10.36.21.0	10.36.21.1 to 10.36.21.254	10.36.21.255		Virtual Cluster Heartbeats 10.36.85.0	10.36.85.1 to 10.36.85.254	10.36.85.255		Future	10.35,149.0	10.36.149.1 to 10.36.149.254	10.36.149.255	213 Future	10.36.213.0	10.36.213.1 to 10.36.213.254	10.36.213.255
22 MHT Users	10.36.22.0	10.36.22.1 to 10.36.22.126	10.36 22.127		Future 10.36.86.0	10.36.86.1 to 10.36.86.254	10.36 86 255		Future	10.36.150.0	10.36.150.1 to 10.36.150.254	10.36.150.255	214 Future	10.36.214.0	10.36.214.1 to 10.36.214.254	10 36 214 255
23 Future	10.36.23.0	10.36.23.1 to 10.36.23.254	10.36 23.255	3 11 3	Future 10.36.87.0	10.36.87.1 to 10.36.87.254	10 36 87 255		Future	10.36.151.0	10.36.151.1 to 10.36.151.254	10.36 151 255	215 Future	10.36.215.0	10.36.215.1 to 10.36.215.254	10.36 215 255
24 MHT Accounting Users	10.36.24.0	10.36.24.1 to 10.36.24.254	10.36 24.255		Future 10.36.86.0	10.36.88.1 to 10.36.88.254	10.36.88.255		Future	10.36.152.0	10.36.152 1 to 10.36.152.254	10.36.152.255	216 Future	10.36.216.0	10.36.216.1 to 10.36.216.254	10.36.216.255
25 Admin Users	10.36.25.0	10.36.25.1 to 10.36.25.254	10.36.25.255	I)	Future 10.36.89.0	10,36.89.1 to 10.36.89.254	10.36.89.255	S	Future	10.36.153.0	10.36.153.1 to 10.36.153.254	10.36.153.255	217 Future	10.36.217.0	10.36.217.1 to 10.36.217.254	10.36.217.255
26 MHT Wireless Authentica		10.36.26.1 to 10.36.26.254	10.36.26.265		Future 10.36,90.0	10.36.90.1 to 10.36.90.254	10.36.90.255	-	Future	10.36,154,0	10.36.154.1 to 10.36.154.254	10.36 154.255	218 Future	10.36.218.0	10.36.218.1 to 10.36.218.254	10.36.218.255
27 LEO Users	10.36.27.0	10.36.27.1 to 10.36.27.254	10.36.27.255		Future 10.36.91.0	10.36.91.1 to 10.36.91.254	10.36.91.255		Future	10.36.155.0	10.36.155.1 to 10.36.155.254	10.36 155.255	219 Future	10.36.219.0	10.36.219 1 to 10.36.219.254	10.36.219.255
28 MHT Building Maintenar		10.36.28.1 to 10.36.28.254	10.36 28.255	92		10.36.92.1 to 10.36.92.254	10.36 92 255		Future	10.36,156,0	10.36.156.1 to 10.36.156.254	10.36 156.255	220 Future	10.36.220,0	10.36.220.1 to 10.36.220.254	10.36 220 255
29 MHT TSA Users	10.36.29.0	10.36.29.1 to 10.36.29.254	10.36.29.255	7	Future 10.36.93.0	10 36 93.1 to 10 36 93 254	10 36 93 255	2 110	Future	10.36.157.0	10.36.157.1 to 10.36.157.254	10.36.157.255	221 Future	10.36.221.0	10.36.221.1 to 10.36.221.254	10.36 221 255
30 MHT Printers	10.36.30.0	10.36.30.1 to 10.36.30.254	10.36.30.255		Future 10.36.94.0	10.36.94.1 to 10.36.94.254	10.36.94.255		Future	10.36.158.0	10.36.158.1 to 10.36.158.254	10.36.158.255	222 Future	10.36.222.0	10.36.222.1 to 10.36.222.254	10.36 222.255
31 MHT Security Users	10.36.31.0	10.36.31.1 to 10.36.31.254	10.36.31.127	95		10.36.95.1 to 10.36.95.254	10.36.95.255	8	Future	10.36.159.0	10.36.159.1 to 10.36.159.254	10.36,159.255	223 Future	10.36.223.0	10.36.223.1 to 10.36.223.254	10 36 223 255
32 MHT Fingerprint System	10.36.32.0	10.36.32.1 to 10.36.32.254	10.36.32.127	S //	Future 10.36.96.0	10.36.96.1 to 10.36.96.254	10.36.96.255	S	Future	10.36.160.0	10.36 160.1 to 10.36 160.254	10.36.160.255	224 Future	10.36.224.0	10,36,224.1 to 10,36,224,254	10.38 224.255
33 Guest	10.36.33.0	10.36.33.1 to 10.36.33.254	10.36.33.127		Future 10.36.97.0	10.36.97.1 to 10.36.97.254	10.36.97.255		Future	10.36,161.0	10.36.161.1 to 10.36.161.254	10.36 161.255	225 Future	10.36.225.0	10.36.225 1 to 10.36.225.254	10.36.225.255
34 Future	10.36.34.0	10.36.34.1 to 10.36.34.254	10.36.34.127		Future 10.36.98.0	10.36.98.1 to 10.36.98.254	10.36 98 255		Future	10.36.162.0	10.36 162 1 to 10.36 162 254	10.36 162 255	226 Future	10.36.226.0	10.36.226 1 to 10.36.226.254	10.36 226 255
35 Future	10.36.35.0	10.36.35.1 to 10.36.35.254	10.36.35.127		Future 10.38.99.0	10.36.99.1 to 10.36.99.254	10.36.99.255		Future	10.36.163,0	10.36.163.1 to 10.36.163.254	10.36 163.255	227 Future	10.36.227.0	10.36.227.1 to 10.36.227.254	10.36 227 255
36 Future	10.36.36.0	10.36.36.1 to 10.36.36.254	10.36.36.127		Militown 10.36.100.0	10.36.100.1 to 10.36.100.254	10.36.100.255	2	Future	10.36.164.0	10.36.164.1 to 10.36.164.254	10.36.164.255	228 Future	10.36.228.0	10.36.228.1 to 10.36.228.254	10.36 228 255
37 Future	10.36.37.0	10.36.37.1 to 10.36.37.254	10.36.37.127		Hudson-Manchester 10.36.101.0	10.36.101.1 to 10.36.101.254	10.36.101.255	8	Future	10.36.165.0	10.36.165.1 to 10.36.165.254	10.36.165.255	229 Future	10.36.229.0	10.36.229.1 to 10.36.229.254	10.36.229.255
38 Future	10.36.38.0	10.36.38.1 to 10.36.38.254	10.36.38.127	£	Ben and Jerry's 10.36.102.0	10.36.102.1 to 10.36.102.254	10.36.102.255		Future	10.36.166.0	10.36.166.1 to 10.36.166.254	10.36 166.255	230 Future	10.36.230.0	10.36.230.1 to 10.36.230.254	10.36.230.255
39 Future	10.36.39.0	10.36.39.1 to 10.36.39.254	10.36.39.127		Worldwide Flight Svc 10.36.103.0	10.36 103.1 to 10.36 103.254	10.36.103.255	5	Future	10.36.167.0	10.36.167.1 to 10.36.167.254	10.36.167.255	231 Future	10.36.231.0	10.36.231 1 to 10.36.231.254	10.36.231.255
40 Future	10.35.40.0	10.36.40.1 lb 10.36.40.254	10.36 40.127		International RAM 10.36.104.0	10.36.104.1 to 10.36.104.254	10.36 104.255		Future	10.36.168.0	10.36.168.1 to 10.36.168.254	10.36 168 255	232 Future	10.36.232.0	10.36.232 1 to 10.36.232.254	10.36.232.255
41 Future	10.36.41.0	10.36.41.1 to 10.36.41.254	10.36.41.255	105		10,36.105.1 to 10.36.105.254	10.36 105 255		Future	10.36.169.0	10,36,169 1 to 10,36 169,254	10.36 169 255	233 Future	10.36.233,0	10,36,233 1 to 10,36,233,254	10.36 233 255
42 Southwest DMZ		10.36.42.1 to 10.36.42.254		106		10.36.106.1 to 10.36.106.254	10.36 106 255	-	Future		10.36.170.1 to 10.36.170.254	10.36 170.255	234 Future	1-5	10.36.234.1 to 10.36.234.254	10.36 234.255
43 Future	10.36.43.0	10.36.43.1 to 10.36.43.254		107	5000 State S	10.36.107.1 to 10.36.107.254	10.36.107.255		Future	200000000000000000000000000000000000000	10.36.171.1 to 10.36.171.254	10.36.171.255	235 Future		10.36.235.1 to 10.36.235.254	10.36.235.255
44 Future	10.36.44.0	10.36.44.1 to 10.36.44.254		108		10.36.108.1 to 10.36.108.254	10.36.108.255		Future	10.36.172.0	10.36.172.1 to 10.36.172.254	10.36.172.255	236 Future	1	10.36.236.1 to 10.36.236.254	10.36.236.255
45 Johnson Controls		10.36.45.1 to 10.36.45.254	Consumption 1	109	No.	10.36.109.1 to 10.36.109.254	10.36.109.255	2	Future		10.36.173.1 to 10.36.173.254	10.36.173.255	237 Future	550,500,50	10.36.237.1 to 10.36.237.254	10.36.237.255
46 Future	10.36.46.0	10.36.46.1 to 10.36.46.254	Secure 1	110	han seems	10.36.110.1 to 10.36.110.254	10.36.110.255	2	Future	10.36.174.0	10.36.174.1 to 10.36.174.254	10.36.174.255	238 Future	lann-on-s	10.36.238 1 to 10.36.238.254	10 36 238 255
47 Future		10.36.47.1 to 10.36.47.254		111		10.36.111.1 to 10.36.111.254	10.36.111.255		Future		10.36.175.1 to 10.36.175.254	10.36.175.255	239 Future		10.36.239.1 to 10.36.239.254	10.36.239.255
48 Future		10.36.48.1 to 10.36.48.254		112		10.36.112.1 to 10.36.112.254	10.36 112.255		Future		10.36.176.1 to 10.36.176.254	10.36 176.265	240 Future		10.36.240.1 to 10.36.240.254	10.36.240.255
49 Future	egozateja e zot.	10.36.49.1 to 10.36.49.254	- Contraction -	113		10.36.113.1 to 10.36.113.254	10.36 113.255		Future	SALES AND A SALE	10.36.177.1 to 10.36.177.254	10.36 177 255	241 Future		10,36,241.1 to 10,36,241.254	10.36 241 255
50 Future		10.36.50.1 to 10.36.50.254		114		10.36.114.1 to 10.36.114.254	10.36 114.255	2 100	Future	10.36.178.0	10.36.178 1 to 10.36 178 254	10.36 178 255	242 Future		10.36 242 1 to 10.36 242 254	10.36 242 255
51 Future		10.36.51.1 to 10.36.51.254	1	115		10.36.115.1 to 10.36.115.254	10.36.115.255	3	Future	10.36.179.0	10.36.179.1 to 10.36.179.254	10.36.179.255	243 Future		10.36.243.1 to 10.36.243.254	10.36.243.255
62 Future	Carron tar	10.36.52.1 to 10.36.52.254	Character Control	116	and the same of th	10,36.116.1 to 10.36.116.254	10.36.116.255	S. Contraction	Future	Lanca Lanca	10.36.180.1 to 10.36.180.254	10.36 180 255	244 Future	Server turn pur	10.36.244.1 to 10.36.244.254	10.36.244.255
63 Future	10.36.53.0	10.36.53.1 to 10.36.53.254	5 manuscra	117	entro terrano.	10.36.117.1 to 10.36.117.254	10.36.117.255		Future	10.36.181.0	10.36.181.1 to 10.36.181.254	10.36.181.255	245 Future	Delucios de la comp	10.36.245.1 to 10.36.245.254	10.36.245.255
54 Future		10.36.54.1 to 10.36.54.254				16.36.118.1 to 10.36.118.254	10.36.118.255		Future		10.36.182.1 to 10.36.182.254	10:36 182 255	246 Future		10.36.246.1 to 10.36.246.254	10.36.246.255
55 Signs	10.36.55.0	10.36.55.1 to 10.36.55.254				10.36.119.1 to 10.36.119.254	10.36 119.255		Future		10.36.183.1 to 10.36.183.254	10.36 183 255	247 Future		10.36.247.1 to 10.36.247.254	10.36.247.255
56 Future		10.36.56.1 to 10.36.56.254	2.100.100.100.1	120		10.36.120.1 to 10.36.120.254	10.36 120 255	3	Future	10.36.184.0	10.36.184.1 to 10.36.184.254	10.36.184.255	248 Future		10.36 248 1 to 10.36 248 254	10.36.248.255
57 Future		10.36.57.1 to 10.36.57.254				10.36.121.1 to 10.36.121.254	10.36 121 255	2	Future		10.36.185.1 to 10.36.185.254	10.36.185.255	249 Future		10.36 249 1 to 10.36 249 254	10.36.249.255
58 Future		10.36 58.1 to 10.36 58 254				10.36.122.1 to 10.36.122.254	10.36.122.255		Future	10.36.186.0	10.36.186.1 to 10.36.186.254	10.36.186.255	250 Future		10.36.250.1 to 10.36.250.254	10.36.250.255
59 Future	CANAL CASA	10.36.59.1 to 10.36.59.254		Same A	CANADA AND AND AND AND AND AND AND AND AN	10,36.123.1 to 10.36.123.254	10.36.123.255	S. Carrier	Future		10.36.187.1 to 10.36.187.254	10.36.187.255	251 Future	Contract of the Contract of th	10.36.251.1 to 10.36.251.254	10.36.251.255
60 Camera	10.36.60.0	10.36.60.1 to 10.36.60.254	10.36.60.255			10.36.124.1 to 10.36.124.254	10.36.124.255		Future	10.36,188,0	10.36.188.1 to 10.36.188.254	10.36.188.255	252 Future		10.36.252.1 to 10.36.252.254	10.36.252.255
61 Future		10,36.61.1 to 10.36.61.254				10.36.125.1 to 10.36.125.254	10.36 125.255		Future	10.36.189.0	10.36.189.1 to 10.36.189.254	10.36 189.255	253 Future		10.36.253 1 to 10.36.253.254	10.36.253.255
62 Future		10.36.62.1 to 10.36.62.254		126		10.36.126.1 to 10.36.126.254	10.36 126.255	1.00	Future	10.36,190,0	10.36.190.1 to 10.36.190.254	10.36 190.255	254 Network Manag	ement 10.36.254.0	10.36.254.1 to 10.36.254.254	10.36 254 255
63 Future	10.36.63.0	10.36.63.1 to 10.36.63.254	10.36 63 255	127	ruture 10.36.127.0	10.36.127.1 to 10.36.127.254	10.36 127 255	191	Future	10.36.191.0	10.36.191.1 to 10.36.191.254	10.36.191.255				

WEST CAMPUS (37)

14	V	Vest Carr	nous	10.37	.0.0/24	I N	IHT IP A	ddressing Plan	ľ							,				
VLAN	Function	Network	Hosts	Broadcast	AND ASSESSMENT OF THE PARTY OF	Function	Network	Hosts	Broadcast	VL	LAN	Function	Network	Hosts	Broadcast	VLAN	Function	Network	Hosts	Broadcast
	Core Uplinks	10.37.0.0	10.37 0.1 to 10.37 0.254	10.37.0.255		Core Uplinis	10.37.64.0	10:37:64:1 to 10:37:64:254	10.37.64.255	4		Core Uplinks	10.37.128.0	10.37.128.1 to 10.37.128.254	10.37 128 255		Core Uplinis	10.37.192.0	10 37 192 1 to 10 37 192 254	10.37.192.255
- 11	Default	10.37.1.0	10.37.1.1 to 10.37.1.254	10.37.1.255	65	City Unrouted	10.37.65.0	10.37.65.1 to 10.37.65.254	10.37.65.255	- 1	129	Future	10.37.129.0	10.37.129.1 to 10.37.129.254	10.37 129.255	193	Future	19.37,193,0	10.37.193.1 to 10.37.193.254	10.37 193 255
2	Admin	10.37.2.0	10.37.2.1 to 10.37.2.254	10.37.2.255	66	Future	10.37.66.0	10.37.66.1 to 10.37.66.254	10.37.66.255	1	130	Future	10.37.130.0	10.37.130.1 to 10.37.130.254	10.37.130.255	194	Future	10.37.194.0	10.37.194.1 to 10.37.194.254	10.37.194.255
3	FIDS	10.37.3.0	10.37.3.1 to 10.37.3.254	10.37.3.255	67	Future	10.37.67.0	10.37.67.1 to 10.37.67.254	10.37.67.255	1.	31	Future	10.37.131.0	10.37.131.1 to 10.37.131.254	10.37.131.255	195	Future	10.37.195.0	10.37.195.1 to 10.37.195.254	10.37.195.255
4	Security	10.37,4.0	10.37.4.1 to 10.37.4.254	10.37.4.255	68	Future	10.37.68.0	10.37.68.1 to 10.37.68.254	10.37.68.255	1	132	Future	10.37.132,0	10.37.132.1 to 10.37.132.254	10.37.132.255	196	Future	10.37.196.0	10.37.196.1 to 10.37.196.254	10.37 196.255
5	Security Camera	10.37.5.0	10.37.5.1 to 10.37.5.254	10.37.5.255	69	Future	10.37.69,0	10.37.69.1 to 10.37.69.254	10.37.69.255	1	133	Future	10.37,133.0	10.37 133 1 to 10.37 133 254	10.37.133.255	197	Future	10.37,197.0	10.37.197.1 to 10.37.197.254	10.37.197.255
6	Taxi	10.37.6.0	10.37.6.1 to 10.37.6.254	10.37.6.255	70	Power Related	10 37.70.0	10.37.70.1 to 10.37.70.254	10.37.70.255	1	134	Future	10.37.134.0	10.37.134.1 to 10.37.134.254	10.37.134.255	198	Future	10.37,198.0	10.37.198.1 to 10.37.198.254	10.37 198 255
7	HVAC	10.37.7.0	10.37.7.1 to 10.37.7.254	10.37.7.255	71	Future	10.37.71.0	10,37,71.1 to 10,37,71.254	10.37.71.265	1	135	Future	10.37.135,0	10,37,135.1 to 10,37,135.254	10.37 135.255	199	Future	10.37.199.0	10.37.199.1 to 10.37.199.254	10.37 199 255
3	Comcast - Passenger		10.37.8.1 to 10.37.8.254	10.37.8.255	70	Future	10.37.72.0	10.37.72.1 to 10.37.72.254	10.37.72.255		136	Entura	10.37.136.0	10.37.136.1 to 10.37.136.254	10.37.136.255		Future	10.37.200.0	10.37.200.1 to 10.37.200.254	10.37 200.255
	WiFi Private		10.37.9.1 to 10.37.9.254	100000000000000000000000000000000000000				10.37.73.1 to 10.37.73.254				79.600					100000	1		1103747711111111111111111111111111111111
9	discounted)	10.37.9.0		10.37.9.255		Future	10.37.73.0		10.37.73.255		137	10000	10.37.137.0	10.37.137.1 to 10.37.137.254	10.37.137.255	201	Future		10.37.201.1 to 10.37.201.254	10.37.201.255
10	Comcast - Personnel	10.37.10.0	10.37.10.1 to 10.37.10.254	10.37.10.127	74	Future	10.37.74.0	10.37.74.1 to 10.37.74.254	10.37.74.255	- 1	138	Future	10.37.138.0	10.37.138.1 to 10.37.138.254	10.37.138.255	202	Future		10.37.202.1 to 10.37.202.254	10.37.202.255
33	iLO	10.37.11.0	10.37.11.1 to 10.37.11.254	10.37.11.255	75	Future	10.37.75.0	10.37.75.1 to 10.37.75.254	10.37.75.255	- 1	139	Future	10.37.139.0	10.37 139.1 to 10.37.139.254	10.37.139.255	203	Future	10.37.203.0	10.37.203.1 to 10.37.203.254	10.37.203.255
12	Conveyor	10.37.12.0	10.37 12.1 to 10.37 12.254	10.37.12.255	76	Future	10.37.76.0	10.37.76.1 to 10.37.76.254	10.37.76.255	1	140	Future	10.37.140.0	10.37.140.1 to 10.37.140.254	10.37.140.255	204	Future	10.37.204.0	10.37.204.1 to 10.37.204.254	10.37,204,255
13	Future	10.37.13.0	10.37.13.1 to 10.37.13.254	10.37.13.255	77	Future	10.37.77.0	10.37.77.1 to 10.37.77.254	10.37.77.255	. 1	141	Future	10.37,141.0	10.37.141.1 to 10.37.141.254	10.37.141.255	205	Future	10.37.205.0	10.37.205.1 to 10.37.205.254	10.37.205.255
14	VMWam Vmotion	10:37:14.0	10.37.14.1 to 10.37.14.254	10,37.14.255	78	Future	10.37.78.0	10.37.78.1 to 10.37.78.254	10.37.78.255	-	142	Future	10.37.142.0	10.37 142 1 to 10.37 142 254	10.37.142.255	206	Future	10.37.206.0	10.37.206.1 to 10.37.206.254	10.37.206.255
15	Wireless Infrastructur	e 10.37.15.0.	10.37 15.1 to 10.37 15.126	10.37.15.127	79	Future	10.37.79.0	10.37.79.1 to 10.37.79.254	10.37.79.255	- 1	143	Future	10.37.143.0	10.37.143.1 to 10.37.143.254	10.37.143.255	207	Future	10.37.207.0	10.37.207.1 to 10.37.207.254	10.37.207.255
16	Future	10.37.16.0	10.37 16.1 to 10.37 16.254	10.37.16.255	80	Future	10.37.80,0	10.37.80.1 to 10.37.80.254	10.37.80.255	1	144	Future	10.37.144.0	10.37 144 1 to 10.37 144 254	10.37 144.255	208	Future	10.37.208.0	10.37.208.1 to 10.37.208.254	10.37.208.255
17	Future	10.37.17.0	10.37.17.1 to 10.37.17.254	10.37.17.255	81	Future	10.37.81.0	10.37.81.1 to 10.37.81.254	10.37.81.255	1	145	Future	10.37.145.0	10.37.145.1 to 10.37.145.254	10.37.145.255	209	Future	10.37.209.0	10.37.209.1 to 10.37.209.254	10.37.209.255
10	Future	10.37.18.0	10.37 18.1 to 10.37 18.254	10,37,18,255	90	Future	10.37.82.0	10.37 82.1 to 10.37 82 254	10.37.82.255		146	Future	10.37.146.0	10.37.146.1 to 10.37.146.254	10.37 146.255	210	Future	10.37.210.0	10.37.210.1 to 10.37.210.254	10.37.210.255
19	Future	10.37.19.0	10.37.19.1 to 10.37.19.254	10.37.19.255	90	Future	10.37.83.0	10.37.83.1 to 10.37.83.254	10.37.82.255		147	Fulture	10.37.147.0	10.37.146.1 to 10.37.147.254	10.37.146.255	211	Future	10.37,211.0	10.37.211.1 to 10.37.211.254	10.37.210.255
19				Same		- Alexander			Section and section	5		Stratura			Contraction and Contraction of	-				
20	MHT Desitops	10.37.20.0	10.37.20.1 to 10.37.20.254	10.37.20.255	84		10.37.84.0	10.37.84.1 to 10.37.84.254	10.37.84.255		148		10.37.148.0	10.37.148.1 to 10.37.148.254	10.37.148.255	21.2	Future	10.37.212.0	10.37.212.1 to 10.37.212.254	10.37.212.255
21	Future	10.37.21.0	10.37.21.1 to 10.37.21.254	10.37.21.255		Virtual Cluster Heartbea		10.37.85.1 to 10.37.85.254	10.37.85.255		49	110000	10.37.149.0	10.37.149.1 to 10.37.149.254	10.37.149.255	213	Future	10.37.213.0	10.37.213.1 to 10.37.213.254	10.37.213.255
22	MHT Users	10.37.22.0	10.37.22.1 to 10.37.22.126	10.37.22.127	86	Future	10.37.86.0	10.37.86.1 to 10.37.86.254	10.37.86.255	1	150	Future	10.37.150.0	10.37.150.1 to 10.37.150.254	10.37.150.255	214	Future	10.37.214.0	10.37.214.1 to 10.37.214.254	10.37 214 255
23	Future	10.37.23.0	10.37.23.1 to 10.37.23.254	10.37.23.255	87	Future	10.37.87.0	10.37.87.1 to 10.37.87.254	10.37.87.265	1	151	Future	10.37.151.0	10.37.151.1 to 10.37.151.254	10.37 151 265	215	Future	10.37.215.0	10.37.215.1 to 10.37.215.254	10.37.215.255
24	MHT Accounting Use	ers 10.37.24.0	10.37.24.1 to 10.37.24.254	10.37.24.255	88	Future	10.37.88.0	10.37.88.1 to 10.37.88.254	10.37.88.255	1	152	Future	10.37.152.0	10.37.152.1 to 10.37.152.254	10 37 152 255	216	Future	10.37.216.0	10.37.216.1 to 10.37.216.254	10.37.216.255
25	Admin Users	10.37.25.0	10.37.25.1 to 10.37.25.254	10.37.25.255	89	Future	10.37.89.0	10.37.89.1 to 10.37.89.254	10.37.89.255	1	153	Future	10.37,153.0	10.37.153.1 to 10.37.153.254	10.37.153.255	217	Future	10.37.217.0	10.37.217.1 to 10.37.217.254	10.37.217.255
26	MHT Wireless Authe	nticat 10.37.26.0	10.37.26.1 to 10.37.26.254	10.37.26.255	90	Future	10.37.90.0	10.37.90.1 to 10.37.90.254	10.37.90.255	1	154	Future	10.37.154.0	10.37.154.1 to 10.37.154.254	10.37 154.255	218	Future	10.37.218.0	10.37.218.1 to 10.37.218.254	10.37.218.255
27	LEO Users	10.37.27.0	10.37.27.1 to 10.37.27.254	10.37.27.255	91	Future	10.37.91.0	10.37.91.1 to 10.37.91.254	10.37.91.255	1	155	Future	10.37.155.0	10.37.155.1 to 10.37.155.254	10.37 155.255	219	Future	10.37.219.0	10.37.219.1 to 10.37.219.254	10.37.219.255
28	MHT Building Maint		10.37.28.1 to 10.37.28.254	10.37 28.255	82	Future	10.37.92.0	10.37.92.1 to 10.37.92.254	10.37.92.255		156	Furture	10.37.156.0	10.37 156 1 to 10.37 156 254	10.37 156.255	220	Future		10.37.220.1 to 10.37.220.254	10.37.220.255
29		10 37 29 0	10.37.29 1 to 10.37.29.254	10.37.29.255		Future	10.37.93.0	10 37 93 1 to 10 37 93 254	10 37 93 265		157	0.000	10.37.157.0	10.37.157.1 to 10.37.157.254	10.37.157.255	221	Esture	10.37.221.0	10 37 221 1 to 10 37 221 254	10.37 221 255
E DIVIN		1		Same and a	8	7			Section Control		100	- CONTROL				3 700	Future			
30	MHT Printers	10.37.30.0	10.37.30.1 to 10.37.30.254	10.37.30.255	94	Future	10.37.94.0	10.37.94.1 to 10.37.94.254	10.37.94.255	1	158	Future	10.37.158.0	10.37.158.1 to 10.37.158.254	10.37.158.255	222	Future	10.37.222.0	10.37.222.1 to 10.37.222.254	10.37.222.255
31	MHT Security Users	10.37.31.0	10.37.31.1 to 10.37.31.254	10.37.31.127	95	Future	10.37.96,0	10.37.95.1 to 10.37.95.254	10.37.95.255	1	159	Future	10.37,159.0	10.37.159.1 to 10.37.159.254	10.37.159.255	223	Future	10.37.223.0	10.37.223.1 to 10.37.223.254	10.37.223.255
32	MHT Fingerprint Sys	stem 10.37.32.0	10.37.32.1 to 10.37.32.254	10.37.32.127	96	Future	10.37.96.0	10.37.96.1 to 10.37.96.254	10.37.96.255	. 1	160	Future	10.37,160.0	10.37.160.1 to 10.37.160.254	10.37.160.255	224	Future	10.37.224.0	10.37.224.1 to 10.37.224.254	10.37.224.255
33	Guest	10.37.33.0	10.37.33.1 to 10.37.33.254	10.37.33.127	97	Future	10.37.97.0	10.37.97.1 to 10.37.97.254	10.37.97.255	_ 3	161	Future	10.37.161.0	10.37.161.1 to 10.37.161.254	10.37.161.255	225	Future	10.37.225.0	10.37.225.1 to 10.37.225.254	10.37.225.255
34	Future	10.37.34.0	10.37.34.1 to 10.37.34.254	10.37.34.127	98	Future	10.37.98.0	10.37.98.1 to 10.37.98.254	10.37.98.255	1	162	Future	10.37.162.0	10.37.162 1 to 10.37.162.254	10.37 162 255	226	Future	10.37,226.0	10.37.226.1 to 10.37.226.254	10.37.226.255
35	Future	10.37.35.0	10.37.35.1 to 10.37.35.254	10.37.35.127	99	Future	10.37.99.0	10.37.99.1 to 10.37.99.254	10.37.99.255	1	163	Future	10.37.163,0	10.37.163.1 to 10.37.163.254	10.37.163.255	227	Future	10.37.227.0	10.37.227.1 to 10.37.227.254	10.37 227 255
36	Future	10.37.36.0	10.37.36.1 to 10.37.36.254	10.37.36.127	100	Militown	10.37.100.0	10.37.100.1 to 10.37.100.254	10.37.100.255	-1	164	Future	10.37.164.0	10.37.164.1 to 10.37.164.254	10.37.164.255	228	Future	10.37.228.0	10.37.228.1 to 10.37.228.254	10.37.228.255
37	Future	10.37.37.0	10.37.37.1 to 10.37.37.254	10.37.37.127	101	Hudson-Manchester	10.37.101.0	10.37.101.1 to 10.37.101.254	10.37.101.255		165	Future	10.37.165.0	10.37.165.1 to 10.37.165.254	10.37.165.255	229	Future	10.37.229.0	10.37.229.1 to 10.37.229.254	10.37.229.255
38	Future	10.37.38.0	10.37.38.1 to 10.37.38.254	10.37.38.127	102	Ben and Jerry's	10.37,102.0	10.37.102.1 to 10.37.102.254	10,37,102,255		166	Future	10.37.166.0	10.37.166.1 to 10.37.166.254	10.37 166.255	230	Future	10.37.230.0	10.37.230.1 to 10.37.230.254	10.37.230.255
20	Future	10.37.39.0	10.37 39.1 to 10.37.39.254	10.37.39.127	103	Maria de Caraca	10.37.103.0	10.37.103.1 to 10.37.103.254	10.37.103.255	E	167		10.37,167.0	10.37.167.1 to 10.37.167.254	10.37.167.255	231	Future		10.37.231.1 to 10.37.231.254	10.37.231.255
40		10.37.40.0	10.37 40.1 to 10.37 40.254	10.37.40.127	E	International RAM	10.37.104.0	10.37.104.1 to 10.37.104.254	10.37.104.255	E	68	NAME OF THE PARTY	10.37.168.0	10 37 168 1 to 10 37 168 254	10.37.168.255	232		10.37.232.0	10 37 232 1 to 10 37 232 254	10.37 232 255
	Future											A CANTON					False			
41	Future	10.37,41.0	10.37.41.1 to 10.37.41.254	10.37.41.255	105		10.37.105.0	10.37.105.1 to 10.37.105.254	10.37 105 255		169		10.37.169.0	10,37,169.1 to 10,37,169,254	10.37 169.255	233	Latine	10.37.233.0	10.37.233.1 to 10.37.233.254	10.37.233.255
42	Southwest DMZ	10.37,42.0	10.37.42.1 to 10.37.42.254	10.37.42.255	106	Future		10.37.106.1 to 10.37.106.254	10.37.106.255	1	170	Future	10.37.170.0	10.37.170.1 to 10.37.170.254	10.37.170.255	234	- Control of the Cont		10.37.234.1 to 10.37.234.254	10.37 234 255
43	Future	10.37,43.0	10.37.43.1 to 10.37.43.254	10.37.43.255	107	Future	10.37.107.0	10.37.107.1 to 10.37.107.254	10.37.107.255	1	171	Future	10.37.171.0	10.37.171.1 to 10.37.171.254	10.37.171.255	235	Future	10.37.235.0	10.37.235.1 to 10.37.235.254	10.37.235.255
44	Future	10.37.44.0	10.37.44.1 to 10.37.44.254	10.37.44.255	108	Future	10.37.108.0	10.37.108.1 to 10.37.108.254	10.37.108.255	1	172	Future	10.37.172.0	10.37.172.1 to 10.37.172.254	10.37.172.255	236	Future	10.37.236.0	10.37.236.1 to 10.37.236.254	10.37.236.255
45	Johnson Controls	10.37.45.0	10.37.45.1 to 10.37.45.254	10.37.45.255	109	Future	10.37,109.0	10.37.109.1 to 10.37.109.254	10.37.109.255	. 1	173	Future	10.37.173.0	10.37 173.1 to 10.37.173.254	10.37 173.255	237	Future	10.37.237.0	10.37.237.1 to 10.37.237.254	10.37.237.255
46	Future	10.37.46.0	10.37.46.1 to 10.37.46.254	10.37.46.255	110	Future	10.37,110.0	10.37.110.1 to 10.37.110.254	10.37.110.255	1	174	Future	10.37.174.0	10.37.174.1 to 10.37.174.254	10.37 174 255	238	Future	10.37.236.0	10.37.238.1 to 10.37.238.254	10.37,238,255
47	Future	10.37.47.0	10.37.47.1 to 10.37.47.254	10,37,47,255	111	Future	10.37.111.0	10.37.111.1 to 10.37.111.254	10.37.111.255	1	175	Future	10.37.175.0	10.37.175.1 to 10.37.175.254	10.37.175.265	239	Future	10,37,239,0	10.37.239.1 to 10.37.239.254	10.37.239.265
48	Future	10.37,48,0	10.37.48.1 to 10.37.48.254	10,37,48,255	112	Future	10.37.112.0	10.37.112.1 to 10.37.112.254	10.37.112.255	1	176	Future	10.37.176,0	10.37.176.1 to 10.37.176.254	10.37.176.255	240	Future	10,37.240.0	10.37.240.1 to 10.37.240.254	10.37.240.255
49	Future	10.37.49.0	10.37.49.1 to 10.37.49.254	10.37.49.255		Future	10.37.113.0	10.37 113.1 to 10.37 113.254	10.37.113.255	- 1	177	Future	10.37.177.0	10.37.177.1 to 10.37.177.254	10.37.177.255	241	Future	10.37.241.0	10.37.241.1 to 10.37.241.254	10.37.241.255
	Future		10.37.50.1 to 10.37.50.254	10.37.50.255		Future	1	10.37.114.1 to 10.37.114.254	10.37.114.255	3.00	178	*********		10 37 178 1 to 10 37 178 254	10.37 178 255		Future		10 37 242 1 to 10 37 242 254	10.37.242.255
1	Future	0.740	10.37.51.1 to 10.37.51.254	10.37.51.255		Future	Carrier and Control	10.37.115.1 to 10.37.115.254	10.37.115.255		179		Contract No.	10.37.179.1 to 10.37.179.254	10.37.179.255		Future		10.37.243.1 to 10.37.243.254	10.37.242.255
						G.				1										
	Future	- Lancas and	10.37 52.1 to 10.37 52.254	10.37.52.255	L	Future	- Transport	10.37.116.1 to 10.37.116.254	10.37,116.255		180	and the second	10,37,180.0	10.37 180 1 to 10.37 180 254	10.37.180.255		Future	Lancas constant	10.37.244.1 to 10.37.244.254	10.37.244.255
S. Control	Future		10.37.53.1 to 10.37.53.254	10.37.53.255	Barrier	Future	January 1997	10.37.117.1 to 10.37.117.254	10.37.117.255			Future		10.37.181.1 to 10.37.181.254	10.37.181.255		Future	Announce :	10.37.245.1 to 10.37.245.254	10.37.245.265
54	Future		10.37.54.1 to 10.37.54.254	10.37.54.255	118	Dunkn Donuts	10.37.118.0	10.37.118.1 to 10.37.118.254	10.37.118.255	- 5	182	Future		10.37.182.1 to 10.37.182.254	10.37.182.255		Future		10.37.246.1 to 10.37.246.254	10.37.246.255
55	Signs	10.37.55.0	10.37.55.1 to 10.37.55.254	10.37.55.255	119	Audax Technologies	10.37.119.0	10.37,119.1 to 10.37 119.254	10.37.119.255	- 1	183	Future	10.37.183.0	10.37 183.1 to 10.37 183.254	10.37 183 255	247	Future	10.37.247.0	10.37.247.1 to 10.37.247.254	10.37.247.255
56	Future	10.37.56.0	10.37.56.1 to 10.37.56.254	10.37.56.255	120	VLAN 709	10.37.120.0	10.37.120.1 to 10.37.120.254	10.37.120.255	- 1	84	Future	10.37.184.0	10.37.184.1 to 10.37.184.254	10.37.184.255	248	Future	10.37.248.0	10.37.248.1 to 10.37.248.254	10.37.248.255
.57	Future	10.37.57.0	10.37.57.1 to 10.37.57.254	10.37.57.255	121	City Network	10.37.121.0	10.37.121.1 to 10.37.121.254	10.37.121.255		85	Future	10,37,185.0	10.37 185.1 to 10.37 185.254	10.37.185.255	249	Future	10.37.249.0	10.37.249.1 to 10.37.249.254	10.37 249 255
58	Future	10.37.58.0	10.37.58.1 to 10.37.58.254	10.37.58.255	122	External Network	10.37,122.0	10.37.122.1 to 10.37.122.254	10.37.122.255	*	186	Future	10.37.186.0	10.37.186.1 to 10.37.186.254	10.37.186.255	250	Future	10.37.250.0	10.37.250.1 to 10.37.250.254	10.37.250.255
1	Future		10.37.59.1 to 10.37.59.254	10.37.59.255	1	FDDI Default		10.37.123.1 to 10.37.123.254	10.37.123.255		187			10.37.187.1 to 10.37.187.254	10.37 187.255		Future		10.37.251.1 to 10.37.251.254	10.37.251.255
Section 1	Camera	10.37,60.0	London	10.37.60.255	E	FDDinet Default	Control Control Control	10.37.124.1 to 10.37.124.254	10.37.124,255	4	188		10.37.188.0	10.37.188.1 to 10.37.188.254	10.37.188.255	L. marie	Future	Carlo and a	10.37.252.1 to 10.37.252.254	10.37.252.265
												University of					- Control			
	Future		10.37.61.1 to 10.37.61.254	10.37.61.255		TRBF Default		10.37.125.1 to 10.37 125.254	10.37 125 255		189		10.37.189.0	10.37.189.1 to 10.37 189.254	10.37 189.255		Future		10.37.253.1 to 10.37.253.254	10.37.253.255
	Future		10.37.62.1 to 10.37.62.254	10.37.62.255		Future		10.37.126.1 to 10.37 126.254	10.37.126.255		190			10.37 190.1 to 10.37 190.254	10.37 190.255	254	Network Management	19.37.254.0	10.37.254.1 to 10.37.254.254	10.37 254 255
63	Future	10.37.63.0	10.37.63.1 to 10.37.63.254	10.37 63 265	127	Future	10.37.127.0	10.37.127.1 to 10.37.127.254	10.37.127.255	- 1	191	Future	10.37.191.0	10.37.191.1 to 10.37.191.254	10.37.191.255					

FUTURE FACILITY (38)

-	Eur	uwa Fa	-1116 v	10.00	0.0/04	· T	NAI	IT ID A		TOKE	- 1		, ,				12				
W AN		ture Fa			.0.0/24	A			ddressing Plan	Decadand		// AN I	Function	Maturada	Ittests	I Broad sand	WAN	Eunstion	Maturada	Tueste	Incordorad
VLAN	Function Core Uplinks	Network 10 38 0.0	Hosts 10.38 0.1 to 10.38 0.254	Broadcast 10.38.0.255	VL	- 1	Function Core Uplints	Network 10:38:64:0	Hosts 10 38 64 1 to 10 38 64 254	10.38 64.255	, v	VLAN	Function Core Uplinks	Network 10 38 128 0	Hosts 10.38.128 1 to 10.38 128 254	10.38 128 255	VLAN	Function Core Uplinis	Network 10.38.192.0	Hosts 10 38 192 1 to 10 38 192 254	10.38 192.255
- 11	Default	10.38.1.0	10.38.1.1 to 10.38.1.254	10.38 1.255			Sity Unrouted	10.38.65.0	10.38.65.1 to 10.38.65.254	10.38 65.255		129		10.38.129.0	10.38.129.1 to 10.38.129.254	10.38 129.255	193		10.38.193.0	10.38.193.1 to 10.38 193.254	10.38 193.255
2	Admin	10.38.2.0	10.38.2.1 to 10.38.2.254	10.38.2.255			uture	10.38.66.0	10.38.66.1 to 10.38.66.254	10.38.66.255		130	Future	10.38.130.0	10.38.130.1 to 10.38.130.254	10.38.130.255	194	Future	10.38.194.0	10.38.194.1 to 10.38.194.254	10.38.194.255
3	FIDS	10.38.3.0	10.38.3.1 to 10.38.3.254	10.38.3.255		101	uture	10.38.67.0	10 38 67 1 to 10 38 67 254	10.38.67.255			Future	10.38.131.0	10 38 131 1 to 10 38 131 254	10.38.131.255	195	Future	10.38.195.0	10.38.195.1 to 10.38.195.254	10.38.195.255
					1	- 4												Bosches		10.38 196 1 to 10.38 196 254	
4.1	Security	10.38.4.0	10.38.4.1 to 10.38.4.254	10.38.4.255	4	68 F			10.38.68.1 to 10.38.68.254	10.38.68.255		132		10.38.132.0	10.38.132.1 to 10.38.132.254	10.38 132.255	196	Future	10.38.196.0		10.38 196 255
. 5	Security Camera	10.38.5.0	10.38.5.1 to 10.38.5.254	10.38 5.255	0		uture	10.38.69.0	10.38.69.1 to 10.38.69.254	10.38.69.255		-200	Future	10.38.133.0	10.38 133 1 to 10.38 133 254	10.38 133.255	197	Future	10.38.197.0	10.38.197.1 to 10.38.197.254	10.38 197.255
6	Taxi	10.38,6.0	10.38.6.1 to 10.38.6.254	10.38 6.255	3 3	70 F	Power Related	10.38.70.0	10.38.70.1 to 10.38.70.254	10.38.70.255	3	134	Future	10.38.134.0	10.38.134 1 to 10.38.134.254	10.38 134 255	198	Future	10.38.198.0	10.38.198.1 to 10.38.198.254	10.38 198 255
7	HVAC	10.38.7.0	10.38.7.1 to 10.38.7.254	10.38.7.255	- 7	71 F	uture	10.38.71.0	10,38.71.1 to 10.38.71.254	10.38.71.255	-	135	Future	10.38.135.0	10,38 135 1 to 10.38 135 254	10.38 135.255	199	Future	10.38,199.0	10.38 199.1 to 10.38 199.254	10.38.199.255
8	Comcast - Passenger	10.38.8.0	10.38.8.1 to 10.38.8.254	10.38.8.255	7	72 F	uture	10.38.72.0	10.38.72.1 to 10.38.72.254	10.38 72.255	5	136	Future	10.38.136.0	10.38.136.1 to 10.38.136.254	10.38 136.255	200	Future	10.38.200.0	10.38 200.1 to 10.38 200.254	10.38 200.255
9	WiFi Private	10.38.9.0	10.38.9.1 to 10.38.9.254	10.38.9.255	2	73 F	future	10.38.73.0	10.38.73.1 to 10.38.73.254	10.38.73.255		137	Future	10.38.137.0	10.38.137.1 to 10.38.137.254	10:38.137.255	201	Future	10.38.201.0	10.38.201.1 to 10.38.201.254	10.38.201.255
10	Comcast - Personnel	10.38.10.0	10.38.10.1 to 10.38.10.254	10.38.10.127	7	74 F	uture	10.38.74.0	10.38.74.1 to 10.38.74.254	10.38.74.255		138	Future	10.38.138.0	10.38.138.1 to 10.38.138.254	10.38.138.255	202	Future	10.38.202.0	10.38.202.1 to 10.38.202.254	10.38.202.255
11	iLO	10.38.11.0	10.38.11.1 to 10.38.11.254	10.38 11.255	- 7	75 F	uture	10.38.75.0	10.38.75.1 to 10.38.75.254	10.38.75.255		139	Future	10.38.139.0	10.38.139.1 to 10.38.139.254	10.38 139 255	203	Future	10.38.203.0	10.38.203.1 to 10.38.203.254	10.38.203.255
12	Conveyor	10.38.12.0	10.38.12.1 to 10.38.12.254	10.38.12.255	= 7	76 F	uture	10.38.76.0	10.38.76.1 to 10.38.76.254	10.38.76.255	9	140	Future	10.38.140.0	10.38.140.1 to 10.38.140.254	10.38 140.255	204	Future	10.38.204.0	10.38.204.1 to 10.38.204.254	10.38.204.255
13	Future	10.38.13.0	10.38.13.1 to 10.38.13.254	10.38 13.255	6	-11	uture	10.38.77.0	10.38.77.1 to 10.38.77.254	10.38.77.255		141	Future	10.38.141.0	19.38.141.1 to 10.38.141.254	10.38 141.255	205	Future	10.38.205.0	10.38.205.1 to 10.38.205.254	10.38.205.255
	VMWare Vmotion	10.38.14.0	10.38.14.1 to 10.38.14.254	10.38 14.255		78 F		10.38.78.0	10.38.78.1 to 10.36.78.254	10.38.78.255		142		10.38.142.0	10.38.142.1 to 10.38.142.254	10.38 142 255	206		10.38.206.0	10.38.206.1 to 10.38.206.254	10.38.206.255
- 17													MANAGE OF THE PARTY OF THE PART				207	Falor			
10	Wireless Infrastructure	10.38.15.0	10.38.15.1 to 10.38.15.126	10.38 15.127	1	79 F	uture	10.38.79.0	10.38.79.1 to 10.38.79.254	10.38 79.255			Future	10.38.143.0	10.38.143.1 to 10.38.143.254	10.38 143.255		Future	10.38,207.0	10.38.207.1 to 10.38.207.254	10.38.207.255
16		10.38.16.0	10.38 16.1 to 10.38.16.254	10.38 16 255		ile.	uture		10.38.80.1 to 10.38.80.254	10.38 80 255		144		10.38.144.0	10.38.144.1 to 10.38.144.254	10.38 144 255	208		10.38.208.0	10.38 208 1 to 10.38 208 254	10.38 208 255
3	Future	10.38.17.0	10.38.17.1 to 10.38.17.254	10.38.17.255		- 1	future	10.38.81.0	10.38.81.1 to 10.38.81.254	10.38.81.255		145		10.38.145.0	10.38.145.1 to 10.38.145.254	10.38.145.255	209		10.38.209.0	10.38.209.1 to 10.38.209.254	10.38.209.255
18	Future	10.38.18.0	10.38.18.1 to 10.38.18.254	10.38.18.255	3.	82 F	uture	10.38.82.0	10.38.62.1 to 10.38.82.254	10.38.82.255		146	Future	10.38.146.0	10,38.146.1 to 10.38.146.254	10.38.146.255	210	Future	10.38.210.0	10.38.210.1 to 10.38.210.254	10.38.210.255
19	Future	10.38.19.0	10.38.19.1 to 10.38.19.254	10.38.19.255		83 F	future	10.38.83.0	10.38.83.1 to 10.38.83.254	10.38.83.255		147	Future	10.38.147.0	10.38.147.1 to 10.38.147.254	10.38.147.255	211	Future	10.38.211.0	10.38.211.1 to 10.38.211.254	10.38.211.255
20	MHT Desktops	10.38.20.0	10.38.20.1 to 10.38.20.254	10.38.20.255	8	84 F	uture	10.38.84.0	10,38.84.1 to 10.38.84.254	10.38.84.255		148	Future	10.38.148.0	10.38.148.1 to 10.38.148.254	10.38 148.255	21.2	Future	10.38.212.0	10.38.212.1 to 10.38.212.254	10.38.212.255
21	Future	10.38.21.0	10.38.21.1 to 10.38.21.254	10.38.21.255	. 8	85.	/irtual Cluster Heartbeats	10.38.85.0	10.38.85.1 to 10.38.85.254	10.38.85.255		149	Future	10.38,149.0	10.38.149.1 to 10.38.149.254	10.38 149.255	213	Future	10.38.213.0	10.38.213.1 to 10.38.213.254	10.38.213.255
22	MHT Users	10.38.22.0	10.38.22.1 to 10.38.22.126	10.38 22 127		86 F	uture	10.38.86.0	10.38.86.1 to 10.38.86.254	10.38 86 255		150	Future	10.38.150.0	10.38.150.1 to 10.38.150.254	10.38.150.255	214	Future	10.38.214.0	10.38.214.1 to 10.38.214.254	10.38.214.255
23	Future	10 38 23 0	10 38 23 1 to 10 38 23 254	10.38 23.255	8	87 F	uture	10 38 87.0	10.38.87.1 to 10.38.87.254	10 38 87 255		151	Future	10.38.151.0	10.38.151 1 to 10.38.151.254	10 38 151 255	215	Future	10.38.215.0	10.38.215.1 to 10.38.215.254	10.38.215.255
24	MHT Accounting Users	10.38.24.0	10.38.24.1 to 10.38.24.254	10.38.24.255		88 F	uture	10.38.88.0	10.38.88.1 to 10.38.88.254	10.38.88.255		152	Future	10.38.152.0	10.38.152.1 to 10.38.152.254	10.38.152.255	216	Future	10.38.216.0	10.38.216.1 to 10.38.216.254	10.38.216.255
26	Admin Users	10.38.25.0	10.38.25.1 to 10.38.25.254	10.38 25 255	8	89 F	uture	10.38.89.0	10.38.89.1 to 10.38.89.254	10.38.89.255		153	Future	10.38.153.0	10.38.153.1 to 10.38.153.254	10.38 153.255	217	Future	10.38.217.0	10.38.217.1 to 10.38.217.254	10.38.217.255
26	MHT Wireless Authentics	Caracan	10.38.26.1 to 10.38.26.254	10.38.26.255	8		future	10.38.90.0	10.38.90.1 to 10.38.90.254	10.38.90.255		154		10.38.154.0	10.38.154.1 to 10.38.154.254	10.38.154.255	218	Future	10.38.218.0	10.38.218.1 to 10.38.218.254	10.38.218.255
	LEO Users	10.38.27.0	10.38.27.1 to 10.38.27.254	10.38.27.255	1000	91 F	- Contract		10.38.91.1 to 10.38.91.254	10.38.91.255		155	A COLOR	10.38.155.0	10.38.155.1 to 10.38.155.254	10.38 155 255	219		10.38.219.0	10.38.219.1 to 10.38.219.254	10.38.219.255
							utule					156	Future	10.38.156.0			210	Future			
	MHT Building Maintenar		10.38.28.1 to 10.38.28.254	10.38 28 255		92 F	uture	10.38.92.0	10.38.92.1 to 10.38.92.254	10.38 92 255		1100	Future	-	10.38.156.1 to 10.38.156.254	10.38 156 255	220	Future	10.38.220.0	10.38.220.1 to 10.38.220.254	10.38 220 255
	MHT TSA Users	10.38.29.0	10.38.29.1 to 10.38.29.254	10 38 29 265		7	uture	10.38.93.0	10 38 93.1 to 10.38 93 254	10 38 93 265		157	0-9/200	10.38.157.0	10.38.157.1 to 10.38.157.254	10.38.157.255	221	249)01	10.38.221.0	10.38.221.1 to 10.38.221.254	10 38 221 255
30	MHT Printers	10.38.30.0	10.38.30.1 to 10.38.30.254	10.38.30.255	6	94 F	uture	10.38.94.0	10.38.94:1 to 10.38.94.254	10.38.94.255	5	158	Future	10.38.158.0	10.38.158.1 to 10.38.158.254	10.38.158.255	222	Future	10.38.222.0	10.38.222.1 to 10.38.222.254	10.38.222.255
91	MHT Security Users	10.38.31,0	10.38.31.1 to 10.38.31.254	10.38.31.127		95 F	uture	10.38.95,0	10.38.95.1 to 10.38.95.254	10.38.95.255		159	Future	10.38.159.0	10.38.159.1 to 10.38.159.254	10 38 159 255	223	Future	10.38.223.0	10.38.223.1 to 10.38.223.254	10.38.223.255
32	MHT Fingerprint System	10.38.32.0	10.38.32.1 to 10.38.32.254	10.38.32.127		96 F	uture	10.38.96.0	10.38.96.1 to 10.38.96.254	10.38.96.255		160	Future	10.38.160.0	10.38 160 1 to 10.38 160 254	10.38.160.255	224	Future	10.38.224.0	10.38.224.1 to 10.38.224.254	10.38.224.255
33	Guest	10.38.33.0	10.38.33.1 to 10.38.33.254	10.38.33.127	- 6	97 F	uture	10.38.97.0	10.38.97.1 to 10.38.97.254	10.38.97.255	5	161	Future	10.38.161.0	10.38.161.1 to 10.38.161.254	10.38 161.255	225	Future	10.38.225.0	10.38.225.1 to 10.38.225.254	10.38.225.255
34	Future	10.38.34.0	10.38.34.1 to 10.38.34.254	10.38.34.127		98 F	uture	10.38.98.0	10.38.98.1 to 10.38.98.254	10 38 98 255		162	Future	10.38.162.0	10.38.162.1 to 10.38.162.254	10.38 162 255	226	Future	10.38.226,0	10.38.226.1 to 10.38.226.254	10.38.226.255
35	Future	10.38.35.0	10.38.35.1 to 10.38.35.254	10.38 35.127	- 5	99 F	uture	10.38.99.0	10.38.99.1 to 10.38.99.254	10.38.99.255		163	Future	10.38.163.0	10.38.163.1 to 10.38.163.254	10.38 163.255	227	Future	10.38.227.0	10.38.227.1 to 10.38.227.254	10.38 227 255
36	Future	10.38.36.0	10.38.36.1 to 10.38.36.254	10.38.36.127	1	00 A	Militown	10.38.100.0	10.38.100.1 to 10.38.100.254	10.38.100.255	<u> </u>	164	Future	10.38.164.0	10.38.164.1 to 10.38.164.254	10.38.164.255	228	Future	10.38.228.0	10.38.228.1 to 10.38.228.254	10.38.228.255
37	Future	10.38.37.0	10.38.37.1 to 10.38.37.254	10.38.37.127	1	01	Audson-Manchester	10.38.101.0	10.38.101.1 to 10.38.101.254	10.38.101.255	8	165	Future	10.38.165.0	10.38.165.1 to 10.38.165.254	10.38.165.255	229	Future	10.38.229.0	10.38.229.1 to 10.38.229.254	10.38.229.255
38	Future	10.38.38.0	10 38 38 1 to 10 38 38 254	10.38.38.127			Ben and Jeny's	10.38.102.0	10.38.102.1 to 10.38.102.254	10.38.102.255		166		10.38.166.0	10.38.166.1 to 10.38.166.254	10.38 166 255	230		10.38.230.0	10.38.230.1 to 10.38.230.254	10.38.230.255
£	Future	10.38.39.0	10.38.39.1 to 10.38.39.254	10.38.39.127	E		Vorldwide Flight Svc		10.38.103.1 to 10.38.103.254	10.38 103.255		167		10.38.167.0	10.38.167.1 to 10.38.167.254	10.38 167.255	231	4	10.38.231.0	10.38.231.1 to 10.38.231.254	10.38.231.255
	Fulle	1	The second secon	December 1	F		International State of the Control o			Secretary and the second	9		Table 1	I		Constraint and	E une d	a la company			Annual control
40	Future	10.38.40.0	10.38.40.1 to 10.38.40.254	10.38.40.127			nternational RAM	10.38.104.0	10.38.104 1 to 10.38 104.254	10.38 104.255		168	Marketon .	10.38.168.0	10.38.168 1 to 10.38.168.254	10.38 168 255	232		10.35.232.0	10.38.232.1 to 10.38.232.254	10.38.232.255
	Future	10.38.41.0	10.38.41.1 to 10.38.41.254	10.38.41.255		05 [10,38,105.1 to 10,38,105,254	10.38 105 255		169	Ananya.	10.38.169.0	10,38,169 1 to 10.38 169.254	10.38 169.255	233		10.38.233.0	10.38.233.1 to 10.38.233.254	10.38.233.255
42	Southwest DMZ	10.38.42.0	10.38.42.1 to 10.38.42.254	10.38.42.255	1	06 F	uture	10.38.106.0	10.38.106.1 to 10.38.106.254	10.38 106 255		170	Future	10.38.170.0	10.38.170.1 to 10.38.170.254	10.38 170.255	234	Future	10.38.234.0	10.38.234.1 to 10.38.234.254	10.38.234.255
43	Future	10.38.43.0	10.38.43.1 to 10.38.43.254	10.38.43.255	1	07 F			10.38.107.1 to 10.38.107.254	10.38.107.255		171	Future	77-10-10-10-10-10-10-10-10-10-10-10-10-10-	10.38.171.1 to 10.38.171.254	10.38.171.255	235	Future	10.38.235.0	10.38.235.1 to 10.38.235.254	10.38.235.255
44	Future	10.38.44.0	10.38.44.1 to 10.38.44.254	10.38.44.255	10	08 F	uture	10.38.108.0	10.38.108.1 to 10.38.108.254	10.38.108.255		172	Future	10.38.172.0	10:38:172:1 to 10:38:172:254	10.38 172.255	236	Future	10.38.236.0	10.38.236.1 to 10.38.236.254	10.38.236.255
45	Johnson Controls	10.38.45.0	10.38.45.1 to 10.38.45.254	10.38.45.255	.1	09 F	uture	10.38.109.0	10.38.109 1 to 10.38.109.254	10.38.109.255		173	Future	10.38.173.0	10.38.173.1 to 10.38.173.254	10.38 173.255	237	Future	10.38.237.0	10.38.237.1 to 10.38.237.254	10.38.237.255
46	Future	10.38.46.0	10.38.46.1 to 10.38.46.254	10.38.46.255	1	10 F	future	10.38.110.0	10.38,110.1 to 10.38,110,254	10.38.110.255		174	Future	10.38.174.0	10.38.174.1 to 10.38.174.254	10.38 174.255	238	Future	10.38.238.0	10.38.238.1 to 10.38.238.254	10.38.238.255
47	Future	10.38.47.0	10.38.47.1 to 10.38.47.254	10.38.47.255	5 7	11 F	uture	10.38.111.0	10.38.111.1 to 10.38.111.254	10.38 111.255	5	175	Future	10.38.175.0	10.38.175.1 to 10.38.175.254	10.38 175 255	239	Future	10.35.239.0	10.38.239.1 to 10.38.239.254	10.38.239.255
48	Future	10.38.48.0	10.38.48.1 to 10.38.48.254	10.38.48.255	1	12 F	future	10.38.112.0	10.38 112 1 to 10.38 112 254	10.38 112.255		176	Future	10.38.176.0	10.38.176.1 to 10.38.176.254	10.38 176.255	240	Future	10.38.240.0	10.38.240.1 to 10.38.240.254	10.38.240.255
	Future		10.38.49.1 to 10.38.49.254	10.38.49.255		13 F			10.38.113.1 to 10.38.113.254	10.38 113 255		177			10.38.177.1 to 10.38.177.254	10.38 177.255	241			10.38 241.1 to 10.38.241.254	10.38.241.255
	Future	The second secon	10.38 50.1 to 10.38 50.254	10.38 50 255		14 F	14000		10.38 114 1 to 10.38 114.254	10.38 114.255		178	233003.0	James South	10.38.178 1 to 10.38 178 254	10.38 178 255	242	1010001	-	10.38.242 1 to 10.38.242.254	10.38 242 255
	Future		3	10.38.51.255					Application of the control of the co	10.38.115.255					10.38.179.1 to 10.38.179.254	10.38 179 255					10.38.243.255
3						15 F						179					243			10.38.243.1 to 10.38.243.254	
Same of	Future	Service territories	10.38.52.1 to 10.38.52.254	10.38.52.255	£	16 F		Leaven II	10.38.116.1 to 10.38.116.254	10.38.116.255		180	55.5		10.38.180.1 to 10.38.180.254	10.38 180 255	244		Lancaca and the same of	10.38.244.1 to 10.38.244.254	10.38.244.255
S. Contract	Future			10.38 53.255		17 F	COLUMN TO THE THE THE THE	anna anna anna an	a attack of the body of the transport of the transport	10.38,117,255		181			10.38.181.1 to 10.38.181.254	10.38 181.255	245	GENT TO CO		10.38.245.1 to 10.38.245.254	10.38.245.255
54	Future	10.38.54.0	10.38.54.1 to 10.38.54.254	10.38.54.255	- 1	18 [Junkin Donuts	10.38.118.0	19.38.118.1 to 10.38.118.254	10.38 118 255		182	Future	10.38.182.0	10.38.182 1 to 10.38.182.254	10.38 182 255	246	Future	10.38.246.0	10.38.246.1 to 10.38.246.254	10.38.246.255
55	Signs	10.38.55.0	10.38.55.1 to 10.38.55.254	10.38.55.255	1	19 A	Audax Technologies	10.38.119.0	10.38.119.1 to 10.38.119.254	10.38 119.255		183	Future	10.38,183.0	10.38.183.1 to 10.38.183.254	10.38 183.255	247	Future	10.38.247.0	10.38.247.1 to 10.38.247.254	10.38.247.255
56	Future	10.38.56.0	10.38.56.1 to 10.38.56.254	10.38 56 255	- 1	20	/LAN 709	10.38.120.0	10.38.120.1 to 10.38.120.254	10.38 120 255		184	Future	10.38.184.0	10.38.184.1 to 10.38.184.254	10.38.184.255	248	Future	10.38.248.0	10.38 248 1 to 10.38 248 254	10.38.248.255
.67	Future	10.38.57.0	10.38.57.1 to 10.38.57.254	10.38 57 255	. 1.	21 0	City Network	10.38.121.0	10.38.121 1 to 10.38.121.254	10.38.121.255		185	Future	10.38.185.0	10.38.185.1 to 10.38.185.254	10.38 185.255	249	Future	10.38.249.0	10.38.249.1 to 10.38.249.254	10.38 249 255
58	Future	10.38.58.0	10.38.58.1 to 10.38.58.254	10.38.58.255	1	22 E	xtemal Network	10.38.122.0	10.38.122.1 to 10.38.122.254	10.38.122.255		186	Future	10.38.186.0	10.38.186.1 to 10.38.186.254	10.38.186.255	250	Future	10.38.250.0	10.38.250.1 to 10.38.250.254	10.38.250.255
59	Future	10.38.59.0	10.38.59.1 to 10.38.59.254	10.38.59.255	1	23 F	DDI Default	10.38.123.0	10.38.123.1 to 10.38.123.254	10.38.123.255		187	Future	10.38.187.0	10.38.187.1 to 10.38.187.254	10.38.187.255	251	Future	10.38.251.0	10.38.251.1 to 10.38.251.254	10.38.251.255
	Camera		10.38.60.1 to 10.38.60.254	10.38 60.255	<u> </u>		DDinet Default	encontract by	10.38.124.1 to 10.38.124.254	10.38.124,255	£	188	Mod	A Company of the Company	10.38.188.1 to 10.38.188.254	10.38.188.255	252	ALC:	10.38.252.0	10.38.252.1 to 10.38.252.254	10.38.252.265
	Future		A STATE OF THE STA	10.38.61.255			- Ministration of the Control of the		10.38.125.1 to 10.38.125.254	10.38 125.255		189	skitalia d		10.38.189.1 to 10.38.189.254	10.38 189.255		Future		10.38.253 1 to 10.38.253.254	10.38.253.255
	Future		10.38.62.1 to 10.38.62.254	10.38 62 255		26 F			10.38.126.1 to 10.38.126.254	10.38 126.255		190	***************************************		10.38.190 1 to 10.38.190.254	10.38 190.255				10.38.254.1 to 10.38.254.254	10.38 254 255
												1.00					6.54		Committee 1.0		10-94 Sert £00
63	Future	10.38.63.0	10 38 63 1 to 10 38 63 254	10 38 63 265	- 1	27 F	and the same of th	12.30.127.0	10.38.127.1 to 10.38.127.254	10.38 127 255		191	r sa clare	10.56.191.0	10.38.191.1 to 10.38.191.254	10.38 191 255					

FUTURE FACILITY (39)

4	Future Fac	cility	10.39.0.0	/24	MH	IT IP A	ddressing Plan	IONET		4									
VLAN Function	Network	Hosts	Broadcast	THE RESERVE AND ADDRESS OF THE PARTY AND ADDRE		Network	Hosts	Broadcast		VLAN	Function	Network	Hosts	Broadcast	VLAN	Function	Network	Hosts	Broadcast
Core Uplinks	10.39.0.0	10.39 0.1 to 10.39 0.254	10.39 0.255		Core Uplinks	10.39.64.0	10:39:64:1 to 10:39:64:254	10.39 64.255		455	Core Uplin		10.39.128 1 to 10.39.128.254	10.39 128 255		Core Uplinies	10.39.192.0	10 39 192 1 to 10 39 192 254	10.39 192.255
1 Default	10.39.1.0	10.39.1.1 to 10.39.1.254	10.39 1.255			10.39.65.0	10.39.65.1 to 10.39.65.254	10.39 65 255		129		10.39.129.0	10.39.129.1 to 10.39.129.254	10.39 129.255		Future	10.39.193.0	10.39.193.1 to 10.39.193.254	10.39.193.255
2 Admin	10.39.2.0	10.39.2.1 to 10.39.2.254	10.39 2.255	66	3000	10.39.66.0	10.39.66.1 to 10.39.66.254	10.39 66 255			Future	10.39.130.0	10.39.130.1 to 10.39.130.254	10.39.130.255	194	10 CONTO	10.39.194.0	10.39.194.1 to 10.39.194.254	10.39.194.255
3 FIDS	10.39.3.0	10.39.3.1 to 10.39.3.254	10.39.3.255	4		10.39.67.0	10.39.67.1 to 10.39.67.254	10.39.67.255		131		10.39.131.0	10.39.131.1 to 10.39.131.254	10.39 131.255		Future	10.39.195.0	10.39.195.1 to 10.39.195.254	10.39.195.255
4 Security	10.39.4.0		10.39.4.255	68		10.39.68.0	10.39.68.1 to 10.39.68.254	10.39 68 255			Future	10.39.132.0	10.39.132 1 to 10.39.132.254	10.39.132.255	196	Future	10.39.196.0	10.39 196.1 to 10.39 196.254	10.39.196.255
5 Security Camer		10.39.5.1 to 10.39.5.254	10.39.5.255	69	Future	10.39.69.0	10.39.69.1 to 10.39.69.254	10.39.69.255		133	Future	10.39.133.0	10.39.133.1 to 10.39.133.254	10.39.133.255	197	Future	10.39,197.0	10.39.197.1 to 10.39.197.254	10.39.197.255
6 Taxi	10.39,6.0	10.39.5.1 to 10.39.6.254	10.39.6.255	70		10.39.70.0	10.39 70.1 to 10.39.70.254	10.39 70.255		134		10.39.134.0	10.39 134 1 to 10.39 134 254	10.39 134.255	198	Future	10.39.198.0	10.39.198 1 to 10.39.198 254	10.39 198 255
7 HVAC	10.39.7.0	10.39.7.1 to 10.39.7.254	10.39.7.255	71		10.39.71.0	10,39.71.1 to 10.39.71.254	10.39.71.255		135	Future	10.39.135.0	10,39.135.1 to 10.39.135.254	10.39 135 255	199	Future	10.39.199.0	10.39.199.1 to 10.39.199.254	10.39.199.255
B Comcast - Pass	((0,0)(0,1)(0,1)	10.39.8.1 to 10.39.8.254	10.39.8.255	72		10.39.72.0	10.39.72.1 to 10.39.72.254	10.39 72 255		136	-	10.39.136.0	10.39.136.1 to 10.39.136.254	10.39 136,255	200	-	10.39.200.0	10.39.200.1 to 10.39.200.254	10.39 200.255
9 WiFi Private	10.39.9.0 onnel 10.39.10.0	10.39.9.1 to 10.39.9.254	10.39.9.255	73	- Course	10.39.73.0	10.39.73.1 to 10.39.73.254	10.39.73.255		137	12000	10.39.137.0	10.39.137.1 to 10.39.137.254	10.39.137.255		Future	10.39.201.0	10.39.201 1 to 10.39.201.254	10.39.201.255
10 Comcast - Pers		10.39.10.1 to 10.39.10.254	10.39.10.127				10.39.74.1 to 10.39.74.254	10.39.74.255		138	Future			10.39 138 255	202		10.39.202.0	10.39.202.1 to 10.39.202.254	10 39 202 255
11 ILO	10.39.11.0		10.39.11.255	75		10.39.75.0	10.39.75.1 to 10.39.75.254	10.39.75.255		139	Future	10.39.139.0	10.39 139 1 to 10.39 139 254	10.39 139 255	203	No.	10.39.203.0	10.39.203.1 to 10.39.203.254	10.39.203.255
12 Conveyor	10.39.12.0	10.39.12.1 to 10.39.12.254 10.39.13.1 to 10.39.13.254	10.39 13.255	77	en en en en en en en en en en en en en e	10.39.76.0	10.39.76.1 to 10.39.76.254	10.39.76.255		141	Future	10.39.140.0	10.39.140.1 to 10.39.140.254	10.39 140.255	204	CAUCHA CONTRACTOR OF THE CONTR	10.39.204.0	10.39.204.1 to 10.39.204.254 10.39.205.1 to 10.39.205.254	10.39.204.255
14 VMWare Vmoti		10.39.14.1 to 10.39.14.254	10.39 14 255	78	NAME OF TAXABLE PARTY.	10.39.78.0	10.39.78.1 to 10.39.78.254	10.39 78 255	-		Future	10.39.142.0	10.39.142.1 to 10.39.142.254	10.39.142.255	206		10.39.206.0	10.39.206.1 to 10.39.206.254	10.39.206.255
15 Wireless Infrast		10.39.15.1 to 10.39.15.126	10.39 15.127	79	NO. 100.00	10.39.79.0	10.39.79.1 to 10.39.79.254	10.39.79.255		143		10.39.143.0	10.39.143.1 to 10.39.143.254	10.39 143.255	207		10.39.207.0	10.39.207 1 to 10.39.207.254	10.39 207 255
16 Future	10.39.16.0	10 39 16 1 to 10 39 16 254	10.39 16 255	80	5,0000	10.39.80.0	10.39.80.1 to 10.39.80.254	10.39 80 255		144	9,04000	10.39.144.0	10.39.144.1 to 10.39.144.254	10.39 144 255	208	10000	10.39.208.0	10 39 208 1 to 10 39 208 254	10.39 208 255
17 Future	10.39.17.0	10.39.17.1 to 10.39.17.254	10.39.17.255	81		10.39.81.0	10.39.61.1 to 10.39.81.254	10.39.81.255		145	Future	10.39.145.0	10.39.145.1 to 10.39.145.254	10.39.145.255	209	Future	10.39.209.0	10.39.209.1 to 10.39.209.254	10.39.209.255
18 Future	10.39.18.0	10.39.18.1 to 10.39.18.254	10.39 18 255	82		10:39.82.0	10.39.82.1 to 10.39.82 254	10.39 82 255		146	Future	10.39.146.0	10.39.146.1 to 10.39.146.254	10.39 146.255	210	Future	10.39.210.0	10.39.210.1 to 10.39.210.254	10.39.210.255
19 Future	10.39.19.0	10.39.19.1 to 10.39.19.254	10.39.19.255	83	65	10.39.83.0	10.39.83.1 to 10.39.83.254	10.39.83.255		147		10.39.147.0	10.39.147.1 to 10.39.147.254	10.39.147.255	£	Future	10.39.211.0	10.39.211.1 to 10.39.211.254	10.39.211.255
20 MHT Desktops	- Contraction of the	10.39.20.1 to 10.39.20.254	10.39 20 255	84	21,000	10.39.84.0	10.39.84.1 to 10.39.84.254	10.39.84.255		148	auso	10.39.148.0	10.39.148.1 to 10.39.148.254	10.39 148.255	212	- Carrier	10.39.212.0	10.39.212.1 to 10.39.212.254	10.39.212.255
21 Future	10.39.21.0	10.39.21.1 to 10.39.21.254	10.39.21.255		Virtual Cluster Heartbeats		10.39.85.1 to 10.39.85.254	10.39.85.255	-	149			10.39.149.1 to 10.39.149.254	10.39 149.255		Future	10.39.213.0	10.39.213.1 to 10.39.213.254	10.39.213.255
22 MHT Users	10.39.22.0	10.39.22.1 to 10.39.22.126	10.39.22.127	86	Future	10.39.86.0	10.39.86.1 to 10.39.86.254	10.39 86 255		150	Future	10 39 150.0	10.39.150.1 to 10.39.150.254	10.39.150.255	214		10.39.214.0	10.39.214.1 to 10.39.214.254	10.39.214.255
23 Future	10.39.23.0	10.39.23.1 to 10.39.23.254	10.39 23.255	87		10.39.87.0	10.39.87.1 to 10.39.87.254	10 39 87 255		151	Future	10.39.151.0	10.39.151 1 to 10.39.151.254	10.39 151 265	215	Future	10.39.215.0	10.39.215.1 to 10.39.215.254	10.39.215.255
24 MHT Accounting	ng Users 10.39.24.0	10.39.24.1 to 10.39.24.254	10.39.24.255	88	Future	10.39.88.0	10.39.88.1 to 10.39.88.254	10.39.88.255	- 1	152	Future	10.39.152.0	10.39.152.1 to 10.39.152.254	10.39.152.255	216	Future	10.39.216.0	10.39.216.1 to 10.39.216.254	10.39.216.255
25 Admin Users	10.39.25.0	10.39.25.1 to 10.39.25.254	10.39.25.255	89	Future	10.39.89.0	10,39.89.1 to 10.39.89.254	10.39.89.255	- 1	153	Future	10.39.153.0	10.39.153.1 to 10.39.153.254	10.39.153.255	217	Future	10.39.217.0	10.39.217.1 to 10.39.217.254	10.39.217.255
26 MHT Wireless A	Authenticat 10.39.26.0	10.39.26.1 to 10.39.26.254	10.39.26.255	90	Future	10.39.90.0	10.39.90.1 to 10.39.90.254	10.39.90.255		154	Future	10.39.154.0	10.39.154.1 to 10.39.154.254	10.39.154.255	218	Future	10.39.218.0	10.39.218.1 to 10.39.218.254	10.39.218.255
27 LEO Users	10.39.27.0	10.39.27.1 to 10.39.27.254	10.39.27.255	91	Future	10.39.91.0	10.39.91.1 to 10.39.91.254	10.39 91 255		155	Future	10.39.155.0	10.39.155.1 to 10.39.155.254	10.39 155.255	219	Future	10.39.219.0	10.39.219 1 to 10.39.219.254	10:39.219.255
28 MHT Building I	Maintenan 10 39 26 0	10.39.28.1 to 10.39.28.254	10.39 28 255	92	Future	10.39.92.0	10.39.92.1 to 10.39.92.254	10.39 92 255		156	Future	10.39.156.0	10.39.156.1 to 10.39.156.254	10.39 156.255	220	Future	10.39.220.0	10.39.220.1 to 10.39.220.254	10.39.220.255
29 MHT TSA User	ns 10 39 29 0	10 39 29 1 to 10 39 29 254	10 39 29 255	93	Future	10.39.93.0	10.39.93.1 to 10.39.93.254	10.39 93 255		157	Future	10.39.157.0	10.39.157.1 to 10.39.157.254	10.39.157.255	221	Future	10.39.221.0	10.39.221.1 to 10.39.221.254	10 39 221 255
30 MHT Printers	10.39.30.0	10.39.30.1 to 10.39.30.254	10.39.30.255	94	Future	10.39.94.0	10.39.94.1 to 10.39.94.254	10.39.94.255		158	Future	10.39.158.0	10.39.158.1 to 10.39.158.254	10.39.158.255	222	Future	10.39.222.0	10.39.222.1 to 10.39.222.254	10.39.222.255
31 MHT Security U	Users 10.39.31.0	10.39.31.1 to 10.39.31.254	10.39.31.127	95	Future	10.39.96.0	10.39.95.1 to 10.39.95.254	10.39.95.255		159	Future	10.39.159.0	10.39.159.1 to 10.39.159.254	10.39.159.255	223	Future	10.39.223.0	10.39.223.1 to 10.39.223.254	10 39 223 255
32 MHT Fingerprin	nt System 10.39.32.0	10.39.32.1 to 10.39.32.254	10.39.32.127	96	Future	10.39,96.0	10.39.95.1 to 10.39.96.254	10.39.96.255	ŀ	160	Future	10,39,160,0	10.39.160.1 to 10.39.160.254	10.39.160.255	224	Future	10.39.224.0	10.39.224.1 to 10.39.224.254	10.39 224.255
33 Guest	10.39.33.0	10.39.33.1 to 10.39.33.254	10.39.33.127	97	Future	10.39.97.0	10.39.97.1 to 10.39.97.254	10.39.97.255		161	Future	10.39.161.0	10.39.161.1 to 10.39.161.254	10.39.161.255	225	Future	10.39.225.0	10.39.225 1 to 10.39.225.254	10.39.225.255
34 Future	10.39.34.0	10.39.34.1 to 10.39.34.254	10.39.34.127	98	Future	10.39.98.0	10.39.98.1 to 10.39.98.254	10.39.98.255		162	Future	10.39.162.0	10.39.162.1 to 10.39.162.254	10.39 162 255	226	Future	10.39.226.0	10.39.226 1 to 10.39.226.254	10.39.226.255
35 Future	10.39.35.0	10.39.35.1 to 10.39.35.254	10.39 35 127	99	Future	10.39.99.0	10.39.99.1 to 10.39.99.254	10.39 99 255		163	Future	10.39.163,0	10.39.163.1 to 10.39.163.254	10.39 163.255	227	Future	10.39.227.0	10.39.227.1 to 10.39.227.254	10.39 227 255
36 Future	10.39.36.0	10.39.36.1 to 10.39.36.254	10.39.36.127	100	Militown	10.39.100.0	10,39,100.1 to 10,39,100,254	10.39.100.255		164	Future	10.39.164.0	10.39.164.1 to 10.39.164.254	10.39.164.255	228	Future	10.39.228.0	10.39.228.1 to 10.39.228.254	10.39 228 255
37 Future	10.39.37.0	10.39.37.1 to 10.39.37.254	10.39.37.127	101	Hudson-Manchester	10.39.101.0	10.39.101.1 to 10.39.101.254	10.39.101.255	-	165	Future	10.39.165.0	10.39.165.1 to 10.39.165.254	10.39 165.255	229	Future	10.39.229.0	10.39.229.1 to 10.39.229.254	10.39.229.255
38 Future	10.39.38.0	10.39.38.1 to 10.39.38.254	10.39.38.127	102	Ben and Jerry's	10.39.102.0	10.39.102.1 to 10.39.102.254	10.39.102.255		166	Future	10.39.166.0	10.39.166.1 to 10.39.166.254	10.39,166.255	230	Future	10.39.230.0	10.39.230.1 to 10.39.230.254	10.39.230.255
39 Future	10,39,39,0	10.39.39.1 to 10.39.39.254	10.39.39.127	103	Worldwide Flight Svc	10.39.103.0	10.39.103.1 to 10.39.103.254	10.39 103.255		167	Future	10.39,167.0	10.39.167.1 to 10.39.167.254	10.39 167.255	231	Future	10.39.231.0	10.39.231.1 to 10.39.231.254	10.39.231.255
40 Future	10.39.40.0	10.39.40.1 to 10.39.40.254	10.39.40.127	104	International RAM	10.39.104.0	10.39.104.1 to 10.39.104.254	10.39 104.255		168	Future	10.39.168.0	10.39.168 1 to 10.39.168.254	10.39 168 255	232	Future	10.39.232.0	10.39.232 1 to 10.39.232.254	10.39 232 255
41 Future	10.39.41.0	10.39.41.1 to 10.39.41.254	10.39 41 255		Delta	10.39.105.0	10,39,105,1 to 10,39,105,254	10.39 105 255		169		10.39.169.0	10,39,169.1 to 10,39,169,254	10.39 169 255	233	Future	10,39,233,0	10.39.233.1 to 10.39.233.254	10.39.233.255
42 Southwest DM2	Z 10.39.42.0	10.39.42.1 to 10.39.42.254	10.39 42 255	106	1	10.39.106.0	10.39.106.1 to 10.39.106.254	10.39 106 255		170	-		10.39.170.1 to 10.39.170.254	10.39 170.255		Future	10.39.234.0	10.39.234.1 to 10.39.234.254	10.39 234 255
43 Future	10.39.43.0	10.39.43.1 to 10.39.43.254	10.39.43.255	107	Future	10.39.107.0	10.39.107.1 to 10.39.107.254	10.39.107.255		171	Future	10.39.171.0	10.39.171.1 to 10.39.171.254	10.39.171.255	235	Future	10.39.235.0	10.39.235.1 to 10.39.235.254	10.39.235.255
## Future	10.39.44.0	10.39.44.1 to 10.39.44.254	10.39.44.255	108	Future	10.39.108.0	10.39.108.1 to 10.39.108.254	10.39.108.255		172	Future		10.39.172.1 to 10.39.172.254	10.39 172.255	236	Future	10.39.236.0	10.39.236.1 to 10.39.236.254	10.39.236.255
45 Johnson Contro		10.39.45.1 to 10.39.45.254	10.39.45.255	109		10.39.109.0		10.39.109.255		173			10.39.173.1 to 10.39.173.254	10.39.173.255		Future		10.39.237.1 to 10.39.237.254	10.39.237.255
46 Future		10.39.46.1 to 10.39.46.254	10.39.46.255	110		Daniel Communication of the Co	Secretary of the secret	10.39 110.255		174	A		10.39.174.1 to 10.39.174.254	10.39 174.265	Parameter 1	Future	in a second	10.39.238.1 to 10.39.238.254	10.39.238.265
47 Future	10.39.47.0	10.39.47.1 to 10.39.47.254	10.39.47.255	111	N/ACCO	10.39 111.0		10.39 111.255		175	-		10.39.175.1 to 10.39.175.254	10.39 175 255		Future		10.39.239.1 to 10.39.239.254	10 39 239 255
48 Future		10.39.48.1 to 10.39.48.254	10.39.48.255	112				10.39 112 255			Future		10.39.176.1 to 10.39.176.254	10.39 176 265		Future		10.39.240.1 to 10.39.240.254	10.39.240.255
49 Future	100000000000000000000000000000000000000	10.39.49.1 to 10.39.49.254	10.39 49.255	113	3.0000			10.39 113 255	-	177		- I moreovariante	10.39.177.1 to 10.39.177.254	10.39 177 255	11000	Future		10,39,241.1 to 10,39,241.254	10.39 241 255
50 Future		10.39.50.1 to 10.39.50.254	10.39.50.255	114	21177			10.39 114.255		178			10.39.178.1 to 10.39.178.254	10.39 178 255		Future		10.39.242 1 to 10.39.242.254	10.39 242 255
51 Future		10.39.51.1 to 10.39.51.254	10.39.51.255	115				10.39.115.255		179			10.39.179.1 to 10.39.179.254	10.39.179.255		Future		10.39.243.1 to 10.39.243.254	10.39.243.255
52 Future	Service Co.	10.39.52.1 to 10.39.52.254	10.39.52.255	116		anauguran.	Lanca proposal contraction and the contraction of	10.39.116.255		180	65.0		10,39,180,1 to 10,39,180,254	10.39.180.255	L	Future	S	10.39 244 1 to 10.39 244 254	10.39.244.255
63 Future		10.39.53.1 to 10.39.53.254	10.39.53.255	117	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	Autorope Control		10.39.117.255		181	Carlotte Communication Communi	harana i	10.39.181.1 to 10.39.181.254	10.39 181.255	7	Future	January and S	10.39.245.1 to 10.39.245.254	10.39.245.255
54 Future		10.39.54.1 to 10.39.54.254	10.39.54.255			10.39.118.0		10.39 118 255			Future		10.39 182 1 to 10.39 182 254	10.39 182 255		Future		10.39.246.1 to 10.39.246.254	10.39.246.255
55 Signs 56 Future		10.39.55.1 to 10.39.55.254 10.39.56.1 to 10.39.56.254	10.39.55.255					10.39 119.255		183			10.39.183.1 to 10.39.183.254 10.39.184.1 to 10.39.184.254	10.39 183.255		Future		10.39.247.1 to 10.39.247.254 10.39.248.1 to 10.39.248.254	10.39.247.255
56 Future 57 Future	9-510HGW-1		Catterine Cont.				allowation so the entrope of the ori	7					10-11-11-11-11-11-11-11-11-11-11-11-11-1	10.39.184.255				NAME OF TAXABLE PARTY.	2
3 7	10.39.57.0	10.39.57.1 to 10.39.57.254	10.39 57.255			10 39 121 0		10.39 121 255		185			10.39.185.1 to 10.39.185.254	10.39 185 255	-	Future		10.39.249 1 to 10.39.249.254	10.39.249.255
58 Future	10.39.58.0	10.39.58.1 to 10.39.58.254 10.39.59.1 to 10.39.59.254	10.39.58.255	1		10.39.122.0		10.39.122.255		187	Future		10.39.186.1 to 10.39.186.264 10.39.187.1 to 10.39.187.254	10.39.186.255		Future		10.39.250.1 to 10.39.250.254 10.39.251.1 to 10.39.251.254	10.39.250.255
60 Camera	To you and the	10.39.59.1 to 10.39.59.254	10.39.69.255	S	100 DATE - 100 DATE - 100 DATE - 100 DATE - 100 DATE - 100 DATE - 100 DATE - 100 DATE - 100 DATE - 100 DATE -			10.39.123.255		188			10.39.187.1 to 10.39.187.254	10.39.187.255	La constant	Future		10.39.252.1 to 10.39.252.254	10.39.251.255
A STATE OF THE STA	de Constitue Const	10.39.61.1 to 10.39.61.254	10.39.60.265		inimizione coi i			10.39 124,255			a de la companione de l		10.39.189.1 to 10.39.189.254	10.39 189.255	£	Future		10.39.252.1 to 10.39.252.254	10.39.252.265
61 Future 62 Future	10.39.61.0	10.39.62.1 to 10.39.62.254	10.39.61.255	126		10.39.126.0		10.39 125 255		190	Future		10.39.190.1 to 10.39.190.254	10.39 199.255		Network Management		10.39.254 1 to 10.39.254.254	10.39 254 255
63 Future		10.39.63.1 to 10.39.63.254	10 39 63 265	127				10.39 127 255			Future		10.39.191.1 to 10.39.191.254	10.39 190.255	6,04	- standard and an all		The state of the s	10.000,0071,000
1 200	12,500,300,3				(C)(C)						100000		The second secon		ij.				

FUTURE FACILITY (40)

4	Futur	e Faci	ility	10.40.0.0/2	24	NAL	IT IP A	ddressing Plan	I	ı	-					1				
VLAN Function			Hosts	Late of the real professional and the	VLAN F		Network	Hosts	Broadcast		VLAN	Function	Network	Hosts	Broadcast	VLAN	Function	Network	Hosts	Broadcast
Core Uplinks		0.0.0	10.40 0.1 to 10.40 0.254	10.40.0.255	c	Core Uplinis	10.40.64.0	10.40.64 1 to 10.40.64.254	10.40.64.255		1	Core Uplinks	10 40 128.0	10 40 128 1 to 10 40 128 254	10 40 128 255		Core Uplinis	10.40.192.0	10 40 192 1 to 10 40 192 254	10.40 192.255
1 Default	10.4	0.1.0	10.40.1.1 to 10.40.1.254	10.40.1.255	.65 C	Sty Unrouted	10.40.65.0	10.40.65.1 to 10.40.65.254	10.40.65.255		129	Future	10.40.129.0	10 40 129 1 to 10 40 129 254	10.40.129.255	193	Future	10.40.193.0	10.40.193.1 to 10.40.193.254	10.40.193.255
2 Admin	10.4	0.2.0 1	10.40.2.1 to 10.40.2.254	10.40.2.255	66 F	uture	10.40.66.0	10.40.66.1 to 10.40.66.254	10.40.66.255		130	Future	10.40.130.0	10.40.130.1 to 10.40.130.254	10.40.130.255	194	Future	10.40.194.0	10.40.194.1 to 10.40.194.254	10.40.194.255
3 FIDS	10.4	0.3.0	10.40.3.1 to 10.40.3.254	10.40.3.255	67 F	future	10.40.67.0	10.40.67.1 to 10.40.67.254	10.40.67.255		131	Future	10.40.131.0	10.40.131.1 to 10.40.131.254	10.40.131.255	195	Future	10.40.195.0	10.40.195.1 to 10.40.195.254	10.40.195.255
4 Security	10.4	0.4.0	10.40.4.1 to 10.40.4.254	10.40.4.255	68 F	uture	10.40.68.0	10.40.68.1 to 10.40.68.254	10.40.68.255		132	Future	10.40.132.0	10.40.132.1 to 10.40.132.254	10.40.132.255	196	Future	10.40,196.0	10.40.196.1 to 10.40.196.254	10.40.196.255
5 Security Cam	nera 10.4	0.5.0	10.40.5.1 to 10.40.5.254	10.40.5.255	69 F	uture	10.40.69.0	10 40.69.1 to 10.40.69.254	10.40.69.255		133		10.40.133.0	10.40.133.1 to 10.40.133.254	10.40.133.255	197	Future	10.40.197.0	10.40.197.1 to 10.40.197.254	10.40.197.255
6 Taxi		0.6.0	10.40.6.1 to 10.40.6.254	10.40.6.255		Same Of Street, Street	10.40.70.0	10.40.70.1 to 10.40.70.254	10.40.70.255		134	Future	10.40.134.0	10.40.134.1 to 10.40.134.254	10.40 134 255	198	Futum	10.40.198.0	10.40 198 1 to 10.40 198 254	10.40.198.255
7 HVAC			10.40.7.1 to 10.40.7.254	10.40.7.255	71 F		10.40.71.0	10.40.71.1 to 10.40.71.254	10.40.71.255		195	Fotons	10.40.135.0		10.40 135.255	199	Future		10.40.199.1 to 10.40.199.254	10.40.199.255
					_//						130	Filline		10.40.135.1 to 10.40.135.254		199	Future			
B Comcast - Pa		0.8.0	10.40.8.1 to 10.40.8.254	10.40.8.255	72 F	y.e. (1)	10.40.72.0	10.40.72.1 to 10.40.72.254	10.40.72.255		136	Future	10.40.136.0	10.40.136.1 to 10.40.136.254	10.40.136.255	200	Future	10.40.200.0	10.40.200.1 to 10.40.200.254	10.40 200.255
9 WiFi Private	10.4	0.9.0	10.40.9.1 to 10.40.9.254	10.40.9.255	73 F	future	10.40.73.0	10.40.73.1 to 10.40.73.254	10.40.73.255		137	Future	10.40.137.0	10.40.137.1 to 10.40.137.254	10.40.137.255	201	Future	10.40.201.0	10.40.201.1 to 10.40.201.254	10.40.201.255
10 Comcast - Pe	ersonnel 10.4	0.10.0	10.40.10.1 to 10.40.10.254	10.40.10.127	74 F	uture	10:40:74.0	10.40.74.1 to 10.40.74.254	10.40.74.255		138	Future	10.40.138.0	10.40.138.1 to 10.40.138.254	10.40.138.255	202	Future	10.40.202.0	10.40.202.1 to 10.40.202.254	10.40.202.255
11 ILO	10.4	0.11.0	10.40.11.1 to 10.40.11.254	10.40.11.255	75 F	uture	10.40.75.0	10.40.75.1 to 10.40.75.254	10.40.75.255		139	Future	10.40.139.0	10.40.139.1 to 10.40.139.254	10.40.139.255	203	Future	10.40.203.0	10.40.203.1 to 10.40.203.254	10.40.203.255
12 Conveyor	10.4	0.12.0	10.40 12.1 to 10.40.12.254	10.40.12.255	76 F	uture	10.40.76.0	10.40.76.1 to 10.40.76.254	10.40.76.255		140	Future	10.40.140.0	10 40 140 1 to 10 40 140 254	10.40 140.265	204	Future	10.40.204.0	10.40.204.1 to 10.40.204.254	10.40.204.255
13 Future	10.4	0.13.0	10.40.13.1 to 10.40.13.254	10.40.13.255	77 F	uture	10.40.77.0	10.40.77.1 to 10.40.77.254	10.40.77.255		141	Future	10.40.141.0	10.40.141.1 to 10.40.141.254	10.40.141.255	205	Future	10.40,205.0	10.40.205.1 to 10.40.205.254	10.40.205.255
14 VMWare Vmo	rotion 10.4	0.14.0 1	10.40.14.1 to 10.40.14.254	10.40.14.255	78 F	future	10.40.78.0	10.40.78.1 to 10.40.78.254	10.40.78.255		142	Future	10.40.142.0	10.40.142.1 to 10.40.142.254	10.40.142.255	206	Future	10.40,206.0	10.40.206.1 to 10.40.206.254	10.40.206.255
15 Wireless Infra	astructure 10.4	0.15.0. 1	10.40.15.1 to 10.40.15.126	10.40.15.127	79 F	future	10.40.79.0.	10.40.79.1 to 10.40.79.254	10.40.79.255		143	Future	10.40.143.0	10.40.143.1 to 10.40.143.254	10.40 143.255	207	Future	10.40,207.0	10.40.207.1 to 10.40.207.254	10.40.207.255
16 Future	10.4	0.16.0	10.40.16.1 to 10.40.16.254	10.40.16.255	80 F	uture	10 40 80 0	10 40 80 1 to 10 40 80 254	10.40.80.255		144	Future	10.40.144.0	10 40 144 1 to 10 40 144 254	10.40 144 255	208	Future	10.40.208.0	10 40 208 1 to 10 40 208 254	10.40.208.255
17 Future	10.4	0.17.0	1D 40 17 1 to 10 40 17 254	10.40.17.255	81 F	future	10.40.81.0	10.40.81.1 to 10.40.81.254	10.40.81.255		145	201799	10.40.145.0	10 40 145 1 to 10 40 145 254	10.40.145.255	209	Future	10.40.209.0	10.40.209.1 to 10.40.209.254	10.40.209.255
			10.40 18.1 to 10.40 18.254	10.40.18.255	82 F		10.40.82.0	10.40.82.1 to 10.40.82.254	10.40.81.255		146		10.40.146.0	10.40.146.1 to 10.40.146.254	10.40.145.255	210	Entres	10.40.210.0	10.40.210.1 to 10.40.210.254	10.40.210.255
18 Future	E-10	2000 30	10.40.18.1 to 10.40.18.254	Parameter 1				10.40.82.1 to 10.40.82.254	Constant				and the second		Control of the Contro	d	- James	Language and		- Service Committee
19 Future			10/40/(0/7/00/10/00/7	10.40.19.255	83 F	Value a	10.40.83.0	100,000,000,000,000,000	10.40.83.255		147	A CANADA	10.40.147.0	10.40.147.1 to 10.40.147.254	10.40 147.255	211	Puilife	10.40.211.0	10.40.211.1 to 10.40.211.254	10.40.211.255
20 MHT Desktop			10.40.20.1 to 10.40.20.254	10.40.20.255			10.40.84.0	10.40.84.1 to 10.40.84.254	10.40.84.255		148		10.40.148.0	10.40.148.1 to 10.40.148.254	10.40.148.255		Future	10.40.212.0	10.40.212.1 to 10.40.212.254	10.40.212.255
21 Future	10.4	0.21.0	10.40.21.1 to 10.40.21.254	10.40.21.255	85. V	/irtual Cluster Heartbeats	10.40.85.0	10.40.85.1 to 10.40.85.254	10.40.85.255		149	Future	10.40.149.0	10.40.149.1 to 10.40.149.254	10.40.149.255	213	Future	10.40.213.0	10.40.213.1 to 10.40.213.254	10.40.213.255
22 MHT Users	10.4	0.22.0	10 40 22 1 to 10 40 22 126	10.40.22.127	86 F	uture	10 40 86 0	10.40.86.1 to 10.40.86.254	10.40.86.255		150	Future	10.40.150.0	10.40.150.1 to 10.40.150.254	10.40.150.255	214	Future	10.40.214.0	10 40 214 1 to 10 40 214 254	10.40.214.255
28 Future	10.4	0.23.0	10.40.23.1 to 10.40.23.254	10.40 23.255	87 F	uture	10.40.87.0	10.40.87.1 to 10.40.87.254	10.40.87.255		151	Future	10.40.151.0	10.40.151.1 to 10.40.151.254	10.40.151.255	215	Future	10.40.215.0	10.40.215.1 to 10.40.215.254	10.40.215.255
24 MHT Account	nting Users 10.4	0.24.0	10 40 24 1 to 10 40 24 254	10.40.24.255	88 F	uture	10.40.88.0	10.40.88.1 to 10.40.88.254	10.40.88.255		152	Future	10.40.152.0	10.40.152.1 to 10.40.152.254	10.40.152.255	216	Future	10.40.216.0	10.40.216.1 to 10.40.216.254	10.40.216.255
25 Admin Users	s 10.4	0.25.0 1	10.40.25.1 to 10.40.25.254	10.40.25.255	89 F	ruture	10.40.89.0	10.40.89.1 to 10.40.89.254	10.40.89.255		153	Future	10.40,153,0	10.40.153.1 to 10.40.153.254	10.40.153.255	217	Future	10.40.217.0	10.40.217.1 to 10.40.217.254	10.40.217.255
26 MHT Wireless	ss Authenticat 10.4	0.26.0	10.40.26.1 to 10.40.26.254	10.40.26.255	90 F	uture	10.40.90.0	10.40.90.1 to 10.40.90.254	10.40.90.255		154	Future	10.40.154.0	10.40.154.1 to 10.40.154.254	10.40.154.255	218	Future	10.40,218.0	10.40.218.1 to 10.40.218.254	10.40.218.255
27 LEO Users	10.4	0.27.0	10.40.27.1 to 10.40.27.254	10.40.27.255	91 F	uture	10.40.91.0	10.40.91.1 to 10.40.91.254	10.40.91.255		155	Future	10.40.155.0	10.40.155.1 to 10.40.155.254	10.40.155.255	219	Future	10.40.219.0	10.40.219.1 to 10.40.219.254	10.40.219.255
28 MHT Building	ng Maintenan 10.4		10.40.28.1 to 10.40.28.254	10.40.28.255	92 F		10.40.92.0	10.40.92.1 to 10.40.92.254	10.40.92.255		156		10.40.156.0	10.40.156.1 to 10.40.156.254	10.40 156 255	220	Future	10.40.220.0	10.40.220.1 to 10.40.220.254	10.40.220.255
						1333						44444	100,000,000,000				Future			
29 MHT TSA Us			10.40.29.1 to 10.40.29.254	10.40.29.255	93 F	99090	10 40 93.0	10.40.93.1 to 10.40.93.254	10.40.93.255		157	0000	10.40.157,0	10.40.157.1 to 10.40.157.254	10.40.157.255	221	Future	10.40.221.0	10.40.221.1 to 10.40.221.254	10.40.221.255
30 MHT Printers			10.40.30.1 to 10.40.30.254	10.40.30.255	94 F		10.40.94.0	10.40.94.1 to 10.40.94.254	10.40.94.255		158	Future	10.40.158.0	10.40.158.1 to 10.40.158.254	10.40.158.255	222	Future	10.40.222.0	10.40.222.1 to 10.40.222.254	10.40.222.255
31 MHT Security	ty Users 10.4	0.31.0	18.40.31.1 to 10.40.31.254	10.40.31.127	95 F	uture	10.40.95,0	10.40.95.1 to 10.40.95.254	10.40.95.255		159	Future	10.40.159.0	10.40.159.1 to 10.40.159.254	10.40.159.255	223	Future	10.40.223.0	10.40.223.1 to 10.40.223.254	10.40.223.255
32 MHT Fingerp	print System 10.4	0,32.0 1	10.40.32.1 to 10.40.32.254	10.40.32.127	96 F	uture	10.40.96.0	10.40.95.1 to 10.40.96.254	10,40.96,255		160	Future	10.40.160.0	10.40.160.1 to 10.40.160.254	10.40.160.255	224	Future	10.40.224.0	10.40.224.1 to 10.40.224.254	10.40.224.255
33 Guest	10.4	0.33.0	10.40.33.1 to 10.40.33.254	10.40.33.127	97	uture	10.40.97.0	10.40.97.1 to 10.40.97.254	10.40.97.255		161	Future	10.40.161.0	10.40.161.1 to 10.40.161.254	10.40.161.255	225	Future	10.40.225.0	10.40.225.1 to 10.40.225.254	10.40.225.255
34 Future	10.4	0.34.0	10.40.34.1 to 10.40.34.254	10.40:34.127	98 F	uture	10.40.98.0	10.40.98.1 to 10.40.98.254	10.40.98.255		162	Future	10.40.162.0	10.40.162.1 to 10.40.162.254	10 40 162 255	226	Future	10.40.226.0	10.40.226.1 to 10.40.226.254	10.40.226.255
35 Future	10.4	0.35.0	10.40.35.1 to 10.40.35.254	10.40.35.127	99 F	uture	10.40.99.0	10.40.99.1 to 10.40.99.254	10 40 99 255		163	Future	10.40.163,0	10.40.163.1 to 10.40.163.254	10.40.163.255	227	Future	10.40.227.0	10.40.227.1 to 10.40.227.254	10.40 227 255
36 Future	10.4	0.36.0	10.40.36.1 to 10.40.36.254	10.40.36.127	100 M	Militown	10.40.100.0	10.40.100.1 to 10.40.100.254	10.40.100.255		164	Future	10.40.164.0	10.40.164.1 to 10.40.164.254	10.40.164.255	228	Future	10.40.228.0	10.40.228.1 to 10.40.228.254	10.40.228.255
37 Future	10.4	0.37.0	10.40.37.1 to 10.40.37.254	10.40.37.127	101 H	Audson-Manchester	10.40.101.0	10.40.101.1 to 10.40.101.254	10.40.101.255		165	Future	10.40.165.0	10.40.165.1 to 10.40.165.254	10.40.165.255	229	Future	10.40.229.0	10.40.229.1 to 10.40.229.254	10.40.229.255
38 Future	10.4	0.38.0	10.40.38.1 to 10.40.38.254	10.40.38.127	102 B	Ben and Jerry's	10.40.102.0	10.40.102.1 to 10.40.102.254	10.40.102.255	-	166	Future	10.40.166.0	10.40.166.1 to 10.40.166.254	10.40.166.255	230	Future	10.40.230.0	10.40.230.1 to 10.40.230.254	10.40.230.255
39 Future	10.4	0.39.0	10.40.39.1 to 10.40.39.254	10.40.39.127	103 V	Vorldwide Flight Svc	10.40.103.0	10.40.103.1 to 10.40.103.254	10.40.103.255		167	Future	10.40.167.0	10.40.167.1 to 10.40.167.254	10.40.167.255	231	Future	10.40.231.0	10.40.231.1 to 10.40.231.254	10.40.231.255
40 Future	10.4	G.40.0 1	10.40.40.1 lo 10.40.40.254	10.40.40.127	104	nternational RAM	10.40.104.0	10.40.104.1 to 10.40.104.254	10.40.104.255		168	Future	10.40.168.0	10.40 168 1 to 10.40 168 254	10.40 168 255	232	Future	10.40.232.0	10.40.232 1 to 10.40.232.254	10.40 232 255
41 Future			10.40.41.1 to 10.40.41.254	10.40.41.255	105 D		10.40.105.0	10.40.105.1 to 10.40.105.254	10.40.105.255		169		10.40.169.0	10 40 169 1 to 10 40 169 254	10.40.169.255			10.40.233.0	10 40 233 1 to 10 40 233 254	
1.550037																233	Follows			10.40.233.255
42 Southwest DN			10.40.42.1 to 10.40.42.254	10.40.42.255		uture	10.40.106.0	10.40.106.1 to 10.40.106.254	10.40.106.255		170		10.40.170.0	10.40.170.1 to 10.40.170.254	10.40 170.255	234	Fusilite	10.40.234.0	10.40.234.1 to 10.40.234.254	10.40 234 255
43 Future	1000		10.40.43.1 to 10.40.43.254	10.40.43.255	107 F			Committee of the Commit	10.40.107.255					10.40.171.1 to 10.40.171.254	110000000000000000000000000000000000000		Future	DOMESTIC STREET	10.40.235.1 to 10.40.235.254	10.40.235.255
44 Future		- 1	10.40.44.1 to 10.40.44.254		108 F				10.40.108.255		172			10.40.172.1 to 10.40.172.254	10.40.172.255	236			10.40.236.1 to 10.40.236.254	
45 Johnson Cont	ntrois 10.4	0.45.0	10.40.45.1 to 10.40.45.254	Company of the Compan	109 F		10.40.109.0	10.40.109.1 to 10.40.109.254	10.40.109.255		173	Future	10.40.173.0	10.40.173.1 to 10.40.173.254	10.40.173.255	237	Future	10.40.237.0	10.40.237.1 to 10.40.237.254	10.40.237.255
46 Future	10.4	0,46.0	10.40.46.1 to 10.40.46.254	10.40.46.255	110 F	future	10.40.110.0	10.40.110.1 to 10.40.110.254	10.40.110.255		174	Future	10.40.174.0	10.40.174.1 to 10.40.174.254	10.40.174.255	238	Future	10.40.236.0	10.40.238.1 to 10.40.238.254	10.40.238.255
47 Future	10.4	0.47.0	10.40.47.1 to 10.40.47.254	10.40.47.255	111 F	uture	10.40.111.0	10.40:111.1 to 10.40:111.254	10.40.111.255		175	Future	10.40,175.0	10.40.175.1 to 10.40.175.254	10.40.175.265	239	Future	10.40,239,0	10 40 239 1 to 10 40 239 254	10.40.239.255
48 Future	10.4	0,48,0 1	10.40.48.1 to 10.40.48.254	10.40.48.255	112 F	future	10.40.112.0	10.40.112.1 to 10.40.112.254	10.40.112.255		176	Future	10.40.176.0	10.40.176.1 to 10.40.176.254	10.40.176.265	240	Future	10.40.240.0	10.40.240.1 to 10.40.240.254	10.40.240.255
49 Future	10.4	0.49.0. 1	10.40.49.1 to 10.40.49.254	10.40.49.255	113 F	future	10.40.113.0	10.40.113.1 to 10.40.113.254	10.40.113.255		177	Future	10.40.177.0	10.40.177.1 to 10.40.177.254	10.40.177.255	241	Future	10.40.241.0	10.40.241.1 to 10.40.241.254	10.40.241.255
80 Future	70000		10.40.50.1 to 10.40.50.254	10.40.50.255	114 F			10 40 114 1 to 10.40 114 254	10.40 114 255		178			10.40.178.1 to 10.40.178.254	10.40.178.255	11000	Future	10,40,242.0	10.40.242 1 to 10.40.242.254	10.40.242.255
51 Future			10.40.51.1 to 10.40.51.254		115 F	1770		10.40.115.1 to 10.40.115.254	10.40.115.255		179		Contract of the contract of th	10.40.179.1 to 10.40.179.254	10.40.179.255	243			10.40.243.1 to 10.40.243.254	10.40.243.255
52 Future			10.40.52.1 to 10.40.52.254		116 F			10.40.116.1 to 10.40.116.254	10.40.116.255		180			10.40.180.1 to 10.40.180.254		244			10:40:244.1 to 10:40:244.254	10.40.244.255
S. Carlotte			10.40.53.1 to 10.40.53.254	Commercial Control	117 F		Second Reserved	10.40.117.1 to 10.40.117.254	Beautiful Commencers.			es :	Service con-	harmontour in communities to	Berner			Lance and the second	Constanting Constanting Constanting	Samoratan
53 Future						ALIENDAY STADE	and the second		10.40.117.255		181	(SALVIE)	10.40.181.0	10.40.181.1 to 10.40.181.254	10.40 181.255		Future		10.40.245.1 to 10.40.245.254	10.40.245.255
54 Future			10.40.54.1 to 10.40.54.254					10.40.118.1 to 10.40.118.254	10.40.118.255		182			10.40.182.1 to 10.40.182.254		246			10.40.246.1 to 10.40.246.254	10.40.246.255
55 Signs	1		10.40.55.1 to 10.40.55.254					10.40.119.1 to 10.40.119.254	10.40 119.255		183			10.40.183.1 to 10.40.183.254	10.40 183.255	247	Future		10.40.247.1 to 10.40.247.254	10.40.247.255
56 Future	10.4	0.56.0	10.40.56.1 to 10.40.56.254	10 40 56 255	120 V	/LAN 709	10 40 120 0	10 40 120 1 to 10 40 120 254	10.40.120.255		184	Future	10 40 184 0	10.40.184.1 to 10.40.184.254	10.40.184.255	248	Future	10.40.248.0	10 40 248 1 to 10 40 248 254	10.40.248.255
57 Future	10.4	0.57.0	10.40.57.1 to 10.40.57.254	10.40.57.255	121 C	City Network	10 40 121 0	10.40.121.1 to 10.40.121.254	10.40.121.255		185	Future	10 40 185.0	10.40.185.1 to 10.40.185.254	10.40 185.255	249	Future	10,40,249.0	10.40.249.1 to 10.40.249.254	10.40.249.255
58 Future	10.4	0.58.0	10.40.58.1 to 10.40.58.254	10.40.58.255	122 E	xtemal Network	10.40.122.0	10.40.122.1 to 10.40.122.254	10 40 122 255		186	Future	10.40.186.0	10.40.186.1 to 10.40.186.254	10.40.186.255	250	Future	10.40.250.0	10.40.250.1 to 10.40.250.254	10.40.250.255
59 Future	10.4	0.59.0	10.40:59.1 to 10.40.59.254	10.40.59.255	123 F	DDI Default	10.40.123,0	10.40.123.1 to 10.40.123.254	10.40.123.255		187	Future	10.40.187.0	10.40.187.1 to 10.40.187.254	10.40.187.255	251	Future	10:40.261.0	10.40.251.1 to 10.40.251.254	10.40.251.255
60 Camera	10.4	0.60.0	10.40.60.1 to 10.40.60.254	10.40.60.255	124 F	DDinet Default	10.40.124.0	10.40.124.1 to 10.40.124.254	10.40.124,255		188	Future	10.40.188.0	10.40.188.1 to 10.40.188.254	10.40.188.265	252	Future	10.40.252.0	10.40.252.1 to 10.40.252.254	10.40.252.255
61 Future	-		10.40.61.1 to 10.40.61.254			and and delegated the second		10.40.125.1 to 10.40.125.254	10.40.125.255		189	etration .		10.40.189.1 to 10.40.189.254	10.40 189.255		Future		10.40.253 1 to 10.40.253.254	10.40.253.255
62 Future			10.40.62.1 to 10.40.62.254	10.40.62.255	126 F			10.40.126.1 to 10.40.126.254	10.40.126.255		190	***************************************	10.40.190.0	10.40.190,1 to 10.40,190.254	10.40 190.255				10.40.254.1 to 10.40.254.254	10.40.254.255
63 Future			10.40.62.1 to 10.40.62.254	10.40.63.255	127 F			10.40.125.1 to 10.40.125.254	10.40.126.255					10.40.191.1 to 10.40.191.254	10.40.190.255	6,674				10.70.207.200
ua Future	10.4	00.0	10.40.03.254	.0.40.93.233	161	se sali M	.v.nv.127.0	10-79-167-1 to 10-40-127-254	10.40.127.255		191	- Settlere	.0.40.191.0	10.40.101.1 10 10.40.101.204	10.90.191.200					

SERVER FARM TERMINAL

	SERVER FAR														,			
Serv	<i>r</i> er Farm	Terminal	10.44.0.0)/24		MHT IP A	ddressing Plan				2274177	7,112						
VLAN Function	Network		Broadcast	VLAN	Function	Network	Hosts	Broadcast	VL	N Function	Network	Hosts	Broadcast		VLAN Function	Network	Hosts	Broadcast
Core Uplinks	10 44 0 0	10.44.0.1 to 10.44.0.254	10.44.0.255	- 0.0	Core Uplinles	10 44 64 0	10:44 64 1 to 10:44 64 254	10 44 64 255	- 10	Core Uplinks	10.44.128.0	10.44 128 1 to 10.44 128 254	10.44 128 255		Core Uplinis	10.44.192.0	10.44 192 1 to 10.44 192 254	10.44.192.255
1 Default	100000000000000000000000000000000000000	10.44.1.1 to 10.44.1.254	10.44 1.255	- un	City Unrouted	10.44.65.0	10.44.65.1 to 10.44 65.254	10 44 65 255		Future	10.44.129.0	10.44.129.1 to 10.44.129.254	10.44.129.255		193 Future	10.44.193,0	10.44.193.1 to 10.44.193.254	10.44.193.255
2 Admin	10.44.2.0	10.44.2.1 to 10.44.2.254	10.44.2.255	- 66	Future	10.44.66.0	10.44.66.1 to 10.44.66.254	10.44.66.255		Future	10.44.130.0	10.44.130.1 to 10.44.130.254	10.44.130.255		194 Future	10.44.194.0	10.44.194.1 to 10.44.194.254	10.44.194.255
3 FIDS	10.44.3.0	10.44.3.1 to 10.44.3.254	10.44.3.255	67	Future	10.44.67.0	10.44.67.1 to 10.44.67.254	10.44.67.255	13	Future	10.44.131.0	10.44.131.1 to 10.44.131.254	10.44.131.255		195 Future	10.44.195.0	10.44.195.1 to 10.44.195.254	10.44.195.255
4 Security	10.44.4.0	10.44.4.1 to 10.44.4.254	10.44.4.255	68	Future	10.44.68.0	10.44.68.1 to 10.44.68.254	10.44.68.255	13:	Future	10.44.132.0	10.44.132.1 to 10.44.132.254	10.44.132.255		196 Future	10.44.196.0	10.44.196.1 to 10.44.196.254	10.44 196.255
5 Security Camera	10.44.5.0	10.44.5.1 to 10.44.5.254	10.44.5.255	69	Future	10.44.69.0	10.44.69.1 to 10.44.69.254	10.44.69.255	13	Future	10.44.133.0	10.44.133.1 to 10.44.133.254	10.44 133 255		197 Future	10.44.197.0	10.44.197.1 to 10.44.197.254	10.44.197.255
6 Taxi	10.44.6.0	10.44.6.1 to 10.44.6.254	10.44 6.255	70	Power Related	10.44.70.0	10.44 70.1 to 10.44.70 254	10.44.70.255	13	Future	10.44.134.0	10.44.134.1 to 10.44.134.254	10.44.134.255		198 Future	10.44.198.0	10.44.198.1 to 10.44.198.254	10.44.198.255
7 HVAC	10.44.7.0	10.44.7.1 to 10.44.7.254	10.44.7.255	71	Future	10.44,71.0	10.44.71.1 to 10.44.71.254	10.44.71.255	13	Future	10.44.135,0	10.44.135.1 to 10.44.135.254	10.44 135 255		199 Future	10.44.199.0	10.44.199.1 to 10.44.199.254	10.44.199.255
B Comcast - Passenge	er 10.44.8.0	10.44.8.1 to 10.44.8.254	10.44.8.255	72	Future	10.44.72.0	10.44.72.1 to 10.44.72.254	10.44.72.255	13	Future	10.44.136.0	10.44,136.1 to 10.44,136.254	10.44 136 255		200 Future	10.44.200.0	10.44.200.1 to 10.44.200.254	10.44 200,255
9 WiFi Private	10.44.9.0	10.44.9.1 to 10.44.9.254	10.44.9.255	73	Future	10.44.73.0	10.44.73.1 to 10.44.73.254	10.44.73.255	13	Future	10.44.137.0	10.44.137.1 to 10.44.137.254	10.44.137.255		201 Future	10.44.201.0	10.44.201.1 to 10.44.201.254	10.44.201.255
10 Comcast - Personne	el 10.44.10.0	10.44.10.1 to 10.44.10.254	10.44.10.127	74	Future	10.44.74.0	10.44.74.1 to 10.44.74.254	10.44.74.255	13	Future	10.44.138.0	10.44.138.1 to 10.44.138.254	10.44.138.255		202 Future	10.44.202.0	10.44.202.1 to 10.44.202.254	10.44.202.255
11 ILO	10.44.11.0	10.44.11.1 to 10.44.11.254	10.44.11.255	75	Future	10.44.75.0	10.44.75.1 to 10.44.75.254	10.44.75.255	13	Future	10.44.139.0	10.44 139 1 to 10.44 139 254	10.44.139.255		203 Future	10.44.203.0	10.44.203.1 to 10.44.203.254	10.44.203.255
12 Conveyor	10.44.12.0	10.44.12.1 to 10.44.12.254	10.44.12.255	76	Future	10.44.76.0	10.44.76.1 to 10.44.76.254	10.44.76.255	1.4	Future	10.44.140.0	10.44.140.1 to 10.44.140.254	10.44.140.255		204 Future	10.44.204.0	10.44.204.1 to 10.44.204.254	10.44.204.255
13 Future	10.44.13.0	10.44.13.1 to 10.44.13.254	10.44 13.255	77	Future	10.44.77.0	10.44.77.1 to 10.44.77.254	10.44.77.255	14	Future	10.44.141.0	10.44.141.1 to 10.44.141.254	10.44 141.255		205 Future	10.44.205.0	10.44.205.1 to 10.44.205.254	10.44 205 255
14 VMWare Vmotion	10.44.14.0	10.44.14.1 to 10.44.14.254	10.44 14 255	78	Future	10.44.78.0	10.44.78.1 to 10.44.78.254	10.44.78.255	14	Future	10.44.142.0	10.44.142.1 to 10.44.142.254	10.44 142 255		206 Future	10.44.206.0	10.44.206.1 to 10.44.206.254	10.44.206.255
15 Wireless Infrastructu	ure 10.44.15.0	10.44.15.1 to 10.44.15.126	10.44 15.127	79	Future	10.44.79.0	10.44.79.1 to 10.44.79.254	10.44 79.255		Future	10.44.143.0	10.44.143.1 to 10.44.143.254	10.44.143.255		207 Future	10.44.207.0	10.44,207.1 to 10.44,207.254	10.44 207 255
16 Future	10.44.16.0	10.44 16.1 to 10.44 16.254	10.44 16 255	80	Future	10.44.80.0	10 44 80 1 to 10 44 80 254	10.44.80.255	14	Future	10.44.144.0	10 44 144 1 to 10 44 144 254	10.44 144 255		208 Future	10.44.208.0	10 44 208 1 to 10 44 208 254	10.44.208.255
17 Future	10,44,17,0	10.44.17.1 to 10.44.17.254	10.44.17.255	81	Future	10.44.81.0	10.44.81.1 to 10.44.81.254	10.44.81.255		Future	10.44.145.0	10.44.145.1 to 10.44.145.254	10.44.145.255		209 Future	10.44.209.0	10.44.209.1 to 10.44.209.254	10.44.209.255
18 Future	10.44.17.0	10.44.18.1 to 10.44.18.254	10.44.18.255		Future	10.44.81.0	10.44.82.1 to 10.44.82.254	10.44.81.255	2	Future	10.44.146.0	10.44.145.1 to 10.44.145.254	10.44.145.255		210 Future	10.44.210.0	10.44.209.1 to 10.44.209.254	10.44.209.255
f and the	and the same	San Commence of the Commence o	- December 2	-	7	- U-576	authorized Common Contract Contract	- Democratical Control	2				and the same of		() () () () () () () () () ()	10-11		The second secon
19 Future	10.44.19.0	10.44.19.1 to 10.44.19.254	10.44.19.255	83	Future	10.44.83.0	10.44.83.1 to 10.44.83.254	10.44.83.255		Future	10.44.147.0	10.44.147.1 to 10.44.147.254	10.44.147.255		211 Future	10.44.211.0	10.44.211.1 to 10.44.211.254	10.44.211.255
20 MHT Desktops	10.44.20.0		10.44.20.255	84		10.44.84.0	10.44.84.1 to 10.44.84.254	10.44.84.255		Future	10.44.148.0	10.44.148.1 to 10.44.148.254	10.44 148.255		212 Future	10.44.212.0	10.44.212.1 to 10.44.212.254	10.44.212.255
21 Future	10.44.21.0	10.44.21.1 to 10.44.21.254	10.44.21.255	85	Virtual Cluster Hearth		10.44,85.1 to 10.44,85.254	10.44.85.255		Future	10.44.149.0	10.44,149.1 to 10.44,149.254	10.44.149.255		213 Future	10.44.213.0	10.44,213.1 to 10.44.213.254	10.44.213.255
22 MHT Users	10.44.22.0	10.44.22.1 to 10.44.22.126	10.44.22.127	86	Future	10.44.86.0	10.44.86.1 to 10.44.86.254	10.44.86.255	15	Future	10.44.150.0	10.44.150 1 to 10.44.150.254	10.44.150.255		214 Future	10.44.214.0	10.44.214.1 to 10.44.214.254	10.44.214.255
23 Future	10.44.23.0	10.44 23.1 to 10.44 23 254	10.44 23.255	87	Future	10.44.87.0	10.44.87.1 to 10.44.87.254	10.44.87.255	15	Future	10.44.151.0	10:44:151 1 to 10:44:151:254	10.44 151.255		215 Future	10.44.215.0	10.44.215.1 to 10.44.215.254	10.44.215.255
24 MHT Accounting Us	sers 10.44.24.0	10.44.24.1 to 10.44.24.254	10.44.24.255	88	Future	10.44.88.0	10.44.88.1 to 10.44.88.254	10.44.88.255	1.5.	Future	10.44.152.0	10.44.152.1 to 10.44.152.254	10.44.152.255		216 Future	10.44.216.0	10.44.216.1 to 10.44.216.254	10.44.216.255
25 Admin Users	10.44.25.0	10.44.25.1 to 10.44.25.254	10.44.25.255	89	Future	10.44.89.0	10.44.89.1 to 10.44.89.254	10.44.89.255	15	Future	10.44.153.0	10.44.153.1 to 10.44.153.254	10.44.153.255		217 Future	10.44.217.0	10.44.217.1 to 10.44.217.254	10.44.217.255
26 MHT Wireless Author	enticat 10.44.26.0	10.44.26.1 to 10.44.26.254	10.44.26.255	90	Future	10.44.90.0	10.44.90.1 to 10.44.90.254	10.44.90.255	15	Future	10.44.154.0	10.44.154.1 to 10.44.154.254	10.44.154.255		218 Future	10.44.218.0	10.44.218.1 to 10.44.218.254	10.44.218.255
27 LEO Users	10.44.27.0	10.44.27.1 to 10.44.27.254	10.44.27.255	91	Future	10.44.91.0	10.44.91.1 to 10.44.91.254	10.44.91.255	15	Future	10.44.155.0	10.44.155.1 to 10.44.155.254	10.44 155 255		219 Future	10.44.219.0	10.44.219.1 to 10.44.219.254	10.44.219.255
28 MHT Building Main	ntenan 10 44.26.0	10.44 28 1 to 10.44 28 254	10.44.28.255	92	Future	10.44.92.0	10.44.92.1 to 10.44.92.254	10.44.92.255	15	Future	10.44.156.0	10.44.156.1 to 10.44.156.254	10.44 156.255		220 Future	10.44.220.0	10.44.220.1 to 10.44.220.254	10.44.220.255
29 MHT TSA Users	10.44.29.0	10.44.29.1 to 10.44.29.254	10.44.29.255	93	Future	10.44.93.0	10.44.93.1 to 10.44.93.254	10.44.93.255	15	Future	10.44.157.0	10.44.157.1 to 10.44.157.254	10.44.157.255		221 Future	10.44.221.0	10.44.221.1 to 10.44.221.254	10.44.221.255
30 MHT Printers	10.44.30.0	10.44.30.1 to 10.44.30.254	10.44.30.255	94	Future	10.44.94.0	10.44.94.1 to 10.44.94.254	10.44.94.255	15	Future	10.44.158.0	10.44.158.1 to 10.44.158.254	10.44.158.255		222 Future	10.44.222.0	10.44.222.1 to 10.44.222.254	10.44.222.255
81 MHT Security Users	s 10.44.31.0	10.44.31.1 to 10.44.31.254	10.44.31.127	95	Future	10.44.96,0	10.44.95.1 to 10.44.95.254	10.44.95.255	15	Future	10.44.159.0	10.44.159.1 to 10.44.159.254	10.44.159.255		223 Future	10.44.223.0	10.44.223.1 to 10.44.223.254	10.44.223.255
32 MHT Fingerprint Sy	ystem 10.44.32.0	10.44.32.1 to 10.44.32.254	10.44.32.127	96	Future	10.44.96.0	10.44.96.1 to 10.44.96.254	10.44.96.255	16	Future	10,44,160,0	10.44 160.1 to 10.44 160.254	10.44.160.255		224 Future	10.44.224.0	10:44.224.1 to 10.44.224.254	10.44.224.255
33 Guest	10.44.33.0	10.44.33.1 to 10.44.33.254	10.44.33.127	97	Future	10.44.97.0	10.44.97.1 to 10.44.97.254	10.44.97.255	16	Future	10.44.161.0	10.44.161.1 to 10.44.161.254	10.44.161.255		225 Future	10.44.225.0	10.44.225.1 to 10.44.225.254	10.44.225.255
34 Future	10.44.34.0	10.44.34.1 to 10.44.34.254	10.44.34.127	98	Future	10.44.98.0	10.44.98.1 to 10.44.98.254	10.44 98.255	16	Future	10.44.162.0	10.44.162.1 to 10.44.162.254	10.44.162.255		226 Future	10.44.226.0	10.44.226.1 to 10.44.226.254	10.44.226.255
35 Future	10 44 35 0	10.44.35.1 to 10.44.35.254	10.44.35.127	99	Future	10 44 99 0	10.44.99.1 to 10.44.99.254	10.44.99.255		Future	10 44 163 0	10.44.163.1 to 10.44.163.254	10.44 163.255		227 Future	10.44.227.0	10.44.227.1 to 10.44.227.254	10.44.227.255
36 Future	10.44.36.0	10.44.36.1 to 10.44.36.254	10.44.36.127	100		10.44.100.0	10.44.100.1 to 10.44.100.254	10.44.100.255	1	Future	10.44.164.0	10.44.164.1 to 10.44.164.254	10.44.164.255		228 Future	10.44.228.0	10 44 228 1 to 10 44 228 254	10.44.228.255
37 Future	10.44.37.0	10.44.37.1 to 10.44.37.254	10.44.37.127	101	Hudson-Manchester	10.44.101.0	10.44.101.1 to 10.44.101.254	10.44.101.255		Future	10.44.165.0	10.44.165.1 to 10.44.165.254	10.44.165.255		229 Future	10.44.229.0	10.44.229.1 to 10.44.229.254	10.44.229.255
38 Future	10.44.38.0	10.44.38.1 to 10.44.38.254	10.44.38.127	8	Ben and Jerry's	10.44.102.0	10 44 102 1 to 10 44 102 254	10.44.102.255		Future	10.44.166.0	10.44.166.1 to 10.44.166.254	10.44.166.255		230 Future	10.44.230.0	10.44.230.1 to 10.44.230.254	10.44.230.255
			Company of	£	Maria de Company					Future			2					3
30 Future	10.44.39.0	10 44 39 1 to 10 44 39 254	10.44.39.127	103	Worldwide Flight Svo	- Lucanasan	10.44.103.1 to 10.44.103.254	10.44.103.255	5		10.44.167.0	10,44:167.1 to 10.44:167.254	10.44 167.255		E March 1	10.44.231.0	10.44.231.1 to 10.44.231.254	10.44.231.255
40 Future	10.44.40.0	10.44.40.1 lb 10.44.40.254	10.44.40.127			10.44.104.0	10.44.104.1 to 10.44.104.254			Future	10.44.168.0	10.44.168.1 to 10.44.168.254			232 Future	10.44.232.0	10.44.232.1 to 10.44.232.254	10.44 232 255
41 Future	10.44,41.0	10.44.41.1 to 10.44.41.254	10.44.41.255	105		10.44.105.0	10.44.105.1 to 10.44.105.254	10.44 105.255		Future	10.44.169.0	10.44.169.1 to 10.44.169.254	10.44 169.255		233 Future	10.44 233.0	10.44.233.1 to 10.44.233.254	10.44.233.255
42 Southwest DMZ	10.44.42.0		10.44.42.255	11000	Future		10.44.106.1 to 10.44.106.254	10.44 106 255	+	Future	10.44.170.0	10.44.170.1 to 10.44.170.254	10.44 170.255		234 Future		10.44.234.1 to 10.44.234.254	10.44 234 255
43 Future	10.44.43.0	PRESIDENT PORTINGENERS	10.44.43.255		Future	10.44.107.0	10.44.107.1 to 10.44.107.254	10.44.107.255		Future	10.44.171.0	10.44.171.1 to 10.44.171.254	10.44.171.255		235 Future		10.44.235.1 to 10.44.235.254	10.44.235.255
44 Future	10.44.44.0		10.44.44.255	3	Future	10.44.108.0	10.44.108.1 to 10.44.108.254	10.44.108.255	17.	Future	10.44.172.0	10.44.172.1 to 10.44.172.254	10.44.172.255		236 Future	10.44.236.0	10.44.236.1 to 10.44.236.254	10.44.236.265
45 Johnson Controls	10.44.45.0	10.44.45.1 to 10.44.45.254	10.44.45.255	2	Future	10.44.109.0	10.44.109.1 to 10.44.109.254	10.44.109.255	12:	Future	10.44.173.0	10.44.173.1 to 10.44.173.254	10.44.173.255		237 Future	10.44.237.0	10.44.237.1 to 10.44.237.254	10.44.237.255
46 Future	10.44.46.0	10.44.46.1 to 10.44.46.254	10.44.46.255	110	Future	10.44.110.0	10.44.110.1 to 10.44.110.254	10.44.110.255	17	Future	10.44.174.0	10.44.174.1 to 10.44.174.254	10.44.174.255		238 Future	10.44.236.0	10.44.238.1 to 10.44.238.254	10.44.238.255
47 Future	10.44.47.0	10.44.47.1 to 10.44.47.254	10.44.47.255	111	Future	10.44.111.0	10.44.111.1 to 10.44.111.254	10.44 111.255	17	Future	10.44.175.0	10.44.175 1 to 10.44.175.254	10.44 175 255		239 Future	10.44.239.0	10.44.239.1 to 10.44.239.254	10.44 239 255
48 Future	10.44.48.0	10.44.48.1 to 10.44.48.254	10.44.48.255	112	Future	10.44.112.0	10.44.112.1 to 10.44.112.254	10.44.112.255	17	Future	10.44.176.0	10.44.176.1 to 10.44.176.254	10.44.176.255		240 Future	10.44.240.0	10.44.240.1 to 10.44.240.254	10.44.240.255
49 Future	10.44.49.0	10.44.49.1 to 10.44.49.254	10.44.49.255	113	Future	10.44.113.0	10.44.113.1 to 10.44.113.254	10.44 113 255	17	Future	10.44.177.0	10.44.177.1 to 10.44.177.254	10.44.177.255		241 Future	10,44,241.0	10.44 241.1 to 10.44 241.254	10.44.241.255
50 Future	10.44.50.0	10.44.50.1 to 10.44.50.254	10.44.50.255	114	Future	10.44.114.0	10 44 114 1 to 10.44 114 254	10.44 114.255	12	Future	10.44.178.0	10.44.178.1 to 10.44.178.254	10.44.178.255		242 Future	10.44.242.0	10.44.242.1 to 10.44.242.254	10.44.242.255
51 Future	10.44.51.0	10.44.51.1 to 10.44.51.254	10.44.51.255	115	Future	10.44.115.0	10:44:115.1 to 10:44.115.254	10.44.115.255	17	Future	10.44.179.0	10.44.179.1 to 10.44.179.254	10.44.179.255		243 Future	10.44.243.0	10.44.243.1 to 10.44.243.254	10.44.243.255
52 Future	10.44.52.0	10.44.52.1 to 10.44.52.254	10.44.52.255	116	Future	10.44.116.0	10.44.116.1 to 10.44.116.254	10.44.116.255	18	Future	10.44.180.0	10.44.180.1 to 10.44.180.254	10.44.180.255		244 Future	10.44.244.0	10:44:244:1 to 10:44:244:254	10.44.244.255
53 Future	10.44.53.0	10.44.53.1 to 10.44.53.254	10.44.53.255	117	Future	10.44.117.0	10.44.117.1 to 10.44.117.254	10.44.117.255	18	Future	10.44.181.0	10.44.181.1 to 10.44.181.254	10.44.181.255		245 Future	10.44.245.0	10.44.245.1 to 10.44.245.254	10.44.245.255
54 Future	10.44.54.0	10.44.54.1 to 10.44.54.254	10.44.54.255	E	Dunkin Donuts	10.44.118.0	10.44 118 1 to 10.44 118.254	10.44 118 255		Future	10.44.182.0	10.44.182.1 to 10.44.182.254	10.44 182 255		246 Future	10.44.246.0	10.44 246.1 to 10.44 246 254	10.44 246 255
55. Signs	10.44.55.0	10.44.55.1 to 10.44.55.254	10.44.55.255		Audax Technologies		10.44 119.1 to 10.44 119.254	10.44.119.255		Future	10.44.183.0	10.44,183.1 to 10.44,183.254	10.44.183.255		247 Future		10.44.247.1 to 10.44.247.254	10.44.247.255
56 Future	10.44.56.0		10.44 56 255	100	VLAN 709	10.44.120.0	10.44.120.1 to 10.44.120.254	10.44 120 255	7	Future	10.44.184.0	10.44.184.1 to 10.44.184.254	10.44.184.255		248 Future		10.44.248.1 to 10.44.248.254	10.44.248.255
87 Future	10.44.57.0		10.44 57 255	- 100	City Network		10.44.121.1 to 10.44.121.254	10.44.121.255		Future	10.44.185.0	10.44.185.1 to 10.44.185.254	10.44.185.255		249 Future		10.44.249.1 to 10.44.249.254	10.44.249.255
58 Future	10.44.57.0		10.44.58.255	4	External Natwork		10.44.122.1 to 10.44.122.254	10.44.121.255	2	Future	10.44.186.0	10.44.186.1 to 10.44.186.254	10.44.186.255		250 Future		10.44.250.1 to 10.44.250.254	10.44.249.255
				1					5									
59 Future	10.44.59.0	Tables of the section	10.44.59.255	Same of the last of	FDDI Default	10.44.123.0		10.44.123.255	Same of the last	Future	10.44.187.0	10.44.187.1 to 10.44.187.254	10.44.187.255		251 Future		10.44.251.1 to 10.44.251.254	10.44.251.255
60 Camera	10.44.60.0		10.44.60.265		FDDinet Default		10.44.124.1 to 10.44.124.254	10.44.124,255		Future	10.44.188.0	10.44,188,1 to 10.44,188,254	10.44.188.255		252 Future		10.44.252.1 to 10.44.252.254	10.44.252.255
61 Future	10.44.61.0		10.44.61.255		TRBF Default	10.44.125.0	10.44.125.1 to 10.44.125.254	10.44 125.255		Future	10.44.189.0	10.44.189.1 to 10.44.189.254	10.44 189.255		253 Future		10.44.253 1 to 10.44.253.254	10.44.253.255
62 Future	10.44,62.0	10.44.62.1 to 10.44.62.254	10.44.62.255		Future	10.44.126.0	10.44.126.1 to 10.44.126.254	10.44 126.255		Future	10,44,190,0	10.44.190.1 to 10.44.190.254	10.44 190.255		254 Network Management	10,44,254,0	10.44.254.1 to 10.44.254.254	10.44.254.255
63 Future	10.44.63.0	10.44 63.1 to 10.44 63 254	10.44 63 265	127	Future	10.44.127.0	10.44.127.1 to 10.44.127.254	10.44.127.255	19	Future	10.44.191.0	10 44 191 1 to 10 44 191 254	10.44.191.255					
														_			_	

SERVER FARM AAFF (45)

Servi	er Farm	ARFF	10.45.0.0/2	4	٨	/HT IP A	ddressing Plan	1	ľ	ATT (43)			1				
VLAN Function	Network	Hosts	The state of the second	3323 and 114	Function	Network	Hosts	Broadcast	VLAI	Function	Network	Hosts	Broadcast	VLAN Function	Network	Hosts	Broadcast
Core Uplinks	10.45.0.0	10.45.0.1 to 10.45.0.254	10.45.0.255		Core Uplinis	10.45.64.0	10.45.64.1 to 10.45.64.254	10.45.64.255		Core Uplinks	10.45.128.0	10.45.128.1 to 10.45.128.254	10 45 128 255	Care Uplinie	10.45.192.0	10.45 192 1 to 10.45 192 254	10.45 192.255
1 Defauit	10.45.1.0	10.45.1.1 to 10.45.1.254	10.45 1.255	1	City Unrouted	10.45.65.0	10.45.65.1 to 10.45.65.254	10.45 65 255		Future	10.45.129.0	10.45.129.1 to 10.45.129.254	10.45 129.255	193 Future	10.45.193.0	10.45.193.1 to 10.45.193.254	10.45.193.255
2 Admin	10.45.2.0	10.45.2.1 to 10.45.2.254	10	66	7993107	10.45.66.0	10.45.66.1 to 10.45.66.254	10.45 66 255		Future	10.45.130.0	10.45.130.1 to 10.45.130.254	10.45.130.255	194 Future	10.45.194.0	10.45.194.1 to 10.45.194.254	10.45.194.255
3 FIDS 4 Security	10.45.3.0	10.45.3.1 to 10.45.3.254	10.45.3.255	68	Future	10.45.67.0	10.45.67.1 to 10.45.67.254 10.45.68.1 to 10.45.68.254	10.45.67.255	8	Future	10.45.131.0	10.45.131.1 to 10.45.131.254	10.45.131.255	195 Future	10.45.195.0	10.45.195.1 to 10.45.195.254	10.45.195.255
5 Security Camera	10.45.5.0	10.45.5.1 to 10.45.5.254	10.45.5.255		Future	10.45.69.0	10.45.69.1 to 10.45.69.254	10.45.69.255	1	Future	10.45.133.0	10.45.133.1 to 10.45.133.254	10.45 133.255	197 Future	10.45.197.0	10.45.197.1 to 10.45.197.254	10.45 197.255
6 Taxi	10.45.6.0	10.45.5.1 to 10.45.6.264	10.45.6.255		Power Related	10.45.70.0	10.45 70.1 to 10.45.70.254	10.45.70.255	£	Future	10.45.134.0	10.45.134.1 to 10.45.134.254	10.45 134 255	198 Future	10.45.198.0	10.45 198 1 to 10.45 198 254	10.45 198 255
7 HVAC	10.45.7.0	10.45.7.1 to 10.45.7.254	10.45.7.255		Future	10.45.71.0	10.45.71.1 to 10.45.71.254	10.45.71.255		Future	10.45.135.0	10.45.135.1 to 10.45.135.254	10.45 135 255	199 Future	10.45.199.0	10.45 199 1 to 10.45 199 254	10.45 199.255
B Comcast - Passenger	10.45.8.0	10.45.8.1 to 10.45.8.254	10.45.8.255	72	Future	10.45.72.0	10.45.72.1 to 10.45.72.254	10.45.72.255	136	Future	10.45.136.0	10.45.136.1 to 10.45.136.254	10.45 136.255	200 Future	10.45.200.0	10.45 200 1 to 10.45 200 254	10.45 200.255
9 WiFi Private	10.45.9.0	10.45.9.1 to 10.45.9.254	10.45.9.255	73	Future	10.45.73.0	10.45.73.1 to 10.45.73.254	10.45.73.255	137	Future	10.45.137.0	10.45.137.1 to 10.45.137.254	10.45.137.255	201 Future	10.45.201.0	10.45.201.1 to 10.45.201.254	10.45.201.255
10 Comcast - Personnel	10.45.10.0	10.45.10.1 to 10.45.10.254	10.45 10.127	74	Future	10.45.74.0	10.45.74.1 to 10.45.74.254	10.45.74.255	138	Future	10.45.138.0	10.45.138.1 to 10.45.138.254	10.45.138.255	202 Future	10.45.202.0	10.45.202.1 to 10.45.202.254	10.45.202.255
11 ILO	10.45.11.0	10.45.11.1 to 10.45.11.254	10.45 11.255	75	Future	10.45.75.0	10.45.75.1 to 10.45.75.254	10.45.75.255	139	Future	10.45.139.0	10.45 139 1 to 10.45 139 254	10.45.139.255	203 Future	10.45.203.0	10.45.203.1 to 10.45.203.254	10.45.203.255
12 Conveyor	10.45,12.0	10.45.12.1 to 10.45.12.254	10.45.12.255	76	Future	10.45.76.0	10.45.76.1 to 10.45.76.254	10.45.76.255	140	Future	10.45.140.0	10.45.140.1 to 10.45.140.254	10.45 140.255	204 Future	10.45.204.0	10.45,204.1 to 10.45.204.254	10.45.204.255
13 Future	10.45.13.0	10.45.13.1 to 10.45.13.254	10.45 13.255	77	Future	10.45.77.0	10.45.77.1 to 10.45.77.254	10.45.77.255	141	Future	10.45.141.0	10.45.141.1 to 10.45.141.254	10.45 141.255	205 Future	10.45.205.0	10.45.205.1 to 10.45.205.254	10.45.205.255
14 VMWam Vmotion	10.45.14.0	10.45.14.1 to 10.45.14.254	10.45 14 255	78	Future	10.45.78.0	10.45.78.1 to 10.45.78.254	10.45.78.255	142	Future	10.45.142.0	10.45.142.1 to 10.45.142.254	10.45 142 255	206 Future	10.45.206,0	10.45,206.1 to 10.45,206,254	10.45.206.265
15 Wireless Infrastructure	10.45.15.0	10.45.15.1 to 10.45.15.126	10.45 15.127	79	Future	10.45.79.0	10.45.79.1 to 10.45.79.254	10.45.79.255	143	Future	10.45.143.0	10.45.143.1 to 10.45.143.254	10.45 143.255	207 Future	10.45.207.0	10.45,207.1 to 10.45,207.254	10.45.207.255
16 Future	10.45.16.0	10.45.16.1 to 10.45.16.254	10.45 16 255	80	Future	10.45.80.0	10 45 80 1 to 10 45 80 254	10.45.80.255	144	Future	10 45 144 0	10.45.144 1 to 10.45 144.254	10.45 144.255	208 Future	10.45.208.0	10.45 208 1 to 10.45 208 254	10.45.208.255
17 Future	10.45.17.0	10.45.17.1 to 10.45.17.254	10.45.17.255	81	Future	10.45.81.0	10.45.81.1 to 10.45.81.254	10.45.81.255	145	Future	10.45.145.0	10.45.145.1 to 10.45.145.254	10.45.145.255	209 Future	10.45.209.0	10.45.209.1 to 10.45.209.254	10.45.209.255
18 Future	10.45.18.0	10.45.18.1 to 10.45.18.254	10.45.18.255	82	Future	10.45.82.0	10.45.82.1 to 10.45.82.254	10.45.82.255	146	Future	10.45.146.0	10.45.146.1 to 10.45.146.254	10.45.146.255	210 Future	10.45.210.0	10.45.210.1 to 10.45.210.254	10.45.210.255
19 Future	10.45.19.0	10.45.19.1 to 10.45.19.254	Lancas de la constante de la c	83	Future	10.45.83.0	10.45.83.1 to 10.45.83.254	10.45.83.255	E	Future	10.45.147.0	10.45.147.1 to 10.45.147.254	10.45.147.255	211 Future	10.45.211.0	10.45.211.1 to 10.45.211.254	10.45.211.255
20 MHT Desktops	10.45.20.0	10.45.20.1 to 10.45.20.254	10.45.20.255		Future	10.45.84.0	10.45.84.1 to 10.45.84.254	10.45.84.255		Future	10.45.148.0	10.45.148.1 to 10.45.148.254	10.45 148.255	212 Future	10.45.212.0	10.45.212.1 to 10.45.212.254	10.45.212.255
21 Future	10.45.21.0	10.45.21.1 to 10.45.21.254	10.45.21.255		Virtual Cluster Heartbe		10.45.85.1 to 10.45.85.254	10.45.85.255		Future	10.45,149.0	10.45.149.1 to 10.45.149.254	10.45.149.255	213 Future	10.45.213.0	10.45.213.1 to 10.45.213.254	10.45.213.255
22 MHT Users	10.45.22.0	10.45.22.1 to 10.45.22.126	10.45.22.127	86	Future	10.45.86.0	10.45.86.1 to 10.45.86.254	10.45 86 255		Future	10.45.150.0	10.45.150.1 to 10.45.150.254	10.45.150.255	214 Future	10.45.214.0	10 45 214 1 to 10 45 214 254	10.45.214.255
23 Future	10.45.23.0	10.45.23.1 to 10.45.23.254	10.45 23.255	3	Future	10.45.87.0	10.45.87.1 to 10.45.87.254	10.45.87.255		Future	10.45.151.0	10.45.151.1 to 10.45.151.254	10 45 151 255	215 Future	10.45.215.0	10.45.215.1 to 10.45.215.254	10.45.215.255
24 MHT Accounting Users	10.45.24.0	10 45 24 1 to 10 45 24 254		88		10.45.88.0	10.45.88.1 to 10.45.88.254	10.45.88.255	1	Future	10.45.152.0	10.45.152.1 to 10.45.152.264	10.45.152.255	216 Future	10.45.216.0	10.45.216.1 to 10.45.216.254	10 45 216 255
25 Admin Users	10.45.25.0	10.45.25.1 to 10.45.25.254 10.45.26.1 to 10.45.26.254	10.45.25.255		Future	10.45.89.0	10.45.89.1 to 10.45.89.254	10.45.89.255	153		10.45.153.0	10.45.153.1 to 10.45.153.254	10.45.153.255	217 Future	10.45.217.0	10.45.217.1 to 10.45.217.254	10.45.217.255
26 MHT Wireless Authentics 27 LEO Users	10.45.26.0	10.45.26.1 to 10.45.26.254	10.45.26.265	-	Future	10.45.90.0	10.45.90.1 to 10.45.90.254 10.45.91.1 to 10.45.91.254	10.45.90.255	4440	Future	10.45.154.0	10.45.154.1 to 10.45.154.254 10.45.155.1 to 10.45.155.254	10.45.154.255	218 Future	10.45.218.0	10.45.218.1 to 10.45.218.254 10.45.219.1 to 10.45.219.254	10.45.218.255
27 LEO Users 28 MHT Building Maintena		10.45 28 1 to 10.45 28 254	10.45.27.255		Future	10.45.92.0	10.45.91.1 to 10.45.91.254	10.45.91.255		Future	10.45.156.0	10.45.156.1 to 10.45.156.254	10.45 155.255	219 Future	10.45.219.0	10.45.229 1 to 10.45.229.254	10.45.219.255
29 MHT TSA Users	10 45 29 0	10 45 29 1 to 10 45 29 254	10.45.29.255		Future	10.45.93.0	10 45 93.1 to 10 45 93 254	10.45.93.255	1.00	Future	10.45.157.0	10.45.157.1 to 10.45.157.254	10.45.157.255	221 Future	10.45.221.0	10.45.221.1 to 10.45.221.254	10.45.221.255
30 MHT Printers	10.45.30.0	10.45.30.1 to 10.45.30.254	10.45.30.255	7	Future	10.45.94.0	10.45.94.1 to 10.45.94.254	10.45.94.255		Future	10.45.158.0	10.45.158.1 to 10.45.158.254	10.45.158.255	222 Future	10.45.222.0	10.45.222.1 to 10.45.222.254	10.45.222.255
31 MHT Security Users	10.45.31.0	10.45.31.1 to 10.45.31.254	10.45.31.127	95		10.45.95.0	10.45.95.1 to 10.45.95.254	10.45.95.255	5	Future	10.45.159.0	10.45.159.1 to 10.45.159.254	10.45.159.255	223 Future	10.45.223.0	10.45.223.1 to 10.45.223.254	10.45.223.255
32 MHT Fingerprint System	10.45.32.0	10.45.32.1 to 10.45.32.254	10.45.32.127	96	Future	10.45.96.0	10.45.96.1 to 10.45.96.254	10.45.96.255	2	Future	10.45.160.0	10.45.160.1 to 10.45.160.254	10.45.160.255	224 Future	10.45.224.0	10.45.224.1 to 10.45.224.254	10.45.224.255
33 Guest	10.45.33.0	10.45.33.1 to 10.45.33.254	10.45.33.127	97	Future	10.45.97.0	10.45.97.1 to 10.45.97.254	10.45 97 255	161	Future	10.45,161.0	10.45.161 1 to 10.45.161.254	10.45 161.255	225 Future	10.45.225.0	10.45.225 1 to 10.45.225.254	10.45.225.255
34 Future	10.45.34.0	10.45.34.1 to 10.45.34.254	10.45.34.127	98	Future	10.45.98.0	10.45.98.1 to 10.45.98.254	10.45 98 255	162	Future	10.45.162.0	10.45.162.1 to 10.45.162.254	10.45 162 255	226 Future	10.45.226.0	10.45.226 1 to 10.45.226.254	10.45.226.255
35 Future	10.45.35.0	10.45.35.1 to 10.45.35.254	10.45.35.127	99	Future	10.45.99.0	10.45.99.1 to 10.45.99.254	10.45.99.255	163	Future	10.45.163.0	10.45.163.1 to 10.45.163.254	10.45 163.255	227 Future	10.45.227.0	10.45.227.1 to 10.45.227.254	10.45.227.255
36 Future	10.45.36.0	10.45.36.1 to 10.45.36.254	10.45 36 127	100	Militown	10.45.100.0	10.45.100.1 to 10.45.100.254	10.45.100.255	164	Future	10.45.164.0	10.45.164.1 to 10.45.164.254	10.45.164.255	228 Future	10.45.228.0	10.45.228.1 to 10.45.228.254	10.45 228 255
37 Future	10.45.37.0	10.45.37.1 to 10.45.37.254	10.45.37.127	101	Hudson-Manchester	10.45.101.0	10.45.101.1 to 10.45.101.254	10.45.101.255	165	Future	10.45.165.0	10.45.165.1 to 10.45.165.254	10.45.165.255	229 Future	10.45.229.0	10.45.229.1 to 10.45.229.254	10.45.229.255
38 Future	10.45.38.0	10.45.38.1 to 10.45.38.254	10.45.38.127	102	Ben and Jerry's	10.45:102.0	10.45.102.1 to 10.45.102.254	10.45.102.255	166	Future	10.45.166.0	10.45.166.1 to 10.45.166.254	10.45.166.255	230 Future	10.45.230.0	10.45.230.1 to 10.45.230.254	10.45.230.255
39 Future	10.45.39.0	10.45.39.1 to 10.45.39.254	10.45.39.127	103	Worldwide Flight Svc	10.45.103.0	10.45.103.1 to 10.45.103.254	10.45 103.255	167	Future	10.45.167.0	10.45.167.1 to 10.45.167.254	10.45 167.255	231 Future	10.45.231.0	10.45.231.1 to 10.45.231.254	10.45.231.255
40 Future	10.45.40.0	10.45.40.1 to 10.45.40.254	10.45.40.127	104	International RAM	10.45.104.0	10.45.104.1 to 10.45.104.254	10.45.104.255	168	Future	10.45.168.0	10.45.168 1 to 10.45.168.254	10.45 168 255	232 Future	10.45.232.0	10.45.232 1 to 10.45.232.254	10.45.232.255
41 Future	10.45.41.0	10.45.41.1 to 10.45.41.254	10.45.41.255	105	Delta	10.45.105.0	10.45.105.1 to 10.45.105.254	10.45 105.255	169	Future	10.45.169.0	10.45.169.1 to 10.45.169.254	10.45 169.255	233 Future	10.45.233.0	10.45.233.1 to 10.45.233.254	10.45.233.255
42 Southwest DMZ	10.45.42.0	10.45.42.1 to 10.45.42.254	10.45 42.255	106	Future	10.45.106.0	10.45.106.1 to 10.45.106.254	10.45 106.255	170	Future	10.45.170.0	10.45.170.1 to 10.45.170.254	10.45 170.255	234 Future	10.45.234.0	10.45.234.1 to 10.45.234.254	10.45 234.255
43 Future	10.45.43.0	10.45.43.1 to 10.45.43.254	10.45.43.255	107	Future	- Commence	10.45.107.1 to 10.45.107.254	10.45.107.255	171	Future	200000000000000000000000000000000000000	10.45.171.1 to 10.45.171.254	10.45.171.255	235 Future	10.45.235.0	10.45.235.1 to 10.45.235.254	10.45.235.255
44 Future		10.45.44.1 to 10.45.44.254		108			10.45.108.1 to 10.45.108.254	10.45.108.255		Future	1	10.45.172.1 to 10.45.172.254	10.45.172.255	236 Future		10.45.236.1 to 10.45.236.254	10.45.236.255
45 Johnson Controls	in the second	10.45.45.1 to 10.45.45.254	Carrie Company	109			10.45,109.1 to 10.45.109.254	10.45.109.255		Future	2000000000	10.45 173 1 to 10.45 173 254	10.45.173.255	237 Future		10.45,237.1 to 10.45,237.254	10.45.237,255
46 Future	10.45.46.0	10.45.46.1 to 10.45.46.254	Control of the Contro	110		American S	10.45,110.1 to 10.45,110.254	10.45.110.255		Future	10.45.174.0	10.45.174.1 to 10.45.174.254	10.45.174.255	238 Future		10 45 238 1 to 10 45 238 254	10.45.238.255
47 Future		10.45.47.1 to 10.45.47.254		111	Service	10.45.111.0	10.45 111.1 to 10.45 111 254	10.45.111.255		Future	10.45.175.0	10.45.175.1 to 10.45.175.254	10.45.175.255	239 Future 240 Future		10.45.239.1 to 10.45.239.254	10.45.239.255
48 Future 49 Future		10.45.48.1 to 10.45.48.254 10.45.49.1 to 10.45.49.254		112	111111111111111111111111111111111111111		10.45.112.1 to 10.45.112.254 10.45.113.1 to 10.45.113.254	10.45 112.255		Future	10.45.176.0	10.45.176.1 to 10.45.176.254 10.45.177.1 to 10.45.177.254	10.45 176 255	241 Future		10.45.240.1 to 10.45.240.254 10.45.241.1 to 10.45.241.254	10.45.240.255
80 Future	- Contract of the Contract of	10.45.49.1 to 10.45.49.254	Towns and the second	114	APPROVED.		10.45 114 1 to 10.45 114 254	10.45 114.255		Future	1970159717154	10.45.178 1 to 10.45.178.254	10.45 177 255	242 Future		10.45.241.1 to 10.45.241.254	10.45.241.255
51 Future		10.45.51.1 to 10.45.51.254		115	1000		10.45.115.1 to 10.45.116.254	10.45 115.255	200	Future	10.45.179.0	10.45.179.1 to 10.45.179.254	10.45.179.255	243 Future		10.45.243.1 to 10.45.243.254	10.45.242.255
52 Future		10.45.52.1 to 10.45.52.254	0	116			10.45.116.1 to 10.45.116.254	10.45.116.255		Future		10.45.180.1 to 10.45.180.254	10.45.180.255	244 Future		10.45.244.1 to 10.45.244.254	10.45.244.255
53 Future	Secretario	10.45.53.1 to 10.45.53.254	O-company	117	- 6	Service House, II	10.45.117.1 to 10.45.117.254	10.45.117.255	S	Future	10.45.181.0	10.45.181.1 to 10.45.181.254	10.45.181.255	245 Future	Contraction and	10.45.245.1 to 10.45.245.254	10.45.245.255
54 Future		10.45.54.1 to 10.45.54.254	in a constant of the constant		Dunkn Donuts	I was a second	10:45:118:1 to 10:45:118:254	10.45 118.255		Future	10.45.182.0	10.45.182.1 to 10.45.182.254	10.45 182 255	246 Future	Annual Control	10.45.246.1 to 10.45.246.254	10.45.246.255
55. Signs	10.45.55.0	10.45.55.1 to 10.45.55.254					10.45.119.1 to 10.45.119.254	10.45 119.255		Future		10.45,183.1 to 10.45,183.254	10.45 183 255	247 Future	10.45.247.0	10.45.247.1 to 10.45.247.254	10.45.247.255
56 Future		10.45.56.1 to 10.45.56.254			VLAN 709		10 45.120.1 to 10.45.120.254	10.45 120 255		Future	10.45.184.0	10.45.184.1 to 10.45.184.254	10.45.184.255	248 Future	10.45.248.0	10 45 248 1 to 10 45 248 254	10.45.248.255
57 Future		10.45.57.1 to 10.45.57.254			City Network		10 45 121 1 to 10 45 121 254	10.45.121.255		Future	10.45.185.0	10.45.185.1 to 10.45.185.254	10.45.185.255	249 Future	1,	10 45 249 1 to 10 45 249 254	10.45.249.255
58 Future	10.45.58.0	10.45.58.1 to 10.45.58.254	10.45.58.255	122	External Network	10.45.122.0	10 45 122 1 to 10 45 122 254	10.45.122.255		Future	10.45.186.0	10.45.186.1 to 10.45.186.254	10.45.186.255	250 Future	10.45.250.0	10.45.250.1 to 10.45.250.254	10.45.250.255
59 Future	10.45.59.0	10.45.59.1 to 10.45.59.254	10.45.59.255	123	FDDI Default	10.45.123.0	10.45.123.1 to 10.45.123.254	10.45.123.255	187	Future	10.45.187.0	10.45.187.1 to 10.45.187.254	10.45.187.255	251 Future	10.45.251.0	10.45.251.1 to 10.45.251.254	10.45.251.255
60 Camera	10.45.60.0	10.45.60.1 to 10.45.60.254	10.45.60.255	124	FDDinet Default	10.45,124,0	10.45.124.1 to 10.45.124.254	10.45.124.255	188	Future	10.45,188.0	10.45.188.1 to 10.45.188.254	10.45.188.255	252 Future	10.45.252.0	10.45.252.1 to 10.45.252.254	10.45.252.255
61 Future	10.45.61.0	10.45.61.1 to 10.45.61.254	10.45.61.255	125	TRBF Default	10.45.125.0	10.45.125.1 to 10.45.125.254	10.45 125.255	189	Future	10.45.189.0	10.45.189.1 to 10.45.189.254	10.45 189.255	253 Future	10.45.253.0	10 45 253 1 to 10 45 253 254	10.45.253.255
62 Future	10.45.62.0	10.45.62.1 to 10.45.62.254	10.45 62.255	126	Future	10.45.126.0	10.45.126.1 to 10.45.126.254	10.45 126.255	190	Future	10.45,190.0	10.45.190.1 to 10.45.190.254	10.45 190.255	254 Network Management	10.45.254.0	10.45.254 1 to 10.45.254.254	10.45.254.255
63 Future	10.45.63.0	10.45.63.1 to 10.45.63.254	10.45 63 265	127	Future	10.45.127.0	10.45.127.1 to 10.45.127.254	10.45.127.255	191	Future	10.45.191.0	10.45.191.1 to 10.45.191.254	10.45.191.255		-		
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APPENDIX I Baggage Screening



APPENDIX I BAGGAGE SCREENING

The first scenario studied was to replace in-kind with L-3-Communications equipment. The PGDS defines that newer versions of the equipment will be expected to be deployed for future systems, these being;

- L-3 3DX SX (310 360 bags per hour, with a nominal 335 bag per hour processing rate);
- L-3 3DX 6600 (470-540 bags per hour, with a nominal 500 bags per hour processing rate); and
- L-3 3DX 6000 in Standalone mod (180 220 bags per hour, with a nominal 200 bags per hour processing rate).

Here we examine the systems from merely a throughput perspective. The capacity of the existing EDS, the proposed replacement EDS, and the demand load of the baggage screening (on a per-pod basis) utilizing L-3 equipment is seen below.

Peak Hour

	Existing	Proposed	Existing
	EDS	EDS	Demand
Air Carrier	Capacity	Capacity	Load
Southwest Airlines [(2) EDS]	650	1000	519
USAirways [1 Primary EDS and 1 Stand-by]	325	335	243
Air Canada/United Airlines	325	335	144
Delta (including NWA)	325	335	198
Vacant	325	335	
Continental	325	335	101

In comparing the demand load to the capacity of the proposed replacement L-3 equipment, it would seem that a plan of replacement in kind would be reasonable, although the resultant capacity may be a bit in excess of the demand.

An examination of how the EDS might be viewed in the Redundant mode, evaluates how much capacity is available from the secondary EDS if the primary EDS is non-operational.

	Proposed EDS	Existing Demand
Air Carrier	Capacity	Load
Southwest Airlines [(2) EDS]		_
Primary EDS	500	
Secondary EDS	500	519
USAirways [1 Primary EDS and 1 Stand-by]		
Primary EDS	335	
Secondary EDS [Stand-by Examiner 3DX SX]	220	243
Air Canada/United Airlines		
Primary EDS	335	
Secondary EDS [In the Delta Module]	335	144

Air Carrier	Proposed EDS Capacity	Existing Demand Load
Delta (including NWA)		_
Primary EDS	335	
Secondary EDS [In the United Airlines Module]	335	198
Vacant for new entrant		
Primary EDS	335	
Secondary EDS [In the CO Airlines Module]	335	XX
Continental		
Primary EDS	335	
Secondary EDS [In the Vacant Module]	335	101

It is speculated that the TSA would find the capacity of the SWA arrangement acceptable. Additionally, it is believed that TSA would ask if there is a better arrangement for USAirways, as the redundant EDS machine in the bagroom is not easily used.

This leads to a discussion of whether an alternate type of EDS might be better suited for upcoming replacement projects. The Reduced Size EDS (RSEDS) (a product of Reveal Inc.) has been deployed on many similar mini-in-line projects in the last couple of years. This is defined as the second scenario.

The second scenario would be to replace the L-3-Communications equipment with Reveal's RSEDS units. The PGDS defines several units for upcoming deployment, including:

- CT-80DR (220 to 230 bags per hour, with a nominal processing rate of 225 bags per hour).
- CT-800 (310 to 360 bags per hour, with a nominal 335 bags per hour processing rate).
- CT-80DR in Standalone mode (110 to 120 bags per hour, with a nominal 115 bags per hour processing rate).
- CT-800 in Standalone mode (180 to 220 bags per hour, with a nominal 200 bags per hour processing rate).

The capacity of the existing EDS, the proposed replacement EDS with RSEDS, and the demand load of the baggage screening (on a per-pod basis) is seen below.

Peak Hour

	Existing	Proposed	Existing
	EDS	EDS	Demand
Air Carrier	Capacity	Capacity	Load
Southwest Airlines [(2) Existing EDS and proposed (3) EDS]	650	1005	519
USAirways [1 Primary EDS and 1 Stand-by]	325	535	243
Air Canada/United Airlines	325	225	144
Delta (including NWA)	325	225	198
Vacant	325	225	
Continental	325	225	101

In comparing the demand load to the capacity of the proposed replacement RSEDS, it would seem that a plan of replacement with RSEDS would be reasonable, but again there is excess capacity.

An examination of how the RSEDS might be viewed in the redundant mode, evaluates how much capacity is available from the secondary EDS if the primary EDS is non-operational.

Southwest Airlines		
Primary EDS [CT-800]	335	
Secondary EDS [CT-800]	335	
Third EDS [CT-800]	335	
Second and Third Combined	670	519
USAirways		
Primary EDS [CT-800DR]	225	
Secondary EDS [Stand-by CT-800]	335	243
Air Canada/United Airlines		
Primary EDS [CT-800DR]	225	
Secondary EDS [In the Delta Module]	225	144
Delta (including NWA)		
Primary EDS [CT-800DR]	225	
Secondary EDS [In the United Airlines Module]	225	198
Vacant for new entrant		
Primary EDS [CT-800DR]	225	
Secondary EDS [In the CO Airlines Module]	225	XX
Continental		
Primary EDS [CT-800DR]	225	
Secondary EDS [In the Vacant Module]	225	101

It is suggested that the TSA would find the capacity of the SWA arrangement acceptable. It might again be speculated that TSA would ask if there is a better arrangement for USAirways, than merely providing a stand-alone RSEDS in the bagroom. For the other four modules, the TSA might suggest that this is an appropriate fit.

It should be noted though that there are challenges with Reveal equipment in a replacement project. There would be a significant amount of communications re-integration that would have to be completed. The Reveal devices also don't currently generate similar reports as the L-3 equipment and, in the Airport Master Plan team's opinion, the reports are not as thorough.

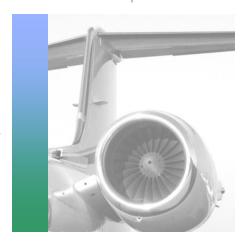
For the replacement projects, the TSA might suggest that they would prefer the CBIS modules be reconfigured to reduce the number of TSOs. Changing from mini-in-line configurations to more common configuration is not very viable, at the very least not an effective use of terminal footprint and dollars.

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APPENDIX J

Factors Impacting Concession Demand



APPENDIX J FACTORS IMPACTING CONCESSION DEMAND

J-1 THE NUMBER OF POTENTIAL CUSTOMERS

The first factor that determines how much concession space is needed is the number of potential customers for the concessions. While the primary market is enplaning passengers, secondary markets that must be considered include deplaning passengers, meeters/greeters, the party which brings the passenger to the Airport, and employees based in or within close proximity to the terminal. Tertiary markets which may be drawn upon in certain cases include airport-based employees whose primary place of business is elsewhere on the airport besides the terminal and its environs, and local residents.

Table J-1 shows historical and forecast enplaned passenger figures for the terminal at MHT.

TABLE J-1
HISTORIC AND FORECAST ENPLANED PASSENGERS
AT MANCHESTER-BOSTON REGIONAL AIRPORT

	Enplaned Passengers
2005	2,168,258
2006	1,952,277
2007	1,948,313
2008	1,861,695
2009	1,595,477
2010	1,494,000
2011	1,505,000
2012	1,561,000
2013	1,600,000
2014	1,634,000
2015	1,668,000

Source: Airport Records; URS Team Forecasts

Deplaning passengers have historically not been considered when planning concessions at US airports. It has generally been accepted that these persons just want to leave the airport as quickly as possible and rarely stop to shop.

Meeter/greeters are people who come to the Terminal to pick-up travelers arriving at the Airport. The people who bring and accompany enplaning passengers to the Airport are a second group of interest. Both offer the potential to become concession customers. In the case of the former, meeter/greeters are waiting for arrivals, often with little or nothing to do. When there are flight delays, their waits may be indeterminate in length. They, along with employees, form a core of potential customers for landside (i.e. non-secure areas) concessions. The individuals or group which accompanies the passengers to the Airport may be potential concession customers if they are looking to spend time with their friends and

family before those people depart from MHT, although they rarely stay at the airport very long once the departing traveler is in the security queue.

Employees at the airport are a key potential market for concessions. These people spend a good portion of their days either in or around the Terminal and are likely to utilize the shops, especially the food service concessions. While no estimate of the impact of the employee market is included in the projections of concession demand, providing concessions that attract and serve the needs of this large market can only help to increase concession sales.

J-2 TERMINAL CONFIGURATION/CUSTOMER FLOWS

Another factor that impacts concessions sales is the configuration of the Terminal and the resulting movement of passengers. How passengers arrive at their final destination within the airport can greatly impact concession sales. As a general rule, the success of a concession location is predicated on "exposures" (how many people see the location). However, a large number of exposures do not, by themselves, guarantee concession success. For example, every person at MHT who is boarding a flight passes by the landside concessions, providing substantive exposure. Not everyone will choose to stop and make a purchase at those locations for a number of reasons:

- Potential customers see the lines at the security checkpoint and they are worried about how long it will take for them to get through the security queue. As their first priority is boarding their flight, they will tend to shy away from stopping to shop or eat.
- The configuration of the security queuing basically bisects the terminal, resulting in
 potential customers having to walk around numerous obstacles in order to reach the
 concession locations.
- The food court is essentially hidden from sight until a potential customer is near or in the security queue. It is difficult to spot from a distance.
- In order for a departing passenger to access the Dunkin Donuts or the Hudson News, they must pass through the areas where many meeter/greeters wait for their arriving friends and family. This sets up an additional impediment to access.

On the secure side of the Terminal, passengers immediately are segregated by airline, with Southwest's passengers heading toward the higher numbered gates on the north side of the Terminal and passengers of all other airlines either going straight towards their holdrooms or bearing off towards the lower numbered gates. This means that only certain passengers will be exposed to each airside concession location, unless they wish to wander the Terminal, which is not a common behavior. Generally, it is held that travelers wish to get to their holdroom areas and stay there, wandering only short distances and trying to keep their holdrooms in visual range.

J-3 SECURITY ISSUES

Enhanced security has had a major impact on concession sales and placement at US airports. Some impacts have likely been beneficial to concession sales:

- By encouraging early arrival at the airport, potential customers tend to have more dwell time at an airport, which may encourage shopping and purchasing as entertainment to fill otherwise idle time.
- By banning large amounts (greater than 3 ounces) of lotions and liquids passing through security checkpoints, a potential market for the purchase of such products on the secure side of the terminal has been established. Additionally, there is the potential for toiletries to be needed by arriving passengers who had to discard products from their carry-on bags at their embarkation point.

Conversely, some impacts have likely negatively impacted concession sales and operations:

- When potential customers see a long security line, they tend to get in it rather than spend time at landside concessions.
- With the ban on carrying liquids through security, it has eliminated sales of such items on the non-secure side of the Terminal to the primary customer (departing passengers).
- The time spent passing through security screening is time that is not spent shopping or dining.
- The requirement for screening of merchandise being brought to shops and restaurants on the secure side of the Terminal has added to both the cost and difficulty of concession operations. It is highly likely that these requirements will become more stringent in the future.
- Screening of concession goods at passenger screening checkpoints may cause resentment among passengers for the extra time that it adds to their waits. This may translate into a choice not to shop.

J-4 DWELL TIME/ALTERNATIVE ACTIVITIES

Simply stated, the more time that potential customers have to spend at the airport, the more likely it is that they will make a purchase from either a food service or retail concession. However, total time at an airport must also account for the completion of necessary functions, like ticketing/obtaining boarding passes, checking baggage, and passing through security screening. Therefore, commercial dwell time, or the time that a person has to shop or eat is actually much less than the total time span from parking a car to boarding a flight. MHT offers relatively close proximities and shorter queuing lines that manifest in more commercial dwell time for those customers that plan 1.5 - 2.0 hour arrivals before departure.

J-5 CONCESSION PRICING POLICY

Concession pricing can have a substantial impact on overall sales at airport venues. MHT's concession agreements require pricing that reflects prevailing market conditions in the greater Manchester area, other tenant's pricing structure at the airport, and a good price-value relationship for the product or service sold.

J-6 FLIGHT STAGE LENGTH/IN-FLIGHT AMENITIES

By choosing to eliminate free food on aircraft, airlines have helped to spur the utilization of airport concessions. Travelers on most flights of relatively short stage length, such as the majority of those from MHT, are not fed at all, or are fed only snacks such as pretzels or peanuts. As a result, passengers tend to purchase food for consumption before they leave the airport or during their flight. This has spurred the growth of "grab 'n go" food service concessions, and the importance of quick-service restaurants at MHT.

J-7 CONCESSION BRANDING

Concession branding is a key issue in the preparation of a plan for an airports' commercial operation. The types of concessions that an airport wishes to offer dictates much of how it can/should act in populating its stores and shops. Generally speaking, there are three branding strategies available to airports, with numerous subcategories beneath each type of branding.

National or international brands are those that are well known to people regardless of where they reside. MHT examples include Dunkin Donuts, Starbucks, Quiznos, and Pizza Hut among literally hundreds of "street" brands that have a presence at US airports. Purchases of products from these branded shops offer security to the purchaser...they have a level of expectation based on experience and knowledge of the brand and are comfortable purchasing from those shops. The customer has a very good idea of what he or she will receive, the quality, the prices, etc. Related to this are product-themed shops and restaurants, featuring a known brand. Samuel Adams Brewhouse is an example of this type of branding. A subset of national branding is well-known airport-only (or airport predominant) brands. MHT's Hudson News is a prime example of this.

A second branding strategy is local branding, where the concessions are outlets of well-known local restaurants and retail locations. At MHT, the Milltowne Grille (which promotes itself on its website as a full service bistro that happens to be at an airport, but not "an airport restaurant") and Smuttynose Café (a regional craft-beer brewer) are examples of local brands. A major benefit of having locally branded concessions is that these concessions bring a flavor of the community to the airport and offer a "sense of place" that national and international brands do not. Local brands help to make an airport's concession program more unique, which may help to spur customer purchases because there are products that they cannot get at any other airport. There is also a potential public relations benefit as local operators get involved in the airport and more revenue stays in the airport's community.

J-8 PHOTOGRAPHS OF EXISTING CONCESSIONS

Samuel Adams Meeting House



Food Court Concessions



Flower Vending Machine



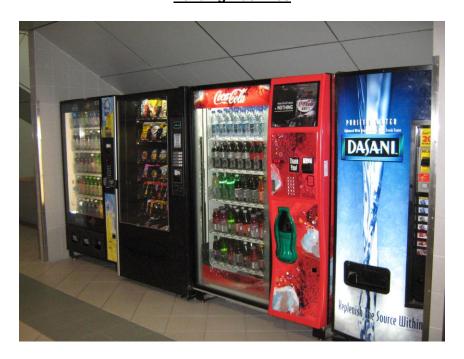
Hudson News Landside



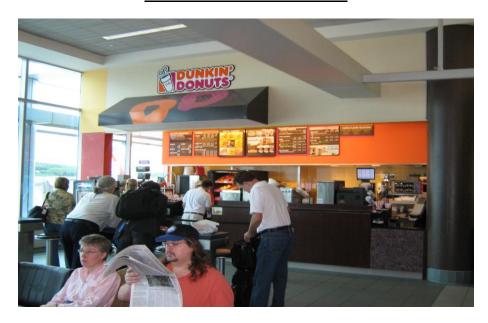
Dunkin Donuts Landside



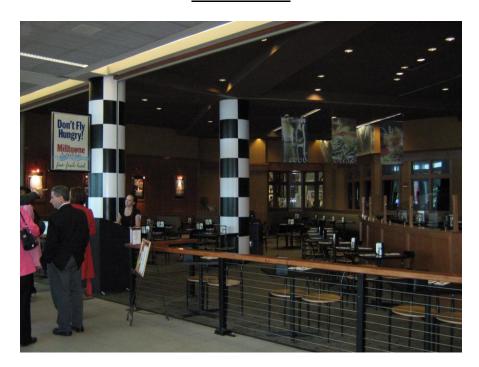
Vending Machines



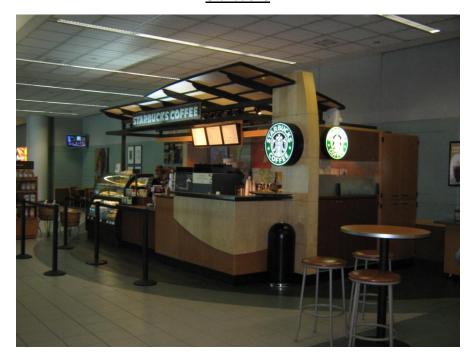
Dunkin Donuts Airside Location



Milltowne Grille



Starbucks



Great American Bagel Café



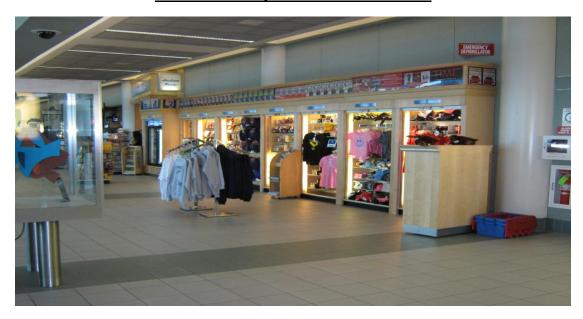
Sam Adams Pub and Café



Quiznos



Hudson News Adjacent to Southwest Gates



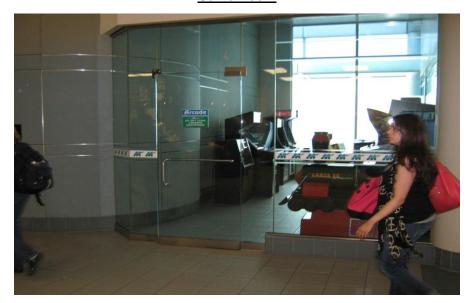
Hudson News Near Gates 8 and 9



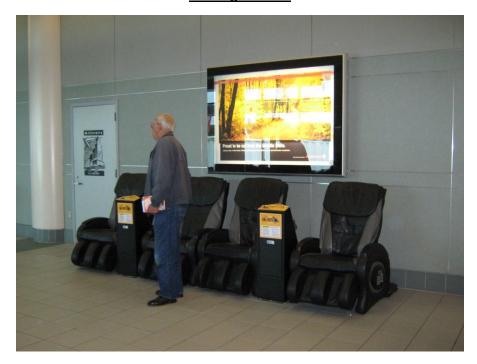
Hudson News Near Gates 1-4



Game Room



Massage Chairs



J-9 CONCESSION PERFORMANCE METRICS

There are a number of metrics that can be considered to quantify concession performance and productivity. These are shown in **Table J-2**.

TABLE J-2 CONCESSION ANALYSIS EVALUATION METRICS

Effective Percentage Rent	Sales divided by rent received by the Airport. A high effective percentage rent suggests a contract advantageous to the Airport. Higher rents often occur in concession contracts without pricing controls, in older contracts that have been renewed, or in very long-term deals. Generally, higher effective percentage rents occur in contracts where a single entity operates all or most of the concession locations.
Sales per Square Foot	A measurement of the effective use of concession space. A high sales per square foot may imply that the airport is "underconcessioned" (that is, does not have enough concession space to adequately serve potential demand) and, as a result, may be underperforming due to a lack of product availability or variety. A low sales per square foot metric suggests that there may be too much concession space, the concession space is poorly placed to capture the available customers, or the products offered do not meet the needs/desires of the customers.
Sales per Enplaned Passenger	Sales productivity measurement that indicates how well the product offering is meeting the needs/desires of the customers. Low sales per enplaned passenger may indicate poor quality concessions, a lack of choice, poor customer service, or pricing issues. Higher sales per enplaned passenger suggest a concessions program that is successfully addressing customer needs.
Revenue per Enplaned Passenger	A measurement of the value of each passenger's purchases to the airport's income. Low revenues per enplaned passenger, if paired with low sales per enplaned passenger, tend to indicate operational issues (low sales, poorly performing concessions, and/or a lack of concession options (failure to meet customer needs)). If sales per enplaned passenger are high and revenue per enplaned passenger is low, it is likely a structural issue (concessions contracts that pay below-average revenue, an accounting issue, or reporting problems).
Square Feet per 1,000 Enplaned Passengers	A measurement of the amount of concession space relative to the number of potential customers. High ratios tend to indicate over-built concessions, or, in one airport case, including large amounts of support space in the allocated concession space. Low ratios suggest that there is not enough concession space allocated, which may result in missed sales and revenue generation opportunities.

Source: McFarland Johnson Analysis