



June 20, 2017

Mr. Adam Fox, P.E.
Principal Engineer
Environmental Compliance Section
Bureau of Engineering and Highway Operations
State of Connecticut Department of Transportation
2800 Berlin Turnpike, P.O. Box 317546
Newington, CT 06131-7546

Attention: Judith Nemecek, P.E. / Denise Young

Subject: On-Call Asbestos, Lead, Air Quality & Demolition Compliance
Agreement No. 04.27-01(15)
HazMat Inspection – Seventeen (17) Traffic Signal Intersection Sites, District 1 & 2. Various
Cities/Towns, CT
ConnDOT Assignment No. 514-5367
ConnDOT Project No. 172-435/436
TRC Project No. 222165.5367.00710

Dear Mr. Fox:

TRC performed a limited survey for hazardous building materials associated with traffic signals at 17 Intersection sites in District 1 & 2 of Connecticut. Results of the survey identified the following at the traffic signal span poles, mast arms, pedestals and controller cabinet replacements at the following Intersections:

Traffic Signal Int. No. 028-209, Route 85 at Halls Hill Rd. & Doctor Foote Rd., Colchester

- Single traffic light poles were galvanized (unpainted).
- No detectable amounts of lead in paint were found on the metal green crosswalk push buttons/hoods and the metal controller cabinet.
- Since no detectable amounts of lead were present on painted metal surfaces of the metal green crosswalk push buttons/hoods and the metal controller cabinet, any paint waste generated from the green crosswalk push buttons/hoods and cabinet would be classified as non-hazardous, non-RCRA waste.

Intersection No. 041-205, Route 66 at North Main St. and Main St., East Hampton

- Single traffic light poles were galvanized (unpainted).
- No detectable amounts of lead in paint were found on the metal green crosswalk push buttons/hoods and the metal controller cabinet.
- Since no detectable amounts of lead were present on painted metal surfaces of the metal green crosswalk push buttons/hoods and the metal controller cabinet, any paint waste generated from the green crosswalk push buttons/hoods and cabinet would be classified as non-hazardous, non-RCRA waste.

Intersection No. 058-201, Route 1 at Route 12 and Kings Highway, Groton

- Detectable amounts of lead were identified on the painted metal surface of the traffic signal span pole/base at Intersection No. 058-201. The pole is on the East corner of Kings Highway and Route 1.

- Single traffic light poles were galvanized (unpainted).
- The paint associated with the metal traffic lights themselves are presently presumed to be lead containing.
- Detectable amounts of lead in paint were found on the metal cantilever pole associated with flashing sign (Sign Support No. 21196) and crosswalk push buttons.
- No detectable amounts of lead in paint were found on the metal controller cabinet.
- TCLP waste stream sampling/analysis of the paint associated with the metal span/cantilever pole surfaces characterized the paint waste as non-hazardous, non-RCRA waste.
- Since no detectable amounts of lead were present on painted surfaces of the metal control cabinet any paint waste generated from the cabinet would be classified as non-hazardous, non-RCRA waste.
- Traffic lights themselves and crosswalk push buttons shall be removed without any impact to the lead components, but if lead paint waste is generated it should be tested for TCLP lead to determine waste disposal.

Intersection No. 058-224, Route 184 at SR 614 and Pumpkin Hill Rd., Groton

- All span poles were galvanized (unpainted).
- Pedestrian pedestals were galvanized (unpainted).
- The paint associated with the metal traffic lights themselves are presently presumed to be lead containing.
- Detectable amounts of lead in paint were found on the yellow crosswalk push buttons.
- No detectable amounts of lead in paint were found on the green crosswalk push buttons and metal controller cabinet.
- Since no detectable amounts of lead were present on painted surfaces of the metal green crosswalk push buttons and control cabinet any paint waste generated from the buttons/cabinet would be classified as non-hazardous, non-RCRA waste.
- Traffic lights themselves and crosswalk push buttons shall be removed without any impact to the lead components, but if lead paint waste is generated it should be tested for TCLP lead to determine waste disposal.

Intersection No. 082-248, Silver St. at Tynan Dr. & Harvey Dr., Middletown

- All span poles were galvanized (unpainted).
- Pedestrian pedestals were galvanized (unpainted).
- The paint associated with the metal traffic lights themselves are presently presumed to be lead containing.
- No detectable amounts of lead in paint were found on the black crosswalk hoods, yellow crosswalk push buttons/hoods and metal controller cabinet.
- Since no detectable amounts of lead were present on painted surfaces of the metal black crosswalk hoods, yellow crosswalk push buttons/hoods and control cabinet any paint waste generated from the buttons/hoods/cabinet would be classified as non-hazardous, non-RCRA waste.
- Traffic lights themselves shall be removed without any impact to the lead components, but if lead paint waste is generated it should be tested for TCLP lead to determine waste disposal.

Intersection No. 082-249, Silver St. at Holmes Dr., Middletown

- All span poles were galvanized (unpainted).
- Pedestrian pedestals were galvanized (unpainted).

- The paint associated with the metal traffic lights themselves are presently presumed to be lead containing.
- No detectable amounts of lead in paint were found on the black crosswalk hoods, yellow crosswalk push buttons/hoods and metal controller cabinet.
- Since no detectable amounts of lead were present on painted surfaces of the metal black crosswalk hoods, green crosswalk push buttons, yellow crosswalk push buttons/hoods and control cabinet any paint waste generated from the buttons/hoods/cabinet would be classified as non-hazardous, non-RCRA waste.
- Traffic lights themselves shall be removed without any impact to the lead components, but if lead paint waste is generated it should be tested for TCLP lead to determine waste disposal.

Intersection No. 115-201, Route 12 at South Main St. and School St., Putnam

- All span poles were either galvanized (unpainted) or wood (unpainted).
- Pedestrian pedestals were galvanized (unpainted).
- The paint associated with the metal traffic lights themselves are presently presumed to be lead containing.
- No detectable amounts of lead in paint were found on the green crosswalk push buttons/hoods and metal controller cabinet.
- Since no detectable amounts of lead were present on painted surfaces of the green crosswalk push buttons/hoods and control cabinet any paint waste generated from the buttons/hoods/cabinet would be classified as non-hazardous, non-RCRA waste.
- Traffic lights themselves shall be removed without any impact to the lead components, but if lead paint waste is generated it should be tested for TCLP lead to determine waste disposal.

Intersection No. 115-216, Route 44 at Kennedy Dr., Putnam

- Pedestrian pedestals were galvanized (unpainted).
- No detectable amounts of lead in paint were found on the metal green crosswalk push buttons/hoods and the metal controller cabinet.
- No detectable amounts of lead were present on painted metal surfaces of the metal green crosswalk push buttons/hoods and the metal controller cabinet, any paint waste generated from the green crosswalk push buttons/hoods and cabinet would be classified as non-hazardous, non-RCRA waste.
- Dark brown fiber expansion joint caulking by NW pedestrian pedestal was sampled and found to contain no detectable amounts of asbestos.

Intersection No. 012-201, Route 6 at Route 85 and SR 533 (Cider Mill Rd.), Bolton

- All span poles were galvanized (unpainted).
- Pedestrian pedestals were galvanized (unpainted).
- The paint associated with the metal traffic lights themselves are presently presumed to be lead containing.
- Detectable amounts of lead in paint were found on the metal cantilever pole associated with flashing sign (Sign Support No. 21710) and crosswalk push buttons.
- No detectable amounts of lead in paint were found on the metal green crosswalk push buttons and metal control cabinet.
- TCLP waste stream sampling/analysis of the paint associated with the metal cantilever pole surfaces characterized the paint waste as non-hazardous, non-RCRA waste.

- Since no detectable amounts of lead were present on painted surfaces of the metal green crosswalk push buttons and the metal control cabinet any paint waste generated from the cabinet would be classified as non-hazardous, non-RCRA waste.
- Traffic lights themselves and crosswalk push buttons shall be removed without any impact to the lead components, but if lead paint waste is generated it should be tested for TCLP lead to determine waste disposal.

Intersection No. 040-201, Route 82 at Baker Ln., East Haddam

- All span poles were wood (unpainted).
- The paint associated with the metal flashing traffic lights themselves are presently presumed to be lead containing.
- Metal control box on wood pole was stainless steel (unpainted).
- Flashing traffic lights themselves shall be removed without any impact to the lead components, but if lead paint waste is generated it should be tested for TCLP lead to determine waste disposal.

Intersection No. 057-201, Route 12 at Route 138 at K of C Dr., Griswold

- All span poles were wood (unpainted).
- The paint associated with the metal flashing traffic lights themselves are presently presumed to be lead containing.
- Detectable amounts of lead in paint were found on the metal control box on wood pole at K & C
- Flashing traffic lights themselves and metal control box shall be removed without any impact to the lead components, but if lead paint waste is generated it should be tested for TCLP lead to determine waste disposal.

Intersection No. 058-203, Route 12 at Pleasant Valley Rd. South & Groton Square Driveway, Groton

- All span poles were galvanized (unpainted).
- Pedestrian pedestals were galvanized (unpainted).
- The paint associated with the metal traffic lights themselves are presently presumed to be lead containing.
- No detectable amounts of lead in paint were found on the yellow crosswalk push buttons, green crosswalk push buttons and metal controller cabinet.
- Since no detectable amounts of lead were present on painted surfaces of the metal yellow crosswalk push buttons, green crosswalk push buttons and control cabinet any paint waste generated from the buttons/cabinet would be classified as non-hazardous, non-RCRA waste.
- Traffic lights themselves shall be removed without any impact to the lead components, but if lead paint waste is generated it should be tested for TCLP lead to determine waste disposal.

Intersection No. 058-210, Route 1 at Buddington Rd., Groton

- Detectable amounts of lead were identified on the painted metal surface of the traffic signal span pole/base at Intersection No. 058-210. Other span pole was wood (unpainted).
- Pedestrian pedestals were galvanized (unpainted).
- The paint associated with the metal traffic lights themselves are presently presumed to be lead containing.
- Detectable amounts of lead in paint were found on the metal yellow crosswalk push buttons.

- No detectable amounts of lead in paint were found on the green crosswalk push buttons and metal controller cabinet.
- TCLP waste stream sampling/analysis of the paint associated with the metal span pole surfaces characterized the paint waste as non-hazardous, non-RCRA waste.
- Since no detectable amounts of lead were present on painted surfaces of the metal green crosswalk push buttons and control cabinet any paint waste generated from the buttons/cabinet would be classified as non-hazardous, non-RCRA waste.
- Traffic lights themselves and yellow crosswalk push buttons shall be removed without any impact to the lead components, but if lead paint waste is generated it should be tested for TCLP lead to determine waste disposal.

Intersection No. 058-211, Route 1 at SR 649, Groton

- All span poles were either galvanized (unpainted) or wood (unpainted).
- Pedestrian pedestals were galvanized (unpainted).
- The paint associated with the metal traffic lights themselves are presently presumed to be lead containing.
- Detectable amounts of lead in paint were found on the metal yellow crosswalk push buttons and metal red fire box.
- No detectable amounts of lead in paint were found on the metal controller cabinet.
- Since no detectable amounts of lead were present on painted surfaces of the metal control cabinet any paint waste generated from the cabinet would be classified as non-hazardous, non-RCRA waste.
- Traffic lights themselves, yellow crosswalk push buttons and red fire box shall be removed without any impact to the lead components, but if lead paint waste is generated it should be tested for TCLP lead to determine waste disposal.

Intersection No. 058-236, Route 1 at Drozdyk Dr., Groton

- All span poles were galvanized (unpainted).
- Pedestrian pedestals were galvanized (unpainted).
- The paint associated with the metal traffic lights themselves are presently presumed to be lead containing.
- Detectable amounts of lead in paint were found on the metal yellow crosswalk push buttons and metal red fire box.
- No detectable amounts of lead in paint were found on the metal controller cabinet.
- Since no detectable amounts of lead were present on painted surfaces of the metal green crosswalk push buttons and control cabinet any paint waste generated from the buttons/cabinet would be classified as non-hazardous, non-RCRA waste.
- Traffic lights themselves, yellow crosswalk push buttons and red fire box shall be removed without any impact to the lead components, but if lead paint waste is generated it should be tested for TCLP lead to determine waste disposal.

Intersection No. 058-256, Route 12 at Ohio Ave., Groton

- All span poles were galvanized (unpainted).
- Pedestrian pedestals were galvanized (unpainted).
- The paint associated with the metal traffic lights themselves are presently presumed to be lead

containing.

- Detectable amounts of lead in paint were found on the metal yellow crosswalk push buttons.
- No detectable amounts of lead in paint were found on the metal controller cabinet.
- Since no detectable amounts of lead were present on painted surfaces of the metal control cabinet any paint waste generated from the cabinet would be classified as non-hazardous, non-RCRA waste.
- Traffic lights themselves and yellow crosswalk push buttons shall be removed without any impact to the lead components, but if lead paint waste is generated it should be tested for TCLP lead to determine waste disposal.

Intersection No. 108-208, Route 12 at Route 14A and Cemetery Rd., Plainfield

- All span poles were galvanized (unpainted).
- Pedestrian pedestals were galvanized (unpainted).
- The paint associated with the metal traffic lights themselves are presently presumed to be lead containing.
- No detectable amounts of lead in paint were found on the metal green crosswalk hoods/push buttons and metal controller cabinet.
- Since no detectable amounts of lead were present on painted surfaces of the metal green crosswalk hoods/push buttons and control cabinet any paint waste generated from the hoods/buttons/cabinet would be classified as non-hazardous, non-RCRA waste.
- Traffic lights themselves shall be removed without any impact to the lead components, but if lead paint waste is generated it should be tested for TCLP lead to determine waste disposal.

Potential universal waste (UW) and Connecticut Regulated Waste (CRW) items associated with the traffic lights themselves, crosswalk signal hoods/buttons and control cabinets (i.e. Hg lamps/PCB ballasts and/or printed circuit boards) are also likely present at the Intersection sites.

Laboratory data, Inspector Notes and Site No. information are attached.

If you have any questions, please call TRC at (860) 298-9692.

Very Truly Yours,

TRC

Reviewed By:



Stephen R. Arienti, CHMM
Project Manager



Erik R. Plimpton, P.E., CHMM, CMC
Vice President - Program Manager



Lead Based Paint Measurement Summary Table

Device(s): Niton XL9001-A (Serial #24792 & #25555) X Ray Fluorescence (XRF) Spectrum Analyzer
 Site: District 1 Traffic Signal Intersections & Newington Intersection
 Project #: 222185.5387.0710
 Date(s): 5/23/17, 5/30/17 & 5/31/17
 Inspector: Kelly Grey & Greg Kaczynski (Lead Inspector/RA CT LIC Nos. 002287 & 002159)

Number	Interior/ Exterior	Location	Intersection	Structure	Feature	Material	Color	Condition	Reading (mg/cm ²)	Precision (mg/cm ²)	Depth Index	Duration (sec)	Date/Time
1			Self-Calibration						0.0	0.0	1.0	6.5	5/23/2017 9:13
2			0.0 calibration						3.6	0.2	1.3	8.2	5/23/2017 9:17
3			3.6 calibration						0.3	0.1	1.0	2.8	5/23/2017 9:17
4			0.3 calibration										
5					VOID								
6	Exterior		Bolton Int #115-201	push button		Metal	Yellow	Intact	1.5	0.1	1.1	6.5	5/23/2017 9:42
7	Exterior		Bolton Int #115-201	control box		Metal	Grey	Intact	0.0	0.0	1.0	7.0	5/23/2017 9:46
8	Exterior		Bolton Int #115-201	stop signal	pole	Metal	Tan/Beige	Intact	0.1	0.1	7.7	17.5	5/23/2017 10:05
9	Exterior		Bolton Int #115-201	stop signal	pedestal	Metal	Tan/Beige	Intact	0.0	0.0	2.3	9.8	5/23/2017 10:06
10	Exterior		putnam Int #115-216	control box	pedestal	Metal	Grey	Intact	0.0	0.0	1.0	7.3	5/23/2017 11:29
11	Exterior		putnam Int #115-216	control box	pedestal	Metal	Grey	Intact	0.0	0.0	2.6	6.9	5/23/2017 11:29
12	Exterior		putnam Int #115-216	control box	pedestal	Metal	Grey	Intact	0.0	0.0	1.1	5.7	5/23/2017 11:32
13					VOID								
14	Exterior		putnam Int #115-216	walk signal		Metal	Green	Intact	0.0	0.0	2.7	4.1	5/23/2017 11:42
15					VOID								
16	Exterior		putnam Int #115-216	push button		Metal	Green	Intact	0.0	0.1	4.8	3.7	5/23/2017 11:48
17	Exterior		putnam Int #115-216	push button		Metal	Green	Intact	0.0	0.5	5.2	9.4	5/23/2017 11:48
18	Exterior		putnam Int #115-201	off box		Metal	Grey	Intact	0.0	0.0	1.3	7.3	5/23/2017 13:07
19					VOID								
20					VOID								
21	Exterior		putnam Int #115-201	walk signal		Metal	Green	Intact	0.0	0.0	1.7	4.9	5/23/2017 13:10
22	Exterior		putnam Int #115-201	walk signal		Metal	Green	Intact	0.0	0.0	2.5	6.1	5/23/2017 13:10
23					VOID								
24					VOID								
25					VOID								
26	Exterior		putnam Int #115-201	push button		Metal	Green	Intact	0.0	0.0	1.5	4.9	5/23/2017 13:16
27	Exterior		putnam Int #115-201	push button		Metal	Green	Intact	0.0	0.0	1.2	4.5	5/23/2017 13:17
28	Exterior		putnam Int #115-201	walk signal		Metal	Green	Intact	0.0	0.0	1.5	2.8	5/23/2017 13:17
29	Exterior		putnam Int #115-201	walk signal		Metal	Green	Intact	0.0	0.0	2.8	4.9	5/23/2017 13:19
30	Exterior		putnam Int #115-201	walk signal		Metal	Green	Intact	0.0	0.0	1.0	2.0	5/23/2017 13:20
31	Exterior		putnam Int #115-201	push button		Metal	Green	Intact	0.0	0.0	3.9	6.1	5/23/2017 13:21
32	Exterior		putnam Int #115-201	walk signal		Metal	Green	Intact	0.0	0.0	1.9	4.1	5/23/2017 13:23
33	Exterior		putnam Int #115-201	walk signal		Metal	Green	Intact	0.0	0.1	3.8	2.9	5/23/2017 13:24
34	Exterior		putnam Int #115-201	walk signal		Metal	Green	Intact	0.0	0.0	1.7	2.8	5/23/2017 13:24
35			0.0 calibration						0.0	0.0	1.0	1.2	5/23/2017 14:01
36			3.6 calibration						3.6	0.3	1.3	7.0	5/23/2017 14:02
37			0.3 calibration						0.3	0.0	1.0	8.2	5/23/2017 14:02
38	Exterior		plairfield Int#108-208	push button		Metal	Green	Intact	0.0	0.0	1.0	1.5	5/23/2017 14:08
39	Exterior		plairfield Int#108-208	walk signal		Metal	Green	Intact	0.0	0.0	1.0	3.3	5/23/2017 14:08
40	Exterior		plairfield Int#108-208	walk signal		Metal	Green	Intact	0.0	0.0	1.0	4.5	5/23/2017 14:08
41					VOID								
42	Exterior		plairfield Int#108-208	walk signal		Metal	Green	Intact	0.0	0.0	1.0	4.9	5/23/2017 14:10
43	Exterior		plairfield Int#108-208	walk signal		Metal	Green	Intact	0.0	0.0	1.0	1.2	5/23/2017 14:10
44	Exterior		plairfield Int#108-208	walk signal		Metal	Green	Intact	0.0	0.0	1.0	4.5	5/23/2017 14:11
45	Exterior		plairfield Int#108-208	walk signal		Metal	Green	Intact	0.0	0.0	1.0	1.6	5/23/2017 14:11



Lead Based Paint Measurement Summary Table

Device(s): Niton XLP101-A (Serial #24792 & #25555) X-Ray Fluorescence (XRF) Spectrum Analyzer
 Site: District 1 Traffic Signal Intersections & Newington Intersection
 Project #: 222163.5367.0710
 Date(s): 4/23/17, 5/30/17 & 5/31/17
 Inspector: Kelly Grey & Greg Kaczynski (Lead Inspector) RA CT LIC Nos. 002267 & 002156

Number	Interior/Exterior	Location	Intersection	Structure	Feature	Material	Color	Condition	Reading (mg/cm ²)	Precision (mg/cm ²)	Depth Index	Duration (sec)	Date/Time
46	Exterior		plainfield int 108-208	ctrl box		Metal	Grey	Intact	0.0	0.0	1.7	4.1	5/23/2017 14:13
47	Exterior		Groton int 057-201	ctrl box		Metal	Grey	Intact	2.0	0.6	1.2	6.9	5/23/2017 14:47
48	Exterior		Groton int 057-201	ctrl box		Metal	Grey	Intact	1.3	0.1	1.2	7.3	5/23/2017 14:47
49			0.0 calibration						0.0	0.0	1.0	2.0	5/23/2017 14:52
50			3.6 calibration						3.6	0.3	1.3	4.1	5/23/2017 14:53
51			0.3 calibration						0.3	0.1	1.0	5.7	5/23/2017 14:53
52			Self-Calibration									166.0	5/30/2017 8:54
53			0.0 calibration						0.0	0.0	1.0	2.7	5/30/2017 8:56
54			3.6 calibration						3.8	0.3	1.3	5.1	5/30/2017 8:56
55			0.3 calibration						0.3	0.1	1.0	4.3	5/30/2017 8:58
56	Exterior	Groton	058-224	push button	VOID	Metal	Yellow	Intact	0.9	0.1	1.1	20.8	5/30/2017 9:02
58	Exterior	Groton	058-224	push button		Metal	Green	Intact	0.0	0.0	3.3	20.6	5/30/2017 9:06
59	Exterior	Groton	058-211	push button		Metal	Yellow	Intact	0.9	0.1	1.0	20.5	5/30/2017 9:46
60	Exterior	Groton	058-211	ctrl box		Metal	Grey	Intact	0.0	0.0	1.3	1.7	5/30/2017 9:48
61	Exterior	Groton	058-211	ctrl box		Metal	Grey	Intact	0.0	0.0	1.0	1.9	5/30/2017 9:49
62	Exterior	Groton	058-211	ctrl box		Metal	Grey	Intact	0.0	0.0	1.0	1.9	5/30/2017 9:49
63	Exterior	Groton	058-211	ctrl box		Metal	Grey	Intact	0.0	0.0	1.0	3.2	5/30/2017 9:49
64	Exterior	Groton	058-211	fire pole box		Metal	Red	Intact	0.1	0.0	1.9	6.5	5/30/2017 10:04
65	Exterior	Groton	058-210	ctrl box		Metal	Grey	Intact	0.0	0.0	1.0	3.1	5/30/2017 10:21
66	Exterior	Groton	058-210	push button	VOID	Metal	Yellow	Intact	1.1	0.1	1.1	7.0	5/30/2017 10:33
68					VOID								
69	Exterior	Groton	058-210	push button		Metal	Green	Intact	0.0	0.0	1.0	1.2	5/30/2017 10:37
70	Exterior	Groton	058-236	fire box		Metal	Red	Intact	0.1	0.0	4.5	8.9	5/30/2017 11:00
71	Exterior	Groton	058-236	fire box		Metal	Red	Intact	0.0	0.0	2.3	6.3	5/30/2017 11:00
72	Exterior	Groton	058-236	fire box		Metal	Red	Intact	0.0	0.0	2.6	14.7	5/30/2017 11:01
73					VOID								
74	Exterior	Groton	058-236	fire box		Metal	Red	Intact	0.1	0.0	4.2	20.3	5/30/2017 11:05
75	Exterior	Groton	058-236	ctrl box		Metal	Grey	Intact	0.0	0.0	2.5	3.8	5/30/2017 11:05
76	Exterior	Groton	058-236	ctrl box		Metal	Grey	Intact	0.0	0.0	1.0	2.4	5/30/2017 11:08
77	Exterior	Groton	058-236	ctrl box		Metal	Grey	Intact	0.0	0.0	1.4	1.4	5/30/2017 11:19
78	Exterior	Groton	058-236	push button		Metal	Yellow	Intact	0.5	0.1	1.2	20.2	5/30/2017 11:21
79	Exterior	Groton	058-236	push button		Metal	Yellow	Intact	0.9	0.1	1.0	12.1	5/30/2017 11:23
80	Exterior	Groton	058-236	push button		Metal	Yellow	Intact	0.8	0.1	1.0	25.2	5/30/2017 11:24
81	Exterior	Groton	058-236	push button		Metal	Yellow	Intact	1.3	0.3	1.1	2.9	5/30/2017 11:25
82			0.0 calibration						0.0	0.0	1.0	1.4	5/30/2017 12:23
83			3.6 calibration						3.5	0.3	1.3	3.6	5/30/2017 12:23
84			0.3 calibration						0.3	0.1	1.1	5.5	5/30/2017 12:23
85	Exterior	Groton	058-201	ctrl box		Metal	Grey	Intact	0.0	0.0	1.0	3.4	5/30/2017 12:32
86	Exterior	Groton	058-201	push button		Metal	Yellow	Intact	0.0	0.0	1.0	1.4	5/30/2017 12:32
87					VOID								
88	Exterior	Groton	058-201	push button		Metal	Yellow	Intact	0.0	0.0	1.5	4.4	5/30/2017 12:48
89	Exterior	Groton	058-201	push button		Metal	Yellow	Intact	0.6	0.1	1.0	20.2	5/30/2017 12:53
90					VOID								

Lead point includes paint found to contain any detectable amount of lead by Atomic Absorption Spectrophotometry (AAS) or X-Ray Fluorescence (XRF)



Lead Based Paint Measurement Summary Table

Device(s): Niton XLP901-A (Serial #24792 & #25555) X Ray Fluorescence (XRF) Spectrum Analyzer
 Site: District 1 Traffic Signal Intersections & Newington Intersection
 Project #: 22165.5367.0710
 Date(s): 5/23/17, 5/30/17 & 5/31/17
 Inspector: Kelly Grey & Greg Kaczynski (Lead Inspector) RA CT LIC Nos. 902287 & 902156

Number	Interior/Exterior	Location	Intersection	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
91	Exterior	Groton	058-201	carliever pole		Metal	Tan/Beige	Intact	0.9	0.5	9.8	19.4	5/30/2017 13:02
92	Exterior	Groton	058-201	carliever pole		Metal	Tan/Beige	Intact	0.2	0.1	4.8	3.7	5/30/2017 13:03
93	Exterior	Groton	058-203	push button		Metal	Yellow	Intact	0.0	0.0	1.6	5.3	5/30/2017 13:37
94	Exterior	Groton	058-203	push button		Metal	Green	Intact	0.0	0.0	2.0	6.2	5/30/2017 13:41
95	Exterior	Groton	058-203	ctrl box		Metal	Grey	Intact	0.0	0.0	1.0	3.8	5/30/2017 13:44
96	Exterior	Groton	058-256	push button		Metal	Yellow	Intact	0.6	0.1	1.0	3.9	5/30/2017 14:09
97	Exterior	Groton	058-256	push button		Metal	Yellow	Intact	0.7	0.1	1.1	9.7	5/30/2017 14:10
98	Exterior	Groton	058-256	push button		Metal	Yellow	Intact	0.7	0.1	1.1	1.4	5/30/2017 14:10
99	Exterior	Groton	058-256	push button		Metal	Yellow	Intact	0.7	0.1	1.0	20.4	5/30/2017 14:12
100					VOID								
101	Exterior	Groton	058-256	push button		Metal	Yellow	Intact	0.0	0.0	2.1	3.2	5/30/2017 14:16
102	Exterior	Groton	058-256	ctrl box		Metal	Grey	Intact	0.0	0.0	1.0	2.4	5/30/2017 14:21
103			0.0 calibration						0.0	0.1	3.0	1.7	5/30/2017 14:29
104			3.6 calibration						3.5	0.6	1.3	2.2	5/30/2017 14:29
105			0.3 calibration						0.3	0.1	1.0	5.3	5/30/2017 14:30
106			Self-Calibration						0.0	0.0	1.2	2.4	5/31/2017 8:30
107			0.0 calibration						3.5	0.3	1.3	5.4	5/31/2017 8:31
108			3.6 calibration						0.3	0.1	1.0	3.9	5/31/2017 8:32
109			0.3 calibration						0.0	0.0	1.6	4.3	5/31/2017 8:38
110	Exterior	Middletown	int 082-249	push button		Metal	Yellow	Intact	0.0	0.0	1.0	21.6	5/31/2017 8:42
111					VOID								
112	Exterior	Middletown	int 082-249	walk signal hood		Metal	Yellow	Intact	0.0	0.0	2.3	20.4	5/31/2017 8:38
113	Exterior	Middletown	int 082-249	walk signal hood		Metal	Black	Intact	0.0	0.0	1.0	1.7	5/31/2017 8:39
114	Exterior	Middletown	int 082-249	ctrl box		Metal	grey	Intact	0.0	0.0	1.0	5.1	5/31/2017 8:40
115	Exterior	Middletown	int 082-249	push button		Metal	Green	Intact	0.0	0.0	1.0	21.6	5/31/2017 8:42
116					VOID								
117	Exterior	Middletown	int 082-248	push button		Metal	yellow	Intact	0.0	0.0	6.9	20.4	5/31/2017 9:08
118	Exterior	Middletown	int 082-248	push button		Metal	yellow	Intact	0.0	0.0	1.0	0.2	5/31/2017 9:08
119	Exterior	Middletown	int 082-248	walk sigtl hood		Metal	yellow	Intact	0.0	0.0	3.2	21.6	5/31/2017 9:08
120	Exterior	Middletown	int 082-248	walk sigtl hood		Metal	Black	Intact	0.0	0.0	1.0	1.4	5/31/2017 9:09
121	Exterior	Middletown	int 082-248	ctrl box		Metal	Grey	Intact	0.0	0.0	1.0	3.4	5/31/2017 9:11
122	Exterior	Middletown	int 082-248	ctrl box		Metal	Grey	Intact	0.0	0.0	1.0	2.8	5/31/2017 9:11
123	Exterior	Cochester	int 028-209	push button		Metal	Green	Intact	0.0	0.0	1.7	3.8	5/31/2017 10:33
124					VOID								
125	Exterior	Cochester	int 028-209	walk sigtl hood		Metal	Green	Intact	0.0	0.0	1.0	1.2	5/31/2017 10:34
126	Exterior	Cochester	int 028-209	walk sigtl hood		Metal	Black	Intact	0.0	0.0	1.0	1.0	5/31/2017 10:35
127	Exterior	Cochester	int 028-209	ctrl box		Metal	Grey	Intact	0.0	0.0	1.0	3.2	5/31/2017 10:40
128	Exterior	East Hampton	int 041-20	push button		Metal	Green	Intact	0.0	0.0	1.0	3.4	5/31/2017 12:01
129	Exterior	East Hampton	int 041-20	light hood		Metal	Green	Intact	0.0	0.0	1.6	3.2	5/31/2017 12:03
130	Exterior	East Hampton	int 041-20	ctrl box		Metal	Grey	Intact	0.0	0.0	1.0	4.6	5/31/2017 12:05
131			0.0 calibration						0.0	0.0	1.0	1.2	5/31/2017 12:20
132			3.6 calibration						3.2	0.6	1.3	2.2	5/31/2017 12:20
133			0.3 calibration						0.3	0.1	1.2	5.6	5/31/2017 12:20



Client: Mr. Greg Kaczynski
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

Analytical Report

CET# 7060057

Report Date: June 06, 2017
Project: CTDOT
Project Number: Traffic Control Signals District 1 + 2
PO Number: 222165.5367.00710

Connecticut Laboratory Certificate: PH 0116
Massachusetts laboratory Certificate: M-CT903



New York NELAP Accreditation: 11982
Rhode Island Certification: 199

SAMPLE SUMMARY

The sample(s) were received at 25.4°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
01 028-209	7060057-01	Paint Chip	5/31/2017 11:34	06/02/2017
03 028-209	7060057-02	Paint Chip	5/31/2017 11:35	06/02/2017
04 028-209	7060057-03	Paint Chip	5/31/2017 11:40	06/02/2017
05 041-205	7060057-04	Paint Chip	5/31/2017 13:07	06/02/2017
07 041-205	7060057-05	Paint Chip	5/31/2017 13:00	06/02/2017
08 058-201	7060057-06	Paint Chip	5/30/2017 13:32	06/02/2017
10 058-201	7060057-07	Paint Chip	5/30/2017 14:02	06/02/2017
12 058-201	7060057-08	Paint Chip	5/30/2017 13:39	06/02/2017
13 058-203	7060057-09	Paint Chip	5/30/2017 14:37	06/02/2017
15 058-203	7060057-10	Paint Chip	5/30/2017 14:33	06/02/2017
16 058-203	7060057-11	Paint Chip	5/30/2017 14:25	06/02/2017
17 058-210	7060057-12	Paint Chip	5/30/2017 11:15	06/02/2017
19 058-210	7060057-13	Paint Chip	5/30/2017 11:30	06/02/2017
20 058-211	7060057-14	Paint Chip	5/30/2017 10:45	06/02/2017
22 058-236	7060057-15	Paint Chip	5/30/2017 12:08	06/02/2017
24 058-224	7060057-16	Paint Chip	5/30/2017 10:00	06/02/2017
25 058-256	7060057-17	Paint Chip	5/30/2017 15:15	06/02/2017
27 058-256	7060057-18	Paint Chip	5/30/2017 15:10	06/02/2017
28 082-248	7060057-19	Paint Chip	5/31/2017 10:15	06/02/2017
30 082-248	7060057-20	Paint Chip	5/31/2017 10:15	06/02/2017
31 082-248	7060057-21	Paint Chip	5/31/2017 10:10	06/02/2017
32 082-249	7060057-22	Paint Chip	5/31/2017 9:35	06/02/2017
33 082-249	7060057-23	Paint Chip	5/31/2017 9:30	06/02/2017
35 082-249	7060057-24	Paint Chip	5/31/2017 9:40	06/02/2017
36 082-249	7060057-25	Paint Chip	5/31/2017 9:38	06/02/2017

Analyte: Total Lead [EPA 6010C]

Analyst: SS

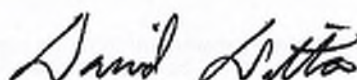
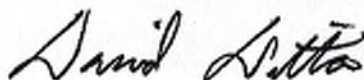
Matrix: Paint Chip

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
7060057-01	01 028-209	ND	0.10	%	1	B7F0530	06/05/2017	06/05/2017 18:51	
7060057-02	03 028-209	ND	0.10	%	1	B7F0530	06/05/2017	06/05/2017 18:56	
7060057-03	04 028-209	ND	0.10	%	1	B7F0530	06/05/2017	06/05/2017 19:01	
7060057-04	05 041-205	ND	0.10	%	1	B7F0530	06/05/2017	06/05/2017 19:05	
7060057-05	07 041-205	ND	0.10	%	1	B7F0530	06/05/2017	06/05/2017 19:09	
7060057-06	08 058-201	ND	0.10	%	1	B7F0530	06/05/2017	06/05/2017 19:14	
7060057-07	10 058-201	ND	0.10	%	1	B7F0530	06/05/2017	06/05/2017 19:18	
7060057-08	12 058-201	ND	0.10	%	1	B7F0530	06/05/2017	06/05/2017 19:23	
7060057-09	13 058-203	ND	0.10	%	1	B7F0530	06/05/2017	06/05/2017 19:27	
7060057-10	15 058-203	ND	0.10	%	1	B7F0530	06/05/2017	06/05/2017 19:32	
7060057-11	16 058-203	ND	0.10	%	1	B7F0530	06/05/2017	06/05/2017 19:45	
7060057-12	17 058-210	ND	0.10	%	1	B7F0530	06/05/2017	06/05/2017 19:49	
7060057-13	19 058-210	ND	0.10	%	1	B7F0530	06/05/2017	06/05/2017 19:54	
7060057-14	20 058-211	ND	0.10	%	1	B7F0530	06/05/2017	06/05/2017 19:58	
7060057-15	22 058-236	ND	0.10	%	1	B7F0530	06/05/2017	06/05/2017 20:03	
7060057-16	24 058-224	ND	0.10	%	1	B7F0530	06/05/2017	06/05/2017 20:07	
7060057-17	25 058-256	ND	0.10	%	1	B7F0531	06/05/2017	06/05/2017 20:16	
7060057-18	27 058-256	ND	0.10	%	1	B7F0531	06/05/2017	06/05/2017 20:21	
7060057-19	28 082-248	ND	0.10	%	1	B7F0531	06/05/2017	06/05/2017 20:25	
7060057-20	30 082-248	ND	0.10	%	1	B7F0531	06/05/2017	06/05/2017 20:38	
7060057-21	31 082-248	ND	0.10	%	1	B7F0531	06/05/2017	06/05/2017 20:43	
7060057-22	32 082-249	ND	0.10	%	1	B7F0531	06/05/2017	06/05/2017 20:47	
7060057-23	33 082-249	ND	0.10	%	1	B7F0531	06/05/2017	06/05/2017 20:52	
7060057-24	35 082-249	ND	0.10	%	1	B7F0531	06/05/2017	06/05/2017 20:56	
7060057-25	36 082-249	ND	0.10	%	1	B7F0531	06/05/2017	06/05/2017 21:01	

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by David Ditta



David Ditta
Laboratory Director

Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

RL is the Reporting Limit.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

CET #: 7060057

Project: CTDOT

Project Number: Traffic Control Signals District 1 + 2

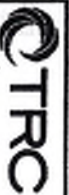
CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 6916C in Solid</i>	
Lead	CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2018



21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

TCLP CHAIN OF CUSTODY



7060057

Edition: November 2013
Supersede Previous Edition

1 of 4

PROJECT NUMBER
222165-5367.00710

PROJECT NAME
Cond 01 - Traffic Cont'l
Sink District 142

PARAMETERS

TURNAROUND TIME

24hr	<input checked="" type="checkbox"/>	48hr		3day		5day
24hr		48hr		3day		5day

INSPECTOR: (SIGNATURE)
[Signature]

(PRINTED)
Gregory Kaczmarek

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	RCRA Pb	RCRA Pb, AS, CR, CD	8 RCRA Metals	TCLP Pb	SPLP Pb	Total Pb	MATERIAL
			COMP	GRAB								
01	5/31/17	1134	X		028-209				X			grey control box paint
02		1134	X									↓
03		1135	X						X			green push button paint
04		1140	X						X			black wall signal head
05		1307	X		041-205				X			grey control box paint
06		1307	X						X			↓
07		1300	X						X			green push button head paint
08	5/30/17	1332	X		058-201				X			grey control box paint
09		1332	X						X			↓
10		1402	X						X			yellow control paint
11		1402	X						X			↓

Gregory Kaczmarek

Relinquished by: (Signature) <i>[Signature]</i>	Date:	Received by: (Signature) <i>[Signature]</i>	Date:	Relinquished by: (Signature) <i>[Signature]</i>	Date:	Received by: (Signature) <i>[Signature]</i>
(Printed) Gregory Kaczmarek	Time:	(Printed) Gregory Kaczmarek	Time:	(Printed) Gregory Kaczmarek	Time:	(Printed) R. J. Cabot

IF (01) ~~has no lead~~, do not analyze (02). IF (05) has lead, do not analyze (06). IF (08) has no lead, do not analyze (09). IF (10) has no lead, do not analyze (11).

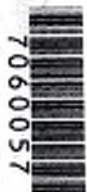


21 GRIFFIN ROAD NORTH

WINDSOR, CONNECTICUT 06095

TELEPHONE (860) 298-9692

FAX (860) 298-6380



7060057

TCLP CHAIN OF CUSTODY

Edition: November 2013
Supersede Previous Edition

2 of 2

Page 7 of 9

LAB ID #

TURNAROUND TIME

24hr	<input checked="" type="checkbox"/>	48hr	<input type="checkbox"/>	3day	<input type="checkbox"/>	5day	<input type="checkbox"/>
24hr	<input type="checkbox"/>	48hr	<input type="checkbox"/>	3day	<input type="checkbox"/>	5day	<input type="checkbox"/>

PROJECT NUMBER
22165-5367.00710PROJECT NAME
Cond of - In the Curb /
Spoke District #2

PARAMETERS

INSPECTOR: (SIGNATURE)

(PRINTED)

Gregory Kaczynski

FIELD
SAMPLE
NUMBER

DATE

TIME

TYPE
COMP
GRAB

SAMPLE LOCATION

RCRA Pb

RCRA Pb, AS, CR,
CD

8 RCRA Metals

TCLP Pb

SPLP Pb

MATERIAL

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	RCRA Pb	RCRA Pb, AS, CR, CD	8 RCRA Metals	TCLP Pb	SPLP Pb	Total Pb	MATERIAL
			COMP	GRAB								
12	5/30/17	1339	X		058-201						X	yellow push button paint
13		1437	X		058-203						X	grey control box paint
14		1437	X								X	green push button paint
15		1433	X								X	yellow " " "
16		1425	X								X	grey control box paint
17		1115	X		058-210						X	grey control box paint
18		1115	X								X	green push button paint
19		1130	X								X	grey control box paint
20		1045	X		058-211						X	grey control box paint
21		1045	X		22						X	

YBND R 25.90

Relinquished by: (Signature)

Date:

Received by: (Signature)

Relinquished by: (Signature)

Date:

Received by: (Signature)

(Printed)

Time:

(Printed)

(Printed)

Time:

(Printed)

Gregory Kaczynski

1730

R. Blahs

(13)

has no

lead

do not

analyze

(14)

If

(17)

has no lead do not analyze

(21)

has

no lead

do not

analyze

(18)

If

(20)

has no lead do not analyze

(21)

has no lead do not analyze

(21)

Page 1 of 1



7060057

3 of 2



21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

Edition: November 2013
Supersede Previous Edition

TCLP CHAIN OF CUSTODY

PROJECT NUMBER
222165-5367.00710

PROJECT NAME
Control - 1 muffle Control
Synk District Lot 2

LAB ID #

TURNAROUND TIME	
24hr	48hr
3day	3day
5day	5day

INSPECTOR: (SIGNATURE)

(PRINTED)
Gregory Kaczynski

PARAMETERS	
RCRA Pb	
RCRA Pb, AS, CR, CD	
8 RCRA Metals	
TCLP Pb	
SPLP Pb	

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	MATERIAL
			CONF	GRAB		
22	5/30/10	1208	X	X	058-236	Grey control box paint
23		1208	X	X		
24		1000	X	X	058-224	green push button paint
25		1515	X	X	058-256	Grey control box paint
26		1515	X	X		
27		1510	X	X		
28	5/31/17	1015	X	X	082-248	yellow push button paint
29		1015	X	X		silver control box paint
30		1006	X	X		black mtlk sign/hood paint
31		1010	X	X		Yellow Push Button/hall sign/hall post
32	5/31/17	0935	X	X	082-249	yellow push button/hood paint

Relinquished by: (Signature)

Received by: (Signature)
Robert Perazich

Relinquished by: (Signature)
Robert Perazich

Received by: (Signature)
R. Blau J.

(Printed)
Gregory Kaczynski

(Printed)
Robert Perazich

(Printed)
Robert Perazich

(Printed)
R. Blau J.

If sample has no lead do not analyze sample. If sample has lead do not analyze sample.
If sample has no lead do not analyze sample. If sample has lead do not analyze sample.

TEMP N 254



7060057

4 of 4



21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

TCLP CHAIN OF CUSTODY

Edition: November 2013
Supersede Previous Edition

LAB ID #.		TURNAROUND TIME			
24hr	<input checked="" type="checkbox"/>	48hr	<input checked="" type="checkbox"/>	3day	<input type="checkbox"/>
24hr	<input type="checkbox"/>	48hr	<input type="checkbox"/>	3day	<input type="checkbox"/>
				5day	<input type="checkbox"/>

FIELD SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	PARAMETERS				MATERIAL
					RCRA Pb	RCRA Pb, AS, CR, CD	8 RCRA Metals	TCLP Pb	
33	05/31/17	0930	X	082-249				X	silver control box pad
34		0930	X	I		X		X	I
35		0940	X	I				X	green push button part
36		0938	X	I				X	black " " head part

PROJECT NAME
Control - Traffic Control
Signs District 202

INSPECTOR: (SIGNATURE)
[Signature]

INSPECTOR: (PRINTED)
Gregory Kaczynski

Relinquished by: (Signature) <i>[Signature]</i>	Date:	Received by: (Signature) <i>[Signature]</i>	Date:	Relinquished by: (Signature) <i>[Signature]</i>	Date:	Received by: (Signature) <i>[Signature]</i>	Date:
(Printed) Gregory Kaczynski		(Printed) KAREN PERAMON	6-2-17	(Printed) KAREN PERAMON	6-2-17	(Printed) KAREN PERAMON	6-2-17

9288 N 25.40

I-f (33) has no lead, do not analyze (34)



Client: Mr. Stephen Arienti
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

Analytical Report

CET# 7050717R

Report Date: May 30, 2017
Project: CT-DOT, Signal
Project Number: District 1 + 2 Signals
PO Number: 222165.5367.0710

Connecticut Laboratory Certificate: PH 0116
Massachusetts laboratory Certificate: M-CT903



New York NELAP Accreditation: 11982
Rhode Island Certification: 199

CET #: 7050717

Project: CT-DOT, Signal

Project Number: District 1 + 2 Signals

SAMPLE SUMMARY

The sample(s) were received at 24.5°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
01 Bolton 012-201 Push Button	7050717-01	Paint Chip	5/23/2017 9:40	05/24/2017
02 Bolton 012-201 Ctrl Box	7050717-02	Paint Chip	5/23/2017 9:50	05/24/2017
03 Putnam 115-216 Push Button	7050717-03	Paint Chip	5/23/2017 11:43	05/24/2017
04 Putnam 115-216 Walk Signal	7050717-04	Paint Chip	5/23/2017 11:44	05/24/2017
05 Putnam 115-216 Cntrl Box	7050717-05	Paint Chip	5/23/2017 11:36	05/24/2017
06 Putnam 115-201 Push Button	7050717-06	Paint Chip	5/23/2017 13:30	05/24/2017
07 Putnam 115-201 Walk Signal	7050717-07	Paint Chip	5/23/2017 13:25	05/24/2017
08 Putnam 115-201 Cntrl Box	7050717-08	Paint Chip	5/23/2017 13:43	05/24/2017
09 Plainfield 108-208 Push Button	7050717-09	Paint Chip	5/23/2017 14:27	05/24/2017
10 Plainfield 108-208 Walk Signal	7050717-10	Paint Chip	5/23/2017 14:22	05/24/2017
11 Plainfield 108-208 Cntrl Box	7050717-11	Paint Chip	5/23/2017 14:20	05/24/2017
12 Bolton 012-201 Stop Ahead Pole	7050717-12	Paint Chip	5/23/2017 10:15	05/24/2017

CET #: 7050717

Project: CT-DOT, Signal

Project Number: District 1 + 2 Signals

Analyte: Total Lead [EPA 6010C]

Analyst: SS

Prep: EPA 3050B

Matrix: Paint Chip

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
7050717-01	01 Bolton 012-201 Push Button	ND	0.10	%	1	B7E2503	05/25/2017	05/25/2017 13:57	
7050717-02	02 Bolton 012-201 Ctrl Box	ND	0.10	%	1	B7E2503	05/25/2017	05/25/2017 14:01	
7050717-03	03 Putnam 115-216 Push Button	ND	0.10	%	1	B7E2503	05/25/2017	05/25/2017 14:05	
7050717-04	04 Putnam 115-216 Walk Signal	ND	0.10	%	1	B7E2503	05/25/2017	05/25/2017 14:10	
7050717-05	05 Putnam 115-216 Ctrl Box	ND	0.10	%	1	B7E2503	05/25/2017	05/25/2017 14:14	
7050717-06	06 Putnam 115-201 Push Button	ND	0.10	%	1	B7E2503	05/25/2017	05/25/2017 14:19	
7050717-07	07 Putnam 115-201 Walk Signal	ND	0.10	%	1	B7E2503	05/25/2017	05/25/2017 14:23	
7050717-08	08 Putnam 115-201 Ctrl Box	ND	0.10	%	1	B7E2503	05/25/2017	05/25/2017 14:36	
7050717-09	09 Plainfield 108-208 Push Button	ND	0.10	%	1	B7E2503	05/25/2017	05/25/2017 14:41	
7050717-10	10 Plainfield 108-208 Walk Signal	ND	0.10	%	1	B7E2503	05/25/2017	05/25/2017 14:45	
7050717-11	11 Plainfield 108-208 Ctrl Box	ND	0.10	%	1	B7E2503	05/25/2017	05/25/2017 14:50	

CET # : 7050717

Project: CT-DOT, Signal

Project Number: District 1 + 2 Signals

Analyte: TCLP Lead [EPA 6020A]

Analyst: SS

Prep: EPA 3005A-1311

Matrix: Extract

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
7050717-12	12 Bolton 012-201 Stop Ahead Pole	0.32	0.013	mg/L	1	B7E2534	05/25/2017	05/26/2017 15:22	

CASE NARRATIVE

Revision: Original report dated 05/26/2017, changed reporting limits for total lead samples per client request.

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Robert Blake

David Ditta
Laboratory Director

Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

RL is the Reporting Limit.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

CET # : 7050717

Project: CT-DOT, Signal

Project Number: District 1 + 2 Signals

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 6010C in Solid</i>	
Lead	CT
<i>EPA 6020A in Water</i>	
Lead	NY,CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2018
NY	New York Certification (NELAC)	11982	04/01/2018



21 GRIFFIN ROAD NORTH

WINDSOR, CONNECTICUT 06095

TELEPHONE (860) 298-9692

FAX (860) 298-6380

TCLP CHAIN OF CUSTODY



7050717

Edition: November 2013
Supersede Previous Edition

FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	PARAMETERS					MATERIAL		
			COMP	GRAB		RCRA Pb	RCRA Pb, AS, CR, CD	8 RCRA Metals	TCLP Pb	SPLP Pb		Total Lead	
01	5/23/17	0940	X	X	Bolton # 012-201 Post Box							Paint	green
02		0950		Y	" " Control Box								gray
03		1143	X	X	Putnam # 15-216 Post Box								green
04		1144	X	X	Wall Signal Cover								green
05		1136	X	X	Control Box								gray
06		1330	X	X	Putnam # 15-201 Post Box								green
07		1325	X	X	Wall Signal Cover								green
08		1343	X	X	Control Box								gray
09		1427	X	X	Plainfield # 108-208 Post Box								green
10		1422	X	X	Wall Signal Cover								green
11		1420	X	X	Control Box								gray
12		1615	X	X	Bolton # 012-201 Stoppered Pole								tan/blue

LAB ID #

TURNAROUND TIME

<input checked="" type="checkbox"/>	24hr	48hr	3day	5day
<input type="checkbox"/>	24hr	48hr	3day	5day

INSPECTOR: (SIGNATURE)
Kelly Grey(PRINTED)
Kelly GreyPROJECT NUMBER: 222165-5367-0710
PROJECT NAME: DOT - District 1+2 SignalsRelinquished by: (Signature)
*Kelly Grey*Date: 5/23/17
Time: 17:30Received by: (Signature)
Robert Verlander

(Printed) 52417 1105

Relinquished by: (Signature)
Robert Verlander

(Printed) 52417 1105

Date:

Time: 19:00

Received by: (Signature)
Robert Verlander

(Printed) 52417 1105

* Results to S/A: orient @ resolutions on
* If samples are positive for Pb then analyze 13, 14, 15, 16 respectively for TCLP Pb

TEMP N 84.5



21 GRIFFIN ROAD NORTH

WINDSOR, CONNECTICUT 06095

TELEPHONE (860) 298-9692

FAX (860) 298-6380

TCLP CHAIN OF CUSTODY

Edition: November 2013
Supersede Previous Editions

PROJECT NUMBER

222105.5367.0710

PROJECT NAME

DOT-District 1+2 Signal

PARAMETERS

TURNAROUND TIME

<input checked="" type="checkbox"/>	24hr	48hr	3day	5day
<input type="checkbox"/>	24hr	48hr	3day	5day

LAB ID #.

INSPECTOR: (SIGNATURE)

Kelly Gray

(PRINTED)

Kelly Gray

FIELD SAMPLE NUMBER

13 5/23/17 6:15:50

14 1136

15 1343

16 1420

TYPE

COMP

GRAB

SAMPLE LOCATION

RCRA Pb

RCRA Pb, AS, CR, CD

8 RCRA Metals

TCLP Pb

SPLP Pb

MATERIAL

Paint

Grey

X Bolton # 012-201 Control Box

X Putman #115216 Control Box

X Putman #115-201 Control Box

X Plainfield # 108-208 Control Box

Relinquished by: (Signature)

Kelly Gray

Date:

5/23/17

Received by: (Signature)

Rubber Berghauer

Relinquished by: (Signature)

Rubber Berghauer

Date:

5/24/17

Received by: (Signature)

Bobin

(Printed)

Kelly Gray

Time:

17:30

(Printed)

Rubber Berghauer

(Printed)

Rubber Berghauer

Time:

1:50

(Printed)

Bobin

* See pg 1 note *

Client: Mr. Greg Kaczynski
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

Analytical Report

CET# 7060208

Report Date: June 12, 2017
Project: CTDOT
Project Number: Traffic Control Signals District 1 + 2
PO Number: 222165.5367.00710

Connecticut Laboratory Certificate: PH 0116
Massachusetts laboratory Certificate: M-CT903



New York NELAP Accreditation: 11982
Rhode Island Certification: 199

CET # : 7060208

Project: CTDOT

Project Number: Traffic Control Signals District 1 + 2

SAMPLE SUMMARY

The sample(s) were received at 25.4°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
11 058-201	7060208-01	Paint Chip	5/30/2017 14:02	06/02/2017

Analyte: TCLP Lead [EPA 6020A]

Analyst: SFJ

Prep: EPA 3005A-1311

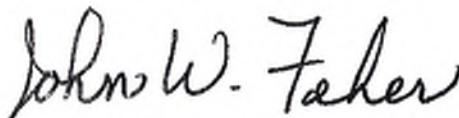
Matrix: Extract

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
7060208-01	11 058-201	1.5	0.013	mg/L	1	B7F1207	06/12/2017	06/12/2017 12:22	

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by John Feher



David Ditta
Laboratory Director

Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

RL is the Reporting Limit.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 6920A in Water</i>	
Lead	NYCT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2018
NY	New York Certification (NELAC)	11982	04/01/2018

Jacqueline M. Bakos



From: Dawn Jones
Sent: Thursday, June 08, 2017 2:03 PM
To: Kaczynski, Gregory
Cc: Arienti, Stephen; Jacqueline M. Bakos
Subject: RE: CET#7060057

Hi Gregory,

I will copy in Jacqui to assist with the add on.

Dawn

From: Kaczynski, Gregory [mailto:GKaczynski@trcsolutions.com]
Sent: Thursday, June 08, 2017 1:56 PM
To: Dawn Jones
Cc: Arienti, Stephen
Subject: RE: CET#7060057

Hello Dawn,

Could you please run sample #11 for Lead TCLP analysis for 48 hr TAT from the attached data set.

Sincerely,

Gregory Kaczynski
Project Manager/Senior Industrial Hygienist



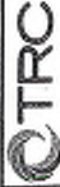
21 Griffin Road North, Windsor, CT 06095
T: 860.298.6294 | F: 860.298.6380 | C: 860.810.6295

[LinkedIn](#) | [Twitter](#) | [Blog](#) | [Flickr](#) | www.trcsolutions.com

From: Dawn Jones [mailto:djones@cetlabs.com]
Sent: Tuesday, June 06, 2017 3:09 PM
To: Kaczynski, Gregory <GKaczynski@trcsolutions.com>
Subject: CET#7060057

Your report from Complete Environmental Testing is attached. These results will also be available on our Client Connect portal results.cetlabs.com

Dawn Jones
Administrative Assistant
Complete Environmental Testing, Inc.



21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

Edition: October 2009
Supersede Previous Edition

LAB ID #: 50667

PROJECT NUMBER	PROJECT NAME	PARAMETERS				TURNAROUND TIME								
		PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 1984 (IF PLM SERIES NEG)	PLM:	TEM:	8hr	24hr	48hr	3day	5day	
222165.5367.070	DOT - District 172 signs													
INSPECTOR Kelly Grey														
SIGNATURE <i>Kelly Grey</i>														
FIELD SAMPLE NUMBER	DATE	TIME	TYPE		SAMPLE LOCATION	MATERIAL								
			COMP	GRAB		ESJ - fiber expansion joint around NE walk pedestal								
01	5/23/17	1150	X	X	Putnam Int 115-216 NE walk	X								
02	↓	1150	X	X	↓ pedestal	X								

Relinquished by: (Signature) <i>Kelly Grey</i>	Date: 5/23/17	Received by: (Signature) <i>[Signature]</i>	Date: 5/24/17
(Printed) Kelly Grey	Time: 1445	(Printed) Cathy Lamira	Time: 0815
Remarks: Results to Steve Armenti.	Condition of Samples: Acceptable: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
	Comments:		

BULK ASBESTOS ANALYSIS REPORT

CLIENT: CT Department of Transportation

Lab Log #: 0050667
Project #: 222165.5367.0710
Date Received: 05/24/2017
Date Analyzed: 05/24/2017

Site: District 1 and 2 signals

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
01	Dark Brown (fiber expansion joint)	Yes	No	--	80% cellulose	ND	None
02	Dark Brown (fiber expansion joint)	Yes	No	--	80% cellulose	ND	None

Reporting limit- asbestos present at 1%

ND - asbestos was not detected

Trace - asbestos was observed at level of less than 1%

NA/PS - Not Analyzed / Positive Stop

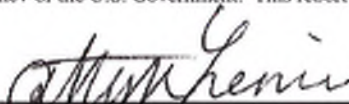
SNA- Sample Not Analyzed- See Chain of Custody for details

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, EPA recommends, and certain states (e.g. NY) require, that negative results be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation 1982 (EPA 600/M4-82-020) Bulk Analysis Code 18/A01 and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials July 1993, R.L. Perkins and B.W. Harvey, (EPA/600/R-93/116) Bulk Analysis Code 18/A03, which utilize polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2017. TRC is accredited by the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC in the Industrial Hygiene Program (IHLAP) for PLM effective through October 1, 2018. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and QC data related to the samples is available upon written request from client.

This report shall not be reproduced, except in full, without the written approval of TRC. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested.

Analyzed by:


Cathryn Lemire, Laboratory Analyst

Reviewed by:


Kathleen Williamson, Laboratory Manager

Date Issued

05/24/2017

TRC LABORATORY ASBESTOS ANALYTICAL ACCREDITATIONS

NVLAP Lab Code 101424-0
RI #AAL-007 TX #300354
CO# AL-15020

AIHA-LAP, LLC #100122
VT #AL014538 LA#05011
PHIL# 461

CT #PH-0426
VA #3333 000283
PA#68-03387

ME LA-0075, LB-0071
AZ #A20944

MA #AA000052
HI #L-09-004

NY #10980 WV# LT000411
NJ #CT004 CA #2907



SUBJECT

DOT Traffic Signals District 102

SHEET NO. _____ OF _____
PROJECT NO. 272165.5367.0110
DATE 5/23/17
BY KG + EG
CHK'D _____✓ • Bolton Int 012-201

- 2 Push Buttons, 1 control Box (-) Telp + chip
galvanized posts remnant silicone caulk
1 yellow (+)
1 green (-) chip No SAcM

- Stop Ahead Pole on the street (21710) - cantilever Pole
- control Box (galvanized)
- + > 0.1 (Telp) No SAcM

• Putnam #115-216

- Control Box (-) - 3 galvanized walk pedestals + 1 on galvanized pole
- Silicone caulk - Telp chip - 2 lamp heads + push button on each
- Looks new. - NE + SW poles have traffic cameras attached on top.
(Both push buttons + walk signals (-) → Paint chip for end

ES1 - fiber expansion joint around NE walk pedestal / sidewalk

- 2nd control Box - power cable
- unpainted, silicone caulk

• Putnam #115-201

- 3 galvanized poles w/ walk signal + Push Button (1 each) ^{Paint chip}
- 2 wooden poles helping hold up (9) traffic signal lights
- 2 walk signal pedestals w/ push button (1 has 1 signal, 1 has 2 walk signals)
- Some false readings on walk signals, Paint chip - all redsted (-)
- Control box (-) Telp + chip No SAcM
- silicone caulk

24 PLM
TEAM
+
LOB



SUBJECT DOT - District 112 Signals

SHEET NO. _____ OF _____
PROJECT NO. 2221(05-5367-0710)
DATE 5/23/17
BY KG + EG
CHK'D _____

• Plainfield #108-208

- 1 Galvanized pole w/ 1 push button + 1 walk signal (-) ^{push} _{chip}
- 2 pedestals w/ push buttons (1 has 1 walk signal, 1 has 2 signals)
- control box (-) Top & chip
 - white silicone caulk

No S.A.C.M.

✓ • Griswold #057-201 * Mainst at K of C Drive *

- * Only 3 way flashing light (3 single lights)
- 2 wood poles
- small control box mounted on pole (+) no top
- * Polson try new control box pole *





SUBJECT

Traffic Signals District 42

SHEET NO. _____ OF _____

PROJECT NO. _____

DATE 5/3/17BY GK/EG

CHK'D _____

✓✓ 082-249 - Middleburg (Holmes Dr)

Span pole - stainless steel mast arm/pole, concrete base
- 8 light signal units

Control box - ~~non~~ silicone caulk at base
- silver paint - (C) - collect paint chip TCEP

push button/walk signal - stainless steel pole
- yellow push button - collect paint chip
- yellow/black head
- collect paint chip

push button/walk signal - stainless steel pole
- green push button sign - collect paint chip
- yellow/black head
- collect paint chip

✓✓ 082-248 -

- 2 push button walk signal - yellow paint on sign - collect paint chip
- yellow & black paint on head - collect paint chip

- span pole mast arm - stainless steel
- 6 light signal units

- control box - silicone caulk at base
- silver paint - collect paint chip TCEP



SUBJECT

Traffic Signals District 4+2

SHEET NO. _____ OF _____

PROJECT NO. _____

DATE 5/30/17 ~~5/31/17~~BY GK/EG

CHK'D _____

✓ Intersection 058-224 - Groden

- 2 stainless steel span poles - already inspected
- stainless steel control box - silicone caulk at base
- push button box for green light - yellow sign w/ stainless steel post
- " " " " " " - green sign w/ " " "
- collected paint chip

✓ Intersection 058-211 - Groden

- 1 wood + 1 stainless steel span pole - already inspected
- push button box for green light - yellow sign w/ stainless steel post
- control box - grey paint (-) - took TCLP + total Pb
 - silicone caulk
 - yellow painted push button for green light (+) - pressure same as other
- fire pit box - on wd side
 - red painted

✓ Intersection 058-210 - Groden

- 1 wood + 1 painted span pole - already inspected
- control box - grey paint (-) - took TCLP + total Pb
 - silicone caulk
- 2 push buttons for green light + walk signal
 - yellow sign on one + green on other
 - walk signal have yellow paint - pressure same as yellow sign
 - can't reach walk signal
 - took paint chip of green "push button"

✓ Intersection 058-236

- 1 wood + 1 stainless steel span pole (already inspected)
- 1 fire box (red) (+) O.I.
- 1 control box - grey paint (-) - took TCLP + Pb chip collected
 - silicone caulk
- Push button on span pole - yellow (+) - 0.5
- " " on stainless steel post - yellow



SUBJECT

Traffic Signals District 1d2

✓✓ [058-201] - Garden

- control box - grey paint (-) - took TCLP & total Pb
- silicone caulk
- all signs on "signal posts" are stainless steel channel posts
- push button on signal - stainless steel post, yellow paint (-) on push button post, collected paint chip
- upper signal yellow - propane can't read
- push button on span pole - yellow paint
- cantilever flasher sign post (off 95N ramp)
- yellow paint (+) 0.2 - took TCLP

✓ [058-203] - Garden

- push button - stainless steel post
- yellow sign (-) - took a paint chip
- push button on span pole - green sign (-) - took paint chip
- control box - grey paint (-) - took paint chip & TCLP
- silicone caulk

✓ [058-256] - Garden

- push button - stainless steel post
- yellow sign (+) 0.7
- push button on span pole - yellow (-) - took paint chip
- control box - silicone caulk
- grey paint (-) - took paint chip & TCLP



SUBJECT

Traffic signals District 4+2

✓ 040-201 - East Hudson

- stainless steel control box on wooden pole
- no span pole - ~~just~~
- 4 flashing lights hanging between wooden telegraph poles
- stainless steel channel posts w/ signs

✓ 028-209 - Colchabr

- 4 stainless steel span poles
- 2 ~~have~~ have green push button attached to green ^{link} hoards & signal lights ^{can't reach}
- A separate push button structure w/ hoard sign - green paint & black/brass ^{took paint chip} ^{took patchy}
- Control box
 - silicone caulk at base
 - light grey paint (-) - took TCLP & paint chip

✓ 041-205

- no individual span poles - light signal connected to telegraph poles
- 2 push buttons for walk signal - both green (-) ^{took paint chip}
- control box - ~~grey~~ - ~~grey~~ - grey - took paint chip & TCLP

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION



memorandum

subject: Hazardous/Contaminated Materials
Screening Request

Project Nos.: 0172-0435/0436
F.A.P. Nos.: 000R(884)/000R(900)
District's 1 and 2 Various Signal Project
Various Towns

date:

to: Adam G. Fox
Transportation Principal Engineer
Bureau of Engineering and Construction

from: Sunny D. Ezete 
Transportation Supervising Engineer
Bureau of Engineering and Construction

Sunny D. Ezete, P.E.
I am approving this document
2017.04.18 08:59:15-0400

This is a resubmittal of a previously reviewed hazardous/contaminated materials screening for this project. Due to a change in scope of the project, additional screening is needed. Please provide a revised hazardous/contaminated materials screening for this project and inform this office of any environmental concerns by **May 31, 2017**.

Project Schedule:

TCD: 06/14/17

FDP: 07/19/17

DCD: 08/30/17

ADV: 09/27/17

Federal Program: 0172-0435 – 100% SIPH
0172-0436 – 100% STPA

PE Funding: 100% Federal Funding, DOT01720435PE
100% Federal Funding, DOT01720436PE

Attached for your information and use are the following:

- Project Description
- Location Plans
- Existing signal plans indicating the location of the span/mast poles (red circles) and pedestrian push button pedestals (red squares) that need to be reviewed. Span poles that were screened in the previous review are noted with blue circles.
- Link to existing surveys: <X:\0172-0435-0436\Survey>

Right-of-Way will be required for this project. In most cases, the right of way will be used for the installation of signal equipment (span poles, pedestals, etc.), utility guys, and construction of ADA ramps.

This project does involve excavation activities. Excavation will be for the installation of signal equipment, i.e. span pole foundations, pedestal foundations, and ADA Ramps.

Please contact Antony Cieri, Project Engineer, at (860) 594-2761, should you have any questions or require additional information.

Please address your response to the attention of: Sunny D. Ezete, Project Manager – Antony Cieri, Project Engineer.

Attachments

Antony Cieri
cc: Tracy L. Fogarty – Sunny D. Ezete

Project Title: Installation of Traffic Control Signals in Districts 1 & 2

Project Numbers:

- DOT0172-0435PE and CN
- DOT0172-0436PE and CN

Detailed Project Description: Installation of traffic control signal equipment will require excavation of existing equipment as well as excavation for new foundations (span pole, mast arm, pedestal, controller cabinet, etc.) and trenching (i.e. conduit) as required. In addition to excavation for traffic signal equipment, excavation will be required for sidewalk ramps that will be installed or reconstructed to meet current ADA standards. In areas of an intersection where there is existing signal equipment, excavation will take place in areas that have undergone extensive ground disturbance in the past. In areas of an intersection where there is no existing signal equipment, excavation may be in areas where there may not have been extensive ground disturbance in the past. There is significantly less than one acre of disturbance for each location.

Purpose and Need Statement: This project will install new traffic control signal equipment, which may include span poles, mast arms, pedestals, signal heads, span wires, conduits, loops, signing and pavement markings and/or will upgrade the pedestrian control features, which may include pedestrian countdown heads, sidewalk ramps and sidewalk extensions, to meet current department standards and will remove existing equipment, as needed, at each intersection.

The intersections listed below will consist of new signal equipment being installed at existing state owned signalized locations:

- **Project 172-435:**
 - *Colchester – Route 85 at Halls Hill Road and Doctor Foote Road – Int. #028-209
 - *East Hampton – Route 66 at North Main Street and Main Street – Int. #041-205
 - Groton – Route 1 at Route 12 and Kings Highway – Int. #058-201
 - Groton – Route 184 at SR 614 (Cow Hill Road) and Pumpkin Hill Road – Int. #058-224
 - Middletown – Silver Street at Tynan Drive and Harvey Drive – Int. #082-248
 - Middletown – Silver Street at Holmes Drive – Int. #082-249
 - Putnam – Route 12 at South Main Street and School Street – Int. #115-201
 - *Putnam – Route 44 at Kennedy Drive – Int. #115-216

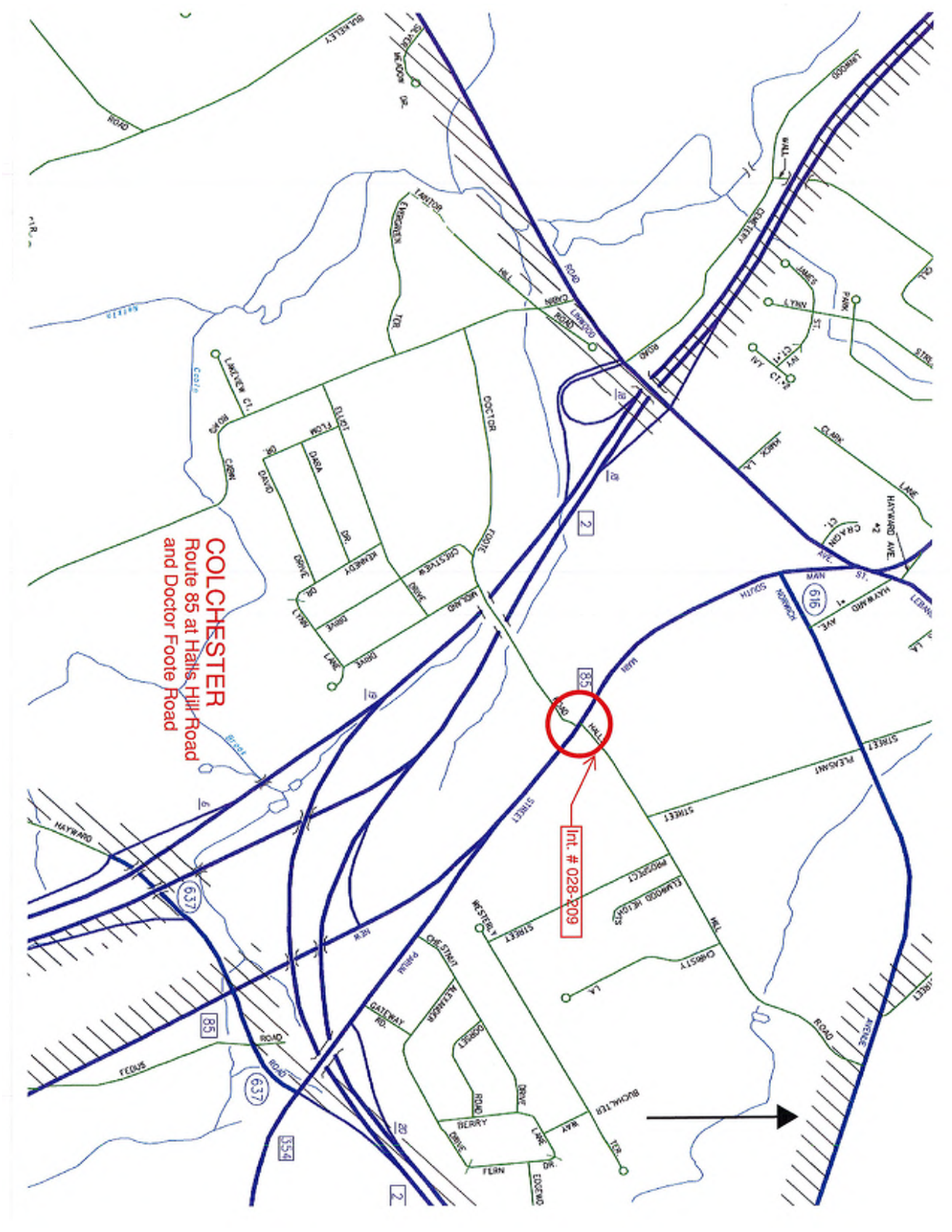
*Upgrading the pedestrian control features only

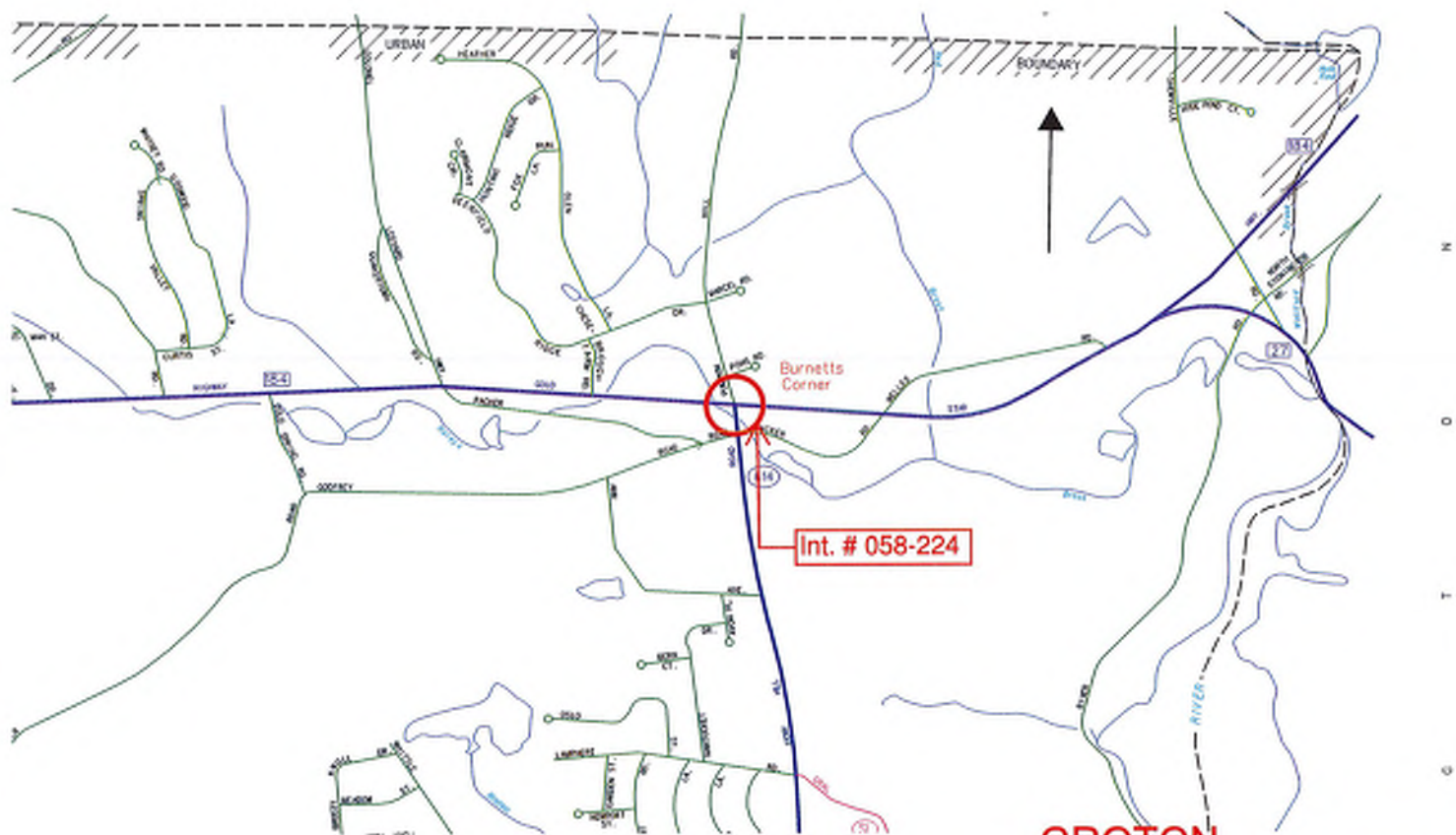
- **Project 172-436**
 - Bolton – Route 6 at Route 85 and SR 533 (Cider Mill Road) – Int. #012-201
 - East Haddam – Route 82 at Baker Lane – Int. #040-201
 - Griswold – Route 12 and Route 138 at K of C Drive – Int. #057-201
 - Groton – Route 12 at Pleasant Valley Road South and Groton Square Driveway – Int. #058-203
 - Groton – Route 1 (Poquonnock Road) at Buddington Road – Int. #058-210
 - Groton – Route 1 at SR 649 (South Road) – Int. #058-211
 - Groton – Route 1 (Long Hill Road) at Drozdyk Drive – Int. #058-236
 - Groton – Route 12 at Ohio Avenue – Int. #058-256
 - Plainfield – Route 12 at Route 14A and Cemetery Road – Int. #108-208

COLCHESTER
Route 85 at Halls Hill Road
and Doctor Foote Road

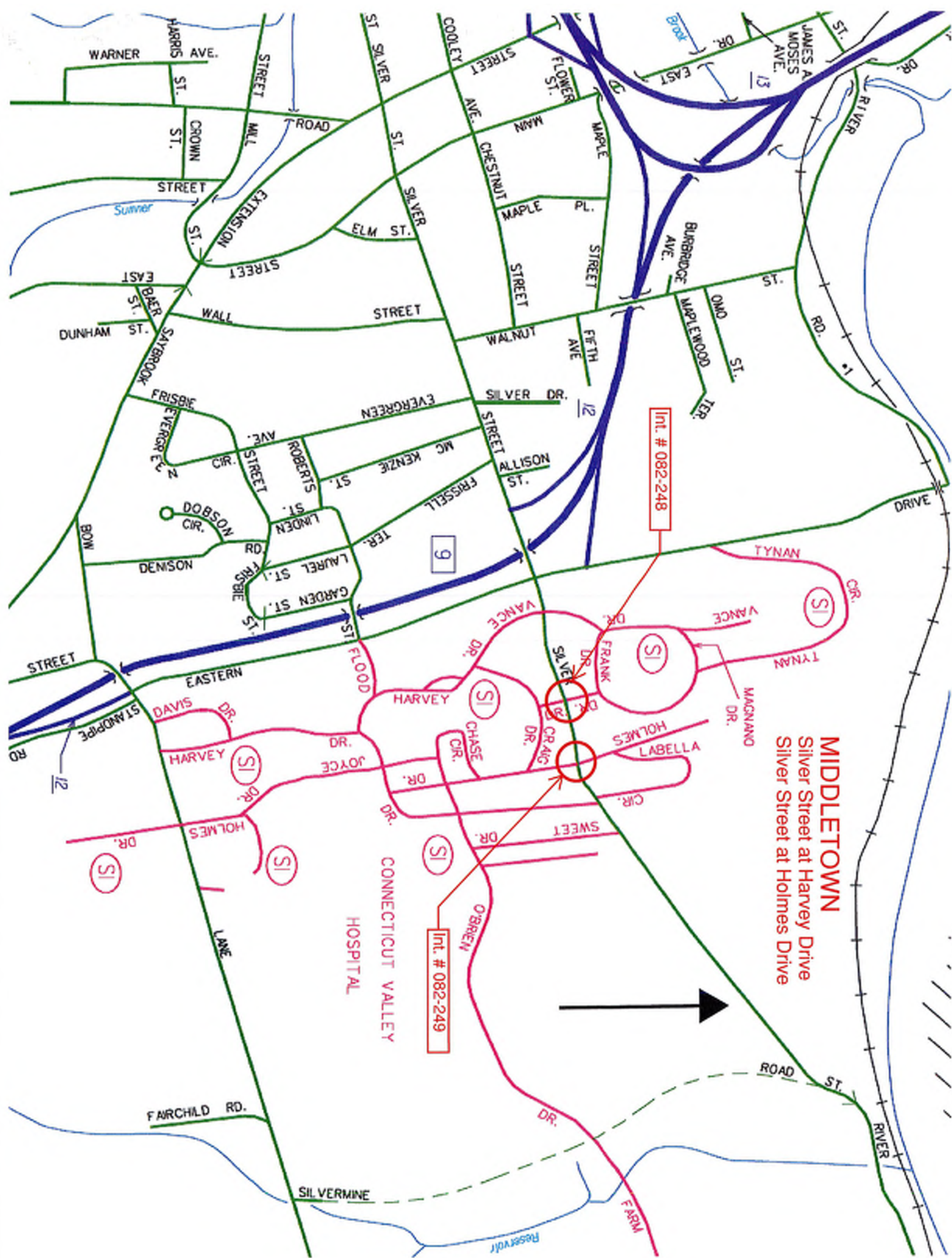


Int. # 028-P09





GROTON
Route 184 at Pumpkin Hill Rd
and SR 614 (Cow Hill Rd)



Int. # 082-248

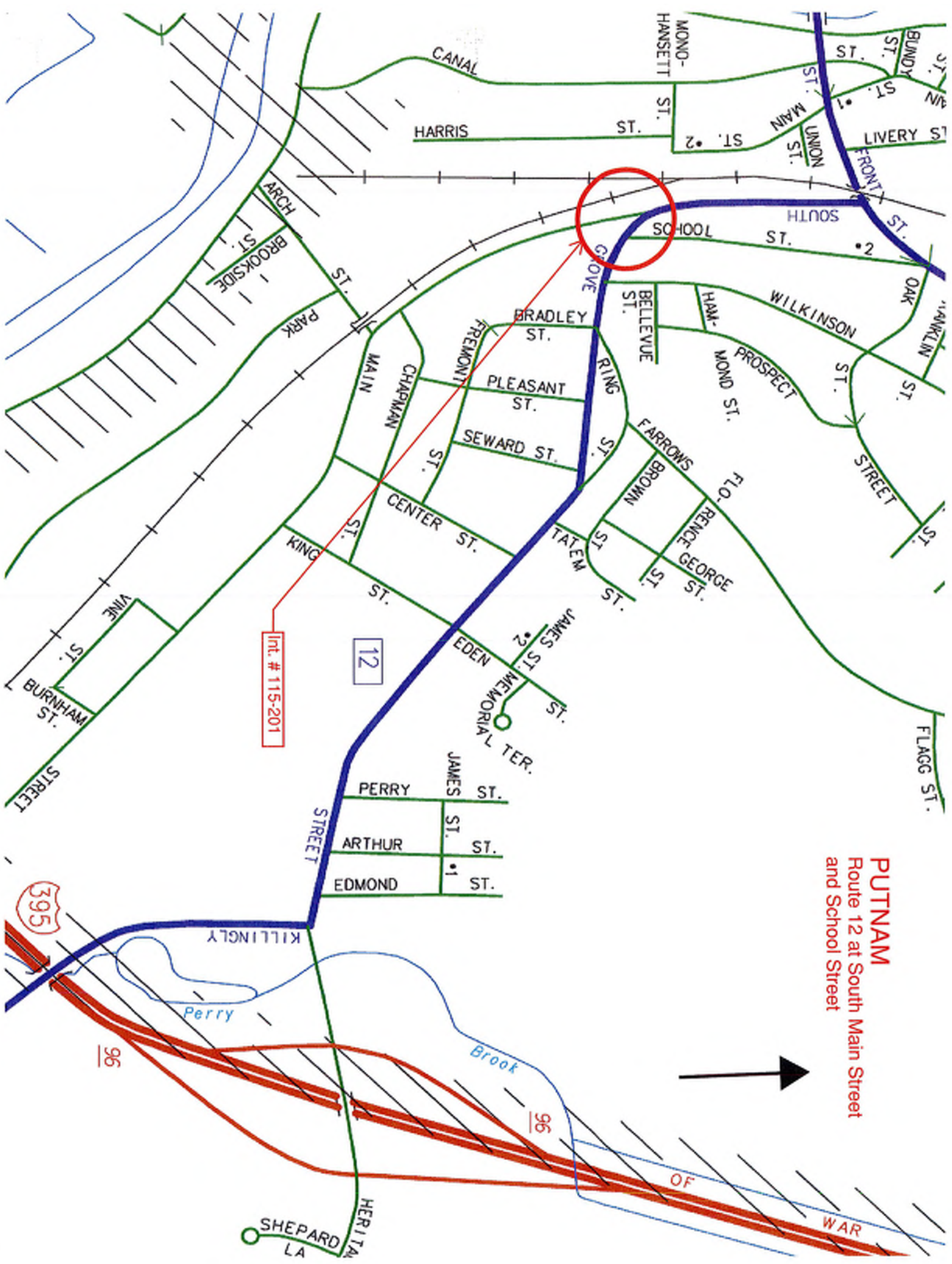
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Int. # 082-249

MIDDLETOWN

Silver Street at Harvey Drive
Silver Street at Holmes Drive





PUTNAM
Route 12 at South Main Street
and School Street

Int. # 115-201

12

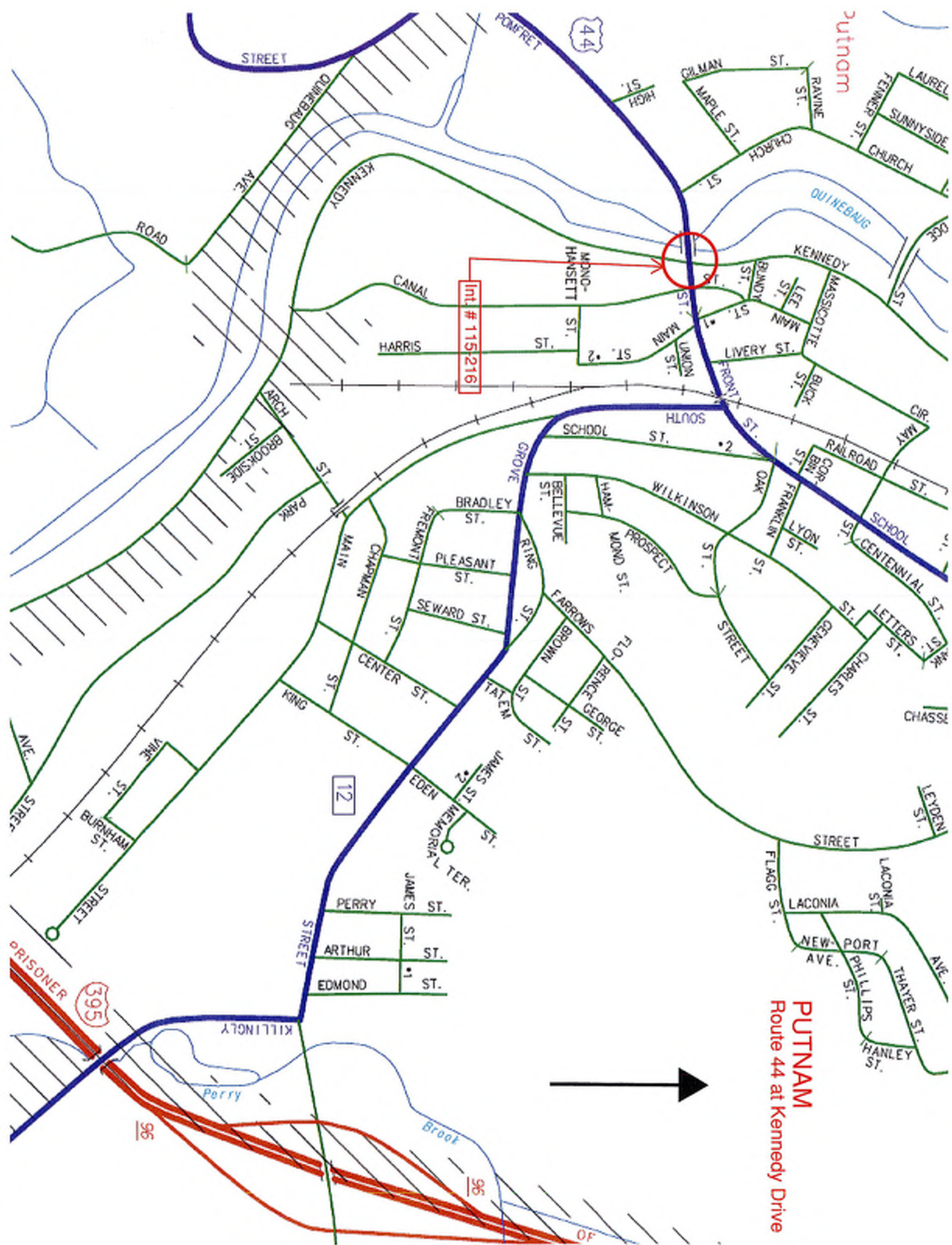
395

96

96

OF

WAR



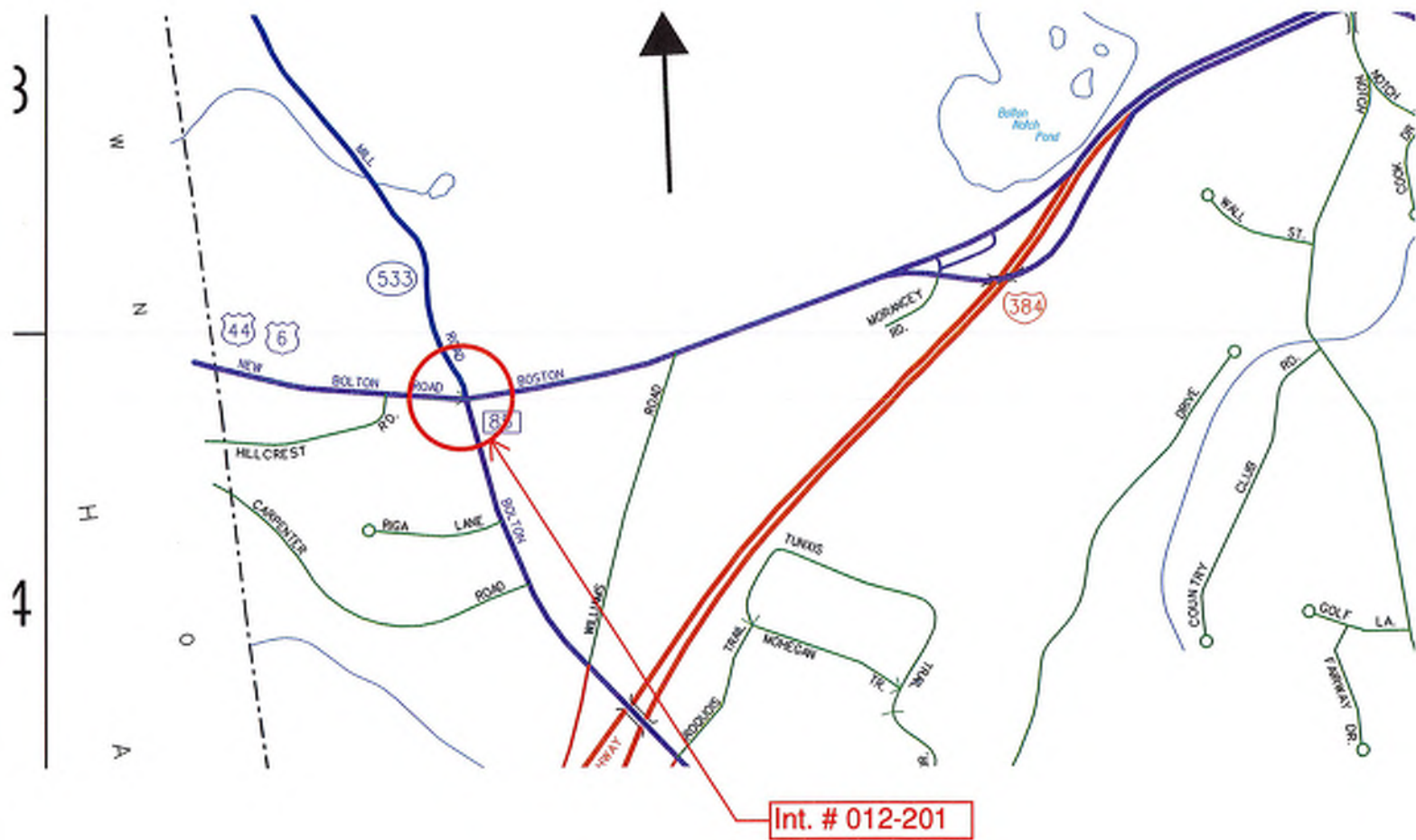
Putnam

Int # 115216

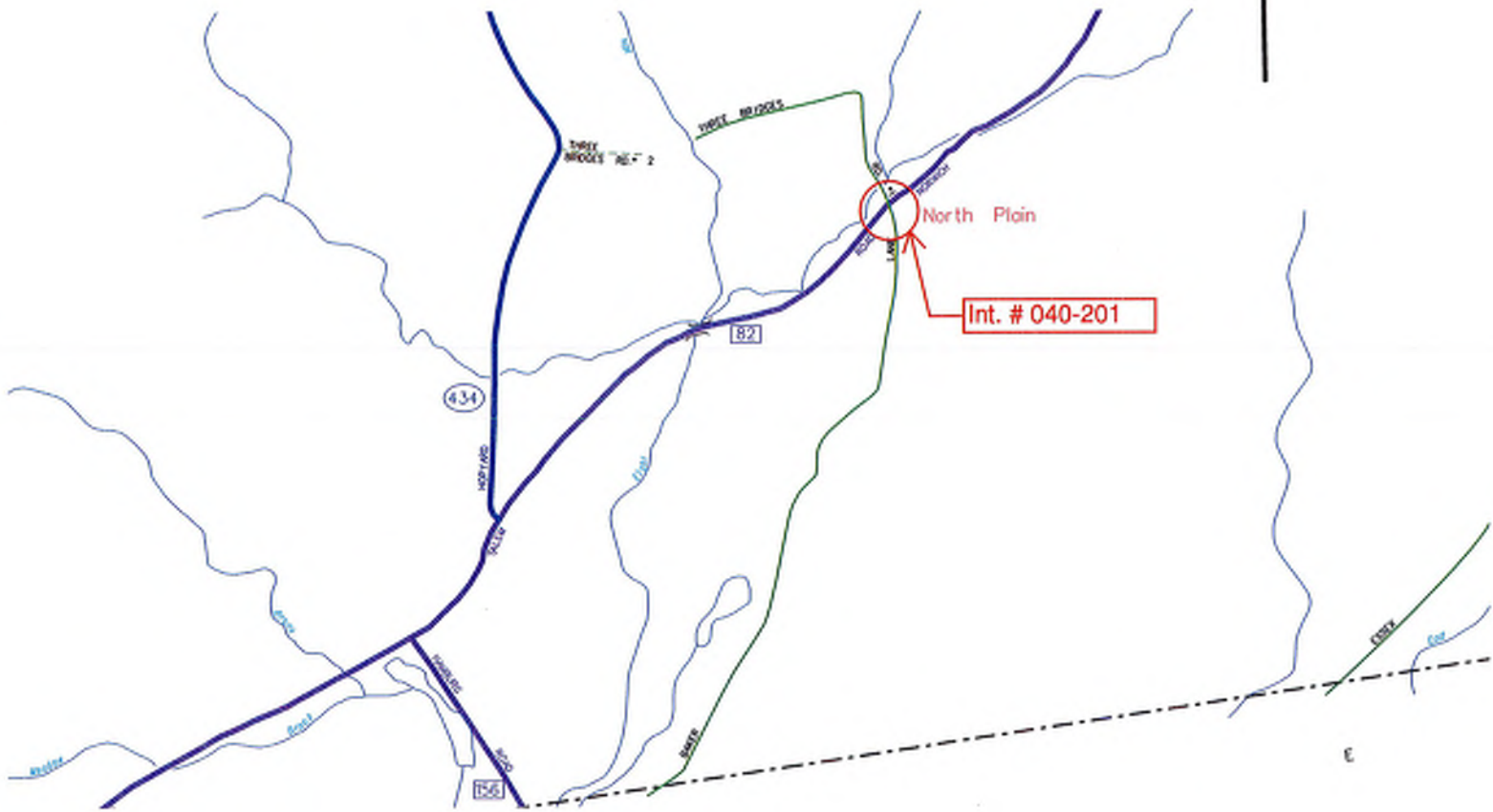
PUTNAM
Route 44 at Kennedy Drive



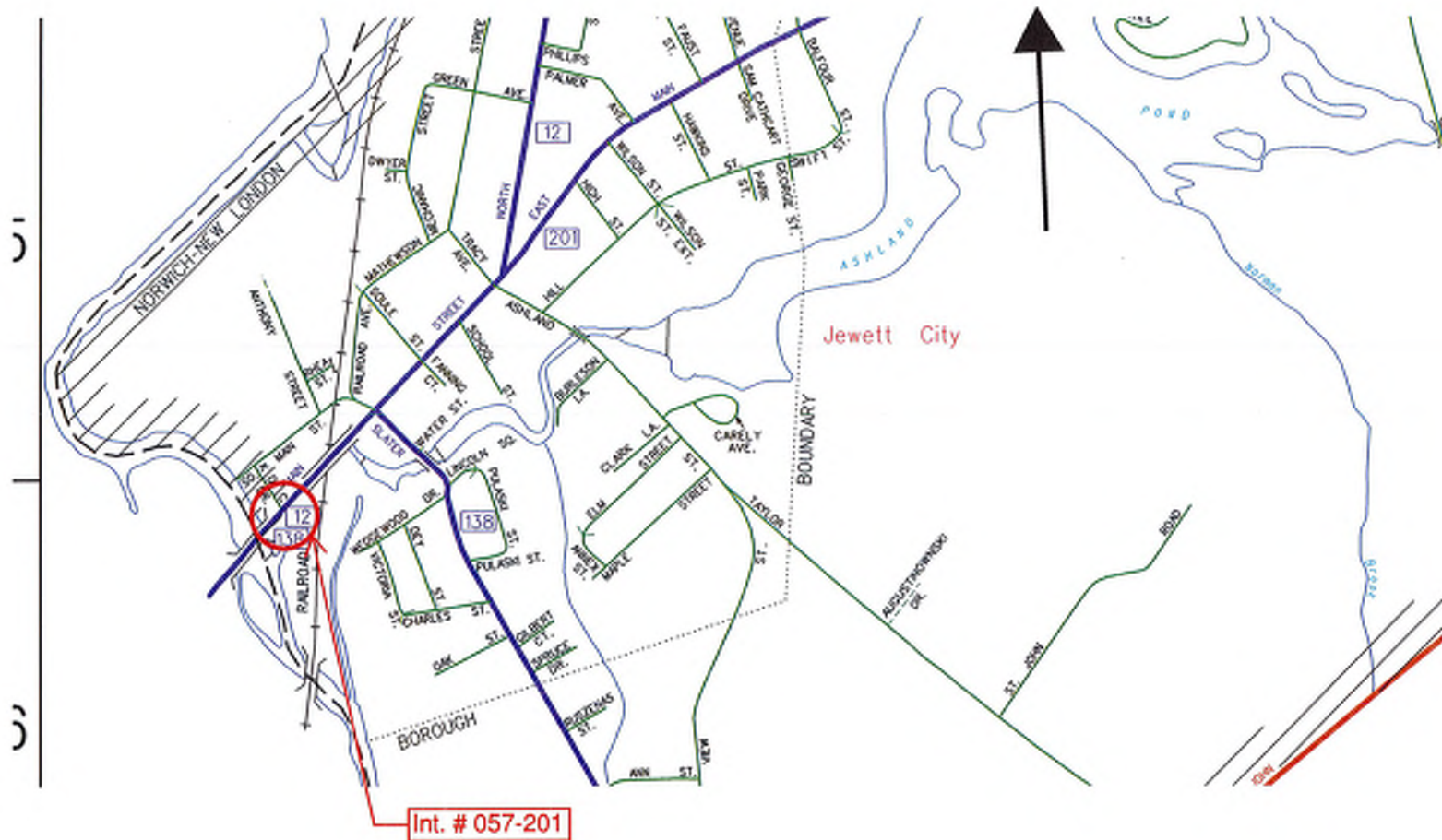
BOLTON
Route 6/44 at Route 85



EAST HADDAM
Route 82 at Baker Lane

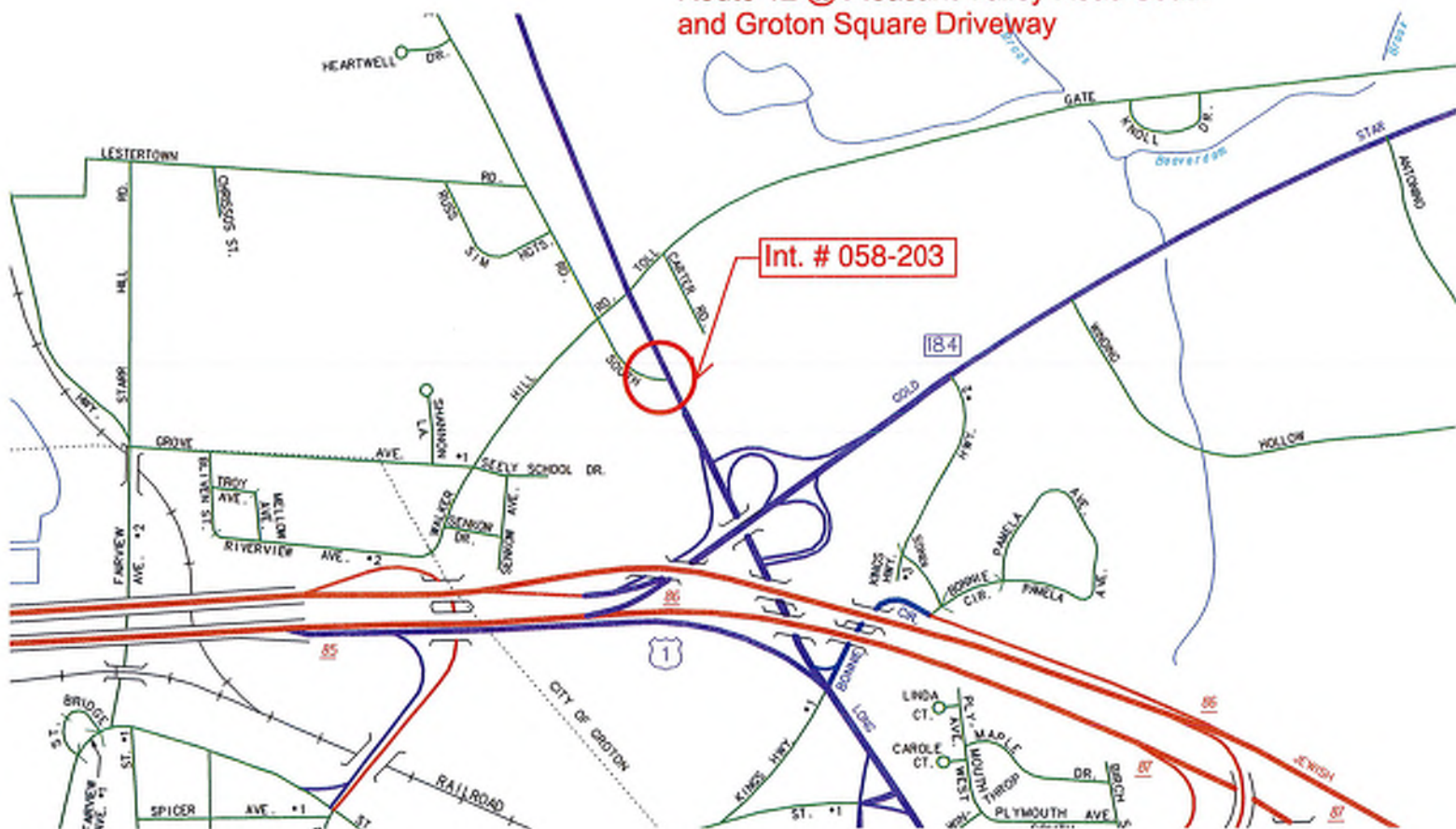


GRISWOLD
Route 12 at South Main St #2
(K of C Drive)

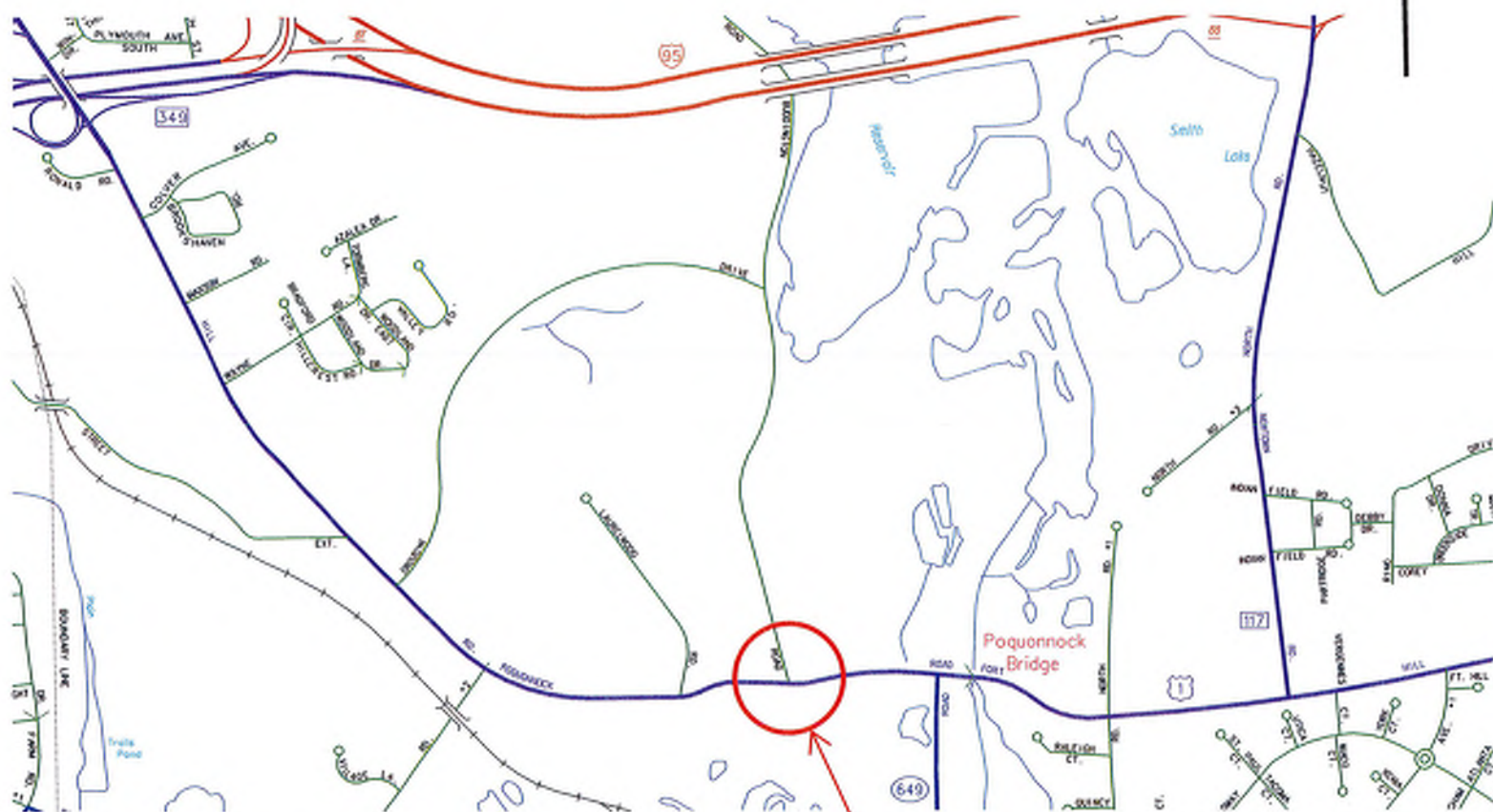


GROTON

Route 12 @ Pleasant Valley Road South
and Groton Square Driveway



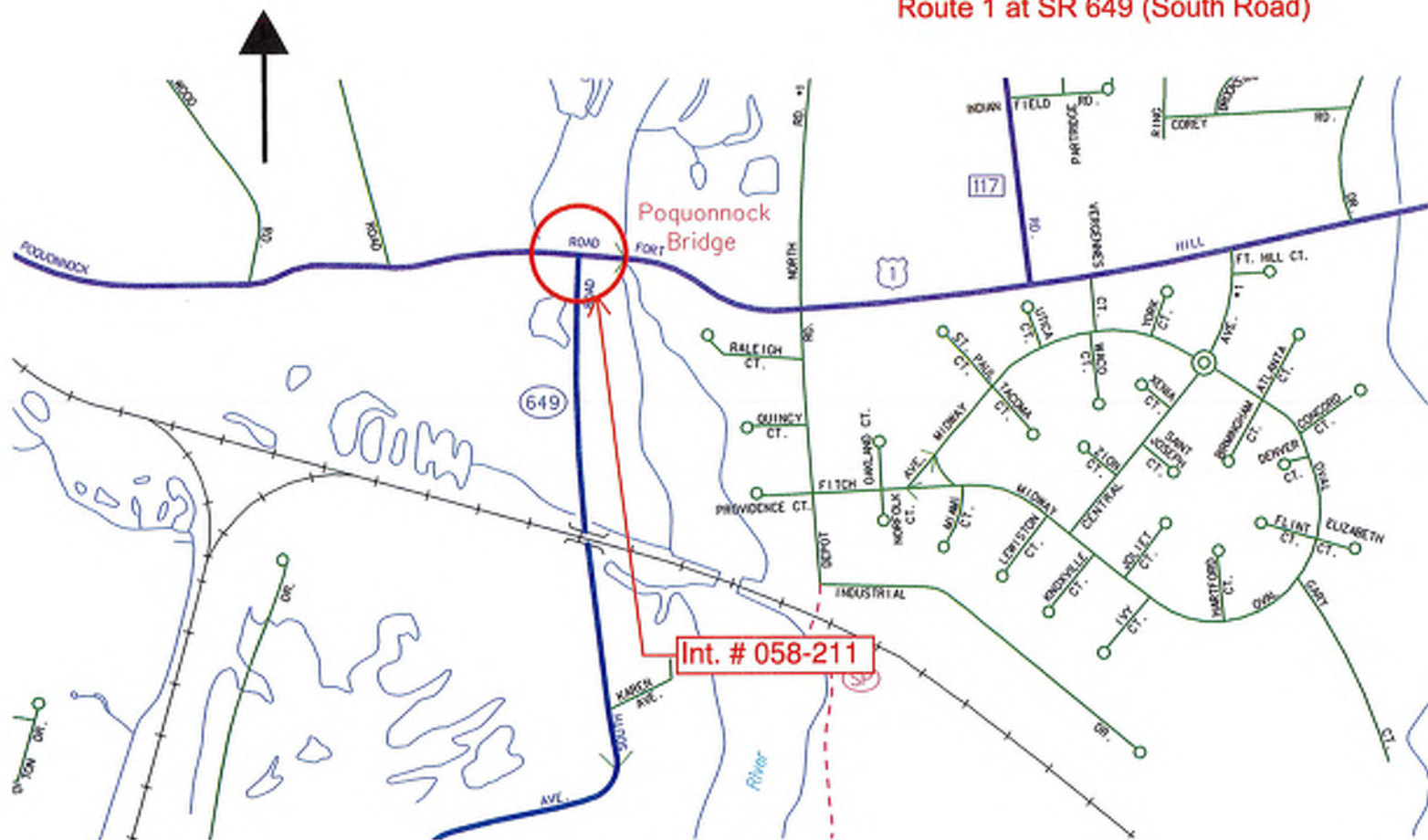
GROTON
Route 1 at Buddington Road



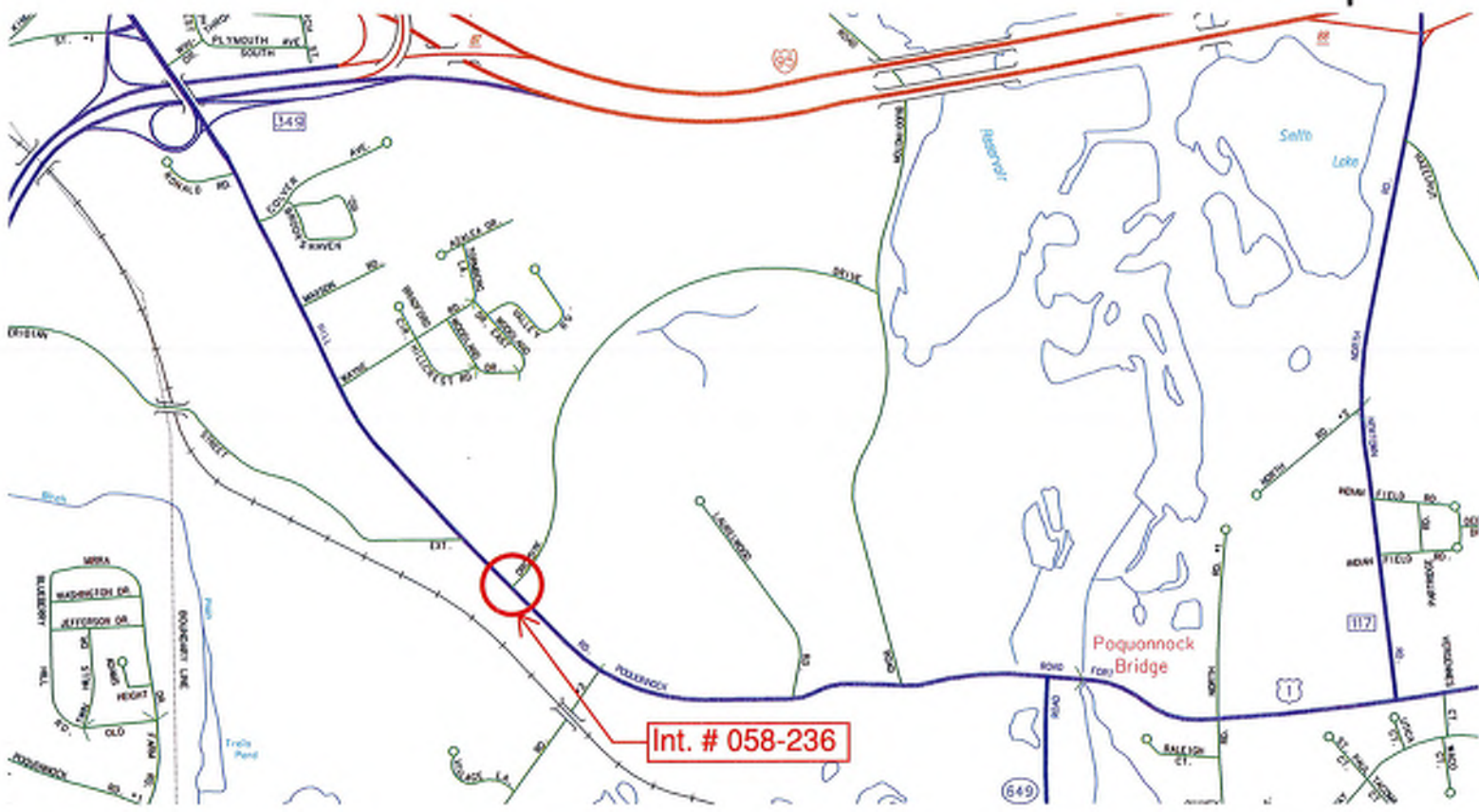
Int. # 058-210

GROTON

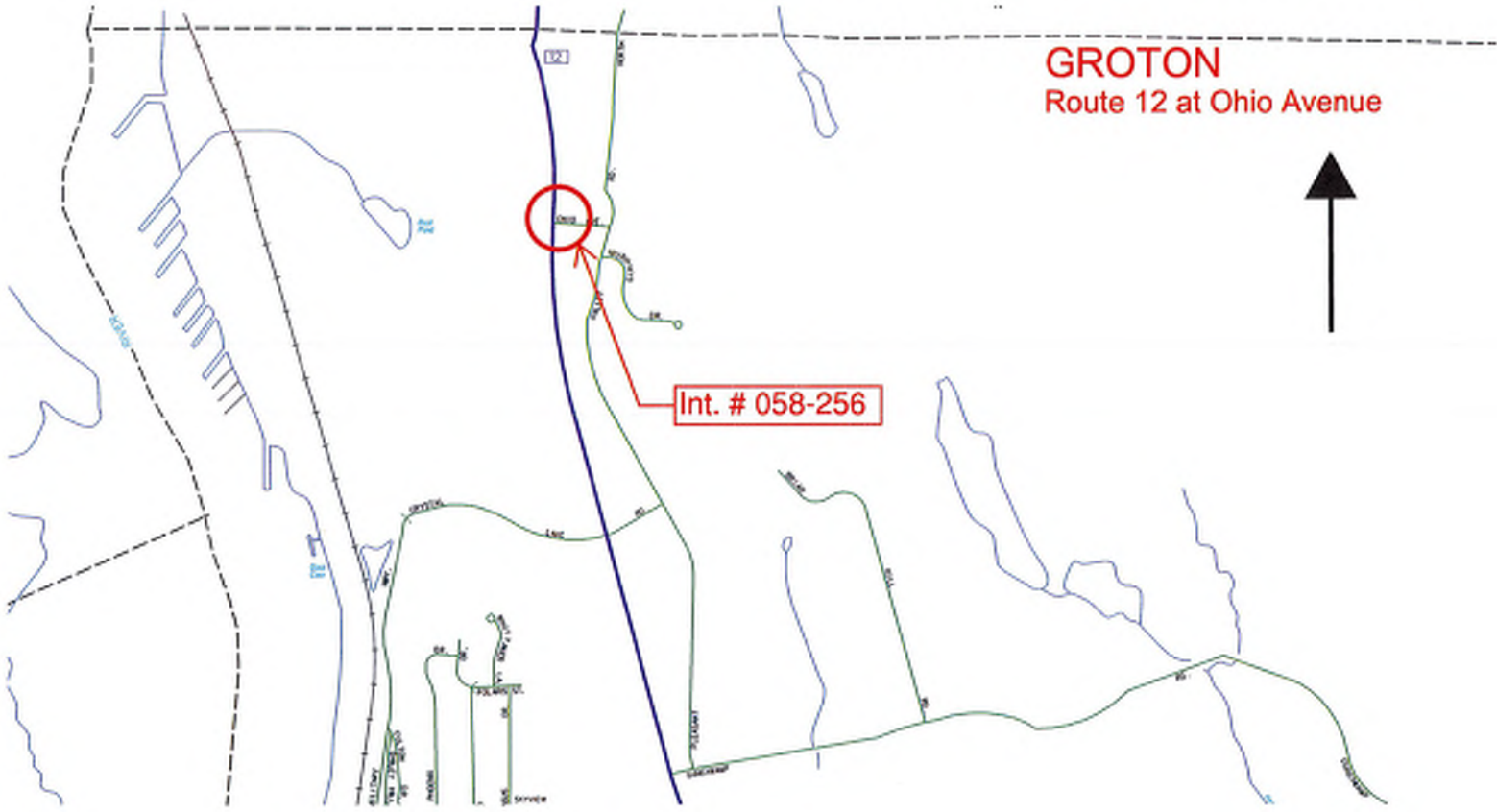
Route 1 at SR 649 (South Road)



GROTON
Route 1 @ Drozdyk Drive



Int. # 058-236



GROTON
Route 12 at Ohio Avenue

Int. # 058-256

PLAINFIELD
Route 12 at Route 14A
and Cemetery Road

