Appendix 4.1-C

Intersection Inventory Data Sheets

	Computations ★ unaignalized		Project: Location:	scr Easton	;	Project # Sheet	10111.00 of 1 9-17-08 Nashing tû	
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Computations pictures II: 16-24

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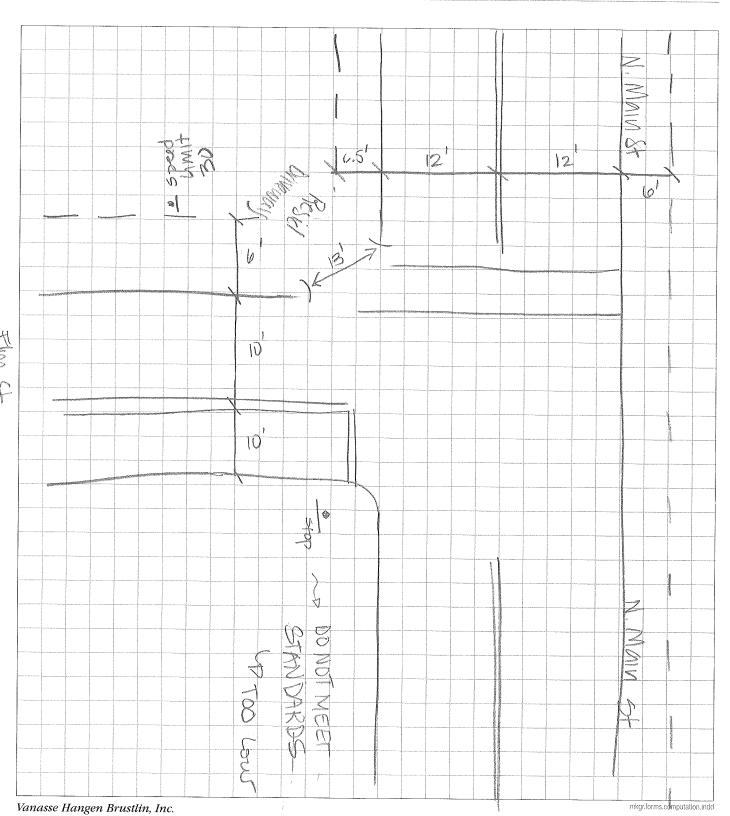
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Project: SCR Project # 10/11.00Location: Easton Sheet I of ICalculated by: Date: 9-17-08

Checked by:

Date:

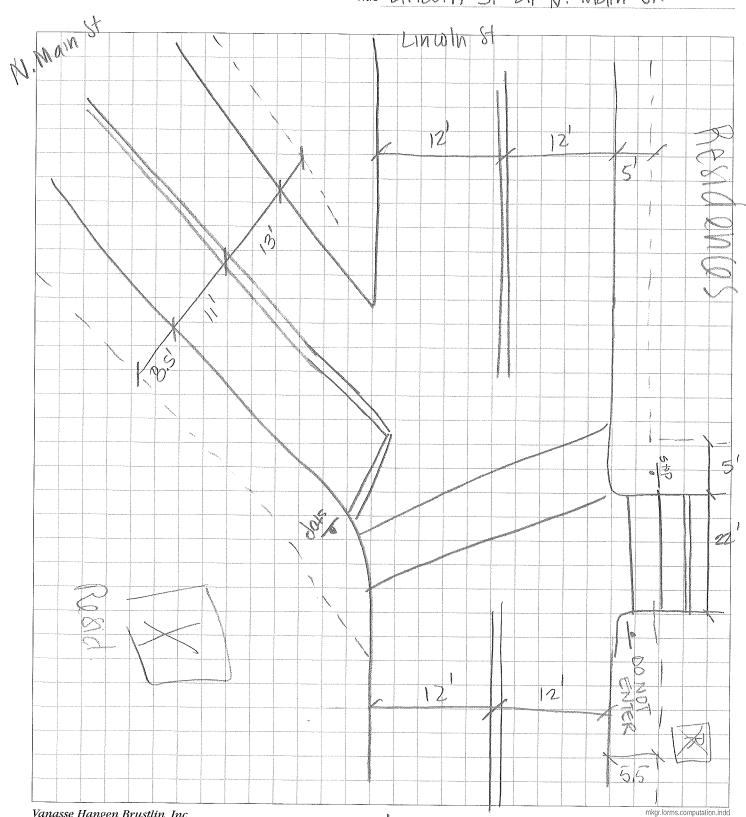
Title Elm St at N. Main St



VHB Computations pertures II: 25-34 & unsig

Project: SCR Project # 10111.00Location: Faston Sheet $1 ext{ of } 1$ Calculated by: NL Date: 9-17-08Date: Checked by:

Title Lincoln St at N. Main St.



Vanasse Hangen Brustlin, Inc.

Lincoln St

Computations

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Project: SCR

Location: EGSTON Project # 10(11.00)Sheet 1 of 1 Date: 9-17-08Calculated by: Title LINWIN/MAIN St at Center St Linwin St Checked by: Speed 13 161 20 7 105 TO 25 0 DW 12 Vanasse Hangen Brystlin, Inc. mkgr.forms.computation.indd Lincoln St

VIIB Computations PICT Cd I: 57 - LA

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Vanasse Hangen Brustlin, Inc.

Rec 138 Wash st

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VIIB Computations PICT ed J: 65-78 * signalized int.

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approach Project: SCR 10111.00 Project # Location: Easton, MA Sheet Calculated by: NL 9-29-09 Date: Checked by: #5 Title Rte 138/Washington St & Roche Bros. Way (L) lane ends MERCIE MERCIE mad narrows to 1 in 12 Pigh lane sideuralle 4(1) Boche Bros, Way 20 stone nedge Village 12' mulch/median 24 >(1) Banknorth 12 121 · SOUTH short lane 1138 road narrows to (1) lane Merge done ends 1 mkgr.forms.computation.indd Vanasse Hangen Brustlin, Inc. of think o

VHB Computations pcf td I 1-15 * signalized int * stop bar at EBapp 1= set tooclose to int Project: SCR Project # 10 /// .00 Location: Easton, MA

Calculated by: XL of / Sheet 9-29-08 Calculated by: Date: Checked by: Date: #4 Title Rtc 138/Washington St @ Main St Daley Corner) 10.5 10.5/12 NOUSY3 N a4' Liuo BROCKTON 500 PH 33015 NIVW 138 21.5 11.5 12 22 10 MAIN STREET DW=34 N. EASTON 8E11 = DIVIV MAINST BROCKTON oto prode o 51 11.5 11.5 mkgr.forms.computation.indd Vanasse Hangen Brustlin, Inc.

VIIB Computations plet ed II: 16-33 Project: SCR Project # 10/1/100N * Signalized int A * median width = 3'-11' Location: Easton, MA NL Calculated by: Checked by: #3 Title Rte 138/washing ton St @ Rte 123/Belmont St (Morse Corner) ROUK BB Speed NORTH 9 Road Namous 6'1 21 5 (1)-> 20.5 #2: WEST SDUTH 123 138 NORTON TAUNTON 138 NOITH STOUGHTON + П #1: Lefflane 123 East for lefthorn BrockTON 851 HIROS ABINGTON mkgr.forms.computation.indd Vanasse Hangen Brustlin, Inc.



Vanasse Hangen Brustlin, Inc.

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	Checked by:	Date:
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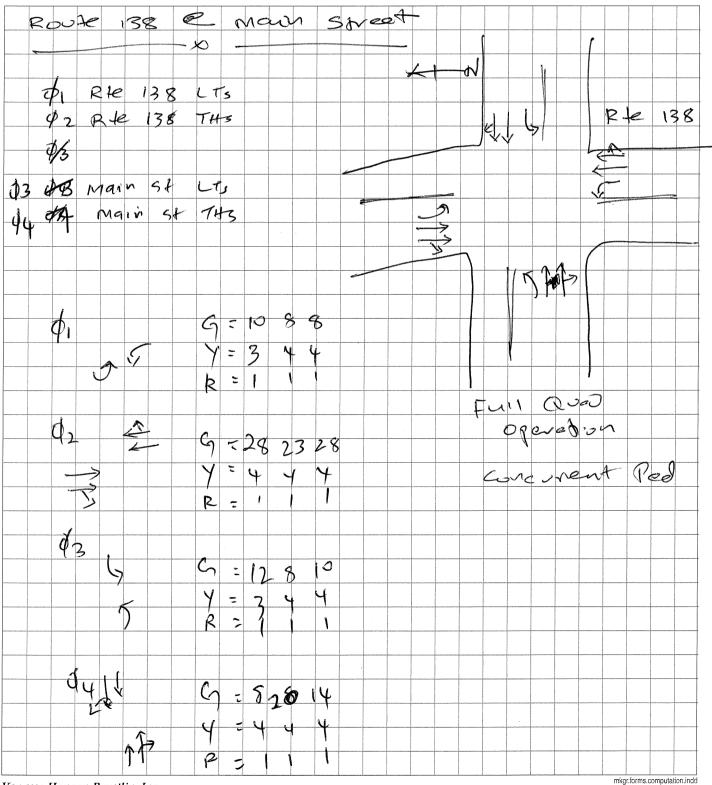
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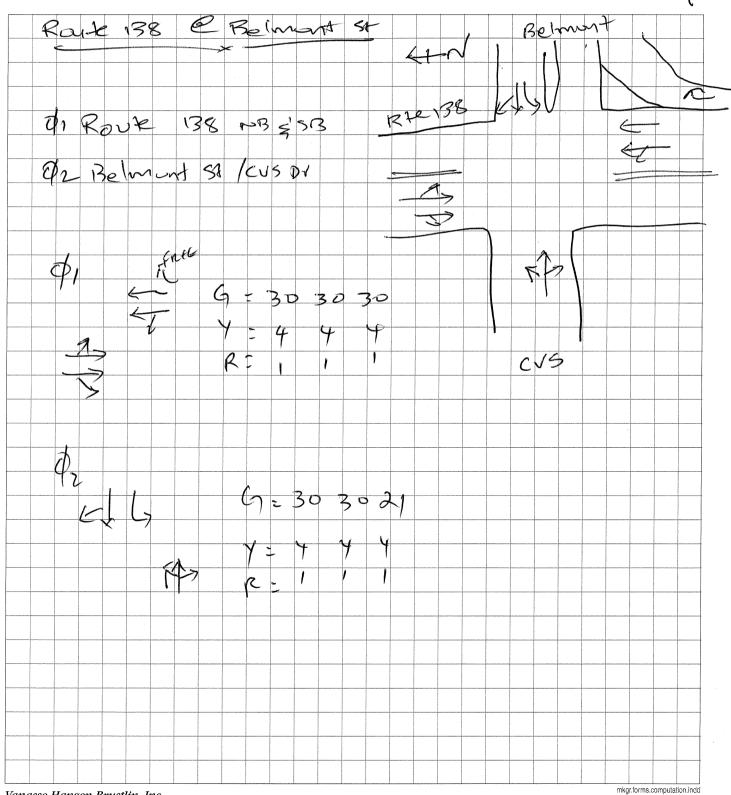


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Title Signal Time	my of Messing





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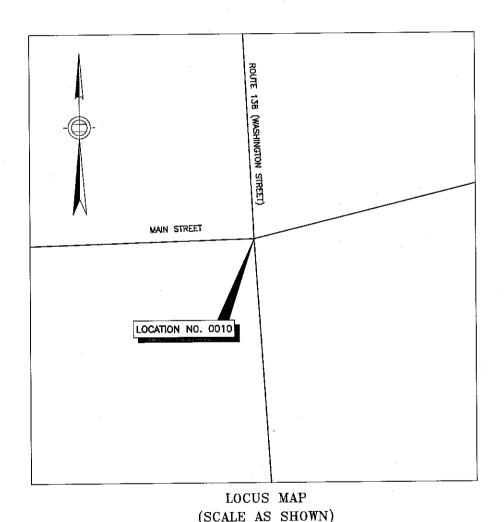


THE COMMONWEALTH OF MASSACHUSETTS MASSACHUSETTS HIGHWAY DEPARTMENT

TRAFFIC SIGNAL LAYOUT PLAN AND PERMIT RTE. 138 AT MAIN STREET (DAILEY'S CNR.)

IN THE TOWN OF

EASTON
BRISTOL COUNTY



Under authority of Chapter 89, Sec. 8 General Laws, Tercentenary Edition, the Massachusetts Highway Department hereby approves the following described traffic control signal installation, and auxiliary signs and surface markings, for the above location, provided that a permit for the opening of the road and the placing of structures thereon shall be received from the board or officer in charge of the road.

This permit is granted for the specific signal installation

This permit is granted for the specific signal installation described herein and for its operation in accordance with the conditions set forth below and with the requirements of the Massachusetts Highway Department. The details far any material alterations or any continueds or substantial departure from the provisions of this permit must be submitted to the department for approval with data sufficient to justify such modification. Failure to comply with these requirements automatically voids this permit during such time as non-compliance exists.

I. STANDARDS OF INSTALLATION

The traffic control signal installation and all auxiliary signs and surface markings which are used in connection with such installation shall conform with the requirements of the Massachusetts Highway Department and with the sketch which is attached.

II. OPERATION OF SIGNALS

(a) Type of control:
AUTOMATIC
(b) Coordination:
NONE
(c) Special connection:
OPTICOM
(d) Timing for automatic operation:
Signols may be operated automatically for a shorter period of time but not for a greater length of time than is here indicated except when unusual conditions arise which temporarily justify longer operation.

(f) Flashing Operation: Whenever a signal is not operating

(f) Flashing Operation: Whenever a signal is not operating as a control device (stop and go), it must Flash Yellow or Flash Red as set forth in the signal sequence and at the rate of 50-60 flashes per minute unless otherwise specified in Part II(e) of this Permit.

(g) Manual Operation: Signals may be operated manually at any time irrespective of the hours designated in Part II(3) of this permit

(h) Discontinuonce: Signals may be discontinued at any time.
When this is done signal faces must be turned away from
traffic, taken down or hooded, and the District Highway
Engineer notified

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0 200 400 800

REVISION NO 01 DATE: 11-26-01	
INSERT BY: J.C.CONNOR	COMMENTS:
DATE:	

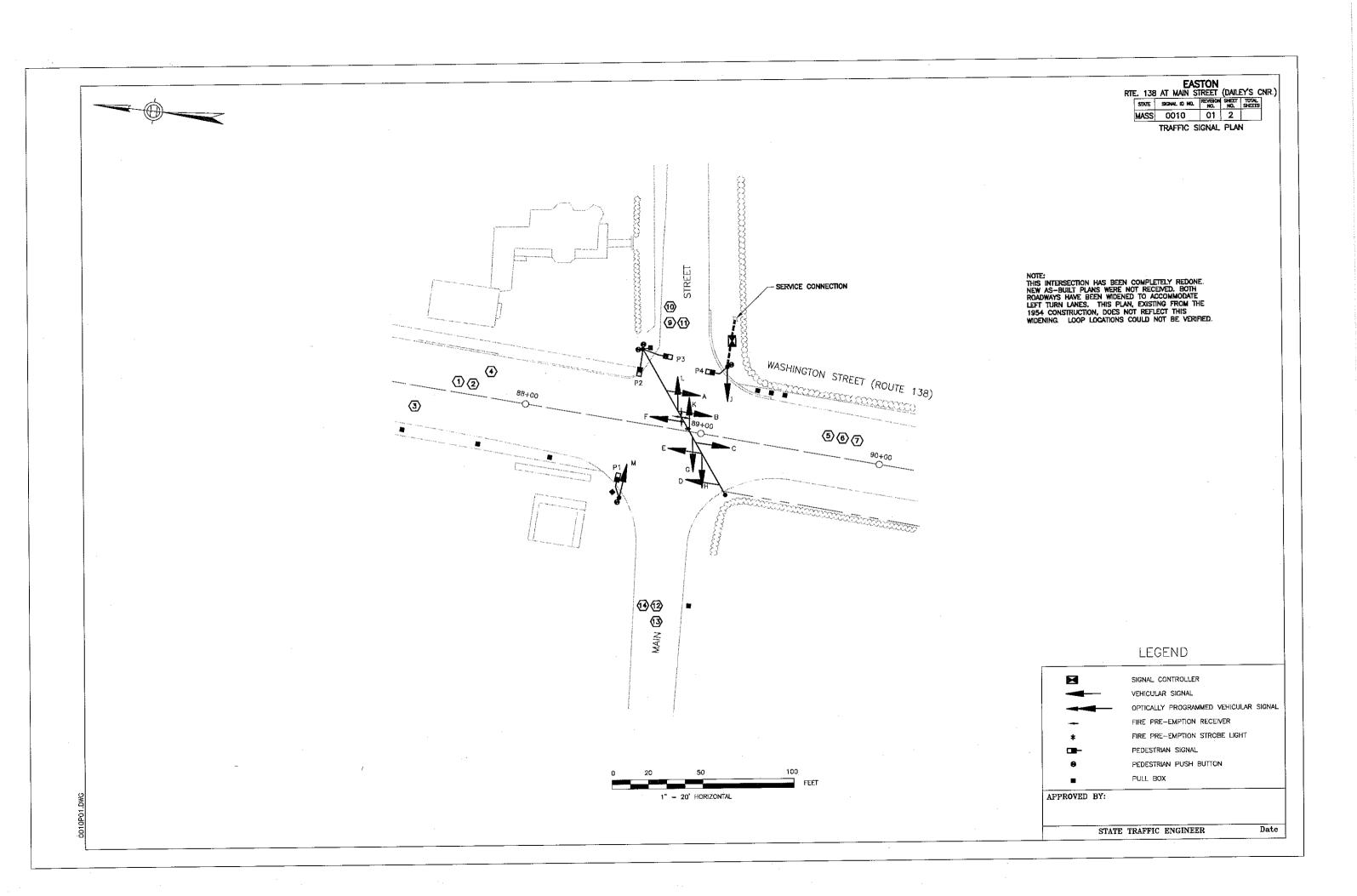
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10 PARK PLAZA BOSTON, MA 02116 MASSACHUSETTS HIGHWAY DEPARTMENT

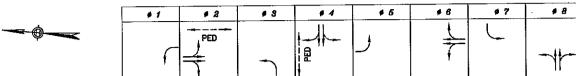
APPROVED BY:

STATE TRAFFIC ENGINEER

Date



APPROX NORTH



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IAIN STREET	WB	K	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	GL R	YL R	R	R	R	R	FR
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QUANTITY	ITEM
1	CONTROLLER TYPE 8DW, CAB. & FDN.
1	SERVICE CONNECTION (OVERHEAD)
2	10' SIGNAL POLE, BASE, & FDN.
4	1 WAY, 3 SECTION SIGNAL HOUSING (12" LENS)
4	1 WAY, 5 SECTION SIGNAL HOUSING (12" LENS)
	2 WAY, 3 SECTION SIGNAL HOUSING (12" LENS)
4	PEDESTRIAN HOUSING
4	PEDESTRIAN PUSH BUTTON, SIGN & SADDLES
4	OPTICOM RECIEVERS
2	OPTICOM 4 CHANNEL PHASE SELECTOR
1	OPTICOM STROBE LIGHT
12	LOOP DETECTOR AMPLIFIER (DUAL CHANNEL)
13±	12" x 12" PULL BOX
	Necessary duct, cable, labor, miscellaneous
	material and equipment to complete the installation

EASTON
RTE. 138 AT MAIN STREET (DAILEY'S CNR.)
STATE SIGNAL ID NO. REVISION SPEET TOTAL
NO. SPEETS
MASS 0010 01 3 TRAFFIC SIGNAL DATA

NOTES:

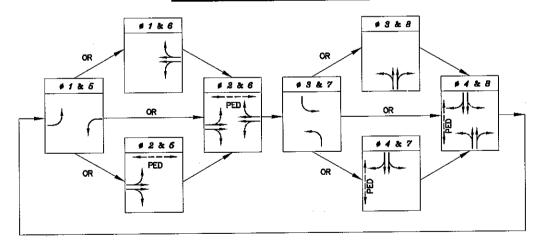
NEMA DUAL RING PHASING NOTES:

- 1. PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.
- 2. PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
- 3. THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
- 4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

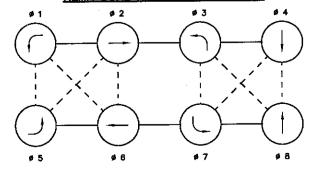
LOOP DETECTOR NOTES:

- SEE LOOP DETECTOR DETAIL SHEET FROM DESIGN DOCUMENT FOR SPLICE PATTERN AND OTHER INFORMATION.
- 2. DELAY AND EXTENSION TIMES ARE IN SECONDS.
- DELAY TIME SHALL BE EFFECTIVE ONLY DURING THE RED PORTION OF THE PHASE THAT IS CALLED BY THE DETECTOR.
- 4. LOOP DETECTORS WERE NOT VISIBLE IN THE PAVEMENT SURFACE DURING INVENTORY.

PREFERENTIAL PHASING SEQUENCE



NEMA DUAL RING PHASING NOTES:



LOOP DETECTOR DATA

DETECTOR NUMBER	NUMBER OF SEGMENTS	LOOP SIZE	NUM. OF TURNS	CALLED	Ø EXT.	MODE PULSE PRESENCE	DELAY TIME	EXT. TIME
0				ø 2	ø2	PRESENCE		
2		- -		#2	ø2	PRESENCE		
3				ø 2	ø 2	PRESENCE		
④				ø5	ø 5	PRESENCE		
(5)				ø6	96	PRESENCE		
6				ø6	# 6	PRESENCE		
Ø				ø6	# 6	PRESENCE		
(8)				61	ø1	PRESENCE		
9				#4	94	PRESENCE		
10				#4	ø4	PRESENCE		
Û				ø 7	ø7	PRESENCE		
(2)				ø8	ø8	PRESENCE		
(3)				#8	ø8	PRESENCE		
19				ø3	ø3	PRESENCE		

SIGNAL IDENTIFICATION

2: INCANDESCENT 3: FIBEROPTIC 1: LED

> A,B,D,E H,J,L,M

12" FIBEROPTIC

CONTROLLER MAKE & MODEL: PEEK 3000 SERIES
UTILITY POLE No. E.E. CO. BR. \$32
METER No. 17-595-194
EMERGENCY PRE-EMPTION (TYPE): OPTICOM

APPROVED BY:

STATE TRAFFIC ENGINEER

Date

EASTON
RTE 138 (WASHINGTON ST) AT RTE. 123 (BELMONT ST) STATE SIGNAL ID NO. REVISION SKEET TOTAL NO. NO. SKEETS

MASS 0024 01 1

TITLE SHEET

THE COMMONWEALTH OF MASSACHUSETTS MASSACHUSETTS HIGHWAY DEPARTMENT

TRAFFIC SIGNAL LAYOUT PLAN AND PERMIT RTE. 138 (WASHINGTON ST) AT RTE. 123 (BELMONT ST)

IN THE TOWN OF

EASTON BRISTOL COUNTY

Under authority of Chapter 89, Sec. 8 General Laws, Tercentenary Edition, the Massachusetts Highway Department hereby approves the following described traffic control signal installation, and auxiliary signs and surface markings, for the above location, provided that a permit for the opening of the road and the placing of structures thereon shall be received from the board or officer in

This permit is granted for the specific signal installation described herein and for its operation in accordance with the conditions set forth below and with the requirements of the Massachusetts Highway Department. The details for any material alterations or any continueds or substantial departure from the provisions of this permit must be submitted to the department for approval with data sufficient to justify such modification. Failure to comply with these requirements automatically voids this permit during such time as non-compliance exists.

I STANDARDS OF INSTALLATION

The traffic control signal installation and all auxiliary signs and surface markings which are used in connection with such installation shall conform with the requirements of the Massachusetts Highway Department and with the sketch which is attached.

II OPERATION OF SIGNALS

(a) Type of control: (b) Coordination: AUTOMATIC Special connection: NONE Timing for automatic operation: SEE SHEET NO. 3 (e) Hours for Automatic Operation: SEE SHEET NO. 3

(e) Hours for Automatic Operation: CONTINUOUS

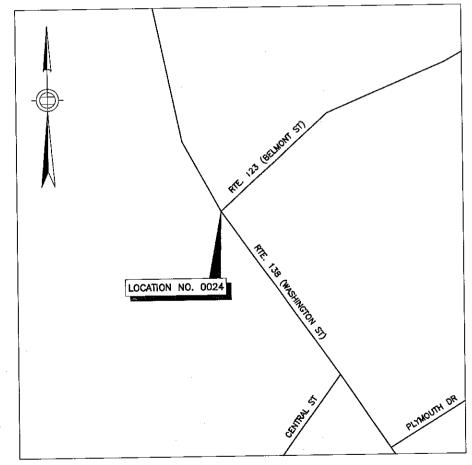
Signals may be operated automatically for a shorter period of time but not for a greater length of time than is here indicated except when unusual conditions arise which temporarily justify longer operation.

(f) Floshing Operation: Whenever a signal is not account.

(f) Flashing Operation: Whenever a signal is not operating as a control device (stop and go), it must Flash Yellow or Flash Red as set forth in the signal sequence and at the rate of 50-60 flashes per minute unless otherwise specified in Part II(e) of this Permit.

(g) Manual Operation: Signals may be operated manually at any time irrespective of the hours designated in Part 11(3) of this permit

(h) Discontinuance: Signals may be discontinued at any time. When this is done signal faces must be turned away from traffic, taken down or hooded, and the District Highway Engineer notified



LOCUS MAP (SCALE AS SHOWN)

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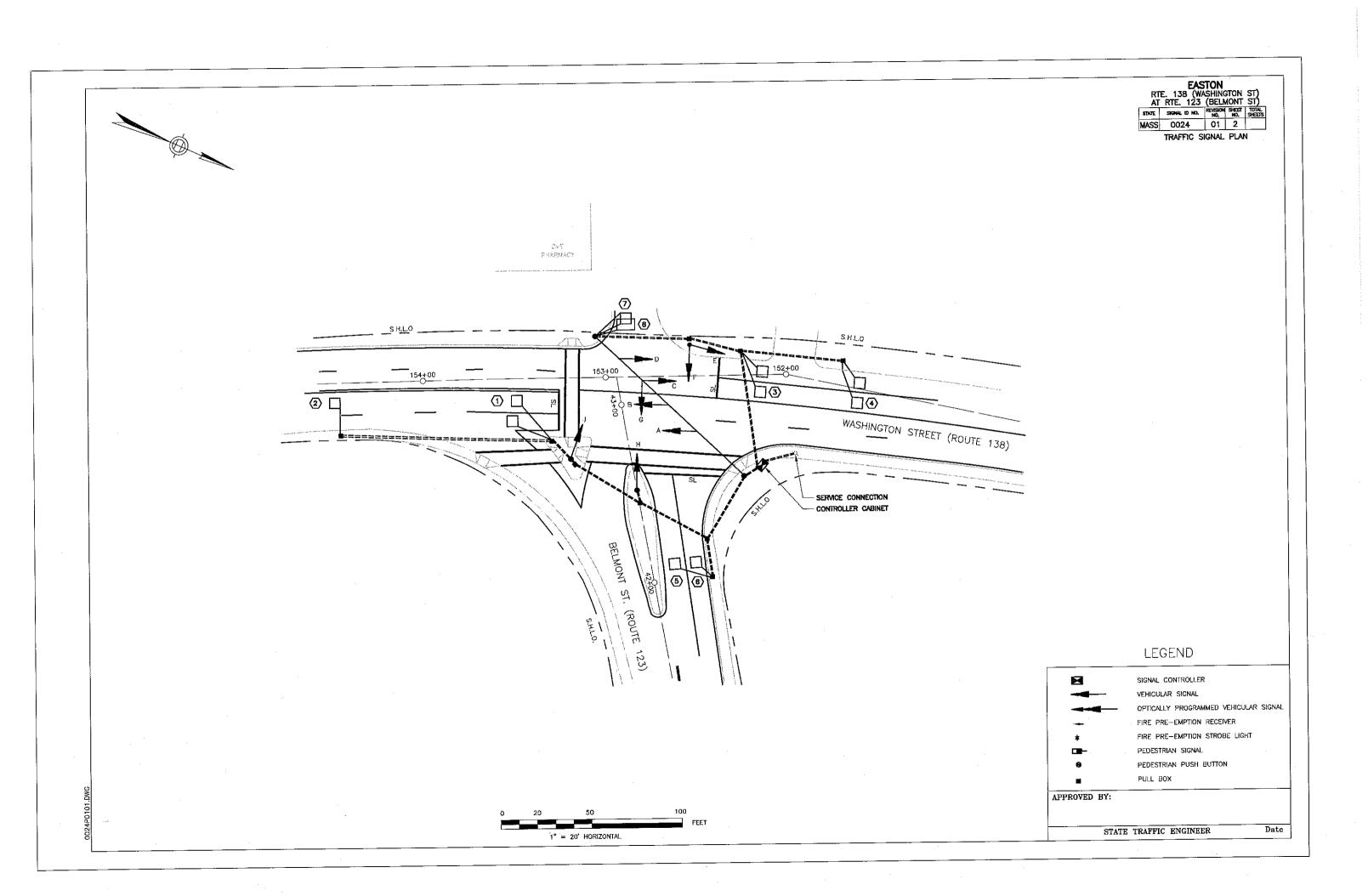
REVISION NO. 01	
DATE: 11-27-01	
INSERT BY: J.C.CONNOR	COMMENTS:
DATE:	
FILE NAME: 0024TO1.DWG	

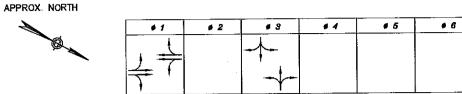
10 PARK PLAZA BOSTON, MA 02116

MASSACHUSETTS HIGHWAY DEPARTMENT

APPROVED BY:

STATE TRAFFIC ENGINEER





7

8

STREET	DIRECTION	BOUSINGS	1	2	3	1	5	8	7	8	9	2	#	12	13	#	15	16	17	18	19	20	21	28	23	24	be it
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WASHINGTON ST (ROUTE 138)	SB	C,D,E	G	Υ	R			П	R	R	Ŕ															ļ	FY
SELMONT ST (ROUTE 123)	WB	F,G	R	R	R				G	Y	R							Ш									FR
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RECALL				EXT		1			Į	OFF											Ь.			_		-	

QUANTITY	ITEM
1	CONTROLLER TYPE 4W, CAB. & FDN.
<u> </u>	SERVICE CONNECTION (OVERHEAD)
	SPANWIRE ASSEMBLY BASE & FDN.
3.	10' SIGNAL POLE, BASE, & FDN.
5	1 WAY, 3 SECTION, SIGNAL HOUSING (12" LENS)
2	2 WAY, 3 SECTION SIGNAL HOUSING (12" LENS)
4	LOOP DETECTOR AMPLIFIER (DUAL CHANNEL)
11	ROADWAY LOOP DETECTOR
9	12" x 12" PULL BOX
	<u> </u>
	<u> </u>
	Maria and the same and and the same
	Necessary duct, cable, labor, miscellaneous material and equipment to complete the installation

NOTES:

SEQUENCE AND TIMING NOTES:

1. #2, #4, #5, #6, #7 AND #8 NOT USED.

NEMA DUAL RING PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.

FASTON
RTE. 138 (WASHINGTON ST)
AT RTE. 123 (BELMONT ST)
STATE SIGNAL ID NO. REVISION SHEET TOTAL
MASS 0024 01 3

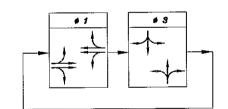
TRAFFIC SIGNAL DATA

- 2. PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
- 3. THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
- 4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

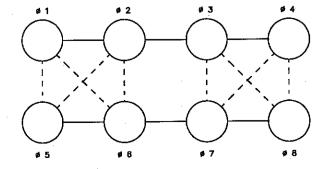
LOOP DETECTOR NOTES:

- SEE LOOP DETECTOR DETAIL SHEET FROM DESIGN DOCUMENT FOR SPLICE PATTERN AND OTHER INFORMATION.
- 2. DELAY AND EXTENSION TIMES ARE IN SECONDS.
- 3. DELAY TIME SHALL BE EFFECTIVE ONLY DURING THE RED PORTION OF THE PHASE THAT IS CALLED BY THE DETECTOR.
- 4. LOOP DETECTORS WERE NOT VISIBLE DURING SIGNAL INVENTORY.

PREFERENTIAL PHASING SEQUENCE



NEMA DUAL RING PHASING NOTES:



LOOP DETECTOR DATA

DETECTOR NUMBER	NUMBER OF SEGMENTS	LOOP SIZE	NUM. OF TURNS	CALLED	ø EXT.	MODE PULSE PRESENCE	DELAY TIME	EXT. TIME
1	2	6'X6'		ø1 _.	ø1	PRESENCE		
2	1	6'X6'		ø1	ø 1	PRESENCE		
3	2	6,X6,		ø1	ø1	PRESENCE		
4	2	6,X6,		ø1	ø1	PRESENCE		
(5)	1	6,X6,		ø 2	ø2	PRESENCE		
(6)	1	6'X6'		ø 2	ø2	PRESENCE		
⑦	1	6'X6'		ø2	ø 2	PRESENCE		
8	1	6'X10'		ø2	ø 2	PRESENCE		

SIGNAL IDENTIFICATION

1: LED 2: INCANDESCENT 3: FIBEROPTIC



CONTROLLER MAKE & MODEL: CF	ROUSE-HINDS (PIN)
HITHITY POLE No. NET&T CO. / B.	E. CO. #127	
MFTFR No. 11-819-138		
EMERGENCY PRE-EMPTION (TYPE)	: NONE	

APPROVED BY:

STATE TRAFFIC ENGINEER

Date

THE COMMONWEALTH OF MASSACHUSETTS MASSACHUSETTS HIGHWAY DEPARTMENT

Company of the control of the con

TRAFFIC SIGNAL LAYOUT PLAN AND PERMIT
WASHINGTON STREET (ROUTE 138) AT ROCHE BROTHERS DRIVEWAY

IN THE TOWN OF

EASTON BRISTOL COUNTY

Under authority of Chapter 89, Sec. 8 General Laws, Tercentenary Edition, the Massachusetts Highway Department hereby approves the following described traffic control signal installation, and auxiliary signs and surface markings, for the above location, provided that a permit for the opening of the road and the placing of structures thereon shall be received from the board or officer in charge of the road.

This permit is granted for the specific signal installation described herein and for its operation in accordance with the conditions set forth below and with the requirements of the Massachusetts Highway Department. The details for any material alterations or any continued or substantial departure from the provisions of this permit must be submitted to the department for approval with data sufficient to justify such modification. Failure to comply with these requirements automatically valds this permit during such time as non-compliance exists.

I STANDARDS OF INSTALLATION

The traffic control signal installation and all auxiliary signs and surface markings which are used in connection with such installation shall conform with the requirements of the Massachusetts Highway Department and with the sketch which is attached.

II OPERATION OF SIGNALS

(a) Type of control:
AUTOMATIC
(b) Coordination:
NONE
(c) Special connection:
NONE
(d) Timing for automatic operation:
SEE SHEET NO 3
(e) Hours for Automatic Operation:
CONTINUOUS
Signale may be operated automatically for a shorter period of time but not for a greater length of time than is here indicated except when unusual conditions arise which

temporarily justify longer operation.

(f) Flashing Operation: Whenever a signal is not operating as a control device (stop and go), it must Flash Yellow or Flash Red as set forth in the signal sequence and at the rate of 50-60 flashes per minute unless otherwise specified in Part II(e) of this Permit.

(g) Manual Operation: Signals may be operated manually at any time irrespective of the hours designated in Part II(3) of this permit

(h) Discontinuance: Signals may be discontinued at any time. When this is done signal faces must be turned away from traffic, taken down or hooded, and the District Highway Engineer notified.

COBBLESTON TO BE ROCK MEROON MILLER RD	CALUM RO MARSHALL RD MARSHALL LN MARSHALL LN
	OCIIS MAP

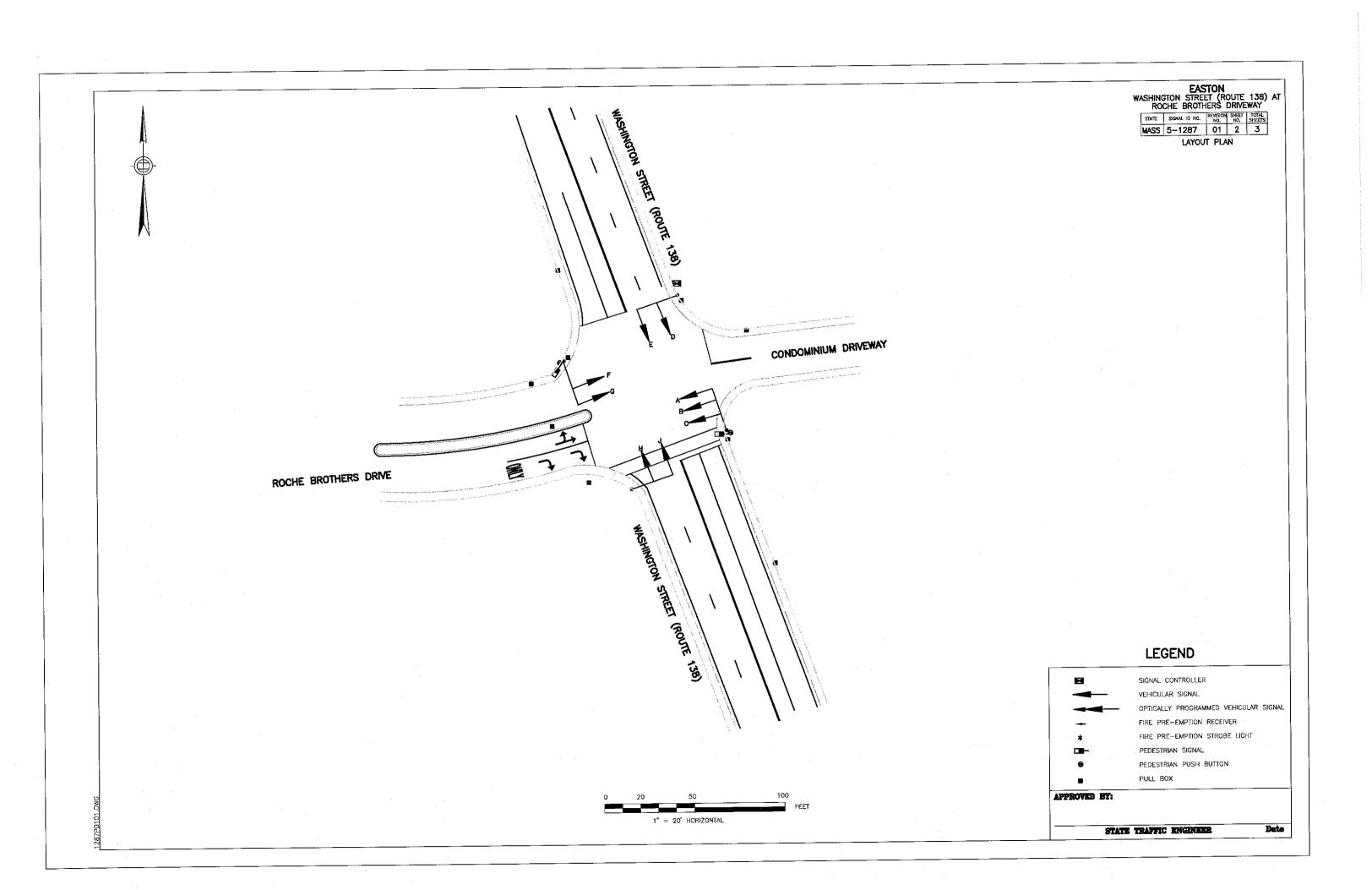
LOCUS MAP
(SCALE AS SHOWN)

0 400 800 160		HOR	SCALE I	IN FEET	
	0	400	800		160

REVISION NO 01		
DATE: 12-22-2006		
INSERT BY: BG	COMMENTS:	
DATE:		
FILE NAME: 1287T0101,DWG		
	,	

HIGHWAY	•
10 PARK PLAZA BOSTON, MA 02116	
MASSACHUSETTS	
HIGHWAY DEPARTMENT	
APPROVED HY:	
STATE TRAFFIC ENGINEER	Date

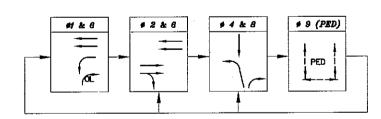
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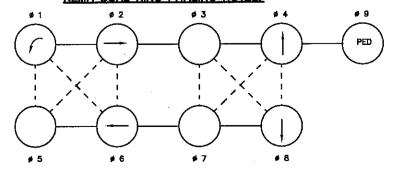
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VASHINGTON ST (ROUTE 138)	EB-RT		_	R/YR		R	R	R	R	R	R	GR	YR	R	R	R	R	R	R	R	R	Ŕ	R	R	R	R	F
OCHE BROTHERS			_	R	R	R	R	R	R	R	R	G	\ \	R	R	R	R	R	R	R	R	R	R	R	R	R	F
OCHE BROTHERS	EB	A,B	R		-	-	_	R	R	R	R	R	R	R	R	R	R	R			G	Ŷ	R	R	R	R	F
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MAXIMUM 2			14			50					T	20				l		50			20						Ş
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PREFERENTIAL PHASING SEQUENCE



NEMA DUAL RING PHASING NOTES:



		L	OOP D	ETECTO	R	DATA		
DETECTOR NUMBER	NUNBER OF SEGMENTS	LOOP	NUM. OF TURNS	CALLED	рфт.	MODE PULSE PRESENCE	DELAY TIME	EXT. TIME
0	х	ж	<u> </u>	#8	#8	PRESENCE	0	0
2	х	ж		#8	#6	PRESENCE	0	0
3	×	xx		#6	#8	PRESENCE	0	0
•	×	ж		#1	ø 1	PRESENCE	0	0
(8)	×	xx		#2	#2	PRESENCE	0	0
(6)	x	xx		#2	#2	PRESENCE	0	0
Ø	х	ж		#2	#2	PRESENCE	0	0
8	x	ж		#8	#8	PRESENCE	0	0
(9)	x	, xx		#4	64	PRESENCE	6	0
.00	x	χх		64	64	PRESENCE	8	0
Ð	х	χχ		#1	#1	PRESENCE	6	0
1	х	хх		#6	ø8	PRESENCE	в	0
€3	х	хα		#2	#2	PRESENCE	0	0
€	х	ж		#2	#2	PRESENCE	0 .	٥
69	x	ХХ						
€8	х	XX		#4	64	PRESENCE	0	0
Ø	х	ж		#4	64	PRESENCE	0	0

EASTON
WASHINGTON STREET (ROUTE 138) AT ROCHE BROTHERS

STATE	SIGNAL ID NO.	REVISION NO.	SHEET NO.	TOTAL SHEETS
MASS	1287	01	3	3
	TRAFFIC S	IGNAL	DATA	4

NOTES:

SECUENCE AND TIMING NOTES:

- 1. #3, AND #7 NOT USED.
- 2. EXCLUSIVE PEDESTRIAN TO BE ACTIVATED ONLY BY PEDESTRIAN ACTUATED PUSH BUTTON.

NEMA DUAL RING PHASING NOTES:

- 1. PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.
- 2 PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY...
- 3. THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
- 4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

LOOP DETECTOR NOTES:

- SEE LOOP DETECTOR DETAIL SHEET FROM DESIGN DOCUMENT FOR SPLICE PATTERN AND OTHER INFORMATION.
- 2. DELAY AND EXTENSION TIMES ARE IN SECONDS.
- 3. DELAY TIME SHALL BE EFFECTIVE ONLY DURING THE RED PORTION OF THE PHASE THAT IS CALLED BY THE DETECTOR.

SIGNAL IDENTIFICATION NOTES:

- 1. ALL SIGNAL HEADS DO HAVE 5" LOUVERED BACKPLATES
- 2. ALL RED SIGNAL LENSES SHALL BE 12" DIA.
- 3. ALL SIGNAL HEADS TO BE FIXED-MOUNTED. FIELD NOTE:
- 1. LOOP DETECTORS WERE NOT VISIBLE.

SIGNAL IDENTIFICATION

MAJOR ITEMS REQUIRED

1 CONTROLLER TYPE 8DW, CAB. & FDN.

SPANWIRE ASSEMBLY BASE & FON. 8' SIGNAL POLE, BASE, & FDN. 10' SIGNAL POLE, BASE, & FDN.

MAST ARM ASSEMBLY, BASE, & FDN.

1 WAY, 3 SECTION, SIGNAL HOUSING (12" LENS)

2 1 WAY, 5 SECTION SIGNAL HOUSING (12" LENS) 2 WAY, 3 SECTION SIGNAL HOUSING (12" LENS)

2 PEDESTRIAN PUSH BUTTON, SIGN, & SADDLES
9 LOOP DETECTOR AMPLIFIER
XX ROADWAY LOOP DETECTOR
9 12" x 12" PULL BXX

OPTICOM DUAL CHANNEL PHASE SELECTOR

Necessary duct, cable, labor, miscellaneous

material and equipment to complete the installation.

SERVICE CONNECTION

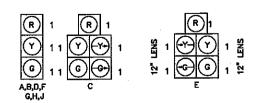
PEDESTRIAN HOUSING

MAGNETIC DETECTOR MAGNETOMETER MAGNETIC AMPLIFIER OPTICOM RECEIVERS

OPTICOM STROBE LIGHT

QUANTITY

2: INCANDESCENT 3: FIBEROPTIC



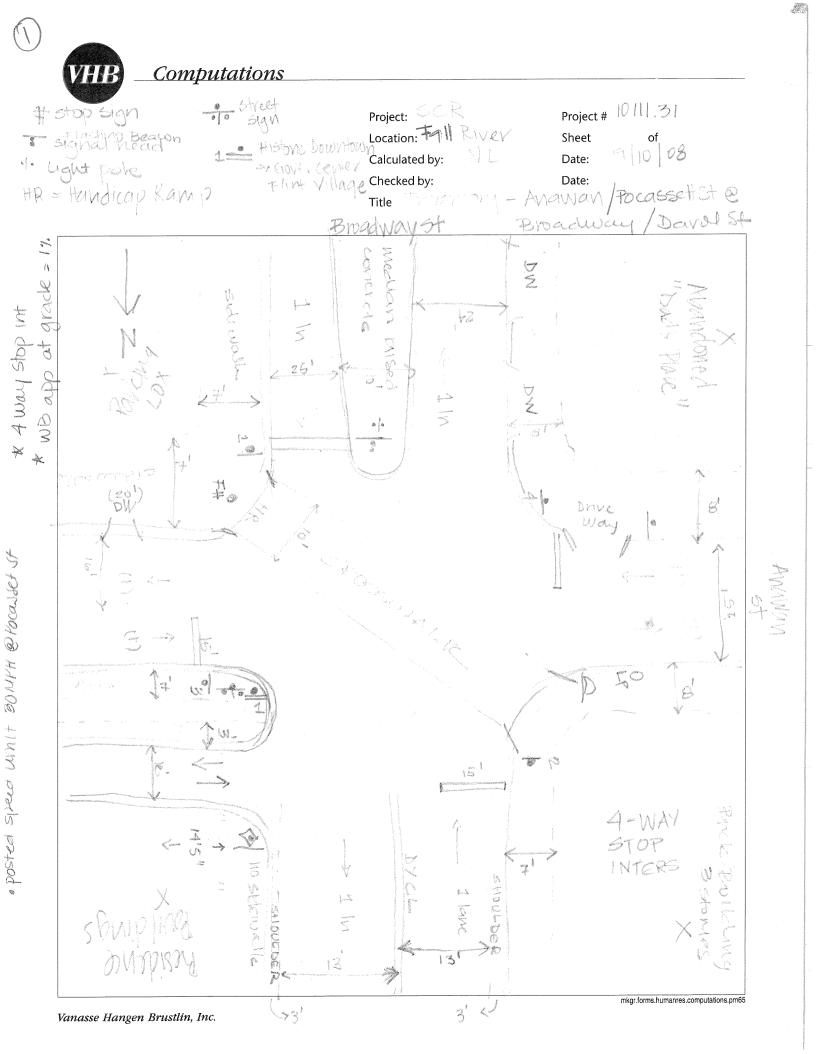
ONE SECTION DUAL DISPLAY 12" LED/FIBER OPTIC ALL

CONTROL	LER MAKE & MODEL:	EPAC 300
ו אדעודט	POLE No. VERIZON 5	
METER N	lo.	
EMERGEN	io. NCY PRE-EMPTION (TY	PE): NONE

APPROVED BY:

STATE TRAFFIC ENGINEER

Date







Computations

Stop signs # Stop signs # Interstate signs

pavem. cond = fair x-walks-> brick pavers

1011 31 Project: Location:

Fall River

Project # Sheet

SCR of

mkgr.forms.humanres.computations.pm65

Calculated by:

NL

9/10/08 Date:

Checked by:

Date:

Title WV.

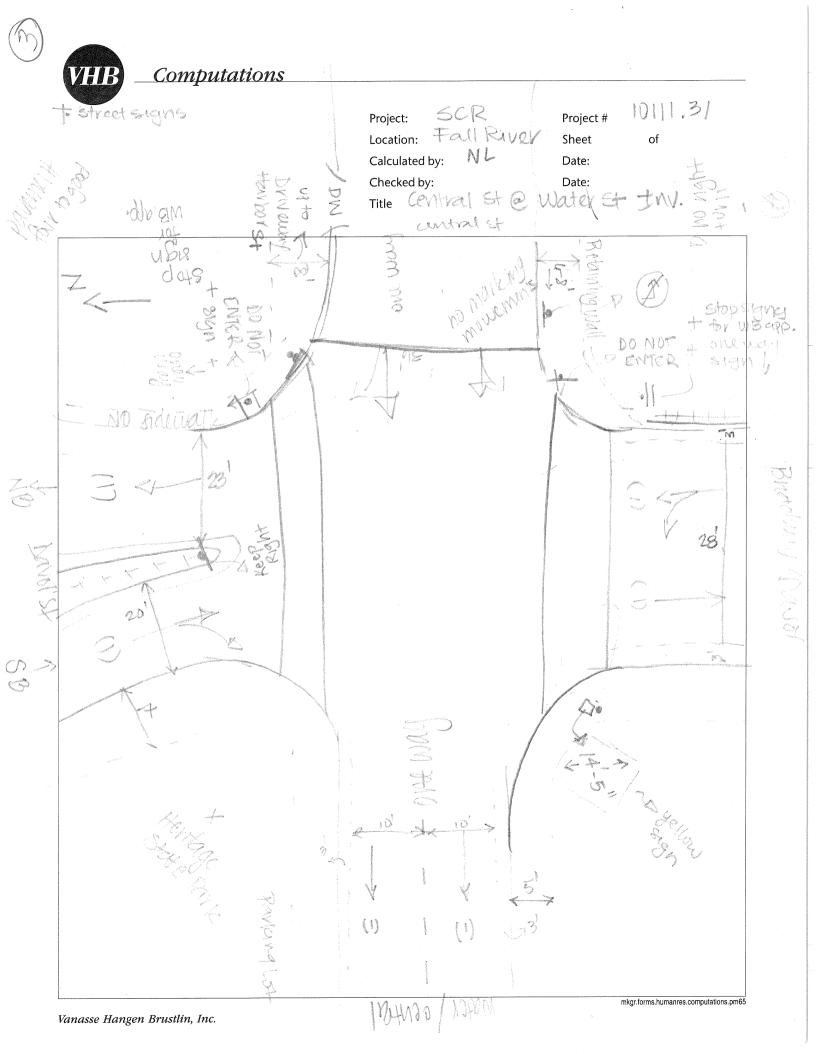
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Whiter st

Water St (0) Seld ALMW X びかりいのとろう 2 X WALK 19

Vanasse Hangen Brustlin, Inc.

WARY St

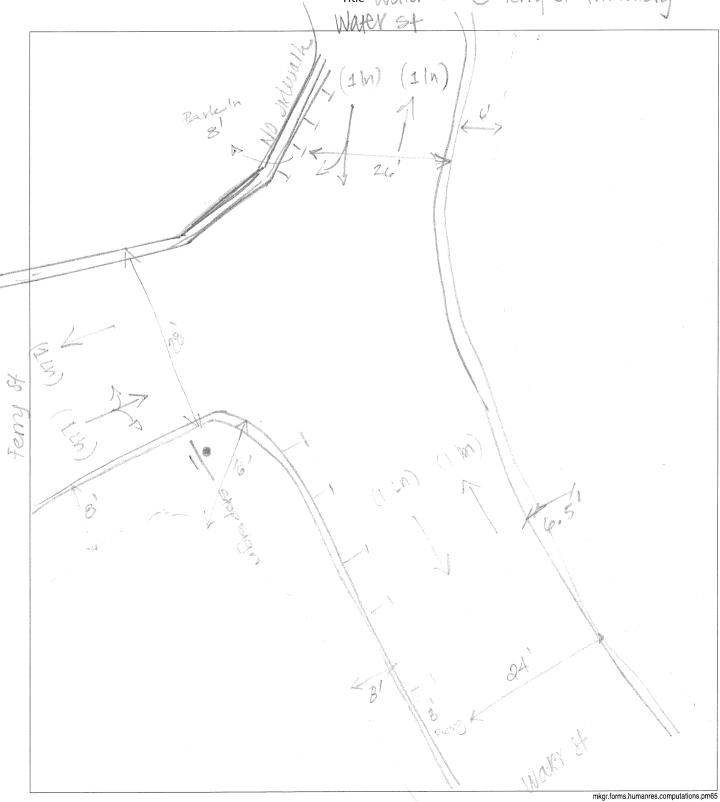






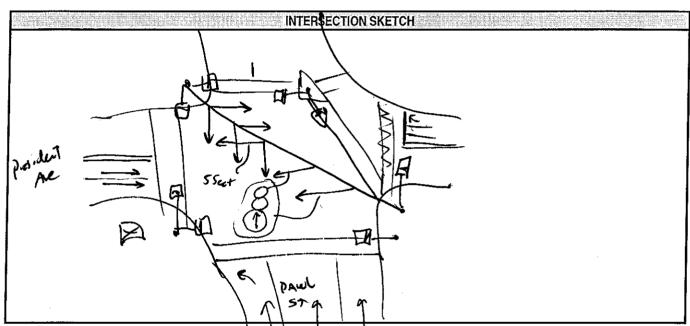
Project: SCR Location: Fall RIVEY 1011131 Project # Sheet of

Date: Checked by: Date:



1. Intersection Location

DAVE ST. NB@ Projet	ent Ae	Fall River, MA	
Intersection	on Name	City or Town	
NA	9/4/07	WRZ	
RIDOT Traffic Signal #	Date of Inventory	Inventory Conducted By	_



Showing Cabinet Location, Signal Poles, Signal and Pedestrian Signals

Equipment	LESS OFFIC SUCCESSORY THE COMPANY		o Phospather Proj		
Mast Arms	Yes 🗌	No.			
Strain Poles	Embedded 🔲	Bolted,			
Tether Wire	Yes 🔀	No 🗍	N/A 🔲		
Overhead Signal Heads	Free Swinging	Rigid X	N/A 🗌	4 TEMER	
Signal Head Visor Condition	Good/	Fair 🔲	Poor 🗌		
R10-12 Signs (prot/perm lefts)	Yes 🔲	No No	N/A 🗌		•
LED Signal Heads	Some	All 🔽	None 🗌		
Backplates	Yes X	No 🗍			
Proper Signal Head Placement	Yes	No 🔲			
ADA pedestrian pushbuttons (2")	Yes,	No 🔲	N/A 🔲		
Pedestrian Signal Type	LED filled in	LED	Fiber 🔲	Incand.	
Pedestrian Signal Displays	Overlapping	Separate	Words		
	Hand/Man	Hand/Man 🔲			
Overall Condition	Good	Fair 🔲	Poor 🗌		

Traffic Signal Inventory

2. Cabinet

Cabinet - External			28 3 3 3 3 3 3 3 3 3 5 7	
Size	"P" 💢	"M" 🔲 Other	· ☐ If "Other" Siz	ze:
Mounting	Ground 💢	Pole 🗌 Other		
Meter Socket	Yes X	No 🔲		
Concrete Pad	Yes	No ☐ N/A		
Manual Control	Yes 🔲	No 🔲	NOT CH	exect
Overall Cabinet Condition	Good /	Fair Poor		
Photo of Inside of Cabinet Taken	Yes	No 🔲		
Police Door Switches	hat a	१६८५६)		
Documentation in Cabinet	Box Pews	org + 1	. ८औं कार्न	zolla manuac
3. Controller D SAGCE Manufacturer	VATA SIAC Model No.	6766 Serial N		32d Sect 60 oftware Rev. Level/Date
Controller				
Туре	NEMA - keyboard	NEMA - Modular 🔲	Non-NEMA	Electromechanical
Platform	TS1 🗆	TS2 Type 1	TS2 Type 2	
Phase Capable Controlling Leg	2 Phase	4 Phase	8 Phase	
Setting Type	Keyboard 🔽	Thumbwheel 🗌	Dial 🔲	Pin 🗌
Controller Condition	Good D	Fair 🗌	Poor	
Misc.		SPKANIANION NINGSPECTO (SEE PE KANGSETTE SHIPTORES AND THE FOR SEA	e del deservation de la Secretaria. La regresión de la Confesion d	ouse such exercises and such as a su
Backpanel Size	12 Pos.			
Conflict Monitor/MMU	Manufacturer: どび	I	Model/Size:	NU-168
Detector Relays	Manufacturer: & I		Quantity/Type:	
Detector Relay Channels Faulting (list channel numbers)	READS NOT	SHOWNS AND IN	I	V

VHB

Traffic Signal Inventory

4. Signal Timing Sheet

01	02 Presidut AVE EB	Su TZ JOUNG ED
04	05 Problet Ale SB-CT	06 President Ave WB
07	98 da: PED. EXCLUSIVE	OLA
OLB	OLC	OLD

PHASE	01 02	03	. 04	05	06	07	08	1
Minimum Green (initial)	6	6		6	6]
Extension (passage) Vehicle Interval	3.0	3.0		30	3,0			
Yellow	3	3		3	3			ŀ
Red Clear	2	Z		2	Ź			
Maximum Green I	15	33		27	77]
Maximum Green II	15	33		27	42			
Pedestrian Walk								_
Pedestrian Clear								1
Walk (flash/steady)								
Recall	SOFT				SOFT			
Memory .								Įź

Intersection Movements:

01	02	03	04	05	06	07	 Ø
	. 31045				\$		Y
	- NIEM			PROT	-		1
	→	1117					 ¥

Coordination Data: Cons. thous 100 None 28600 6856-

	Pat	tern	Days	Time Period	Cycle L.	Offset	01	02	03	04	05	06	07	- 80	49
Q	b	4		0:00-											
٥	اه	ч	2-7	0:00-06:00											
7	Ш	1	2-7	6:00-06:00 6:00-22:00 72:00-0:00	75	O		30	35		12	18			10
Ö	lo	14	2-7	77:00-0:00											
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62+66= cold 74

J:\71408\docs\VARIOUS\Quick inventoryform.doc

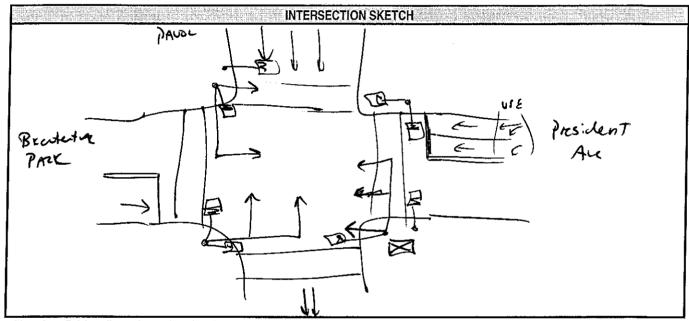
PA = 9 407 12286:30

Traffic Signal Inventory

5.	Notes
	- ALL COOPS NOT WAXING AT RECORD (ALL GOUR TO MAX)
	- PA 72) 7MES = 7/15
	SPLIT = 10 SE COMOS
	.: (ATURISATION DROB OUT OF COORD W/ PED ACTUATION
	NOTE: TIL SOME TO DOCUME
	NOTE: Full mulserial not forfered
	(NECEDITE APPRATION OF PED. BITTONS + COOPS
	·
_	TD 1 (*
6.	Recommendations
	·

1. Intersection Location

DAUST ST. SB @	President Are	Fall River, MA
Intersecti	on Name	City or Town
NA	9/4/07	wy
RIDOT Traffic Signal #	Date of Inventory	Inventory Conducted By



Showing Cabinet Location, Signal Poles, Signal and Pedestrian Signals

Equipment					rigorgi sargri bidab dan b
Mast Arms	Yes Z	- No 🗌			<u> </u>
Strain Poles	Embedded	Bolted			
Tether Wire	Yes 🔲	No 🗌	N/A,		
Overhead Signal Heads	Free Swinging	Rigid 🔀	N/A 🗌		
Signal Head Visor Condition	Good	Fair 🔲,	Poor _		
R10-12 Signs (prot/perm lefts)	Yes 🔲	No.	N/A 🔲		
LED Signal Heads	Some	All 🔯	None 🗌		
Backplates	Yes X	No 🔲			
Proper Signal Head Placement	Yes	No 🔲			
ADA pedestrian pushbuttons (2")	Yes X	No 🔲	N/A 🔲		
Pedestrian Signal Type	LED filled in	LED 🗶	Fiber 🔲	Incand.	
Pedestrian Signal Displays	Overlapping	Separate	Words 🔲		
	Hand/Man 🗸	Hand/Man 🔲			
Overall Condition	Good	Fair 🔲	Poor 🔲		

VHB

Traffic Signal Inventory

2. Cabinet

Cabinet - External					
Size	"P" 💢	"M" 🔲 Othe	r 🔲 If "Othe	er" Size:	
Mounting	Ground	Pole 🔲 Othe	r 🔲		
Meter Socket	Yes	No 🔲			
Concrete Pad	Yes 🔲	No □ N/A	X In B	H AKA	
Manual Control	Yes 🗌	No 🔲	201	CHECK	(S)
Overall Cabinet Condition	Good 🔀	Fair 🔲 Poo	r 🔲		-
Photo of Inside of Cabinet Taken	Yes Y	No 🔲			· · · · · · · · · · · · · · · · · · ·
Police Door Switches	NOT CH	eurd			
Documentation in Cabinet	A B	ecked for Proofs any			
3. Controller D ૬૮૭૬	Pata WK	67659		3,32,0	1 Sort as
Manufacturer	Model No.	Serial	No.	Software	e Rev. Level/Date
Controller		i Lingk se sa sang gajging			
Туре	NEMA - keyboard	NEMA - Modular	Non-NEMA	A 🔲 Ele	ctromechanical 🔲
Platform	TS1 🔲	TS2 Type 1	TS2 Type 2		
Phase Capable Controlling Leg	2 Phase 🔲	4 Phase	8 Phase	X	
Setting Type	Kardaara [7]			·	D: []
	Keyboard	Thumbwheel	Dial		Pin 📙
Controller Condition	Good	Thumbwheel Fair	Dial Poor		PIN []
			+		Pin []
Controller Condition	Good	Fair	+		PIN [_]
Controller Condition Misc.		Fair	Poor		
Controller Condition Misc. Backpanel Size	Good Z	Fair	+		

VHB

Traffic Signal Inventory

4. Signal Timing Sheet

01	02 PARK ETEB	03
04 DAUDL ST SB	05	06 President Ave WB
07	88 Rd BED EXCUSING	OLA
OLB	OLC	OLD

PHASE C	02	03 04	05 06 07	08]
Minimum Green (initial)	4	12	12	
Extension (passage) Vehicle	25	10	20	
Interval	3.0	3.0	3.0	
Yellow	4	4	4	
Red Clear	3	a	<u> </u>	
Maximum Green I	19	36	30	
Maximum Green II	19	36	30	
Pedestrian Walk				7
Pedestrian Clear				14
Walk (flash/steady)				
Recall				
Memory				

Intersection Movements:

01	02	03 04	05	06	07	08	1
	9	e the		5			1,
	4					!	*

Coordination Data: DATA: 1

Free

None None	BEGUNNAL BEGUNNAL
-----------	----------------------

Pattern	Days	Time Period	Cycle L.	Offset	01	02	03	04	TIMES 05	06	07	08	89
0014													,
वेशेप	7-7	0:00- 06:00											
ddi	2-7	\$6:∞- ZZ:00	75	5		16		Z5		20			14
ololy	2-7	0:00- 06:00- 06:00- 22:00- 22:00- 0:00											
							<u> </u>						
													

J:\71408\docs\VARIOUS\Quick inventoryform doc

18:20:30 12:20:30

\$6 = MW ZECALL > By 7.0. D

Traffic Signal Inventory

5.	Notes
	09 PED 7ME = 7/15
	SPIT = 14 Seconds
	: INPRISECTION DROPS OF CONDUNATION OF PED ACTUATIONS
	- IMMUSECTION APPROPER TO DEMANE COTRECTLY
	NOTE: Full coulded of Penting of PEA Bittous + coops
6.	Recommendations

Project: Rt. 19

Location: Fall River

Calculated by: 65

Checked by:

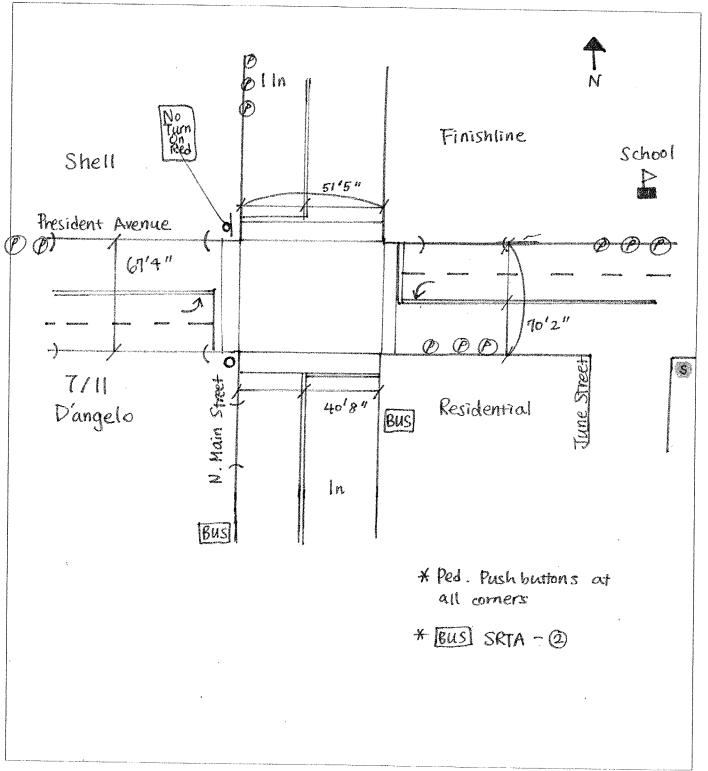
Project # 16137.00

Sheet 1 of 8

Date: Tues, 5/22, 2007

Date:

President Avenue @ N. Main Street



Location: Fall River, MA

Calculated by: GS

Checked by:

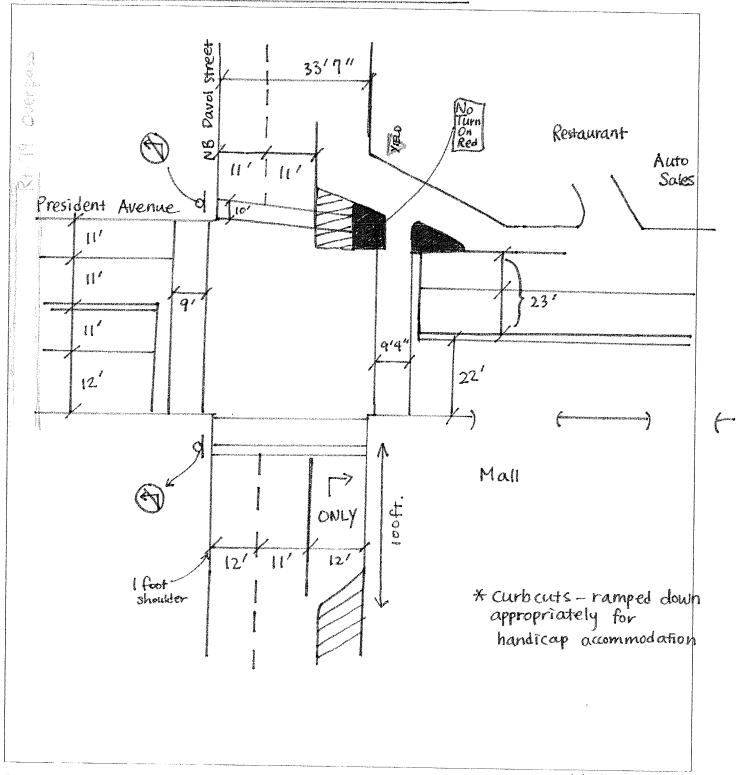
Project # [0|3¶.00

5 of 8 Sheet

Date: Tues, May 22, 2007

Date:

Title PI Davol Street NB® President (East) Avenue





Location: Fall River, MA Sheet

Calculated by: G-S

Checked by:

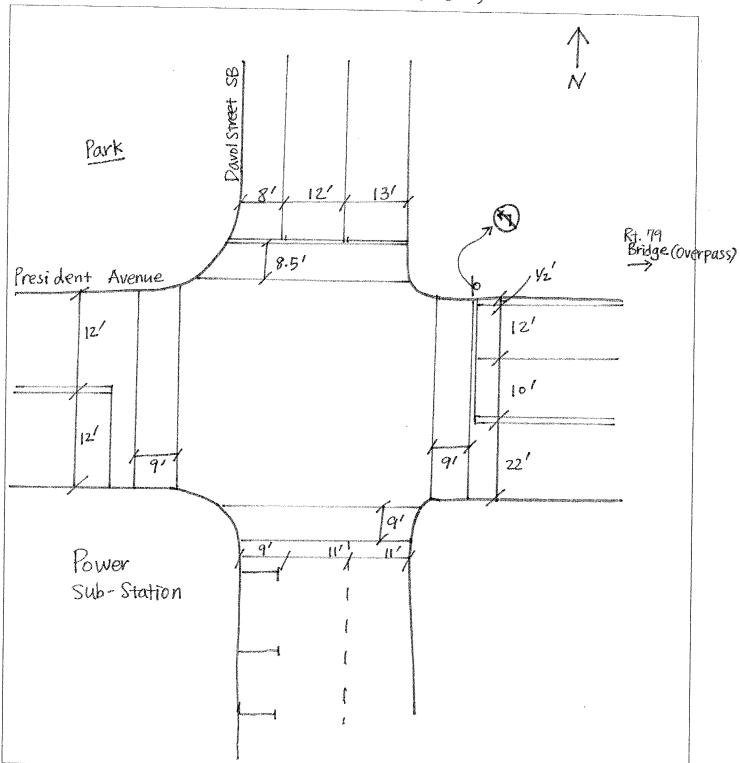
Project # 10137.00

Sheet 4 of 8

Date: Tuesday, May 22, 2007

Date:

Davol Street SB @ President Avenue (West)



Project # 10137.00

Location: Fall River, MA

Sheet 6 of 8

Calculated by: 65

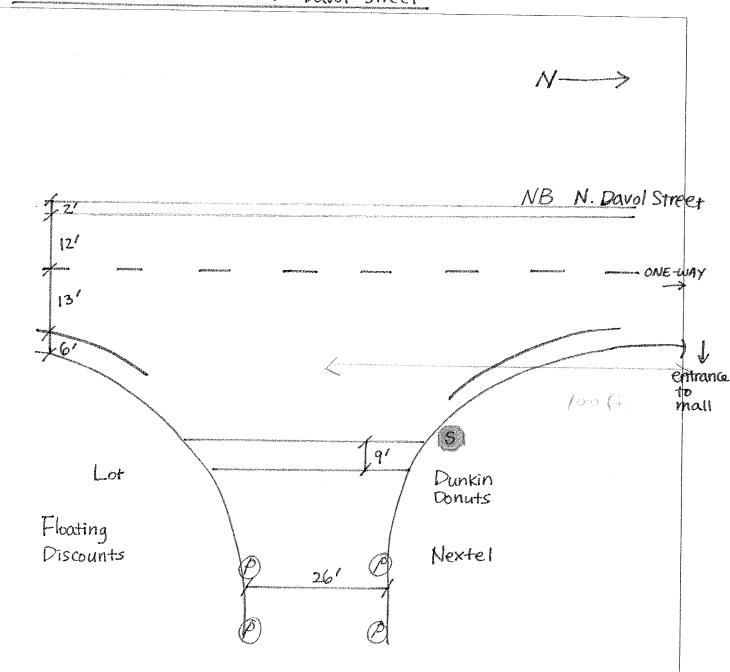
Date: Tuesday, May 22, 2007

Checked by:

Date:

Title PI

Pearce Street @ NB. N. Davol Street



Project # 10137.00

Location: Fall River, MA Sheet 7 of 8

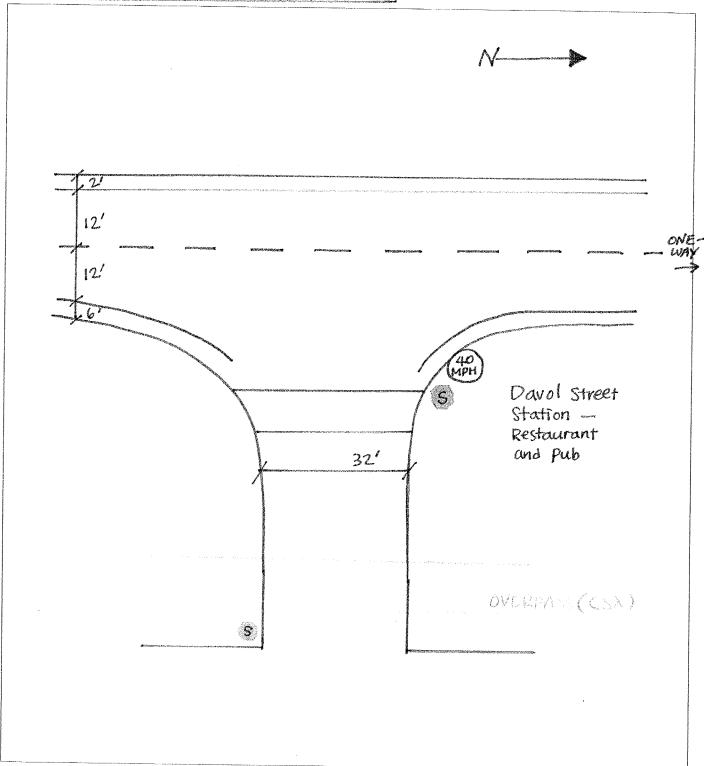
Calculated by: 6-S

Date: May 22, 2007 Date:

Checked by:

Title PI

Turner Street @ NB. N. Davol Street



Project # 10137.00

Location: Foll River, MA

Sheet 2 of 8

Calculated by: GS

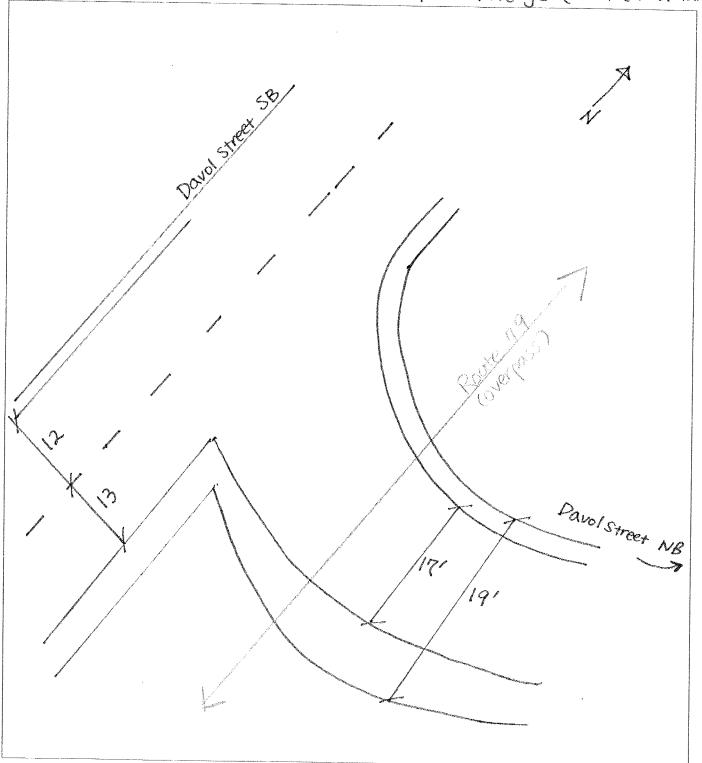
Date: Tues, May 22,2007

Checked by:

Date:

Title PI

Davol Street SB U-turn @ Rt. 79 Overpass - Diverge (Northern U-turn)



Location: Fall River, MA

Calculated by: GS

Project # 10137.00

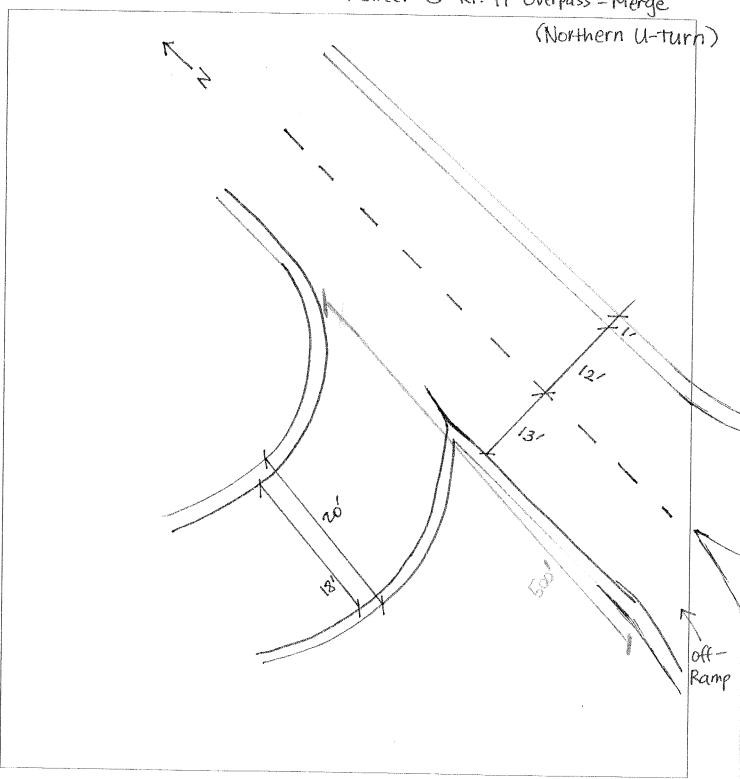
Sheet 3 of 8

Date: Tues, May 22, 2007

Date:

Davol Street U-turn to NB Davol Street @ Rt. 79 Overpass - Merge

Checked by:





Project # (0137.00

Location: Fall River, MA Sheet 8 of 8

Calculated by: 65

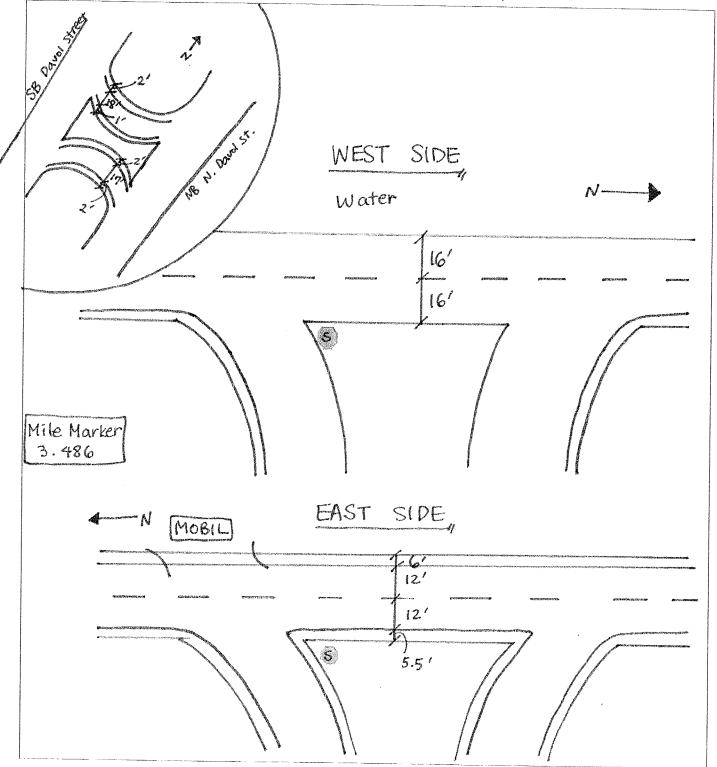
Date: Tuesday, May 22, 2007

Date:

Checked by:

Title PI

U-Turns between Davol Street NB & SB (South)



1. Intersection Location

Næth Man St @ Pres.	dent Ave	_ Fall River, MA
Intersection	Name	City or Town
. I a	9/4/07	LARA
RIDOT Traffic Signal #	Date of Inventory	Inventory Conducted By

INTERSECTION SKETCH	
president Ava	

Showing Cabinet Location, Signal Poles, Signal and Pedestrian Signals

Equipment				
Mast Arms	Yes, V	No 🔲	27. 27.048 v 24.400 v 3.500 v	THE STATE OF THE WASHINGTON TO STATE OF THE
Strain Poles	Embedded	Bolted		NO
Tether Wire	Yes	No 🗌	N/A 🔀	
Overhead Signal Heads	Free Swinging	Rigid 🗌	N/A 🔲	
Signal Head Visor Condition	Good 🗌	Fair	Poor 🔲	
R10-12 Signs (prot/perm lefts)	Yes 🗌	No 🔲	N/A 🛛	
LED Signal Heads	Some	All 🔽	None 🔲	APPEAL to BE- SOME NOT SUES
Backplates	Yes 🗌	No ;		Not step
Proper Signal Head Placement	Yes 🔀	No 🔲		
ADA pedestrian pushbuttons (2")	Yes 🔲	No 🔀	N/A 🔲	OLD EMALL BUTE-)
Pedestrian Signal Type	LED filled in	LED 🔲	Fiber	Income IV
Pedestrian Signal Displays	Overlapping	Separate	Words 👿	oversome
	Hand/Man 🗌	Hand/Man 🔲		DURCATIO
Overall Condition	Good 🔲	Fair (IX	Poor 🔲	

VHB

Traffic Signal Inventory

2. Cabinet

Cabinet - External	Ţ.				
Size	"P" 💢	"M" 🔲	Other \square	If "Other" \$	Size:
Mounting	Ground 🔽	Pole 🔲	Other \square		
Meter Socket	Yes X	No 🔲			
Concrete Pad	Yes 🗌	No 🔲	N/A 【X	DACK C	of shewalk
Manual Control	Yes 🗌	No 🔲		ייסר.	cuected
Overall Cabinet Condition	Good 🔲	Fair	Poor 🗌		
Photo of Inside of Cabinet Taken	Yes 🗌	No 🗌			
Police Door Switches	NOT CUECKS	÷λ		,, ,, , , , , , , , , , , , , , , , ,	
Documentation in Cabinet	אאמע				
3. Controller D <u>ક્ષ્મહલ</u>	EPAC	6)90			3,32 A (Sytob) Software Rev. Level/Date
Manufacturer	Model No.		erial No.		Software nev. Level/Date
Controller					
Туре	NEMA - keyboard	NEMA - Modula	ar 🔲 N	lon-NEMA	☐ Electromechanical ☐
Platform	TS1 🔽	TS2 Type 1	1 🔲 TS	S2 Type 2	
Phase Capable Controlling Leg	2 Phase	4 Phase		8 Phase	7
Setting Type	Keyboard X	Thumbwhee		Dial _] Pin _
Controller Condition	Good C	Faiı	r 🔲	Poor _]
Misc.					on digital of a design and the second state of the second
Backpanel Size	12 PUS				
	_		Mod	لام :del/Size	m-12
Conflict Monitor/MMU	Manufacturer: EDI		. I IVIOL	ION CIZO. /QJ	(*, , 05
	Manufacturer: EDT Manufacturer:			intity/Type:	
Conflict Monitor/MMU Detector Relays		S36+	Qua	intity/Type: ´- み <i>ひ</i>	1ANNO)

VHB

Traffic Signal Inventory

4. Signal Timing Sheet

01 President AVE ER/WB	02 PED (EXCL)	03 N. MW ST NB/SB
04	05	06
07	08	OLA
OLB .	OLC	OLD

PHASE	01	02	.03	04	05	06	07	08
Minimum Green (initial)	8		8			-		
Extension (passage) Vehicle Interval	5.0		6.0					
Yellow	3	3	3					
Red Clear	1	-	(
Maximum Green I	35		25					
Maximum Green II	45		3 <i>5</i>					
Pedestrian Walk		10						
Pedestrian Clear		19						
Walk (flash/steady)		•						
Recall	SOFT						!	
Memory	LOCK		LOCK					

S = JA TH

Intersection Movements:

01	02	03	04	05	06	07	08
	x - X - X - X - X - X	do Cr			:		

Coordination Data:



						SPLIT TIMES						
Pattern	Days	Time Period	Cycle L.	Offset	01	02_	03	04	05	□ 06	07	80
<u>.</u>												

Traffic Signal Inventory

5. Notes - par PAULICY MOLLINGS (SXCEPT SL, CW + ARROWS)
- 41 has propping only
THATER 700 KENY TO VICEY 43
- INTHISONU ATTUON TO OPENAR TRUTTEY
NOTE: Full inspection not Performed inclose operation of Ped. Buttons + cools
MODIAC STRATES OF RD. BATTON 7 COOPS
6. Recommendations
· ·



R 40 MPH on S, Main St

SCR Project:

10111,31 Project #

Location: FREETOWN

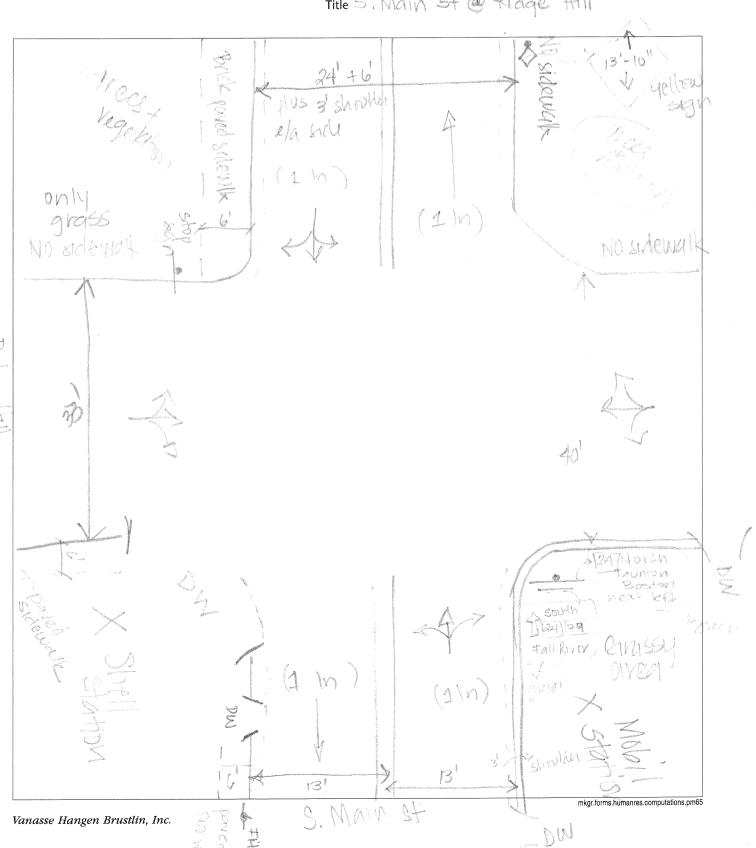
Sheet Date: 9/10/08

Calculated by: Checked by:

Date:

Title S. Main St @ Ridge

NL



Vanasse Hangen Brustlin, Inc.



Pavein = four /good

SCR Project: Location: TREETUN

Calculated by:

Checked by:

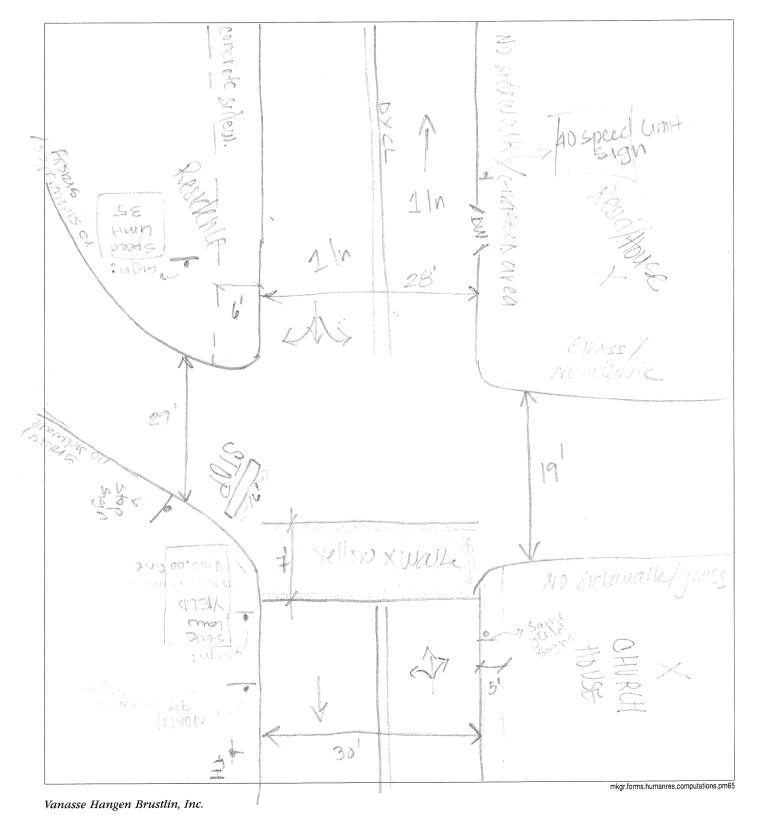
Title 3 Main St @ High St.

Project #

Sheet

Date:

Date:



Project:

10111.31 Project #

Location: FREETOWN

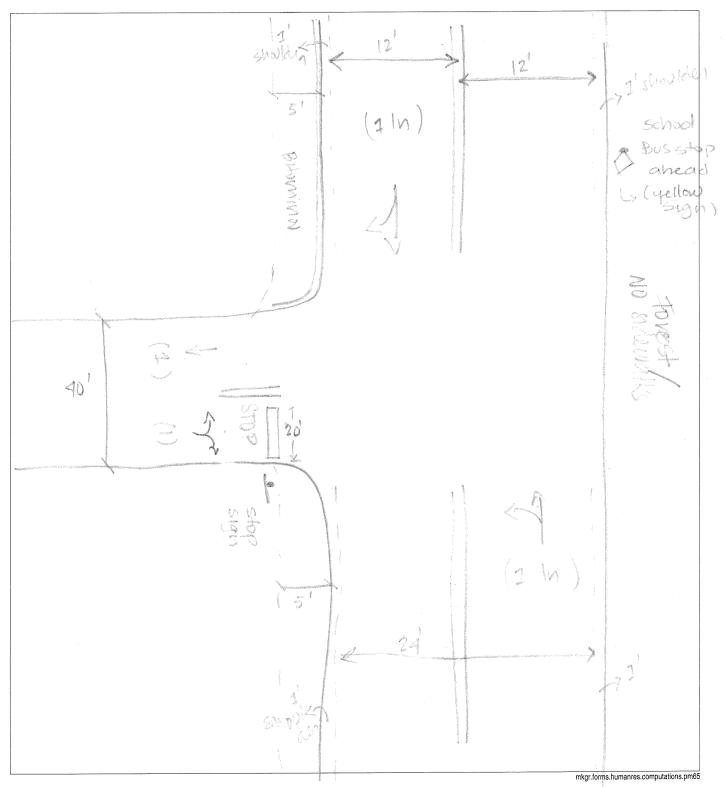
of 9/10/08 Sheet

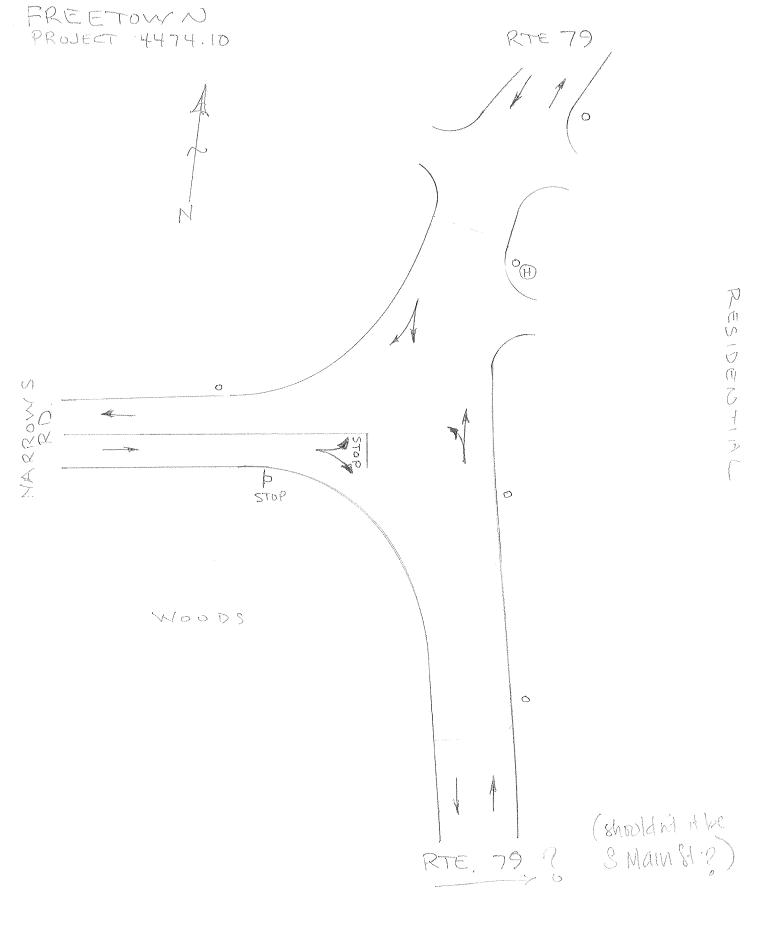
Calculated by:

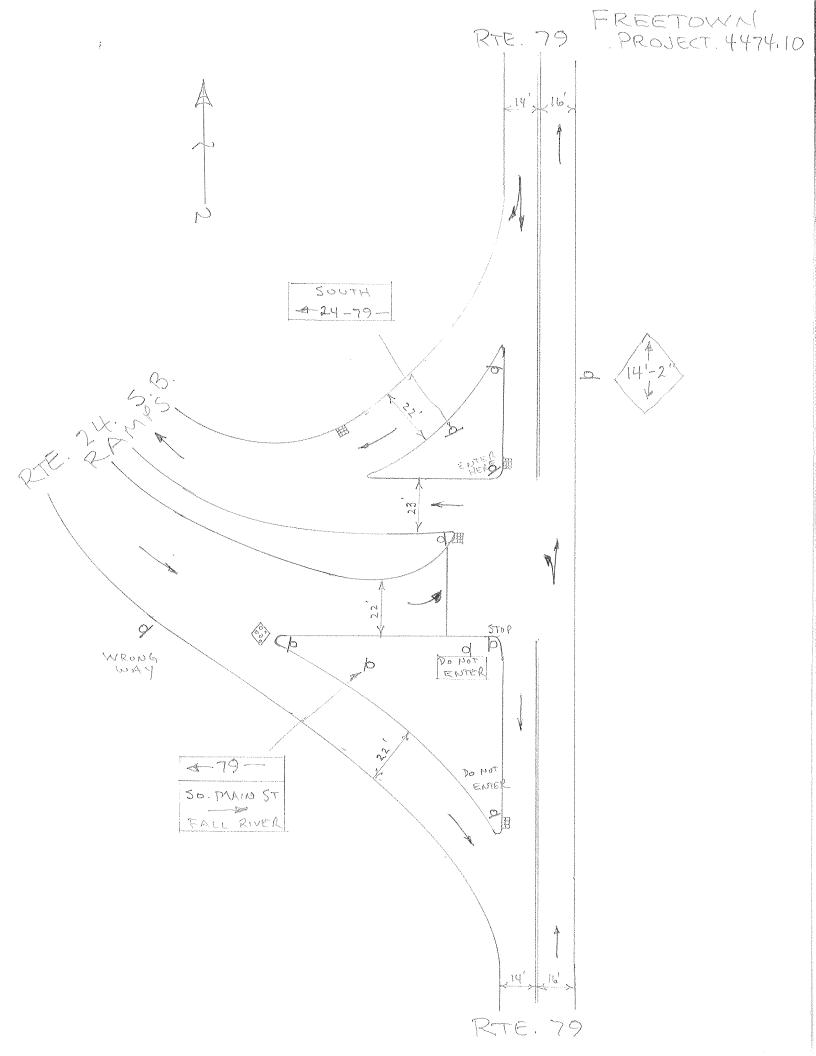
Date:

Checked by: Title S : May 5+ &

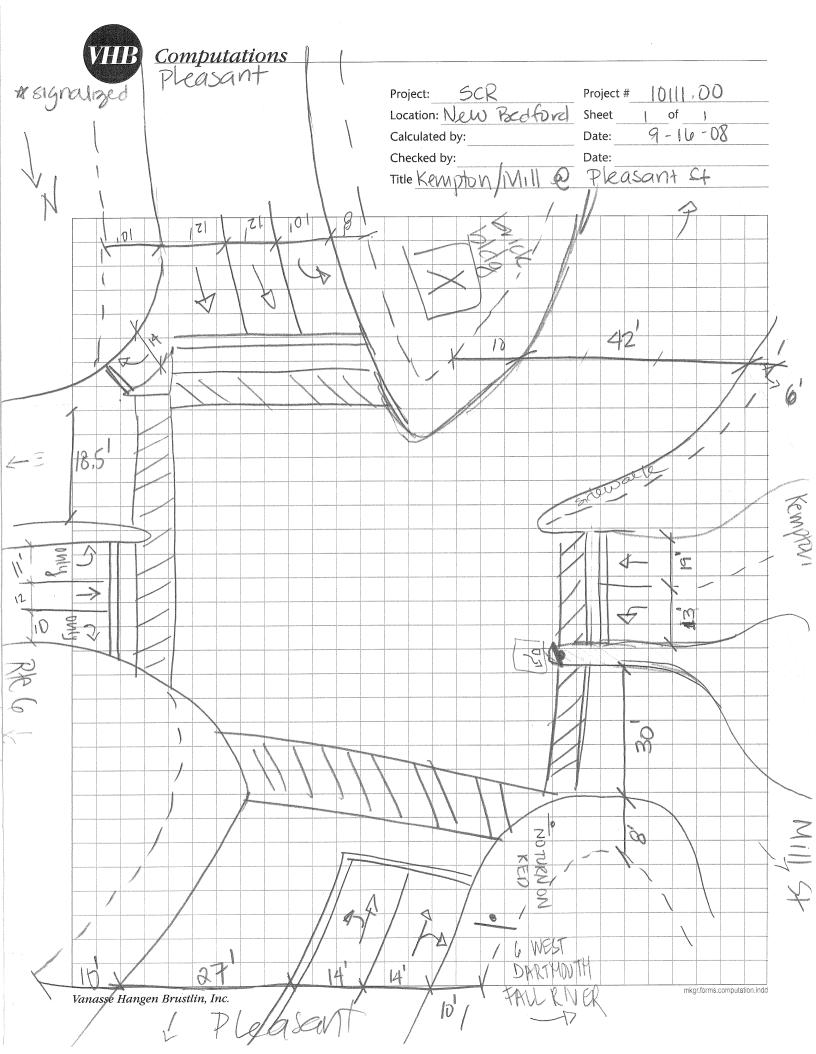
Date: Copicut Pid/Ke 79







FREETOWN PROJECT. 4474,10 RTE. 79 MORTH 79 ____ TRUCKS ENTERING RIGHT - 19 mg ASSONET MIDDLEBOLD SO. MAIN ST. FALL RIVER DO NAT ENTER \bigcirc < 15' 16, DO NOT ENTER 1/2 q'23/ PROSW H STOP 10 O ENTER QNORTH 4-24-. Д <14' 16's RTE.79



VHB Computations Project: SCR Project # 10111.00

Location: New Bedford Sheet 1 of 1

Calculated by: NL Date: 9-16-08

Checked by: Date: Pleasant St * signalized 301 mkgr.forms.computation.indd Vanasse Hangen Brustlin, Inc.

Computations 10 North Tourthy Laxeville Project: Project:

Location: New BedOV

Coloulated by: NL Sheet Date: Date: Checked by: Title Hillman St @ RK 18 on-Ramp @ Acushnet/McArthur Awashnet Ave D 19 RA 18 NO ON-RAMD 17 mkgr.forms.computation.indd Vanasse Hangen Brustlin, Inc.

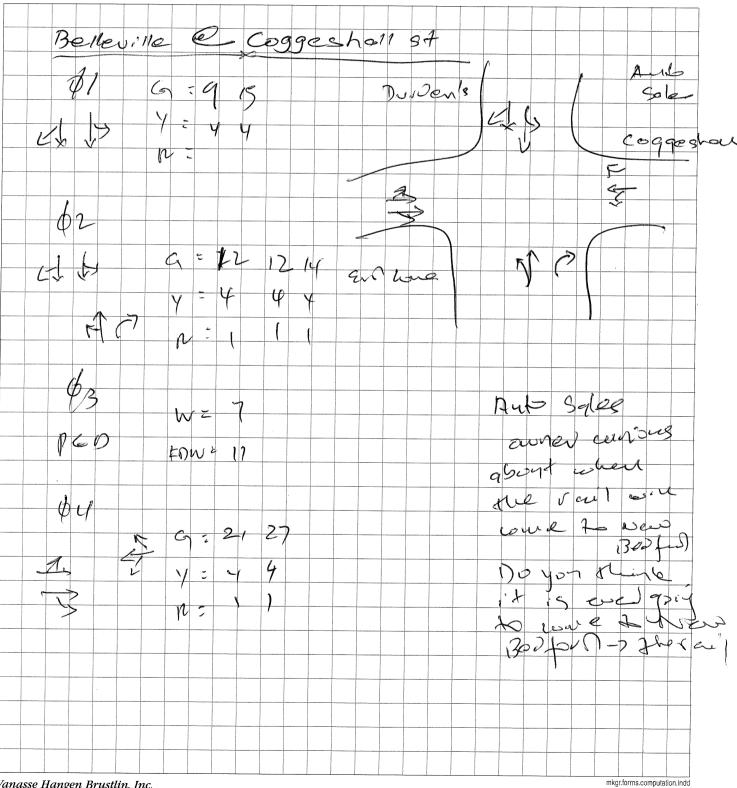
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Computations & signalited Project: SCR Location: New Bedford Project # | | | | | | | | O O Sheet 9-16-08 Calculated by: Date: Date: Checked by: Dr @ Union @ Rte 18 Title Mc Av Hour MC, Arthur Dr Rtc 18 SB Rte 18 NB 10 121 21 \$ 11 112 10 huo 4 4 no left TUN 18 DA SKE 1. Let lane must two but 01/14 21 20 13 17 12 1 W II C mkgr.forms.computation.indd Vanasse Hangen Brustlin, Inc. RK 18 SB RK 19 NB MC ANTHON IN



Project #__/0(11,3) SCR Project: Location: Sheet Calculated by: RNR Date: Checked by: Date: Title Signow Tinuing #5





Vanasse Hangen Brustlin, Inc.

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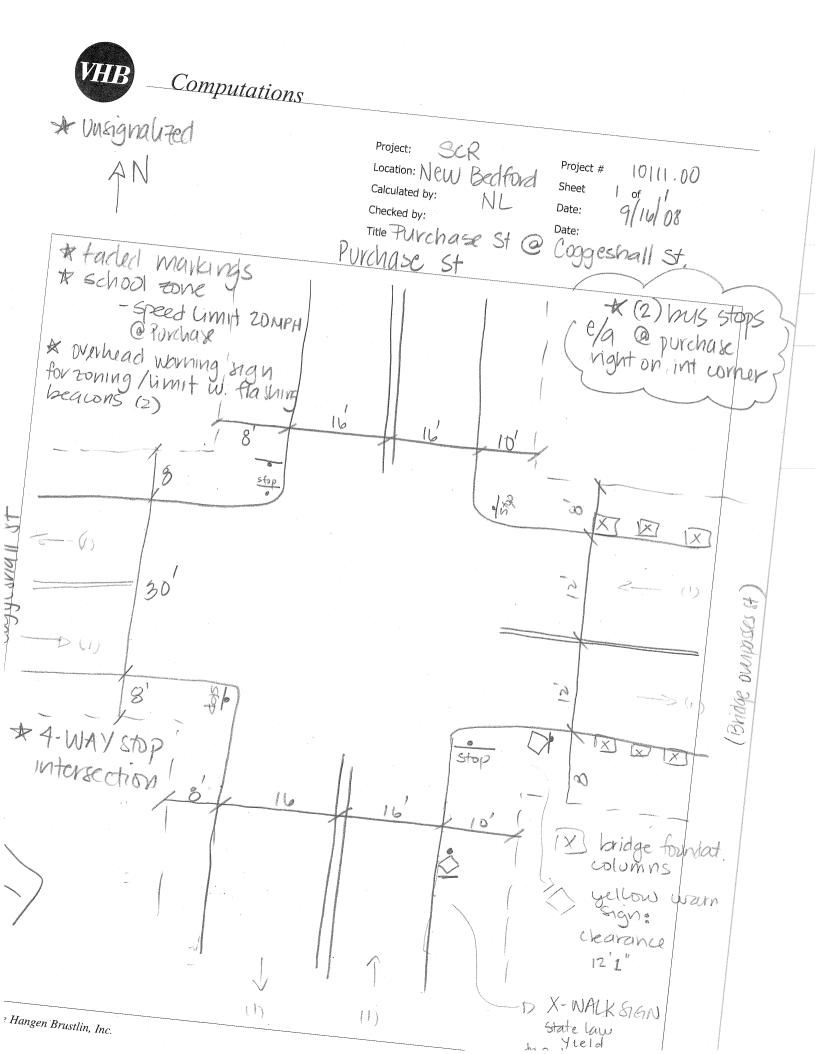
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		Calculated by: RNR Date: 9/16	-108
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Project:

10111.31

Project #



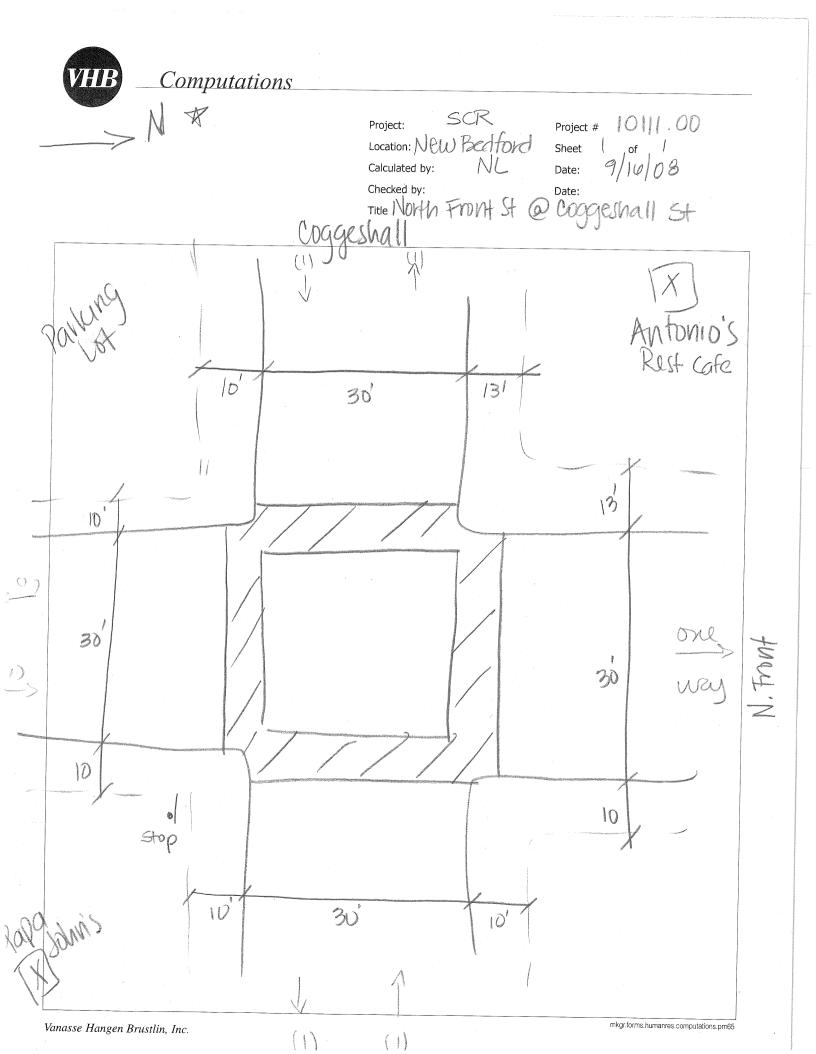
10111.31 Project # Location: New Bedford Sheet NL Calculated by: Date: Checked by:

Title Loggeshall @ Rtc 18/Ashley Blvd (SB) #819nauted yellow warn. sign Bridge ahead 12'1" 12] 81 12 20-1 10 Ashley Blud /RR 18 10' 4(3) 10 11 10 10 Acushnet 10 18 S10741 POWNTOWN (1) Vanasse Hangen Brustlin, Inc. mkgr.forms.humanres.computations.pm65

SCR

Project:

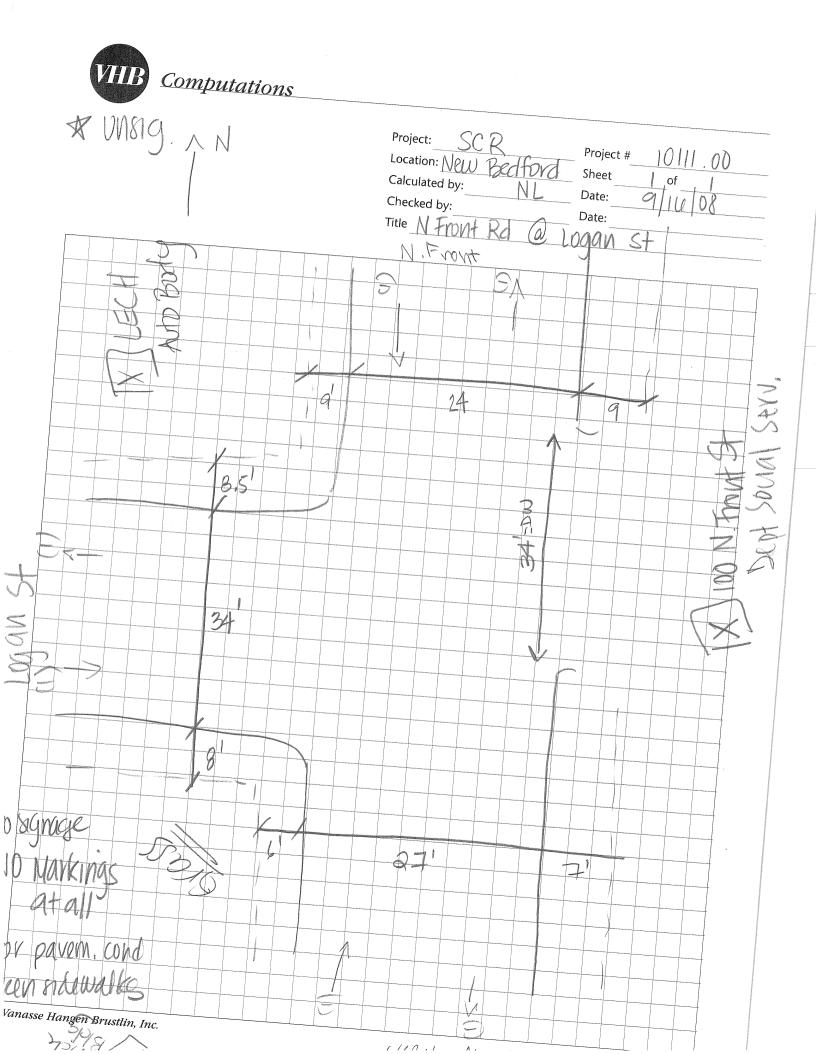
Computations * segralized 11 N SCR 00.11161 Project: Project # Location: New Beckford Sheet NL Calculated by: Date: Checked by: Date: Title ALUSh net AVE/18 NB@ Coggeshall St Marine & metered on-st parking CONNEDUAL RESIDENCES Acushnet/RH: 18 North 18 8 10 11 15 coageshall st 11) 15 15 ーン (1) 10 Coggestiall St Faurhaven TONGO < DIMO DNIA mkgr.forms.humanres.computations.pm65 Vanasse Hangen Brustlin, Inc. ONE WAY A

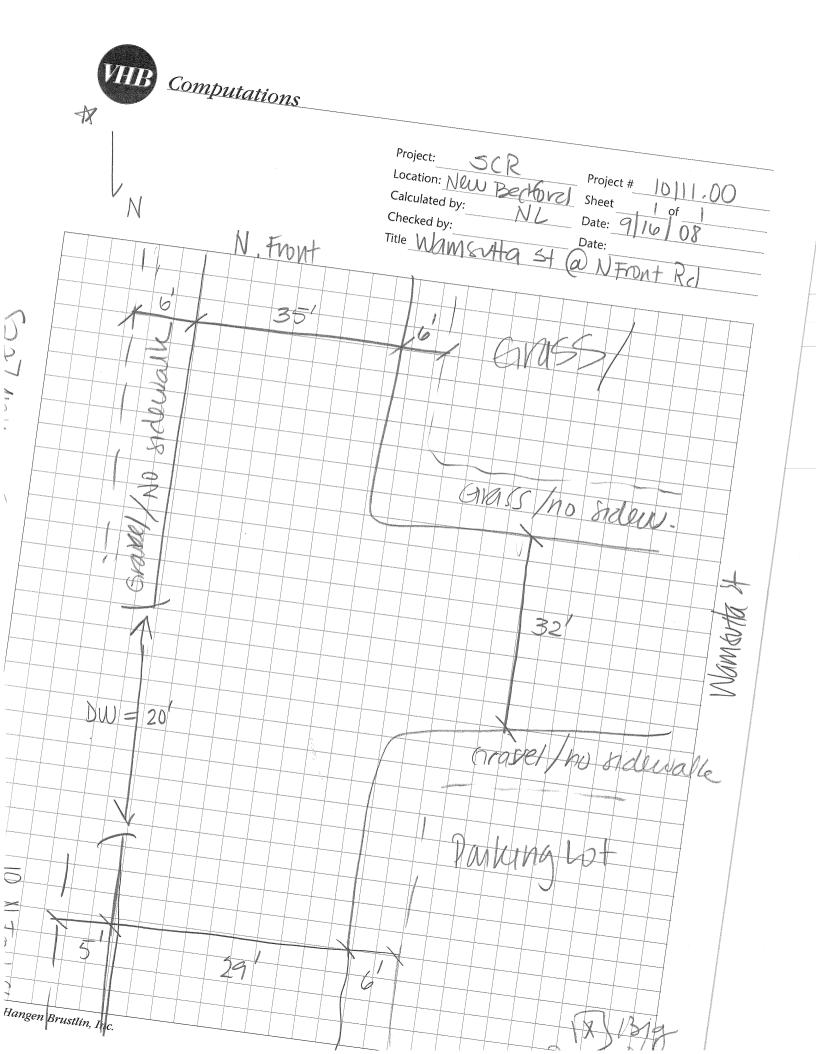


VIIB Computations Project: SCR
Location: New Beclford
Calculated by: NL Project # 10111,00 Sheet Checked by: Checked by:

Date:

Title Cogeshall 5+ @ Belleville Ave * Signalized 10 7.51 23 101 DILY SUCS 5 33 10' 10' ınasse Hangen Brustlin, Inc.





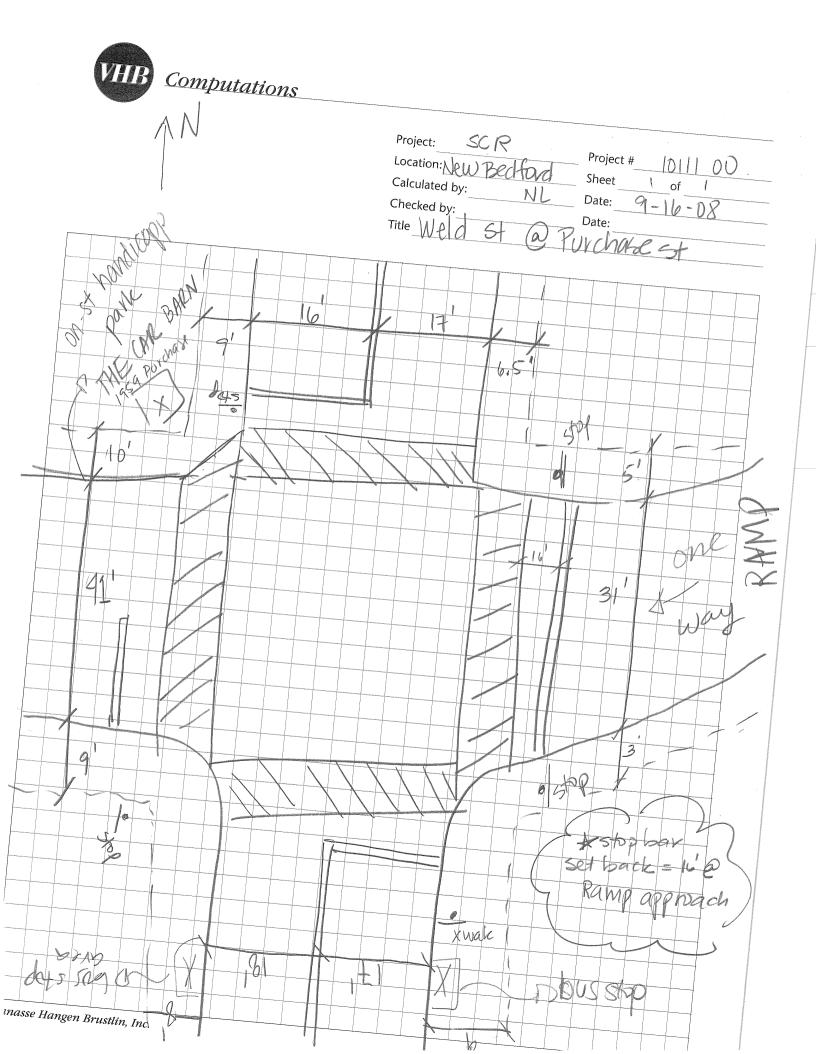
ekonana	
* Bridge	

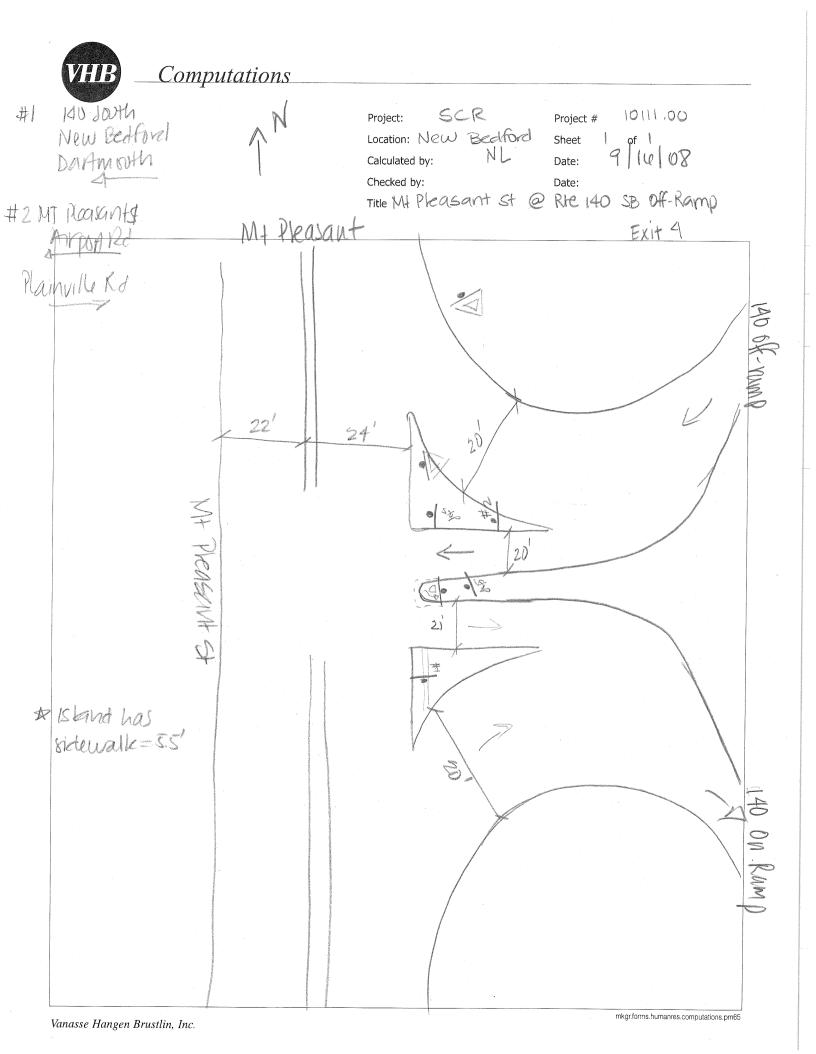
Vanasse Hangen Brustlin, Inc.

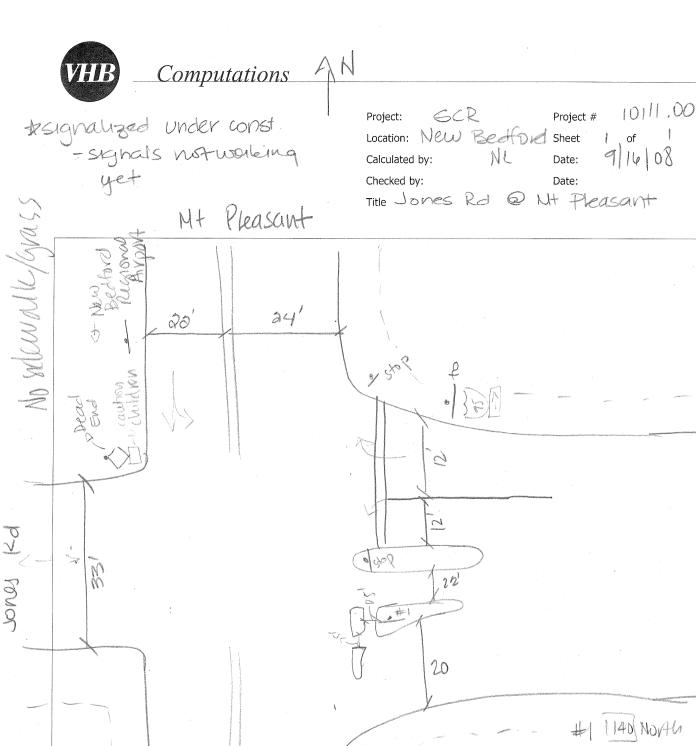
VIIB Computations	Bridge (RR) Over intersection its foundations lie on sidewalks @ int.
* markings faided	Project: SCR Project # 1011.00 Location: Now Bedford Sheet of Of Calculated by: Date: 914.08 Checked by: Date: Title M.C. AYHUV OVIVE @ @ WAMSUHAST
* unsignalized A 8 V 29'	Title M C Arynur Dr Ive W Waynov 10 5+
	TAS MAN ST.
	mkgr.forms.computation.indd

	* marpings <u>facted</u> * Lk 18 goes over logan (west side) Mc Avt	Project: SCR Location: New Bedford Calculated by: Checked by: Title McArthur Dr &	Project # 10111.00 Sheet of Date: 9-16-08 Date: PLogan St
	Blds 10°		12'!"
34			30
	550		
	8.5	35	

VIIB Computations	
N * no signage (stop) * unsig Pur	Project: SCR Project # 10111.00 Location: New Bedford Sheet of Calculated by: NL Date: 9-16-08 Checked by: Date: Title Purchase St @ Loggn CNASE
Enammalvo's 1- D Mayket	Real X
	18' = DW
	Parking
tiquor Store	mkgr.forms.computation.inde







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New Bedford



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Project:

SCR

Project #

10111.00

Location: New Bedford

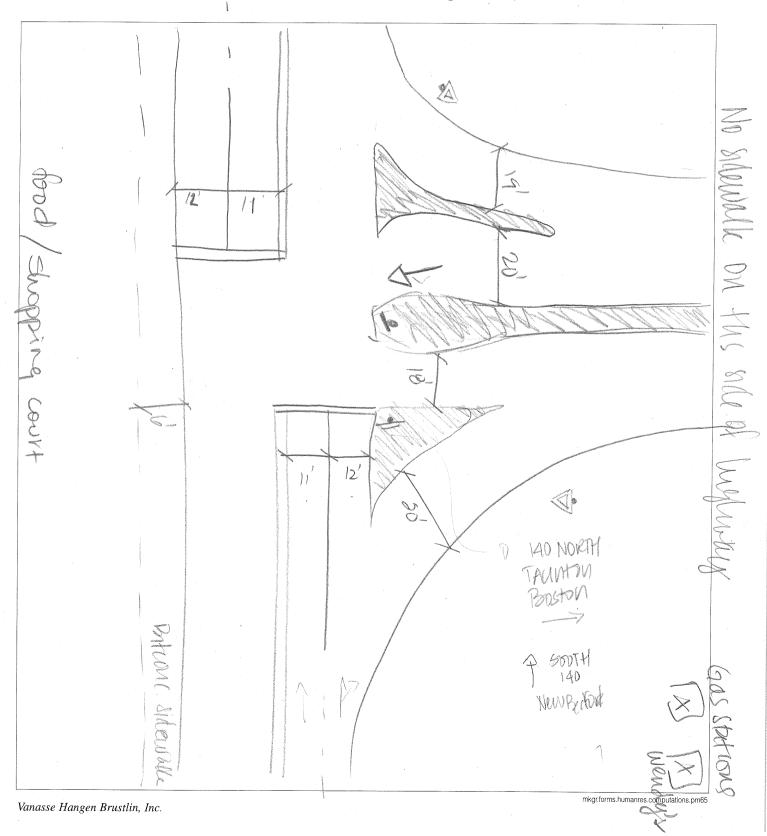
Sheet

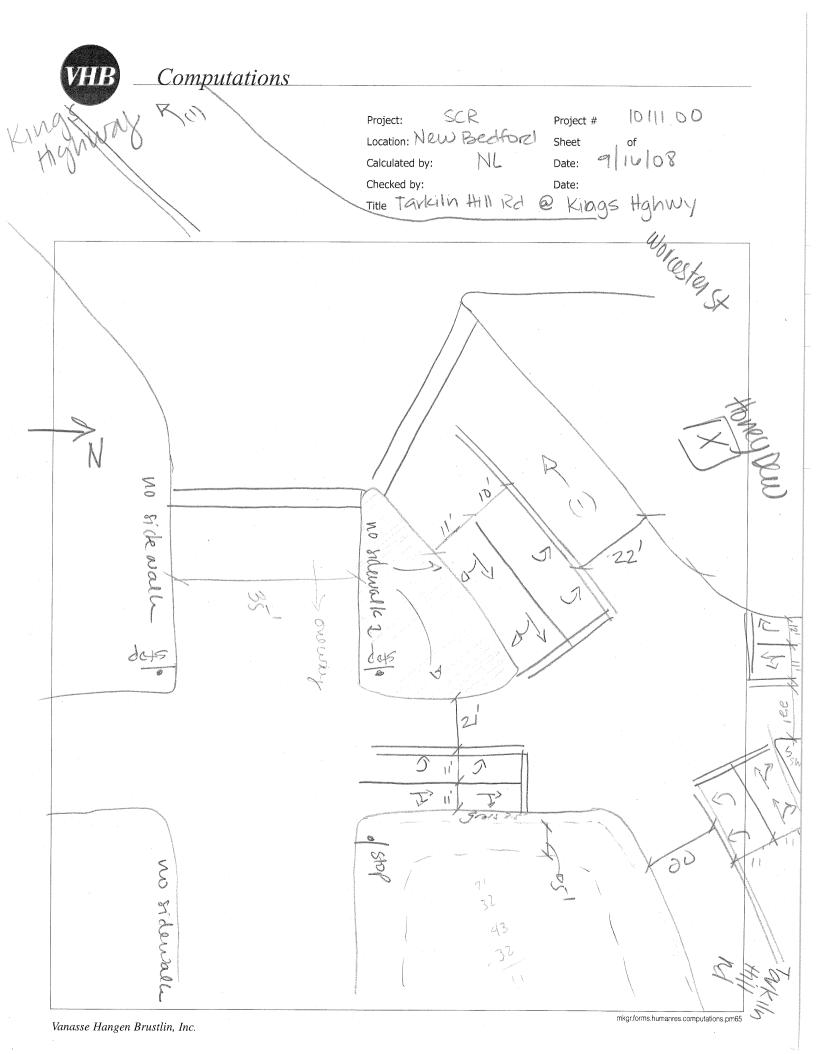
of 9/16/08

Calculated by: Checked by: Date:

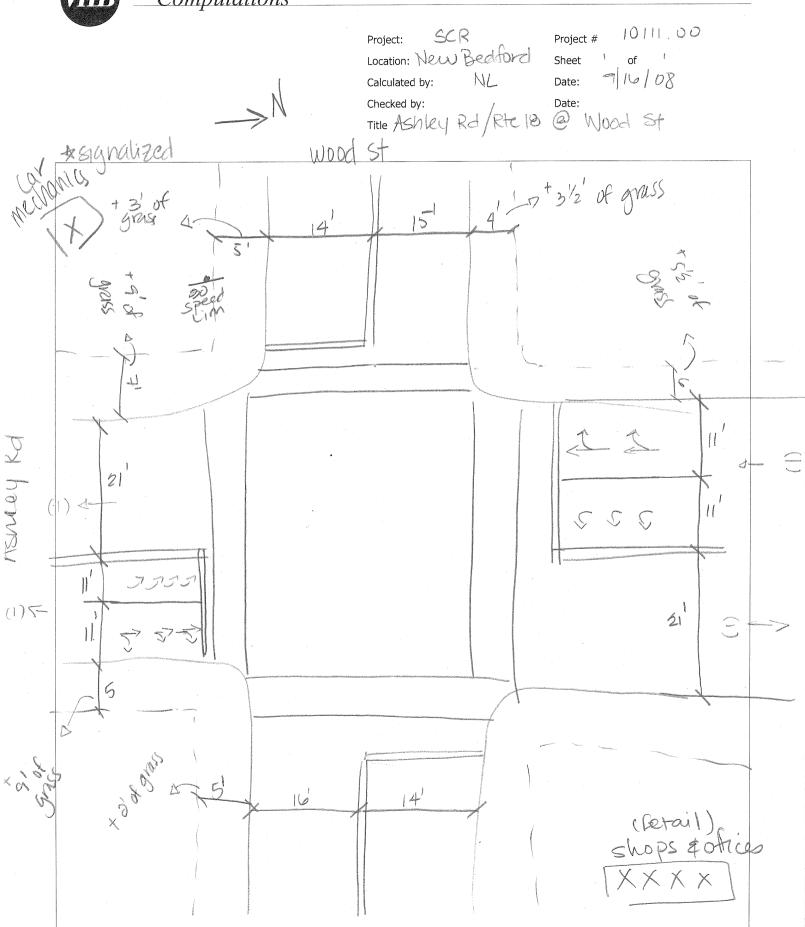
Date:

Title Kings Highway @ 140 ON-Ramps









Vanasse Hangen Brustlin, Inc.

mkgr.forms.humanres.computations.pm65



* Unsignalized _ no stop signs - almost no markings

Project:

SCR

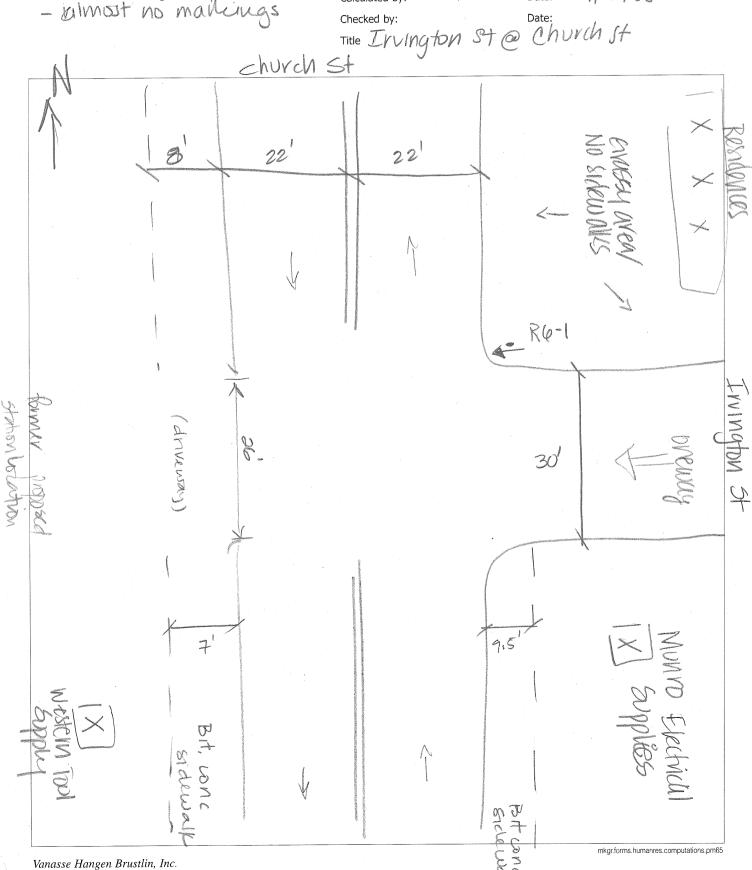
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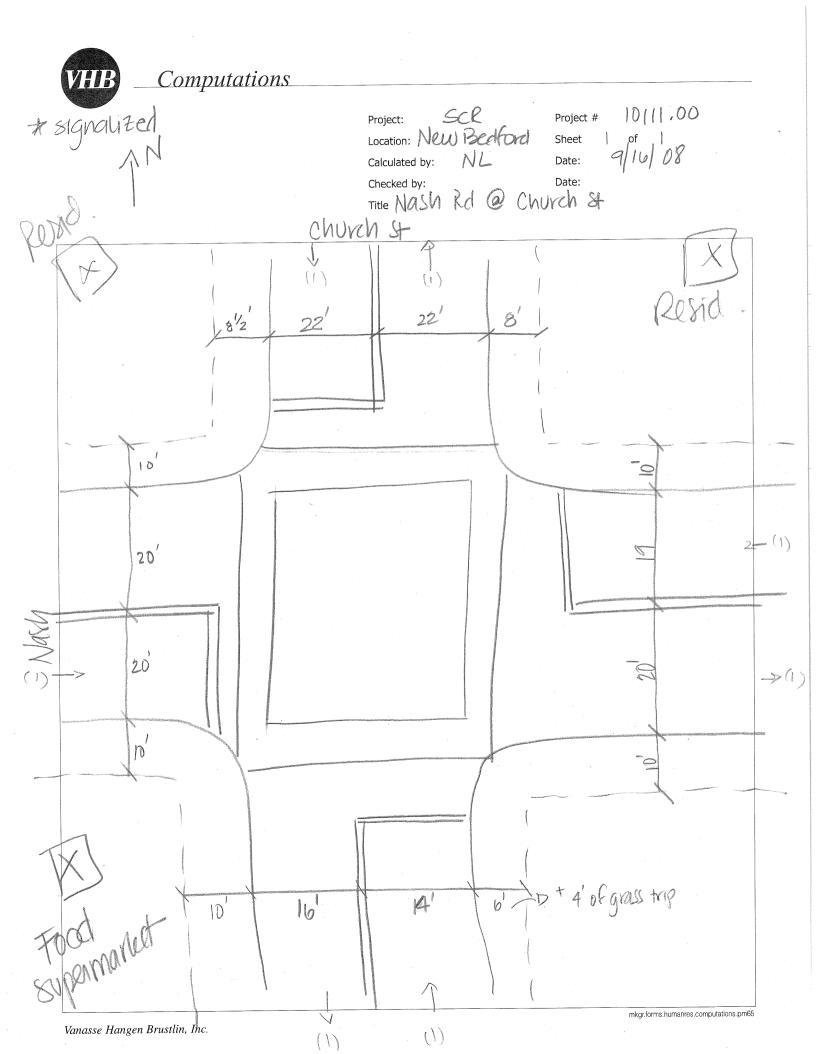
10111.00

Location: New Bedford
Calculated by: Calculated by:

Sheet Date:

1 of 1 9/16/08



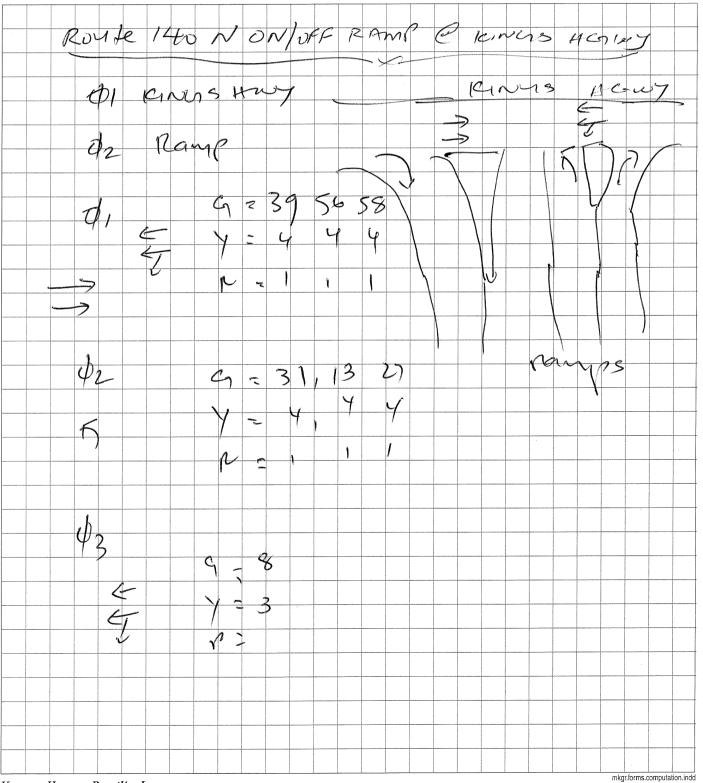




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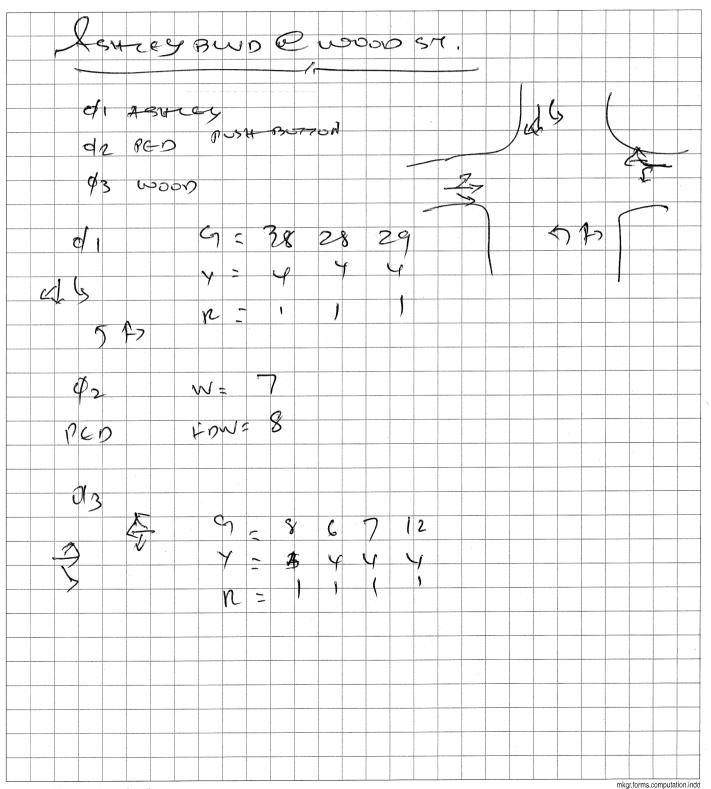


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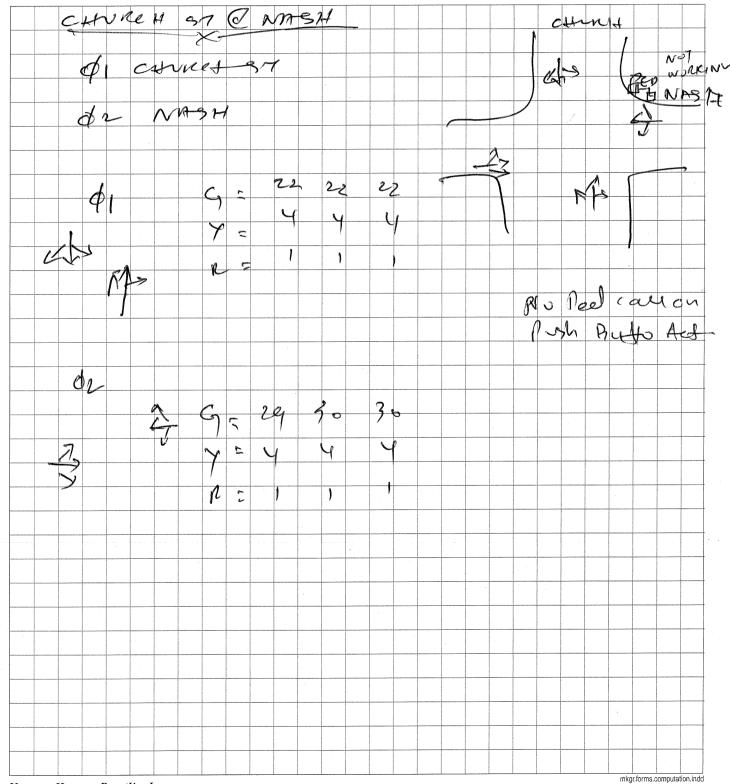


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THE COMMONWEALTH OF MASSACHUSETTS MASSACHUSETTS HIGHWAY DEPARTMENT

TRAFFIC SIGNAL LAYOUT PLAN AND PERMIT KING'S HIGHWAY AT RTE 140 NB RAMPS

IN THE TOWN OF

NEW BEDFORD BRISTOL COUNTY

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LOCUS MAP (SCALE AS SHOWN)

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NEW BEDFORD
KING'S HIGHWAY AT RTE 140 NB RAMPS
STATE SIGNAL ID NO. REMSION SHEET TOTAL, NO. NO. NO. SHEETS
MASS 1319 01 1

TITLE SHEET

Under authority of Chapter 89, Sec. 8 General Laws, Tercentenary Edition, the Massachusetts Highway Department hereby approves the following described traffic control signal inetallation, and auxiliary signs and surface markings, for the above location, provided that a permit for the opening of the road and the placing of structures thereon shall be received from the board or officer in charge of the road

This permit is granted for the specific signal installation described herein and for its operation in accordance with the conditions set forth below and with the requirements of the Massachusetts Highway Department. The details for any material alterations or any continuede or substantial departure from the provisions of this permit must be submitted to the department for approval with data sufficient to justify such modification. Failure to comply with these requirements automatically voids this permit during such time as non-compliance exists.

1. STANDARDS OF INSTALLATION

The traffic control signal installation and all auxiliary signs and surface markings which are used in connection with such installation shall conform with the requirements of the Massachusetts Highway Department and with the sketch which is attached.

II. OPERATION OF SIGNALS

(a) Type of control:
AUTOMATIC
COORDINATED

(c) Special connection:
TIME—BASED
(d) Timing for automatic operation:
Signals may be operated automatically for a shorter period of time but not for a greater length of time than is here indicated except when unusual conditions arise which temporarily justify longer operation.

(f) Flashing Operation: Whenever a signal is not operating as a control device (stop and go), it must Flash Yellow or Flash Red as set forth in the signal sequence and at the rate of 50-60 flashes per minute unless otherwise specified in Part II(e) of this Permit.

(g) Manual Operation: Signals may be operated manually at any time irrespective of the hours designated in Part II(3) of this permit

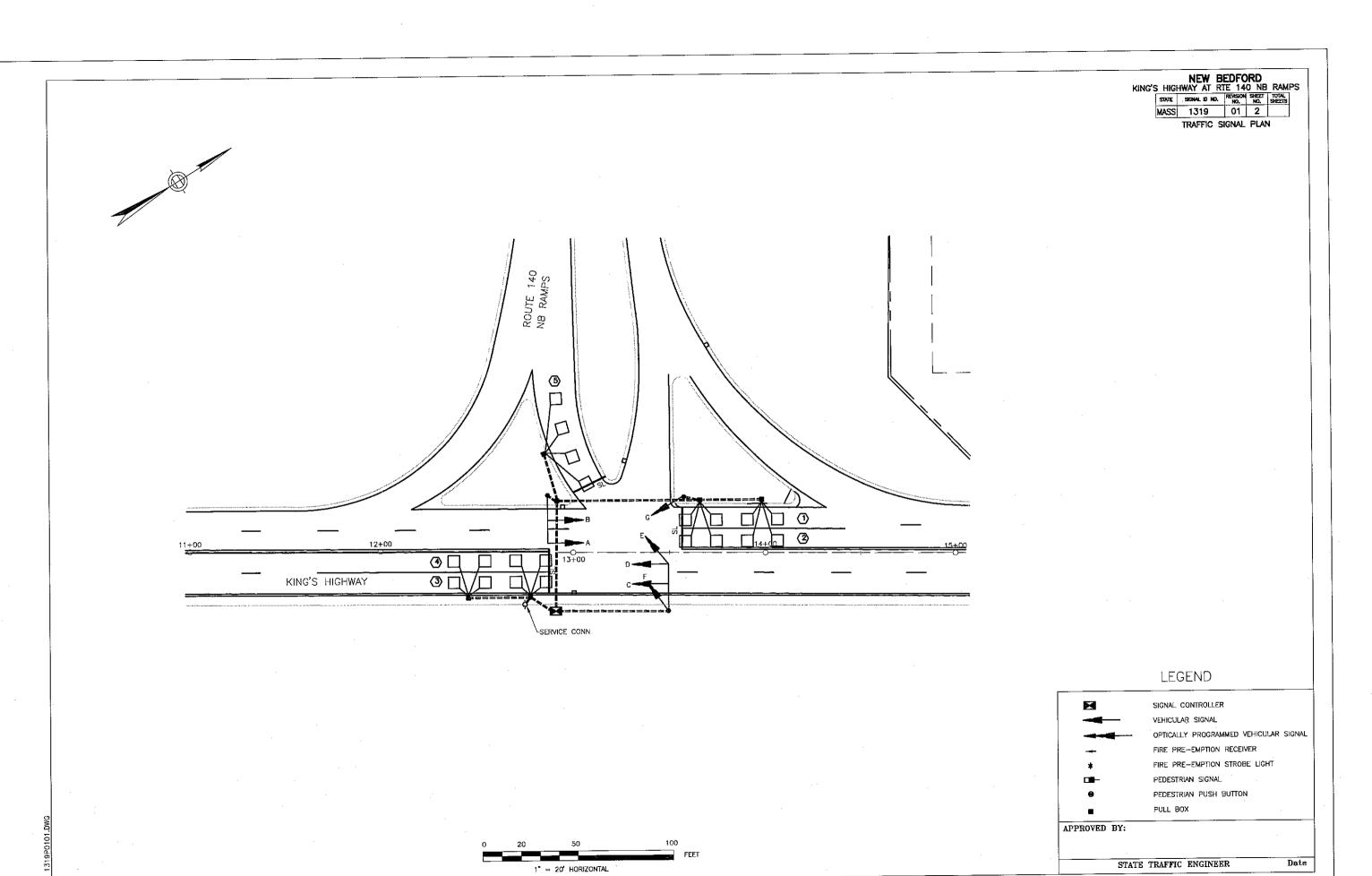
(h) Discontinuance: Signals may be discontinued at any time.
When this is done signal faces must be turned away from traffic, taken down or hooded, and the District Highway Engineer notified.

10 PARK PLAZA
BOSTON, MA 02116

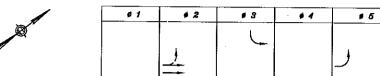
MASSACHUSETTS
HIGHWAY DEPARTMENT

APPROVED BY:

STATE TRAFFIC ENGINEER Date



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QUANTITY	ITEM
1	CONTROLLER TYPE 8DW, CAB. & FDN.
<u> </u>	SERVICE CONNECTION (OVERHEAD)
1	10' SIGNAL POLE, BASE, & FDN.
2	MAST ARM ASSEMBLY, BASE, & FDN.
5	1 WAY, 3 SECTION SIGNAL HOUSING (12" LENS)
1	1 WAY, 5 SECTION SIGNAL HOUSING (12" LENS)
1	2 WAY, 3&5 SECTION SIGNAL HOUSING (12" LEN
3	LOOP DETECTOR AMPLIFIER (DUAL CHANNEL)
20	ROADWAY LOOP DETECTOR
6	12" x 12" PULL BOX
	<u></u>

material and equipment to complete the Installation.

NEW BEDFORD KING'S HIGHWAY AT RTE 140 NB RAMPS STATE SIGNAL ID NO. REMISION SHEET TOTAL NO. HACK SHEETS MASS 1319 01 3

TRAFFIC SIGNAL DATA

NOTES:

SEQUENCE AND TIMING NOTES:

1 Ø1, Ø4 , Ø7 AND Ø8 NOT USED.

NEMA DUAL RING PHASING NOTES:

- 1. PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.
- 2. PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
- 3. THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
- 4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

LOOP DETECTOR NOTES:

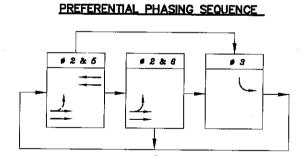
- SEE LOOP DETECTOR DETAIL SHEET FROM DESIGN DOCUMENT FOR SPLICE PATTERN AND OTHER INFORMATION.
- 2. DELAY AND EXTENSION TIMES ARE IN SECONDS.
- 3. DELAY TIME SHALL BE EFFECTIVE ONLY DURING THE RED PORTION OF THE PHASE THAT IS CALLED BY THE DETECTOR

COORDINATION DATA (ALL ENTRIES IN SECONDS)

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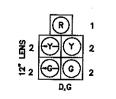
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LOOP DETECTOR DATA

DETECTOR NUMBER	NUMBER OF SEGMENTS	LOOP SIZE	NUM. OF TURNS	CALLED	EXT.	MODE PULSE PRESENCE	DELAY	EXT.
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2	4	6'X6'		ø6	ø6	PRESENCE		
3	4	6,X6,		#2	ø 2	PRESENCE		
4	4	6'X6'		ø 2&5	ø2&5	PRESENCE		
⑤	4	6,X6,		# 3	ø3	PRESENCE		
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SIGNAL IDENTIFICATION

2: INCANDESCENT 3: FIBEROPTIC



CONTROLLER MAKE & MODEL:	EPAC 300
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METER No. 97-028-673 (7526	5257)

APPROVED BY:

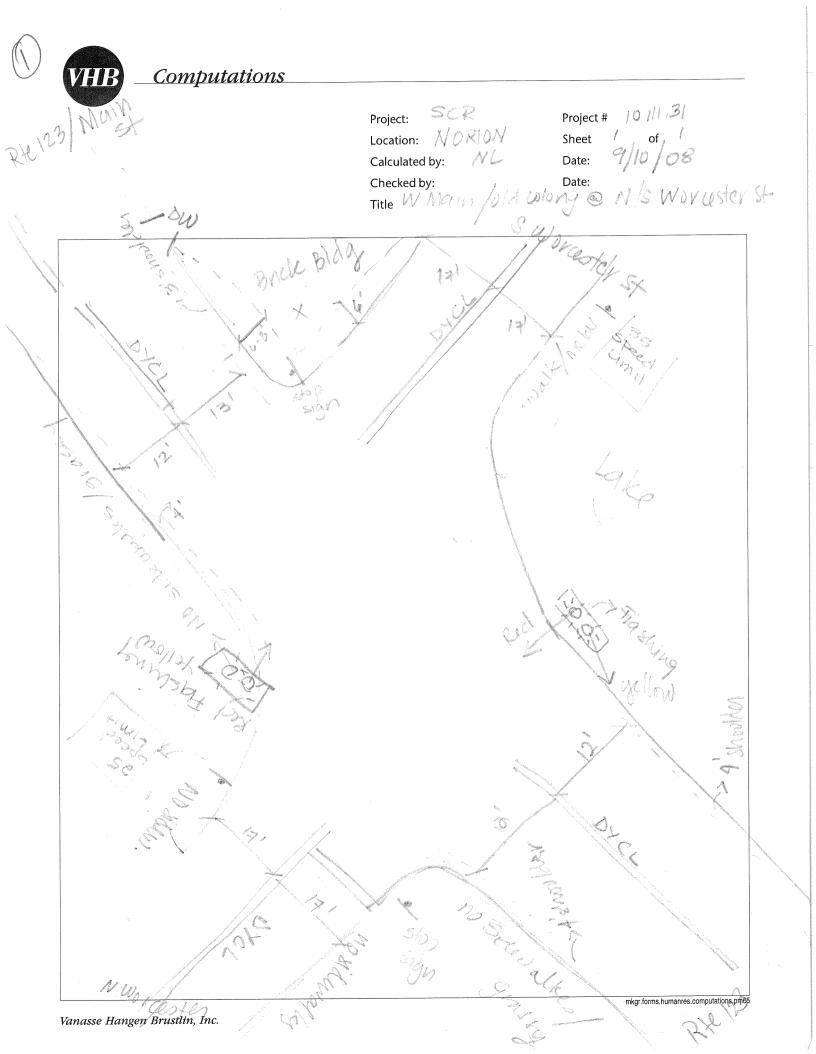
STATE TRAFFIC ENGINEER

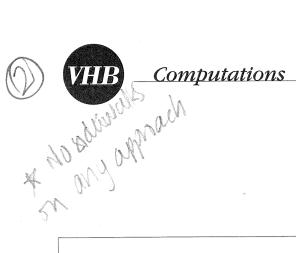
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NEMA DUAL RING PHASING NOTES:

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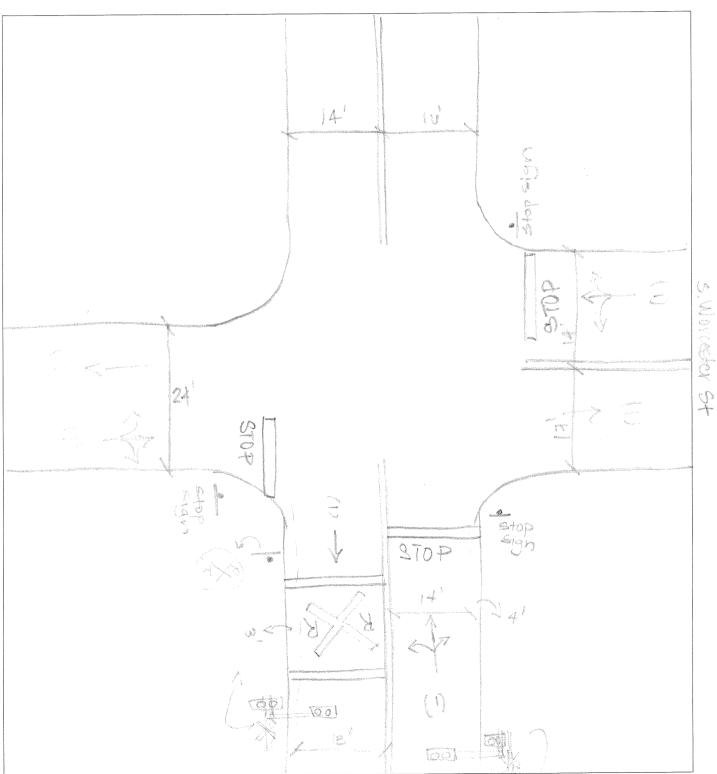
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Vanasse Hangen Brustlin, Inc.

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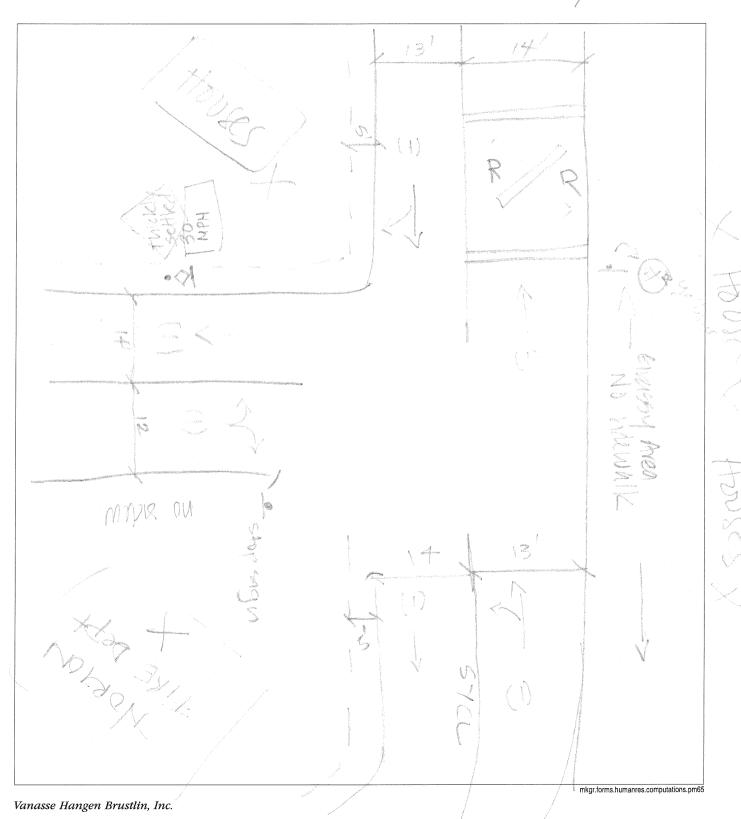
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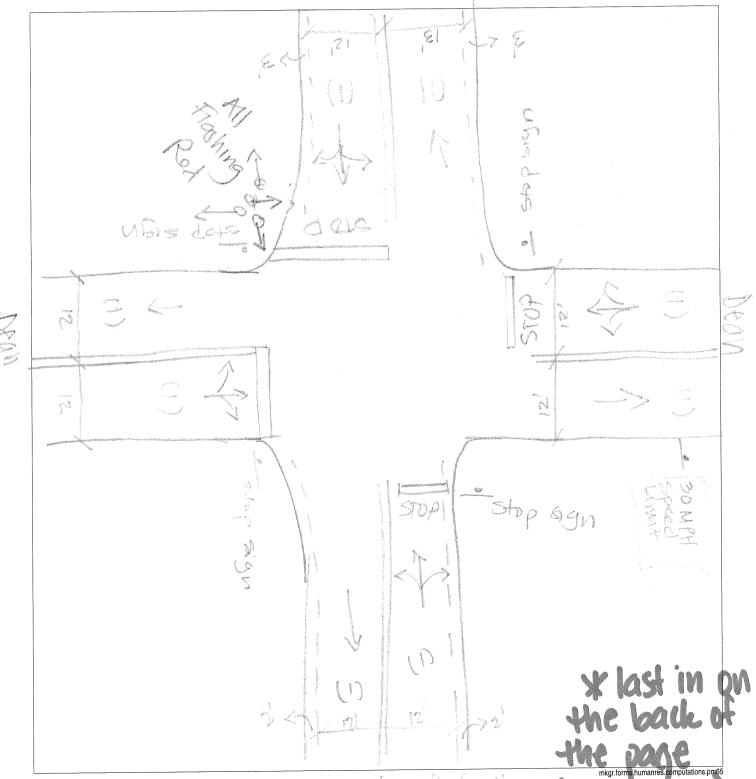
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Vanasse Hangen Brustlin, Inc.

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Rt 138 NB-L

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pictures; 47 -52 VIIB Computations * offset intersection SCR Project: C. Location: Raynam Project: Project # | | | | | | | | | | | | | | | | Sheet 9-17-08 Date: Checked by: Date: Title RK 138/3 madways at Britton St Rt 138 Residential Area 15 w 12 (NA 3 DU Stab showher 7' Shoolder 12 Vanasse Hangen Brustlin, Inc. PHE 138 mkgr.forms.computation.indd

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Vanasse Hangen Brustlin, Inc.

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Vanasse Hangen Brustlin, Inc.		



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THE COMMONWEALTH OF MASSACHUSETTS MASSACHUSETTS HIGHWAY DEPARTMENT

TRAFFIC SIGNAL LAYOUT PLAN AND PERMIT BROADWAY (ROUTE 138) AT ELM STREET

IN THE TOWN OF

RAYNHAM BRISTOL COUNTY

BRIDGE ST LOCATION NO. 1338 ROUTE 495 NB LOCUS MAP

(SCALE AS SHOWN)

Under authority of Chapter 89, Sec. 8 General Laws, Tercentenary Edition, the Massachusetts Highway Department hereby approves the following described traffic control signal installation, and auxiliary signs and surface markings, for the above location, provided that a permit for the opening of the raad and the placing of structures thereon shall be received from the board or officer in charge of the raad charge of the road.

This permit is gronted for the specific signal installation described herein and for its operation in accordance with the conditions set forth below and with the requirements of the Massachusetts Highway Department. The details far any or the Massachusetts righway beparament. The actors material alterations or any continued or substantial departure from the provisions of this permit must be submitted to the department for approval with data sufficient to justify such modification. Failure ta comply with these requirements automatically voids this permit during such time as non-compliance exists.

1 STANDARDS OF INSTALLATION

The traffic control signal installation and all auxiliary signs and surface markings which are used in connection with such installation shall conform with the requirements of the Massachusetts Highway Department and with the sketch which is attached.

II OPERATION OF SIGNALS

(a) Type of control: AUTOMATIC Coordination: NONE Special connection: NONE Timing for automatic operation: SEE SHEET NO 3 Hours for Automatic Operation: SEE SHEET NO. 3

Hours for Automatic Operation: CONTINUOUS

Signals may be operated automatically for a shorter period of time but not for a greater length of time than is here indicated except when unusual conditions arise which temporarily justify longer operation.

(f) Flashing Operation: Whenever a signal is not operating as a control device (stop and go), it must Flash Yellow or Flash Red as set forth in the signal sequence and at the rate of 50–60 flashes per minute unless otherwise specified in Part II(e) of this Permit.

(g) Manual Operation: Signals may be operated manually at any time irrespective of the hours designated in Part II(3) of this permit

(h) Discontinuance: Signals may be discontinued at any time. When this ie done signal faces must be turned away from traffic, taken down or hooded, and the District Highway Engineer notified

HOR SCALE IN FEET

MASS	IGHWAY

RAYNHAM RTE. 138 AT ELM STREET STATE SIGNAL ID NO. REVISION SHEET TOTAL NO. NO. SHEETS

> 01 1 TITLE SHEET

MASS 1338

10 PARK PLAZA BOSTON, MA 02116 MASSACHUSETTS

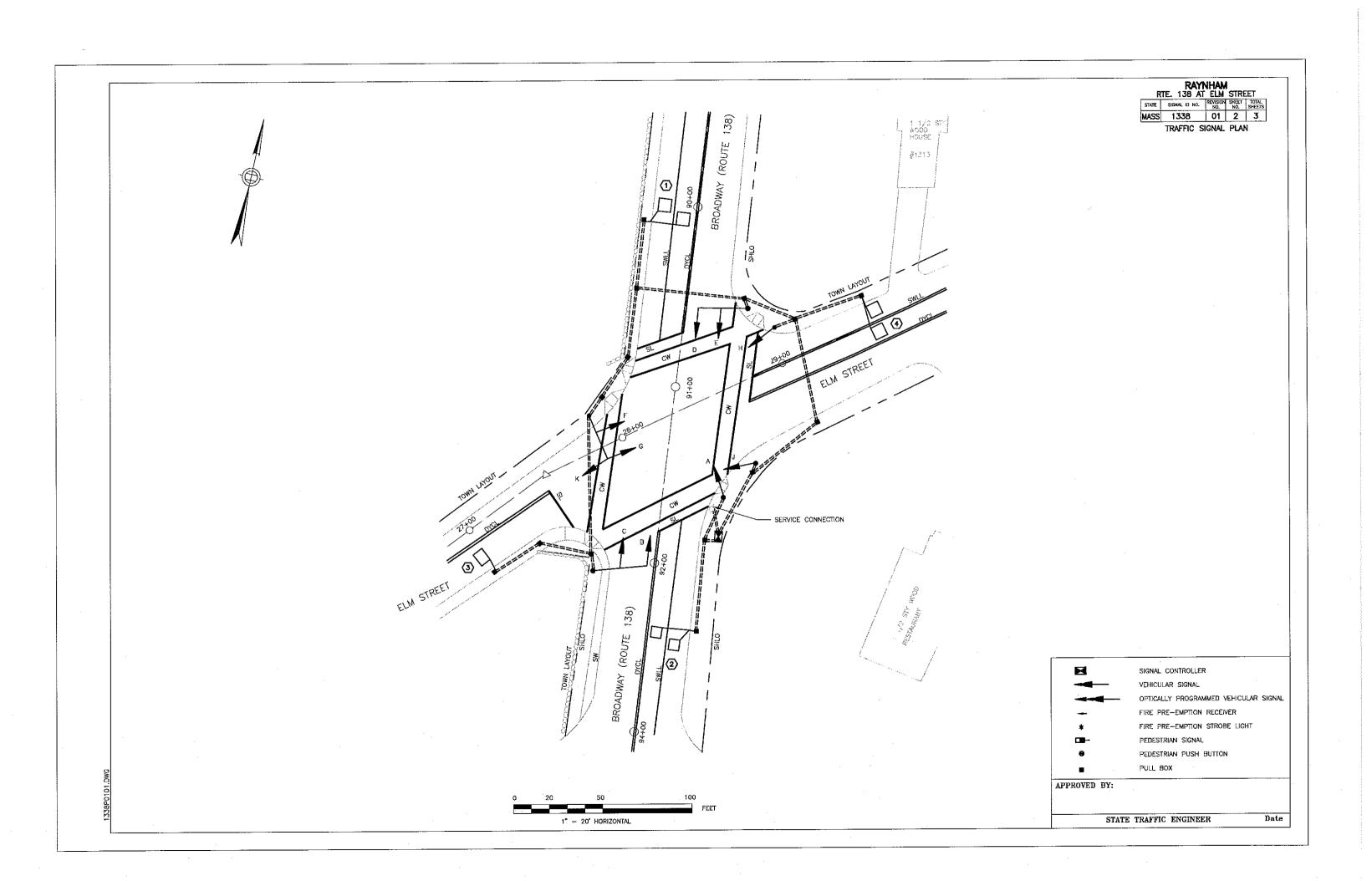
HIGHWAY DEPARTMENT

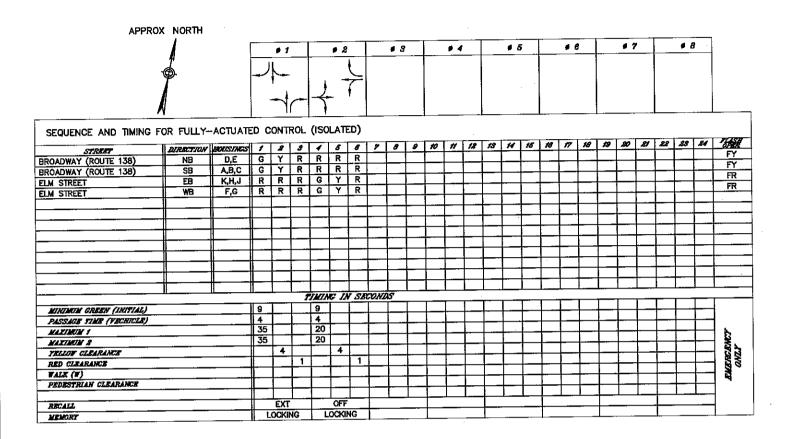
APPROVED BY:

STATE TRAFFIC ENGINEER

Date

REVISION NO. - 01 DATE: 12-12-01 INSERT BY: J.C.CONNOR FILE NAME: 1338T0101.DWG





	MAJOR ITEMS REQUIRED
QUANTITY	ITEM
1	CONTROLLER TYPE 8DW, CAB. & FDN.
1	SERVICE CONNECTION (OVERHEAD)
3	10' SIGNAL POLE, BASE, & FDN.
1	25" MAST ARM ASSEMBLY, BASE, & FDN.
2	30' MAST ARM ASSEMBLY, BASE, & FDN.
8	1 WAY, 3 SECTION, SIGNAL HOUSING (12" LENS)
1	2 WAY, 3 SECTION SIGNAL HOUSING (12" LENS)
7	ROADWAY LOOP DETECTOR
14	12" x 12" PULL BOX
	Necessary duct, cable, labor, miscellaneous
	material and equipment to complete the installation.

RAYNHAM RTE. 138 AT ELM STREET STATE SIGNAL ID NO. FEMSION SHEET TOTAL NO. NO. SHEETS MASS 1338 01 3 TRAFFIC SIGNAL DATA

NOTES:

SEQUENCE AND TIMING NOTES:

1. \$4, \$5, \$6, \$7 AND \$8 NOT USED.

NEMA DUAL RING PHASING NOTES:

- 1. PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.
- PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
- 3. THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
- 4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

LOOP DETECTOR NOTES:

- 1. SEE LOOP DETECTOR DETAIL SHEET FROM DESIGN DOCUMENT FOR SPLICE PATTERN AND OTHER INFORMATION.
- 2. DELAY AND EXTENSION TIMES ARE IN SECONDS.
- 3. DELAY TIME SHALL BE EFFECTIVE ONLY DURING THE RED PORTION OF THE PHASE THAT IS CALLED BY THE DETECTOR.

DETECTOR NUMBER	NUMBER OF SEGMENTS	LOOP SIZE	NUM. OF TURNS	CALLED	g EXT.	MODE PULSE PRESENCE	DELAY TIME	EXT. TIME
0	2	6'X6'		ø 1	ø1	PRESENCE		
2	2	6'X6'		# 1	ø1	PRESENCE		
3	1	6'X9'		#2	ø2	PRESENCE		
•	2	6'X6'		#2	ø 2	PRESENCE		

LOOP DETECTOR DATA

SIGNAL IDENTIFICATION

2: INCANDESCENT 3: FIBEROPTIC 1: LED

®

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	ALL	

CONTROLLER MAKE & MODEL: TCT	LMD
OTIENT CLE INC.	
METER No. 57-888-265 EMERGENCY PRE-EMPTION (TYPE):	NONE
APPROVED BY:	

STATE TRAFFIC ENGINEER

Date

NEMA DUAL RING PHASING NOTES:

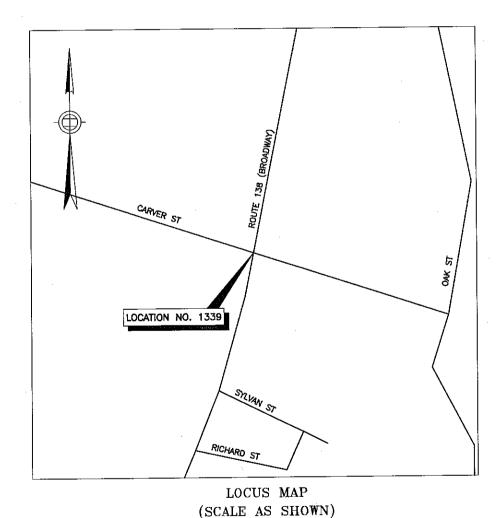
PREFERENTIAL PHASING SEQUENCE

THE COMMONWEALTH OF MASSACHUSETTS MASSACHUSETTS HIGHWAY DEPARTMENT

TRAFFIC SIGNAL LAYOUT PLAN AND PERMIT BROADWAY (ROUTE 138) AT CARVER STREET

IN THE TOWN OF

RAYNHAM BRISTOL COUNTY



HOR. SCALE IN FEET

Under authority of Chapter 89, Sec. 8 General Laws, Tercentenary Edition, the Massachusetts Highway Department hereby approves the following described traffic control signal installation, and auxiliary signs and surface and rakings, for the above location, provided that a permit for the opening of the road and the placing of structures thereon shall be received from the board or officer in charge of the road.

This permit is granted for the specific signal installation described herein and for its operation in accordance with the conditions set forth below and with the requirements of the Massachusetts Highway Department. The details for any material afterations or any continued or substantial departure from the provisions of this permit must be submitted to the department for approval with data sufficient to justify such modification. Failure to comply with these requirements automatically voids this permit during such time as non-compliance exists.

I. STANDARDS OF INSTALLATION

The traffic control signal installation and all auxiliary signs and surface markings which are used in connection with such installation shall conform with the requirements of the Massachusetts Highway Department and with the sketch which is attached.

II. OPERATION OF SIGNALS

(a) Type of control:

(b) Coordination:

(c) Special connection:

(d) Timing for automatic operation:

Signals may be operated automatically for a shorter period of time but not for a greater length of time than is here indicated except when unusual conditions arise which temporarily justify longer operation.

(c) Elegating Operation:

(d) Elegating Operation:

AUTOMATIC

NONE

NONE

CONTINUOUS

CONTINUOUS

Signals may be operated automatically for a shorter period of time but not for a greater length of time than is here indicated except when unusual conditions arise which

(f) Flashing Operation: Whenever a signal is not operating as a control device (etop and go), it must Flash Yellow or Flash Red as set forth in the signal sequence and at the rote of 50-60 flashes per minute unless otherwise specified in Part II(e) of this Permit.

(g) Manual Operation: Signals may be operated manually at any time irrespective of the hours designated in Part II(3) of this permit

(h) Discontinuance: Signals may be discontinued at any time.
When this is done signal faces must be turned away from traffic, taken down ar hooded, and the District Highway Engineer notified.

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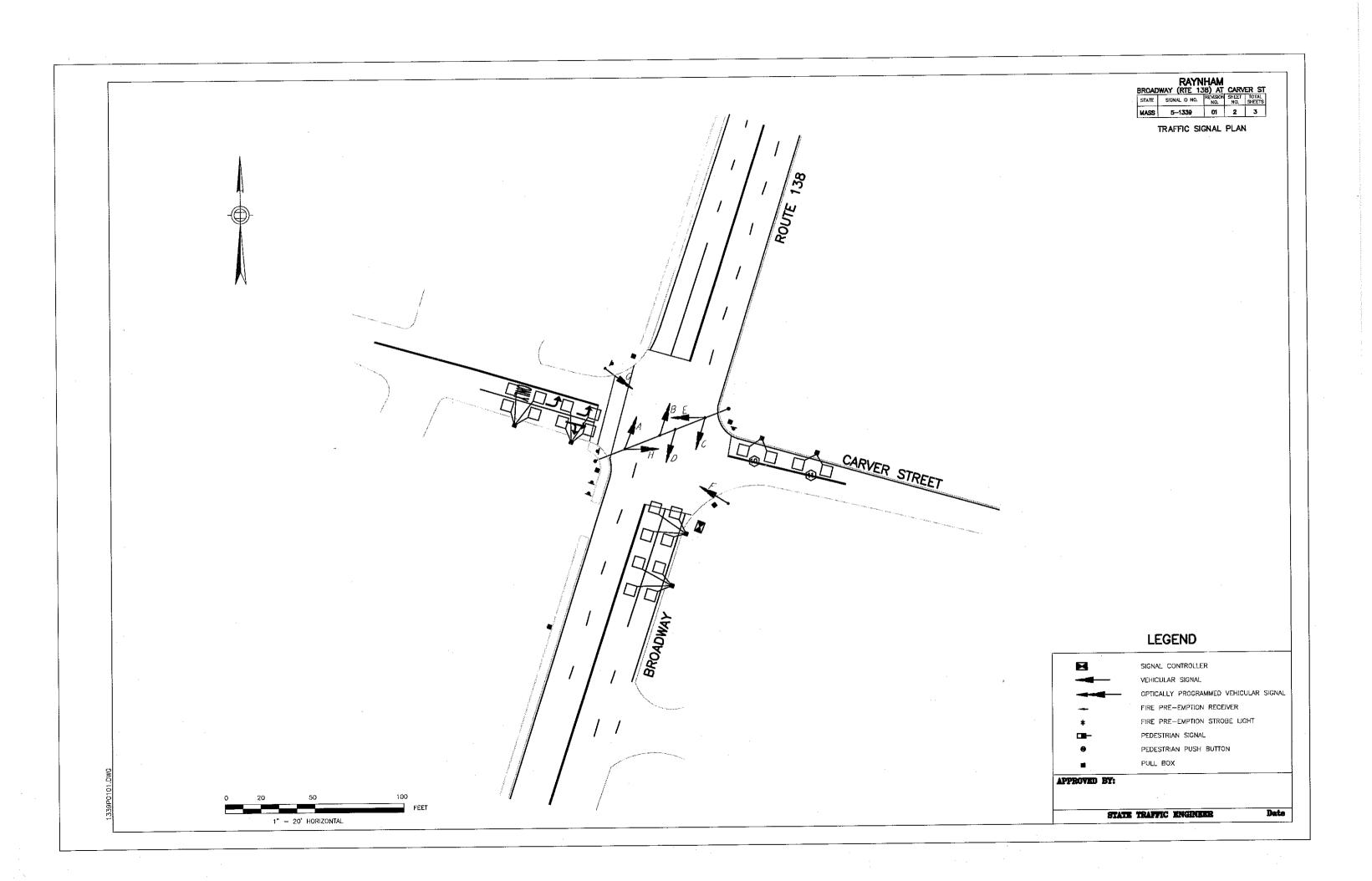
TITLE SHEET

10 PARK PLAZA BOSTON, MA 02116 MASSACHUSETTS HIGHWAY DEPARTMENT

APPROVED BY:

STATE TRAFFIC ENGINEER

Date



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QUANTITY	ITEM
1	CONTROLLER TYPE 8DW, CAB. & FDN.
1	SERVICE CONNECTION
1	SPANWIRE ASSEMBLY BASE & FDN. (85')
2	10' SIGNAL POLE, BASE, & FDN. (65)
3	3 SECTION SIGNAL HOUSING (12" LENS)
2	2 WAY, 3 SECTION SIGNAL HOUSING (12" LENS)
1	5 SECTION SIGNAL HOUSING (12" LENS)
6	LOOP DETECTOR AMPLIFIER
20	ROADWAY LOOP DETECTOR
10	12" x 12" PULL BOX
. 10	12 X 12 PULL BUX
	-
	Necessary duct, cable, labor, miscellaneous
	material and equipment to complete the installation

LOOP DETECTOR DATA

DETECTOR NUMBER	NUNBER OF SEGMENTS	LOOP SIZE	NUM. OF TURNS	CALLED	ext.	MODE PULSE PRESENCE	DELAY TIME	EXT. TIME
0				ø8	ø6	PRESENCE		
2				ø6	ø6	PRESENCE		
3				ø6	ø6	PRESENCE		
4				ø6	ø6	PRESENCE		
(5)				ø2	ø 2	PRESENCE		
6	SEE	FIELD NO	TES	ø 2	ø 2	PRESENCE		
Ø				68	ø8	PRESENCE	·	
8				ø8	ø8	PRESENCE		
(8)				ø8	#8	PRESENCE		
(ø 4	ø4	PRESENCE		
11)				ø4	ø 4	PRESENCE		
(2)				ø1	ø1	PRESENCE		

NOTES:

SEQUENCE AND TIMING NOTES:

1. 43, 45, 47 NOT USED.

NEMA DUAL RING PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.

TRAFFIC SIGNAL DATA

- 2. PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
- 3. THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
- 4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

LOOP DETECTOR NOTES:

- SEE LOOP DETECTOR DETAIL SHEET FROM DESIGN DOCUMENT FOR SPLICE PATTERN AND OTHER INFORMATION.
- 2. DELAY AND EXTENSION TIMES ARE IN SECONDS.
- 3. DELAY TIME SHALL BE EFFECTIVE ONLY DURING THE RED PORTION OF THE PHASE THAT IS CALLED BY THE DETECTOR.
- FIELD NOTES: 1. LOOP DETECTORS NOT VISIBLE DURING THE FIELD INSPECTION.

DETECTOR NUMBER	NUNBER OF SEGMENTS	LOOP SIZE	NUM. OF TURNS	CALLED	EXT.	MODE PULSE PRESENCE	DELAY TIME	EXT. TIME
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2				ø6	ø6	PRESENCE		
3				ø6	ø6	PRESENCE		
•				ø6	ø6	PRESENCE		
(5)				ø2	ø2	PRESENCE		
6	SEE	FIELD NO	TES	ø 2	#2	PRESENCE		
②				84	80	PRESENCE		
8				Sø Sø	Ø	PRESENCE		
9				#8	ø8	PRESENCE		
(9)				ø4	ø4	PRESENCE		
(1)				ø4	ø4	PRESENCE		
(3				ø1	ø1	PRESENCE		

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NEMA DUAL RING PHASING NOTES:

PREFERENTIAL PHASING SEQUENCE

1288

4 & 8

1 & 8

SIGNAL IDENTIFICATION

1: LED

2: INCANDESCENT 3: FIBEROPTIC

CONTROLLER MAKE & MODEL: PEEK 3000E
UTILITY POLE No. TMLP #179
METER No. 79-031-110
EMERGENCY PRE-EMPTION (TYPE): NONE

APPROVED BY:

STATE TRAFFIC ENGINEER

Date

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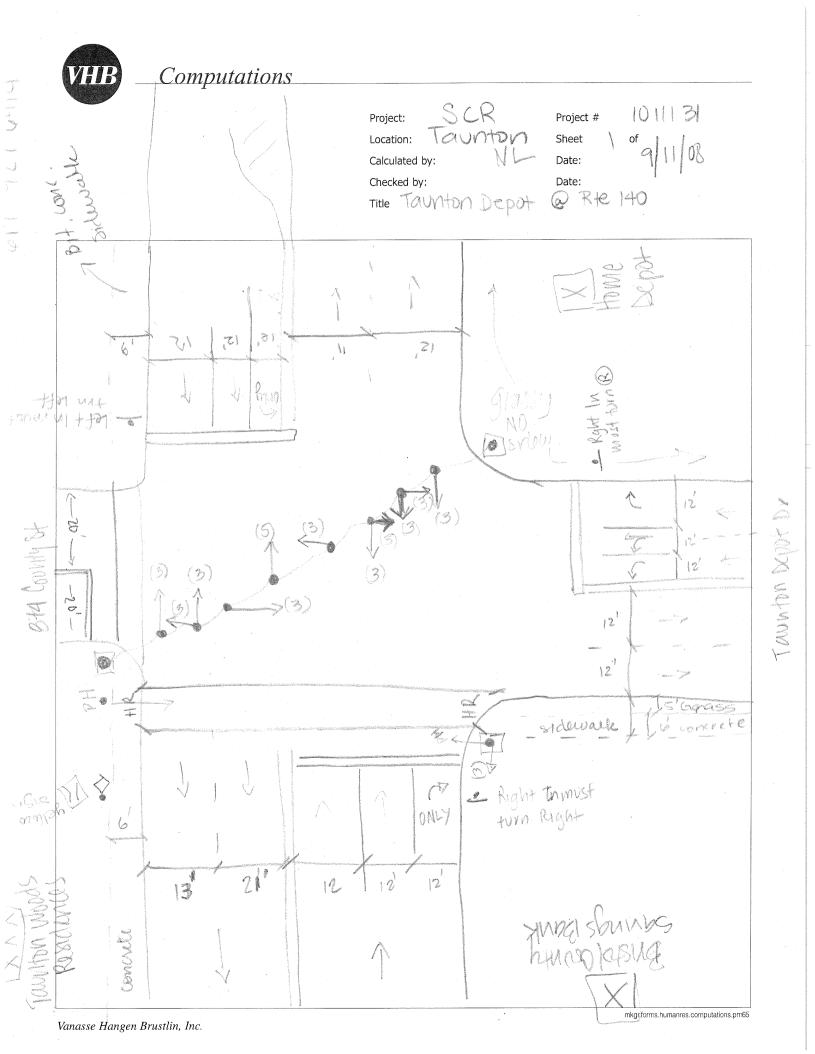
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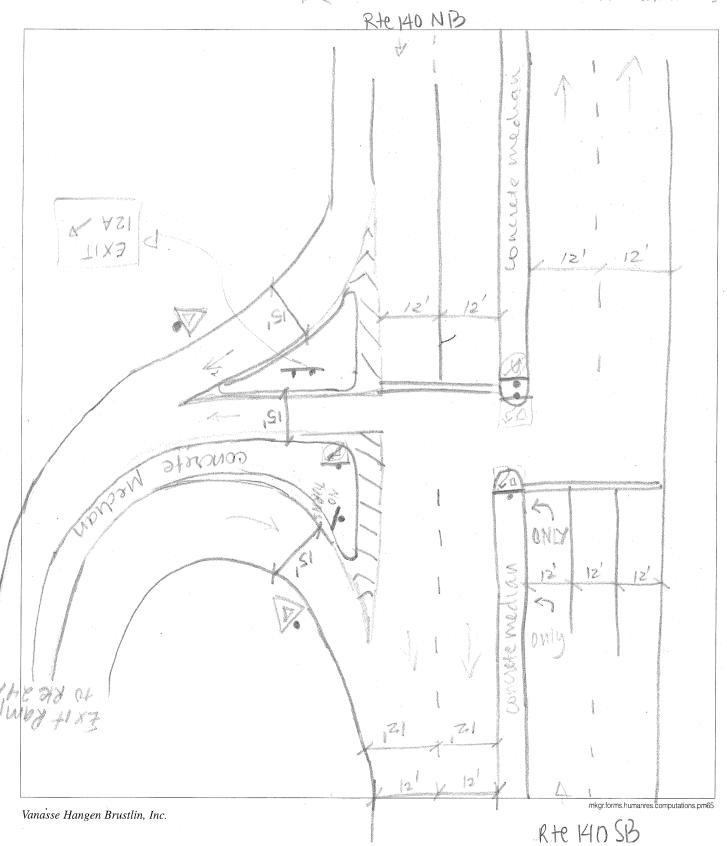
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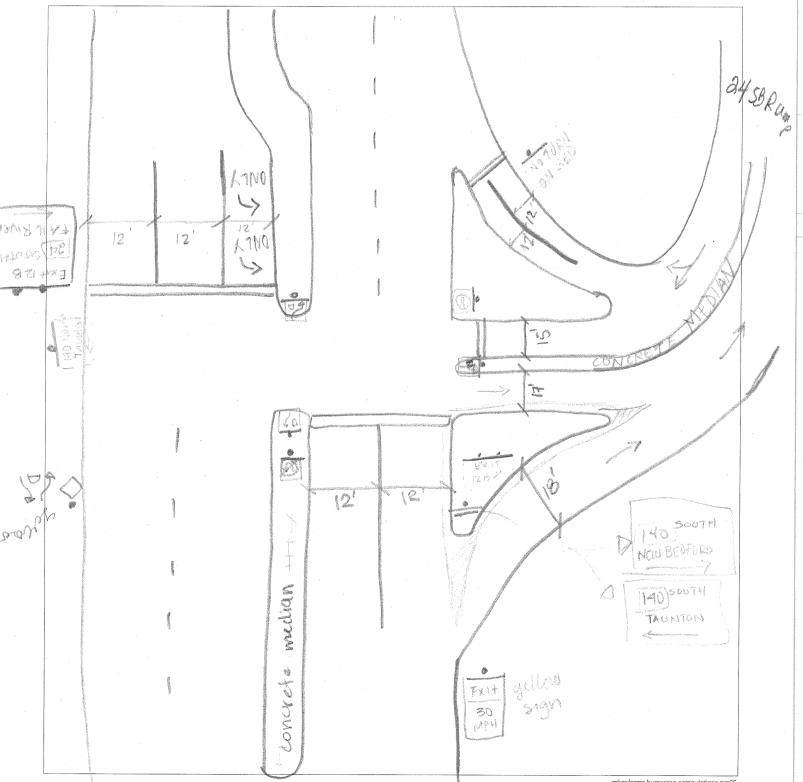
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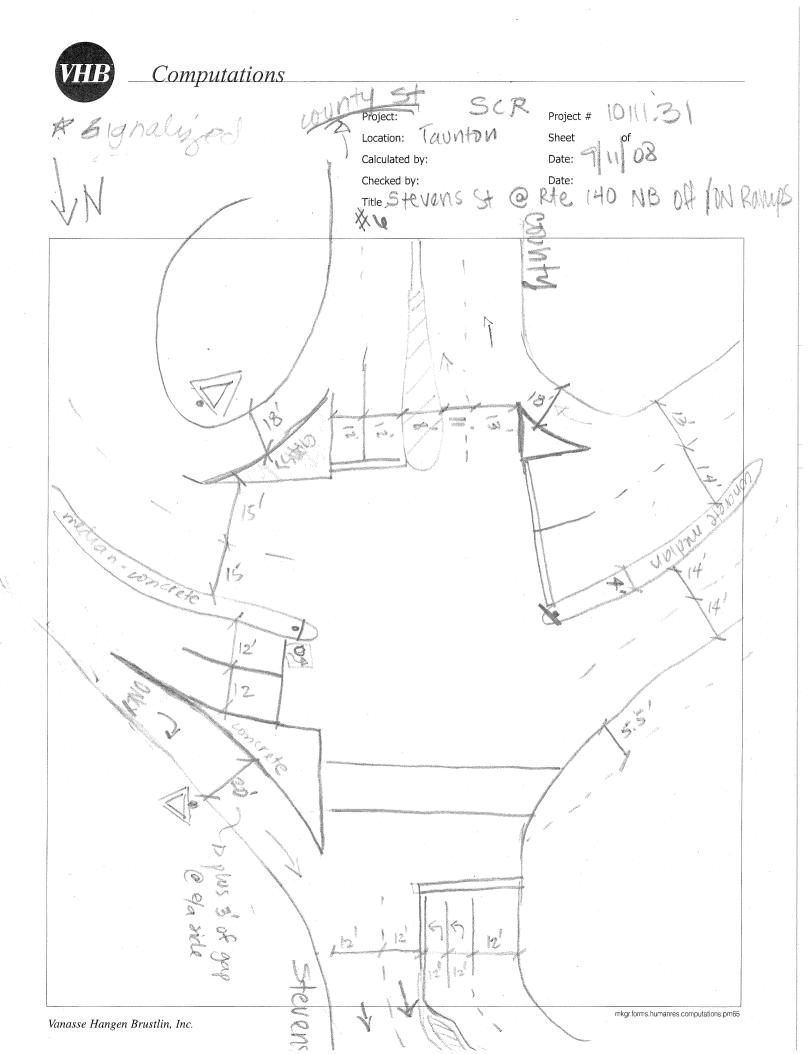
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Vanasse Hangen Brustlin, Inc.

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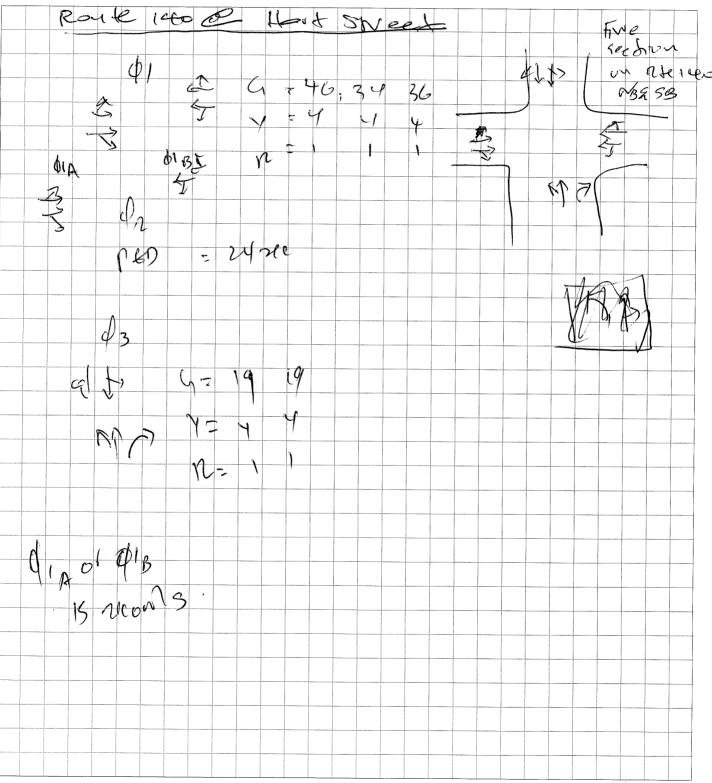
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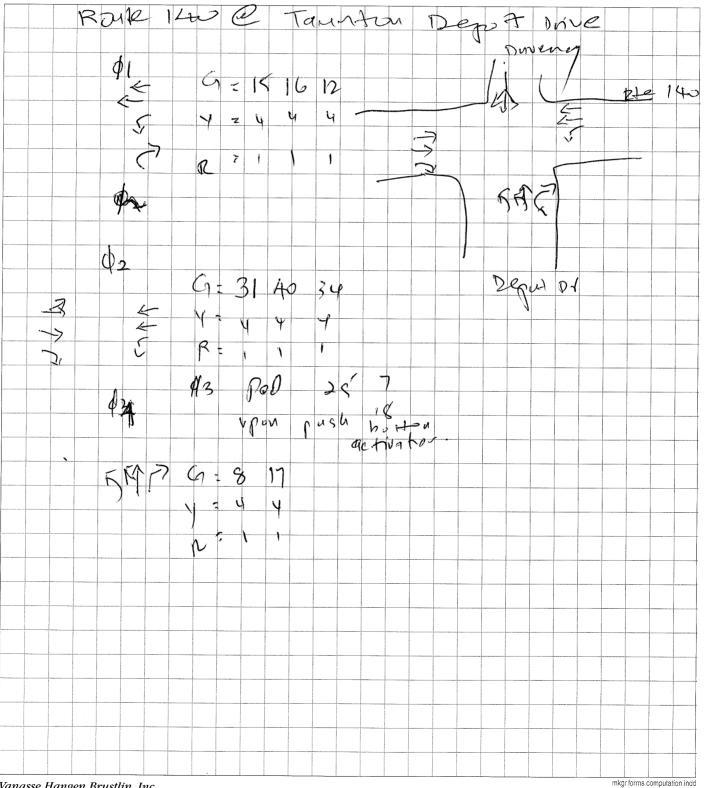


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Vanasse Hangen Brustlin, Inc.

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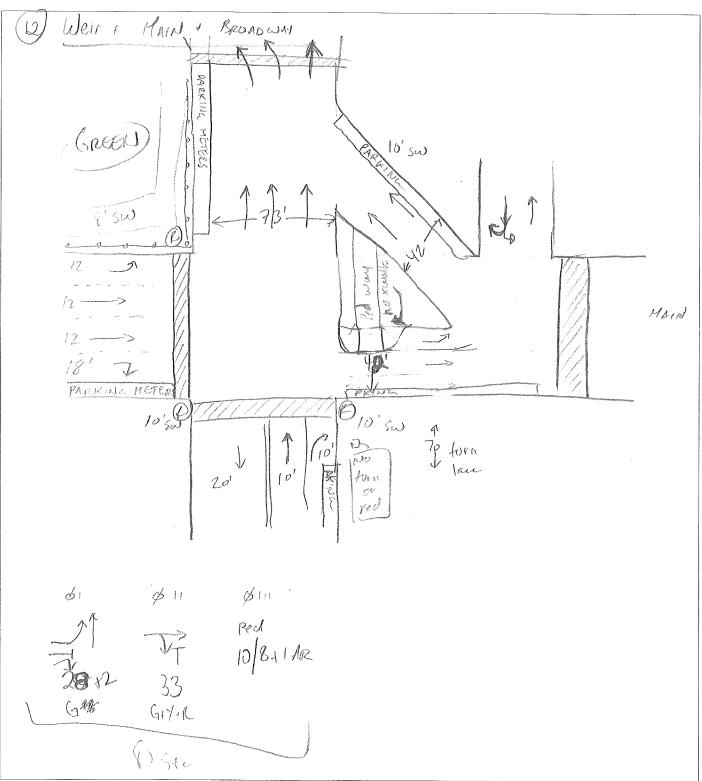
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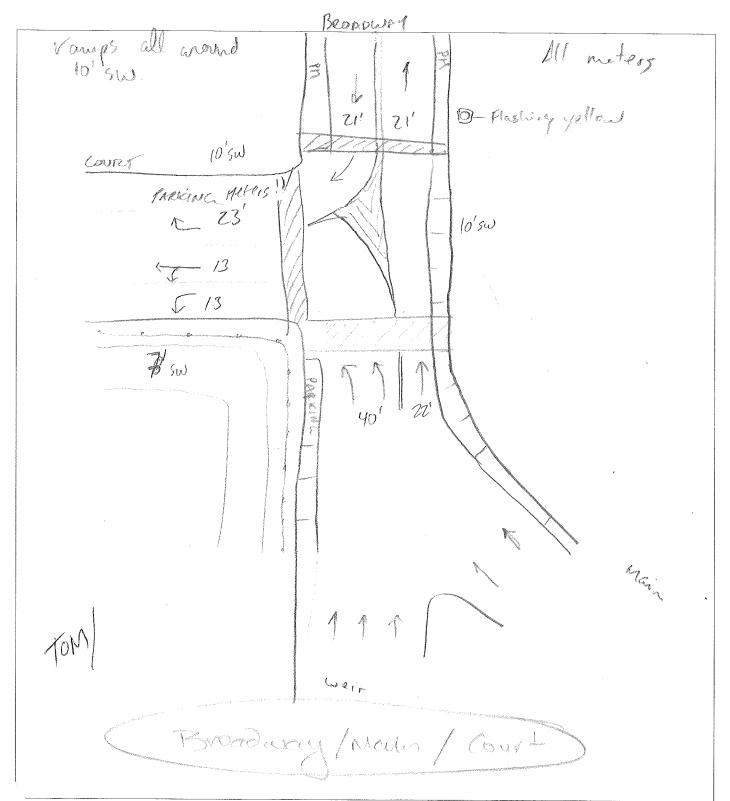
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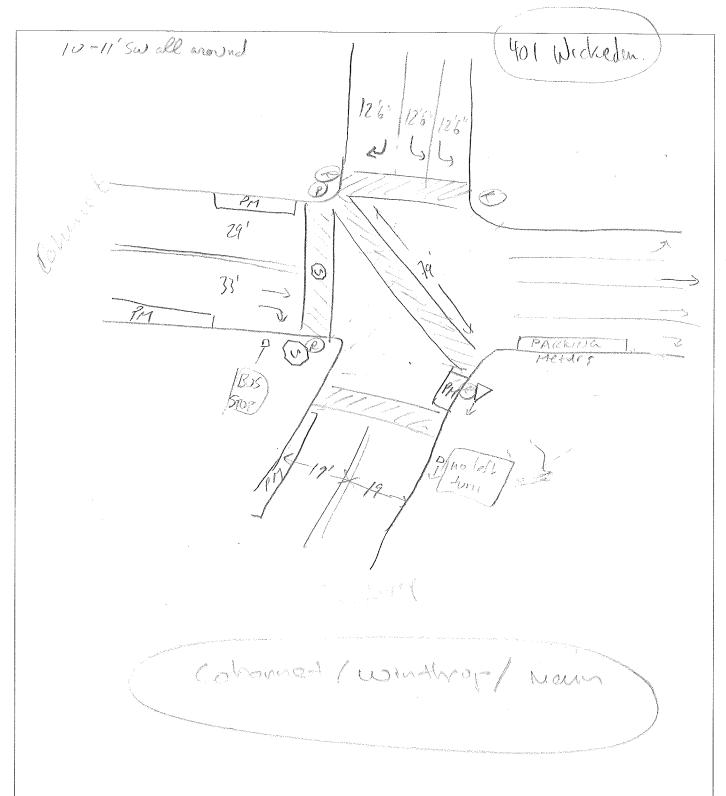
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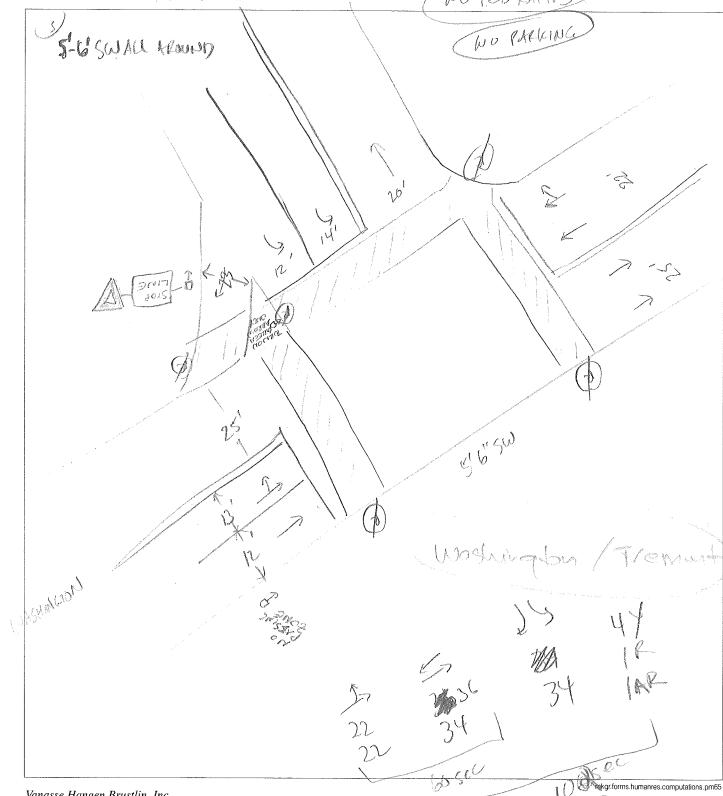
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Vanasse Hangen Brustlin, Inc.



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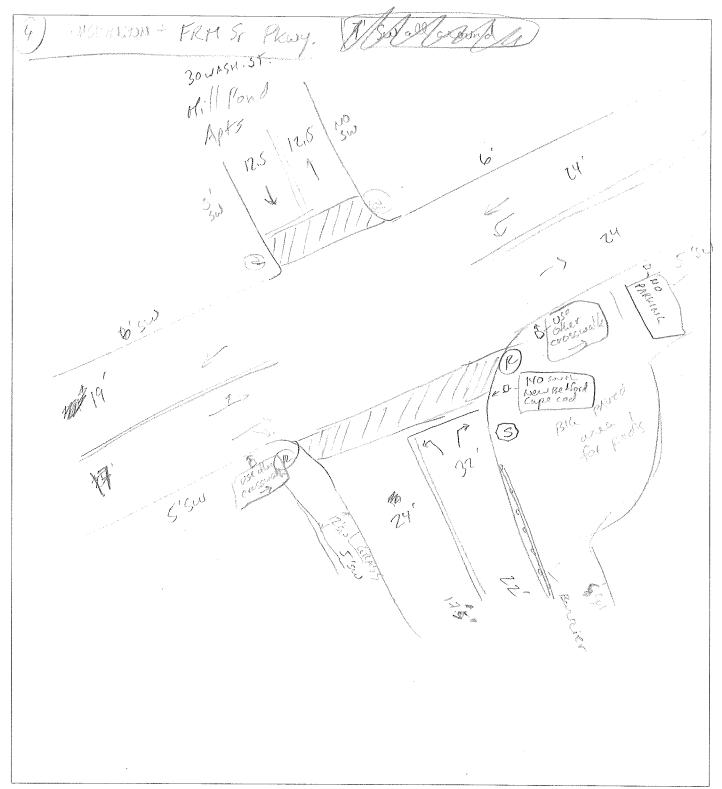
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Project # 10171-31 Project: SER Sheet of Date: 9/11/08 Location: Calculated by: RNR Checked by: Date: He 140/Hon Gardan 7 W juf PED 7 FOW 16 20 Ch



Dean St Rie 44 Station

CFE center for Ed.

& but skewed

* signatized w. ped phase * push button (thin little one)

Project:

SCR

Project # Sheet 10111

Calculated by:

Location:

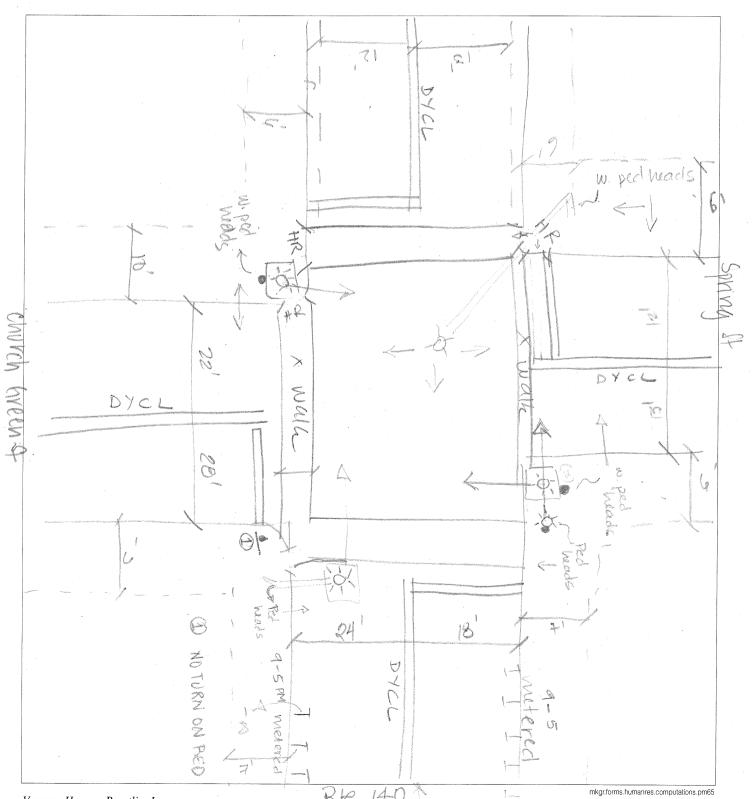
TAUNTON

Date: 9 11 0

Checked by:

Date:

Title Spring St/Church Green St @ Summer St







Sign of heads

* mastarms include ped heads

Project: 5GP

Project # 1011.31

Location: Taunton

11

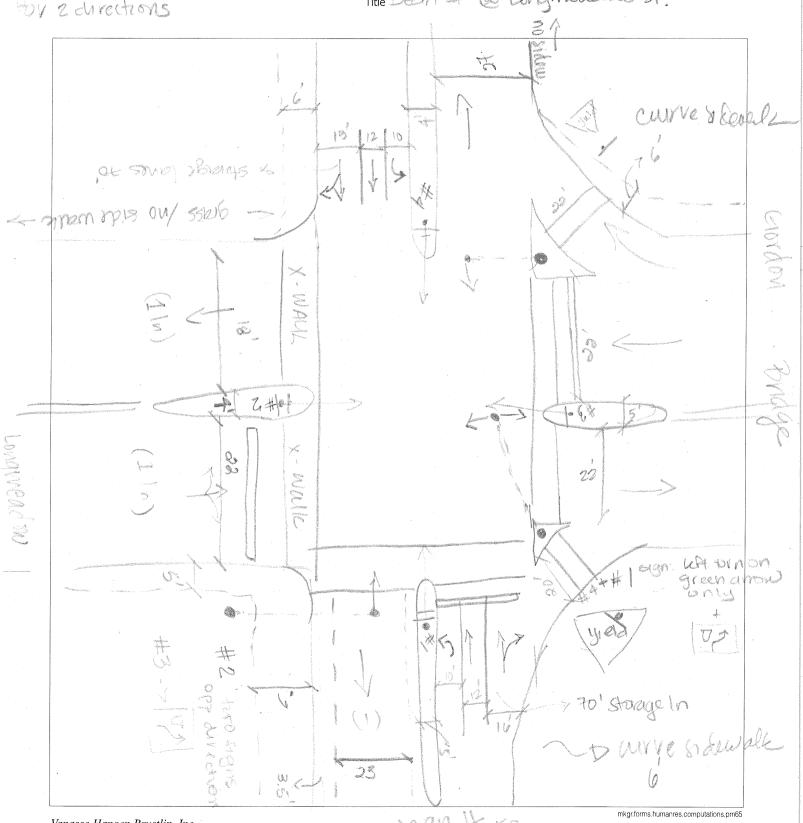
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Date:

Title Dean St @ Longmeadow St.



Vanasse Hangen Brustlin, Inc.

DRAN IF ED

Computations RI-1 = stop sign SCR Rle -1 = Oneway 1011.31 Project: Project # RI-2= yield TAUMTON Sheet Location: 9/11/08 Date: Calculated by: Checked by: Date: Cape Rd @ Rt 104 Title 83-7L = left " CAPERD * semilact * ped wads 12 mkgr.forms.humanres.computations.pm65 Vanasse Hangen Brustlin, Inc.





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10111.31

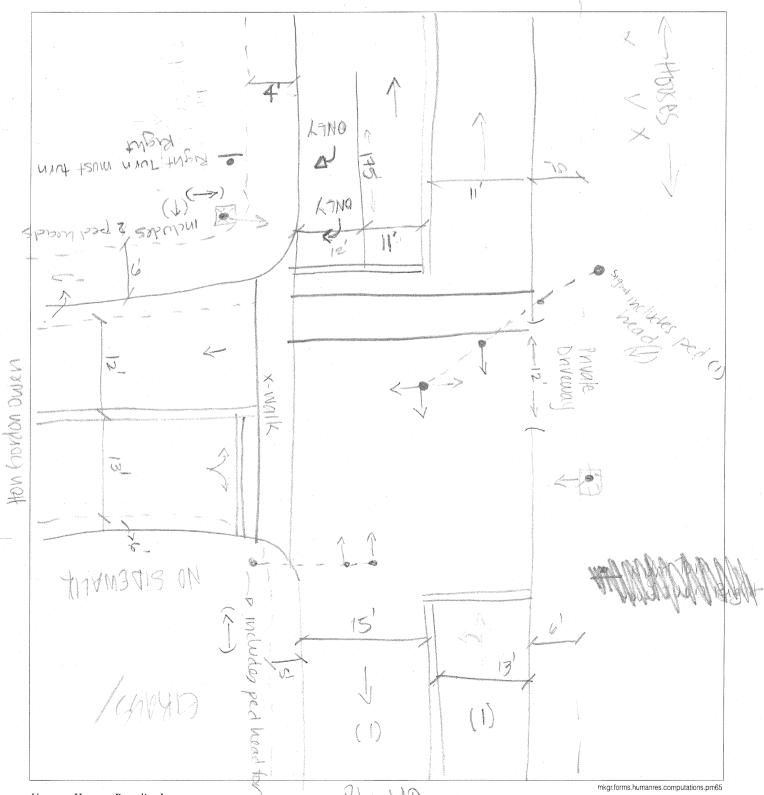
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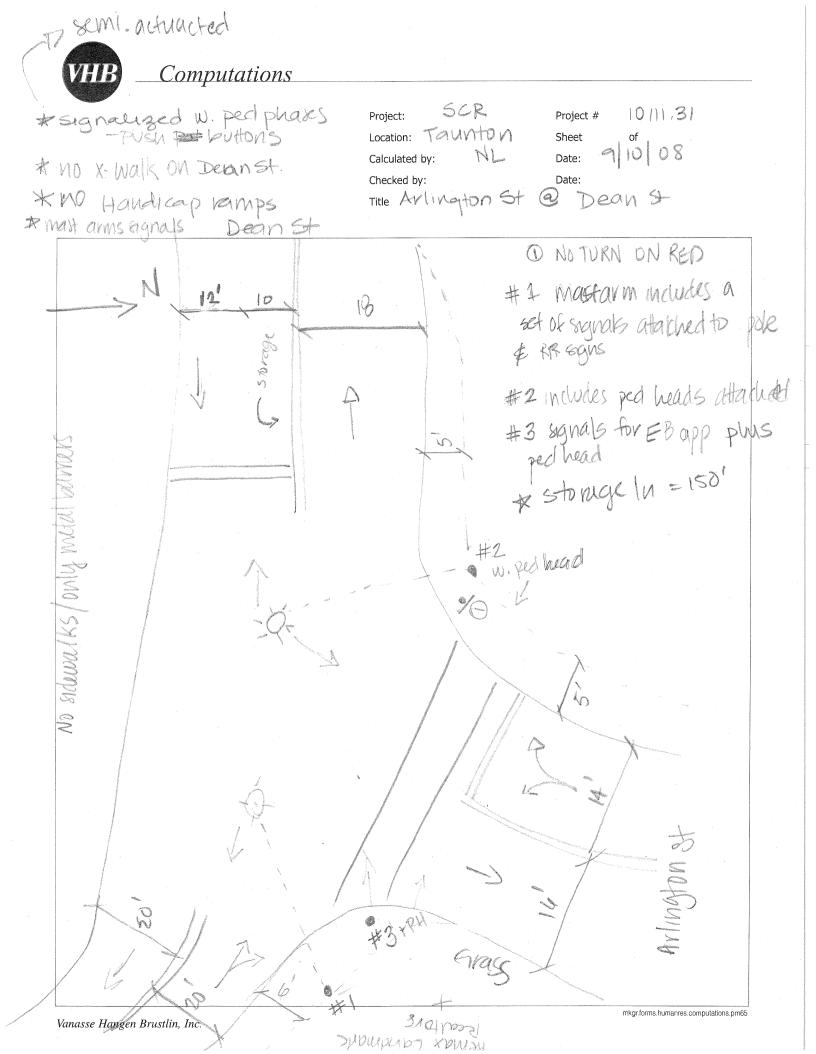
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Vanasse Hangen Brustlin, Inc.





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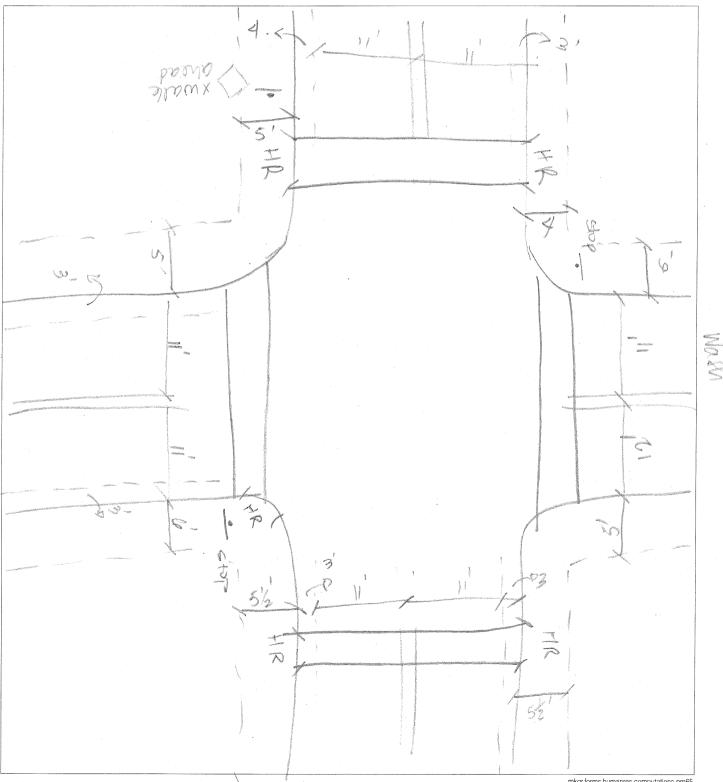
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Purchax St



Vanasse Hangen Brustlin, Inc.

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SCR Project Tavnon, MA Sheet 10111.31 * Flashing signed overhead

Red for school st

Yellow for Arlington/ Project # Project: Location:

Calculated by:

Checked by: Title School ST @ Arlington/Purchase St Porchast Priva haze st

Vanasse Hangen Brustlin, Inc.

School St

Arlington St

mkgr.forms.humanres.computations.pm65

Project:

SCA

Project #

011.3

Location:

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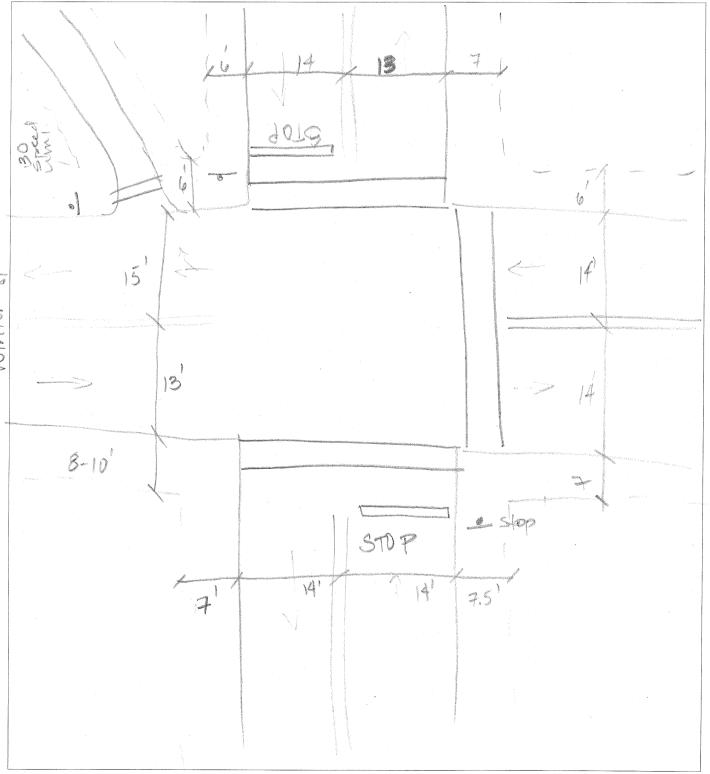
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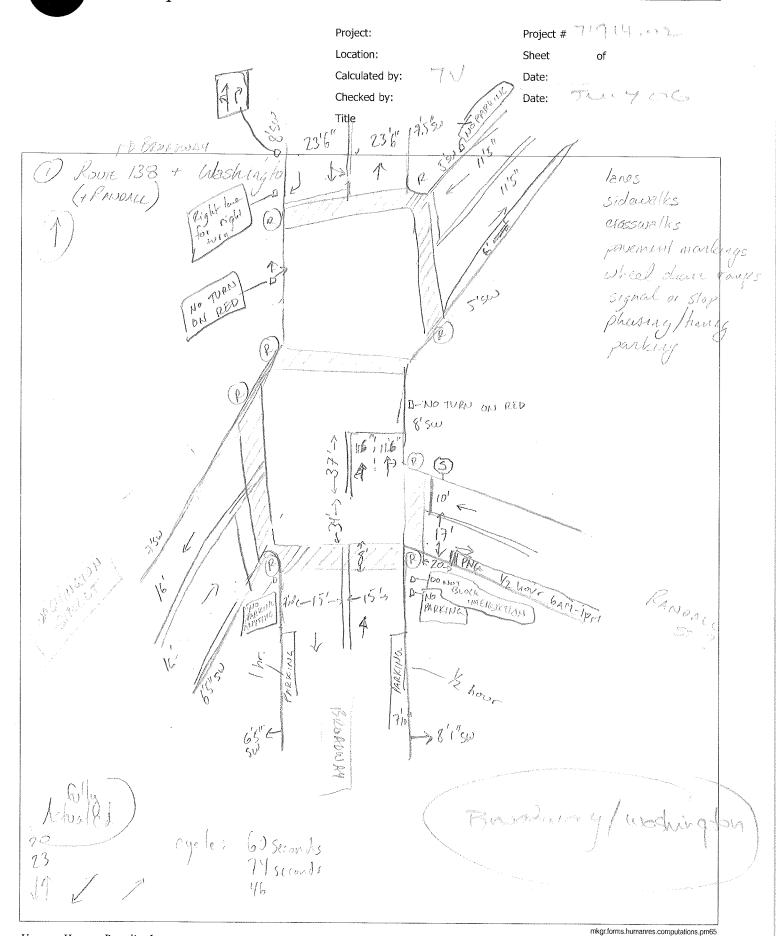
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WINTER St @ School St

School

Title





Project:

Location:

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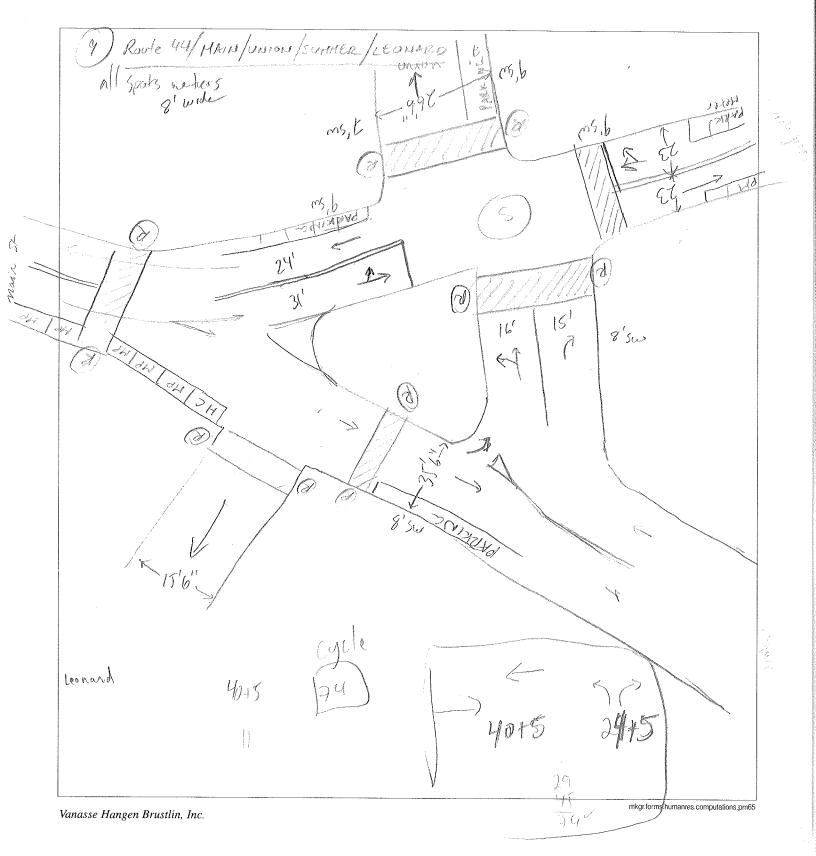
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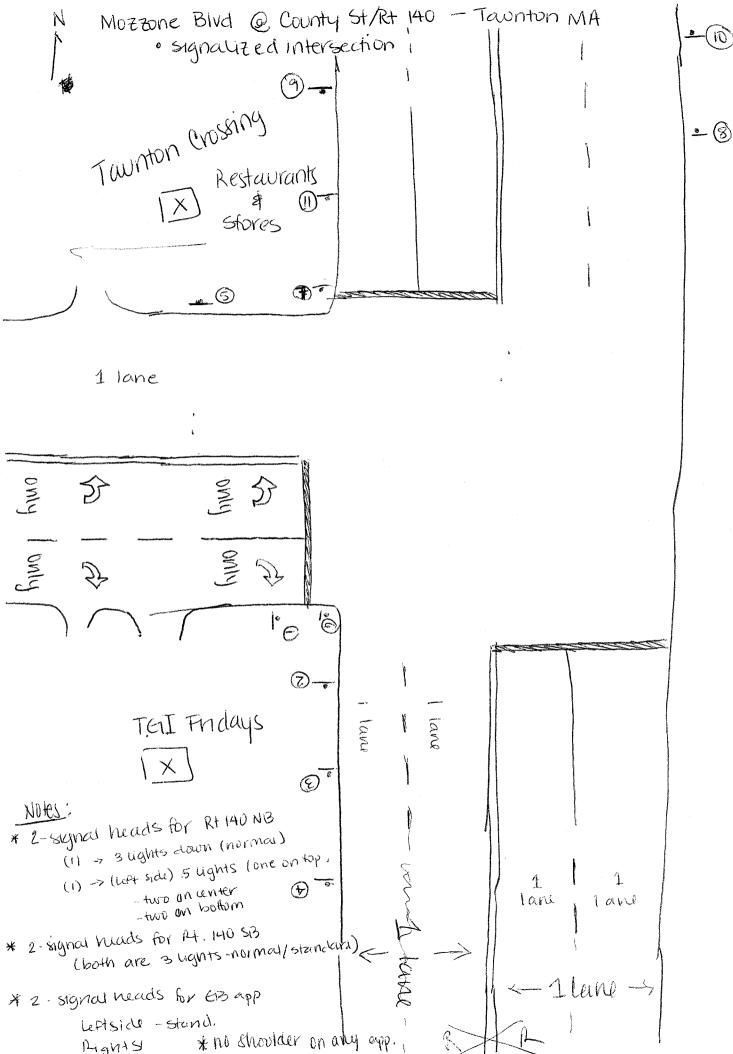
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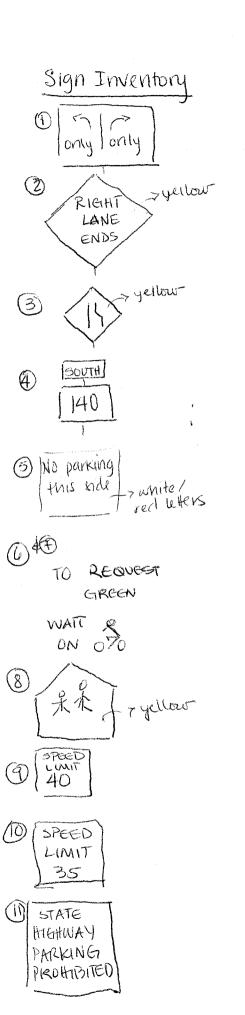
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Title





uncheveloped areas (vegetation)



TAUNTON

TITLE SHEET

THE COMMONWEALTH OF MASSACHUSETTS MASSACHUSETTS HIGHWAY DEPARTMENT

TRAFFIC SIGNAL LAYOUT PLAN AND PERMIT
DEAN STREET (ROUTE 44) AT LONGMEADOW ROAD & GORDON M. OWEN PKY

IN THE TOWN OF

TAUNTON
BRISTOL COUNTY

Under authority of Chapter 89, Sec. 8 General Laws, Tercentenary Edition, the Massachusetts Highway Department hereby approves the following described traffic control signal installation, and auxiliary signs and surface markings, for the above location, provided that a permit for the opening of the road and the placing of structures thereon shall be received from the board or officer in charge of the road.

This permit is granted for the specific signal installation described herein and for its operation in accordance with the conditions set forth below and with the requirements of the Mossachusetts Highway Department. The details for any material alterations or any continueds or substantial departure from the provisions of this permit must be submitted to the department for approval with data sufficient to justify such modification. Failure to comply with these requirements automatically voids this permit during such time as non-compliance exists.

I STANDARDS OF INSTALLATION

The traffic control signal installation and all auxiliary signs and surface markings which are used in connection with such installation shall conform with the requirements of the Massachusetts Highway Department and with the sketch which is attached.

II. OPERATION OF SIGNALS

(a) Type of control:
AUTOMATIC
(b) Coordination:
NONE
(c) Special connection:
NONE
(d) Timing for automatic operation:
Signals may be operated automatically for a shorter period of time but not for a greater length of time than is here indicated except when unusual conditions arise which

indicated except when unusual conditions arise which temporarily justify longer operation.

(f) Flashing Operation: Whenever a signal is not operating as a control device (stop and go), it must Flash Yellow or Flash Red as set forth in the signal sequence and at the rate of 50-60 flashes per minute unless otherwise specified in

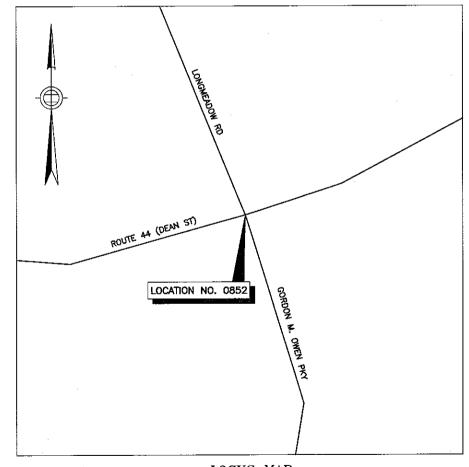
of 50-60 flashes per minute unless otherwise specified in Part II(e) of this Permit.

(g) Manual Operation: Signals may be operated manually at any time irrespective of the hours designated in Part II(3)

of this parmit

(h) Discontinuance: Signals may be discontinued at any time.

When this is done signal faces must be turned away from traffic, taken down ar hooded, and the District Highway Engineer notified.



LOCUS MAP (SCALE AS SHOWN)

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REVISION NO 01	
DATE: 12-06-01	
INSERT BY: J.C.CONNOR	COMMENTS:
DATE:	
FILE NAME: 0852T01.DWG	



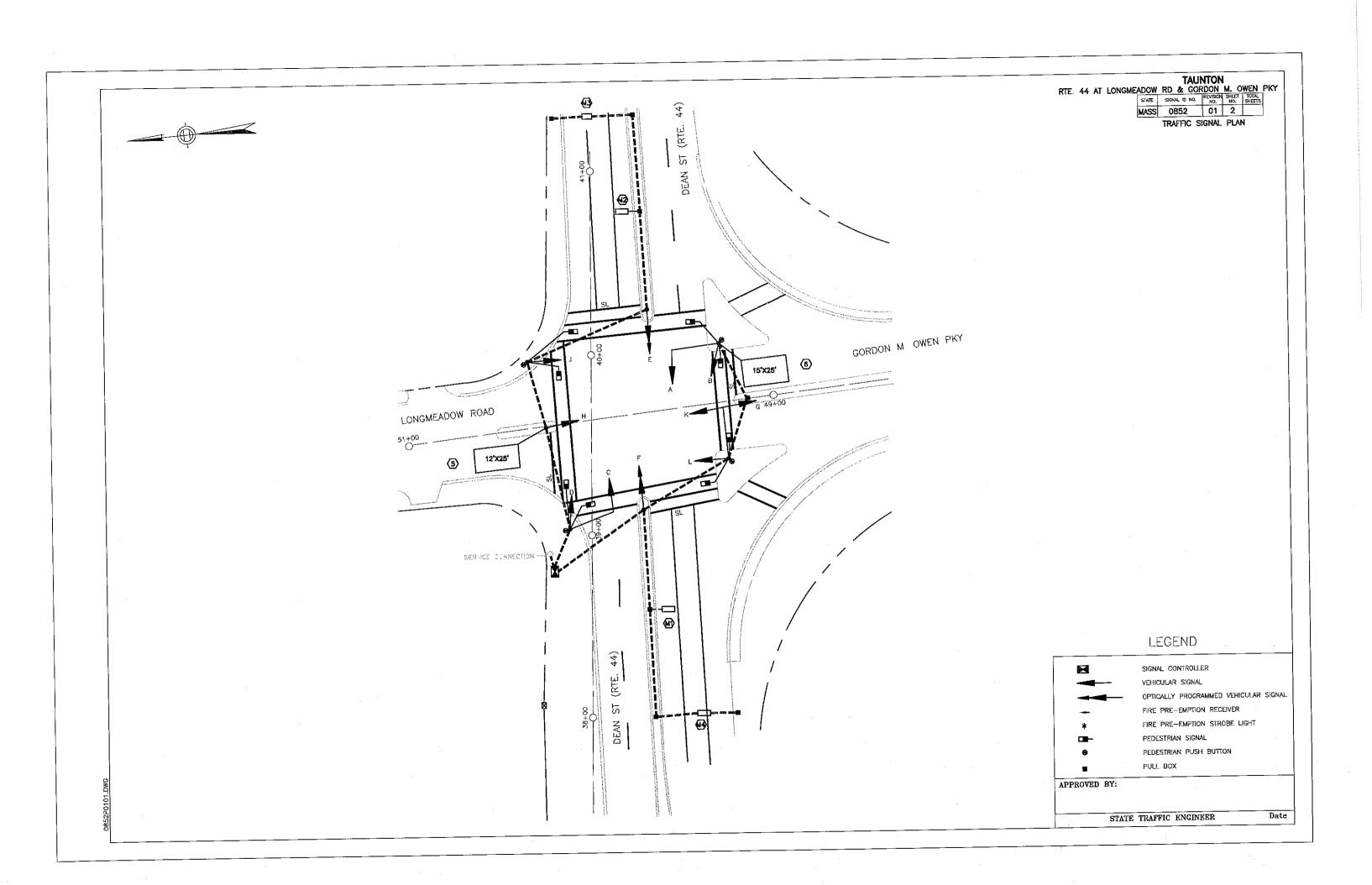
10 PARK PLAZA BOSTON, MA 02116 MASSACHUSETTS

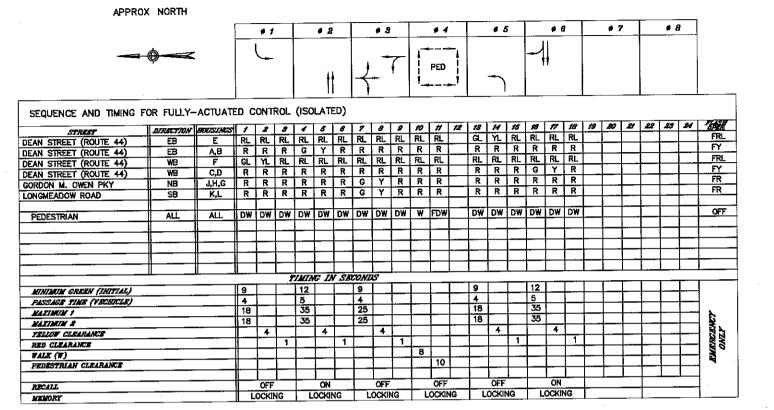
MASSACHUSETTS HIGHWAY DEPARTMENT

APPROVED BY:

STATE TRAFFIC ENGINEER

Dat





QUANTITY	ITEM
1	CONTROLLER TYPE 8DW, CAB. & FDN.
1	SERVICE CONNECTION (OVERHEAD)
4	10' SIGNAL POLE, BASE, & FDN.
3	MAST ARM ASSEMBLY, BASE, & FDN.
8	1 WAY, 3 SECTION, SIGNAL HOUSING (12" LENS)
1	1 WAY, 4 SECTION, SIGNAL HOUSING (12" LENS)
1	2 WAY, 3 SECTION, SIGNAL HOUSING (12" LENS)
8	PEDESTRIAN HOUSING
4	PEDESTRIAN PUSH BUTTON, SIGN, & SADDLES
1	LOOP DETECTOR AMPLIFIER
2	ROADWAY LOOP DETECTOR
4	MAGNETIC AMPLIFIERS
4	MAGNETIC DETECTOR
7	12" x 12" PULL BOX
	Necessary duct, cable, labor, miscellaneous
	material and equipment to complete the installation.

TAUNTON

RTE 44 AT LONGMEADOW RD & GORDON M. OWEN PKY

STATE STORMAL ID HIG. REVISION SHEET TOTAL

MASS 0852 01 3

TRAFFIC SIGNAL DATA

NOTES:

SEQUENCE AND TIMING NOTES:

1. ø7 AND ø8 NOT USED.

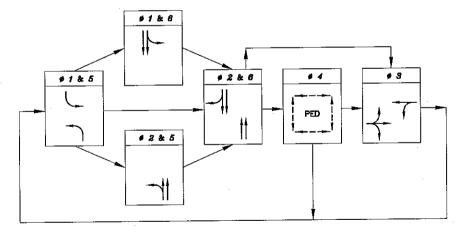
NEMA DUAL RING PHASING NOTES:

- 1. PHASES ASSOCIATED BY A SOULD LINE SHALL NOT OPERATE CONCURRENTLY.
- 2. PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
- 3. THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
- 4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

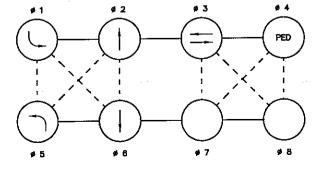
LOOP DETECTOR NOTES:

- SEE LOOP DETECTOR DETAIL SHEET FROM DESIGN DOCUMENT FOR SPLICE PATTERN AND OTHER INFORMATION.
- 2. DELAY AND EXTENSION TIMES ARE IN SECONDS.
- 3. DELAY TIME SHALL BE EFFECTIVE ONLY DURING THE RED PORTION OF THE PHASE THAT IS CALLED BY THE DETECTOR.
- 4. LOOP DETECTORS WERE NOT VISIBLE DURING SIGNAL INVENTORY.

PREFERENTIAL PHASING SEQUENCE



NEMA DUAL RING PHASING NOTES:



LOOP DETECTOR DATA

DETECTOR NUMBER	NUMBER OF SEGMENTS	LOOP SIZE	NUM. OF TURNS	CALLED	exT.	MODE PULSE PRESENCE	DELAY TIME	EXT. TIME
(4)	1	MAG	NETIC	ø5	ø5	PRESENCE		
(2)	1	MAG	NETIC	ø1	ø1	PRESENCE		
€3	1	MAG	NETIC	ø6	ø6	PRESENCE		
Q	1	MAG	NETIC.	ø2	ø 2	PRESENCE		
(5)	1	12'X25'		ø3	ø 3	PRESENCE		
6	1	15'X25'		ø3	ø3	PRESENCE		

SIGNAL IDENTIFICATION

WA K

3: FIBEROPTIC 1: LED 2: INCANDESCENT 12° LENS 0 F,E 12" INCANDESCENT OPTICALLY PROGRAMMED

CONTROLLER MAKE & MODEL: EPAC 300
UTILITY POLE No. NO #
METER No. 60-371-881 (231 72 5)
EMERGENCY PRE-EMPTION (TYPE): NONE APPROVED BY:

STATE TRAFFIC ENGINEER

STATE SIGNAL ID NO. REVISION SHEET TOTAL NO. NO. SHEETS

MASS 1365 01 1

TITLE SHEET

TAUNTON ROUTE 44 AT ROUTE 104

THE COMMONWEALTH OF MASSACHUSETTS MASSACHUSETTS HIGHWAY DEPARTMENT

TRAFFIC SIGNAL LAYOUT PLAN AND PERMIT

CAPE HIGHWAY (ROUTE 44) & DEAN ST (ROUTE 44) AT DEAN STREET (ROUTE 104)

IN THE TOWN OF

TAUNTON
BRISTOL COUNTY

Under authority of Chapter 89, Sec. 8 General Laws, Tercentenary Edition, the Massachusetts Highway Department hereby approves the following described traffic control signal inetallation, and auxiliary signs and surface markings, for the above location, provided that a permit for the opening of the road and the placing of structures thereon shall be received from the board or officer in charge of the road.

This permit is granted for the specific signal installation described herein and for its operation in accordance with the conditions set forth below and with the requirements of the Mossachusetts Highway Department. The details for any material alterations or any continued or substantial departure from the provisions of this permit must be submitted to the department for approval with data eurificient to justify such modification. Fallure to comply with these requirements automatically voids this permit during such time as non-compliance exists.

I. STANDARDS OF INSTALLATION

The traffic control signal installation and all auxiliary signs and surface markings which are used in connection with such installation shall conform with the requirements of the Massachusetts Highway Department and with the sketch which is attached.

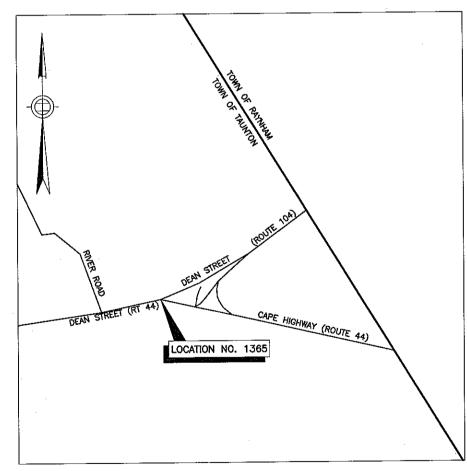
II OPERATION OF SIGNALS

(a) Type of control:
AUTOMATIC
(b) Coordination:
NONE
(c) Special connection:
NONE
(d) Timing for automatic operation:
SEE SHEET NO. 3
(e) Hours for Automatic Operation:
Signals may be operated automatically for a shorter period of time but not for a greater length of time than is here indicated except when unusual conditions arise which temporarily justify longer operation.

(f) Flashing Operation: Whenever a signal is not operating as a control device (stop and go), it must Flash Yellow or Flash Red as set forth in the signal sequence and at the rate of 50-60 flashes per minute unless otherwise specified in Part II(e) of this Permit.

(g) Manual Operation: Signals may be operated manually at any time irrespective of the hours designated in Part II(3) of this permit

(h) Discontinuance: Signals may be discontinued at any time.
When this is done signal faces must be turned away from
traffic, taken down or hooded, and the District Highway
Engineer notified



LOCUS MAP (SCALE AS SHOWN)

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l	INSERT BY: J.C.CONNOR	COMMENTS:
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١	FILE NAME: 1365T0101.DWG	

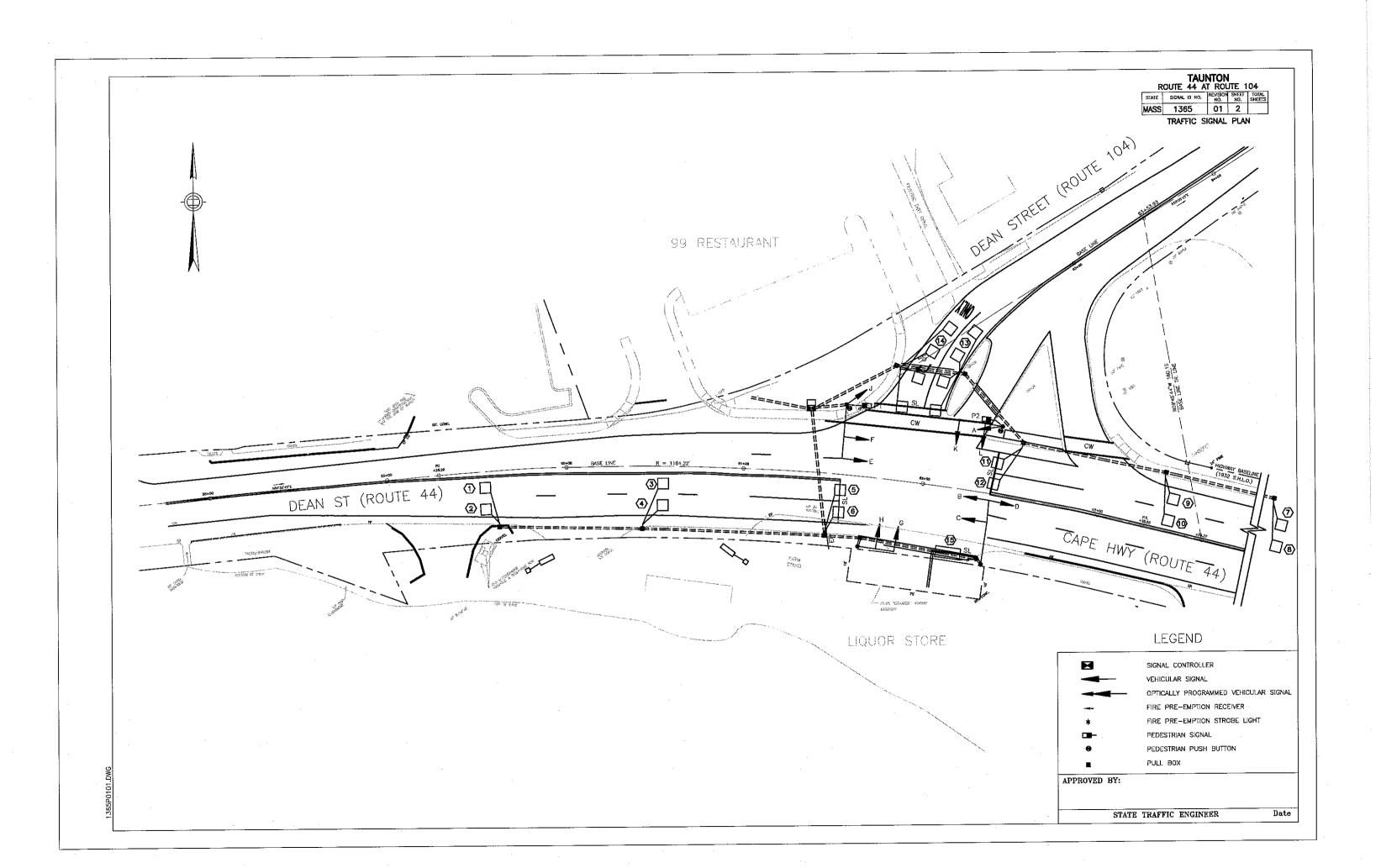
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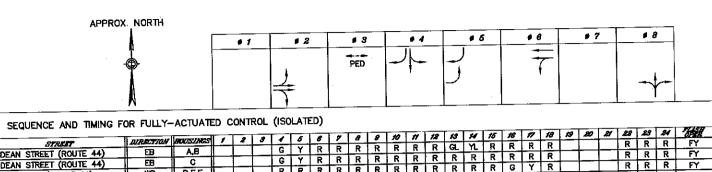
10 PARK PLAZA BOSTON, MA 02116

MASSACHUSETTS HIGHWAY DEPARTMENT

APPROVED BY:

STATE TRAFFIC ENGINEER





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MAJOR ITEMS REQUIRED								
QUANTITY	ITEM							
1	CONTROLLER TYPE 8DW, CAB. & FDN.							
1	SERVICE CONNECTION (OVERHEAD)							
4	MAST ARM ASSEMBLY, BASE, & FDN.							
4	8' SIGNAL POLE, BASE, & FDN.							
7	1 WAY, 3 SECTION, SIGNAL HOUSING (12" LENS)							
4	1 WAY, 5 SECTION SIGNAL HOUSING (12" LENS)							
2	PEDESTRIAN HOUSING							
2	PEDESTRIAN PUSH BUTTON, SIGN, & SADDLES							
8	LOOP DETECTOR AMPLIFIER (DUAL CHANNEL)							
21	ROADWAY LOOP DETECTOR							
10	12" x 12" PULL BOX							
	Necessary duct, cable, labor, miscellaneous material and equipment to complete the installation							

LOOP DETECTOR DATA

DETECTOR NUMBER	NUMBER OF SEGMENTS	LOOP SIZE	NUM. OF TURNS	CALLED	ØT.	MODE PULSE PRESENCE	DELAY TIME	EXT. TIME
0	1	6'X6'		#2	ø 2	PULSE		
2	1	6'X6'		#2	ø2	PRESENCE	_	
3	1	6'X6'		ø 2	ø2	PRESENCE		
④	1	6'X6'		ø2	ø2	PRESENCE		
(5)	1	6'X6'		ø5	ø5	PRESENCE		
6	1	6,X2,		#2	ø2	PRESENCE		
⑦	1	6'X6'		ø6	ø6	PRESENCE		
(8)	1	6'X6'		ø6	ø6	PRESENCE		
9	1	6'X6'		#6	ø6	PRESENCE		
10	1	6'X6'		#6	ø6	PRESENCE		
11)	1	6'X6'		ø6	ø6	PRESENCE	<u></u>	
12	1	6'X6'		ø6	ø6	PRESENCE		
(3)	4	6'X6'		ø4	64	PRESENCE		
13	4	6'X15'		ø 4	ø4	PRESENCE		
(5)	1	6'X6'		#8	øB	PRESENCE		

TRAFFIC SIGNAL DATA

NOTES:

SECUENCE AND TIMING NOTES:

1 ø1 AND ø7 NOT USED

NEMA DUAL RING PHASING NOTES:

- 1. PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.
- 2. PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
- 3. THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
- 4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

LOOP DETECTOR NOTES:

- SEE LOOP DETECTOR DETAIL SHEET FROM DESIGN DOCUMENT FOR SPLICE PATTERN AND OTHER INFORMATION.
- 2. DELAY AND EXTENSION TIMES ARE IN SECONDS.
- DELAY TIME SHALL BE EFFECTIVE ONLY DURING THE RED PORTION OF THE PHASE THAT IS CALLED BY THE DETECTOR.
- 4. LOOP DETECTORS WERE NOT VISIBLE DURING SIGNAL INVENTORY.

SIGNAL IDENTIFICATION

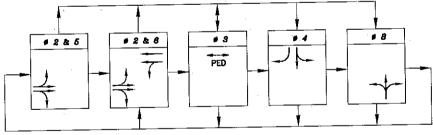
1: LED	2: INCANDES	SCENT 3: FIBEROPT	1
.2 [ENS	R 1 (Y) Y 2 (G) G 2	R 1 2 Y Y 2 3 2 G 2 2	
, -	A,B	H,J	
	R 2 SNG1 2 C.D.E.F G.K.L	12" FIBEROPTIC	

CONTROLLER MAKE & MODEL: EPAC 300	
CONTROLLER MAKE & MODEL; EPAC 300 UTILITY POLE No. TMLP #15	
METER No. CPN2MN2182	
EMERGENCY PRE-EMPTION (TYPE): NONE	
APPROVED BY:	

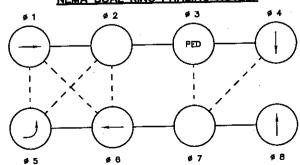
STATE TRAFFIC ENGINEER

Date

PREFERENTIAL PHASING SEQUENCE



NEMA DUAL RING PHASING NOTES:



TITLE SHEET

THE COMMONWEALTH OF MASSACHUSETTS MASSACHUSETTS HIGHWAY DEPARTMENT

TRAFFIC SIGNAL LAYOUT PLAN AND PERMIT
GALLERIA MALL ENTRANCE NEAR COUNTY ROAD (ROUTE 140) AND ROUTE 24

IN THE TOWN OF

TAUNTON
BRISTOL COUNTY

Under authority of Chapter 89, Sec. 8 General Laws, Tercentenary Edition, the Massachusetts Highway Department hereby approves the following described traffic control signal installation, and auxiliary signs and surface markings, for the above location, provided that a permit for the opening of the road and the placing of structures thereon shall be received from the board or officer in charge of the road.

This permit is granted for the specific signal installation described herein and for its operation in accordance with the conditions set forth below and with the requirements of the Massachusetts Highway Department. The details for any material alterations or any continueds or substantial departure from the provisions of this permit must be submitted to the department for approval with data sufficient to justify such modification. Failure to comply with these requirements automatically voids this permit during such time as non-compliance exists.

I. STANDARDS OF INSTALLATION

The traffic control signal installation and all auxiliary signs and surface markings which are used in connection with such installation shall conform with the requirements of the Massachusetts Highway Department and with the sketch which is attached.

11 OPERATION OF SIGNALS

- (a) Type of control:
 AUTOMATIC
 (b) Coordination:
 NONE
 (c) Special connection:
 NONE
 (d) Timing for automatic operation:
 Signals may be operated automatically for a shorter period of time but not for a greater length of time than is here indicated except when unusual conditions arise which
- temporarily justify longer operation.

 (f) Flashing Operation: Whenever a signal is not operating as a control device (stop and go), it must Flash Yellow or Flash Red as set forth in the signal sequence and at the rate of 50-60 flashes per minute unless otherwise specified in Part II(e) of this Permit.
- (g) Manual Operation: Signals may be operated manually at any time irrespective of the hours designated in Part Ii(3) of this permit
- (h) Discontinuance: Signals may be discontinued at any time.
 When this is done signal faces must be turned away from
 traffic, taken down or hooded, and the District Highway
 Engineer notified.

ROLPE 180 COUNTY RO.	Salle 18
LOCATION NO. 1361	
SILVER CITY GALLERIA	

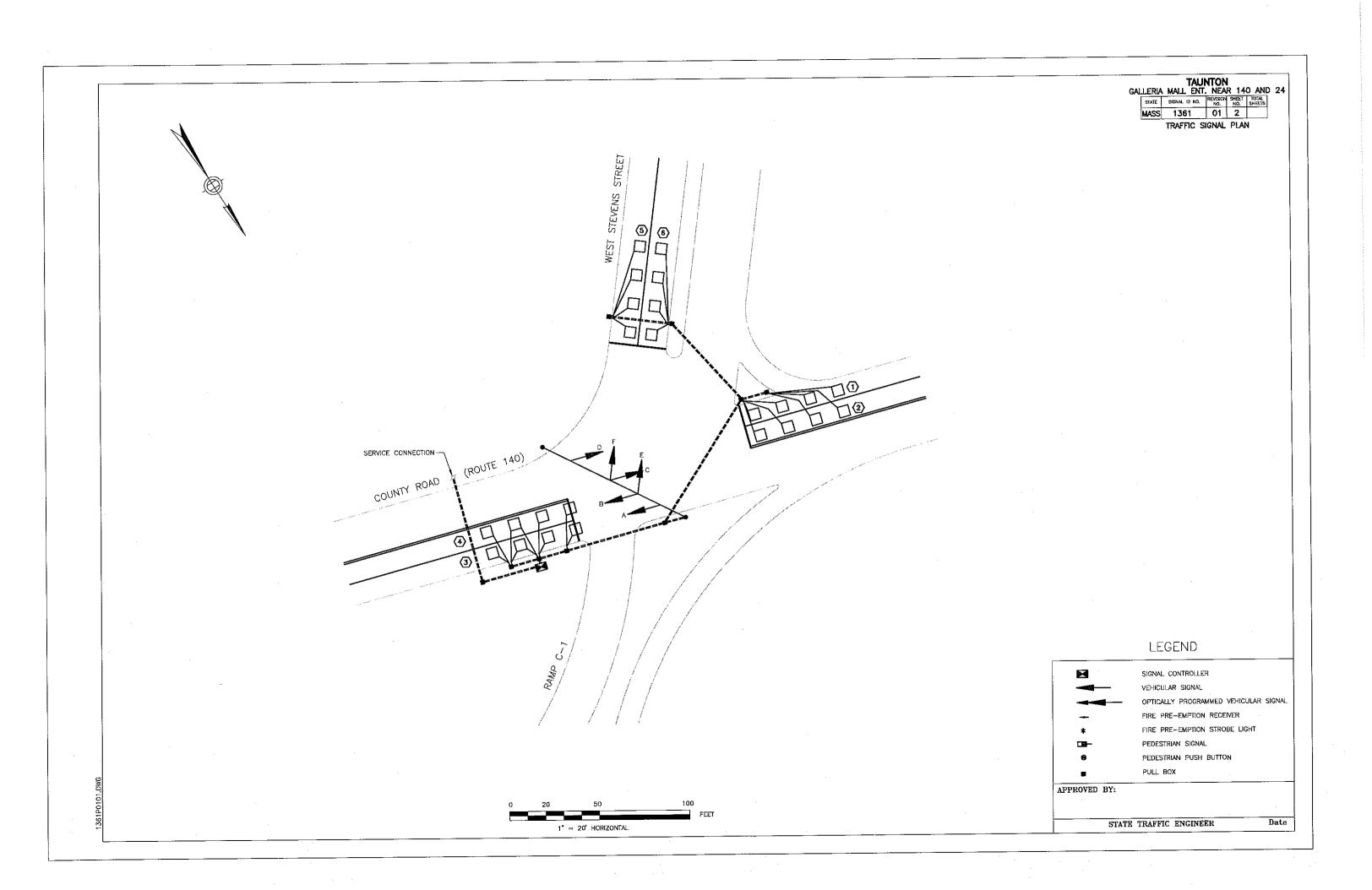
LOCUS MAP
(SCALE AS SHOWN)

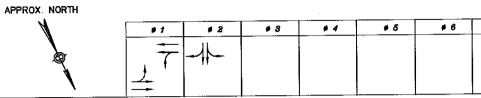
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REVISION NO		
DATE: 12-05-01		
INSERT BY: J.C.CONNOR	COMMENTS:	
	SOMMETTO.	
DATE:		
FILE NAME: 1361T0101.DWG		

	MASSI HIGHWAY
·	10 PARK PLAZA BOSTON, MA 02116
	MASSACHUSETTS
	HIGHWAY DEPARTMENT
	APPROVED BY:

STATE TRAFFIC ENGINEER





STREET	DIRECTION	BOUSTNUS	1	2	3	1	5	8	7	8	8	10	#	12	/3	14	15	16	17	18	19	20	27	22	23	24	
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	MAJOR ITEMS REQUIRED
QUANTITY	ITEM
1	CONTROLLER TYPE 8DW, CAB. & FDN.
1	SERVICE CONNECTION (OVERHEAD)
1	SPANWIRE ASSEMBLY BASE & FDN.
2	1 WAY, 3 SECTION, SIGNAL HOUSING (12" LENS)
2	2 WAY, 3 SECTION SIGNAL HOUSING (12" LENS)
3	LOOP DETECTOR AMPLIFIER (DUAL CHANNEL)
24	ROADWAY LOOP DETECTOR
9	12" x 12" PULL BOX
	
	
<u> </u>	
	Necessary duct, cable, labor, miscellaneous
	material and equipment to complete the installation

8

NOTES:

SEQUENCE AND TIMING NOTES:

1. ø3 - ø8 NOT USED.

NEMA DUAL RING PHASING NOTES:

1. PHASES ASSOCIATED BY A SOUD LINE SHALL NOT OPERATE CONCURRENTLY..

TAUNTON

GALLERIA MALL ENT. NEAR 140 AND 24 STATE SIGNAL ID NO. REVISION SHEET TOTAL NO. NO. SHEETS

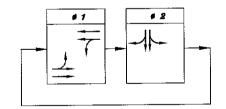
MASS 1361 01 3 TRAFFIC SIGNAL DATA

- PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
- 3. THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
- 4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

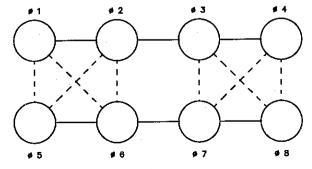
LOOP DETECTOR NOTES:

- SEE LOOP DETECTOR DETAIL SHEET FROM DESIGN DOCUMENT FOR SPLICE PATTERN AND OTHER INFORMATION.
- 2. DELAY AND EXTENSION TIMES ARE IN SECONDS.
- 3. DELAY TIME SHALL BE EFFECTIVE ONLY DURING THE RED PORTION OF THE PHASE THAT IS CALLED BY THE DETECTOR.
- 4. LOOP DETECTORS WERE NOT VISIBLE DURING SIGNAL INVENTORY.

PREFERENTIAL PHASING SEQUENCE



NEMA DUAL RING PHASING NOTES:



LOOP DETECTOR DATA

DETECTOR NUMBER	NUMBER OF SEGMENTS	LOOP SIZE	NUM. OF TURNS	CALLED	EXT	MODE PULSE PRESENCE	DELAY	EXT. TIME
1	4	6'X6'		ø1	ø 1	PRESENCE		٠
2	4	6'X6'		ø1	# 1	PRESENCE		
3	4	6'X6'		∌ 1	ø1	PRESENCE		
④	4	6'X6'		ø1	ø 1	PRESENCE		
(5)	4	6'X6'		#2	#2	PRESENCE		
(8)	4	6'X6'		#2	#2	PRESENCE		
	1.							

SIGNAL IDENTIFICATION

2: INCANDESCENT 3: FIBEROPTIC

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12.	<u></u>	2

ALL

CONTROLLER MAKE & MODEL: EPAC	300
LITHITY POLE No	
METER No. 97258539 (FNIMN67)	
EMERGENCY PRE-EMPTION (TYPE):	NONE

APPROVED BY:

STATE TRAFFIC ENGINEER

STEVENS ST AT ROUTE 140 OFF RAMP & GALLERIA MALL DR.

| STATE | SIGNAL 10 NO. | REVISION SHEET | TOTAL | NO. | NO. | SHEETS | NO. | NO. | NO. | SHEETS | NO. | NO. | NO. | SHEETS | NO. |

TITLE SHEET

THE COMMONWEALTH OF MASSACHUSETTS MASSACHUSETTS HIGHWAY DEPARTMENT

TRAFFIC SIGNAL LAYOUT PLAN AND PERMIT STEVENS STREET AT ROUTE 140 OFF RAMP & GALLERIA MALL DR.

IN THE TOWN OF

TAUNTON BRISTOL COUNTY

Under authority of Chapter 89, Sec. 8 General Laws, Tercentenary Edition, the Massachusetts Highway Department hereby approves the following described traffic control signal installation, and auxiliary signs and surface markings, for the above location, provided that a permit for the opening of the raad and the placing of structures thereon shall be received from the board or officer in

This permit is granted for the specific signal installation described herein and for its operation in accordance with the conditions set forth below and with the requirements of the Massachusetts Highway Department. The details for any material alterations or any continued or substantial departure from the provisions of this permit must be submitted to the department for appraval with data sufficient to justify such modification. Failure to comply with these requirements automatically voids this permit during such time as non-compliance exists.

STANDARDS OF INSTALLATION

The traffic control signal installation and all auxiliary signs and surface markings which are used in connection with such installation shall conform with the requirements of the Massachusetts Highway Department and with the sketch which is attached.

II OPERATION OF SIGNALS

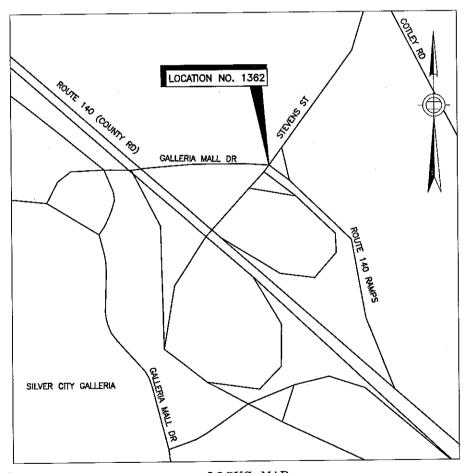
Type of control: AUTOMATIC NONE Coordination: Special connection: Timing for automatic operation: SEE SHEET NO. 3 Hours for Automatic Operation: CONTINUOUS
Signals may be operated automatically for a shorter period
of time but not for a greater length of time than is here
indicated except when unusual conditions arise which

temporarily justify longer operation.

(f) Flashing Operation: Whenever a signal is not operating as a control device (stop and go), it must Flash Yellow or Flash Red as set forth in the signal sequence and at the rate of 50-60 flashes per minute unless otherwise specified in Part II(e) of this Permit.

(g) Manual Operation: Signals may be operated manually at any time irrespective of the hours designated in Part II(3)

(h) Discontinuance: Signals may be discontinued at any time. When this is done signal faces must be turned away from traffic, taken down or hooded, and the District Highway Engineer notified



LOCUS MAP (SCAL)

	HC	R. SCALE IN	N FEET	
0	200	400		80
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R. SCALE IN FEET 400 800	E AS SH	IOWN)			

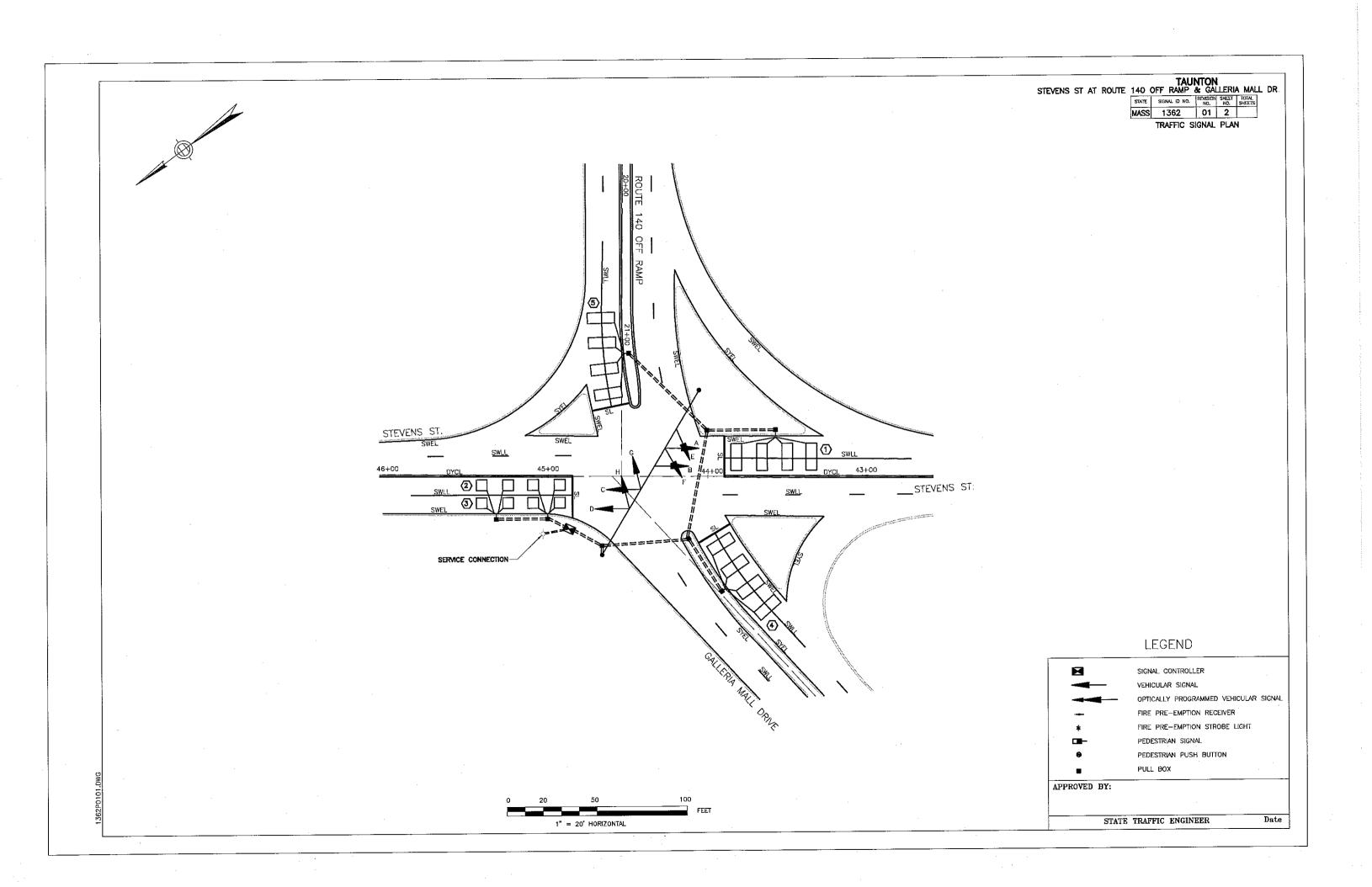
10 PARŘ PLAZA BOSTON, MA 02116

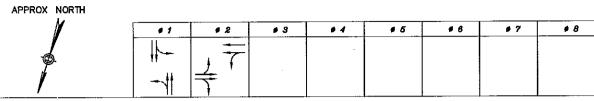
MASSACHUSETTS HIGHWAY DEPARTMENT

APPROVED BY:

STATE TRAFFIC ENGINEER

REVISION NO	
DATE: 12-05-D1	L
INSERT BY: J.C.CONNOR	,
DATÉ:	
FILE NAME: 1362T0101.DWG	





STREET	DIRECTION	HOUSINGS	1	2	3	1	5	8	7	8	9	10	#	12	13	14	15	16	17	18	19	20	21	28	23	24	OF I
TEVENS STREET	NB	A,B	R	R	R	G	Y	R																			FR
TEVENS STREET	SB	C,D	R	R	R	G	Y	R														ľ					FR
ALLERIA MALL DRIVE	EB	E,F	G	Y	R	R	R	R																			FY
OUTE 140 OFF RAMP	WB	G,H	G	Y	R	R	R	R												_							FY
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MINIMUM GREEN (INITIAL)		1	8			8		-																			
PASSAGE TIME (VECHICLE)			2		П	2																	<u> </u>	<u> </u>	<u> </u>		
MAXINUM 1			48			24																			<u></u>		
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TELLOT CLEARANCE				4			4																				1
RED CLEARANCE					1			1.1													L.,						KERCENCY
WALK (W)																		<u> </u>			<u> </u>				<u> </u>		3
PEDESTRIAN CLEARANCE																			<u> </u>								9
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QUANTITY	ITEM
1	CONTROLLER TYPE 4DW & 8DW, CAB. & FDN.
1	SERVICE CONNECTION (OVERHEAD)
1	SPANWIRE ASSEMBLY BASE & FDN. W/ TETHER
2	1 WAY, 3 SECTION, SIGNAL HOUSING (12" LENS)
2	2 WAY, 3 SECTION SIGNAL HOUSING (12" LENS)
3	LOOP DETECTOR AMPLIFIER (DUAL CHANNEL)
20	ROADWAY LOOP DETECTOR
8	12" x 12" PULL BOX
1	SPECIAL FUNCTION UNIT-TIME BASED COORD.
•••	
	Necessary duct, cable, labor, miscellaneous
	material and equipment to complete the installation

STEVENS ST AT ROUTE 140 OFF RAMP & GALLERIA MALL DR. STATE SIGNAL DI NO. REVISION SHEET TOTAL MASS 1362 01 3

TRAFFIC SIGNAL DATA

NOTES:

SEQUENCE AND TIMING NOTES:

1. ø3 - ø8 NOT USED.

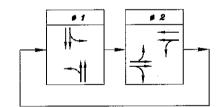
NEMA DUAL RING PHASING NOTES:

- 1. PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.
- 2. PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
- 3. THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
- 4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

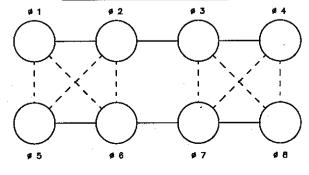
LOOP DETECTOR NOTES:

- SEE LOOP DETECTOR DETAIL SHEET FROM DESIGN DOCUMENT FOR SPLICE PATTERN AND OTHER INFORMATION.
- 2. DELAY AND EXTENSION TIMES ARE IN SECONDS.
- 3. DELAY TIME SHALL BE EFFECTIVE ONLY DURING THE RED PORTION OF THE PHASE THAT IS CALLED BY THE DETECTOR.
- 4. LOOP DETECTORS NOT VISIBLE DURING SIGNAL INVENTORY.

PREFERENTIAL PHASING SEQUENCE



NEMA DUAL RING PHASING NOTES:



LOOP DETECTOR DATA

DETECTOR NUMBER	NUMBER OF SEGMENTS	LOOP SIZE	NUM. OF TURNS	CALLED	έΧT.	MODE PULSE PRESENCE	DELAY TIME	EXT. TIME
1	4	6'X20'	3	#1	ø1	PRESENCE		
2	8	6'X6'	3	#1	ø1	PRESENCE		
3	4	6'X20'	3	# 1	ø1	PRESENCE	-	
④	4	6'X20'	.3	#2	≠2	PRESENCE		
(\$)	4	6,X6,	3	ø2	≠2	PRESENCE		

SIGNAL IDENTIFICATION

1: LED 2: INCANDESCENT 3: FIBEROPTIC

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SKG	\odot	2
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?	\odot	2
	(e)	2
	ALL	

CONTROLLER MAKE & MODEL: EAGLE
UTILITY POLE No. TMLP / NET&T CO. 4 1/2
METER No. 28-169-006
EMERGENCY PRE-EMPTION (TYPE): NONE APPROVED BY:

STATE TRAFFIC ENGINEER

Dete

THE COMMONWEALTH OF MASSACHUSETTS MASSACHUSETTS HIGHWAY DEPARTMENT

| TAUNTON | REM. | RAMP | STATE | SIGNAL ID NO. | REVISION | SHEET | TOTAL | NO. | NO. | SHEETS | SHEETS | NO. | SHEETS | NO. | SHEETS | NO. | NO. | SHEETS | NO. | NO. | SHEETS | NO. | NO. | NO. | NO. | SHEETS | NO. | NO.

TITLE SHEET

TRAFFIC SIGNAL LAYOUT PLAN AND PERMIT

COUNTY STREET (ROUTE 140) AT AMERICAN VETERANS MEMORIAL HIGHWAY (ROUTE 24) NORTHBOUND RAMP

IN THE TOWN OF

Under authority of Chapter 89, Sec. 8 General Laws, Tercentenary Edition, the Massachusetts Highway Department hereby approves the following described traffic control signal installation, and auxiliary signs and surface markings, for the above location, provided that a permit for the opening of the raad and the placing of structures thereon shall be received from the board or officer in other raad.

This permit is granted for the specific signal installation described herein and for its operation in accordance with the conditions set forth below and with the requirements of the Massachusetts Highway Department. The details for any material alterations or any continued or substantial departure from the provisions of this permit must be submitted to the department for approval with data sufficient to justify such modification. Fallure to comply with these requirements automatically voids this permit during such time as non-compliance exists.

I STANDARDS OF INSTALLATION

The traffic control signal installation and all auxiliary signs and surface markings which are used in connection with such installation shall confarm with the requirements of the Massachusetts Highway Department and with the sketch which is attached.

II OPERATION OF SIGNALS

(a) Type of control:

(b) Coordination:

(c) Special connection:

(d) Timing for automatic operation:

(e) Hours for Automatic Operation:

Signals may be operated automatically for a shorter period of time but not for a greater length of time than is here indicated except when unusual conditions arise which

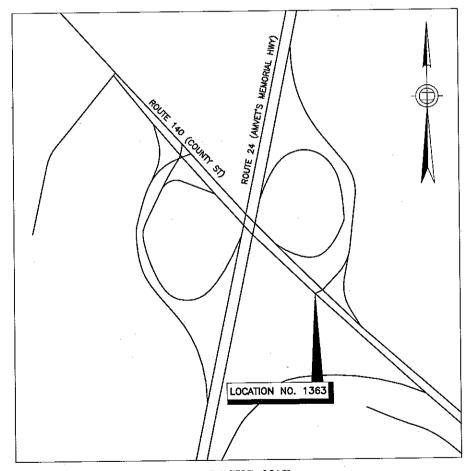
temporarily justify longer operation.

(f) Flashing Operation: Whenever a signal is not operating as a control device (stop and go), it must Flash Yellow or Flash Red as set forth in the signal sequence and at the rate of 50–60 flashes per minute unless otherwise specified in Part II(e) of this Permit.

(g) Manual Operation: Signals may be operated manually at any time irrespective of the hours designated in Part II(3) of this permit

(h) Discontinuance: Signals may be discontinued at any time.
When this is done signal faces must be turned away from
traffic, taken down or hooded, and the District Highway
Engineer notified

TAUNTON BRISTOL COUNTY



LOCUS MAP
(SCALE AS SHOWN)

	HOR	SCALE IN	FEET	
0	200	400		800

MASS		MINOU E INCLIUIV
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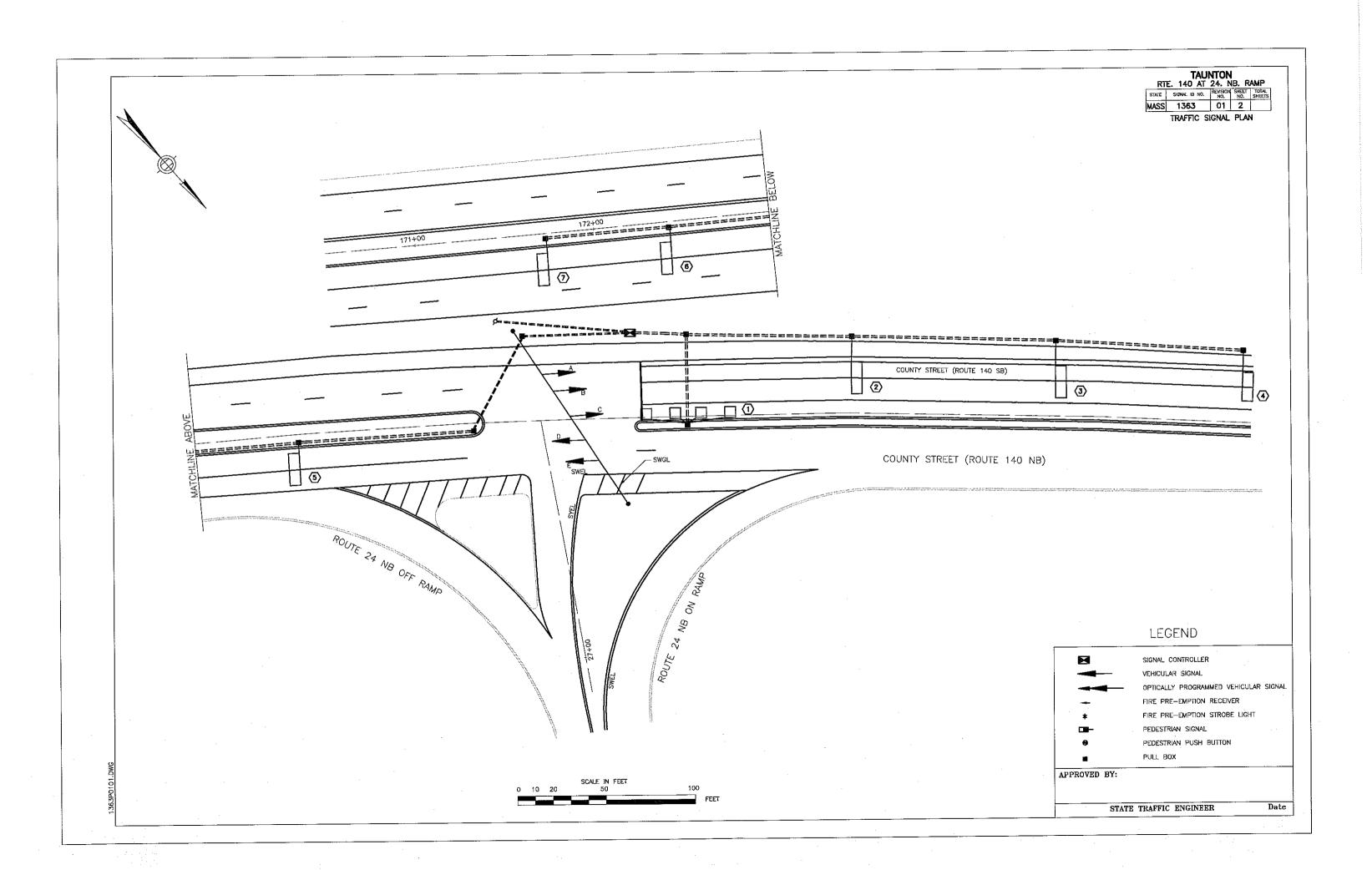
10 PARK PLAZA BOSTON, MA 02116

MASSACHUSETTS HIGHWAY DEPARTMENT

APPROVED BY:

STATE TRAFFIC ENGINEER

	VISION NO 01 TE: 12-05-01	
ins	SERT BY: J.C.CONNOR	COMMENTS:
1	TE: E NAME: 1363T0101.DWG	·



APPROX NORTH



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STREET	DIRECTION	HOUS/MGS	1	2	3	1	5	8	7	8	9	10	#	12	13	11	15	18	17	18	79	80	21	22	23	21	6F34
COUNTY ST (ROUTE 140)	EB-LT		RL		RL	GL	된	RL																			FRL
COUNTY ST (ROUTE 140)	EB		G	G	G	G	G	G																			FY
OUNTY ST (ROUTE 140)	WB		G۷	Y	R	R	R	R																			FY
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MINIMUM CREEN (INITIAL)			16	П	1	8																					
PASSAGE TIME (VECHICLE)			2			2							Г														
MAXIMUM 1			42			30																					
NATINUM 2			56	1		20																					\$
TELLOT CLEARANCE				4			4																				3
RED CLEARANCE					1			1																			83
WALK (W) .	* * .	i																				L		$oxed{oxed}$		Ш	EWERCENCY ONLY
PEDESTRIAN CLEARANCE																						_	<u> </u>	_			4
RECALL			├	EXT		\vdash	OFF	1	\vdash	<u> </u>		\vdash	L		-			I				<u> </u>	L			\dashv	
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	MAJOR ITEMS REQUIRED
QUANTITY	ITEM
1	CONTROLLER TYPE 8DW, CAB. & FDN.
1	SERVICE CONNECTION (UNDERGROUND)
1	SPANWIRE ASSEMBLY BASE & FDN.
5	1 WAY, 3 SECTION, SIGNAL HOUSING (12" LENS)
4	LOOP DETECTOR AMPLIFIER (DUAL CHANNEL)
11	ROADWAY LOOP DETECTOR
10	12" x 12" PULL BOX
	Necessary duct, cable, labor, miscellaneous
	material and equipment to complete the installation

NOTES:

SECUENCE AND TIMING NOTES:

5. ø3 - ø8 not used.

NEMA DUAL RING PHASING NOTES:

1. PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.

TAUNTON
RTE. 140 AT 24. NB. RAMP

STATE SCAML ID NO. REVISION SHEET TOTAL
NO. SHEETS

MASS 1363 01 3

TRAFFIC SIGNAL DATA

- PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
- 3. THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
- 4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

LOOP DETECTOR NOTES:

- 1. SEE LOOP DETECTOR DETAIL SHEET FROM DESIGN DOCUMENT FOR SPLICE PATTERN AND OTHER INFORMATION.
- 2. DELAY AND EXTENSION TIMES ARE IN SECONDS.
- 3. DELAY TIME SHALL BE EFFECTIVE ONLY DURING THE RED PORTION OF THE PHASE THAT IS CALLED BY THE DETECTOR.
- 4. LOOP DETECTOR NOT VISIBLE DURING SIGNAL INVENTORY.

COORDINATION DATA (ALL ENTRIES IN SECONDS)

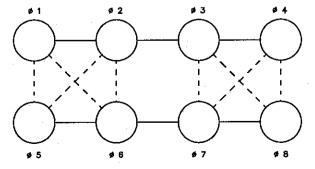
PREFERENTIAL PHASING SEQUENCE

CYCLE	ווד	ME PERI	OD	OFFSE	т	ĘN	똢			
CYCLE 1	MONDAY-	SATURDAY	0		8	2				
CYCLE 2	sur	40AY 1100	-1900	0		8	2			
CYCLE 3	MONDAY-	SATURDAY	0600-1000	0		. 8	2			
CYCLE 4										
SPLIT	ø1	#2	ø3	ø 4	ø	¢5 ¢6		-	ø7	\$8
SPLIT 1										
SP⊔T 2										
SP⊔T 3										
SP⊔T 4										

LOOP DETECTOR DATA

DETECTOR NUMBER	NUMBER OF SEGMENTS	LOOP SIZE	NUM. OF TURNS	CALLED	ÉXT.	MODE PULSE PRESENCE	DELAY	EXT. TIME
1	4	6'X6'	3	ø 2	ø 2	PRESENCE		
2	1	6'X18'	3	61	ø1	PULSE		
3	1	6'X18'	3	øi	ø1	PULSE		,
4	1	6'X18'	3	ø1	#1	PULSE		
(5)	1	6'X18'	3	ø1	# 1	PULSE		
(6)	1	6'X18'	3	#1	ø 1	PULSE		
⑦	1	6'X18'	3	#1	ø 1	PULSE		

NEMA DUAL RING PHASING NOTES:



SIGNAL IDENTIFICATION

1: LED 2: INCANDESCENT 3: FIBEROPTIC

R 1	+
g (₹) 2	¥ (₹
2 1	± €
ABDE	

CONTROLLER MAKE & MODEL: TCT (LMD 8000
UTILITY POLE No	
METER No. 21-150-696 (34985H) EMERGENCY PRE-EMPTION (TYPE):	NONE
APPROVED BY:	

STATE TRAFFIC ENGINEER

Date

33D0101.DWG

THE COMMONWEALTH OF MASSACHUSETTS MASSACHUSETTS HIGHWAY DEPARTMENT

TITLE SHEET

TRAFFIC SIGNAL LAYOUT PLAN AND PERMIT

COUNTY STREET (ROUTE 140) AT AMERICAN VETERANS HIGHWAY (ROUTE 24) SOUTHBOUND RAMP

IN THE TOWN OF

TAUNTON
BRISTOL COUNTY

Under authority of Chapter 89, Sec. 8 General Laws, Tercentenary Edition, the Massachusetts Highway Department hereby approves the following described traffic control signal installation, and auxiliary signs and surface markings, for the above location, provided that a permit for the opening of the road and the placing of structures thereon shall be received from the board or officer in charge of the road.

This permit is granted for the specific signal installation described herein and for its operation in accordance with the conditions set forth below and with the requirements of the Massachusetts Highway Department. The details for any material alterations or any continueds or substantial departure from the provisions of this permit must be submitted to the department for approval with data sufficient to justify such modification. Failure to comply with these requirements automatically voids this permit during such time as non-compliance exists.

I STANDARDS OF INSTALLATION

The traffic control signal installation and all auxiliary signs and surface markings which are used in connection with such installation shall conform with the requirements of the Massachusetts Highway Department and with the sketch which is attached.

II OPERATION OF SIGNALS

(a) Type of control:
AUTOMATIC
(b) Coordination:
(c) Special connection:
(d) Timing for automatic operation:
Signols may be operated automatically for a shorter period of time but not for a greater length of time than is here indicated except when unusual conditions arise which

temporarily justify longer operation.

(f) Flashing Operation: Whenever o signal is not operating as a control device (stop and go), it must Flash Yellow or Flash Red as set forth in the signal sequence and at the rate of 50-60 flashes per minute unless otherwise specified in Part II(e) of this Permit.

(g) Manual Operation: Signals may be operated manually at any time irrespective of the hours designated in Part II(3) of this permit

(h) Discontinuance: Signals may be discontinued at ony time. When this is done signal faces must be turned away from traffic, taken down or hooded, and the District Highway Engineer notified.

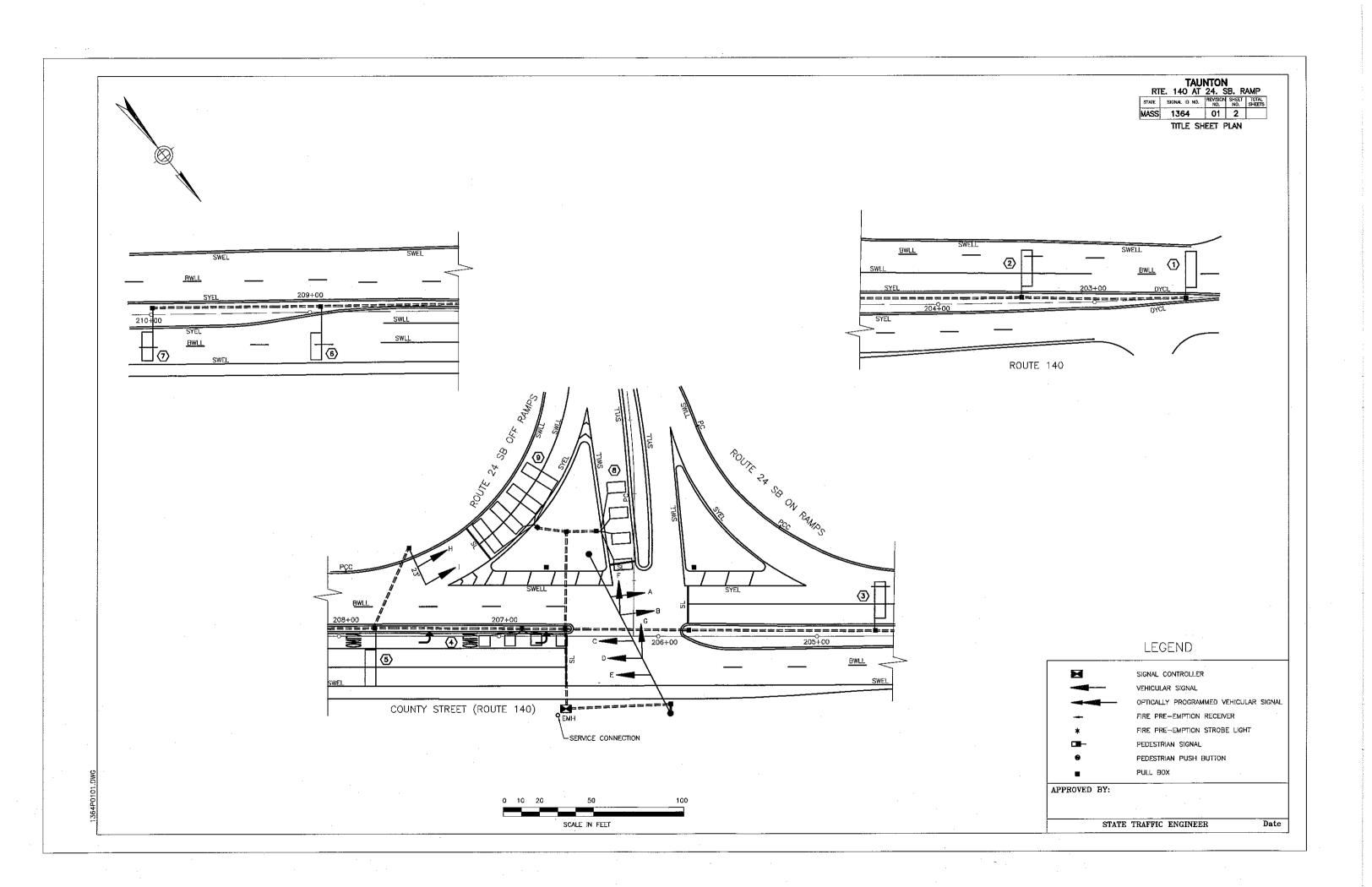
LOCUS MAP	
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(SCALE AS SHOWN)

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	1
REVISION NO 01	
DATE: 12-05-01	
INSERT BY: J.C.CONNOR	COMMENTS:
DATE:	
FILE NAME: 1364T0101.DWG	

	ARK PLAZA N, MA 02116
MASS	ACHUSETTS
HIGHWAY	DEPARTMENT
APPROVED BY:	



STREET	DIRECTION	HOUS/NGS	1	2	3	1	5	8	7	8	9	10	#	12	1.9	11	15	18	17	18	19	20	21	22	90	94	1/4
UNTY ST (ROUTE 140)	EB	A,B	G	Ÿ	R	R	R	R	R	R	R			-~-			-	~	"	~	- 7.5	20	~/	A.6	200	.444	F)
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DUNTY ST (ROUTE 140)	WB	D,E	G	G	G	G	Ÿ	R	R	R	R	_			\vdash		-	\vdash	\dashv	-1	-					_	F)
UTE 24 SB RAMP	NB	F,G	R	Ř	R	Ŕ	R	R	GL	Ÿ	R							\vdash		-							FF
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PASSAGE TIME (VECHICLE)			4			3			4									$\neg \neg$		\neg		一		T			
MAXIMUM 1			34			20			49										T			_	\neg	╛	\neg	-	
VAXIMUM 2			34			20			40											一					一		È
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ED CLEARANCE					1			1			1																BUSINER
ALK (W)																		T		T							9
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RECALL				EXT			OFF			OFF																	

	MAJOR ITEMS REQUIRED
QUANTITY	ITEM
. 1	CONTROLLER TYPE 4DW & 8DW, CAB. & FDN.
1	SERVICE CONNECTION
1	SPANWIRE ASSEMBLY BASE & FDN.
5	1 WAY, 3 SECTION, SIGNAL HOUSING (12" LENS)
2	2 WAY, 3 SECTION SIGNAL HOUSING (12" LENS)
1	SPECIAL FUNCTION UNIT-TIME BASED COORDINATION
5	LOOP DETECTOR AMPLIFIER (DUAL CHANNEL)
9	ROADWAY LOOP DETECTOR
13	12" x 12" PULL BOX
-	Necessary duct, cable, labor, miscellaneous material and equipment to complete the installation
-	material una equipment to complete the installation.

LOOP DETECTOR DATA

8

DETECTOR NUMBER	NUMBER OF SEGMENTS	LOOP SIZE	NUM. OF TURNS	CALLED	έχι.	MODE PULSE PRESENCE	DELAY TIME	EXT. TIME
0	1	6'X20'		ø1	#1	PRESENCE		
2	1	6'X20'		ø1	ø1	PRESENCE		
3	1	6'X20'		ø1	ø 1	PRESENCE		
④	4	6'X6'		#2	ø 2	PRESENCE		
⑤	1	6'X20'		ø1	ø1	PRESENCE		
6	1	6'X20'		ø 1	ø 1	PRESENCE		
Ø	1	6'X20'		ø 1	ø1	PRESENCE		
(8)	4	6'X10'		ø3	ø3	PRESENCE		
9	4	6'X20'		ø3	ø3	PRESENCE		

SIGNAL IDENTIFICATION

1: LED	2: INCANDES	CENT 3: FI	BEROPTIC
R 1 SNET 2 GF 2	R 1 SNGT 2 H,I 2	1 2 2 2 C	R 1 SNGT 2 SNGT

TAUNTON							
RTE, 140 AT 24, SB, RAMF							
STATE	SIGNAL ID NO.	REVISION NO.	SHEET NO.	TUTAL			
MASS	1364	01	3				
TRAFFIC SIGNAL DATA							

NOTES:

SECUENCE AND TIMING NOTES:

1. Ø4 - Ø8 NOT USED.

NEMA DUAL RING PHASING NOTES:

- 1. PHASES ASSOCIATED BY A SOLID LINE SHALL NOT OPERATE CONCURRENTLY.
- 2 PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.
- 3. THROUGH MOVEMENTS MAY INCLUDE RIGHT TURNS.
- 4. IF THE ASSIGNED RIGHT OF WAY FOR ANY TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE INTERVAL(S) UNLESS OTHERWISE NOTED.

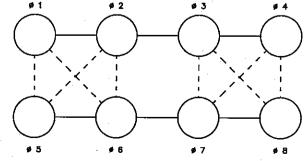
LOOP DETECTOR NOTES:

- SEE LOOP DETECTOR DETAIL SHEET FROM DESIGN DOCUMENT FOR SPLICE PATTERN AND OTHER INFORMATION.
- 2. DELAY AND EXTENSION TIMES ARE IN SECONDS.
- 3. DELAY TIME SHALL BE EFFECTIVE ONLY DURING THE RED PORTION OF THE PHASE THAT IS CALLED BY THE DETECTOR.
- 4. LOOP DETECTORS WERE NOT VISIBLE DURING SIGNAL INVENTORY.

NEMA DUAL RING PHASING NOTES:

PREFERENTIAL PHASING SEQUENCE

2



CONTROLLER MAKE & MODEL: TCT LMD 8000
UTILITY POLE No. METER No. 312-32-714 (34424R)
EMERGENCY PRE-EMPTION (TYPE): NONE
APPROVED BY:

STATE TRAFFIC ENGINEER