South Central Regional Council of Governments

Traffic Signal Inventory Project

Town of Wallingford, CT

Prepared by:



1010 Wethersfield Avenue Suite 305 Hartford, CT 06114

June 2012

TRAFFIC SIGNAL INVENTORY: WALLINGFORD, CT

PROJECT REPORT

FINAL REPORT

Prepared by: BETA Group, Inc.

Prepared for: South Central Regional Council of Governments

June 2012

EXECUTIVE SUMMARY

BETA Group, Inc. was retained by the South Central Regional Council of Governments (SCRCOG), on behalf of the Town of Wallingford, CT, to conduct an inventory of traffic signal equipment and intersection geometry at 31 town-owned locations. The purpose of this project was to gather data relating to the type and condition of the existing traffic signal equipment and geometry at the project locations. These data were then used by a team or senior traffic signal engineers to develop a qualitative assessment of existing operations, and potential improvement strategies which may require further study.

Qualitative Assessment

The following Qualitative Assessment categories were used to classify each project location:

- Compliant Intersections are those that have no major violations of the requirements of the Manual on Uniform Traffic Control Devices (MUTCD). Equipment at these intersections is typically operating properly and providing good traffic operations.
- Maintenance Needed Intersections are those intersections that require routine maintenance. Minor equipment issues and operational changes fall into this category.
- Capital Improvement Intersections are those intersections which require replacement or upgrading of hardware that shows significant deterioration or operational issues. These intersections typically have deteriorated structural supports or vehicle damage.
- 4. **Replacement Intersections** are those intersections where the signal equipment is at the end of its useful life based on age or ability to be maintained. In most cases intersections which have not been upgraded in approximately 20 to 25 years will fall into this category. Intersections that have major compliance issues with the MUTCD requirements will also fall into this category.
- 5. Red Flag Intersections are those intersections that were found to have issues that present serious safety issues. In such cases, the situation would be immediately reported to the Town with recommendations for actions to provide interim solutions. It should be noted that none of the project intersections were assigned to this category.

The results of the Qualitative Assessment are summarized as follows:

Qualitative Assessment	Number of Intersections
1 - Compliant Intersections	2
2 - Maintenance Needed Intersections	8
3 - Capital Improvement Intersections	12
4 - Replacement Intersections	9
5 - Red Flag Intersections	0
TOTAL	31

Recommended Intersection Improvements

This report has identified improvements which can be realized in the traffic signals which are owned by the City of Wallingford. The recommended improvement program is divided into two major categories:

- 1. System Level Improvements These are projects which apply to the overall performance of the system. These include actions to improve traffic signal operations as a whole. Projects which address multiple locations, operational plans and similar actions.
- 2. Intersection Level Improvements These items are recommended to bring a specific location to its original design, repair malfunctioning equipment or upgrade an intersection to current standards.

The following table summarizes the estimated costs associated with the System Level Improvements:

Project		Estimated Cost
Vehicle Detector Repair		\$30,000
System Coordination Repair		\$35,000
System Timing Update		\$50,000
	TOTAL	\$115,000

The following tables summarize the estimated costs associated with the Intersection Level Improvements:

Intersection Cost Estimate Summary

Qualitative Assessment		Total
2	Maintenance Needed Intersections	\$402,000
3	Capital Improvement Intersections	\$1,718,000
4	Replacement Intersections	\$1,648,000
	TOTAL	\$3,768,000

Intersection Cost Estimate Summary - Maintenance Needed Intersections

		Estimated Cost				
Inters	ection	Equipment	Software	Geometric	Total	Priority
59T	Quinnipiac Street at Washington Street	\$47,000	\$0	\$30,000	\$77,000	1
60T	Quinnipiac Street at North and South Cherry Street	\$46,000	\$0	\$16,000	\$69,000	2
4T	South Colony Road (US Route 5) at Walgreens Shopping Center Driveway	\$32,000	\$5,000	\$0	\$37,000	3
30T	Hall Avenue (Route 150) at Washington Street	\$51,000	\$0	\$0	\$51,000	4
54T	South Turnpike Road at Cook Hill Road	\$27,000	\$5,000	\$1,000	\$33,000	5
55T	South Turnpike Road at Cheshire Road	\$30,000	\$0	\$0	\$30,000	6
56T	South Turnpike Road/Quinnipiac Street at Masonic Avenue/Route 15 Southbound Ramps	\$87,000	\$0	\$0	\$87,000	7
69T	Research Parkway at Bristol-Myers Squibb Main Driveway	\$13,000	\$5,000	\$0	\$18,000	8
				TOTAL	\$402,000	

Intersection Cost Estimate Summary - Capital Improvement Intersections

		Estimated Cost				
Interse	ection	Equipment	Software	Geometric	Total	Priority
28T	Center Street (Route 150) at North and South Orchard Streets	\$151,000	\$0	\$0	\$151,000	1
5T	South Colony Road (US Route 5) at Ward Street	\$184,000	\$5,000	\$14,000	\$203,000	2
6T	North and South Colony Road (US Route 5) at Hall Avenue, Center Street, Quinnipiac Street	\$197,000	\$0	\$19,000	\$216,000	3
29T	Hall Avenue (Route 150) at North Cherry Street	\$163,000	\$0	\$0	\$163,000	4
57T	Quinnipiac Street at River Road/Route 15 Northbound Off-Ramp	\$142,000	\$0	\$0	\$142,000	5
58T	Quinnipiac Street at Ward Street	\$207,000	\$0	\$4,000	\$211,000	6
65T	North Main Street Extension at Barnes Industrial Road/Wal-Mart Driveway	\$176,000	\$0	\$0	\$176,000	7
66T	North Main Street Extension at Ives Road	\$148,000	\$0	\$0	\$148,000	8
68T	Barnes Industrial Road North at Barnes Road	\$103,000	\$0	\$0	\$103,000	9
73T	John Street at South Cherry Street	\$115,000	\$0	\$0	\$115,000	10
74T	Hope Hill Road at Yalesville Fire Department	\$77,000	\$0	\$0	\$77,000	11
75T	North Colony Street (US Route 5) at Holy Trinity Church	\$2,000	\$0	\$11,000	\$13,000	12
				TOTAL	\$1,718,000	

Intersection Cost Estimate Summary - Replacement Intersections

Intersection		Estimated Cost				
		Equipment	Software	Geometric	Total	Priority
27T	Center Street (Route 150) at North and South Main Streets	\$192,000	\$0	\$46,000	\$238,000	1
26T	Center Street (Route 150) at North and South Elm Streets	\$161,000	\$0	\$43,000	\$204,000	2
25T	Center Street (Route 150) at Silver Pond Apartments Driveway	\$132,000	\$0	\$18,000	\$150,000	3
67T	North Main Street Extension at Stop & Shop Shopping Center Driveway	\$163,000	\$0	\$16,000	\$179,000	4
61T	Ward Street at South Cherry Street	\$166,000	\$0	\$38,000	\$204,000	5
64T	North Main Street Extension at Beaumont Road	\$163,000	\$0	\$13,000	\$176,000	6
63T	North Plains Industrial Road at Pent Highway	\$135,000	\$0	\$16,000	\$151,000	7
62T	Ward Street at South Orchard Street	\$166,000	\$0	\$16,000	\$182,000	8
32T	Hall Avenue (Route 150) at Masonic Avenue/Fire Dept. Headquarters	\$149,000	\$0	\$15,000	\$164,000	9
				TOTAL	\$1,648,000	

Prioritization of Improvements

This report also prioritized the system and intersection improvements recommended. The following list of priorities is based primarily on the condition of the existing equipment as determined by the field inventory and a review of traffic signal maintenance logs.

Priority Area 1: Repair vehicle detection, traffic signal coordination, and traffic signal timing system wide. Simple timing changes and coordination of operations at adjacent intersections could significantly improve traffic operations within the Town. Repair of broken vehicle detectors will also reduce the amount of unused time given to non-coordinated signal phases. These are relatively low cost improvements that could be implemented in a short period of time and could have a significant effect on traffic signal operations town wide.

Priority Area 2: Implement recommended improvements along Center Street which include the following intersections:

- 25T Center Street (Route 150) at Silver Pond Apartments Driveway
- 26T Center Street (Route 150) at North and South Elm Streets
- 27T Center Street (Route 150) at North and South Main Streets
- 28T Center Street (Route 150) at North and South Orchard Streets

These intersections are among the oldest in the Town system. Most of the equipment is outdated and reaching the end of its useful life. A review of maintenance records shows that these intersections require the most on-going maintenance.

Priority Area 3: Implement recommended improvements at project intersections along Hall Avenue, Quinnipiac Street, and South Colony Road which include the following intersections:

- 5T South Colony Road (US Route 5) at Ward Street
- 6T North and South Colony Road (US Route 5) at Hall Avenue, Center Street,
 Quinnipiac Street
- 29T Hall Avenue (Route 150) at North Cherry Street
- 57T Quinnipiac Street at River Road/Route 15 Northbound Off-Ramp
- 58T Quinnipiac Street at Ward Street
- 59T Quinnipiac Street at Washington Street
- 60T Quinnipiac Street at North and South Cherry Street
- 61T Ward Street at South Cherry Street

Priority Area 4: Implement recommended improvements at all intersections categorized as "Maintenance needed" which include the following intersections:

- 4T South Colony Road (US Route 5) at Walgreens Shopping Center Driveway
- 30T Hall Avenue (Route 150) at Washington Street
- 54T South Turnpike Road at Cook Hill Road
- 55T South Turnpike Road at Cheshire Road

- 56T South Turnpike Road/Quinnipiac Street at Masonic Avenue/Route 15
 Southbound Ramps
- 59T Quinnipiac Street at Washington Street
- 60T Quinnipiac Street at North and South Cherry Street
- 69T Research Parkway at Bristol-Myers Squibb Main Driveway

Most intersections in this category require improvements that are in the low to middle price range. These intersections could most likely be repaired using existing town maintenance contracts in a short time frame. These improvements were given a lower priority because they are typically not critical to the safe operation of the traffic signal.

Priority Area 5: Implement recommended improvements along North Main Street Extension which includes the following intersections:

- 64T North Main Street Extension at Beaumont Road
- 65T North Main Street Extension at Barnes Industrial Road/Wal-Mart Driveway
- 66T North Main Street Extension at Ives Road
- 67T North Main Street Extension at Stop & Shop Shopping Center Driveway

These closely spaced intersections located in a heavy Industrial and commercial area could benefit from improved timing and traffic signal coordination. The traffic signal located at the driveway from the Stop & Shop Plaza appears to be the oldest in the Town system.

Priority Area 6: Implement recommended improvements at the remaining project intersections which include:

- 32T Hall Avenue (Route 150) at Masonic Avenue/Fire Dept. Headquarters
- 62T Ward Street at South Orchard Street
- 63T North Plains Industrial Road at Pent Highway
- 68T Barnes Industrial Road North at Barnes Road
- 73T John Street at South Cherry Street
- 74T Hope Hill Road at Yalesville Fire Department
- 75T North Colony Street (US Route 5) at Holy Trinity Church

BETA Group, Inc. vii

TABLE OF CONTENTS

Exec	utive Summary	
1.0	Introduction	1
1	.1 Project Purpose	1
1	.2 Study Methodology	1
2.0	Traffic Signal Inventory and Qualitative Assessment	3
2	.1 Intersection Inventory, Deficiencies, and Qualitative Assessments	4
3.0	Qualitative Assessment Results	78
4.0	Recommendations	82
4	.1 System Level Improvements	82
4	.2 System Level Improvements Cost Estimate Summary	84
4	.3 Intersection Level Improvements	84
4	.4 Intersection Level Cost Estimate Summary	93
4	.5 Recommended Prioritization	97
Арре	endix A - Intersection Plans	
Арре	endix B - Field Inspection Sheets	
Арре	endix C - Intersection Photo Logs	
Арре	endix D - Project Cost Estimates	
LIST OF	FIGURES	
	Figure 1 - Study Intersections	2
	Figure 2 - Intersection Status	80
	Figure 3 - Coordination Zones	83
LIST OF	TABLES	
	Table 1 - Qualitative Assessment Summary by Intersection	78
	Table 2 - Qualitative Assessment Summary by Category	81
	Table 3 - System Level Improvements Cost Estimate Summary	84

Traffic Signal Inventory

Wallingford, CT

Table 4 - Intersection Cost Estimate Summary	93
Table 5 - Intersection Cost Estimate Summary - Maintenance Needed Intersections	. 94
Table 6 - Intersection Cost Estimate Summary - Capital Improvement Intersections	95
Table 7 - Intersection Cost Estimate Summary - Replacement Intersections	96

1.0 INTRODUCTION

BETA Group, Inc. was retained by the South Central Regional Council of Governments (SCRCOG), on behalf of the Town of Wallingford, CT, to conduct an inventory of traffic signal equipment and intersection geometry at 31 town owned locations. This project was funded through the Federal Highway Administration (FHWA), the Connecticut Department of Transportation (CDOT) and SCRCOG per a SCRCOG-CDOT Fiscal Year 2012-2012 planning agreement as described in SCRCOG's *Fiscal Year 2012 Unified Planning Work Program* ("UPWP").

1.1 Project Purpose

The purpose of this project was to gather data relating to the type and condition of the existing traffic signal equipment and geometry at the 31 project locations. These data were then used to develop a qualitative assessment of existing operations, and potential improvement strategies which may require further study. The study intersections are presented in Figure 1.

1.2 Study Methodology

This study was performed in three parts. Part one involved the collection of record signal plans and a field visit to each of the 31 project locations to perform an inventory of existing traffic signal equipment and intersection geometry. Upon completion of the field inventory, the project intersections were reviewed by senior traffic signal engineers to assess the needed modifications and improvements. In the last part, the qualitative assessments were drafted into improvement recommendations for each of the study intersection.

A Microsoft Access Database was created and populated with existing traffic signal data. This database will serves as the basis for the Town to monitor the condition of signal equipment as traffic patterns change due to: future development, background growth, and the influence of future transportation improvements.

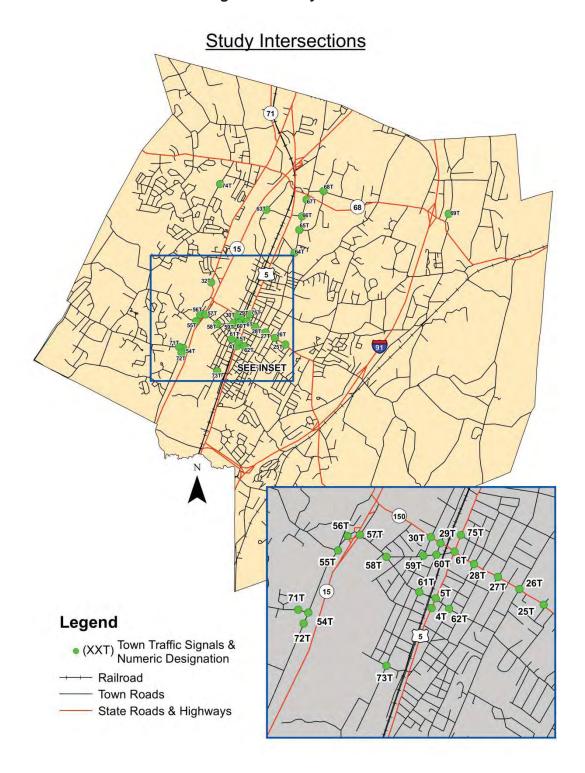


Figure 1 - Study Intersections

2.0 TRAFFIC SIGNAL INVENTORY AND QUALITATIVE ASSESSMENT

The following section provides the results of the traffic signal and intersection geometry inventories. During the field visit the following items were inventoried:

- Traffic signal controller, cabinet, and ancillary equipment;
- Traffic signal phasing and timing settings;
- Size, type, location, and condition of vehicular and pedestrian signal heads;
- Location of pedestals, mast arms and span wires;
- Pedestrian push-buttons;
- Accessible Pedestrian Signals (APS);
- Regulatory signing;
- Vehicle detector type, location and function;
- Emergency vehicle pre-emption equipment;
- Traffic signal interconnection

The record plans were also reviewed during the field visit for changes which might have occurred since the plan was developed. A photo log of the intersection was also obtained.

Each of the 31 project intersections were evaluated by a team of senior traffic engineers following the field inventory. Each intersection was classified into one of the following categories during the qualitative assessment:

- Compliant Intersections are those that have no major violations of the requirements of the Manual on Uniform Traffic Control Devices (MUTCD). Equipment at these intersections is typically operating properly and providing good traffic operations.
- Maintenance Needed Intersections are those intersections that require routine maintenance. Minor equipment issues and operational changes fall into this category.
- Capital Improvement Intersections are those intersections which require replacement or upgrading of hardware that shows significant deterioration or operational issues. These intersections typically have deteriorated structural supports or vehicle damage.
- 4. **Replacement Intersections** are those intersections where the signal equipment is at the end of its useful life based on age or ability to be maintained. In most cases intersections which have not been upgraded in approximately 20 to 25 years will fall into this category. Intersections that have major compliance issues with the MUTCD requirements will also fall into this category.
- 5. **Red Flag Intersections** are those intersections that were found to have issues that present serious safety issues. In such cases, the situation would be

immediately reported to the Town with recommendations for actions to provide interim solutions. It should be noted that none of the project intersections were assigned to this category.

2.1 Intersection Inventory, Deficiencies, and Qualitative Assessments

The following section presents the results of the field inventory, deficiencies identified, and the Qualitative Assessment Category assigned to each project intersection.

2.1.1 Intersection 4T - South Colony Road (US Route 5) at Walgreens Shopping Center Driveway

This three-legged, T-type intersection is controlled by a three phase, semi-actuated traffic signal. A leading, protected left-turn signal phase is provided on the South Colony Road southbound approach and left-turns are permitted during the following through phase. Pedestrians are permitted to cross South Colony Road concurrently with the Walgreens Driveway traffic. The driveway approaches the intersection from the east and the traffic signal phase is actuated by wire loop detectors. A pre-emption detector is provided and a pre-emption routine is programmed for the South Colony Road southbound approach. Vehicle signal heads are supported by a single span wire assembly. Wire loop detectors and shelf mounted amplifiers are used for vehicle detection.



The provided plan is marked as revision number 2 and is dated 2008. The South Colony Road southbound approach is a multi-lane approach. A concrete sidewalk and sidewalk ramps are provided on the east side of South Colony Rd. The following deficiencies were identified during the inventory:

Wire nuts are used for splices in one or more hand holes.



The doghouse signal head is damaged.



- Controller timing parameters do not match the values on the record plan. All values are within the Min/Max ranges shown on the plan.
- The southbound left-turn phase is programmed with Max recall.
- Traffic signal coordination and time-of-day settings have not been programmed. The signal operates in the Free Mode at all times.
- Eight-inch, three-section vehicular signal indications are currently used to indicate the concurrent pedestrian phase.
- Eight-inch signal indications are provided on the Walgreens Driveway approach. All other indications are 12-inch diameter.
- One of the two signal heads provided on the northbound and southbound approaches is located too close to the stop line and does not conform to the requirements of the MUTCD.
- Loop Detector D1 is not programmed in the traffic signal controller to extend Phase 1 as shown on the plan.
- The emergency vehicle pre-emption function does not appear to be functioning on the South Colony Road southbound approach.
- Emergency vehicle pre-emption is not provided on the South Colony Road northbound approach.
- Backplates are not provided on span wire mounted signal heads.
- The cabinet light bulb is burned out.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Qualitative Assessment

Overall, traffic signal equipment and intersection geometry are in good condition. Updates were last performed at this intersection in 2008. The issues that are present are minor in nature and could be resolved by maintenance activities. The Qualitative Assessment category assigned to this intersection is:

2 - Maintenance Needed

2.1.2 Intersection 5T - South Colony Road (US Route 5) at Ward Street

This four-legged intersection is controlled by a four-phase, semi-actuated traffic signal. Ward Street eastbound and westbound traffic are served by a single phase and eastbound traffic, which crosses the rail road tracks, is provided with a lagging clear-out phase. South Colony Street traffic is served by a single phase, and pedestrians cross during an exclusive pedestrian phase. Vehicle signal heads are supported by a single span wire assembly. Wire loop detectors and shelf mounted amplifiers are used for vehicle detection.

This intersection is located 130 feet east of the Amtrak regional railroad line. Traffic signal operations are pre-empted during train crossings. Internally illuminated "No Left Turn" and "No Right Turn" signs are provided on the South Colony Road



northbound and southbound approaches, respectively. These signs are activated during train pre-emption and prohibit turns onto Ward Street westbound.

The provided plan is dated 1995. This intersection is located in a commercial zone. The South Colony Road northbound approach consists of an exclusive left-turn lane and a shared through/right-turn lane. All other approaches consist of a single travel lane. Concrete sidewalks and sidewalk ramps are provided on all four corners of the intersection. The following deficiencies were identified during the inventory:

Wire nuts are used for splice connections in one or more hand holes.

Hand hole covers are not bonded.



Pavement markings and some sidewalk ramps are in poor condition.



Large vehicles have difficulty turning at one or more corners.



Pedestrian push-buttons, signs and pedestrian signal heads are different types.







- The on-street master traffic signal controller is located at this intersection; however, it is disconnected from the communication system and is not powered.
- This intersection operates in the Free Mode at all times.
- No coordination settings are programmed.
- Train pre-emption is working properly, but it does not appear that emergency vehicle pre-emption is functioning.

- One of the two signal heads provided on the northbound, southbound and eastbound approaches is located too close to the stop line and does not conform to the requirements of the MUTCD.
- Most existing signal indications are eight-inch diameter indications.
- Existing pedestrian signal heads present word legends for Walk and Don't Walk.
- Pedestrian clearance interval timing should be verified for conformance with the latest revision of the MUTCD.
- An audible pedestrian tone is not provided during the exclusive pedestrian phase.
- Backplates are not provided on span wire mounted signal heads.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

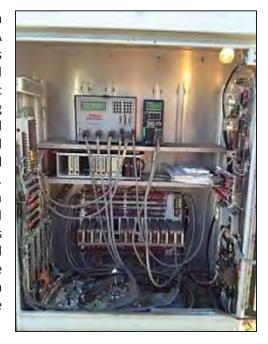
Qualitative Assessment

Overall, intersection geometry is in good condition, but the traffic signal equipment is in poor condition. This intersection was constructed in 1995 and the equipment is now 17 years old. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

3 - Capital Improvement Intersection

2.1.3 Intersection 6T - North and South Colony Road (US Route 5) at Hall Avenue, Center Street, Quinnipiac Street

This five-legged intersection is controlled by a six-phase, semi-actuated traffic signal. leading protected left-turn signal phase is provided on the South Colony Road northbound approach and the Quinnipiac Street eastbound approach. A lagging protected left-turn signal phase is provided on the North Colony Road southbound approach. Left-turns are permitted from all roadways during the through traffic phases. Pedestrian are permitted to cross during an exclusive pedestrian phase. All traffic signal phases are actuated with wire loop detectors and rack mounted amplifiers. Vehicle signal heads are supported by two span wire assembly utilizing three span poles. audible tone is provided during the exclusive



pedestrian phase.

This intersection is located 300 feet east of the Amtrak regional railroad line. Traffic signal operations are pre-empted during train crossings. A "No Left Turn" sign and a "No Right Turn" sign are provided on South Colony Road northbound and southbound approaches, respectively. These signs are illuminated during a train pre-emption to prohibit turns onto Quinnipiac Street and Hall Avenue. Three emergency vehicle pre-emption routines are programmed.

The provided plan is marked as revision number two and is dated July 1997. Decorative lighting, trash receptacles, landscaping, brick paver treatments and a bus stop are provided at this location. Concrete sidewalks and sidewalk ramps are present on each corner. An exclusive left-turn lane and a shared through/right-turn lane are provided on North and South Colony Road and on Quinnipiac Street. A shared through/left-turn lane and a shared through/right-turn lane are provided on the Center Street (Route 150) approach. Hall Avenue consists of two westbound departure lanes. The following deficiencies were identified during the inventory:

Railroad crossing pavement markings are in poor condition.



A concrete hand hole is damaged at the intersection of Hall Avenue and Quinnipiac Street.



Existing sidewalk ramps lack detectable warning strips and do not meet current ADA requirements.

A section of brick pavers behind the sidewalk ramp has settled causing a hazard to pedestrians.



Wire nuts are used for splice connections in several hand holes.

Some hand hole covers are not grounded, lack duct seal and/or are not set flush to grade.



- Grout at the base of the span pole located on the northeast Corner of Hall Avenue and North Colony Road is deteriorated.
- Traffic signal coordination settings are programed, but the controller is
 operating in Free Mode at all times. According to the controller's program
 change log, the signal is operating in the Free Mode at all times on a command
 from the master system controller.
- Emergency vehicle pre-emption for the Quinnipiac Street approach appears to be the only functioning pre-emption phase. The pre-emption phase selector rack card for the remaining two pre-emption routines is not connected to the card rack and is inactive.
- One of the two signal heads provided on the northbound approach is located too close to the stop line and does not conform to the requirements of the MUTCD.
- There is evidence in the controller cabinet of mice infestation. It appears that
 the debris is old and the mice have been removed from the cabinet, and all
 entrances were sealed.
- Backplates are not provided on span wire mounted signal heads.

- Dust and debris should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Qualitative Assessment

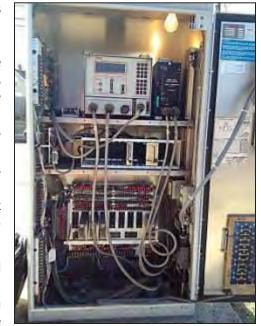
Overall, intersection geometry is in good condition, but the traffic signal equipment is in poor condition. This intersection was constructed in 1997 and the equipment is now 15 years old. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

3 - Capital Improvement Intersection

2.1.4 Intersection 25T - Center Street (Route 150) at Silver Pond Apartments Driveway

This three-legged, T-type intersection is controlled by a three-phase, semi-actuated traffic signal. Center Street northbound and southbound movements are served in phase one; an exclusive pedestrian phase is provided in phase two; and the driveway from the Silver Pond Apartments is served in phase three. Vehicle signal heads are supported by a Y-type span wire assembly, utilizing three span poles. An audible tone is provided during the exclusive pedestrian Wire loop detectors and rack phase. mounted amplifiers are used for vehicle detection.

The provided plan is dated April-1997. All approach roadways consist of single lanes. Concrete sidewalks are provided along each side of Center Street (Route 150). The



following deficiencies were identified during the inventory:

A concrete hand hole is damaged on the north side of Center Street (Route 150).



Pavement markings are in poor condition.

Pedestrian ramps are not provided at crosswalks.



Pavement on the Silver Pond Apartments Driveway is in poor condition. Vehicle detection loops are currently functioning properly, but the pavement condition makes these loops susceptible to failure.



The color of the signal heads and visors is chipped and faded.



- The design plans indicate that this intersection is intended to operate as part of the Downtown closed-loop traffic signal system, however, the controller operates in the Free Mode at all times.
- Communication with the closed-loop system should be tested.
- Programmed time settings do not match the record plans. Some of the programmed times do not fall within the Min/Max ranges presented on the record plans.
- One of the two signal heads provided on the westbound and southbound approaches is located too close to the stop line and does not conform to the requirements of the MUTCD.
- The intersection does not include emergency pre-emption equipment.
- Tinting on the face of the pedestrian signal indications is peeling.
- Backplates are not provided on span wire mounted signal heads.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Qualitative Assessment

Overall, traffic signal equipment and intersection geometry are in poor condition. This intersection was constructed in 1997 and the equipment is now 15 years old. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

4 - Replacement Intersection

2.1.5 Intersection 26T - Center Street (Route 150) at North and South Elm Streets

This four-legged intersection is controlled by a semi-actuated traffic signal. A leading leftturn phase is provided for Center Street southbound vehicles in Phase 1 and northbound and southbound vehicles are permitted during Phase 2. An exclusive pedestrian phase is provided in Phase 5. North and South Elm Street signal phases are arranged in the standard NEMA dual ring configuration and feature leading left turn phases (Phase 3 and 7) which are followed by through phases (Phase 4 and 8). Left turns are permitted during the through phases. The signal currently operates in the Free Mode at all times. Vehicle signal heads are supported by a Y-type span wire assembly. An audible pedestrian tone is provided during the exclusive pedestrian phase. Wire loop detectors and shelf mounted amplifiers are used for vehicle detection.



The plan provided is dated April 1990. Concrete sidewalks are provided along each side on all roadways and sidewalk ramps and crosswalks are provided on all four corners. The following deficiencies were identified during the inventory:

Conduits are not sealed in the controller cabinet.



The pedestrian traffic signal push-buttons and signs are a mix of older and newer types.





The crosswalk pavement markings are in poor condition.



A ground rod is exposed and a riser conduit is open on the utility pole located on the northwest corner.



A drip loop has uncoiled and is hanging in front of a signal head.



- The lock on this cabinet should be changed to match the key used at most other Town maintained intersections.
- Programmed time settings do not match record plan times; however, all values are within the Min/Max ranges presented on the record plan.
- The record plans indicate that this intersection is intended to operate as part of the Downtown closed-loop traffic signal system, however it operates in the Free Mode at all times. Communication with the closed-loop system should be tested.
- Most existing signal indications are eight-inch diameter indications.
- One of the two signal heads provided on the eastbound approach is located too close to the stop line and does not conform to the requirements of the MUTCD.
- The intersection does not include emergency pre-emption equipment.
- A flash transfer relay is wired on the shelf, instead of in the back panel.
- Backplates are not provided on span wire mounted signal heads.
- The cabinet light bulb is burned out.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.

The color of the signal heads and visors is faded.

Qualitative Assessment

Overall, traffic signal equipment and intersection geometry are in poor condition. This intersection was constructed in 1990 and the equipment is now 22 years old. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

4 - Replacement Intersection

2.1.6 Intersection 27T - Center Street (Route 150) at North and South Main Streets

This four-legged intersection is controlled by a seven-phase, semi-actuated traffic signal. The Center Street eastbound and westbound approaches are served by leading protected left-turn phases (Phases 1 and 5). Left-turns are also permitted to move with the adjacent through movements in the following phase (Phases 2 and 6). The North/South Main Street approaches are provided with a single protected left-turn phase and a single through phase during which left-turns are also permitted to move. Pedestrians cross during an exclusive pedestrian phase. Right turn on red is prohibited on all approaches. Vehicle signal heads are supported by a single span wire assembly. An audible pedestrian tone is provided during the exclusive pedestrian phase. Wire loop detectors and shelf mounted amplifiers are used for vehicle detection.



The on-street master traffic signal controller is located at this intersection. The master is currently operating, but most connected intersections do not seem to be receiving plan changes from the master and therefore operate in the Free Mode at all times.

The provided plan is dated May 29, 1991, and is labeled a revision number four. An exclusive left-turn lane and a shared through/right-turn lane are provided on all approaches. A one way entrance to a parking lot for businesses along Main Street is located in the northwest quadrant of the intersection. Concrete sidewalks, sidewalk ramps and crosswalks are provided on all corners (including the parking lot entrance). Brick pavers, ornamental lighting and other streetscape amenities are also provided. The following deficiencies were identified during the inventory:

Conduits are not sealed in the controller cabinet.



The pedestrian push-buttons and signs are a mix of older and newer types.





Wire nuts are used for splice connections in one or more hand holes.

Several hand holes could not be opened due to rusted bolts.



Span poles and pedestrian poles have been painted, but the colors do not match and are faded.

Some span poles are missing bolt covers.





- The lock on the cabinet door was difficult to turn and the door was difficult to open.
- Programmed time settings do not match record plan times; however, all values are within the Min/Max ranges presented on the record plan.
- Communications between the on-street master and the local controllers should be tested and repaired where necessary.

- The record plans indicate that this intersection is intended to operate as part of the Downtown closed-loop traffic signal system, however it operates in the Free Mode at all times.
- One of the two signal heads provided on the northbound and southbound approaches is located too close to the stop line and does not conform to the requirements of the MUTCD.
- Most existing signal indications are eight-inch diameter indications.
- The intersection does not include emergency pre-emption equipment.
- Backplates are not provided on span wire mounted signal heads.
- The cabinet light bulb is burned out.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Qualitative Assessment

Overall, traffic signal equipment and intersection geometry are in poor condition. This intersection was constructed in 1991 and the equipment is now 21 years old. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

4 - Replacement Intersection

2.1.7 Intersection 28T - Center Street (Route 150) at North and South Orchard Streets

This four-legged intersection is controlled by a four-phase, semi-actuated traffic signal. The North Orchard Street approach intersects Center Street approximately 30 feet to the east of the South Orchard Street intersection with Center Street. The Center Street eastbound and westbound approaches are served during the first signal phase. Center Street eastbound left-turns are permitted to move with the adjacent through movements. The North/South Orchard Street approaches are provided with split phases, where each street is given its own signal phase. Pedestrians cross during an exclusive pedestrian phase. Right turn on red is prohibited on all approaches. Vehicle signal heads are supported by a single span wire assembly. An audible pedestrian tone is provided during the exclusive pedestrian phase. Wire loop detectors and shelf mounted

amplifiers are used for vehicle detection.



The provided plan is dated May-2004, and is marked as revision number five. Concrete sidewalks, sidewalk ramps and crosswalks are provided on all corners. Brick pavers, ornamental lighting and other streetscape amenities are also provided at this location. The following deficiencies were identified during the inventory:

Conduits are not sealed in the controller cabinet.



The pedestrian push-buttons are a mix of older and newer types.





Wire nuts are used for splice connections in one or more hand holes.

Some hand hole covers are not bonded.

Conduits are not sealed.



One or more span poles have been painted and do not match colors and are faded.

One or more span poles are missing bolt covers and/or exhibit slight corrosion at the base.





- An older Peek 3000 controller is currently in operation. It appears that this
 controller is a replacement for the Transyt 1880EL controller which sits nonoperational in the cabinet.
- Coordination parameters have not been programmed. The signal operates in the Free Mode at all times.
- Controller timings do not match the record plan, but all parameters are within the acceptable Min/Max ranges shown on the plan.
- All existing signal indications are eight-inch diameter indications.

- One of the two signal heads provided on the northbound, eastbound and westbound approaches is located too close to the stop line and does not conform to the requirements of the MUTCD.
- The intersection does not include emergency pre-emption equipment.
- The cabinet light bulb is burned out.
- Backplates are not provided on span wire mounted signal heads.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Qualitative Assessment

Overall, intersection geometry is in good condition, but the traffic signal equipment is in poor condition. This intersection was last updated in 2004 but most equipment is much older. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

3 - Capital Improvement Intersection

2.1.8 Intersection 29T - Hall Avenue (Route 150) at North Cherry Street

This four-legged intersection is controlled by a four-phase, fully-actuated traffic signal. Hall Avenue eastbound and westbound traffic are served by separate consecutive signal phases. North Cherry Street traffic is served by a single phase, and pedestrians are provided with an exclusive phase. Vehicle signal heads are supported by a single span wire assembly. An audible pedestrian tone is provided during the exclusive pedestrian phase. Wire loop detectors and rack mounted amplifiers are used for vehicle detection.

This traffic signal operates as part of the Downtown coordinated traffic signal system between 6:30 AM and 6:30 PM. The signal operates in the Free Mode during the overnight hours. Coordination and Time of Day functions are operating as programmed



This intersection is located 250 feet west of the Amtrak regional railroad line. Traffic signal operations are pre-empted during train crossings.

The provided plan is dated July-1997. This intersection is located within a mixed-use commercial/residential area. Concrete sidewalks are provided along all roadways and driveways are located in close proximity to the intersection. New ramps and sidewalks are present on the northwest and southwest corners. The following deficiencies were identified during the inventory:

A NO RIGHT TURN sign is leaning over the curb line.



One or more hand hole covers are not grounded.

Wire nuts are used for splice connections.

Hand hole covers have rusted or missing bolts.

Ducts are not sealed.



Pavement markings are worn.



A hand hole is partially buried.



- The system detector located on the departure lane of North Cherry Street northbound (SD8) is malfunctioning.
- The emergency vehicle phase selector card is not connected to the card rack; therefore, none of the emergency vehicle pre-emption phases function.
- Programmed time settings do not match the record plans. Some of the programmed times do not fall within the Min/Max ranges presented on the record plans.
- One of the two signal heads provided on the eastbound and westbound approaches is located too close to the stop line and does not conform to the requirements of the MUTCD.
- Backplates are not provided on span wire mounted signal heads.
- The cabinet light bulb is burned out.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Qualitative Assessment

Overall, intersection geometry is in good condition, but the traffic signal equipment is in poor condition. This intersection was constructed in 1997 and the equipment is now 15 years old. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

3 - Capital Improvement Intersection

2.1.9 Intersection 30T - Hall Avenue (Route 150) at Washington Street

This four-legged intersection is controlled by a four-phase, fully-actuated traffic signal. A leading protected left-turn signal phase is provided on the Hall Avenue eastbound approach. Washington Street traffic is served by a single signal phase, and pedestrians are provided with an exclusive signal phase. Vehicle signal heads are supported by a single span wire assembly. An audible pedestrian tone is provided during the exclusive pedestrian phase. Wire loop detectors and rack mounted amplifiers are used for vehicle detection.

Design plans show that this traffic signal is intended to operate as part of the Downtown coordinated traffic signal system between 7:00 AM and 9:00 PM, but the signal operates in the Free Mode at all times.



The provided plan is dated July-1997. Single approach and departure lanes are provided on each roadway. New concrete sidewalks and sidewalk ramps are present at this location. Crosswalks are present on all roadways. The following deficiencies were identified during the inventory:

Several hand holes and the controller cabinet were found in locations other than those shown on the plan.

Several hand holes had rusted or missing cover bolts.





The crosswalks and stop bars have not been painted on some approaches.



- System Detectors SD7 and SD8 on the departure lanes of Washington Street are malfunctioning.
- The stop bar detector (D4B) on the Washington Street southbound approach is malfunctioning.
- One of the two signal heads provided on the eastbound approach is located too close to the stop line and does not conform to the requirements of the MUTCD.
- The record plans indicate that the signal is intended to operate with two
 emergency vehicle pre-emption routines on Hall Avenue, however, no preemption routines are programed in the traffic signal controller. A rack mounted
 pre-emption phase selector card is present and powered in the cabinet, and two
 detectors are mounted on the overhead span wire.
- Programmed time settings do not match the record plans. Some of the programmed times fall outside of the Min/Max ranges presented on the record plans.
- The record plans indicate that this intersection is intended to operate as a part
 of the Downtown closed-loop traffic signal system, but coordination settings are
 not programmed in the traffic signal controller, and the signal operates in the
 Free Mode at all times.
- The cable drip loop for the Hall Avenue eastbound pre-emption detector has fallen out and the cable hangs in front of one of the Washington Street northbound signal faces.
- Backplates are not provided on span wire mounted signal heads.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Overall, traffic signal equipment and intersection geometry are in good condition. Updates were last performed at this intersection in 2008. The issues that are present are minor in nature and could be resolved by maintenance activities. The Qualitative Assessment category assigned to this intersection is:

2 - Maintenance Needed

2.1.10 Intersection 32T - Hall Avenue (Route 150) at Masonic Avenue/Fire Department Headquarters

This location consists of two separate T-type intersections which operate on the same traffic signal controller. The northern intersection is the intersection of Masonic Avenue and the driveway for the Fire Department Headquarters building, and the southern intersection is the intersection of Masonic Avenue and Masonic Drive. Both Masonic Drive and the Fire Department driveway approach Masonic Avenue from the west.

The Masonic Drive intersection consists of vehicle-actuated, two-phase, operation. The fire department driveway intersection is under flashing operation except during an emergency vehicle preemption, when a signal phase is called that stops northbound and southbound traffic in front of the fire department and permits northbound traffic to proceed at the Masonic Drive intersection. Vehicle signal heads are supported by a two span wire assemblies, with one assembly located at each intersection. Wire loop detectors and shelf mounted amplifiers are used for vehicle detection.

The provided plan is dated February-1998. The plan provided did not provide a plan view layout of the intersection and related



signal equipment. A single travel lane is provided on each approach. No sidewalks, sidewalk ramps or crosswalks are present at this location. The following deficiencies were identified during the inventory:

Signal head and visor color are faded and peeling.



The stop bar pavement markings are worn on all approaches.



- Traffic signal controller is out-dated, but appears to be operating safely and reliably.
- Programmed time settings do not match the record plans. Some of the programmed times do not fall within the Min/Max ranges presented on the record plans.
- The signal heads provided on the eastbound approach may be located too close to the stop line and may not conform to the requirements of the MUTCD.
- Pedestrian signals are not provided at this intersection.
- Backplates are not provided on span wire mounted signal heads.
- The cabinet does not have an internal light bulb to illuminate the cabinet when the cabinet door is opened.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Overall, traffic signal equipment and intersection geometry are in poor condition. This intersection was updated in 1998, but the equipment is much older than that. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

4 - Replacement Intersection

2.1.11 Intersection 54T - South Turnpike Road at Cook Hill Road

This three-legged, T-type intersection is controlled by a three-phase, fully-actuated traffic signal. The South Turnpike Road northbound approach is provided with a leading, actuated, left-turn phase and the South Turnpike Road northbound and southbound through movements follow in the next signal phase. Cook Hill Road is served in phase three. Vehicle signal heads are supported by a single span wire assembly. Pedestrians are permitted concurrently with parallel vehicle traffic. Wire loop detectors and shelf mounted amplifiers are used to provide vehicle detection.

The provided plan is dated February-1996. No sidewalks, sidewalk ramps, or crosswalks

are provided at this location. The following deficiencies were identified during the inventory:



One or more hand holes were not found.

Hand hole covers are not bonded.

Hand hole covers are missing bolts or could not be opened because of rust.

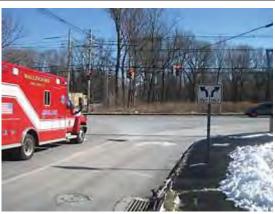


Access to pedestrian bush buttons is not ADA compliant.

The pedestal top is loose.



A lane use sign is missing on the Cook Hill southbound approach. One sign is provided; two signs are indicated on the plan.



- The pedestrian crosswalk is not striped and 8-inch vehicle indications are used to indicate the concurrent pedestrian phase across South Turnpike Road.
- Programmed time settings generally match the record plans, however, some of the programmed times fall outside of the Min/Max ranges presented on the plans.
- Backplates are not provided on span wire mounted signal heads.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Qualitative Assessment

Overall, traffic signal equipment and intersection geometry are in good condition. The issues that are present are minor in nature and could be resolved by maintenance activities. The Qualitative Assessment category assigned to this intersection is:

2 - Maintenance Needed

2.1.12 Intersection 55T - South Turnpike Road at Cheshire Road

This three-legged, T-type intersection is controlled by a four-phase, semi-actuated traffic signal. The South Turnpike Road northbound approach is provided with a leading, actuated, left-turn phase and the South Turnpike Road northbound and southbound through movements follow in the next two signal phases. The second through signal phase is used to activate an illuminate traffic sign in advance of the northbound stop line to warn drivers that the signal is red. Cheshire Road is served in phase three. Vehicle signal heads are supported by a single span wire assembly. Pedestrians are permitted to cross Cheshire Road concurrently with parallel vehicle traffic on South Turnpike Road. Wire loop detectors and shelf mounted amplifiers are used to provide vehicle detection.



The provided plan is dated May 29, 1996. The plan notes a revision in which traffic signal interconnection and emergency pre-emption were added and South Turnpike Road was widened to add a left-turn lane. A retaining wall is present along the east side of South Turnpike Road and two approach lanes are provided in each direction. The northbound approach on South Turnpike Road appears to have limited sight distance due to a crest vertical curve. A "When Flashing Stop Ahead" warning flasher is provided on this approach. No sidewalks, sidewalk ramps, or crosswalks are present at this location. The following deficiencies were identified during the inventory:

One or more hand holes were not found, were buried, or could not be opened.



One or more hand holes were not found, were buried, or could not be opened.



- Cheshire Road vehicle detection is malfunctioning. The signal phase operates on Max recall.
- One of the two signal heads provided on the eastbound approach is located too close to the stop line and does not conform to the requirements of the MUTCD.
- The existing signal indications on Cheshire Road are eight-inch diameter indications.
- Backplates are not provided on span wire mounted signal heads.
- The cabinet light bulb is burned out.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Qualitative Assessment

Overall, traffic signal equipment and intersection geometry are in good condition. Routine maintenance appears to be performed at this location. The issues that are present are minor in nature and could be resolved by maintenance activities. The Qualitative Assessment category assigned to this intersection is:

2 - Maintenance Needed

2.1.13 Intersection 56T - South Turnpike Road/Quinnipiac Street at Masonic Avenue/Route 15 Southbound Ramps

This five-legged intersection is controlled by a four-phase, fully-actuated traffic signal. The signal phases for the South Turnpike northbound and southbound Road approaches are arranged in the standard NEMA dual ring configuration, which provides leading, protected left-turns and lagging through phases. The Route 15 offramp is served by signal phase three, and Masonic Avenue is served by signal phase seven. The right turn movement from the Route 15 off-ramp to Quinnipiac Street northbound operates under Yield control. Most vehicle signal heads are supported by a single span wire assembly. One signal head is mounted on a pedestal. Wire loop detectors and shelf mounted amplifiers are used to provide vehicle detection. The shelf mounted vehicle loop detector amplifiers are



marked with tags that clearly describe the loop the amplifier is connected to.

The provided plan is dated May 30, 1996, and was revised on December 3, 1997 and June 29, 1998. No sidewalks, sidewalk ramps or crosswalks are provided at this location. The following deficiencies were identified during the inventory:

For one or more hand holes:

- Covers are not grounded,
- Standing water was observed in the bottom,
- Cover bolts are rusted or missing

Some hand holes could not be found.



The color of the signal heads and visors is chipped and faded.



A lane use sign has been damaged and is on the ground.

Other signs at this intersection show damage.



Two hand holes are within the vehicle tracking path and show damage.



A pedestal mounted signal is out of plumb.



- Programmed time settings do not match the record plans, however, all of the programmed times fall within the Min/Max ranges presented on the plans.
- One of the three signal heads provided on the northbound approach is located too close to the stop line and does not conform to the requirements of the MUTCD.
- Backplates are not provided on span wire mounted signal heads.
- The cabinet light bulb is burned out.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.

Qualitative Assessment

Overall, traffic signal equipment and intersection geometry are in good condition. Routine maintenance appears to be performed at this location. The issues that are present are minor in nature and could be resolved by maintenance activities. The Qualitative Assessment category assigned to this intersection is:

2 - Maintenance Needed

2.1.14 Intersection 57T - Quinnipiac Street at River Road/Route 15 Northbound Off-Ramp

This four-legged intersection is controlled by a four-phase, fully-actuated traffic signal. The Quinnipiac Street eastbound approach is provided with a leading, vehicle-actuated, left-turn phase and the Quinnipiac Street eastbound and westbound through movements follow in the next signal phase. The Route 15 Off-Ramp approach and the River Road approach are served by individual signal phases with are run sequentially. Most vehicle signal heads are supported by a single span wire assembly. The signal heads for the Quinnipiac eastbound approach are mounted horizontally to improve visibility for traffic passing below the Route 15 bridges. Pedestrians are permitted to cross Quinnipiac Street concurrently with parallel vehicle traffic on the Route 15 Off-Ramp and River



Street. Wire loop detectors and shelf mounted amplifiers are used to provide vehicle detection.

The provided plan is dated June 4, 1996. An advance warning sign is provided on Quinnipiac Street due to a horizontal curve sight line restriction. Sidewalks are provided along Quinnipiac Street under the Route 15 bridge and along the east side of River Road. The following deficiencies were identified during the inventory:

For one or more hand holes:

- The cover is not grounded,
- Cover bolts are rusted or missing.

Wire nuts are used for splice connections.

Many hand holes could not be found or may have been filled over with debris.





- A fault was present on detector D2B (Quinnipiac Street westbound through phase).
- The record plans indicate that this intersection is intended to operate as part of the South Turnpike Road Closed-Loop traffic signal system, however the signal operates in the Free Mode at all times.
- Programmed time settings do not match the record plans, but all of the programmed times fall within the Min/Max ranges presented on the plans.

- One of the two signal heads provided on the northbound and eastbound approaches is located too close to the stop line and does not conform to the requirements of the MUTCD.
- Backplates are not provided on span wire mounted signal heads.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- Pavement markings are worn.

Overall, intersection geometry is in good condition, but the traffic signal equipment is in poor condition. This intersection was constructed in 1996 and the equipment is now 16 years old. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

3 - Capital Improvement Intersection

2.1.15 Intersection 58T - Quinnipiac Street at Ward Street/Lufbery Avenue/Bull Avenue

This signal controls multiple intersections in close proximity to each other in a commercial/residential zone. The signal operates with four actuated vehicle phases and an actuated pedestrian phase. roadway receives an individual signal phase. These phases are run in consecutive order. Phase one serves Quinnipiac eastbound and westbound traffic, phase two is the exclusive pedestrian phase, phase three serves Bull Avenue, phase four serves Lufbery Avenue and phase five serves Ward Street. Vehicle turning moves are prohibited between the section of Quinnipiac Street east of the intersection and Ward Street. Vehicle signal heads are supported by three span wire assemblies, with one assembly located at each intersection. Wire loop detectors and rack mounted amplifiers are used to provide vehicle detection.



The provided plan is dated July-1997. Sidewalks, sidewalk ramps and crosswalks are provided along all roadways at this location. Several business and/or residential driveways are located within the intersection. The following deficiencies were identified during the inventory:

One or more hand hole covers are not grounded, and have rusted or missing cover bolts.

Wire nuts are used for splice connections in some hand holes.

Some hand holes could not be found.



The 8' pedestal and foundation opposite Bull Avenue is damaged.



A wire loop is loose on the span pole located on the south side of Ward Street.



on the north side of Quinnipiac St is filled with sediment/debris.



A signal face is obscured by curb line trees.



- A fault was present on detector D6 (Ward Street westbound approach)
- Programmed time settings do not match the record plans, and some of the programmed times do not fall within the Min/Max ranges presented on the plans.
- An emergency pre-emption phase selector card and an optical detector are present, but it does not appear that the emergency pre-emption system is functioning.
- The cabinet door was difficult to open.
- One of the two signal heads provided on the eastbound approach of Quinnipiac Street to Bull Avenue and Lufbery Avenue, the Lufbery Avenue northbound approach, and the Quinnipiac Street westbound approach to Lufbery Avenue is located too close to the stop line and does not conform to the requirements of the MUTCD.
- Both of the signal heads provided on the Bull Avenue southbound approach are located too close to the stop line and does not conform to the requirements of the MUTCD.
- Some of the existing signal indications are eight-inch diameter indications.

- Backplates are not provided on span wire mounted signal heads.
- An audible pedestrian tone is not provided during the exclusive pedestrian phase.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Overall, intersection geometry is in good condition, but the traffic signal equipment is in poor condition. This intersection was constructed in 1997 and the equipment is now 15 years old. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

3 - Capital Improvement Intersection

2.1.16 Intersection 59T - Quinnipiac Street at Washington Street

This four-legged intersection is controlled by a three-phase, fully-actuated traffic signal. The Quinnipiac Street eastbound and westbound approaches are served in phase one, an exclusive pedestrian phase is provided in phase two, and Washington Street northbound and southbound traffic is served in phase three. An audible pedestrian tone is provided during the exclusive pedestrian phase. Vehicle signal heads are supported by a single span wire assembly. Wire loop detectors and rack mounted amplifiers are used to provide vehicle detection.

The plan provided is dated July-1997. Concrete sidewalks and sidewalk ramps are present at each corner. The following deficiencies were identified during the inventory:



The "SLOW" pavement markings are faded.



Wire nuts are used for splice connections in at least one location.



Sidewalk ramps do not meet current ADA requirements lacking detectable warning strips and at least one location is in poor condition.



Pavement/Loop Condition is poor in at least one location.



- Faults are present on detectors D4 (Washington Street northbound) and D4C (Washington Street southbound).
- This signal is intended to operate as part of the Downtown closed-loop traffic signal system; however, it does not appear that the coordination plans are being used by the controller.
- An emergency pre-emption phase selector card is in the detector rack, but is not connected. Emergency vehicle pre-emption is not functioning.
- One of the two signal heads provided on the northbound and southbound approaches is located too close to the stop line and does not conform to the requirements of the MUTCD.
- A second Peek 3000 traffic signal controller is located in this cabinet. It is unclear if this second controller is operational.
- Backplates are not provided on span wire mounted signal heads.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Qualitative Assessment

Overall, traffic signal equipment and intersection geometry are in good condition. The issues that are present are minor in nature and could be resolved by maintenance activities. The Qualitative Assessment category assigned to this intersection is:

2 - Maintenance Needed

2.1.17 Intersection 60T - Quinnipiac Street at North and South Cherry Street

This four-legged intersection is controlled by a four-phase, fully-actuated traffic signal. The Quinnipiac Street eastbound and westbound approaches are served in Phase 1, an exclusive pedestrian phase is provided in Phase 2, the North Cherry Street southbound approach is given a leading green phase in Phase 3 and North and South Cherry Streets are served in Phase 4. Vehicle signal heads are supported by a single span wire assembly. An audible pedestrian tone is provided during the exclusive pedestrian phase. Wire loop detectors and rack mounted amplifiers are used to provide vehicle detection.

The plan provided is dated July-1997. Concrete sidewalks and sidewalk ramps are present at each corner. The following deficiencies were identified during the inventory:

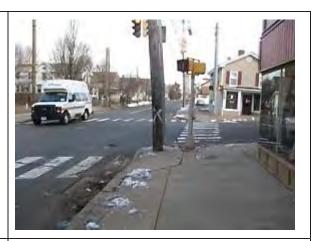
Pavement markings are in poor condition.



Existing sidewalk ramps do not meet current ADA requirements. They lack detectable warning strips and in some cases exceed slope requirements.



A wood utility pole on the southeast corner of the intersection appears to be moderately out of plumb.



Pedestal mounted signals on Quinnipiac Street westbound appear to be obscured by a tree.



- Programmed time settings do not match the record plans, however, all of the programmed times fall within the Min/Max ranges presented on the plans.
- This intersection is intended to operate as part of the Downtown Closed-Loop traffic signal system. This intersection operates in the Free Mode at all times and does not seem to be communicating with the master.
- An emergency pre-emption phase selector card is in the detector rack, but is not connected. Emergency vehicle pre-emption is not functioning.
- One of the two signal heads provided on the northbound approach is located too close to the stop line and does not conform to the requirements of the MUTCD.
- The Railroad Crossing graphic sign on Quinnipiac Street eastbound is missing.
- Backplates are not provided on span wire mounted signal heads.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Overall, traffic signal equipment and intersection geometry are in good condition. The issues that are present are minor in nature and could be resolved by maintenance activities. The Qualitative Assessment category assigned to this intersection is:

2 - Maintenance Needed

2.1.18 Intersection 61T - Ward Street at South Cherry Street

This four-legged intersection is controlled by an isolated, three-phase, semi-actuated traffic signal. The Ward Street eastbound and westbound approaches are served in Phase 1, an exclusive pedestrian phase is provided in Phase 2 and traffic on the South Cherry Street northbound and southbound approaches is served in Phase 3. Vehicle signal heads are supported by a single span wire assembly. Vehicle actuation is provided on the South Cherry Street Approach. The cycle length varies between 55 and 65 seconds. Wire loop detectors and shelf mounted amplifiers are used to provide vehicle detection.

The provided plan was dated 1973 with a notation that timings recorded in June-2002. Sidewalks, sidewalk ramps and crosswalks are



provided on all four approaches. The pedestals and pedestrian signals appear to have been recently replaced or updated. Otherwise, the existing traffic signal hardware was generally found to be in fair to poor condition with the following deficiencies or exceptions:

The crosswalk markings are faded, do not align with the sidewalk ramps, and appear to be too narrow.

The pedestrian signal faces are difficult to see as they do not face opposing ramps.

One or more ramps appear to be too steep (non-ADA compliant).



The signs for the pedestrian push-buttons are not consistent with pedestrian signal faces which are man/hand.

Pedestrian push-buttons are not all 2" diameter.



The vehicle detector loops are in poor condition.



The conduits in the controller cabinet are not sealed.



Signal heads appear to be old and have been repaired or are missing components.



A manhole within the cross walk has been paved over and is creating a tripping hazard.



- Programmed time settings do not match the record plans, however, all of the programmed times appear to fall within the Min/Max ranges presented on the plans.
- One of the two signal heads provided on the southbound, eastbound and westbound approaches is located too close to the stop line and does not conform to the requirements of the MUTCD.
- The two signal heads provided on the northbound approach are located too close to the stop line and do not conform to the requirements of the MUTCD.
- All existing vehicle signal indications are eight-inch diameter.
- Backplates are not provided on span wire mounted signal heads.
- The cabinet does not have an internal light bulb to illuminate the cabinet when the cabinet door is opened.
- An audible pedestrian tone is not provided during the exclusive pedestrian phase.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced,
- The color of the signal heads and visors is chipped and faded.

Overall, traffic signal equipment and intersection geometry are in poor condition. This intersection was constructed in 1973 but the equipment seems to be approximately 15 to 20 years old. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

4 - Replacement Intersection

2.1.19 Intersection 62T - Ward Street at South Orchard Street

This four-legged intersection is controlled by an isolated, three-phase, semi-actuated traffic signal. The Ward Street eastbound and westbound approaches are served in Phase 1, an exclusive pedestrian phase is provided in Phase Two, and the South Orchard Street northbound and southbound approaches are served in Phase 3. Vehicle signal heads are supported by a single span-wire assembly. Vehicle actuation is provided on the South Street Approach. Microwave Cherry detection is provided on South Orchard Street and wire loop detectors are provided on Ward Street. Rack mounted amplifiers are used to provide vehicle detection.

The provided plan is dated April-1997. This intersection consists of single lane



approaches in all directions. The location is primarily within a business/residential zone. A school is located in the vicinity of this intersection. Concrete sidewalks, sidewalk ramps and crosswalks are provided on all four corners. The following deficiencies were identified during the inventory:

Conduits are not sealed in the controller cabinet.



Pedestrian push-button signs are a mix of older and newer types.





One or more sidewalk ramps appear to be non ADA compliant.



A span pole is missing the hand hole cover, one or more bolt covers, and exhibits slight corrosion at the base.



Double yellow centerlines are missing on South Orchard Street.



- Programmed time settings do not match the record plans, however, all of the programmed times fall within the Min/Max ranges presented on the plans.
- One of the two signal heads provided on the northbound, eastbound and westbound approaches is located too close to the stop line and does not conform to the requirements of the MUTCD.
- Both of the signal heads provided on the southbound approach are located too close to the stop line and do not conform to the requirements of the MUTCD.

- The plans indicate that this intersection is intended to operate in coordination with intersection 5T (South Colony Road at Ward Street). Coordination settings are not programmed in the controller, and the intersection operates in the Free Mode at all times.
- The plans indicate that an emergency pre-emption phase is provided on South Orchard Street southbound. The intersection does not include emergency preemption equipment, and no pre-emption routines have been programmed.
- The audible pedestrian tone was not functioning at this intersection.
- Most existing vehicle signal indications are eight-inch diameter.
- Backplates are not provided on span wire mounted signal heads.
- The cabinet light bulb is burned out.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Overall, traffic signal equipment and intersection geometry are in poor condition. This intersection was constructed in 1997 and the equipment is now 15 years old. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

4 - Replacement Intersection

2.1.20 Intersection 63T - North Plains Industrial Road at Pent Highway

This intersection is a three-way, vehicle actuated, isolated, T-type intersection. An uncontrolled driveway approaches intersection from the west. A leading southbound left-turn phase is provided on North Plains Industrial Road, and the Pent Highway westbound right-turn is allowed to move as an overlapping movement during this leading signal phase. Vehicle signal heads are supported by a single span wire Pedestrian push-buttons are assembly. provided, but a crosswalk is not marked. Pedestrians move concurrently with westbound Pent Highway traffic. Wire loop detectors and rack mounted amplifiers are used to provide vehicle detection.

The provided plan is dated March-2001. This location is primarily commercial with



business access in close proximity to the intersection. There are no sidewalks at this location. A pedestrian crossing exists on North Plains Ind. The following deficiencies were identified during the inventory:

One or more hand hole covers were not found and may be filled over.

One or more hand holes had rusted or missing bolts in the cover.



The detector loops and pavement are in poor condition at several locations.



An additional signal face is mounted on the northeast span pole that is not noted on the signal plan.



Signal Face #3 is mounted horizontally in the field but not identified on the signal plan as such (may be due to visibility/height reasons).



A hand hole on the northeast corner of the intersection is being hit by turning vehicles.



- The adjacent property owner's chain link fence has been damaged and is leaning toward the controller cabinet, making it impossible to fully open the controller cabinet door.
- Eight-inch diameter red, yellow, and green vehicle signal heads are provided as pedestrian indications. These indications are timed with the vehicle phase, and do not show pedestrian walk or clearance intervals.
- Programmed time settings do not match the record plans; however, all values fall with the Min/Max range presented on the plan.
- Loop detectors in the North Plains Industrial Road southbound left-turn lane and Pent Highway westbound right turn lane are malfunctioning.
- The system detector on the Pent Highway departure lane (SD3) is malfunctioning.
- Backplates are not provided on span wire mounted signal heads.
- The pavement markings are in poor condition.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Overall, traffic signal equipment and intersection geometry are in poor condition. This intersection was updated in 2001 but the equipment seems to be much older. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

4 - Replacement Intersection

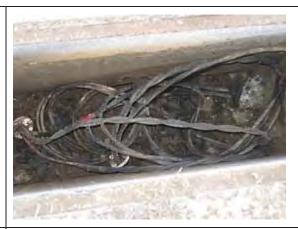
2.1.21 Intersection 64T - North Main Street Extension at Beaumont Road

This four-legged intersection is controlled by a four-phase, vehicle-actuated, traffic signal which operates as part of the North Main Street Extension coordinated traffic signal North Main Street Extension system. northbound and southbound traffic moves together with permitted left-turns. Beaumont Road eastbound traffic and the Community Pool driveway traffic are each served by split signal phases. An exclusive pedestrian phase is also provided which includes an audible tone. Vehicle signal heads are supported by a single span wire assembly. Wire loop detectors and rack mounted amplifiers are used to provide vehicle detection.

The provided plan was dated December-

1998. The entrance to the Town's community pool is located on the east leg of the intersection. Sidewalks are present along the east side of North Main Street Extension and also along the west side of North Main Street Extension to the north of Beaumont Road. Concrete sidewalk ramps and crosswalks are present on all four corners. The following deficiencies were identified during the inventory:

One or more hand hole covers are not grounded, and are rusted or missing cover bolts.



The span pole located in the northwest corner has been hit by large vehicles turning onto Beaumont Road.

The bolt covers are also damaged.



Tree pruning is required at Utility pole #5497 to clear vegetation away from the signal power supply.



A span wire mounted sign is out of plumb.



One or more of the pedestrian signals are corroding and/or have been damaged.



- The North Main Street Extension signal heads in the center of the intersection are held together using rope.
- The pre-emption detection card is not installed in the detector rack, but is stored in a cardboard box on the shelf.
- The pedestrian push-button on the southeast corner of the intersection appears
 to have been hit and the signal housing is broken. The push-button and signal
 head function properly.
- One of the two signal heads provided on the northbound and eastbound approaches is located too close to the stop line and does not conform to the requirements of the MUTCD.
- Both of the signal heads provided on the westbound approach are located too close to the stop line and do not conform to the requirements of the MUTCD.
- Backplates are not provided on span wire mounted signal heads.
- The cabinet light bulb is missing.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Overall, traffic signal equipment and intersection geometry are in poor condition. This intersection was constructed in 1998 and the equipment is now 14 years old. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

4 - Replacement Intersection

2.1.22 Intersection 65T - North Main Street Extension at Barnes Industrial Road/Wal-Mart Driveway

This four-legged intersection is controlled by a five-phase, vehicle-actuated, traffic signal which operates as part of the North Main Street Extension coordinated signal system. The master signal controller for this coordinated signal system is located in at this intersection. The signal phases for the North Main Street Extension northbound and southbound vehicle movements are arranged in a standard NEMA dual-ring configuration. Barnes Industrial Road and the Wal-Mart driveway are controlled by the same signal phase. Vehicle signal heads are supported by a single span wire assembly. Pedestrian push-buttons are provided, and pedestrians are permitted to cross North Main Street Extension concurrently with adjacent vehicle traffic, however, pedestrian indications and



marked crosswalks are not provided. Wire loop detectors and shelf mounted amplifiers are used to provide vehicle detection.

Two emergency vehicle pre-emption routines are programmed in the controller, detector cards are installed and powered, and pre-emption detectors are present. The pre-emption routines were not tested to ensure proper function.

The provided plan is dated October 1995. This intersection is located within a commercial area, and concrete sidewalks are only provided along the west side of North Main Street Extension. Two concrete sidewalk ramps are present on the northwest and southwest corners. The following deficiencies were identified during the inventory:

Some hand hole covers are not grounded, and have rusted or missing bolts.

Some hand holes could not be found and appear to have been filled over.

Wire nuts are used for splice connections in one or more hand holes.

Conduits are not sealed.

Heavy vehicles are riding over the curb while making right turns on to Barnes Industrial Road.





The length of the concrete ramp leading to the pushbutton on the northeast corner appears to exceed allowable ADA limits.



- One of the two signal heads provided on the eastbound approach is located too close to the stop line and does not conform to the requirements of the MUTCD.
- The existing vehicle signal indications for the Wal-Mart Driveway and Barnes Industrial Road approaches are eight-inch diameter.
- Backplates are not provided on span wire mounted signal heads.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.

- The wire drip loop at the top of the northeast span pole is uncoiled.
- The color of the signal heads and visors is chipped and faded.

Qualitative Assessment

Overall, intersection geometry is in good condition, but the traffic signal equipment is in poor condition. This intersection was constructed in 1995 and the equipment is now 17 years old. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

3 - Capital Improvement Intersection

2.1.23 Intersection 66T - North Main Street Extension at Ives Road

This four-legged intersection is controlled by a five-phase, vehicle-actuated, traffic signal which operates as part of the North Main Street Extension coordinated signal system. The signal phases for the North Main Street Extension northbound and southbound vehicle movements are arranged in a standard NEMA dual-ring configuration. Ives Road and the Westview Office Park driveway are controlled by the same signal phase. Vehicle signal heads are supported by a single span wire assembly. Pedestrian push-buttons are provided, and pedestrians are permitted to cross North Main Street Extension concurrently with adjacent vehicle traffic. Wire loop detectors and shelf mounted amplifiers are used to provide vehicle detection.



The provided plan is dated July-1997. A sidewalk and one sidewalk ramp is provided on the northwest corner of the intersection. There are no marked crosswalks at this location. The following deficiencies were identified during the inventory:

One or more hand hole covers are not grounded.

Some covers have rusted or missing bolts.

Wire nuts are used for splice connections.

Some hand holes could not be found.



A span mounted lane use sign (Left Turn Only) is out of plumb.



Trimming of vegetation is required at one utility pole.



Heavy vehicles are riding over the curb while making right turns onto Ives Road.



- Programmed time settings match the record plans for all intervals except MAX 1 for phase 1 (North Main Street Extension northbound left turn phase). The programmed values fall within the Min/Max ranges presented on the plan.
- Pedestrian push-buttons are provided, but pedestrian indications and marked crosswalks are not provided.
- Both of the signal heads provided on the westbound approach are located too close to the stop line and do not conform to the requirements of the MUTCD.
- The existing vehicle signal indications for the Ives Road and Westview Office Park Driveway approaches are eight-inch diameter.
- The foundation for the traffic signal controller has settled approximately 18 inches. The bottom of the cabinet door is partially blocked by soil.
- Backplates are not provided on span wire mounted signal heads.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Qualitative Assessment

Overall, intersection geometry is in good condition, but the traffic signal equipment is in poor condition. This intersection was constructed in 1997 and the equipment is now 15 years old. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

3 - Capital Improvement Intersection

2.1.24 Intersection 67T - North Main Street Extension at Stop & Shop Shopping Center Driveway

This four-legged intersection is controlled by a three-phase, vehicle-actuated, traffic signal. The North Main Street Extension northbound left-turn is the leading signal phase, which is followed by the northbound/southbound through phase. The Stop & Shop Shopping Center driveway and a driveway leading to an office building are served by the third signal phase. Vehicle signal heads are supported by a single span wire assembly. Pedestrian push-buttons are provided, but pedestrian indications and marked crosswalks are not provided. Wire loop detectors and shelf mounted amplifiers are used to provide vehicle detection.

The provided plan is dated August-1988. Concrete sidewalks are only provided along the west side of North Main Street from the



Stop and Shop Plaza driveway to the south. One concrete sidewalk ramp is present on the southwest corner. The following deficiencies were identified during the inventory:

Existing pavement marking s and lane use do not agree with the signal plan.



One or more hand hole covers were not grounded.

Some hand holes could not be found.

Wire nuts are used for splice connections.

Some covers have rusted or missing bolts.

Conduits are not sealed.



Pedestrian push-buttons are the older style and not easily accessible by pedestrians.



- Programmed time settings do not match the record plans, however, all of the programmed times fall within the Min/Max ranges presented on the plan.
- The traffic signal is intended to operate as part of the North Main Street Extension coordinated signal system, however, the signal operates in the Free Mode at all times.
- Emergency vehicle pre-emption is not provided at this intersection.
- The pedestrian push-buttons are not ADA compliant because there are not handicapped accessible routes leading to the buttons.
- One of the two signal heads provided on the eastbound and westbound approaches is located too close to the stop line and does not conform to the requirements of the MUTCD.
- Backplates are not provided on span wire mounted signal heads.
- The cabinet light bulb is burned out.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced,
- The color of the signal heads and visors is chipped and faded.

Qualitative Assessment

Overall, traffic signal equipment and intersection geometry are in poor condition. This intersection was constructed in 1988 and the equipment is now **24 years old**. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

4 - Replacement Intersection

2.1.25 Intersection 68T - Barnes Industrial Road North at Barnes Road

This four-legged intersection is controlled by a two-phase, vehicle-actuated traffic signal. East-west traffic along Barnes Road is served by Phase 1 and north-south traffic along Barnes Industrial Road North is served by Phase 2. All vehicle signal heads are LED type, 12 inch diameter, and supported by a single span wire assembly. Pedestrian crosswalks, pedestrian signal heads, and emergency vehicle pre-emption are not provided at this intersection. All equipment in this cabinet is manufactured by Naztec. Wire loop detectors and shelf mounted amplifiers are used to provide vehicle detection.

The provided plan is dated August-1996. This intersection is located in an industrial area. No sidewalks, sidewalk ramps or crosswalks



are provided. The following deficiencies were identified during the inventory:

One or more hand hole covers were not grounded.

Some hand holes could not be found.

Wire nuts are used for splice connections.

Some covers have rusted or missing bolts.

Conduits are not sealed.



The pavement in the vicinity of the vehicle loop detectors is in poor condition.



Vehicles are impacting the northwest and northeast curb lines.



- A detector fault was present on loop D1 (Barnes Road westbound approach).
- Programmed time settings do not match the record plans, and, some of the programmed times do not fall within the Min/Max ranges presented on the plan.
- Emergency vehicle pre-emption is not provided at this intersection.
- One of the two signal heads provided on the northbound and southbound approaches is located too close to the stop line and does not conform to the requirements of the MUTCD.
- Visors are missing on the following two signal heads:
 - o Barnes Road: eastbound green indication
 - o Barnes Industrial Road North: southbound green indication
- The existing vehicle signal indications for the Barnes Industrial Road approaches are eight-inch diameter.
- The lock on this cabinet should be changed to use the same key as all other Town owned intersections.
- Vegetation around the cabinet should be trimmed.
- Backplates are not provided on span wire mounted signal heads.

- The cabinet light bulb is missing.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced,
- The color of the signal heads and visors is chipped and faded.

Qualitative Assessment

Overall, intersection geometry is in good condition, but the traffic signal equipment is in poor condition. This intersection was constructed in 1996 and the equipment is now 16 years old. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

3 - Capital Improvement Intersection

2.1.26 Intersection 69T - Research Parkway at Bristol-Myers Squibb Main Driveway

This three-legged, T-type intersection operates as an isolated, fully-actuated, threephase traffic signal. The Research Parkway southbound left-turn is the leading signal which is followed phase, by northbound/southbound through phase. The Bristol-Myers Squibb driveway is served by the third signal phase. Vehicle signal heads are supported by a single span wire Pedestrian push-buttons are assembly. provided, and pedestrians are permitted to cross Research Parkway concurrently with the driveway traffic, however, marked crosswalks are not provided. Wire loop detectors and rack mounted amplifiers are used to provide vehicle detection.

The provided plan is dated June-2001.No sidewalks, sidewalk ramps, or crosswalks are



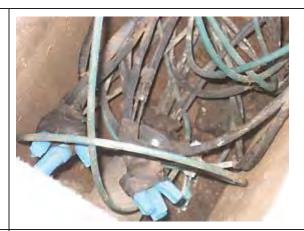
provided at this location. The following deficiencies were identified during the inventory:

One or more hand hole covers were not grounded.

Some hand holes could not be found.

Wire nuts are used for splice connections.

Some covers have rusted or missing bolts.



Sidewalk access is not provided to the Pedestrian push-buttons.



Lane restriction signs are missing on the northbound approach.



- Eight-inch diameter red, yellow, and green vehicle signal heads are provided as pedestrian indications. These indications are timed with the vehicle phase, and do not show pedestrian walk or clearance intervals.
- Programmed time settings do not match the record plans, however, all of the programmed times do fall within the Min/Max ranges presented on the plan.
- One of the two signal heads provided on the westbound approach is located too close to the stop line and does not conform to the requirements of the MUTCD.

- Emergency vehicle pre-emption is not provided at this location.
- Backplates are not provided on span wire mounted signal heads.
- The cabinet does not have an internal light bulb to illuminate the cabinet when the cabinet door is opened.
- Dust and dirt should be vacuumed from the cabinet and the air filter should be replaced.
- The color of the signal heads and visors is chipped and faded.

Qualitative Assessment

Overall, traffic signal equipment and intersection geometry are in good condition. The issues that are present are minor in nature and could be resolved by maintenance activities. The Qualitative Assessment category assigned to this intersection is:

2 - Maintenance Needed

2.1.27 Intersection 71T - Cook Hill Road at Oakdale Theater North Driveway

This is a T-type intersection with a flashing beacon signal. Flashing yellow indications are provided for Cook Hill Road traffic and a flashing red indication is provided for Oakdale Theater north driveway traffic. These indications are supported by a single span wire assembly. Traffic on the Oakdale Theater north driveway is controlled by a STOP sign.

A cluster of four flood lights are mounted below the flashing indications to illuminate the roadway below. The flood lights are controlled by a toggle switch located in the pedestal mounted controller cabinet.

The following deficiencies were identified during the inventory:



• Dust and dirt should be vacuumed from the cabinet.

Qualitative Assessment

Overall, traffic signal equipment and intersection geometry are in good condition. No major issues were found. The Qualitative Assessment category assigned to this intersection is:

1 - Compliant Intersection

2.1.28 Intersection 72T - South Turnpike Road at Oakdale Theater East Driveway

This is a T-type intersection with a flashing beacon signal. A flashing yellow indication is displayed to traffic on South Turnpike Road and a flashing red indication is displayed to vehicles on the Oakdale Theater driveway. These indications are supported by a single span wire assembly. Traffic on the Oakdale Theater east driveway is controlled by a STOP sign.

A cluster of four flood lights are mounted below the flashing indications to illuminate the roadway below. The flood lights are controlled by a toggle switch located in the controller cabinet mounted on the southern span pole.

The following deficiencies were identified during the inventory:



- A bulb in one of the overhead flood lights is burned out and should be replaced.
- The light bulb provided in this cabinet is burned out.
- Pavement markings are faded.
- Dust and dirt should be vacuumed from the cabinet.

Qualitative Assessment

Overall, traffic signal equipment and intersection geometry are in good condition. No major issues were found. The Qualitative Assessment category assigned to this intersection is:

1 - Compliant Intersection

2.1.29 Intersection 73T - John Street at South Cherry Street

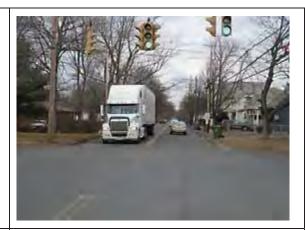
This four-legged intersection is controlled by a two-phase, fixed-time traffic signal. North-south traffic along South Cherry Street is served by phase one and east/west traffic along John Street is served by Phase 2. Vehicle signal heads are LED type, 12 inch diameter, and supported by a single span wire assembly. Pedestrian crosswalks, pedestrian signal heads, and emergency vehicle pre-emption are not provided at this intersection. Traffic signal equipment is contained in a small, pedestal mounted, traffic controller cabinet.

A plan of this intersection does not exist. The following deficiencies were identified during the inventory:



A wire drip loop is uncoiled.

Pavement markings are faded.



Heavy vehicles are riding over the curb line in the southeast corner of the intersection.



- Traffic Signal warrants should be reviewed at this location to confirm that traffic signal operations are still warranted.
- Vehicle detection is not provided.
- The signal heads provided on the southbound approach are located too close to the stop line and do not conform to the requirements of the MUTCD.
- The existing signal timing does not match the timing specified in the STC permit.
- Backplates are not provided on span wire mounted signal heads.
- The cabinet does not have an internal light bulb to illuminate the cabinet when the cabinet door is opened.
- Dust and dirt should be vacuumed from the cabinet.
- The color of the signal heads and visors is faded.

Qualitative Assessment

Overall, intersection geometry is in fair condition, but the traffic signal equipment is in poor condition. This STC permit is dated 1958, but most of the equipment seems to be approximately 20 years old. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

3 - Capital Improvement Intersection

2.1.30 Intersection 74T - Hope Hill Road at Yalesville Fire Department

This is a T-type intersection controlled by a flashing traffic signal. Flashing yellow indications are displayed to traffic on Hope Hill Road and flashing red indications are displayed to vehicles on the Yalesville Fire Department driveway. The traffic signal displays steady red indications on the Hope Hill Road approaches and steady green indications on the Fire Station driveway approach when fire trucks exit the fire station. A push-button is located in the fire station to actuate the signal phase for the Fire Station approach.

The following deficiencies were identified during the inventory:

The conduits in the controller cabinet are not sealed.



Multiple risers and loose wiring are present around the weather-heads.



- The cabinet lock and door assembly should be repaired. Entry into the cabinet was very difficult.
- Programmed time settings do not match the record plans, and some of the programmed times do not fall within the Min/Max ranges presented on the plan.
- Backplates are not provided on span wire mounted signal heads.
- Dust and dirt should be vacuumed from the cabinet.

Qualitative Assessment

Overall, intersection geometry is in good condition, but the traffic signal equipment is in poor condition. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

3 - Capital Improvement Intersection

2.1.31 Intersection 75T - North Colony Street (US Route 5) at Holy Trinity Church

This location consists of an overhead spot light. The switch to activate the spot light is located approximately nine feet above the ground on a utility pole located in southeast corner of the intersection.

The following deficiencies were identified during the inventory:

3. A bulb in one of the overhead spot lights is burned out.



There are no pedestrian ramps for the marked crosswalks on North Colony Road.





Qualitative Assessment

Overall, the overhead spot lights are in good condition, but the lack of sidewalk ramps should be addressed. The issues that are present will require more than routine maintenance to resolve. The Qualitative Assessment category assigned to this intersection is:

3 - Capital Improvement Intersection

3.0 QUALITATIVE ASSESSMENT RESULTS

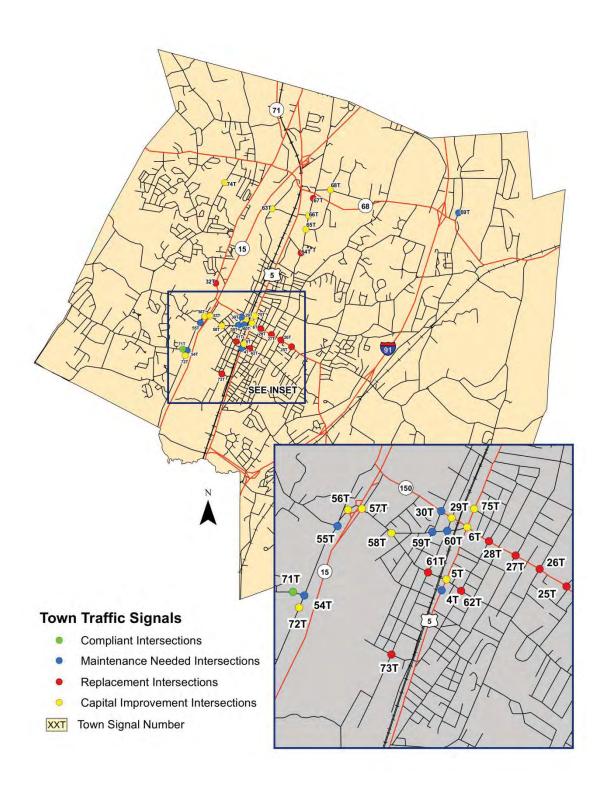
Based on the intersection inventory results, the Qualitative Assessments of the project intersections are summarized in Table 1 and in Figure 2.

Table 1 - Qualitative Assessment Summary by Intersection

Intersection		Qualitative Assessment			
4T	South Colony Road (US Route 5) at Walgreens Shopping Center Driveway	2 - Maintenance Needed			
5T	South Colony Road (US Route 5) at Ward Street	3 - Capital Improvement Intersection			
6T	North and South Colony Road (US Route 5) at Hall Avenue, Center Street, Quinnipiac Street	3 - Capital Improvement Intersection			
25T	Center Street (Route 150) at Silver Pond Apartments Driveway	4 - Replacement Intersection			
26T	Center Street (Route 150) at North and South Elm Streets	4 - Replacement Intersection			
27T	Center Street (Route 150) at North and South Main Streets	4 - Replacement Intersection			
28T	Center Street (Route 150) at North and South Orchard Streets	3 - Capital Improvement Intersection			
29T	Hall Avenue (Route 150) at North Cherry Street	3 - Capital Improvement Intersection			
30T	Hall Avenue (Route 150) at Washington Street	2 - Maintenance Needed			
32T	Hall Avenue (Route 150) at Masonic Avenue/Fire Dept. Headquarters	4 - Replacement Intersection			
54T	South Turnpike Road at Cook Hill Road	2 - Maintenance Needed			
55T	South Turnpike Road at Cheshire Road	2 - Maintenance Needed			
56T	South Turnpike Road/Quinnipiac Street at Masonic Avenue/Route 15 Southbound Ramps	2 - Maintenance Needed			
57T	Quinnipiac Street at River Road/Route 15 Northbound Off-Ramp	3 - Capital Improvement Intersection			
58T	Quinnipiac Street at Ward Street	3 - Capital Improvement Intersection			
59T	Quinnipiac Street at Washington Street	2 - Maintenance Needed			
60T	Quinnipiac Street at North and South Cherry Street	2 - Maintenance Needed			

Inters	ection	Qualitative Assessment			
61T	Ward Street at South Cherry Street	4 - Replacement Intersection			
62T	Ward Street at South Orchard Street	4 - Replacement Intersection			
63T	North Plains Industrial Road at Pent Highway	4 - Replacement Intersection			
64T	North Main Street Extension at Beaumont Road	4 - Replacement Intersection			
65T	North Main Street Extension at Barnes Industrial Road/Wal-Mart Driveway	3 - Capital Improvement Intersection			
66T	North Main Street Extension at Ives Road	3 - Capital Improvement Intersection			
67T	North Main Street Extension at Stop & Shop Shopping Center Driveway	4 - Replacement Intersection			
68T	Barnes Industrial Road North at Barnes Road	3 - Capital Improvement Intersection			
69T	Research Parkway at Bristol-Myers Squibb Main Driveway	2 - Maintenance Needed			
71T	Cook Hill Road at Oakdale Theater North Driveway	1 - Compliant Intersection			
72T	South Turnpike Road at Oakdale Theater East Driveway	1 - Compliant Intersection			
73T	John Street at South Cherry Street	3 - Capital Improvement Intersection			
74T	Hope Hill Road at Yalesville Fire Department	3 - Capital Improvement Intersection			
75T	North Colony Street (US Route 5) at Holy Trinity Church	3 - Capital Improvement Intersection			

Figure 2 - Intersection Status



The Qualitative Assessment categories are summarized in Table 2.

Table 2 - Qualitative Assessment Summary by Category

Qualitative Assessment		Number of Intersections
1 - Compliant		2
2 - Maintenance Needed		8
3 - Capital Improvement		12
4 - Replacement		9
5 - Red Flag		0
	TOTAL	31

4.0 RECOMMENDATIONS

This report has identified improvements which can be realized in the traffic signals which are owned by the City of Wallingford. The improvement program is divided into two major categories:

- 4. System Level Improvements These are projects which apply to the overall performance of the system. These include actions to improve traffic signal operations as a whole. Projects which address multiple locations, operational plans and similar actions.
- 5. Intersection Level Improvements These items are recommended to bring a specific location to its original design, repair malfunctioning equipment or upgrade an intersection to current standards.

The following sections will present the recommendations to improvement of the overall traffic signal system and to improve individual intersections.

4.1 System Level Improvements

Vehicle Detector Repair

A number of detectors were found to be malfunctioning. This is normally due to pavement deterioration and requires replacement of loop detectors. The number of these detectors is sufficient to justify the development of a system wide detector repair project. We recommend the City program this improvement as a separate effort from other intersection repairs. This project is recommended at a funding level of \$30,000.

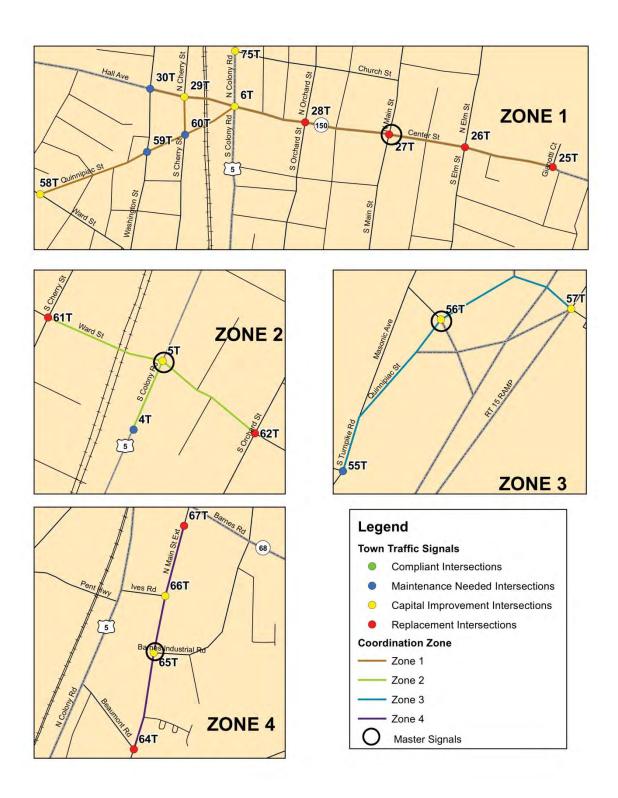
System Coordination Repair

Our inspection and inventory noted that many intersections were originally designed to function in a coordinated fashion. This is a very efficient means to reduce stops and vehicle delay between closely spaced intersections. In Wallingford, there are four such "Systems". These systems are presented in Figure X. None of the four systems are functioning. In two cases, the coordination units were missing or not connected. In the others, the coordination hardware did not appear to be communicating with its neighboring intersections.

Efficiency of the overall traffic signal system could be improved by restoring the existing traffic signal interconnect communication system, and implementing traffic signal coordination settings. Most project intersections are programmed with the coordination settings shown on the plans, but these settings not being implemented. A few project intersections do not have the coordination setting programmed. This traffic signal inventory found that 21 project intersections should be operating with coordination plans. The Inventory revealed that only six project intersections are actually implementing the intended coordination plans.

We recommend a System Coordination Project which will examine each "System" and determine the reasons for failure. This project would test coordination cable for deterioration, re-establish operation plans, and verify that local intersections are responding to system commands from the master location.

Figure 3 - Coordination Zones



A number of coordination technologies are now available for locations where the existing traffic signal hard-wire interconnect communication system is not functioning and the repair would be too costly to implement. Wireless communication technology has advanced to a point where it can be considered a reliable and cost effective solution. Time-based traffic signal coordination can also be implemented by using the highly accurate time data transmitted by Global Positioning System (GPS) satellites. These data are used to synchronize the internal clocks of the local traffic signal controllers. This project is recommended to be funded at \$35,000.

System Retiming Update

Major improvement in traffic operations could be obtained by retiming Wallingford's traffic signals.

The coordination plans for most project intersections are over 15 years old. Traffic patterns may have changed during that period of time. A traffic study is recommended to assess the existing coordination plans and recommend new settings where needed.

This project would include collecting counts at each intersection supplemented by Automatic Traffic Data assembled from existing CDOT data and other information the Town has. This data would be used to reset the timing at each intersection and develop updated system timing plans. We note that for this effort to be fully effective it would have to be preceded by the local repair efforts. The project could be first performed for non-coordinated intersections and then the effort bundled with each system repair. System work should include modeling of system operations using a software package similar to Synchro. We recommend a budget of \$50,000.00 for this effort.

4.2 System Level Improvements Cost Estimate Summary

The estimated system project costs are summarized in Table 3.

Table 3 - System Level Improvements Cost Estimate Summary

Project		Estimated Cost
Vehicle Detector Repair		\$30,000
System Coordination Repair		\$35,000
System Timing Update		\$50,000
	TOTAL	\$115,000

4.3 Intersection Level Improvements

The following sections present the improvements recommended for each project intersection and the estimated cost associated with those improvements. Recommended improvements are based on the Qualitative Assessment category

assigned to each intersection. The recommended improvements where determined as follows:

- 1. **Compliant Intersection:** There are generally no recommended improvements for these intersections.
- Maintenance Needed: Recommended improvements include items required to address identified deficiencies to bring the intersections in to a good state of repair. Reapplication of pavement markings is also included at all intersections in this category.
- 3. Capital Improvement Intersection: Recommended improvements generally consist of replacement of damaged/obsolete aboveground traffic signal equipment (e.g. controller, cabinet, span poles, pedestals, signal heads, emergency pre-emption equipment, loop detectors, wiring, regulatory signs and foundations). The hand hole and conduit system is assumed to be reused where possible as replacement of these elements could disturb existing roadways and sidewalks.
- 4. **Replacement Intersection:** Recommended improvements generally consist of replacement of all aboveground traffic signal equipment (e.g. controller, cabinet, span poles, pedestals, signal heads, emergency pre-emption equipment, loop detectors, wiring, regulatory signs and foundations). The hand hole and conduit system is assumed to be reused where possible. Damaged conduit and hand holes are assumed to be replaced. Replacement of these items may require areas of roadway and sidewalk construction. Reapplication of pavement markings is included where roadway work may be necessary.

4.3.1 Intersection 4T - South Colony Road (US Route 5) at Walgreens Shopping Center Driveway

This intersection is assessed as a "Maintenance needed" intersection. Recommended improvements include:

- Modify traffic signal controller settings to match record plans and implement traffic signal coordination.
- Repair/replace emergency vehicle pre-emption functions.
- Replace all existing traffic signal heads.
- Eliminate the use of wire nuts for cable splices in hand holes.
- Ensure vehicle loop detectors are functioning properly.

The estimated cost to implement these recommended improvements is \$37,000.

4.3.2 Intersection 5T - South Colony Road (US Route 5) at Ward Street

This intersection is assessed as a "Capital Improvement" intersection. Recommended Improvements include:

 Replace most of the existing traffic signal equipment, with reuse of the existing cabinet, and reuse of the existing hand hole and conduit system where possible.
 The existing traffic signals and mast arms controlling traffic at the railroad crossing would be retained.

The estimated cost to implement these recommended improvements is \$203,000.

4.3.3 Intersection 6T - North and South Colony Road (US Route 5) at Hall Avenue, Center Street, Quinnipiac Street

This intersection is assessed as a "Capital Improvement" intersection. Recommended Improvements include:

Replace most existing traffic signal equipment, with reuse of the existing cabinet
and reuse of the existing hand hole and conduit system where possible. The
existing traffic signals and mast arms controlling traffic at the railroad crossing
would be retained.

The estimated cost to implement these recommended improvements is \$216,000.

4.3.4 Intersection 25T - Center Street (Route 150) at Silver Pond Apartments Driveway

This intersection is assessed as a "Replacement" intersection. Recommended Improvements include:

- Replace all existing traffic signal equipment.
- Reconstruct sidewalk ramps.
- Mill and resurface sections of the approach roadways where needed for vehicle detector placement.

The estimated cost to implement these recommended improvements is \$150,000.

4.3.5 Intersection 26T - Center Street (Route 150) at North and South Elm Streets

This intersection is assessed as a "Replacement" intersection. Recommended Improvements include:

- Replace all existing traffic signal equipment.
- Reconstruct sidewalk ramps.
- Mill and resurface sections of the approach roadways where needed for vehicle detector placement.

The estimated cost to implement these recommended improvements is \$204,000.

4.3.6 Intersection 27T - Center Street (Route 150) at North and South Main Streets

This intersection is assessed as a "Replacement" intersection. Recommended Improvements include:

- Replace all existing traffic signal equipment. The existing traffic signal
 configuration consists of two span poles and a single span wire. The
 recommended configuration would include four span poles to support the span
 wire in in a box configuration. This configuration ensures that all signal heads
 can be located in conformance with the requirements of the MUTCD.
- Reconstruct sidewalk ramps.
- Mill and resurface sections of the approach roadways where needed for vehicle detector placement.

The estimated cost to implement these recommended improvements is \$238,000.

4.3.7 Intersection 28T - Center Street (Route 150) at North and South Orchard Streets

This intersection is assessed as a "Capital Improvement" intersection. Recommended Improvements include:

 Replace most existing traffic signal equipment, with reuse of the existing hand hole and conduit system where possible. The existing traffic signal configuration consists of two span poles and a single span wire. The recommended configuration would include four span poles to support the span wire in in a box configuration. This configuration ensures that all signal heads can be located in conformance with the requirements of the MUTCD.

The estimated cost to implement these recommended improvements is \$151,000.

4.3.8 Intersection 29T - Hall Avenue (Route 150) at North Cherry Street

This intersection is assessed as a "Capital Improvement" intersection. Recommended Improvements include:

 Replace most existing traffic signal equipment, with reuse of the existing hand hole and conduit system where possible. The existing traffic signal configuration consists of two span poles and a single span wire. The recommended configuration would include four span poles to support the span wire in in a box configuration. This configuration ensures that all signal heads can be located in conformance with the requirements of the MUTCD.

The estimated cost to implement these recommended improvements is \$163,000.

4.3.9 Intersection 30T - Hall Avenue (Route 150) at Washington Street

This intersection is assessed as a "Maintenance needed" intersection. Recommended improvements include:

- Modify traffic signal controller settings to match record plans and implement traffic signal coordination.
- Repair/replace emergency vehicle pre-emption functions
- Eliminate the use of wire nuts for cable splices in hand holes.

The estimated cost to implement these recommended improvements is \$51,000.

4.3.10 Intersection 32T - Hall Avenue (Route 150) at Masonic Avenue/Fire Department Headquarters

This intersection is assessed as a "Replacement" intersection. Recommended Improvements include:

- Replace all existing traffic signal equipment.
- Mill and resurface the approach of Masonic Avenue within 100 feet of the intersection. Hall Avenue was recently resurfaced.

The estimated cost to implement these recommended improvements is \$164,000.

4.3.11 Intersection 54T - South Turnpike Road at Cook Hill Road

This intersection is assessed as a "Maintenance needed" intersection. Recommended improvements include:

- Modify traffic signal controller settings to match record plans and implement traffic signal coordination.
- Repair/replace emergency vehicle pre-emption functions
- Install new pedestrian signals and crosswalk markings on South Turnpike Road.
- Eliminate the use of wire nuts for cable splices in hand holes.

The estimated cost to implement these recommended improvements is \$33,000.

4.3.12 Intersection 55T - South Turnpike Road at Cheshire Road

This intersection is assessed as a "Maintenance needed" intersection. Recommended improvements include:

- Replace the existing traffic signal controller, program settings to match record plans and implement traffic signal coordination.
- Eliminate the use of wire nuts for cable splices in hand holes.

The estimated cost to implement these recommended improvements is \$30,000.

4.3.13 Intersection 56T - South Turnpike Road/Quinnipiac Street at Masonic Avenue/Route 15 Southbound Ramps

This intersection is assessed as a "Maintenance needed" intersection. Recommended improvements include:

- Replace the existing traffic signal controller, program settings to match record plans and implement traffic signal coordination.
- Replace the on-street master traffic signal controller.
- Replace all traffic signal heads.
- Eliminate the use of wire nuts for cable splices in hand holes.

- Relocate the two hand holes located in the roadway.
- Repair/replace damaged regulatory signs.

The estimated cost to implement these recommended improvements is \$87,000.

4.3.14 Intersection 57T - Quinnipiac Street at River Road/Route 15 Northbound Off-Ramp

This intersection is assessed as a "Capital Improvement" intersection. Recommended Improvements include:

 Replace most existing traffic signal equipment, with reuse of the existing hand hole and conduit system where possible. The advance warning sign with flashing beacons located on Quinnipiac Street is included in the equipment replacement.

The estimated cost to implement these recommended improvements is \$142,000.

4.3.15 Intersection 58T - Quinnipiac Street at Ward Street

This intersection is assessed as a "Capital Improvement" intersection. Recommended Improvements include:

 Replace most existing traffic signal equipment, with reuse of the existing hand hole and conduit system where possible.

The estimated cost to implement these recommended improvements is \$211,000.

4.3.16 Intersection 59T - Quinnipiac Street at Washington Street

This intersection is assessed as a "Maintenance needed" intersection. Recommended improvements include:

- Replace the existing traffic signal controller, program settings to match record plans and implement traffic signal coordination.
- Repair/replace emergency vehicle pre-emption functions.
- Eliminate the use of wire nuts for cable splices in hand holes.
- Mill and resurface sections of approach roadways where the existing roadway has deteriorated near existing vehicle loop detector locations.
- Replace vehicle loop detectors in areas of milling and resurfacing.
- Reconstruct sidewalk ramps.
- Replace all loop detector amplifier cards.
- Reapply pavement markings.

The estimated cost to implement these recommended improvements is \$77,000.

4.3.17 Intersection 60T - Quinnipiac Street at North and South Cherry Street

This intersection is assessed as a "Maintenance needed" intersection. Recommended improvements include:

- Replace existing traffic signal controller with a new controller, program settings to match record plans and implement traffic signal coordination.
- Replace the existing bowed wooden span pole with a new steel span pole
- Eliminate the use of wire nuts for cable splices in hand holes.
- Reconstruct sidewalk ramps.
- Repair/replace damaged regulatory signs.

The estimated cost to implement these recommended improvements is \$69,000.

4.3.18 Intersection 61T - Ward Street at South Cherry Street

This intersection is assessed as a "Replacement" intersection. Recommended Improvements include:

- Replace all existing traffic signal equipment. The existing traffic signal
 configuration consists of two span poles and a single span wire. The
 recommended configuration would include four span poles to support the span
 wire in in a box configuration. This configuration ensures that all signal heads
 can be located in conformance with the requirements of the MUTCD.
- Reconstruct sidewalk ramps.
- Mill and resurface sections of the approach roadways where needed for vehicle detector placement.

The estimated cost to implement these recommended improvements is \$204,000.

4.3.19 Intersection 62T - Ward Street at South Orchard Street

This intersection is assessed as a "Replacement" intersection. Recommended Improvements include:

- Replace all existing traffic signal equipment. The existing traffic signal
 configuration consists of two span poles and a single span wire. The
 recommended configuration would include four span poles to support the span
 wire in in a box configuration. This configuration ensures that all signal heads
 can be located in conformance with the requirements of the MUTCD.
- Reconstruct sidewalk ramps.
- Mill and resurface sections of the approach roadways where needed for vehicle detector placement.

The estimated cost to implement these recommended improvements is \$182,000.

4.3.20 Intersection 63T - North Plains Industrial Road at Pent Highway

This intersection is assessed as a "Replacement" intersection. Recommended Improvements include:

- Replace all existing traffic signal equipment.
- Reconstruct sidewalk ramps.

 Mill and resurface sections of the approach roadways where needed for vehicle detector placement.

The estimated cost to implement these recommended improvements is \$151,000.

4.3.21 Intersection 64T - North Main Street Extension at Beaumont Road

This intersection is assessed as a "Replacement" intersection. Recommended Improvements include:

- Replace all existing traffic signal equipment. The existing traffic signal
 configuration consists of two span poles and a single span wire. The
 recommended configuration would include four span poles to support the span
 wire in in a box configuration. This configuration ensures that all signal heads
 can be located in conformance with the requirements of the MUTCD.
- Reconstruct sidewalk ramps.
- Mill and resurface sections of the approach roadways where needed for vehicle detector placement.

The estimated cost to implement these recommended improvements is \$176,000.

4.3.22 Intersection 65T - North Main Street Extension at Barnes Industrial Road/Wal-Mart Driveway

This intersection is assessed as a "Capital Improvement" intersection. Recommended Improvements include:

Replace most existing traffic signal equipment, with reuse of the existing cabinet
and reuse of the existing hand hole and conduit system where possible. The
closed-loop mater controller is located at this intersection and is included in the
equipment replacement.

The estimated cost to implement these recommended improvements is \$176,000.

4.3.23 Intersection 66T - North Main Street Extension at Ives Road

This intersection is assessed as a "Capital Improvement" intersection. Recommended Improvements include:

 Replace most existing traffic signal equipment, with reuse of the existing hand hole and conduit system where possible.

The estimated cost to implement these recommended improvements is \$148,000.

4.3.24 Intersection 67T - North Main Street Extension at Stop & Shop Shopping Center Driveway

This intersection is assessed as a "Replacement" intersection. Recommended Improvements include:

- Replace all existing traffic signal equipment.
- Reconstruct sidewalk ramps.
- Mill and resurface sections of the approach roadways where needed for vehicle detector placement.

The estimated cost to implement these recommended improvements is \$179,000.

4.3.25 Intersection 68T - Barnes Industrial Road North at Barnes Road

This intersection is assessed as a "Capital Improvement" intersection. Recommended Improvements include:

 Replace most existing traffic signal equipment, with reuse of the existing cabinet and reuse of the existing hand hole and conduit system where possible.

The estimated cost to implement these recommended improvements is \$103,000.

4.3.26 Intersection 69T - Research Parkway at Bristol-Myers Squibb Main Driveway

This intersection is assessed as a "Maintenance needed" intersection. Recommended improvements include:

- Replace the 3-section signal head that is currently fastened together with rope.
- Eliminate the use of wire nuts for cable splices in hand holes.
- Repair/replace damaged regulatory signs.
- Reapply pavement markings.

The estimated cost to implement these recommended improvements is \$18,000.

4.3.27 Intersection 71T - Cook Hill Road at Oakdale Theater North Driveway

This intersection is assessed as a "Compliant" intersection. No improvements are recommended for this intersection.

4.3.28 Intersection 72T - South Turnpike Road at Oakdale Theater East Driveway

This intersection is assessed as a "Compliant" intersection. No physical improvements are recommended for this intersection. An analysis of traffic signal warrants is recommended at this location to assess the need to upgrade the existing flashing beacon to for a fully functional traffic signal.

4.3.29 Intersection 73T - John Street at South Cherry Street

This intersection is assessed as a "Capital Improvement" intersection. Recommended Improvements include:

Replace all existing traffic signal equipment, with reuse of the existing hand hole
and conduit system where possible. An analysis of traffic signal warrants is
recommended at this location to assess the need to retain this existing traffic
signal.

The estimated cost to implement these recommended improvements is \$115,000.

4.3.30 Intersection 74T - Hope Hill Road at Yalesville Fire Department

This intersection is assessed as a "Capital Improvement" intersection. Recommended Improvements include:

 Replace most existing traffic signal equipment, with reuse of the existing cabinet and reuse of the existing hand hole and conduit system where possible.

The estimated cost to implement these recommended improvements is \$77,000.

4.3.31 Intersection 75T - North Colony Street (US Route 5) at Holy Trinity Church

This intersection is assessed as a "Capital Improvement" intersection. This location is currently unsignalized. An analysis of traffic signal warrants is recommended to assess the need for a pedestrian traffic signal or a flashing pedestrian hybrid signal.

Physical improvement recommendations include construction of sidewalk ramps and reconstruction of sidewalk areas as needed.

The estimated cost to implement these recommended improvements is \$13,000.

4.4 Intersection Level Cost Estimate Summary

The estimated intersection costs are summarized in Table 4 through Table 7. Estimates are based on 2011 ConnDOT Weighted Unit Prices.

Table 4 - Intersection Cost Estimate Summary

Quali	Total	
2	Maintenance Needed Intersections	\$402,000
3	Capital Improvement Intersections	\$1,718,000
4	Replacement Intersections	\$1,648,000
	TOTAL	\$3,768,000

Table 5 - Intersection Cost Estimate Summary - Maintenance Needed Intersections

		Estimated Cost				
Inters	ection	Equipment	Software	Geometric	Total	Priority
59T	Quinnipiac Street at Washington Street	\$47,000	\$0	\$30,000	\$77,000	1
60T	Quinnipiac Street at North and South Cherry Street	\$46,000	\$0	\$16,000	\$69,000	2
4T	South Colony Road (US Route 5) at Walgreens Shopping Center Driveway	\$32,000	\$5,000	\$0	\$37,000	3
30T	Hall Avenue (Route 150) at Washington Street	\$51,000	\$0	\$0	\$51,000	4
54T	South Turnpike Road at Cook Hill Road	\$27,000	\$5,000	\$1,000	\$33,000	5
55T	South Turnpike Road at Cheshire Road	\$30,000	\$0	\$0	\$30,000	6
56T	South Turnpike Road/Quinnipiac Street at Masonic Avenue/Route 15 Southbound Ramps	\$87,000	\$0	\$0	\$87,000	7
69T	Research Parkway at Bristol-Myers Squibb Main Driveway	\$13,000	\$5,000	\$0	\$18,000	8
				TOTAL	\$402,000	

Table 6 - Intersection Cost Estimate Summary - Capital Improvement Intersections

Intersection		Estimated Cost				
		Equipment	Software	Geometric	Total	Priority
28T	Center Street (Route 150) at North and South Orchard Streets	\$151,000	\$0	\$0	\$151,000	1
5T	South Colony Road (US Route 5) at Ward Street	\$184,000	\$5,000	\$14,000	\$203,000	2
6T	North and South Colony Road (US Route 5) at Hall Avenue, Center Street, Quinnipiac Street	\$197,000	\$0	\$19,000	\$216,000	3
29T	Hall Avenue (Route 150) at North Cherry Street	\$163,000	\$0	\$0	\$163,000	4
57T	Quinnipiac Street at River Road/Route 15 Northbound Off-Ramp	\$142,000	\$0	\$0	\$142,000	5
58T	Quinnipiac Street at Ward Street	\$207,000	\$0	\$4,000	\$211,000	6
65T	North Main Street Extension at Barnes Industrial Road/Wal-Mart Driveway	\$176,000	\$0	\$0	\$176,000	7
66T	North Main Street Extension at Ives Road	\$148,000	\$0	\$0	\$148,000	8
68T	Barnes Industrial Road North at Barnes Road	\$103,000	\$0	\$0	\$103,000	9
73T	John Street at South Cherry Street	\$115,000	\$0	\$0	\$115,000	10
74T	Hope Hill Road at Yalesville Fire Department	\$77,000	\$0	\$0	\$77,000	11
75T	North Colony Street (US Route 5) at Holy Trinity Church	\$2,000	\$0	\$11,000	\$13,000	12
				TOTAL	\$1,718,000	

Table 7 - Intersection Cost Estimate Summary - Replacement Intersections

Intersection		Estimated Cost				
		Equipment	Software Geometric		Total	Priority
27T	Center Street (Route 150) at North and South Main Streets	\$192,000	\$0	\$46,000	\$238,000	1
26T	Center Street (Route 150) at North and South Elm Streets	\$161,000	\$0	\$43,000	\$204,000	2
25T	Center Street (Route 150) at Silver Pond Apartments Driveway	\$132,000	\$0	\$18,000	\$150,000	3
67T	North Main Street Extension at Stop & Shop Shopping Center Driveway	\$163,000	\$0	\$16,000	\$179,000	4
61T	Ward Street at South Cherry Street	\$166,000	\$0	\$38,000	\$204,000	5
64T	North Main Street Extension at Beaumont Road	\$163,000	\$0	\$13,000	\$176,000	6
63T	North Plains Industrial Road at Pent Highway	\$135,000	\$0	\$16,000	\$151,000	7
62T	Ward Street at South Orchard Street	\$166,000	\$0	\$16,000	\$182,000	8
32T	Hall Avenue (Route 150) at Masonic Avenue/Fire Dept. Headquarters	\$149,000	\$0	\$15,000	\$164,000	9
				TOTAL	\$1,648,000	

4.5 Recommended Prioritization

The following list of priorities is based primarily on the condition of the existing equipment as determined by the field inventory and a review of traffic signal maintenance logs.

Priority Area 1: Repair vehicle detection, traffic signal coordination, and traffic signal timing system wide. Simple timing changes and coordination of operations at adjacent intersections could significantly improve traffic operations within the Town. Repair of broken vehicle detectors will also reduce the amount of unused time given to non-coordinated signal phases. These are relatively low cost improvements that could be implemented in a short period of time and could have a significant effect on traffic signal operations town wide.

Priority Area 2: Implement recommended improvements along Center Street which include the following intersections:

- 25T Center Street (Route 150) at Silver Pond Apartments Driveway
- 26T Center Street (Route 150) at North and South Elm Streets
- 27T Center Street (Route 150) at North and South Main Streets
- 28T Center Street (Route 150) at North and South Orchard Streets

These intersections are among the oldest in the Town system. Most of the equipment is outdated and reaching the end of its useful life. A review of maintenance records shows that these intersections require the most on-going maintenance.

Priority Area 3: Implement recommended improvements at project intersections along Hall Avenue, Quinnipiac Street, and South Colony Road which include the following intersections:

- 5T South Colony Road (US Route 5) at Ward Street
- 6T North and South Colony Road (US Route 5) at Hall Avenue, Center Street,
 Quinnipiac Street
- 29T Hall Avenue (Route 150) at North Cherry Street
- 57T Quinnipiac Street at River Road/Route 15 Northbound Off-Ramp
- 58T Quinnipiac Street at Ward Street
- 59T Quinnipiac Street at Washington Street
- 60T Quinnipiac Street at North and South Cherry Street
- 61T Ward Street at South Cherry Street

Priority Area 4: Implement recommended improvements at all intersections categorized as "Maintenance needed" which include the following intersections:

- 4T South Colony Road (US Route 5) at Walgreens Shopping Center Driveway
- 30T Hall Avenue (Route 150) at Washington Street
- 54T South Turnpike Road at Cook Hill Road
- 55T South Turnpike Road at Cheshire Road

- 56T South Turnpike Road/Quinnipiac Street at Masonic Avenue/Route 15 Southbound Ramps
- 59T Quinnipiac Street at Washington Street
- 60T Quinnipiac Street at North and South Cherry Street
- 69T Research Parkway at Bristol-Myers Squibb Main Driveway

Most intersections in this category require improvements that are in the low to middle price range. These intersections could most likely be repaired using existing town maintenance contracts in a short time frame. These improvements were given a lower priority because they are typically not critical to the safe operation of the traffic signal.

Priority Area 5: Implement recommended improvements along North Main Street Extension which includes the following intersections:

- 64T North Main Street Extension at Beaumont Road
- 65T North Main Street Extension at Barnes Industrial Road/Wal-Mart Driveway
- 66T North Main Street Extension at Ives Road
- 67T North Main Street Extension at Stop & Shop Shopping Center Driveway

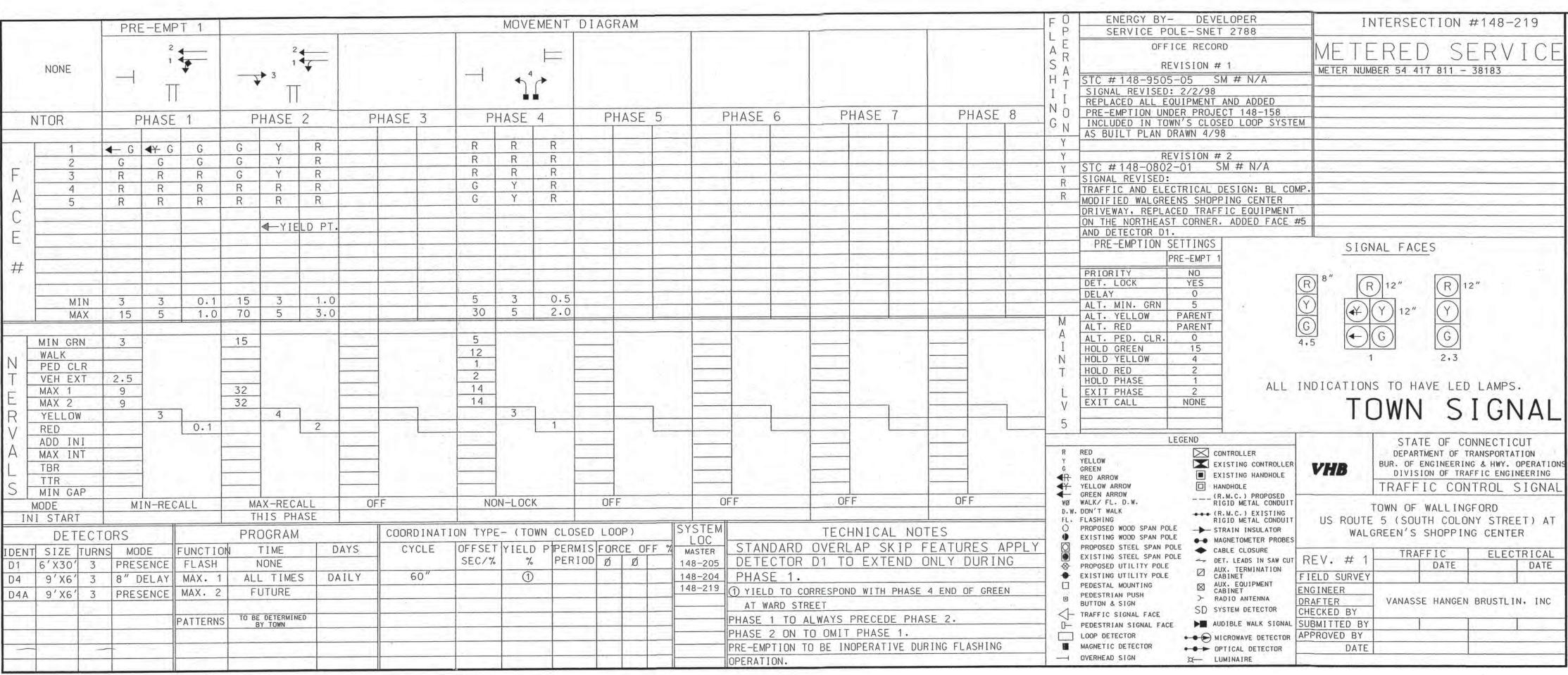
These closely spaced intersections located in a heavy Industrial and commercial area could benefit from improved timing and traffic signal coordination. The traffic signal located at the driveway from the Stop & Shop Plaza appears to be the oldest in the Town system.

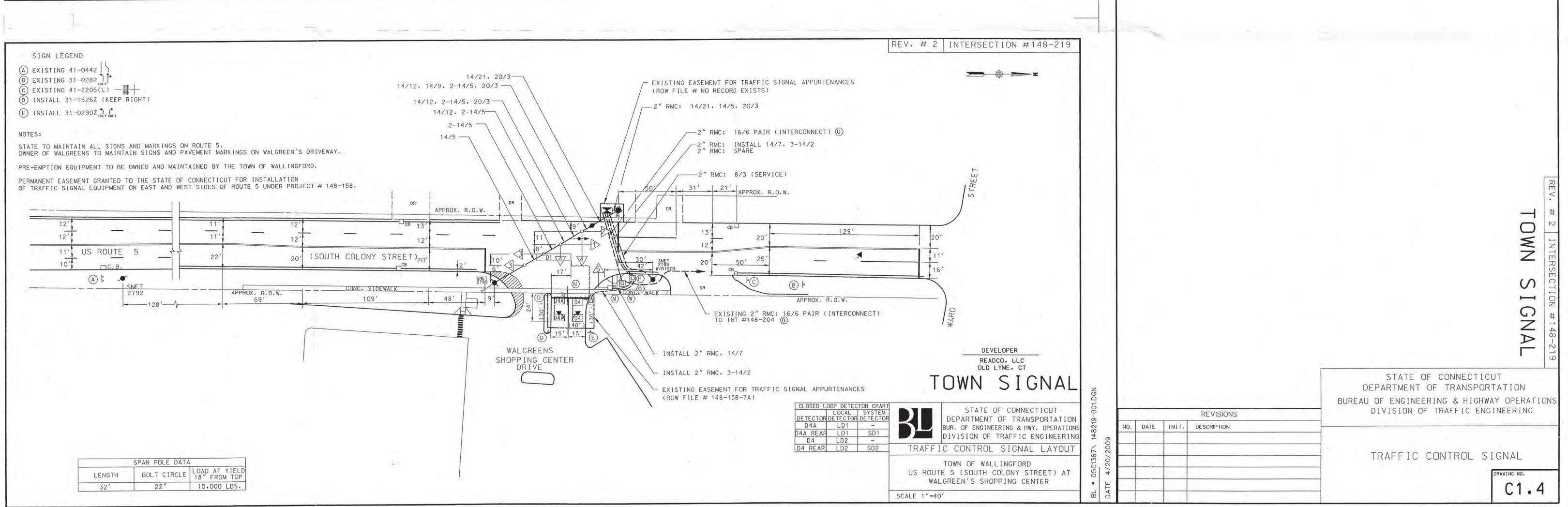
Priority Area 6: Implement recommended improvements at the remaining project intersections which include:

- 32T Hall Avenue (Route 150) at Masonic Avenue/Fire Dept. Headquarters
- 62T Ward Street at South Orchard Street
- 63T North Plains Industrial Road at Pent Highway
- 68T Barnes Industrial Road North at Barnes Road
- 73T John Street at South Cherry Street
- 74T Hope Hill Road at Yalesville Fire Department
- 75T North Colony Street (US Route 5) at Holy Trinity Church

BETA Group, Inc. 98







F.H.W.A. STATE TOWN FED. AID PROJ. NO. YEAR ROUTE SHEET TOTAL NO. SHEET TOTAL NO. WALLINGFORD 2008 5 C1.4

CONSTRUCTION NOTES

ALL TRAFFIC SIGNAL EQUIPMENT IS EXISTING, EXCEPT AS NOTED. PLAN BASED ON AS BUILT FROM PROJECT # 148-158.

STAKE ALL R.O.W. PRIOR TO EXCAVATION.

NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455 72 HOURS PRIOR TO ANY WORK

CONTRACTOR TO PAINT PAVEMENT MARKINGS IN WALGREEN'S DRIVEWAY AT LOCATION SHOWN. ERADICATE CONFLICTING MARKINGS.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT AND RETURN TO TOWN.

- (M) INSTALL PEDESTRIAN PUSH BUTTON, 8' ALUMINUM PEDESTAL, FOUNDATION AND FACE #5 AT CORNER OF SIDEWALK, PEDESTRIAN PUSH-BUTTON SHALL BE PIEZO TYPE.
- (N) INSTALL NEW LOOP DETECTORS D1, D4, D4A, HANDHOLES AND CONDUIT AS SHOWN.

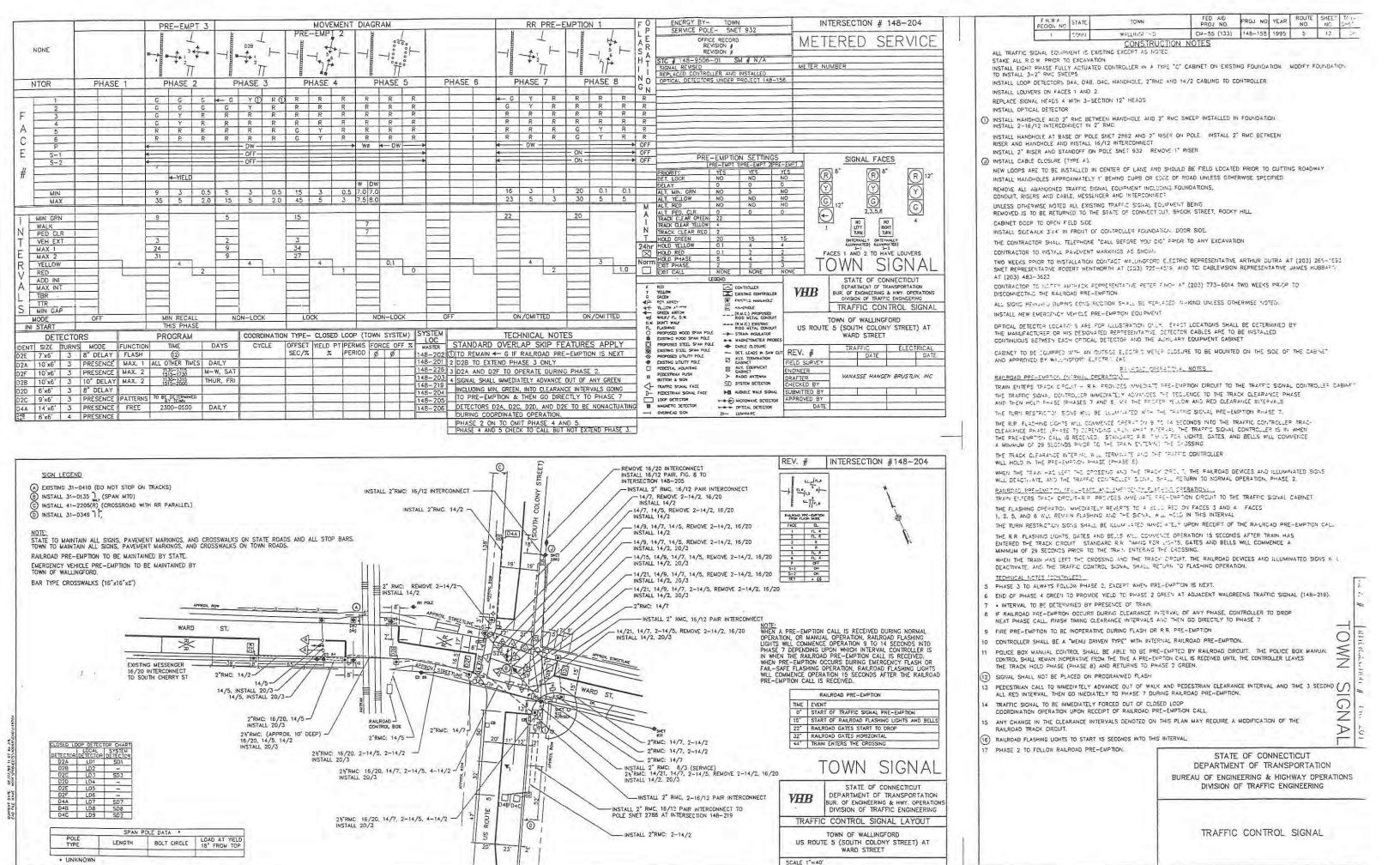
 DETECTORS TO BE INSTALL IN CENTER OF LANE AND 8' APART, UNLESS

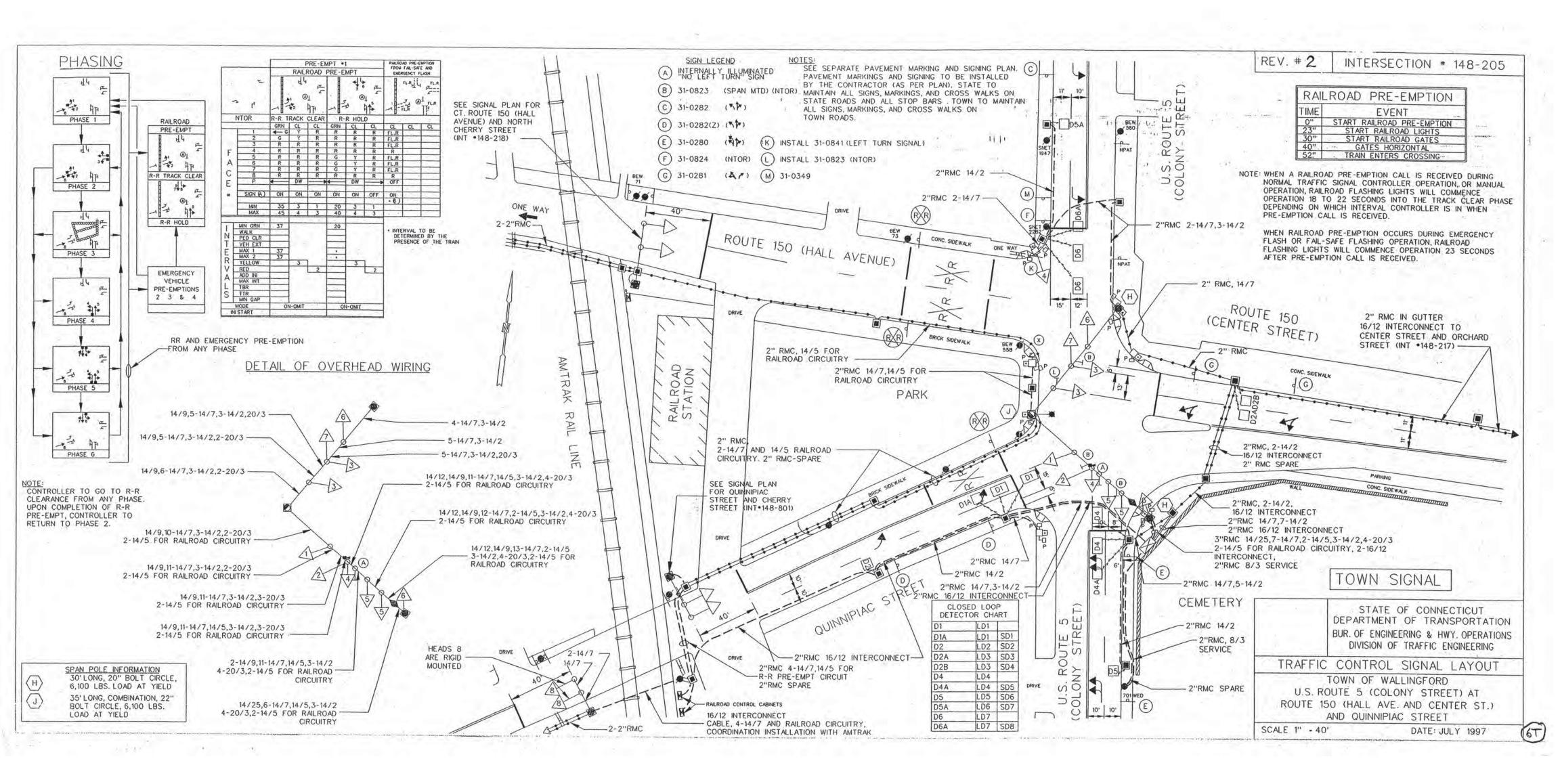
 OTHERWISE NOTED. FURNISH AND INSTALL LOOP AMPLIFIER FOR D1. MODIFY

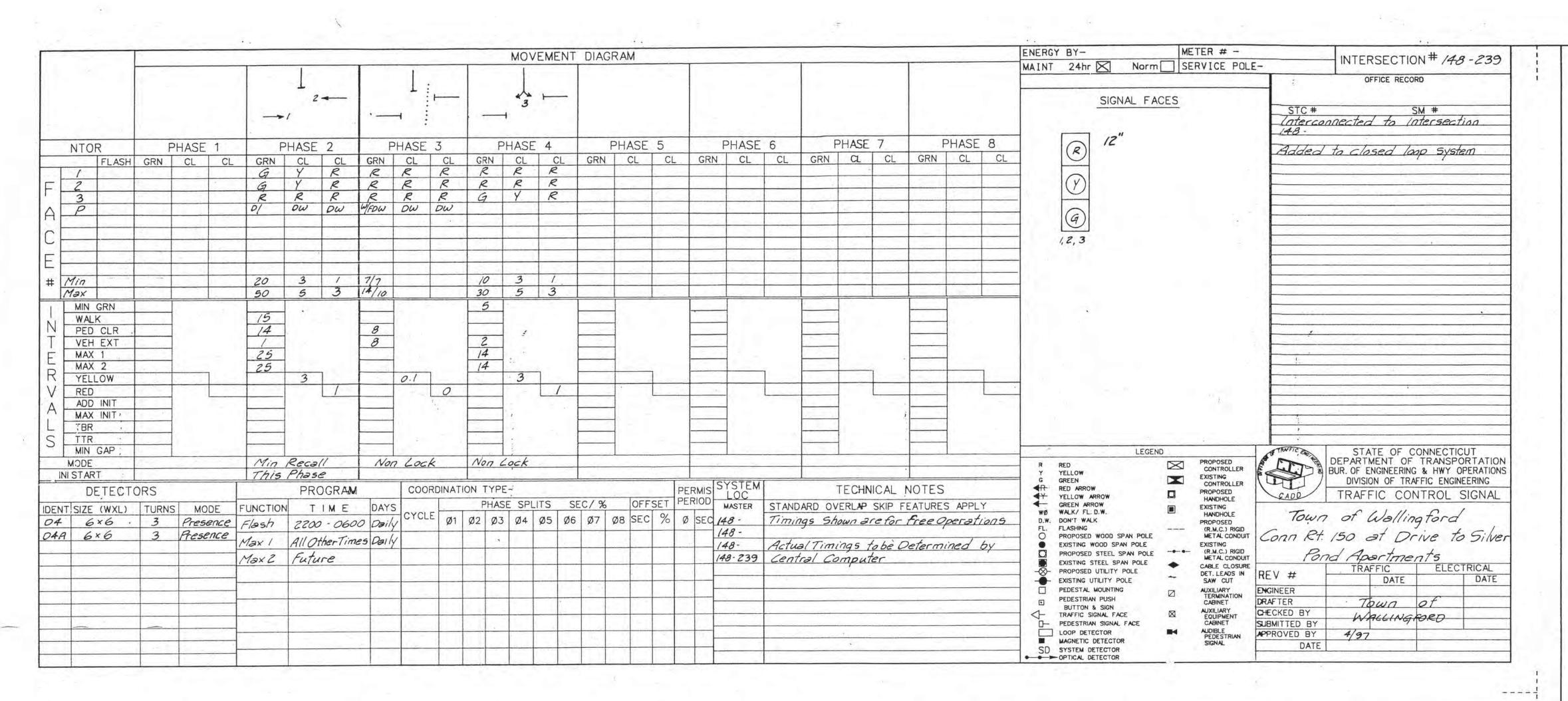
 CONTROLLER TO PROVIDE ACTUATION AND EXTENSION AS SHOWN ON THE PLAN.
- P EXTEND EXISTING CONDUITS TO NEW HANDHOLE LOCATIONS.
 REMOVE OLD CABLES. REMOVE EXISTING HANDHOLES.
- REROUTE EXISTING INTERCONNECT CABLE THROUGH NEW HANDHOLE. NO SPLICES WILL BE PERMITTED. IF CABLE SLACK IS INSUFFICIENT TO REROUTE WITHOUT SPLICING, REPLACE ENTIRE RUN BETWEEN THIS CONTROLLER AND WARD STREET.
- (W) INSTALL 30"X30" HANDHOLE. ALL OTHERS TYPE II.

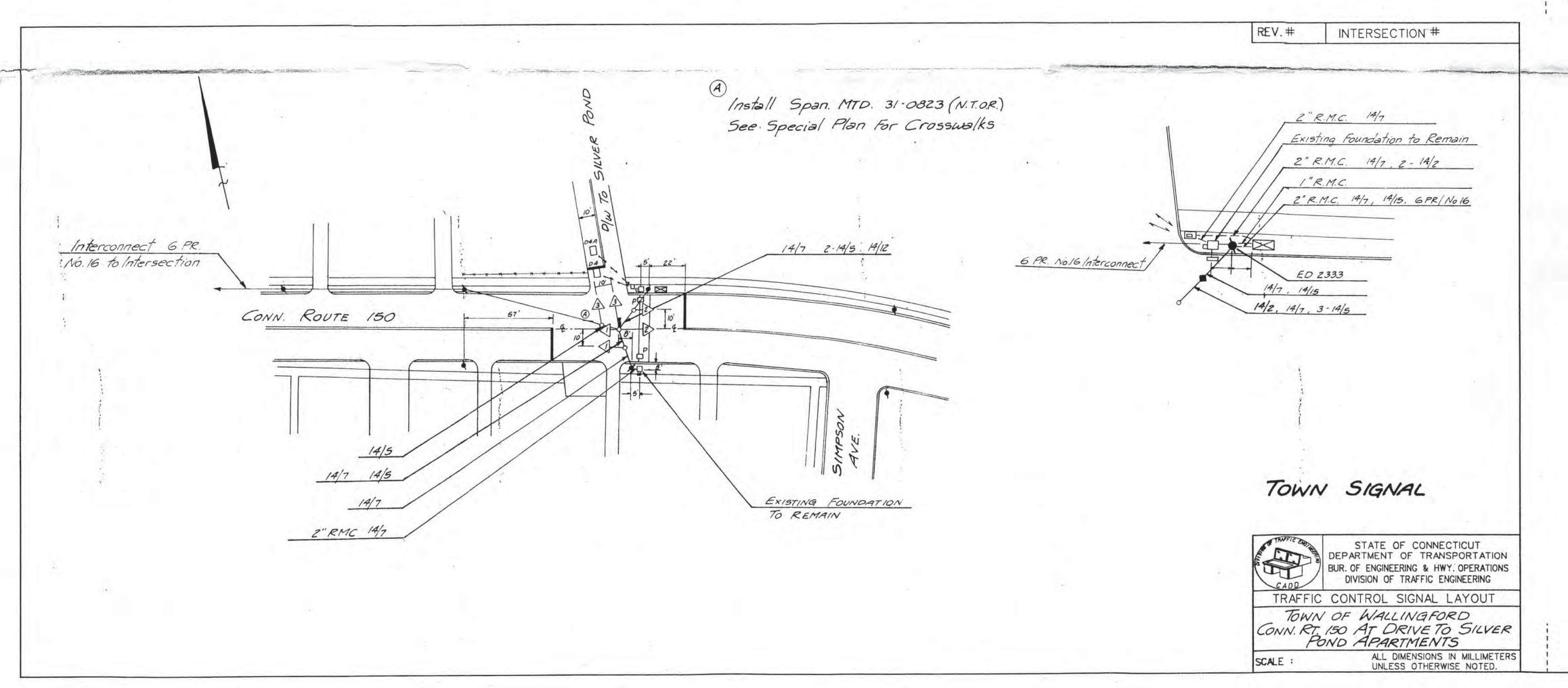
ADD PED. TIMING TO PHASE 4.

(UF









- 1. All traffic signal equipment is new except as noted
- 2. Remove all abandoned traffic signal equipment Including but not limited to conduit, cable, and span wire.
- 3. Unless otherwise directed, all traffic signal equipment being removed is to be returned to the Town of Wallingford.
- 4. Existing pedestal foundation to be reused.
- 5. Install four phase controller cabinet on new type I foundation.
- 6. Controller to include model 3821 Eight Phase Timer, and Model IZELRA Conflict Monitor manufactured by Peek Traffic, Tallahasse, Florida. Cabinet to include all necessary equipment for closed loop operation
- necessary equipment for closed loop operation
 7. Install loop detectors 2' off edge of drive and centerline
 of drive and 8' apart. Rear loop will serve as
 system and local detector and will be wired separately
 to its own amplifier.
- 8. Interconnect cable will be Installed continuously to the controller at Rt. 150 and Elm Street. Prior to bidding, the contractor shall contact Officer Rick Doll, Wallingford Traffic, and the utility Co. for Information and costs for overhead attachments
- 9. A 60 Amp. Weatherproof Cutler Hammer Disconnect shall be installed Il' from ground level on Existing Wood Span Pole.
- 10. Audible Pedestrian Signal Shall be Installed to most current Conn. DOT Spec.
- 11. All work shall be done in accordance with Conn. DOT form 814A unless otherwise noted.
- 12. The Contractor shall notify "Call Before You Dig" prior to any construction

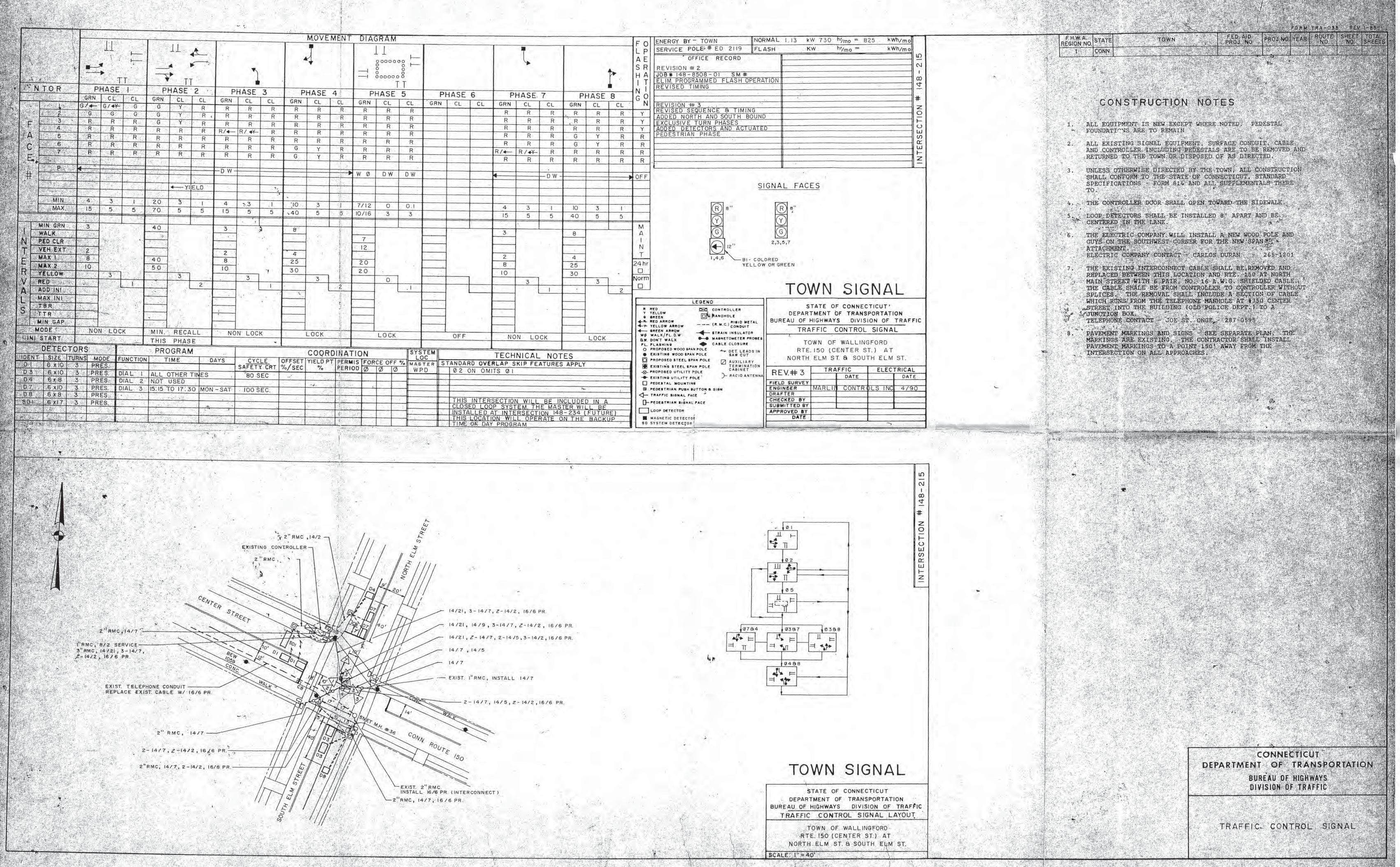
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

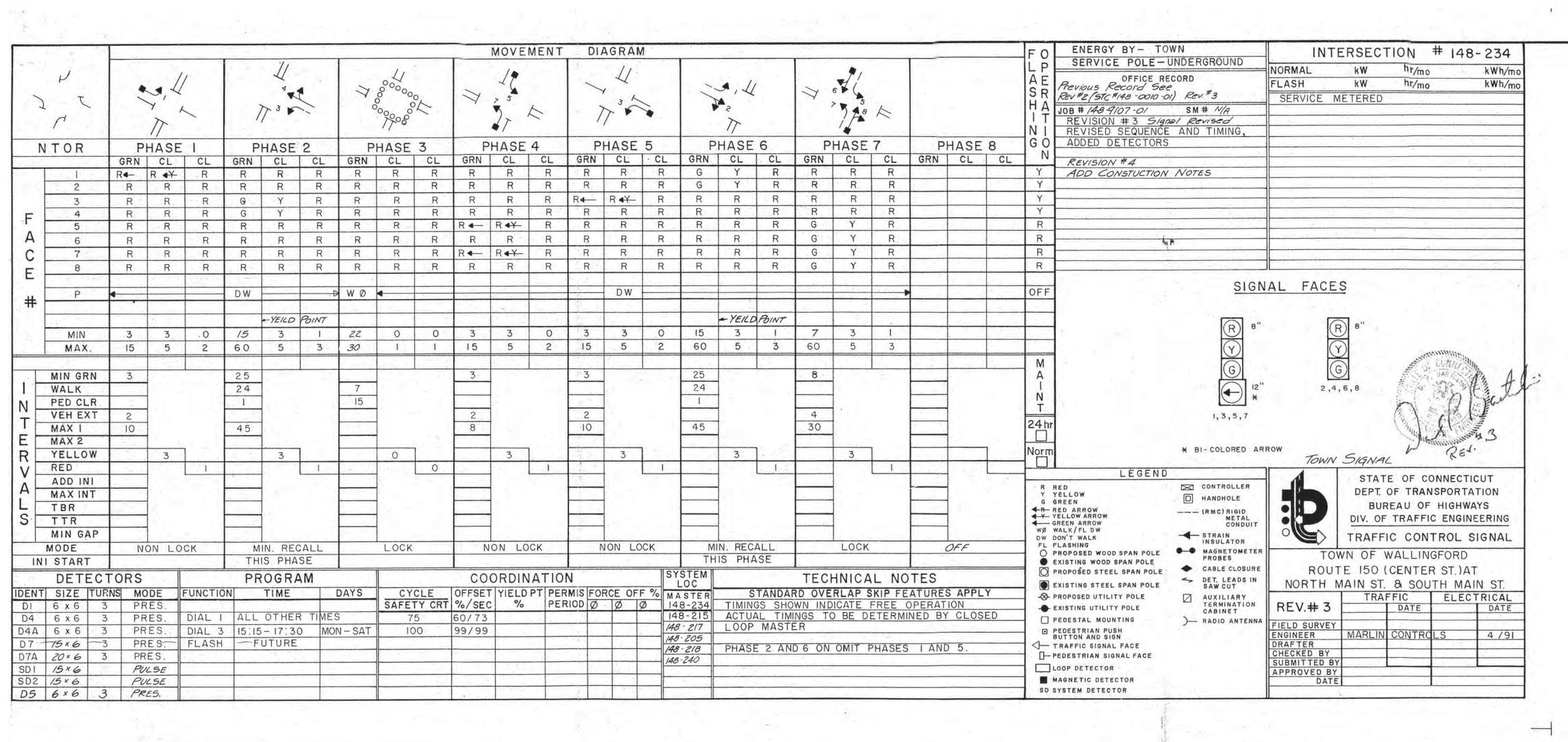
TRAFFIC CONTROL SIGNAL

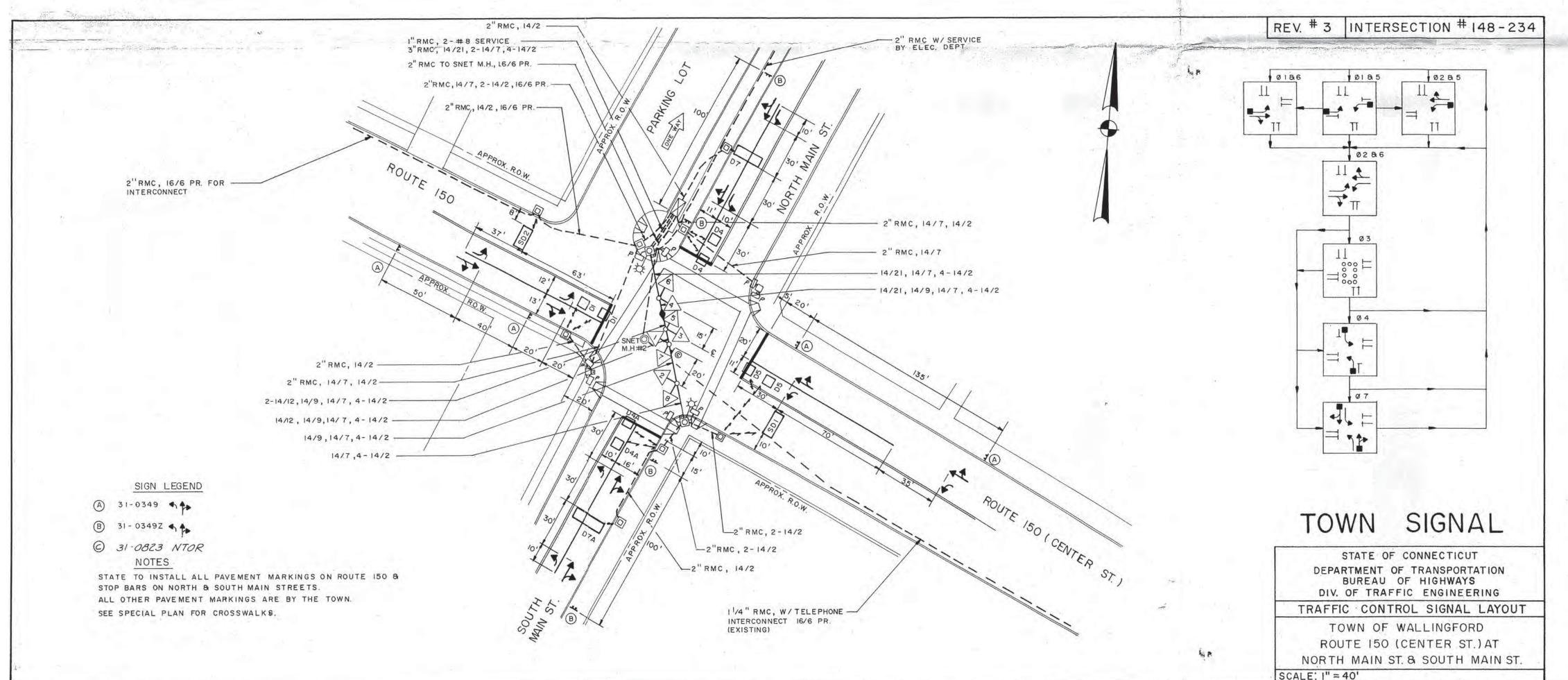
F.H.W.A. STATE TOWN FED. AID PROJ. NO YEAR ROUTE SHEET NO. 1 CONN.

V-223

R.D.







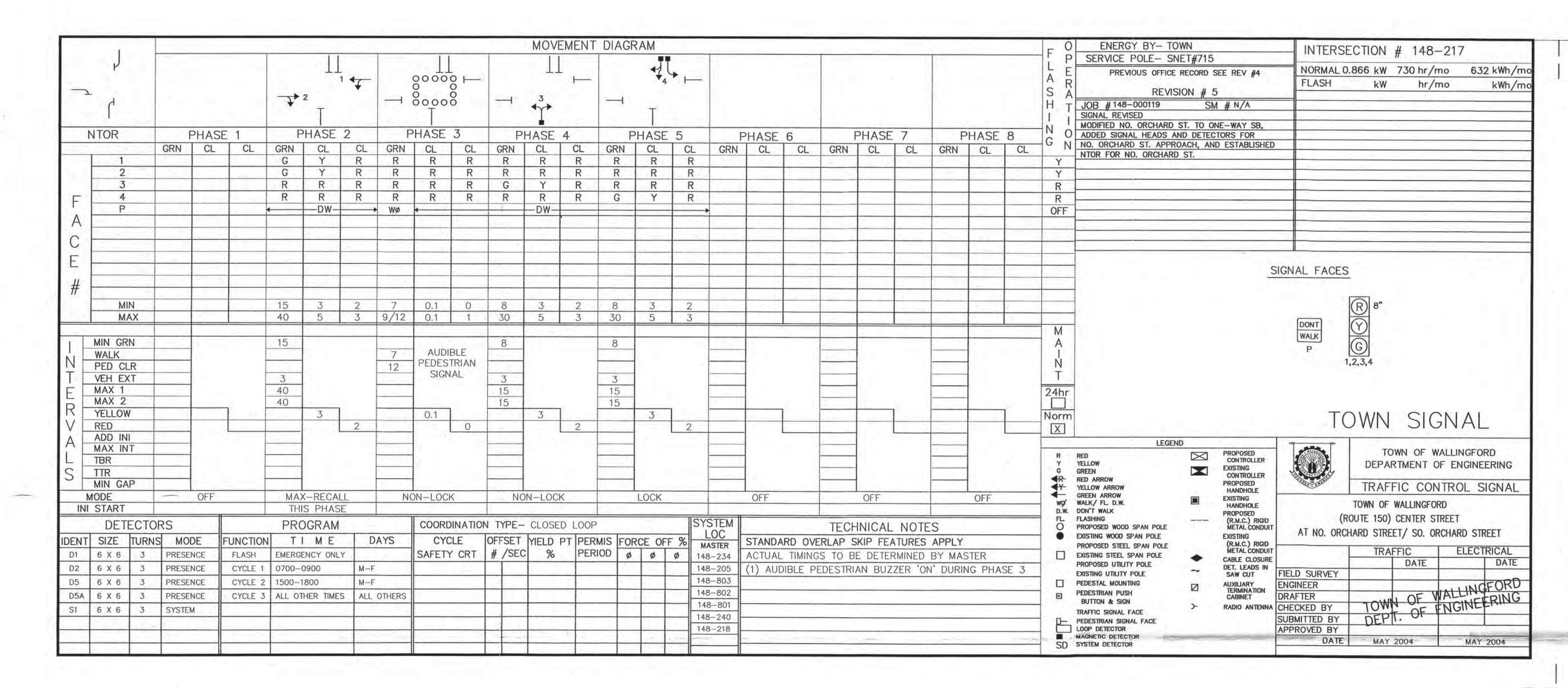
CONSTRUCTION NOTES

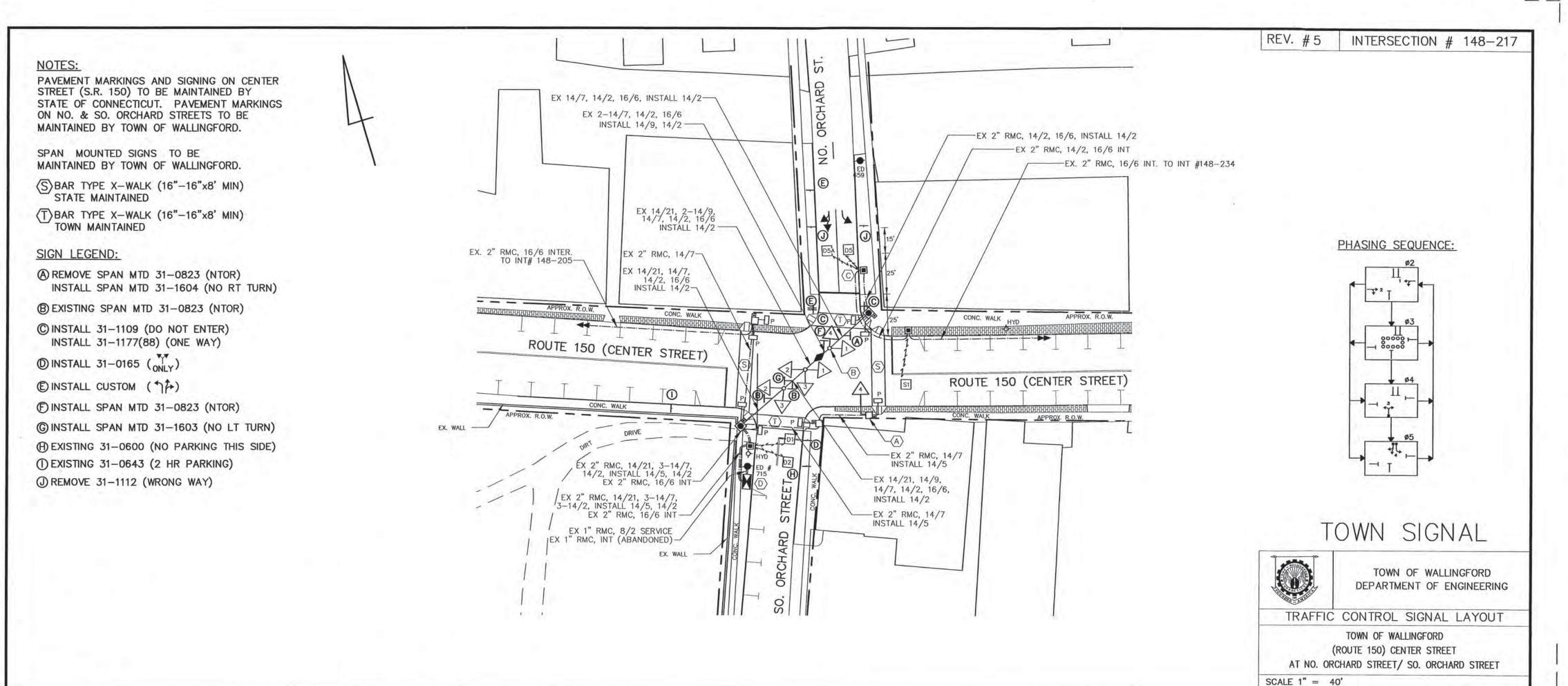
- 1. ALL EQUIPMENT IS NEW.
- 2. ALL EXISTING SIGNAL EQUIPMENT, SURFACE CONDUIT, CABLE AND CONTROLLER INCLUDING PEDESTALS AND SPAN POLES ARE TO BE REMOVED AND RETURNED TO THE TOWN OR DISPOSED OF AS DIRECTED.
- 3. UNLESS OTHERWISE DIRECTED BY THE TOWN, ALL CONSTRUCTION SHALL CONFORM TO THE STATE OF CONNECTICUT, STANDARD SPECIFICATIONS FORM 814 AND ALL SUPPLEMENTALS THERETO.
- 4. THE CONTROLLER DOOR SHALL OPEN TO THE FIELD SIDE, OR A.O.B.E.
- 5. LOOP DETECTORS SHALL BE INSTALLED 8' APART AND 3' FROM THE EDGE OF THE ROAD UNLESS OTHERWISE NOTED.
- PAVEMENT MARKING AND SIGNS THE CONTRACTOR SHALL INSTALL PAVEMENT MARKINGS TO A POINT 150' AWAY FROM THE INTERSECTION ON ALL APPROACHES OR A.O.B.E.
- THE COMBINATION STEEL SPAN POLES SHALL BE SIZE 0 GAUGE 13.0" X 32'-0" OR COMPARABLE FOR A MINIMUM LOAD AT YIELD OF 6700 LBS. A STANDARD 6 FOOT LONG BRACKET WILL BE FURNISHED FOR THE LUMINAIRE. THE PORTION OF THE BRACKET UPON WHICH THE LUMINAIRE IS TO BE MOUNTED, SHALL BE SIZED AS REQUIRED BY THE TOWN'S ELECTRIC DIVISION TO ACCEPT THEIR LUMINAIRE.
- 8 DETECTORS DI, D4, D5, + D4A SHALL BE INSTALLED Z' IN FRONT OF STOP BARS.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL

V-235





F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTA
1	CONN.	WALLINGFORD		-	2004	150		

CONSTRUCTION NOTES (REV #5)

ALL TRAFFIC SIGNAL EQUIPMENT IS EXISTING, EXCEPT AS NOTED.

EXISTING CONDITIONS ARE BASED ON COMPILATION OF BEST AVAILABLE MAPPING AND SHOULD BE VERIFIED IN THE FIELD.

INSTALL LOOP DETECTORS 3' OFF EDGE OF ROAD AND 8' APART UNLESS OTHERWISE SPECIFIED.

SEGMENTED LOOPS TO BE INSTALLED IN SERIES.

DETECTORS "D5" AND "D5A" ARE NEW.

SIGNAL HEAD #4 IS NEW, ALL OTHERS ARE EXISTING.

NOTIFY THE UTILITY CONTACTS LISTED BELOW AT LEAST 72 HOURS PRIOR TO CONDUCTING WORK.

NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455 72 HOURS PRIOR.

ALL PAVEMENT MARKINGS ARE EXISTING EXCEPT ON NORTH ORCHARD STREET WHICH ARE TO BE NEW. CONTRACTOR SHALL REMOVE PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED.

- REPLACE 8' PEDESTAL WITH NEW 10' PEDESTAL ON EXISTING FOUNDATION, AND INSTALL NEW 8" 3-SECTION SIGNAL FACE. RELOCATE EXISTING PEDESTRIAN SIGNAL FACES, PUSHBUTTON AND SIGN TO NEW PEDESTAL.
- B CONVERT EXISTING 1-WAY TRAFFIC SIGNAL HEAD TO 2-WAY. INSTALL NEW 14/9 CONDUCTOR BACK TO CABLE CLOSURE. USE EXISTING 14/21 CONDUCTOR BACK TO CABINET.
- © EXTEND NEW LOOP LEADS INTO EXISTING HAND HOLE AND SPLICE TO NEW 14/2 CONDUCTOR.
- MODIFY EXISTING SOLID STATE 8-PHASE CONTROLLER (TRANSYT MODEL 3000) FOR NEW PHASE (PHASE 5) AND INSTALL NEW LOOP VEHICLE DETECTOR.

UTILITY CONTACTS

Ms. Suzanne P. Paddock Surpervisor — O.N.E Southern New England Telephone 1441 North Colony Road Meriden, CT. 06450 (203) 238-5620

Mr. Rob Baltramaitis, P.E. Assistant Town Engineer 29 Town Farm Road Wallingford, CT. 06492 (203) 294—2035

Mr. Leo Luciano

Yankee Gas Services

Mr. Art Dutra Wallingford Electric 100 John Street Wallingford, CT. 06492 (203) 294—2271

t 47 Eagle Street
06492 Waterbury, CT. 06708
1 (203) 596-3104

Mr. Dean P. Muratori Construction Manager AT&T Cable Services 222 New Park Drive Berlin, CT. 06037 (860) 505-6248 Mr. Vincent Mascia
Town Of Wallingford Water & Sewer Dept.
377 South Cherry Street
P.O. Box 725
Wallingford, CT. 06492
(203) 949-2672

TOWN SIGNAL



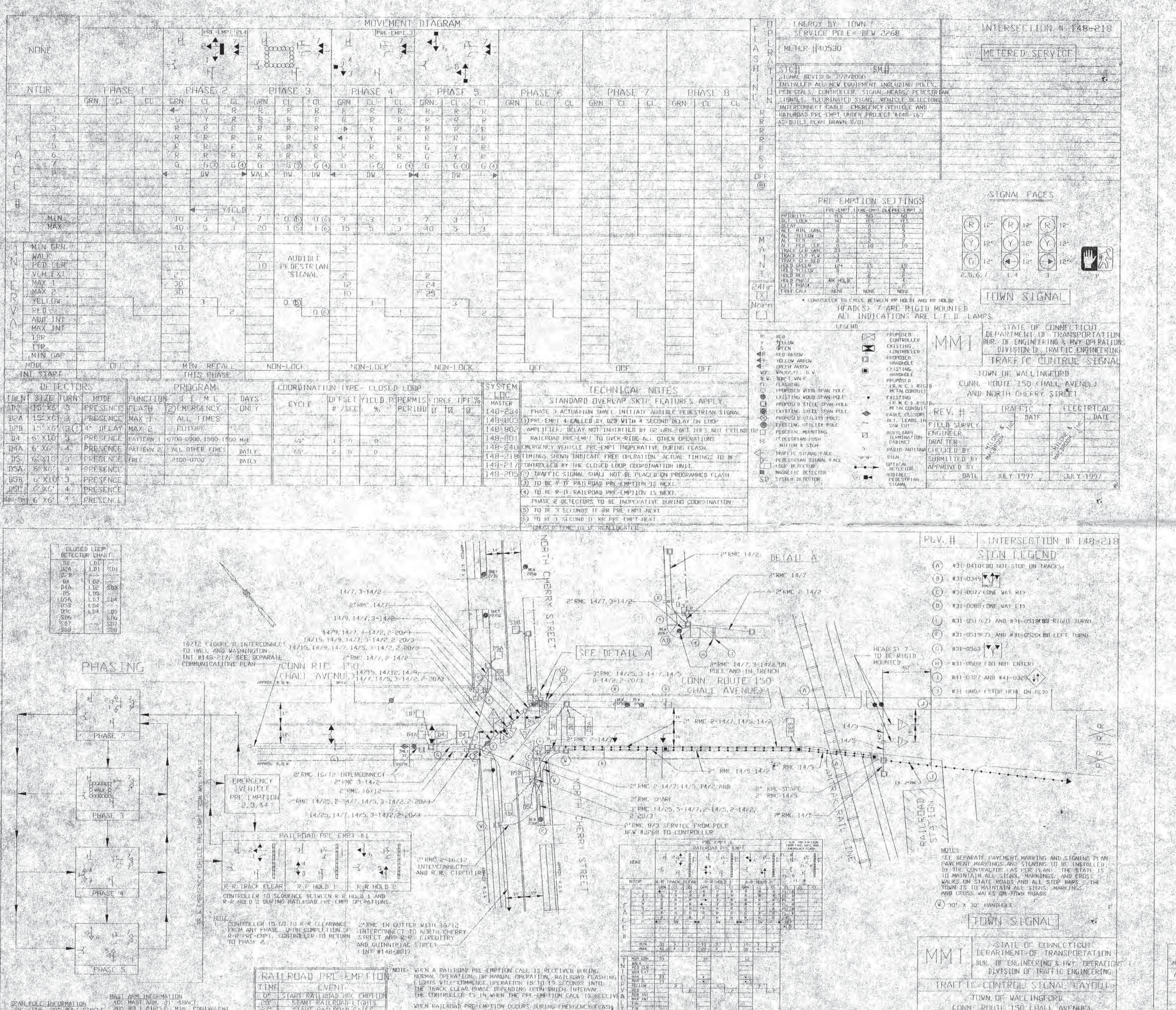
TOWN OF WALLINGFORD
DEPARTMENT OF ENGINEERING

TRAFFIC CONTROL SIGNAL

TOWN OF WALLINGFORD

(ROUTE 150) CENTER STREET

AT NO. ORCHARD STREET/ SO. ORCHARD STREET



DR FAIL-SAFE FEASHING OFFRATION, PATERDAD FLASHING FOR STORY

PRE EMPTION CALL IS RECEIVED.

DN-BMIT UNG-BMIT

* INTERVAL TO BE DETERMINED BY PRESENCE OF TRAIN

IRCLE 20 BULL GIRLLE

5, 100 LBS LOAD AT TILLD END EDADINGS - 250 LBS AND

MIN, EQUIVALENT

RIGIO MUUNTED TRAFFI

STATE OF CONNECTIONS - DEPT OF TRANSPORTATION STORE NO FIRE TO FEV. - AUWN -

STPN-2565 (2)1487163 1997 1150

RATERDADIPRE EMPTEDNINGTES

RATERUAD PRE EMPTION SHALL TAKE PRECEDENCE DVER ALL DINER OPERATIO

WALLING ORD

RATERDAD PRE-EMPTION KNORMAL APPERATIONS

- TRAIN ENLERS TRACK CIRCUIT R R. PRUVIDES IMMEDIATE PRE-EMPTION CIRCUIT TO THE TRAFFILM SIGNAL CONTROLLER CABINET.
- 2 THE TRAFFIC SIGNAL CONTROLLER IMMEDIATELY ADVANCES THE SEQUENCE TO THE TRACK CLEARANCE PHASE VIA THE PROPER YELLOW AND RED CLEARANCE INTERVALS. IF PEDESTRIAN PHASE IS IN OPERATION PHASE WILL BE IMMEDIATELY TERMINATED
- THE TRACK CLEARANCE INTERVAL WILL TERMINATE AND THE TRAFFIC GENTROLLER WILL HOLD SAND SEQUENCE BETWEEN PRE-EMPT HILLD #1 AND PRE-EMPT HOLD #2.
- THE RAILROAD FLASHING LIGHTS WILL COMMENCE OPERATION 15 TO 19 SECONDS INTO THE PRACE CLEAR PHASE DEPENDING UPON WHAT INTERVAL TRAFFIC CONTROLLER IS IN WHEN THE PRESEMPTION CALL IS RECEIVED, STANDARD R.R. TIMING FOR BELLS, LIGHTS, AND GAILS WILL COMMENCE A MINIMUM OF 29 SECTIONS PRIOR TO THE TRAIN ENTERING THE CROSSING.
- WHEN THE TRAIN HAS LET FITHE CROSSING AND THE TRACK CIRCUIT, THE RAILREAD DEVICES WILL DEACTIVATE AND THE TRAFFIC CONTROL SIGNAL SHALL RETURN TO NORMAL DEERATION, PHASE &

RAILRUAD PRE-EMPTION (PAIL SAFE FLASHING DERATION)

- TRAIN ENTERS TRACK CIRCUIT R R PROVIDES IMMEDIATE PROJECTION CIRCUIT III THE TRACK SIGNAL CONTROLLER CABINET
- THE FLASHING OPERATION IMMEDIATELY CHANGES TO SOLID RED ON FACE 7. AND REMAINS FLASHEN RED IN ALL DITHER INDICATIONS
- THE RAILROAD FLASHING LIGHTS WILL COMMENCE 20 SECONDS AFTER THE RECEIPT OF THE PRESEMB CALL STANDARD RER. TIMING FOR BELLS, LIGHTS, AND GATES WILL COMMENCE A MINIMUM DES SECONDS PRIOR TELEPHE TRAIN ENTERING THE CROSSING.
- WHEN THE TRAIN HAS LEFT THE CRUSSING AND THE TRACK CIRCUIT, THE TRACKLE TONTROL SIGN SHALE REVERT TO FLASHING RED ON ALL SIGNAL FACES AND THE PAILRDAD DEVICES SHALE DEADER

JECHNICAL NOVES TONTINULD

- CONTROLLER SHALL IMMEDIATELY ADVANCE OUT OF ANY GREEN, INCLUDING MIN GREEN, INTO ELEAPANCE INTERVALS GOING TO PRESEMPTION, AND THEN GO DIRECTLY TO RAILROAD TRACK CLEAR PHASE DURING RAILFOAD PRE-EMPTION
- WHEN RAILROAD PRE-EMPTION OCCURS DURING THE CLEARANCE INTERVAL OF ANY PHASE TH CONTROLLER TO DROP NEXT PHASE CALL, FINISH TIMING THE CLEARANCE INTERVALS GOING TO PRE-EMPTION, SAND THEN GO DIRECTLY TO RAILROAD TRACK CLEAR PHASE.
- PEDESTRIAN TIMING ID IMMEDIATELY ADVANCE BUT DE THE WALK AND PED CLEARANCE INTERVAL IN THE CLEARANCE ENTERVAL TIMINGS GOING TO PRE-EMPTION, THEN GO IMMEDIATELY TOURAILEDAD TRACK CLEAR PHASE.
- POLICE BOX MANUAL SHALL BE ABLE TO BE PRE-EMPTED BY RAIL ROAD CTROURT. THE ROLFCE BOX TANDAL TO THIS RELATION OF THE A PROPERTY OF THE A PROPERTY OF THE A PROPERTY OF THE PROPERTY UNTIL THE CONTROLLER LEAVES THE RAFLEDAD BOILD PHASE AND RETURNS TO PHASE & DREEN
- ANY CHANGE IN THE CLEARANCE INTERVALS DENGTED ON THIS PLAN MAY REQUIRE A MUDIFICATION OF THE RAILROAD TRACK CIRCULT
- THE CONTROLLER SHALL BE A "MENU DRIVEN" TYPE WITH INTERNAL RATERDAD PRESEMPTION. (7) RAILROAD FLASHING LIGHTS TO START 20 SECONDS INTO THIS INTERVAL
- TRAFFIC SIGNAL TO BE IMMEDIATELY FURCED OUT OF CUITSED LOOP COURDINATED DECRANDA UPON RECEIPT OF RAIL ROAD PRE-EMPTION CALL.
- (8) FLASHING OPERATION TO REVERT TO RR PRESEMPTION FROM FAIL-SAFE FLASH OPEN RECEIPT TO RR PRE EMPTILIN CALL

GENERAL PRESEMPTION NOTES

- 1 RAIL RUAD PRESEMBT CIPERATIONS SHALL BE MAINTAINED AT ALL TIMES DURING BUTH ACTIVE AND NON CONSTRUCTION TIME PERIODS.
- IF FOR ANY REASON NORMAL RAILROAD PRE-EMPT OPERATIONS ARE INTERRUPTED. THE CONTRACTOR SHALL LAMEDIATELY NOTIFY THE WALLINGFORD POLICE DEPARTMENT, THE CONNECTIONS DEPARTMENT DE TRANSPORTATION AND AMTRAK.
- . ANY MUDIFIGATIONS TO THESE FIMINGS AND RAILROAD PRE-EMPTION OPERATIONS MUST BE APPROVE BY THE TOWN, STATE AND AMTRAK.
- A SANY WORK ON RAILREAD PROPERTY SHALL BE APPROVED BY AND AUTHORIZED BY AMTRAK

EMERGENCY VEHICLE PRE-EMPTION MOTES

THE CIPTICAL DELECTOR(S) SHALL BE MOUNTED MID-SPAN; IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS. A SEPARATE 20/3 CABLE (FOR EACH OPTICAL DETECTOR) SHALL CONSPILICED) DIRECTLY THE THE CONTRILLER CABINET

1	ULILITYZPROJECT CONTACIS
S	NET BOB BOUFFARDE (800)748-1693
10	T&I: RÜN TARINI: (203)269-2565
W	ALLINGFURD ELECTRIC ART DUIRA 0803)265-(
	MIRAN UDE HOFBAUER (215) 349-1036
T	FI CMBLE ADAM BURR : (203)483-2300
i r	ĐƯN ẾNG ENGER JOHN R. THOMPSON (2000271-17)

DWNERS NAME TOWN DE WALLINGFIEL

SEC SHEET 38 FUR CONSTRUCTION NUTES. REVISIONS NU DATE DESCRIPTION CRM REVISED PEDESTRIAN INDICA WHEN PRESENT FROM FLASH

CONN. ROUTE 150 CHALL AVENUES.

DATE: JULY 1997

AND MORTH CHERRY STREET

DEPARTMENT OF TRANSPORTATION BUREAU DE ENGINEERING & HIGHWAY EPERATIENS DIVISION OF TRAFFIC ENGINEERING

STATE OF CUNNECTIONS

Rt. 150 (Hall Ave.) & No. Cherry St.

TRAFFIC CONTROL \$16NA

- ALL TRAFFIC CONTROL EQUIPMENT UNLESS OTHERVISE NOTED, IS NEW. ALL MATERIALS AND EQUIPMENT SHALL CONFORM TO THE FORM 814A AND AS AMENDED. ALL NEW TRAFFIC CONTROL EQUIPMENT SHALL BE FIELD LOCATED AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- ALL CABLING SHALL BE NEW AND INSTALLED WITHOUT SPLICES.
- SPAN WIRE SHALL BE 3/8',120 DIA. EXTRA STRENGTH 15,400 LBS. MINIMUM BREAKING STRENGTH.
- X TYPE 3 PEDESTRIAN SIDEWALK RAMPS.

F.H.W.A. STATE

- CONTRACTOR SHALL CONTACT CALL BEFORE YOU DIG (1-900-927-4455) PRIOR TO ANY EXCAVATION.
- ALL WORK TO BE COORDINATED WITH THE TOWN OF WALLINGFORD POLICE DEPARTMENT, CONTACT DFFICER R. A. DOLL 294-2250.
- THE CONTRACTOR WILL SCHEDULE HIS CONSTRUCTION WORK SO THAT POSITIVE TRAFFIC CONTROL (STOP SIGNS, TEMPORARY SIGNALS, ETC.) ARE IN PLACE AND OPERATIONAL AT ALL TIMES.
- THE CONTRACTOR SHALL SUPPLY, INSTALL AND MAKE FULLY OPERATIONAL THE FOLLOWING:
- (A) 28' (8.53 METERS) STEEL SPAN POLE ON STANDARD SPAN POLE FOUNDATION WITH ONE-WAY THREE SECTION VEHICLE SIGNAL ADA APPROVED PUSH BUTTON AND SIGN ASSEMBLY AND 2 DNE-WAY.
- (B) INSTALL TOWN APPROVED (STANDARD) FULL ACTUATED 8 PHASE CONTROLLER ON NEW TYPE IV CONTROLLER FOUNDATION. CONTROLLER SHALL BE EQUIPPED WITH INTERNAL EMERGENCY VEHICLE PRE-EMPT CAPABILITY. THE CONTROLLER SHALL BE EQUIPPED WITH ALL NECESSARY AND YOR REQUIRED COMPONENTS AND INTERNAL COMMUNICATION MODULES FOR INCLUSION IN AND FULL COMPATIBILITY WITH THE TOWN'S EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM. THE CONTROLLE TYPE IV CABINET SHALL BE EQUIPPED WITH A WALLINGFORD ELECTRIC DIVISION APPROVED METER SUCKET, AND A WEATHERPROOF DISCONNECT.
- (C) INSTALL 8'-0' (2.438 METERS) ALUMINUM PEDESTAL DN EXISTING PEDESTAL FOUNDATION, VITH ADA APPROVED PUSH BUTTON AND SIGN ASSEMBLY, AND TWO-WAY PEDESTRIAN SIGNAL.
- (D) INSTALL TYPE II CONCRETE HANDHOLE, (TYPICALLY 1'-0' (0.305 METERS) FROM NEW CURB, UNLESS OTHERWISE NOTED.
- INSTALL TOWN/STATE APPROVED AUDIBLE PEDESTRIAN SIGNAL WITH ADJUSTABLE RHEDSTAT IN CONTROLLER CABINET.
- E EXISTING GUY FOR UTILITY POLE SNET #28 TO REMAIN.
- (W) INSTALL 30"X30" CONCRETE HANDHOLE, ALL OTHERS TO BE TYPE II.
- THE CONTRACTOR SHALL REPLACE THE ENTIRE SECTION OF SIDEWALK DAMAGED DUE TO INSTALLATION OF TRAFFIC SIGNAL EQUIPMENT.
- ELECTRICAL SERVICE TO THE CONTROLLER SHALL BE COORDINATED WITH THE WALLINGFORD ELECTRICAL DIVISION. THE CONTRACTOR SHALL PAY ALL FEES AND COSTS FOR OBTAINING, CONTACT MR, ART DUTRA AT WALLINGFORD ELECTRIC DIVISION (203) 265-0308 TO COORDINATE.
- THE CONTRACTOR SHALL COORDINATE WITH AND PAY ANY APPLICABLE FEES ASSOCIATED WITH THE REATTACHMENT OF THE NEW SPAN WIRE (TO SNET POLE #28) TO THE SOUTHERN NEW ENGLAND TELEPHONE COMPANY.
- 12. THE OPTICON RECEIVER(S) SHALL BE MOUNTED MID-SPAN IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, AND SHALL BE APPROVED BY AN AUTHORIZED REPRESENTATIVE OF 3-M PRIOR TO INSTALLATION OR TURN-ONLA SEPARATE 20/3 CABLE (FOR EACH OPTICAL DETECTION) SHALL BE INSTALLED (UNSPLICED) DIRECTLY TO THE CONTROLLER CABINET.
- 13. ALL SIGNALS SHALL BE HUNG SO THAT A MINIMUM VERTICAL CLEARANCE OF 16 FEET (4.88 METERS) IS MAINTAINED BETWEEN THE FINAL ROADWAY SURFACE AND THE BOTTOM OF THE SIGNALS.
- 14. INSTALL LOOP DETECTORS IN EXISTING PAVEMENT, CENTERED IN LANE AND 8' (2.438 METERS)
 APART UNLESS OTHERWISE NOTED. SEGMENTED LOOPS TO BE SPLICED IN SERIES.
- ALL EXISTING TRAFFIC CONTROL EQUIPMENT THAT IS NOT TO BE REUSED SHALL BE CAREFULLY REMOVED AND EQUIPMENT NOTED IN THE SPECIAL PROVISIONS SHALL BE DELIVERED TO THE TOWN'S TRAFFIC MAINTENANCE FACILITY ON WASHINGTON STREET OR OTHER LOCATION AS MAY BE DIRECTED
- 16. INSTALL TRAFFIC SIGNAL CABLE CLOSURE, DN SPAN, 5 FEET± FROM CURBLINE.
- 17. INSTALL 2' RMC STAND-OFF ON UTILITY POLES BEV #45, SNET #28 AND SNET #29. INSTALL POLE MOUNTED SERVICE DISCONNECT 10 FEET ABOVE THE GROUND ON POLE BEV#45.
- CONTACT NOTED UTILITY COMPANIES A MINIMUM OF TWO (2) WEEKS PRIOR TO CONSTRUCTION.
- 19. ALL TRAFFIC SIGNAL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH CONNDUT'S AND WALLINGFORD'S STANDARDS.
- THE TRAFFIC SIGNAL CONTRACTOR SHALL COORDINATE THE PLACEMENT OF ALL NEW TRAFFIC CONTROL APPURTENANCES WITH THE TOWN, ADJACENT PRIVATE PROPERTY OWNERS AND THE SERVING UTILITY COMPANIES.
- 21. ATTACH SPANVIRE TO UTILITY POLE SNET #28 AT APPROXIMATELY 24.2 FEET ABOVE THE GROUND.
- 22. ANCHOR BOLTS FOR POLE FOUNDATIONS SHALL BE SET SQUARE TO THE SPAN POLE SUCH THAT TWO BOLTS ARE IN TENSION AND TWO ARE IN COMPRESSION.

UTILITY/PROJECT CONTACTS TOWN / POLICE: R. A. DOLL: 294-2250 SNET: BOB BOUFFARD: (800)748-1693 AT&T: RON TARINI: (203)269-2565 WALLINGFORD ELECTRIC: ART DUTRA: (203)265-0308 TCI CABLE: ADAM BURR: (203)483-2300 DESIGNER: M.M.L. JOHN P. THOMPSON (203)271-1773

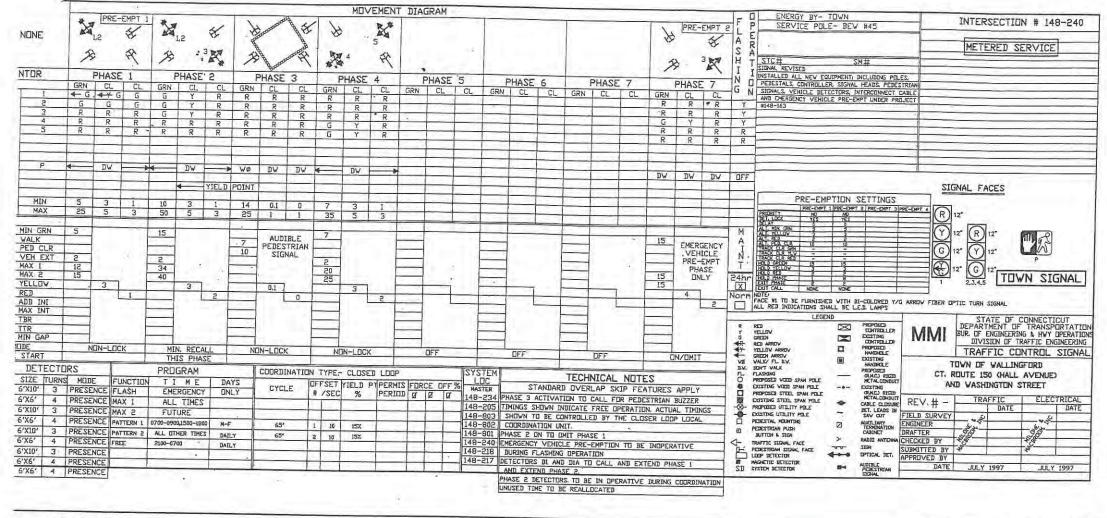
> STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING & HIGHWAY OPERATIONS DIVISION OF TRAFFIC ENGINEERING

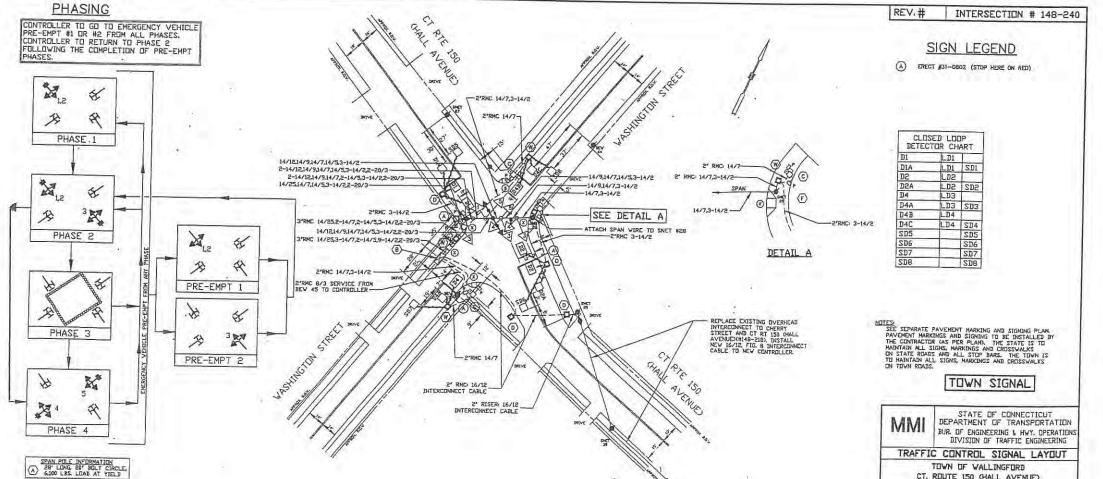
DWNERS NAME TOWN OF WALLINGFORD

CT. ROUTE 150 CHALL AVENUE

AND WASHINGTON STREET

TRAFFIC CONTROL SIGNAL





								MOVEN	MENT DI	AGRAM									ENERGY BY- TOWN	ME	ETERED SEI	RVICE	NITEDOS AS THE	0 62
QNE 			1 201	✓ FLR FLY 4 FLY			430 H	T	FLR FLY								204	-		Norm SE	ERVICE PO	E- ED5674 STC * N/A	INTERSECTION # 14 OFFICE RECORD REVISION *3 SM* N/A	
OR	Ph	HASE 1	PH	IASE 2	PHAS	SF 3	PH	IASE 4		PHASE	- 5	РΗΔ	SE 6		PHASE 7		PHASI	ΕQ	(R) 12"	(R) 12"		UPDATED TR	AFFIC SIGNAL EQUIPMENT AT MAS EMENT MARKINGS	ONIC C
FLASH		CL CL	GRN	CL CL	GRN CL		1		CL GF		CL	GRN C			1	CL GF	RN CL			To the second	R 8"	REPLACED AL	L LOOP DETECTORS	
Y			G	YR			R	R	R					Ottiv			R R	R			$ \Upsilon $	Signal	Revised 1-21-99	
Y R			G	Y R R R			R	R	R		1						G G	G	G 1,2,3	EL) 8"	(G)			
Y			FLY	FLY FLY					FLY								R R	R	1,2,3	4	5			
R			FLR	FLR FLR	1				FLR	Silver.			21/11				G Y	R	FACE 5 HAS TUNN	EL VISORS				
										3 150									FACES 1,2,3 TO F		PS			
																			EMERGEN PRE-EMP	Y VEHICLE SETTINGS	1			
												1 = 2 () = -							7	PRE-EMPT	1			
			60	3 0.5 5 3			5		0.5		1 de la						-0 7		PRIORITY DET. LOCK	NO YES				-
GRN.			15	J J			35 5	5	3										DELAY ALT. MIN. GRN.	10	=			-
K							0									17		_	ALT. MIN. YELL ALT. RED	DW PARENT				
CLR			~											-4/22					ALT, PED, CLR.	NO		F		
EXT 1			40				20												HOLD GREEN HOLD YELLOW HOLD RED	3.0				
2			40				20								100	1/1			HOLD RED HOLD PHASE	2.0				
LOW			9 = 27	3				3	0 10] = = //								EXIT PHASE EXIT CALL	2				
TINI				2				770	2			\	7/16-	il Ews			- 4.			NONE	27.7			-
X INIT				100					-									1	PLAN SEALED FOR	REVISION *3	ONLY			
			46.4																TOWN	SICK	IAI	,		
GAP												5 - 1							10001	2101				
GAP		OFF	MIN	RECALL	OF	F	NON	N-LOCK									ONLYON	WIT .	LE	GEND			STATE OF CONNECTICE	T
RT				S PHASE	- 51		1101	LOCK	A Paris						7:		ON/ON	IVII I	R RED Y YELLOW		PROPOSED CONTROLLER	RI	STATE OF CONNECTICU DEPARTMENT OF TRANSPOR IR. OF ENGINEERING & HWY OPE	TATIO
ETECTO	DRS			PROGRAM	C	OORDINATI	ON TYPE-	NONE		191	PF	RMIS SYSTI	EM		TECHNICA	I NOT	FS		G GREEN RED ARROW		EXISTING CONTROLLER		DIVISION OF TRAFFIC ENGINEE	KING
E (WXL)	TURNS	MODE	FUNCTION	TIME	DAYS	x = 1 / = = -	PHASE	SPLITS	SEC/	% OF	SET PE	RIOD LOC MASTE	R S		OVERLAP SI	FR. 4		PPI Y	Y YELLOW ARROW GREEN ARROW		PROPOSED HANDHOLE		RAFFIC CONTROL SIG	NAL
10'X6'	3	PRESENCE	FLASH	FUTURE	CY	CLE 01	02 03	04 05					-		TO BE IN			1 - 1	WØ WALK/ FL. D.W. D.W. DON'T WALK		EXISTING HANDHOLE	TO	WN OF WALLINGFORD	
12'X6'		PRESENCE	MAX 1	ALL OTHER TIME	S DAILY									-	SHING OPER				FL. FLASHING O PROPOSED WOOD SPAN	-	PROPOSÉD (R.M.C.) RIGID METAL CONDUIT		150 (HALL AVENUE) A	
6'X6'	3	PRESENCE	MAX 2	FUTURE	W/ WC				1										EXISTING WOOD SPAN PO	LE	EXISTING		USE AND MASONIC H	
				TOTORL						-									PROPOSED STEEL SPAN EXISTING STEEL SPAN P	LE 📣	(R.M.C.) RIGID METAL CONDUIT	NAME THE		100
																			PROPOSED UTILITY POLE EXISTING UTILITY POLE	1	CABLE CLOSURE DET. LEADS IN SAW CUT	REV # 3	TRAFFIC ELECT	
+									MAN I										PEDESTAL MOUNTING		AUXILIARY TERMINATION	ENGINEER	DATE	DAT
					103		= 1												PEDESTRIAN PUSH BUTTON & SIGN		CABINET	DRAFTER	11111	Le
	-					11													TRAFFIC SIGNAL FACE PEDESTRIAN SIGNAL FACE		AUXILIARY EQUIPMENT CABINET	CHECKED BY SUBMITTED BY		
								-11											LOOP DETECTOR MAGNETIC DETECTOR		AUDIBLE PEDESTRIAN	APPROVED BY	T LCB.1998	
					PINE				1.38				_						SD SYSTEM DETECTOR		SIGNAL	DATE		

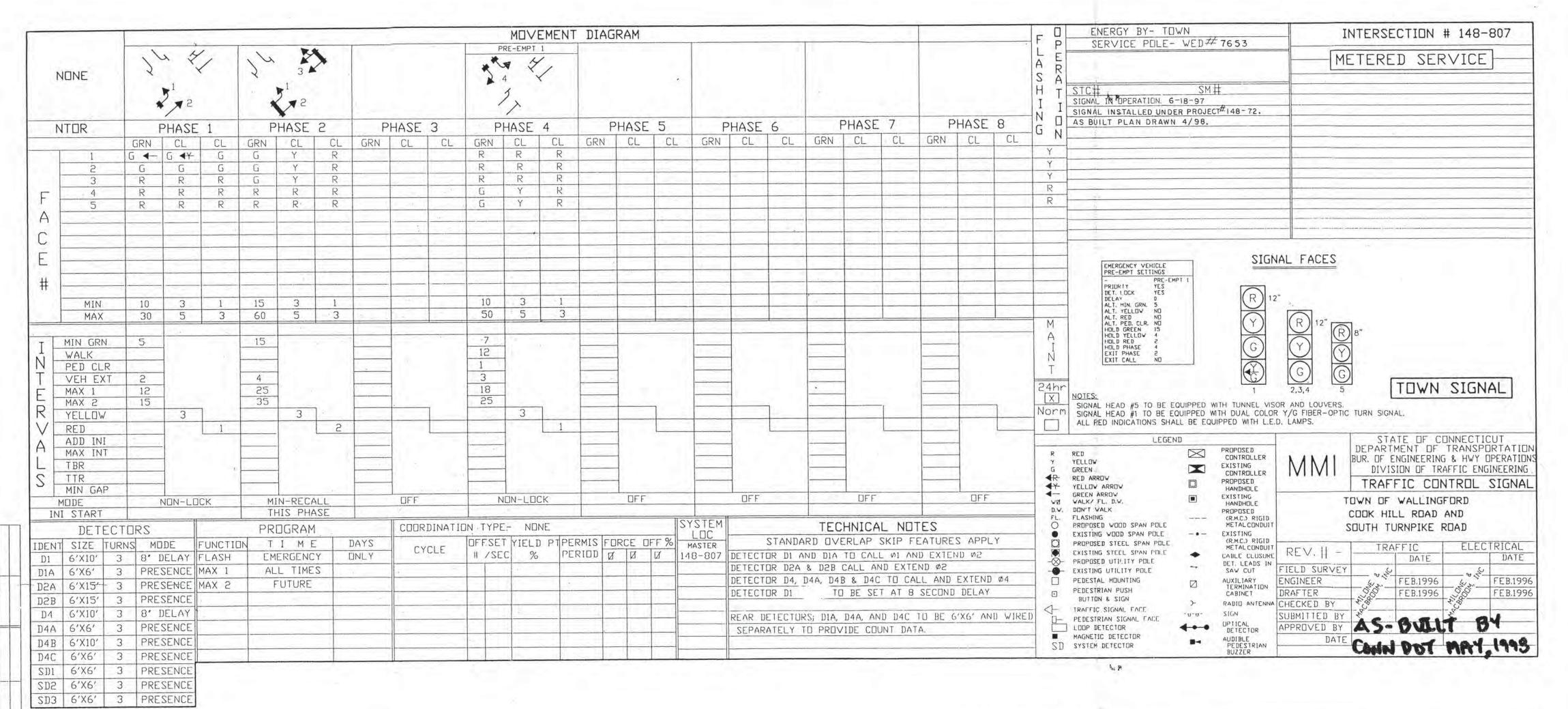
- 1. ALL TRAFFIC CONTROL EQUIPMENT IS NEW. ALL MATERIALS AND EQUIPMENT SHALL CONFORM TO THE FORM 814A AND AS AMENDED. THE LOCATIONS OF ALL THE TRAFFIC CONTROL EQUIPMENT SHALL BE STAKED, AND APPROVED BY THE TOWN/ENGINEER PRIOR TO CONSTRUCTION.
- 2. ALL CABLING SHALL BE NEW AND INSTALLED WITHOUT SPLICES.
- 3. SPAN WIRE SHALL BE 3/8",120 DIA. EXTRA STRENGTH 15,400 LBS. MAXIMUM BREAKING STRENGTH.
- 4. CONSTRUCT STANDARD CONNDOT APPROVED PEDESTRIAN SIDEWALK RAMPS, SEE SEPARATE CONSTRUCTION -PLAN-AND-DETAILS .-
- 5. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" PRIOR TO ANY EXCAVATION. (1-800-922-4455)
- 6. ALL WORK TO BE COORDINATED WITH THE TOWN OF WALLINGFORD POLICE DEPARTMENT, CONTACT OFFICER R. A. DOLL (203)294-2250.
- 7. THE CONTRACTOR WILL SCHEDULE HIS CONSTRUCTION WORK SO THAT POSITIVE TRAFFIC CONTROL (STOP SIGNS, TEMPORARY SIGNALS, ETC.) ARE IN PLACE AND OPERATIONAL AT ALL TIMES.
- 8. THE CONTRACTOR SHALL SUPPLY, INSTALL AND MAKE FULLY OPERATIONAL; TO THE SATISFACTION OF THE TOWN THE FOLLOWING:
 - (A) 30' (9.14-METERS)-STEEL-SPAN-POLE-ON-STANDARD-SPAN-POLE-FOUNDATION-STATION-9+52, 24' LEFT. ATTACH SPAN WIRE TO EXISTING POLE WED 4762
 - (B) 30' (9.14 METERS) STEEL SPAN POLE ON STANDARD SPAN POLE FOUNDATION WITH POLE MOUNTED ADA APPROVED PUSH BUTTON AND SIGN ASSEMBLY, STATION 10+42,28' RIGHT, IN ACCORDANCE WITH ALL APPLICABLE NEC CODES, THE CONTRACTOR SHALL FURNISH AND INSTALL A 60 AMP WEATHER-PROOF DISCONNECT. THE DISCONNECT SHALL BE A CUTLER-HAMMER SAFETY SWITCH, HEAVY-DUTY SINGLE THROW, 222 NDK-NEMA RATED 12 (3R) DEVICE. THE DISCONNECT SHALL BE MOUNTED TEN (10) FEET ABOVE THE ADJACENT GRADE, AND IN ACCORDANCE THE TOWN'S AND MANUFACTURER'S RECOMMENDATIONS. THE COST FOR THE DISCONNECT SHALL BE INCLUDED IN THE SPAN POLE.
 - (C) INSTALL TOWN APPROVED (STANDARD) FULL ACTUATED 8 PHASE (MASTER) CONTROLLER ON NEW TYPE IV CONTROLLER FOUNDATION. IN "NEW STYLE BC4T" MASTER CABINET AS MANUFACTURED BY THE SOUTHERN MANUFACTURING COMPANY, ORLANDO, FLORIDA, STATION 9132, 24' LEFT. CONTROLLER SHALL BE EQUIPPED WITH INTERNAL EMERGENCY VEHICLE PRE-EMPT CAPABILITY. THE CONTROLLER SHALL BE EQUIPPED WITH ALL NECESSARY AND/OR REQUIRED COMPONENTS AND INTERNAL COMMUNICATION MODULES FOR INCLUSION IN AND FULL COMPATABILITY WITH THE TOWNS EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM. THE CONTROLLER CABINET SHALL BE FURNISHED WITH WALLINGFORD ELECTRIC DIVISION APPROVED METER SOCKET, SPECIAL DOOR IN DOOR ASSEMBLY AND WEATHERPROOF DISCONNECT UNIT. WORK WILL ALSO INCLUDE THE INSTALLATION OF A 3'-0" X 5'-0" 4'-0" CONCRETE PAD ON THE DOOR SIDE OF THE CONTROLLER. THE DOOR TO THE CABINET WILL OPEN
 - (D) INSTALL 4'-4" (1.30 METERS) ALUMINUM PEDESTAL ON TYPE I PEDESTAL FOUNDATION, WITH ADA AFPROVED PUSH BUTTON AND SIGN ASSEMBLY, STATION 9+65, 27' RIGHT.
 - (E) INSTALL TYPE II HANDHOLES, (TYPICALLY 1'-0" (0.305 METERS) FROM NEW CURB, UNLESS OTHERWISE
 - (E) INSTALL TYPE II HANDHOLES AND 1" RMC WITH 16/10 TWISTED PAIR CABLE TO THE NEAREST RELOCATED UTILITY POLE.
- (F) INSTALL 1 1/2" RMC (IN TRENCH/ON POLE) TO NEAREST, SNET POLE, WITH CABLE BETWEEN POLE AND MÖDEM IN CONTROLLER CABINET. THE CONTRACTOR SHALL PAY ALL FEES OR COSTS TO SNET FOR THE INSTALLATION OF THE TELEPHONE SERVICE.
- (C) HISTALL 4000 L.F. ± 16/10 TWISTED PAIR FIGURE 8 COMMUNICATION CABLE ON RELOCATED AND EXISTING UTILITY POLES ALONG SOUTH TURNPIKE ROAD BETWEEN COOK HILL ROAD AND CHESHIRE ROAD. ALL LESTS ASSOCIATED WITH THIS WORK WILL BE INCLUDED IN THE LINEAR FOOT PRICE BID FOR THIS LITEM. 16/10 TWISTED PAIR FIGURE 8 COMMUNICATION CABLE TO BE INSTALLED UNDER PROJECT NO. 148-156/168.
- (W) INSTALL 30" X 30" CONCRETE HANDHOLES.
- 9 ELECTRICAL SERVICE TO THE CONTROLLER SHALL BE COORDINATED WITH THE WALLINGFORD ELECTRICAL DIVISION. THE CONTRACTOR SHALL PAY ALL FEES AND COSTS FOR OBTAINING. CONTACT MR. JAMES H. RAINEY AT WALLINGFORD ELECTRIC DIVISION (203) 265-0308 TO COORDINATE.
- 10. ALL SIGNALS SHALL BE HUNG SO THAT A MINIMUM VERTICAL CLEARANCE OF 17 FEET (5.18 METERS) IS MAINTAINED BETWEEN THE FINAL ROADWAY SURFACE AND THE BOTTOM OF THE SIGNALS.
- 11. THE OPTICOM RECEIVER(S) SHALL BE MOUNTED ON THE SPAN WIRE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. A SEPERATE 20/3 CABLE SHALL BE INSTALLED (UNSPLICED) DIRECTLY TO THE CONTROLLER.
- INSTALL LOOP DETECTORS IN BASE COURSE OF EXISTING PAVEMENT 3' (0.914 METERS) OFF OF CURB LINE OR EDGE OF ROAD, AND 8' (2.438 METERS) APART UNLESS OTHERWISE NOTED. SEGMENTED LOOPS
- 13. THE CONTRACTOR SHALL STAKE ALL R.O.W. PRIOR TO ANY EXCAVATION.
- 14. INSTALL CABLE CLOSURE ON SPAN ±5' FROM CURB LINE.
- 15. INSTALL RMC STAND-OFFS ON ALL UTILITY POLES WHERE REQUIRED.
- 16. CONTACT BELOW NOTED UTILITY/PROJECT REPRESENTATIVES A MINIMUM OF TWO (2) WEEKS PRIOR TO
- 17. ALL TRAFFIC SIGNAL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TOWN OF WALLINGFORD AND CONNDOT'S STANDARD INSTALLATION DETAIL SHEETS.
- 18. ALL STATIONING AND OFFSETS REFER TO THE CONSTRUCTION BASELINE FOR THE OVERALL INTERSECTION RECONSTRUCTION PROJECT. SEE SHEET NUMBER 3 FOR BASELINE COORDINATES. SEE SHEET NUMBER 13 FOR LOCATIONS OF PAVEMENT MARKING AND SIGNING.
- 19. ALL LOOP DETECTOR INSTALLATIONS AND WIRING SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD CONSTRUCTION DETAILS IN ORDER TO ACHIEVE THE REQUIRED VEHICLE DETECTION AND TRAFFIC COUNT FUNCTIONS.
- 20. FOLLOWING CONSTRUCTION, AND ACCEPTANCE OF ALL TRAFFIC CONTROL EQUIPMENT, (INCLUDING THE EMERGENCY VEHICLE PRE-EMPT EQUIPMENT) THE TOWN OF WALLINGFORD WILL OWN, OPERATE AND

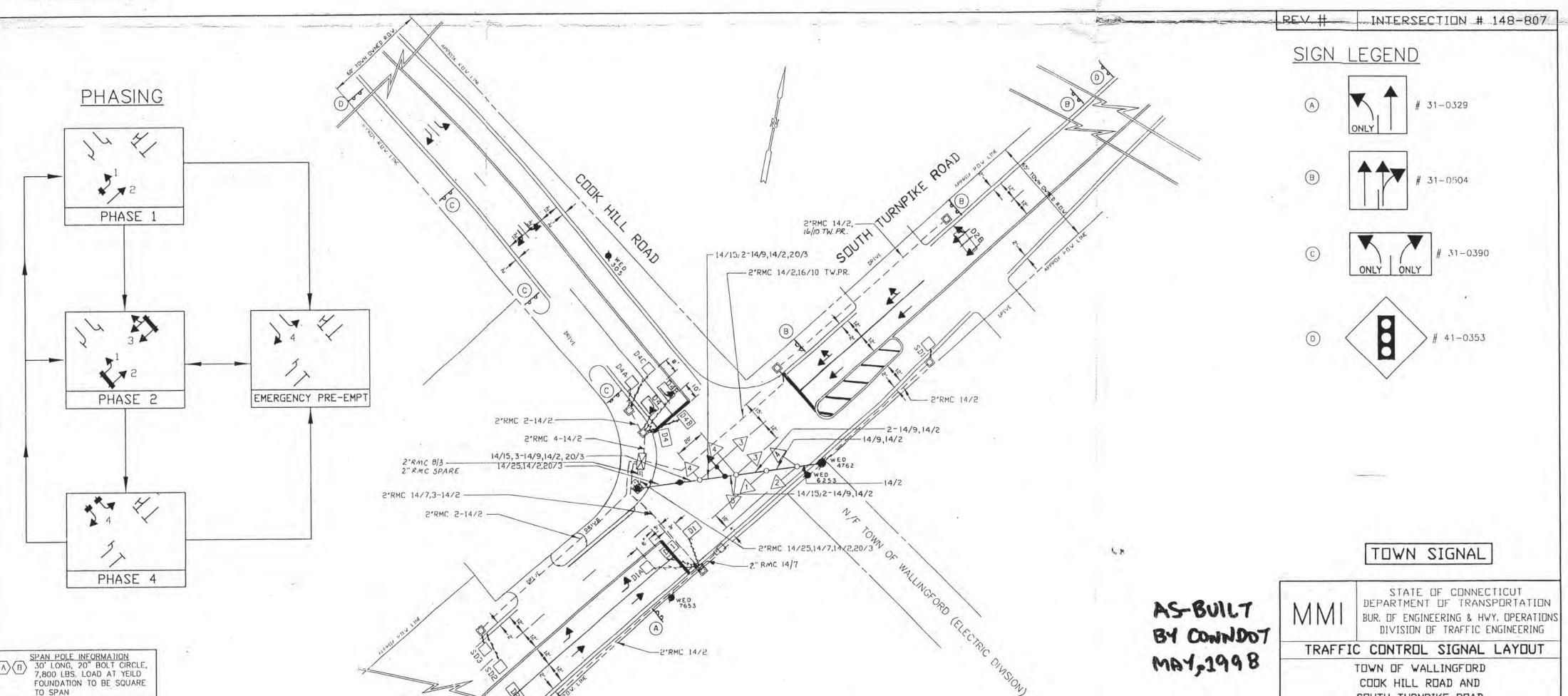
UTILITY/PROJECT CONTACTS TOWN / POLICE: R. A. DOLL: 294-2250 SNET: BOB WENTWORTH: (203)725-4436 AT&T: RON TARINI: (203)269-2565 WALLINGFORD ELECTRIC: JAMES RAINEY: 265-0308 TCI CABLE: JIM HUBBARD: (203)483-3623 DESIGNER: M.M.I., JOHN P. THOMPSON (203)271-1773

> DWNERS NAME TOWN OF WALLINGFORD

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING & HIGHWAY OPERATIONS DIVISION OF TRAFFIC ENGINEERING

> RECORD PLAN TRAFFIC CONTROL SIGNAL BY CONN DOT





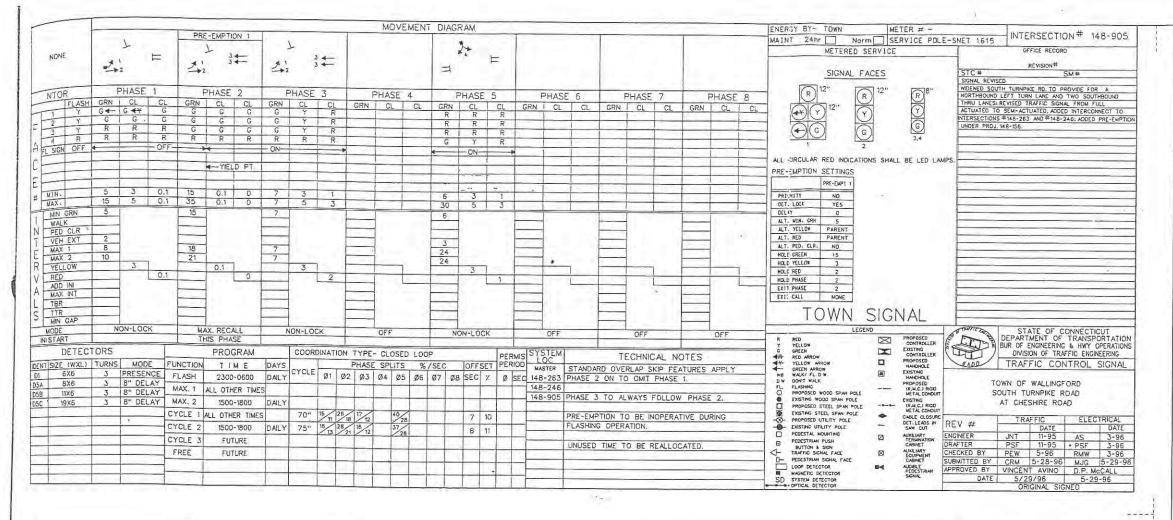
1.10 1...

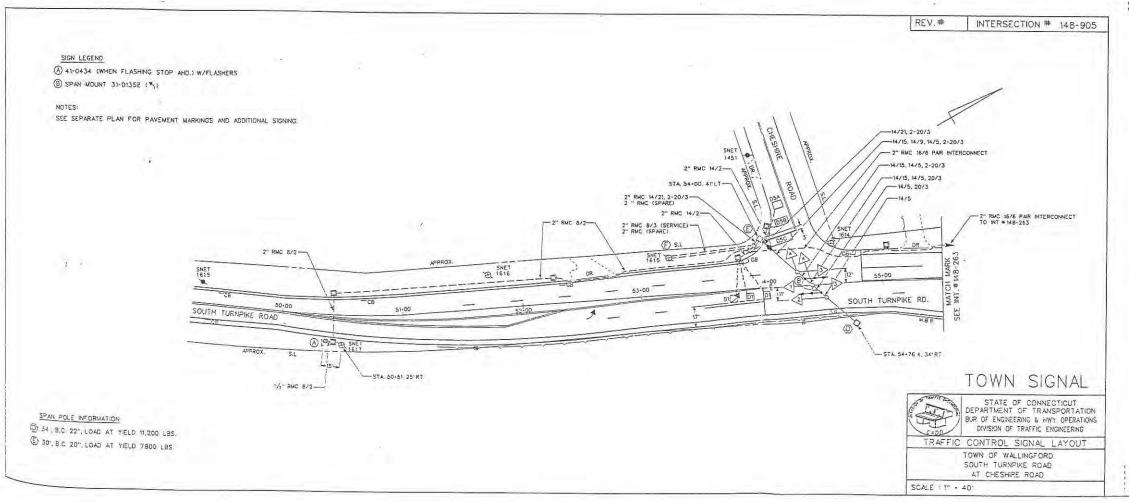
SOUTH TURNPIKE ROAD

DATE: FEB., 1990

SCALE 1' = 40'

100011





F.H.W.A. REGION NO. STATE TOWN FED. AID PROJ. NO. YEAR ROUTE SHOWN. I CONN. WALLINGFORD DPM-0009(4) 148-156 1996 15 F

RECONSTRUCTION OF INTERCHANGE 64 ROUTE 15 S.B. (WILBUR CROSS PARKWAY) CONSTRUCTION NOTES

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW.

STAKE ALL R.O.W. PRIOR TO EXCAVATION.

INSTALL LOOP DETECTORS 3' OFF EDGE OF ROAD AND 8' APART UNLESS OTHERWISE SPECIFIED.

SEGMENTED LOOPS TO BE SPLICED IN SERIES.

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

INSTALL R.M.C. STAND-OFFS ON ALL UTILITY POLES.

© RUN SPARE CONDUIT TO BASE OF SNET 1615. CAP END OF CONDUIT 1' UP FROM GROUND.

INSTALL CONCRETE SIDEWALK ON CABINET DOOR SIDE OF CONTROLLER FOUNDATION AS SHOWN ON TYPICAL INSTALLATION DETAIL SHEET.

CABINET DOOR TO OPEN FIELD SIDE.

TWO WEEKS PRIOR TO INSTALLATION CONTACT WALLINGFORD ELECTRIC DIVISI-REPRESENTATIVE ART DUTRA AT (203) 265-0308 AND SNET REPRESENTATIVE LERDY WALKER AT (860) 725-4514.

TRAFFIC SIGNAL CABLE CLOSURE SHALL BE INSTALLED ON THE SPAN \pm 5' FROM THE CURBLINE.

PRE-EMPTION IS TO OPERATE THROUGH THE INTERNAL PRE-EMPTION OF THE SIGNAL CONTROLLER.

OPTICAL DETECTOR LOCATIONS ON SPAN WIRE ARE FOR ILLUSTRATION ONLY. EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR DESIGNATED REPRESENTATIVE.

THE CONTRACTOR IS TO INSTALL A SWITCH IN THE SIGNAL CABINET TO EFFECTIVELY DISCONNECT THE PRE-EMPTION EQUIPMENT FROM THE TRAFFIC SIGNAL CONTROLLER.

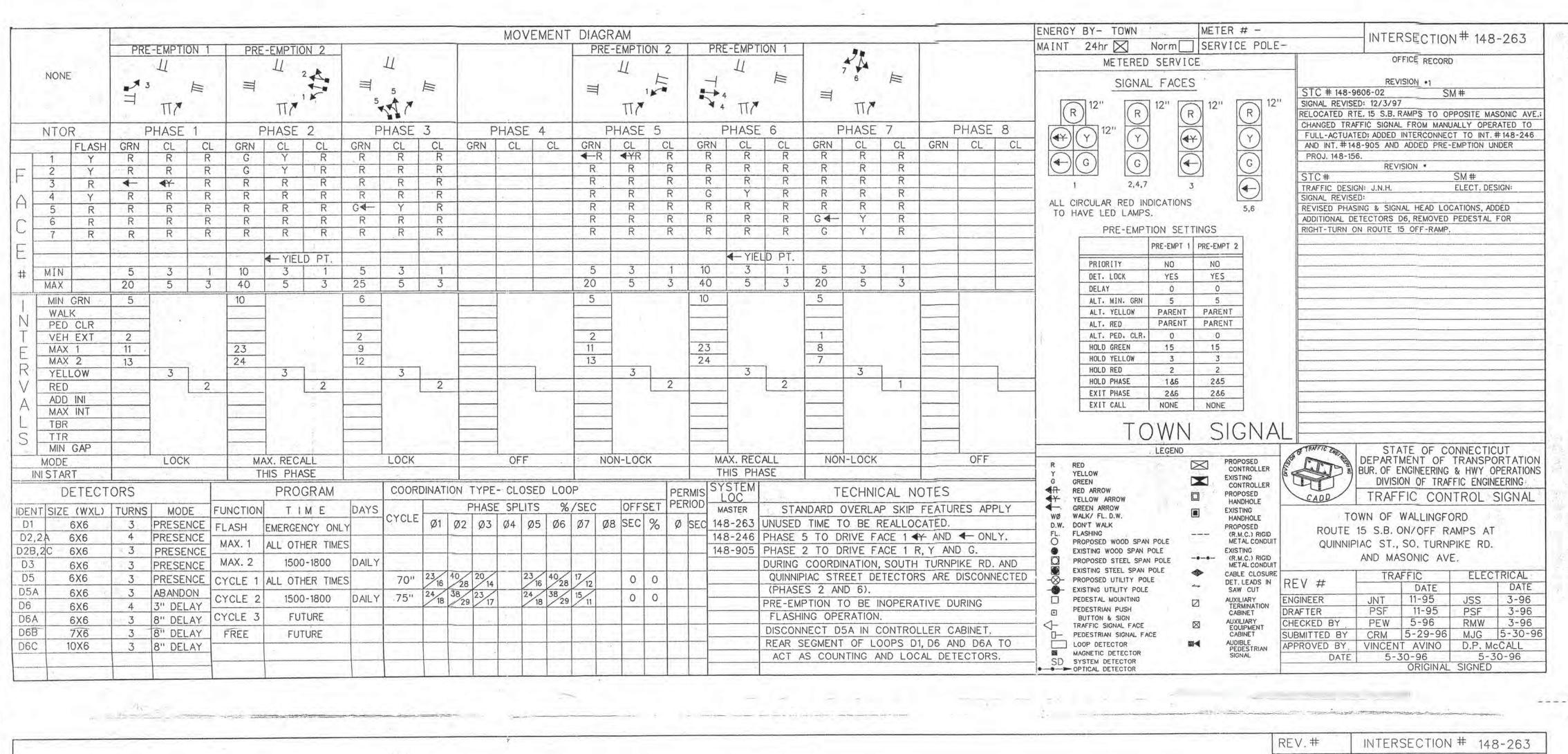
STATE OF CONNECTICUT

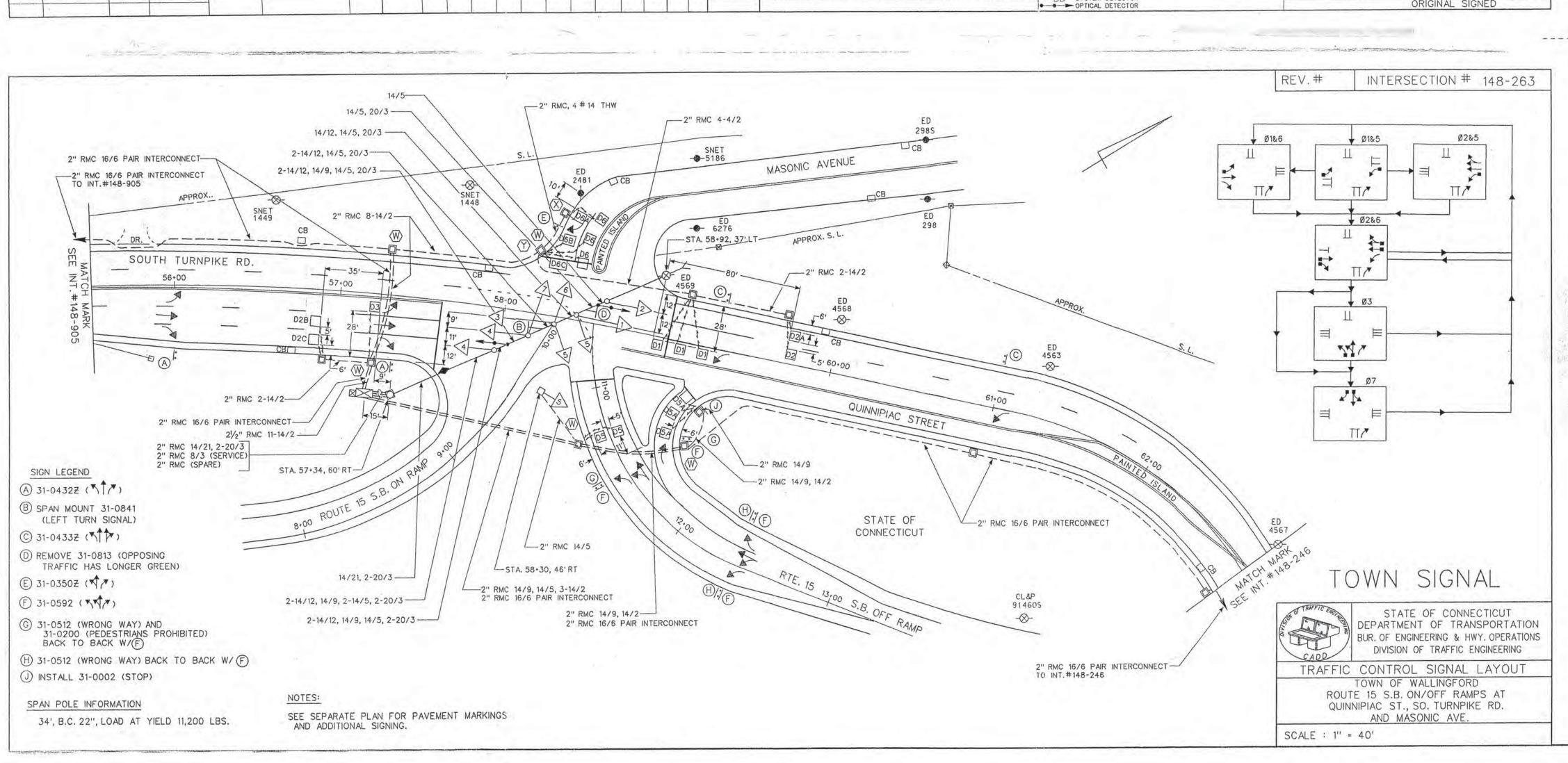
DEPARTMENT OF TRANSPORTATION

BUREAU OF ENGINEERING & PIGHWAY OPERATI

DIVISION OF TRAFFIC ENGINEERING

TRAFFIC CONTROL SIGNAL





F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO	YEAR	ROUTE NO.		TO'
1	CONN.	WALLINGFORD	DPM-0009(4)	148-156	1996	15	140A	

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW.

STAKE ALL R.O.W. PRIOR TO EXCAVATION.

■ INSTALL 30" X 30" HANDHOLE. ALL OTHERS TYPE II.

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

INSTALL R.M.C. STAND-OFFS ON ALL UTILITY POLES.

INSTALL LOOP DETECTORS 3' OFF EDGE OF ROAD AND 8' APART UNLESS OTHERWISE SPECIFIED. SEGMENTED LOOPS TO BE SPLICED IN SERIES.

LOOP DETECTOR SAWCUT WIRES SHALL BE PULLED THROUGH HANDHOLE (WITH NO SPLICES) AND THROUGH THE 2" R.M.C., THEN SPLICED TO CORRESPONDING LOOPS IN EACH LANE, IN HANDHOLE (). TWIST LOOP DETECTOR SAWCUT WIRES INSIDE THE 2" R.M.C. ACCORDING TO TYPICAL PLAN.

INSTALL CONCRETE SIDEWALK ON CABINET DOOR SIDE OF CONTROLLER FOUNDATION AS SHOWN ON TYPICAL INSTALLATION DETAIL SHEET.

CABINET DOOR TO OPEN FIELD SIDE.

TWO WEEKS PRIOR TO INSTALLATION CONTACT WALLINGFORD ELECTRIC DIVISION REPRESENTATIVE ART DUTRA AT (203) 265-0308 AND SNET REPRESENTATIVE LEROY WALKER AT (860) 725-4514.

TRAFFIC SIGNAL CABLE CLOSURE SHALL BE INSTALLED ON THE SPAN ± 5' FROM THE CURBLINE.

SPAN ATTACHMENT ON ED 4569 SHALL BE APPROX. 30'. CONTRACTOR TO VERIFY LOCATION WITH UTILITIES PRIOR TO ATTACHMENT.

ED 4569 TO BE ANCHORED AND GUYED.

PRE-EMPTION IS TO OPERATE THROUGH THE INTERNAL PRE-EMPTION OF THE SIGNAL CONTROLLER.

THE CONTRACTOR IS TO INSTALL A SWITCH IN THE SIGNAL CABINET TO EFFECTIVELY DISCONNECT THE PRE-EMPTION EQUIPMENT FROM THE TRAFFIC SIGNAL CONTROLLER.

OPTICAL DETECTOR LOCATIONS ON SPAN WIRE ARE FOR ILLUSTRATION ONLY.

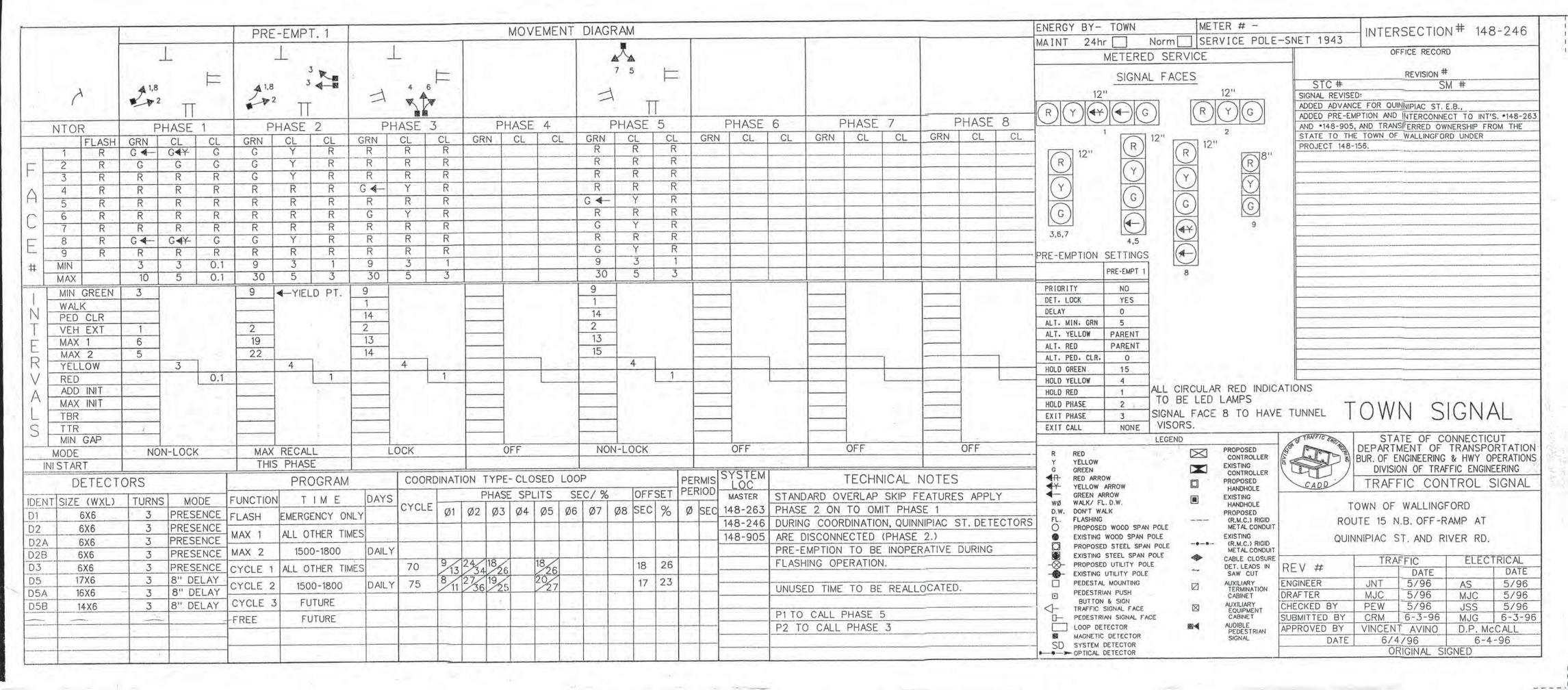
EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR THEIR

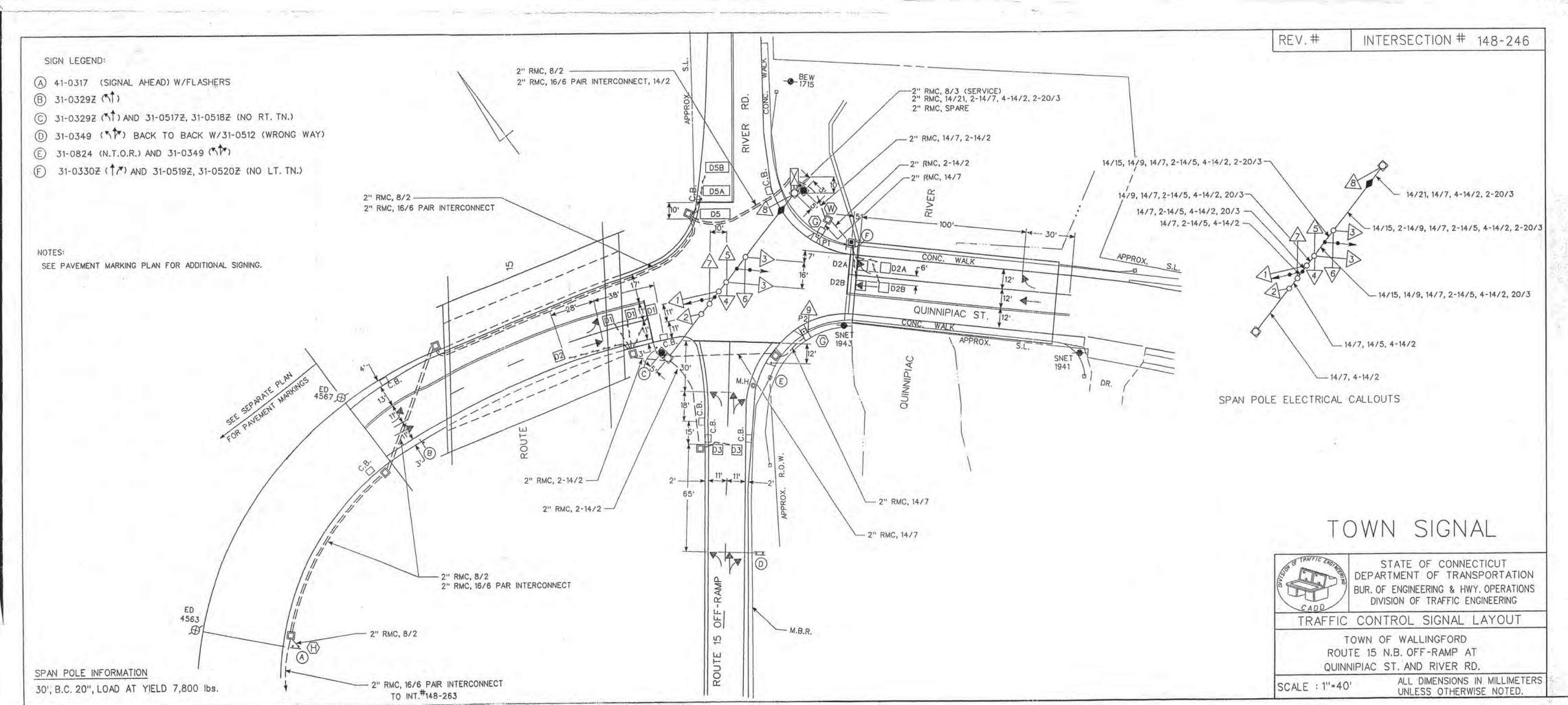
DESIGNATED REPRESENTATIVE.

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING & HIGHWAY OPERATIONS
DIVISION OF TRAFFIC ENGINEERING

A 6/98 REVISED PHASING & SIGNAL HEAD
LOCATIONS, ADDED ADDITIONAL
DETECTORS D6, REMOVED PEDESTAL
FOR RIGHT-TURN ON ROUTE 15
OFF-RAMP.

TRAFFIC CONTROL SIGNAL





F.H.W.A. REGION NO. STATE TOWN FED. AID PROVING YEAR ROUT. SHEET TOWN PROJ. NO. DPM-0009(4) 148-56 1996 15 739A

CONSTRUCTION NOTES

ALL TRAFFIC SIGNAL EQUIPMENT IS NEW EXCEPT AS NOTED.

STAKE ALL R.O.W. PRIOR TO EXCAVATION.

LOOP DETECTORS D2A AND D2B ARE EXISTING.

INSTALL LOOP DETECTORS 3' OFF EDGE OF ROAD AND 8' APART UNLESS OTHERWISE NOTED.

INSTALL LOOP DETECTORS DI IN CENTER OF LANE AND 8' APART.

SEGMENTED LOOPS TO BE INSTALLED IN SERIES.

(W) INSTALL 30" X 30" HANDHOLE. ALL OTHERS TYPE II.

INSTALL HANDHOLES APPROX. 1' BEHIND CURB OR EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

- (G) INSTALL PEDESTAL ADJACENT TO SIDEWALK RAMP AT BACK EDGE.
- (H) INSTALL DISCONNECT BOX IN PLACE OF FLASHER CABINET.

REPLACE ENTIRE SECTION OF SIDEWALK DAMAGED DUE TO INSTALLATION OF CONDUIT, HANDHOLE OR FOUNDATION.

CABINET DOOR TO OPEN FIELD SIDE.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO FOUNDATIONS, HANDHOLES, CONDUIT RISERS & CABLE, MESSENGER & INTERCONNECT, STEEL POLES, AND WOOD POLES.

TRAFFIC SIGNAL CABLE CLOSURE SHALL BE INSTALLED ON THE SPAN + 5' FROM THE CURBLINE.

TWO WEEKS PRIOR TO INSTALLATION CONTACT WALLINGFORD ELECTRICAL DIVISION REPRESENTATIVE ART DUTRA AT (203) 265-0308 AND SNET REPRESENTATIVE LEROY WALKER AT (860) 725-4514.

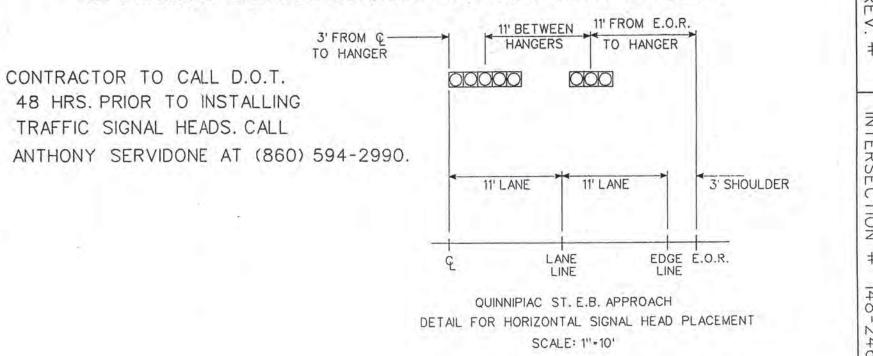
PRE-EMPTION IS TO OPERATE THROUGH THE INTERNAL PRE-EMPTION OF THE SIGNAL CONTROLLER.

THE CONTRACTOR IS TO INSTALL A SWITCH IN THE SIGNAL CABINET TO EFFECTIVELY DISCONNECT THE PRE-EMPTION EQUIPMENT FROM THE TRAFFIC SIGNAL CONTROLLER.

OPTICAL DETECTOR LOCATIONS ON SPAN WIRE ARE FOR ILLUSTRATION ONLY, EXACT LOCATIONS SHALL BE DETERMINED BY THE MANUFACTURER OR HIS DESIGNATED REPRESENTATIVE.

CONTRACTOR TO INITIALLY INSTALL PAVEMENT MARKINGS AS INDICATED BELOW:

- ALL PAVEMENT MARKINGS ON ROUTE 15 OFF RAMP
- ALL PAVEMENT MARKINGS ON QUINNIPIAC ST. EASTBOUND APPROACH.



		STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING & HIGHWAY OPERATION
	REVISIONS	DIVISION OF TRAFFIC ENGINEERING
ATE	INIT: DESCRIPTION -	
/98	REVISED OFFSETS DUE TO REVISED	
	PHASING OF ADJACENT SIGNAL 148-263	

TRAFFIC CONTROL SIGNAL



STATE OF CONNECTION - DEPT. DE TRANSFOR LATION FOR AN INCOME REPORTE PRILL NO. WALLINGFURB STPN 38565 (27/148-46.11997.)

CENSTRUCTED NHIE

- ALL TRAFFITE CHATROL EDUTPMENT UNLESS OTHERWISE NOTED IS NEW ALL MATERIALS AND EQUIPMENT SHALL CONFORMETO THE FORM 8144 AND AS AMENDED. ALL NEW TRAIT IC CONTROL COUTPMENT SHALL BE EIE DILLICATED AND APPRINCE BY THE ENGINEER AND THE IDAN PRICE IN CONSTRUCTION
- TALL CAREING SHALL BE HIW AND INSTALLED WITHOUT SPETCES.
- 3. A SPAN WIRE SHALLEDE TBYRE TOU DIA. EXTRA STRENGTH 1. 400 LBS MAXIMUM RELAKING STRENGTH
- A TYPE 3 PEDESTRIAN SIDEWALK RAMPS.
- CUNTRACTOR SHALL CUNTACT CALL BEFORE YOU BIG' ! 1-800-922 44550 PRIOR TOTANY EXCAVATION
- WALL WERE TO BE CHERDINATED WITH THE THE THE WALLINGFORD PELLET DEPARTMENT, CONTACT DEFICER REAR BOLE 294 2250
- THE CONTRACTOR WILL SCHEDULE HIS CONSTRUCTION WORK SO THAT POSTELVE TRAFFIC CONTROL (STUP SILMS, TEMPORARY SLEWALS, ETC.) ARE IN PLACE AND OPERATIONAL ALL TIMES.
- THE CUNTRACTOR SHALL SUPPLY TINSTALL AND MAKE FULLY DIFLICATIONAL THE FOLLOWING
- (A) 38" STEEL SPAN PULL ON STANDARD SPAN POLE COUNDATION.
- (B) 28" STEEL SPAN BOLL ON STANDARD SPAN PULE FOUNDATION WITH ROLL MOUNTLD ADA APPROVED PUSH BUTTON AND STON ASSEMBLY, AND & DNE-WAY PEDESTRIAN SIGNAL
- (C) ENSTALL TOWN APPROVED ESTANDARDS FULL ACTUATED & PHASE (MASTER) LIBITIZEETE ON NEW. YEE IV CONTROLLER FOUNDATION CONTROLLER SHALL BE FULLPHED WITH INTERNAL EMERGENCY VEHICUE PRE-EMPT CAPABILITY STHE CONTROLLER SHALL BE ECOLIPPED WITH ALL NECESSARY AND XOR PEQUIRED COMPONENTS AND INTERNAL COMMUNICATION MODULES FOR INCLUSION IN AND FUEL COMPATIBILITY WITH THE TOWN'S EXISTING CHOSED LOOP TRAFFIC STOWAL SYSTEM THE CONTROLLER TYPE IV CABINET SHALL BE EDUIPMENT WITH A WALLINGLORD ELECTRIC DIVISION APPROVED METER SOCKET, AND A WEATHERPROOF DISCONNECT
- (D) INSTALL 8'-0" ALUMINUM PEDESTAL ON TYPE I PEDESTAL FOUNDATION WITH ADA APPROVED PUSH BUTTON AND SION ASSEMBLY AND TWO-WAY PEDESTRIAN SIGNAL
- (E) INSTALL 87 0" ALUMINUM PEDESTAL ON TYPEST PEDESTAL FOUNDATION WITH ADA APPRINCED PUSH BUITON AND SEGN ASSUMBLY AND DINE WAY PEDESTRIAN STONAL
- (F) PASTALL TYPEST F HANDHOLES, CTYPICALLY 1'-D' FROM NEW CUPB UNLESS DIMERVISE NOTEDS
- (G) INSTALL 100 0" ALUMINUM PEDESTAL, WITH BNE-WAY VEHICLEAR TRAFFIC STONAL
- (H) INSTALL 10' 0' ALUMINUM PEDESTALS WITH UNL-WAY VEHICULAR TRAFFIC SIGNAL AND ADA APPROVE PUSH BUITON AND SIGN ASSEMBLY AND DINE-WAY PEDESTRIAN SIGNAL
- INSTALL TUNNESTATE APPROVED AUDIBLE PEDESTRIAN STUNAL WITH ADJUSTABLE FLEDSTAF IN DUNTRUELER CARTNEL
- 1) INSTALL 2' RMC FOR TRAFFIC CONTROL COURDINATE EXACT LOCATION WITH TITHERS PERFORMING SEDEWALK AND CIGHTING WORK IN PARK.
- AN INSTACL 180 X24" SECTIONARY SPECIE BOX (SPE SPECIAL PROVESTOR THE DRIVATED DRIVATED C. USAGNATS THE
- (W) INSTALL 30" X30" CONCREJE HANDHOLET ALL DIFFERS TO BE LIVE
- FEEGERIGAL SERVICE IN THE CONTROLLER SHALL BE COORDINATED WITH THE WALLINGKORD PLITTER LA DIVISIEN THE CUNTRACTUR SHALL PAY ALL FLES AND CHAIS FOR HAMAINING CONTACT MP OUT DUTRA AT WALLINGTORD ELECTRIC DIVISION (203) 265-0308 TO COMPRIMATE
- THE DRIEDE RECEIVERS. SHALL BE MOUNTED MIN SPAN IN ACCURDANCE WITH HE MANDE ACCURE E RECOMMENDATIONS AND SHALL BE AFFROVED BY AN AUTHORIZED REPFESIVE ALIVE BE 3, M PRIOR TO INSTALLATION OF TURN-ON A SEPARATE BUTT CABLE FOR EACH OF THAT DETECTION SHALL BE INSTALLED KUNSPLICED DIRECTLY IT THE CUNTRULLER CARINET
- ALE SIGNALS SHALL BE HUNG SO THAT A MINIMUM VERTICAL CLEARANCE DE LA FELT CALOS METER! IS MAINTAINED BETWEEN THE FINAL ROADWAY SURFACE AND THE ROTTIM OF THE SIGNALS.
- 18 MEN STALL LEDDE DETECTORS IN BASE COURSE OF NEW PAVEMENT, CENTIFY OF GANE AND 8' X2 438 METERS) APART UNLESS DIFFERWISE NETED SEGMENTED LILLE TO BE SPLICED IN SERIES.
- 13 THE INSTALL TRAFFEC SIGNAL CABLE CLUSURE DINESPANT 5 FFETH FROM FURBLINE
- 143 CINSTACE RMC STAND OFF ON UTILITY POLE BEW 11749 INSTALL POLE MOUNTED SERVICE DISCONNECT TO FEET ADOVE THE GROUND ON PULE BEWILTAN
- 15 CONTACT NOTED DELICITY COMPANIE SON MINIMUM OF TWO CEY WEEKS PRIDE IN CONSTRUCTION
- 6. SALE TRACETO STUMAL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH CONNIGHT S AND VERSEVALLETNER DEDES STANDARDS.
- 17 THE TRAFFIC SIGNAL CUNTRACTOR SHALL COURDINATE THE PLACEMENT OF THE NEW FRAFFIC CONTROL APPURTENANCES AT VALLACE PARK WITH TOTHERS WHE MAY BE WERE INC. IN THE SAME AREA.
- EATTACH SPANNIRE TO UTILLLY POLE SNET #1932 AT APPREXIMATELY 24,5 FEEE ARIVE THE DROWN
- AND UTILITY POLE SNET #1983 AT APPROXIMATELY 28 O FEET ABOVE THE GROUND
- ANCHOR BOLTS FOR POLE FOUNDATIONS SHALL BE SET SQUARE TO THE SPAN POLE SUCH THAT TWO BOLTS ARE IN TENSION AND TWO ARE IN COMPRESSION.
- CUNIRACITER TIL CUERDINATE WITH WALLINGFURD ELLETRIC DIVISIEN IE PROVIDE BACK GUYS AND MITALIATION OF THE ESPECIAL OF SEPTEMBER OF A LINE OF THE PARTIES OF THE PROPERTY OF THE PROPE

UTILLLY/PRUJECT CHNTACT TUMN 7 POLICE REA DOLLE 294-2250 SNET: BOB BOULFARD 1800 748 1693 AT&T: RUN TARINI (203) 269-2565 WALLINGTURD ELECTRIC ARE DUTRA (203)265-0100 TOT CABLE ADAM BUFR C203/483-2360 MDESTONER MEM TE JUHN PALLHEMPSON (2003) 2711 /73 BUREAU (IF FNG INFERING & HIGHWAY UP PALLHINS

I DAME BS WAWE

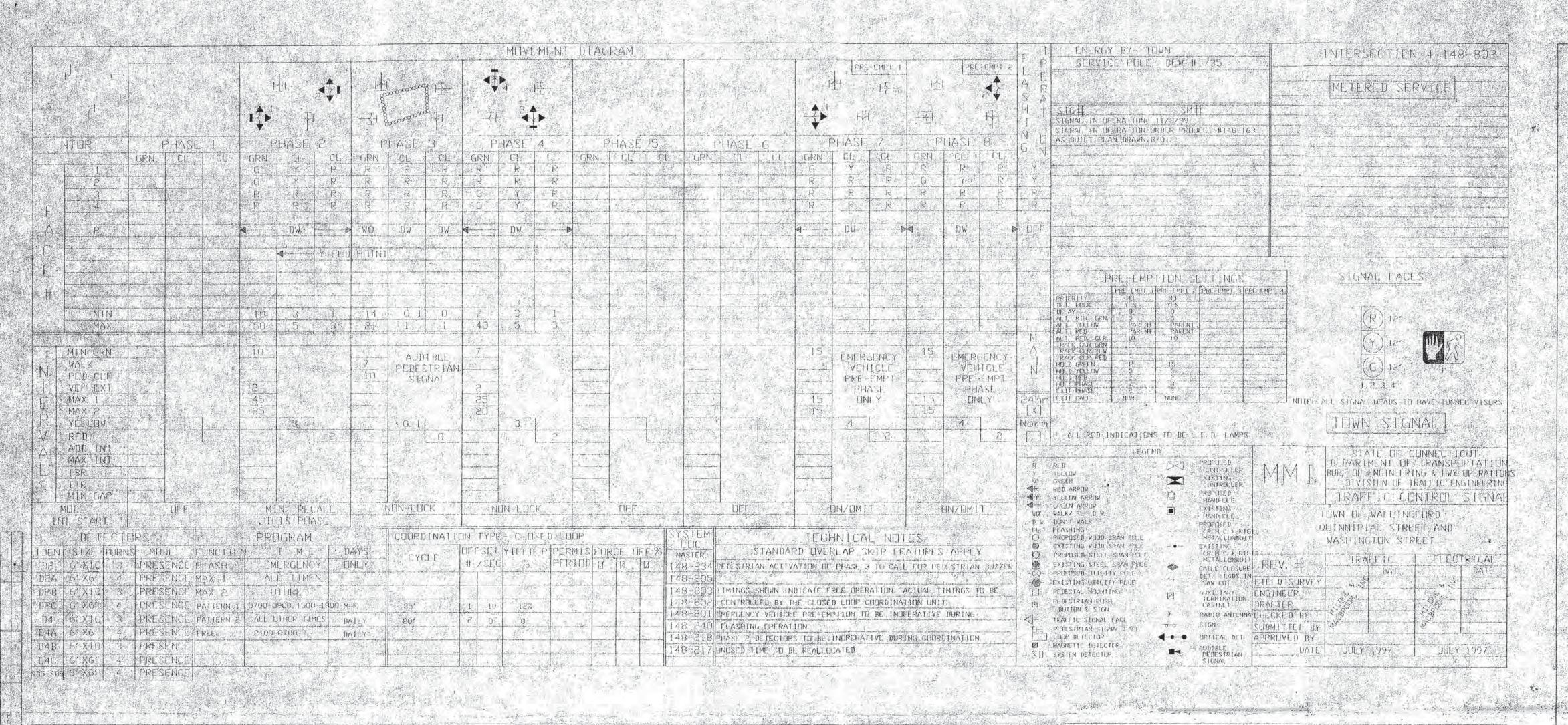
FTOWN OF

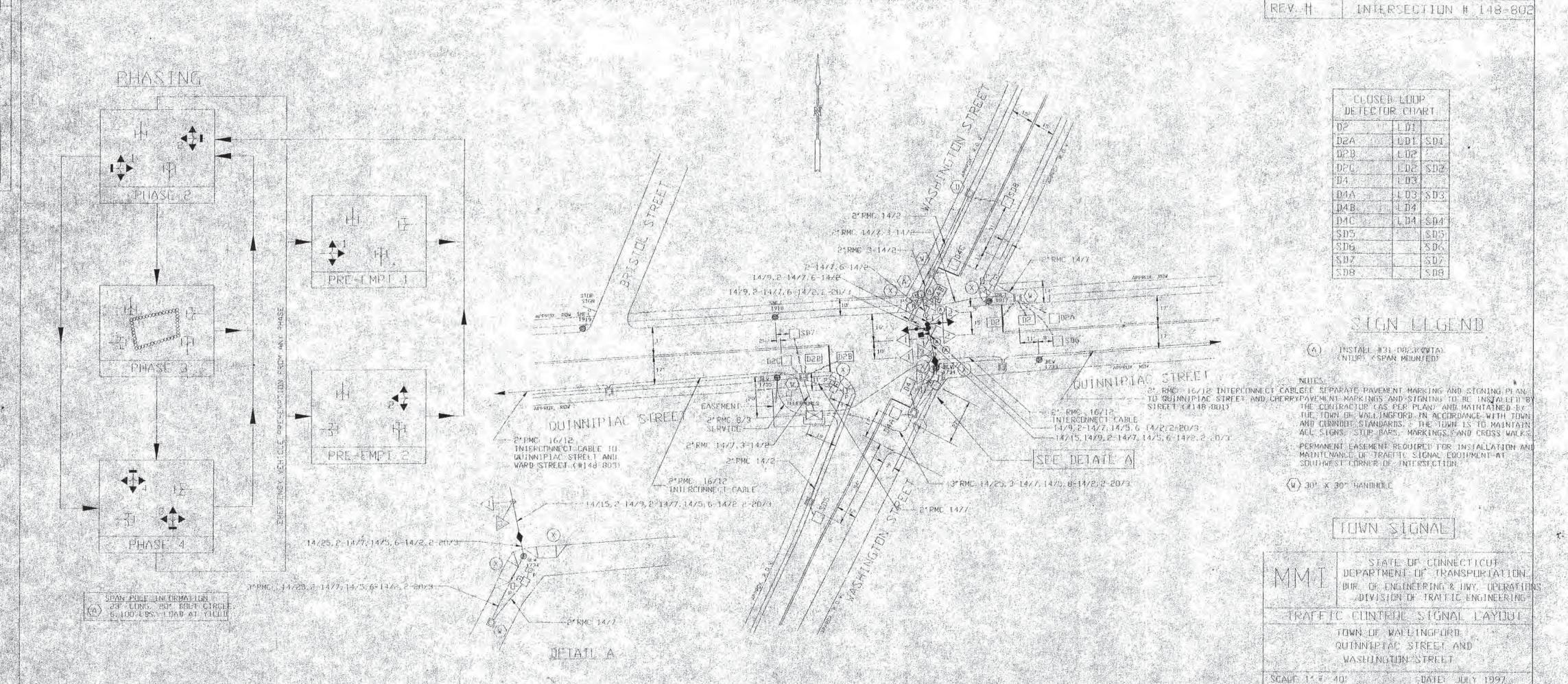
WALLINGFUED

ESTATE UF CONNECTION

DIVISION OF TRACEID ENGINEERING QUINNIPIAC ST. & WARD ST.

TRAFFILE CONTROL SIGNA





TATE DE CONNECTICUT - DEPT. DE TRANSPORTATION FORM NO ENGLIA PEV 1-88

REGION NO STATE TOWN A PROJECT NO PROJECT SHEET TOTAL PROJECT NO. NO. NO. SHEET TOTAL PROJECT NO. STEN-2565.02 148-1631997 30: 54

FOUNTRUCTIONSNOTES

ALL TRAFFIC CONTROL EQUITMENT. UNLESS DIFFERVISE NOTED IS NEW. ALL MATERIALS AND EQUIPMENT SHALL OF THE FORM 8144 AND AS AMENDED. ALL NEW TRAFFIC CONTROL EQUIPMENT SHALL OF BE FIFTD LOCATED AND APPROVED BY THE ENGINEER AND THE TOWN PRIOR, IN CONSTRUCTION.

2- ALL CABLING SHALL BE NEW AND INSTALLED WITHHUT SPLICES.

3. SPAN WIRE SHALL BE 3/8 . 120 DIA. EXTRA STRENGTH 15,400 LBS. MAXIMUM BREAKING STRENGTH.
4. CX TYPE 3 REDESTRIAN SIDEWALK RAMES

CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" (1 800-922-4455) BRIOR TO ANY EXCAVATIONS ALL VORK TO BE COORDINATED WITH THE TOWN OF WALLINGFORD POLICE DEPARTMENT, CONTACTS OFFICER R. A. DOLL 294-2250.

THE CUNTRACTUR WILL SCHEDULE HIS CONSTRUCTION WORK SO THAT PUSITEME TRAFFIC CONTROLS (STOP SIGNS, TEMPURARY SIGNALS LIG.) APE IN PLACE AND OPERATIONAL AT ALL TIMES.

THE CONTRACTOR SHALL SUFFLY, INSTALL AND MAKE FULLY OPERATIONAL THE FOLLOWING:

(A) 28' (8.53 METERS) STEEL SPAN POLE ON STANDARD SPAN POLE HOUNDALTON WITH POLE MOUNTED 2

ADA APPROVED PUSH BUTTON AND SIGN ASSEMBLY AND 2 DNE-WAY PEDESTRIAN SIGNALS.

(B) PASTALL TOWN APPRIED CSTANDARD FULL ACTUATED 8 PHASE CONTROLLER ON NEW TYPE IV CONTROLLER FOUNDATION CONTROLLER SHALL BE EQUIPPED WITH INTERNAL EMERGENCY VEHICLE. THE CONTROLLER SHALL BE EQUIPPED WITH ALL NEEDS SARY AND/OR REQUIRED COMPONENTS AND INTERNAL COMMUNICATION MUDDILES FOR INCLUSION IN AND FULL COMPATIBLE ITY WITH THE TOWN'S EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM. THE CONTROLLER TYPE IV CARINET SHALL BE EQUIPPED WITH A WALLINGFORD FLECTRIC DIVISION APPROVED METER SOCKET AND A WEATHERPROOF DISCONNECT. THE CONTRACTOR SHALL INSTALL A 3 X5 CONCRETE SIDEWALK (PAD) ON THE CABINET.

(C) INSTALL 85 0° CZ 438 METERS) ALUMINUM PEDESTAL ON TYPE I PEDESTAL FOUNDATION, WITH ADA APPROYED PUSH BUTTON AND SIGN ASSEMBLY, AND TWO WAY PEDESTRIAN STOMAL.

(D) INSTALL TYPE OF CONCRETE HANDHELES, CTYPICALLY 1'-0' (D. 305 METERS) FROM NEW CURB, UNLESS OF HERWISE NOTED

IN TALL TUWN/STATE APPROVED AUDIBLE FEDESTRIAN SIGNAL WITH ADJUSTABLE PHEDSTAT IN CONTROLLER CABINET.

(F) UTILITY POLIC BEW 1734 TO BE REPLACED BY DIFFERS AS NEW POLIC BEW #84 AND TO BE GUYED.
BY WALLINGFORD GLECTRIC DIVISION.

(W) THETALL 30" X30" CONCRETE HANDHOLL, ALL DIHERS TO BE TYPE II...

ELECTRICAL SERVICE THE CONTROLLER SHALL BE COORDINATED WITH THE WALLINGFURD ELECTRICAL DIVISION THE CONTRACTOR SHALL PAY ALL FEES AND COSTS FOR OBTAINING, CONTACT MR. JAMES HERAINEY AT WALLINGFORD ELECTRIC DIVISION (203) 265 0308 TO CHURDINATE...

THE DELICOM RECEIVERES) SHALL BE MOUNTED MID-SPAN IN ACCORDANCE WITH THE MANUFACTURER'S.

RECOMMENDATIONS, AND SHALL BE APPROVED BY AN AUTHORIZED REPRESENTATIVES OF 3-M PRIOR TOLINSTALLATION OR TURN-ON. A SEPARATE CO.3 CABLE LOR FACH OPTICAL DETECTIVE SHALL BE
INSTALLED CONSPECTED FOREGIEY LEGIBLE CONTROLLER CABINET

ALL TIGNALS SHALE BE HUNG SO THAT A MINIMUM VERTICAL CLEARANCE DE 16 DET CA 88 META IS MAINTAINED BETWEEN THE FINAL RUADWAY SURFACE AND THE BOTTOM OF THE SIGNALS.

INSTALE 2" RMC STAND DEF ON UTILITY POLE BEV #1/35 AND 34RMC STAND DEF ON NEW BEW # 84

ENSTALL POLE MOUNTED SERVICE DISCONNECT TO FEET ABOVE THE ORDIND ON POLE BEWALTSS.

5. CENTACT NOTED UTILITY COMPANIES A MENIMUM DE TWO C2) WEEKS PRIOR TO CONSTRUCTION.

16 ALL TRAFFIC SIGNAE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH CONNECTES AND

WALL INGFORD'S STANDARDS

THE CUNTRACTOR SHALL RESTORE THE FASEMENT AREA ON THE SOUTHWEST CORNER OF INTERSECTION OF THE STATE SATISFACTION OF TOWN OF WALLINGTORD HOUSING AUTHORITY. THIS WORK WILL INCOME ALL NECESSARY REGRADING, LEAMING, SEEDING AND TURF ESTABLISHMENT,

18. ATTACH SPANWIRE TO NEW UTILITY POLE BEW #84 AT APPROXIMATELY 22.5 FEET ABOVE THE GREWN .

19. ANCHOR BUETS FOR POLE FOUNDATIONS SHALL BE SET SQUARE TO THE SPAN POLE SUCH THAT E TWO BOLIS ARE IN TENSION AND TWO ARE IN COMPRESSION.

UTILITY/PROJECT CONTACTS
TOWN / POLICE R A DOLL 294-2250
SNET BOB BOUFFARD (800 748-1692
ATA PEN TARINI (203)269-2565
WALLINGFORD CLECTRIC ART DUTRA (203)265-008
TOT CABLE ABAM BURR (203)483-2300
DESTONER M.M. I., JOHN P. THOMPSON (203)271 1773

LIWNERS NAME

WALLINGFORD

TOWN: THE

STATE OF CENNECTICUT

DEPARTMENT OF TRANSPORTATION

BUPEAU OF ENGINEERING & HIGHWAY OPERATIONS

DIVISION OF TRAFFIC ENGINEERING

Quinnipioc St. & Washington St.

TRAFFIC CONTROL SIGNAL.

.UV

INI

GAP

TECTORS

[™]

PHASE 2

-

PHASE 3

♣. €-←

PHASE 4

4

STATE OF CONNECTICUT - DEPT. OF TRANSPORTATION

FED. AID PROJ. NO. YEAR ROUTE SHEET TOTAL PROJ. NO. SHEET F.H.W.A. REGION NO. STATE STPN-2565 (2) 148-163 1997 CONN

RAILROAD PRE-EMPTION NOTES

RAILROAD PRE-EMPTION SHALL TAKE PRECEDENCE OVER ALL OTHER OPERATIONS

RAILROAD PRE-EMPTION (NORMAL OPERATION)

- 1. TRAIN ENTERS TRACK CIRCUIT R.R. PROVIDES IMMEDIATE PRE-EMPTION CIRCUIT TO THE TRAFFIC SIGNAL CONTROLLER CABINET.
- THE TRAFFIC SIGNAL CONTROLLER IMMEDIATELY ADVANCES THE SEQUENCE TO THE TRACK CLEARANCE PHASE VIA THE PROPER YELLOW AND RED CLEARANCE INTERVALS. IF PEDESTRIAN PHASE IS IN OPERATION PHASE WILL BE IMMEDIATELY TERMINATED.
- 3. THE INTERNALLY ILLUMINATED TURN RESTRICTION SIGNS WILL BE ILLUMINATED IMMEDIATELY WITH THE
- THE TRACK CLEARANCE PHASE WILL TERMINATE AND THE TRAFFIC CONTROLLER WILL HOLD IN THE RAILROAD PRE-EMPTION HOLD PHASE.
- THE RAILROAD FLASHING LIGHTS WILL COMMENCE OPERATION 17 TO 22 SECONDS INTO THE TRACK CLEAR THE RAILROAD TASHING UPON WHAT INTERVAL THE TRAFFIC SIGNAL CONTROLLER IS IN WHEN THE PRE-EMPTION CALL IS RECEIVED. STANDARD R.R. TIMING FOR BELLS, LIGHTS AND GATES WILL COMMENCE A MINIMUM 29 SECONDS PRIOR TO THE TRAIN ENTERING THE CROSSING
- WHEN THE TRAIN HAS LEFT THE CROSSING AND THE TRACK CIRCUIT, THE RAILROAD DEVICES AND TURN RESTRICTION SIGNS SHALL DEACTIVATE AND THE TRAFFIC CONTROL SIGNAL SHALL RETURN TO NORMAL OPERATION, PHASE 2.

RAILROAD PRE-EMPTION (FAIL SAFE FLASHING OPERATION)

- TRAIN ENTERS TRACK CIRCUIT R.R. PROVIDES IMMEDIATE PRE-EMPTION CIRCUIT TO THE TRAFFIC SIGNAL CONTROLLER CABINET.
- THE FLASHING OPERATION IMMEDIATELY CHANGES TO A SOLID RED ON FACE 6, FACES 1 AND 2 REMAIN FLASHING YELLOW AND FACES 3, 4 AND 5 REMAIN FLASHING RED AND WILL HOLD IN THIS MODE.
- THE INTERNALLY ILLUMINATED TURN RESTRICTION SIGNS WILL BE ILLUMINATED IMMEDIATELY WITH THE TRAFFIC SIGNAL PRE-EMPTION.
- 4. THE RAILROAD FLASHING LIGHTS WILL COMMENCE OPERATION 23 SECONDS AFTER THE RECEIPT OF THE PRE-EMPTION CALL STANDARD R.R. TIMING FOR BELLS, LIGHTS AND GATES WILL COMMENCE A MINIMUM 29 SECONDS PRIOR TO THE TRAIN ENTERING THE CROSSING.
- WHEN THE TRAIN HAS LEFT THE CROSSING AND THE TRACK CIRCUIT, THE TRAFFIC SIGNAL CONTROLLER SHALL RETURN TO FLASHING YELLOW ON FACES 1 AND 2, FLASHING RED ON FACES 3, 4, 5 AND 6 AND THE RAILROAD DEVICES SHALL DEACTIVATE.

TECHNICAL NOTES CONTINUED

CONTROLLER SHALL IMMEDIATELY ADVANCE OUT OF ANY GREEN, INCLUDING MIN GREEN, INTO CLEARANCE INTERVALS GOING TO PRE-EMPTION, AND THEN GO DIRECTLY TO RAILROAD TRACK CLEAR PHASE DURING RAILROAD PRE-EMPTION.

WHEN RAILROAD PRE-EMPTION OCCURS DURING THE CLEARANCE INTERVAL OF ANY PHASE, THE CONTROLLER TO DROP NEXT PHASE CALL, FINISH TIMING THE CLEARANCE INTERVALS GOING TO PRE-EMPTION, AND THEN GO DIRECTLY TO RAILROAD TRACK CLEAR PHASE.

PEDESTRIAN TIMING TO IMMEDIATELY ADVANCE OUT OF THE WALK AND PED CLEARANCE INTERVAL INTO THE CLEARANCE INTERVAL TIMINGS GOING TO PRE-EMPTION, THEN GO IMMEDIATELY TO RAILROAD

POLICE BOX MANUAL SHALL BE ABLE TO BE PRE-EMPTED BY RAILROAD CIRCUIT. THE POLICE BOX MANUAL CONTROL SHALL REMAIN INOPERATIVE FROM THE TIME A PRE-EMPTION CALL IS RECEIVED UNTIL THE CONTROLLER LEAVES THE RAILROAD HOLD PHASE AND RETURNS TO PHASE 2 GREEN.

ANY CHANGE IN THE CLEARANCE INTERVALS DENOTED ON THIS PLAN MAY REQUIRE A MODIFICATION OF THE RAILROAD TRACK CIRCUIT.

THE CONTROLLER SHALL BE A "MENU DRIVEN" TYPE WITH INTERNAL RAILROAD PRE-EMPTION.

- RAILROAD FLASHING LIGHTS TO START 23 SECONDS INTO THIS INTERVAL TRAFFIC SIGNAL TO BE IMMEDIATELY FORCED OUT OF CLOSED LOOP COORDINATED OPERATION UPON RECEIPT OF RAILROAD PRE-EMPTION CALL.
- $\ensuremath{\mathfrak{G}}$ flashing operation to revert to RR pre-empt from fail safe flash upon receipt of RR pre-emption call

GENERAL PRE-EMPTION NOTES

- 1. RAILROAD PRE-EMPT OPERATIONS SHALL BE MAINTAINED AT ALL TIMES DURING BOTH ACTIVE AND NON CONSTRUCTION TIME PERIODS.
- IF FOR ANY REASON NORMAL RAILROAD PRE-EMPT OPERATIONS ARE INTERRUPTED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE WALLINGFORD POLICE DEPARTMENT, THE CONNECTICUT DEPARTMENT OF TRANSPORTATION AND AMTRAK.
- ANY MODIFICATIONS TO THESE TIMINGS AND RAILROAD PRE-EMPTION OPERATIONS MUST BE APPROVED BY THE TOWN, STATE AND AMTRAK.
- 4. ANY WORK ON RAILROAD PROPERTY SHALL BE APPROVED BY AND AUTHORIZED BY AMTRAK.

EMERGENCY VEHICLE PRE-EMPTION NOTES

THE OPTICAL DETECTOR(S) SHALL BE MOUNTED MID-SPAN; IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. A SEPARATE 20/3 CABLE (FOR EACH OPTICAL DETECTOR) SHALL BE INSTALLED (UNSPLICED) DIRECTLY TO THE CONTROLLER CABINET.

UTILITY/PROJECT CONTACTS TOWN / POLICE: R. A. DOLL: 294-2250 SNET: BOB BOUFFARD: (800)748-1693 AT&T: RON TARINI: (203)269-2565 WALLINGFORD ELECTRIC: ART DUTRA: (203)265-0308 AMTRAK: JOE HOFBAUER: (215)349-1038 TCI CABLE: ADAM BURR: (203)483-2300 ESIGNER: M.M.I., JOHN P. THOMPSON (203)271-1773

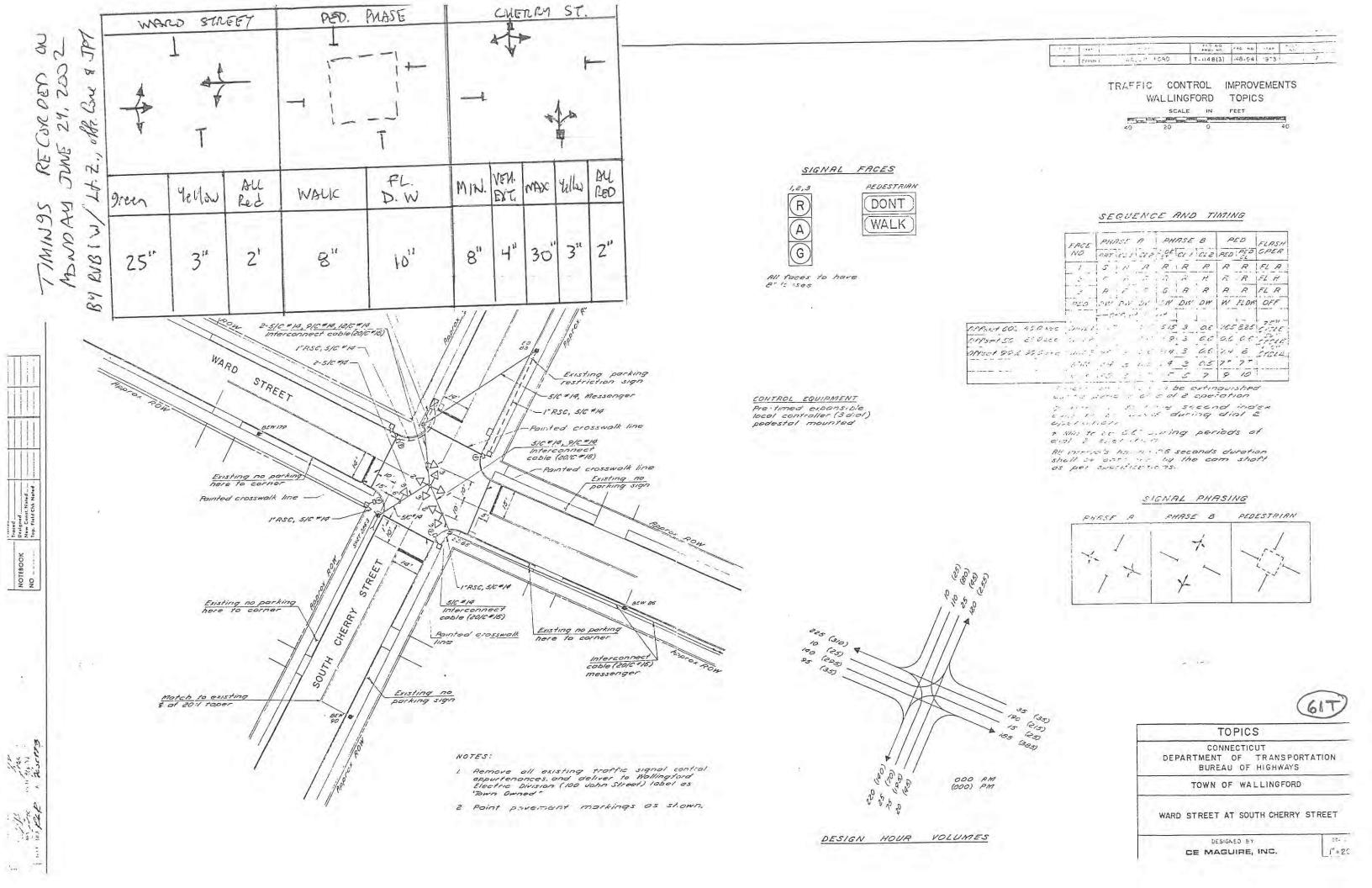
SEE SHEET 32 FOR CONSTRUCTION NOTES

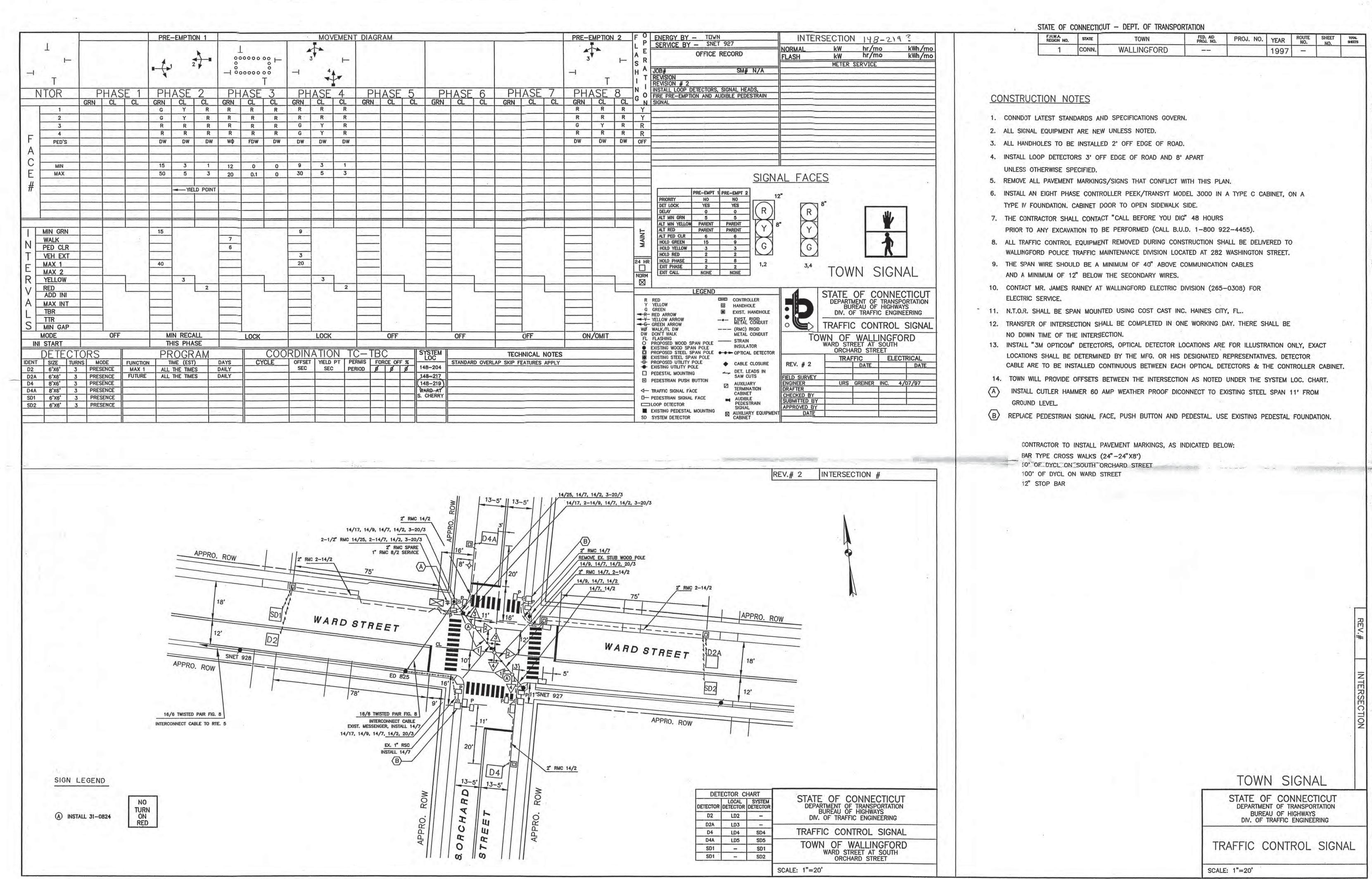
STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING & HIGHWAY OPERATIONS DIVISION OF TRAFFIC ENGINEERING

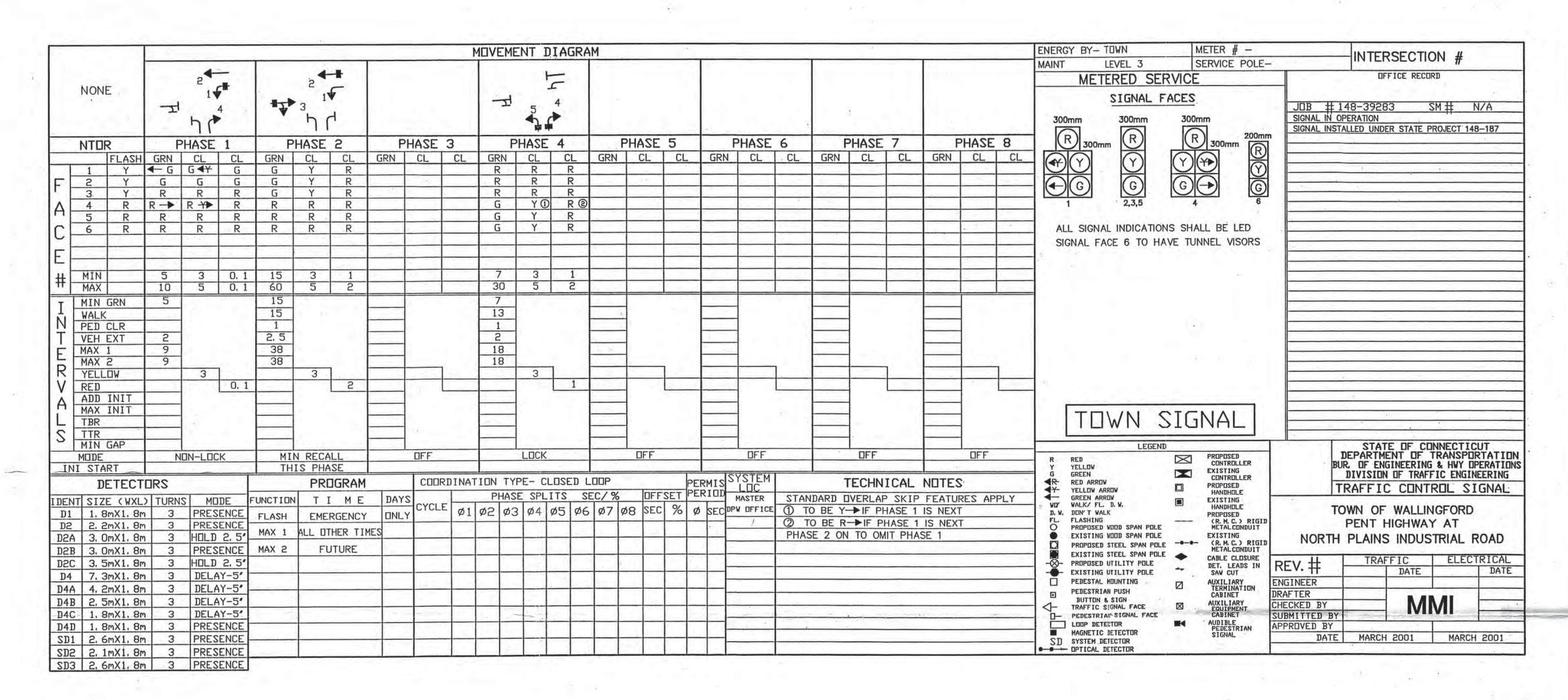
TRAFFIC CUNTROL SIGNAL

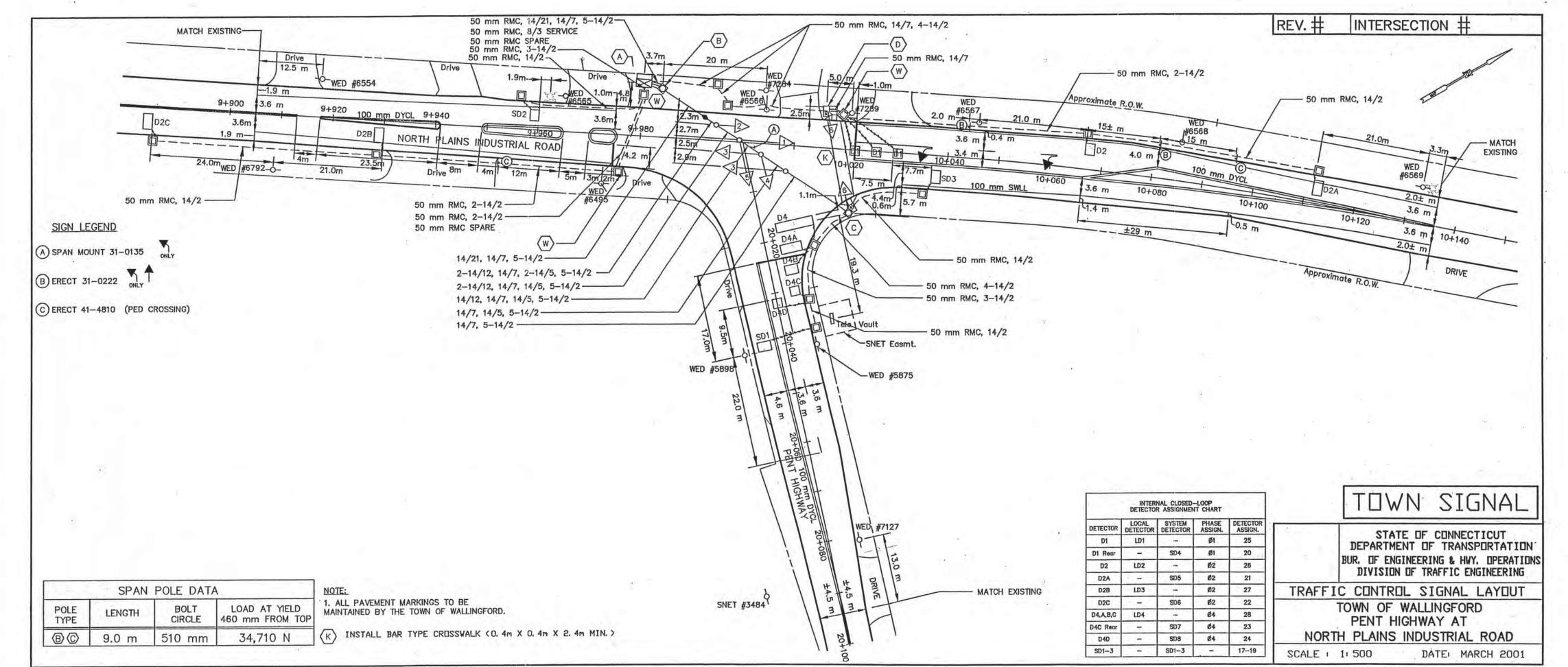
DWNERS NAME TOWN OF WALLINGFORD

AND QUINNIPIAC STREET









ALL TRAFFIC SIGNAL EQUIPMENT IS NEW.

ALL MATERIALS AND EQUIPMENT SHALL CONFORM TO FORM 815 AND AS AMMENDED.

STAKE ALL R.O.W. PRIOR TO EXCAVATION. ALL WORK TO BE WITHIN THE EXISTING R.O.W. OR WITHIN THE LIMITS OF EASEMENTS.

ALL WORK TO BE COORDINATED WITH THE TOWN OF WALLINGFORD LEGAL TRAFFIC AUTHORITY.

CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION (1-800-922-4455).

ALL NEW PAVEMENT MARKINGS SHALL BE CONNDOT APPROVED EPOXY RESIN TYPE I PAVEMENT MARKINGS. ALL STOP BARS TO BE 300 MM WIDE.

TWO WEEKS PRIOR TO INSTALLATION THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES.

INSTALL HANDHOLES APPROX. 0.3 METERS BEHIND CURB OR EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.

SEGMENTED LOOPS TO BE SPLICED IN SERIES.

TRAFFIC SIGNAL CABLE CLOSURE SHALL BE INSTALLED ON THE SPAN \pm 1.5 METERS FROM THE CURB LINE.

INSTALL LOOP DETECTORS IN BASE COURSE OR EXISTING PAVEMENT 0.9 METERS OFF EDGE OF ROAD AND 2.4 METERS APART UNLESS OTHERWISE NOTED.

CABINET DOOR TO OPEN FIELD SIDE.

ANCHOR BOLTS FOR SPAN POLE FOUNDATION SHALL BE SET SQUARE WITH THE SPAN POLE SUCH THAT TWO BOLTS ARE IN COMPRESSION AND TWO ARE IN TENSION.

SIGNAL APPURTENANCES (MAST ARMS, SPAN POLES, PEDESTALS, AND HAND HOLES) WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE FIELD LOCATED TO PROVIDE A FREE PATH OF NOT LESS THAN 1.0 METER.

CONTRACTOR SHALL ENSURE THE PLACEMENT OF ALL EQUIPMENT IS NOT IN CONFLICT WITH EXISTING WATER OR SANITARY SERVICES.

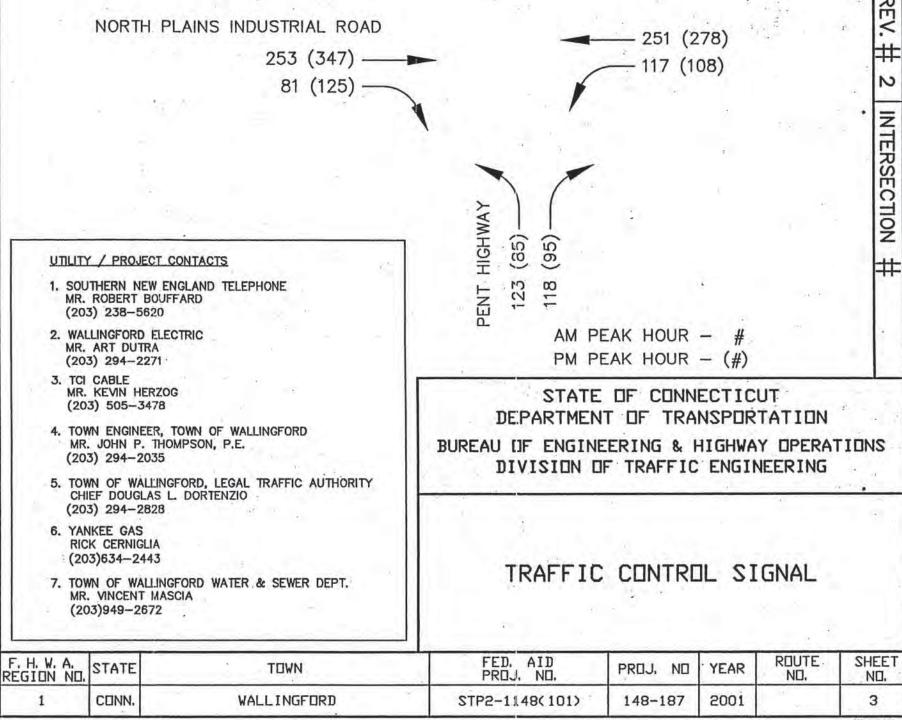
INSTALL 8 PHASE FULL ACTUATED CONTROLLER (PEEK TRANSYT SERIES 3000) WITH SOLATED MONITORING, ELECTRIC METER AND CABINET ON TYPE IV TRAFFIC CONTROL FOUNDATION. INSTALL CONCRETE PAD ADJACENT TO FIELD SIDE OF FOUNDATION.

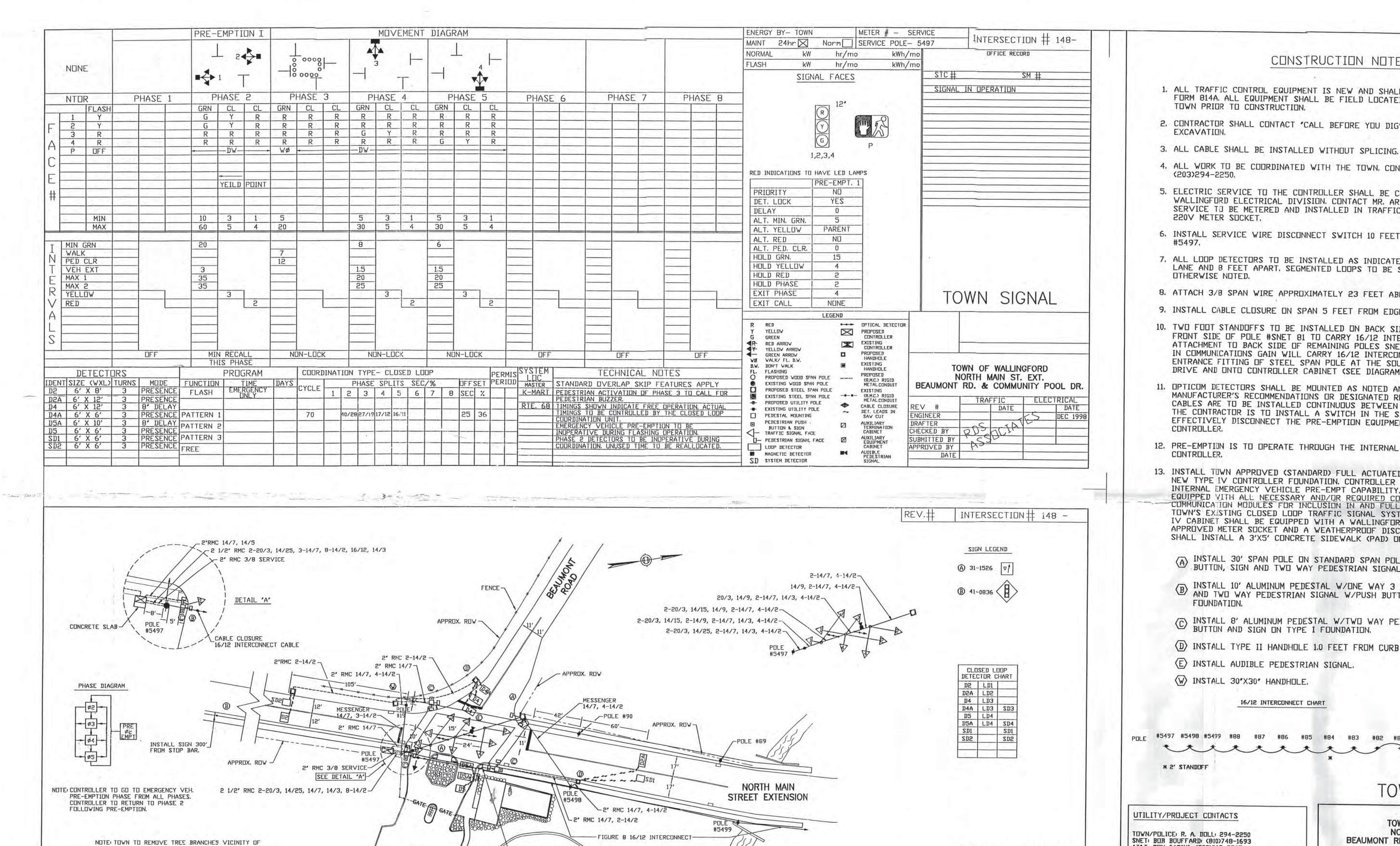
(B) INSTALL SPAN POLE.

© INSTALL SPAN POLE WITH 1-WAY, 3 SECTION POLE MOUNTED TRAFFIC SIGNAL AND PEDESTRIAN PUSH BUTTON AND SIGN.

D INSTALL 2.4m ALUMINUM PEDESTAL, PEDESTRIAN PUSH BUTTON AND SIGN ON TRAFFIC CONTROL FOUNDATION TYPE I.

W INSTALL 750 mm X 750 mm CONCRETE HANDHOLE.





-2' RMC, 2-14/2

COMMUNITY POOL

DRIVE

POLE # 5497.

STEEL SPAN POLE INFORMATION

CONTRACTOR TO INSTALL PAINTED 18' WIDE WHITE

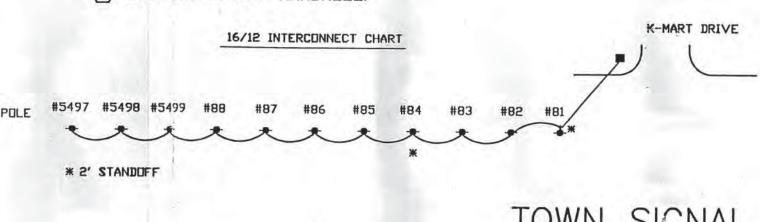
STOP BARS ON NB AND SB NORTH MAIN STREET

EXTENSION APPROACHES TO NEW SIGNAL.

30' LENGTH, S.C. 20", 7,800 LBS LOAD AT YEILD.

CONSTRUCTION NOTES

- 1. ALL TRAFFIC CONTROL EQUIPMENT IS NEW AND SHALL CONFORM TO CONNDOT'S FORM 814A, ALL EQUIPMENT SHALL BE FIELD LOCATED BY THE ENGINEER AND/OR
- 2. CONTRACTOR SHALL CONTACT 'CALL BEFORE YOU DIG' (1-800-922-4455) PRIOR TO
- 4. ALL WORK TO BE COORDINATED WITH THE TOWN, CONTACT RICK DOLL AT
- 5. ELECTRIC SERVICE TO THE CONTROLLER SHALL BE COORDINATED WITH THE WALLINGFORD ELECTRICAL DIVISION. CONTACT MR. ART DUTRA (203)265-0308. SERVICE TO BE METERED AND INSTALLED IN TRAFFIC CONTROL CABINET USING A
- 6. INSTALL SERVICE WIRE DISCONNECT SWITCH 10 FEET ABOVE GROUND AT POLE
- 7. ALL LOOP DETECTORS TO BE INSTALLED AS INDICATED IN CENTER OF TRAVEL LANE AND 8 FEET APART, SEGMENTED LOOPS TO BE SPLICED IN SERIES UNLESS
- 8. ATTACH 3/8 SPAN WIRE APPROXIMATELY 23 FEET ABOVE GROUND AT POLE #5497.
- 9. INSTALL CABLE CLOSURE ON SPAN 5 FEET FROM EDGE OF CURB.
- 10. TWO FOOT STANDOFFS TO BE INSTALLED ON BACK SIDE OF POLE #SNET 84 AND FRONT SIDE OF POLE #SNET 81 TO CARRY 16/12 INTERCONNECT CABLE. ATTACHMENT TO BACK SIDE OF REMAINING POLES SNET # 88, 87, 86, 85, 83, 82 IN COMMUNICATIONS GAIN WILL CARRY 16/12 INTERCONNECT CABLE TO THE ENTRANCE FITTING OF STEEL SPAN POLE AT THE SOUTHWEST SIDE OF KMART DRIVE AND ONTO CONTROLLER CABINET (SEE DIAGRAM).
- 11. OPTICOM DETECTORS SHALL BE MOUNTED AS NOTED AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS OR DESIGNATED REPRESENTATIVE. DETECTOR CABLES ARE TO BE INSTALLED CONTINUOUS BETWEEN EACH OPTICAL DETECTOR. THE CONTRACTOR IS TO INSTALL A SWITCH IN THE SIGNAL CABINET TO EFFECTIVELY DISCONNECT THE PRE-EMPTION EQUIPMENT FROM THE TRAFFIC SIGNAL
- 12. PRE-EMPTION IS TO OPERATE THROUGH THE INTERNAL PRE-EMPTION OF THE
- 13. INSTALL TOWN APPROVED (STANDARD) FULL ACTUATED 8 PHASE CONTROLLER ON NEW TYPE IV CONTROLLER FOUNDATION. CONTROLLER SHALL BE EQUIPPED WITH INTERNAL EMERGENCY VEHICLE PRE-EMPT CAPABILITY, THE CONTROLLER SHALL BE EQUIPPED VITH ALL NECESSARY AND/OR REQUIRED COMPONENTS AND INTERNAL COMMUNICATION MODULES FOR INCLUSION IN AND FULL COMPATIBILITY WITH THE TOWN'S EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM. THE CONTROLLER TYPE IV CABINET SHALL BE EQUIPPED WITH A WALLINGFORD ELECTRIC DIVISION APPROVED METER SOCKET AND A WEATHERPROOF DISCONNECT. THE CONTRACTOR SHALL INSTALL A 3'X5' CONCRETE SIDEWALK (PAD) ON THE CABINET.
 - A INSTALL 30' SPAN POLE ON STANDARD SPAN POLE FOUNDATION W/PUSH BUTTON, SIGN AND TWO WAY PEDESTRIAN SIGNAL.
 - (B) INSTALL 10' ALUMINUM PEDESTAL W/ONE WAY 3 SECTION TRAFFIC SIGNAL AND TWO WAY PEDESTRIAN SIGNAL W/PUSH BUTTON AND SIGN ON TYPE I
 - INSTALL 8' ALUMINUM PEDESTAL W/TWO WAY PEDESTRIAN SIGNAL W/PUSH
 - (D) INSTALL TYPE II HANDHOLE 1.0 FEET FROM CURB OR EDGE OF ROADWAY.



TOWN SIGNAL

SNET: BOB BOUFFARD: (800)748-1693 AT&T: RUN TARINI: (203)269-2565 WALLINGFURD ELECTRIC ART DUTRA (203)265-0308 TCI CABLE: ADAM BURR: (203)483-2300 DESIGNER RDS ASSUCIATES (860)721-9338

TOWN OF WALLINGFORD NORTH MAIN ST. EXT. BEAUMONT RD. & COMMUNITY POOL DRIVE

TRAFFIC CONTROL SIGNAL

OWNER: TOWN OF WALLINGFORD

TOWN SIGNAL

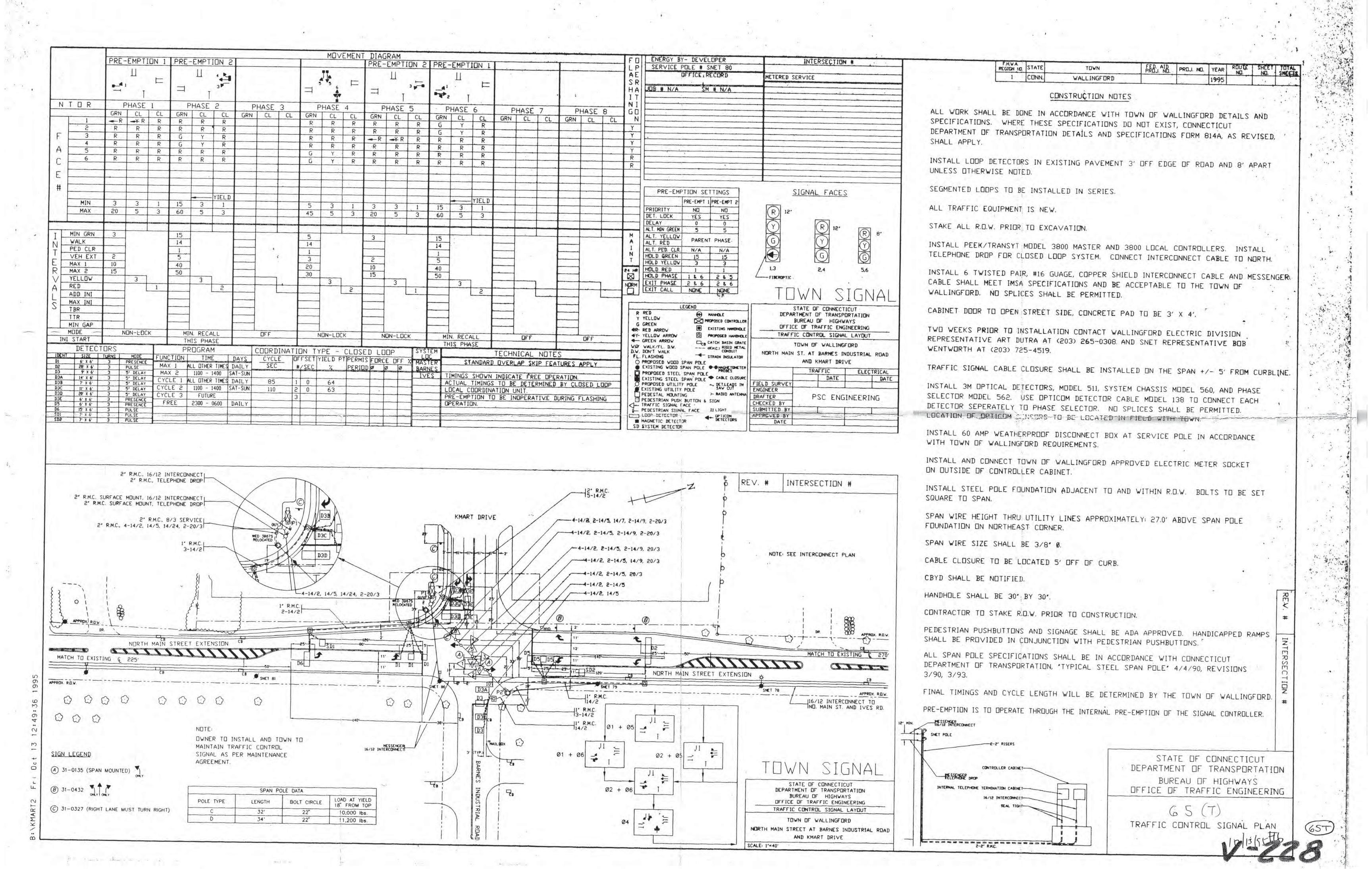
ALL DIMENSIONS IN FEET UNLESS OTHERWISE NOTED

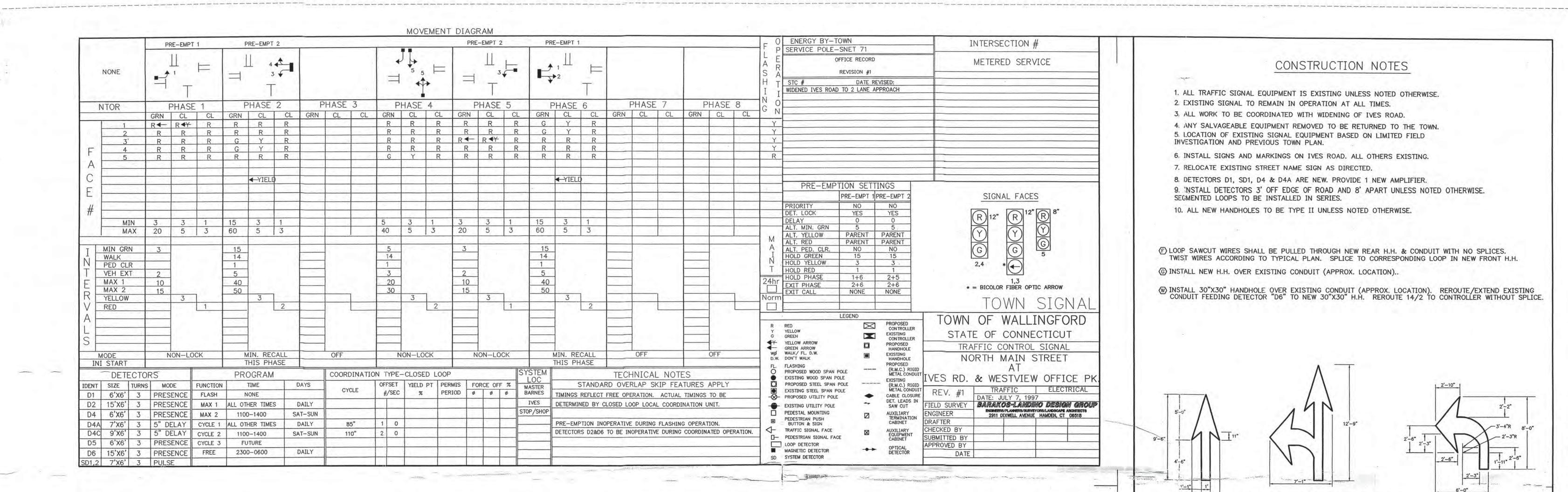
TRAFFIC CONTROL SIGNAL LAYOUT TOWN OF WALLINGFORD

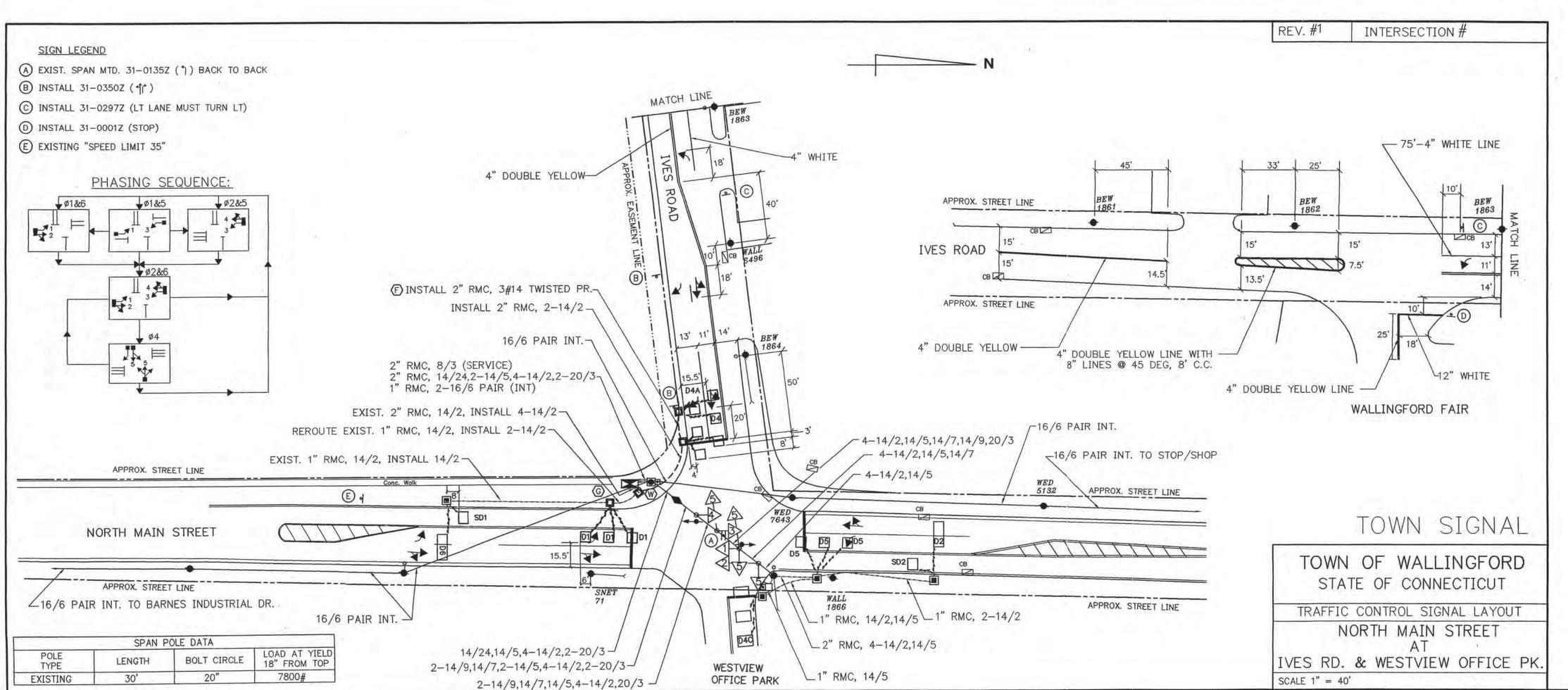
NORTH MAIN ST. EXT. BEAUMONT RD. & COMMUNITY POOL DRIVE

SCALE: 1'=40'-0"

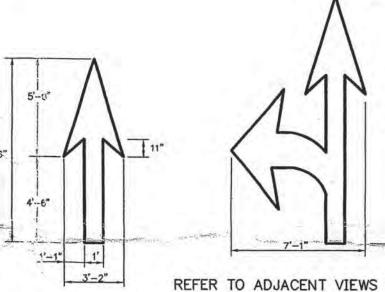
ROUTE SHEET TOWN PROJ. NO YEAR CONN. WALLINGFORD



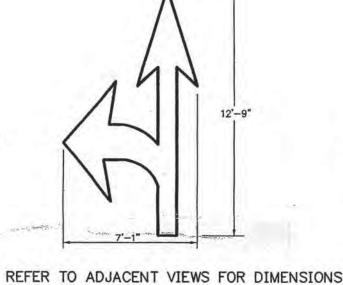


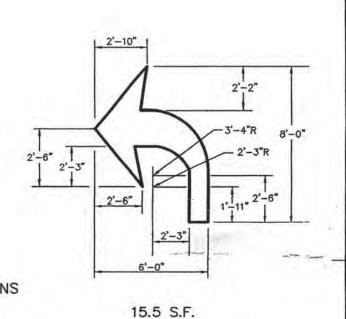


- 1. ALL TRAFFIC SIGNAL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE.
- 2. EXISTING SIGNAL TO REMAIN IN OPERATION AT ALL TIMES.
- 3 ALL WORK TO BE COORDINATED WITH WIDENING OF IVES ROAD.
- 4. ANY SALVAGEABLE EQUIPMENT REMOVED TO BE RETURNED TO THE TOWN. 5. LOCATION OF EXISTING SIGNAL EQUIPMENT BASED ON LIMITED FIELD
- INVESTIGATION AND PREVIOUS TOWN PLAN.
- 6. INSTALL SIGNS AND MARKINGS ON IVES ROAD. ALL OTHERS EXISTING.
- 7. RELOCATE EXISTING STREET NAME SIGN AS DIRECTED.
- 8. DETECTORS D1, SD1, D4 & D4A ARE NEW. PROVIDE 1 NEW AMPLIFIER.
- 9. INSTALL DETECTORS 3' OFF EDGE OF ROAD AND 8' APART UNLESS NOTED OTHERWISE. SEGMENTED LOOPS TO BE INSTALLED IN SERIES.
- 10. ALL NEW HANDHOLES TO BE TYPE II UNLESS NOTED OTHERWISE.
- (F) LOOP SAWCUT WIRES SHALL BE PULLED THROUGH NEW REAR H.H. & CONDUIT WITH NO SPLICES. TWIST WIRES ACCORDING TO TYPICAL PLAN. SPLICE TO CORRESPONDING LOOP IN NEW FRONT H.H.
- (INSTALL NEW H.H. OVER EXISTING CONDUIT (APPROX. LOCATION)...
- W INSTALL 30"X30" HANDHOLE OVER EXISTING CONDUIT (APPROX. LOCATION). REROUTE/EXTEND EXISTING CONDUIT FEEDING DETECTOR "D6" TO NEW 30"X30" H.H. REROUTE 14/2 TO CONTROLLER WITHOUT SPLICE.



12.5 S.F.





PAVEMENT ARROW DETAILS

27.0 S.F.

(ARROWS TO BE CENTERED IN TRAVEL LANE)

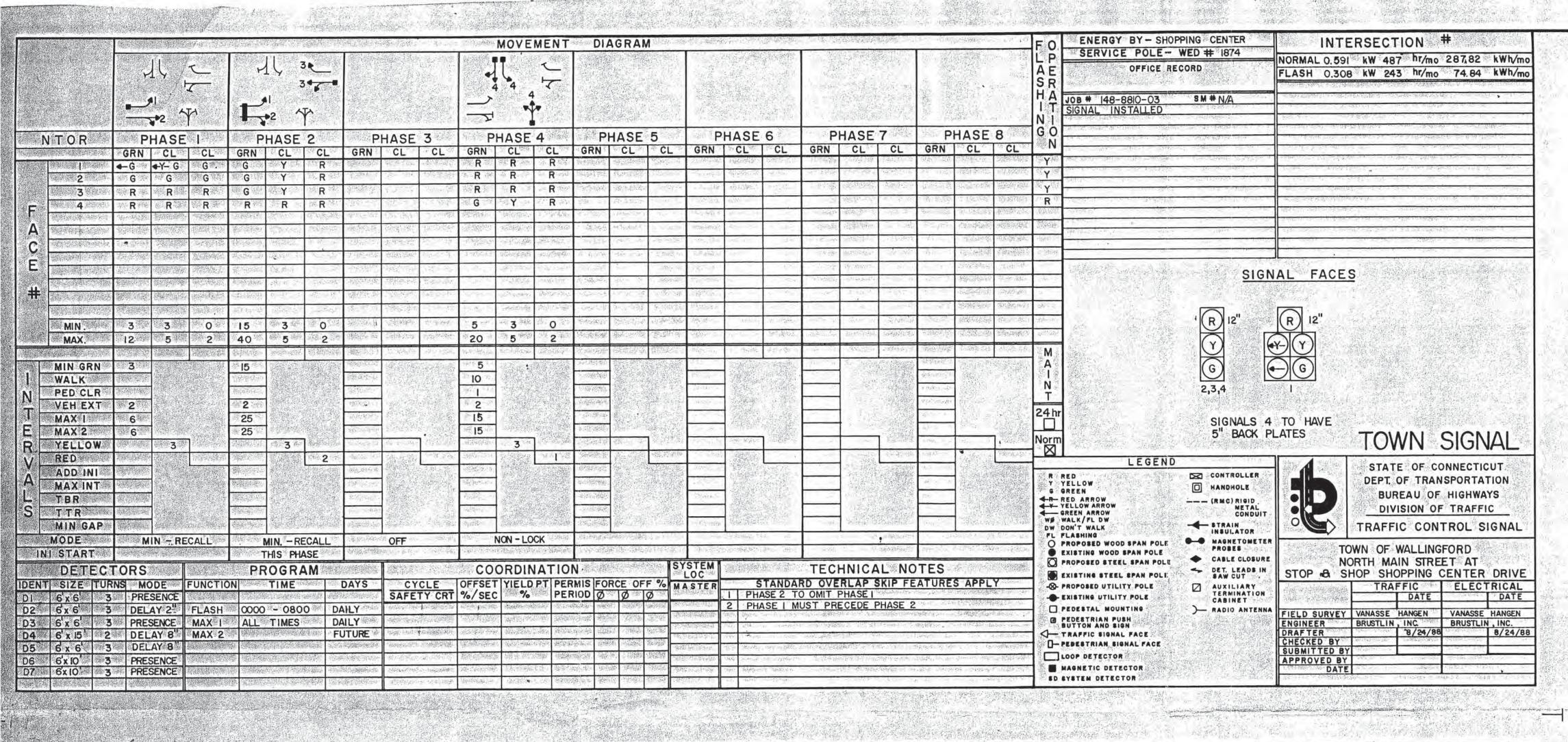
TOWN SIGNAL

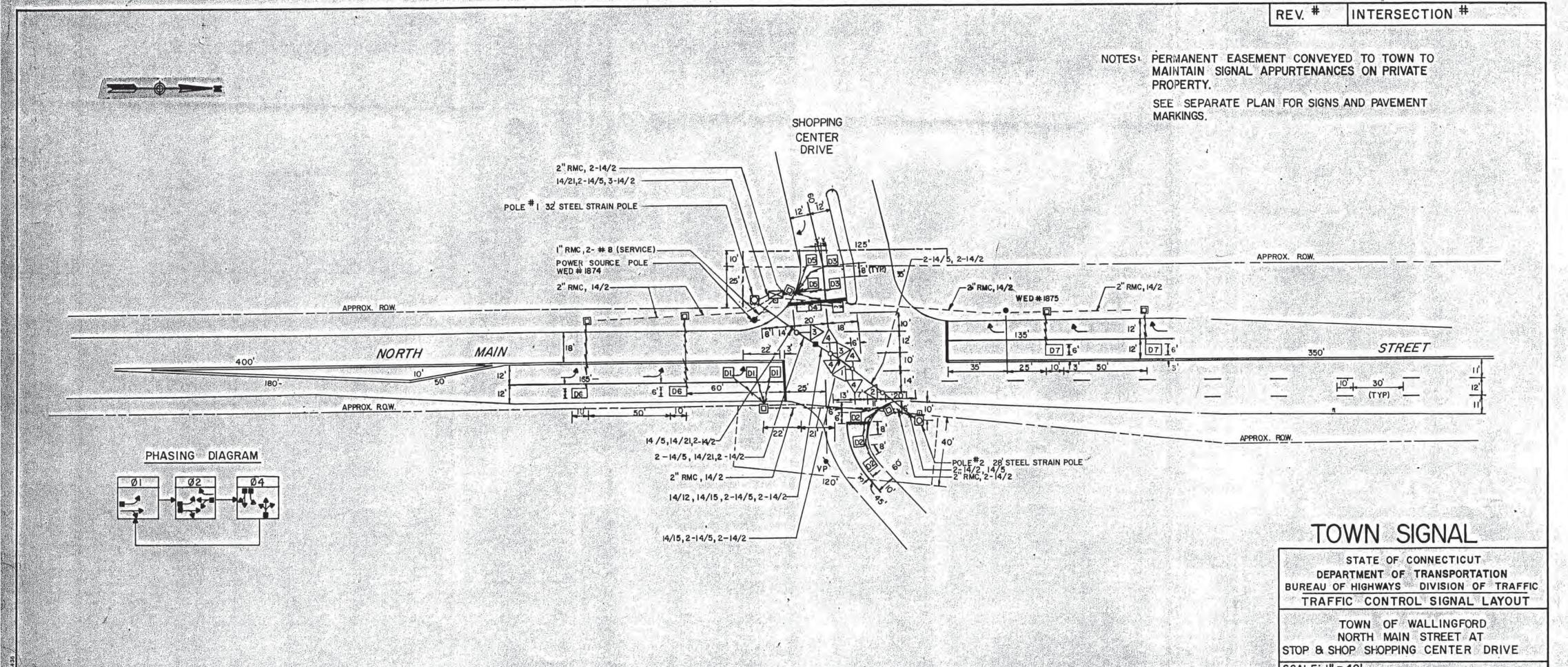
TOWN OF WALLINGFORD STATE OF CONNECTICUT

TRAFFIC CONTROL SIGNAL

						Ť,	
F.H.W.A. REGION NO.	STATE	TOWN	FED. AID PROJ. NO.	PROJ. NO	YEAR	ROUTE NO.	SHEET NO.
1	CONN.	WALLINGFORD			1997	-	

SG503001.DWG





PROJ. NO. YEAR ROUTE SHEET TOTAL NO. NO. SHEETS F. H.W. A. REGION NO. STATE FED. AID PROJ. NO. CONN. 1988 N/A WALLINGFORD 19 43

CONSTRUCTION NOTES

- ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE NEW.
- CONTROLLER SHALL BE 4-PHASE TRANSYT MODEL 1880E LARGE FRAME WITH TIME BASE COORDINATOR MANUFACTURED BY TRANSYT CORPORATION OF TALLAHASSEE, FLA
- DETECTORS SHALL BE CENTERED WITHIN THE LANE AND 8' APART UNLESS OTHERWISE SPECIFIED.
- STRAIN POLES:
 - 32' STEEL STRAIN POLE, Ø GAUGE, FY = 48,000 PSI-ASTM A595, 14"
 DIAMETER, BASE PLATE 2"x 20 1/2"x 20 1/2" ASTM A36, BOLT CIRCLE 20" DIAMETER, ANCHOR BOLTS 2"x 96" ASTM A-675 GR90 OR APPROVED EQUAL.
 - POLE#2: 28' STEEL STRAIN POLE, Ø GAUGE, FY = 48,000 PSI-ASTM A595, I4"
 DIAMETER, BASE PLATE 2"x20 1/2"x 20 1/2" ASTM A36, BOLT CIRCLE -20" DIAMETER, ANCHOR BOLTS 2"x96"-ASTM A-675 GR90 OR APPROVED EQUAL.
- THE CONTRACTOR WILL BE REQUIRED TO PROVIDE AND INSTALL A 60 AMP WEATHERPROOF DISCONNECT ON THE STEEL SPAN POLE. THE DISCONNECT SHALL BE A CUTLER-HAMMER SAFETY SWITCH, HEAVY DUTY SINGLE THROW, 222 NDK NEMA RATED 12 (3R), OR APPROVED EQUAL. ALL WIRING SHALL BE IN COMPLIANCE WITH TABLE 373-6(b) OF THE NATIONAL ELECTRICAL CODE.
- OWNER'S NAME AND ADDRESS: MR. MARVIN M. SHILLER WALLINGFORD DEVELOPMENT CORPORATION C/O M.M. SHILLER ASSOCIATES 767 FIFTH AVENUE, 27 TH FLOOR NEW YORK, NEW YORK 10153

CONTACT INDIVIDUAL

MARVIN M. SHILLER

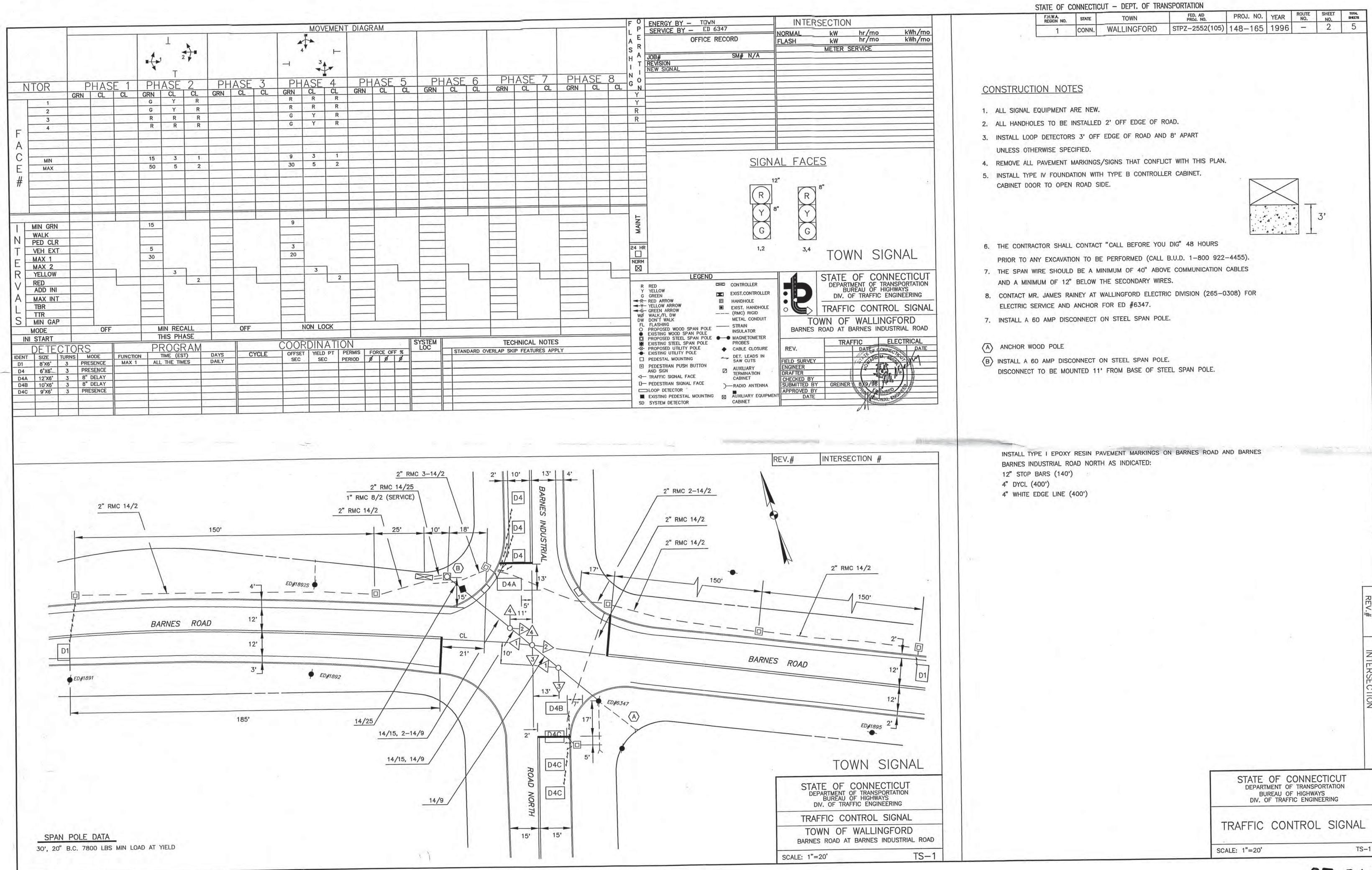
TOWN SIGNAL

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

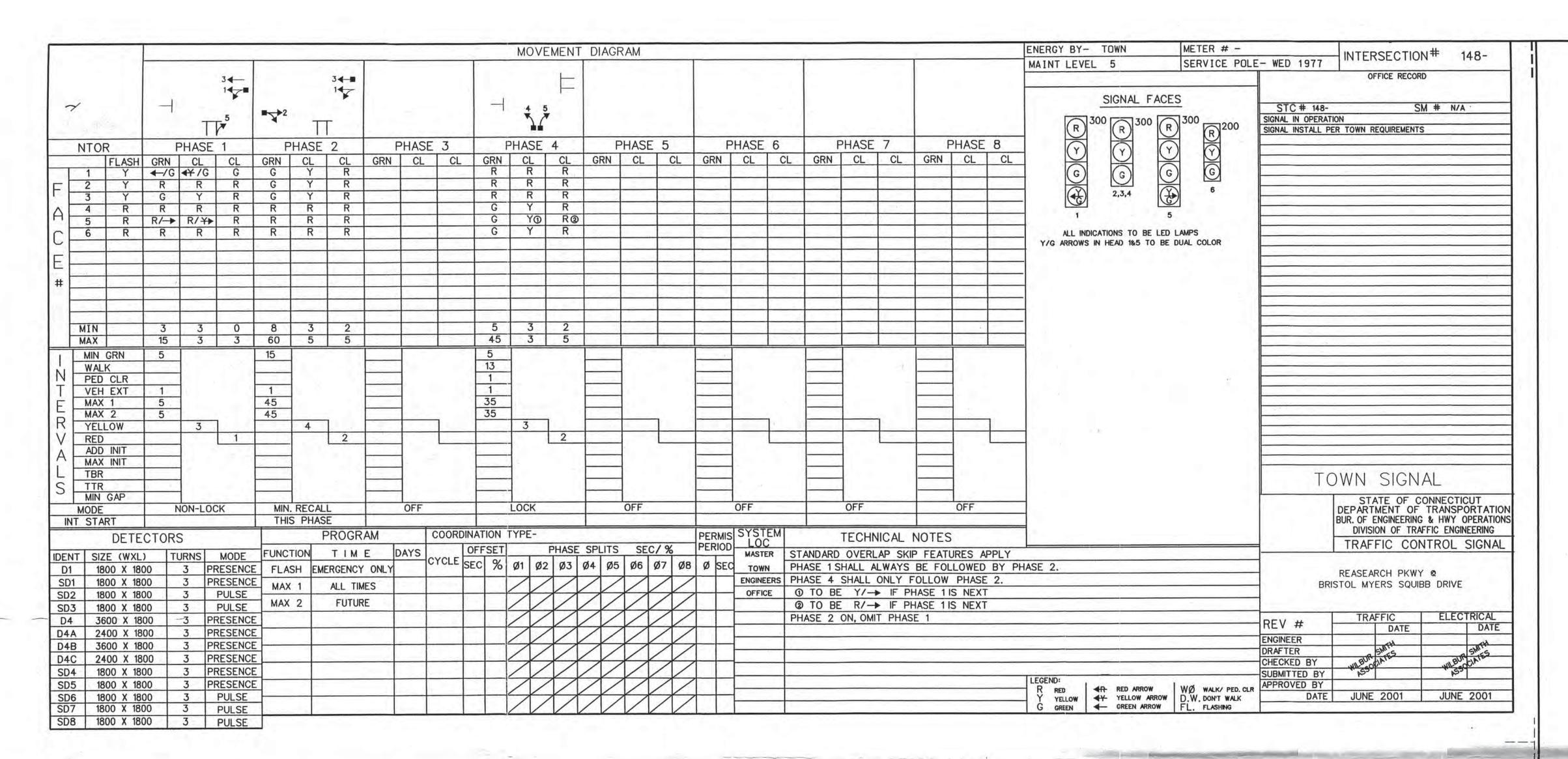
BUREAU OF HIGHWAYS DIVISION OF TRAFFIC

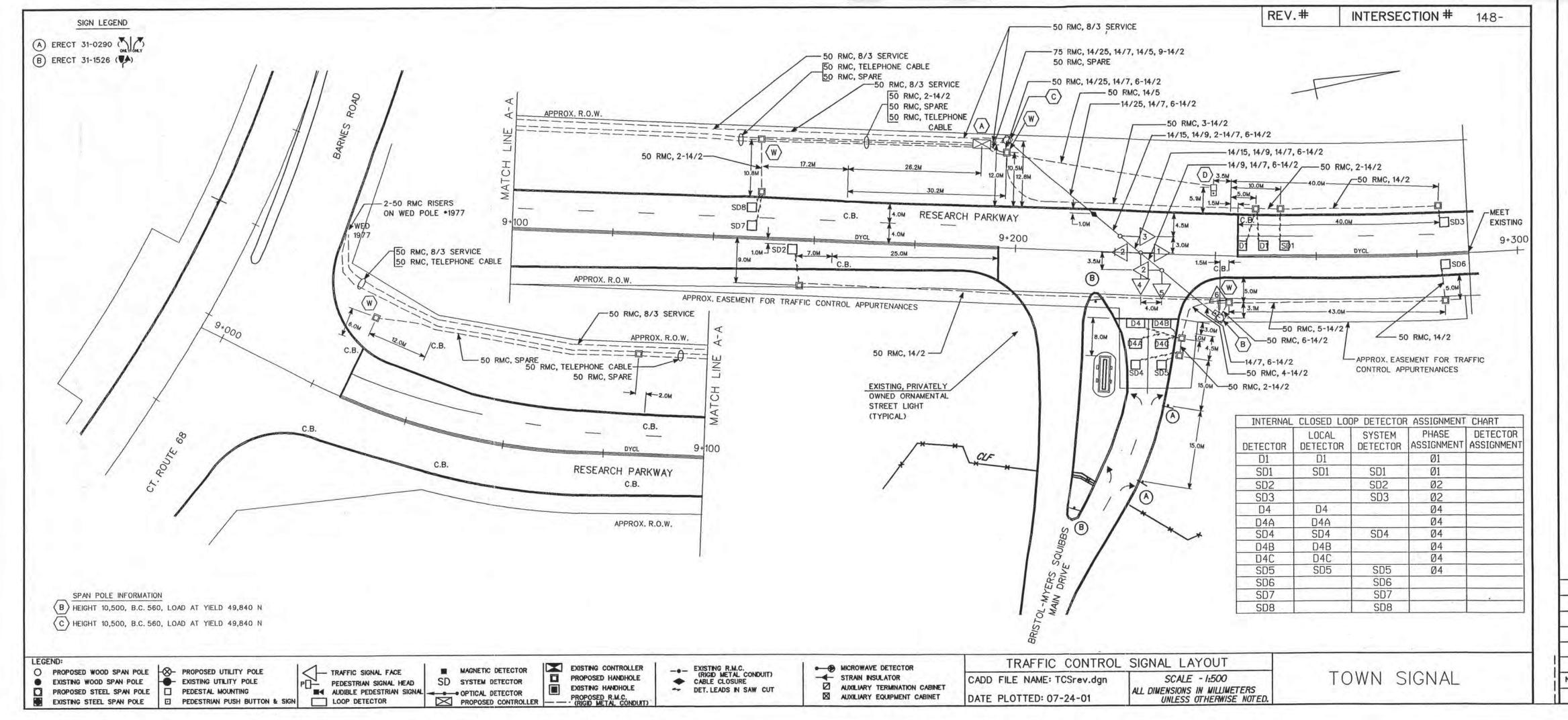
WALLINGFORD

N. MAIN ST./RTE. 68/RTE. 5 TRAFFIC CONTROL SIGNAL PLANS



C/VF-SIGI 8-9-96 2:55:22 pm EST





- 1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE TOWN OF WALLINGFORD AND THE STATE OF CONNECTICUT DEPARTMENT OF
- 2. ALL TRAFFIC SIGNAL EQUIPMENT IS NEW.
- 3. STAKE ALL R.O.W. PRIOR TO EXCAVATION.
- 4. REPLACE DOUBLE YELLOW CENTERLINE AND LANE LINES ON RESEARCH PARKWAY FROM THE NORTH SIDE OF BARNES ROAD (ROUTE 68) NORTHERLY APPROXIMATELY 265 METERS TO STATION 9+290 AND ON THE BRISTOL MYERS SQUIBB SITE DRIVEWAY FROM RESEARCH PARKWAY EASTERLY APPROXIMATELY 40 METERS.
- 5. LOOP DETECTORS ARE TO BE INSTALLED 1.0 METERS OFF THE CURB OR EDGE OF ROAD AND 2.4 METERS APART UNLESS OTHERWISE SPECIFIED.
- 6. INSTALL HANDHOLES APPROXIMATELY 0.3M BEHIND CURB OR EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.
- 7. CABINET DOOR TO OPEN FIELD SIDE.
- 8. IN ACCORDANCE WITH ALL APPLICABLE NEC CODES, THE CONTRACTOR SHALL FURNISH AND INSTALL A 60-AMP WEATHERPROOF DISCONNECT SWITCH MOUNTED ON THE STEEL SPAN POLE AT A HEIGHT OF 3 METERS ABOVE FINISHED GRADE. THE DISCONNECT SHALL BE A CUTLER-HAMMER SAFETY SWITCH, HEAVY DUTY SINGLE THROW, 222 NDK-NEMA RATED 12(3R) DEVICE.
- 9. ALL PAVEMENT MARKINGS TO BE INSTALLED BY CONTRACTOR AS PER PLAN AND IN ACCORDANCE WITH TOWN AND MUTCD STANDARDS. MAINTENANCE OF PAVEMENT MARKINGS WILL BE DONE BY THE TOWN OF WALLINGFORD.
- (W) INSTALL 760 X 760 HANDHOLE. ALL OTHERS TYPE II.
- INSTALL 8 PHASE FULL ACTUATED MASTER/LOCAL CONTROLLER (PEEK (A) TRANSYT SERIES 3000) WITH EXTERNAL ELECTRIC METER AND TELEPHONE COMMUNICATION MODEM IN CONTROLLER CABINET ON TYPE IV TRAFFIC CONTROL FOUNDATION, DOOR TO OPEN FIELD SIDE. INSTALL CONCRETE PAD ADJACENT TO CONTROLLER DOOR.
- B 10,500mm SPAN POLE WITH PEDESTRIAN SIGNAL, PEDESTRIAN PUSH BUTTON AND SIGN.
- 10,500mm SPAN POLE WITH SERVICE DISCONNECT SWITCH.
 FOUNDATION FOR POLE C MUST BE EXTENDED 0.65m (TOTAL DEPTH EQUALS 3650) AND THE TOP SET AT ELEVATION 108.35 m.
- 1,000mm ALUMINUM PEDESTAL WITH PEDESTRIAN PUSH BUTTON AND SIGN.

UTILITY CONTACTS

Surpervisor - O.N.E Southern New England Telephone 1441 North Colony Road Meriden, CT. 06450 (203) 238-5620

Ms. Suzanne P. Paddock Mr. John P. Thompson, P.E. Town Engineer, Town of Wallingford 29 Town Farm Road Wallingford, CT. 06492 (203) 294-2035

Mr. Art Dutra Wallingford Electric 100 John Street Wallingford, CT. 06492 (203) 294-2271

Mr. Leo Luciano Yankee Gas Services 47 Eagle Street Waterbury, CT. 06708 (203) 596-3104

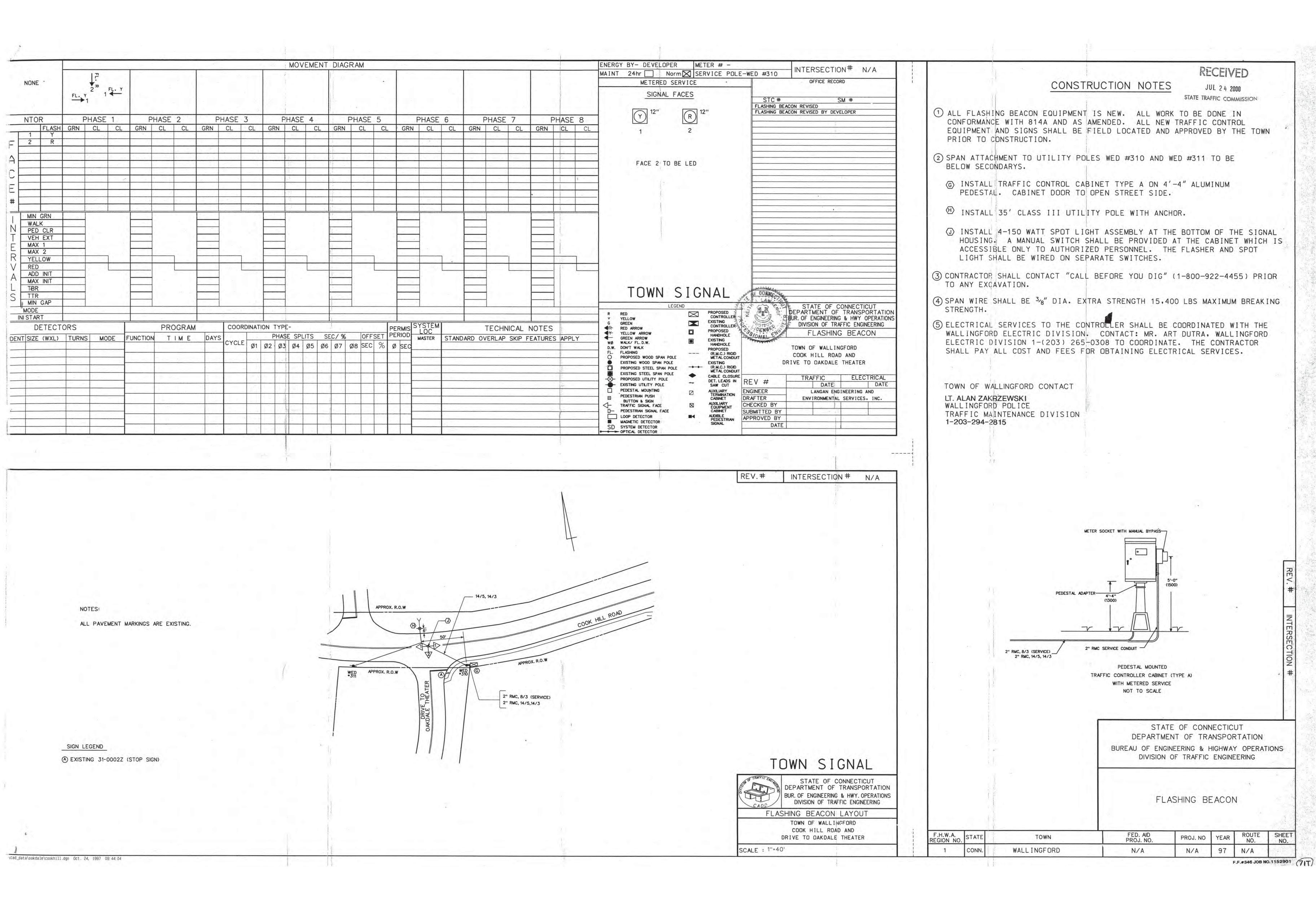
(203) 949-2672

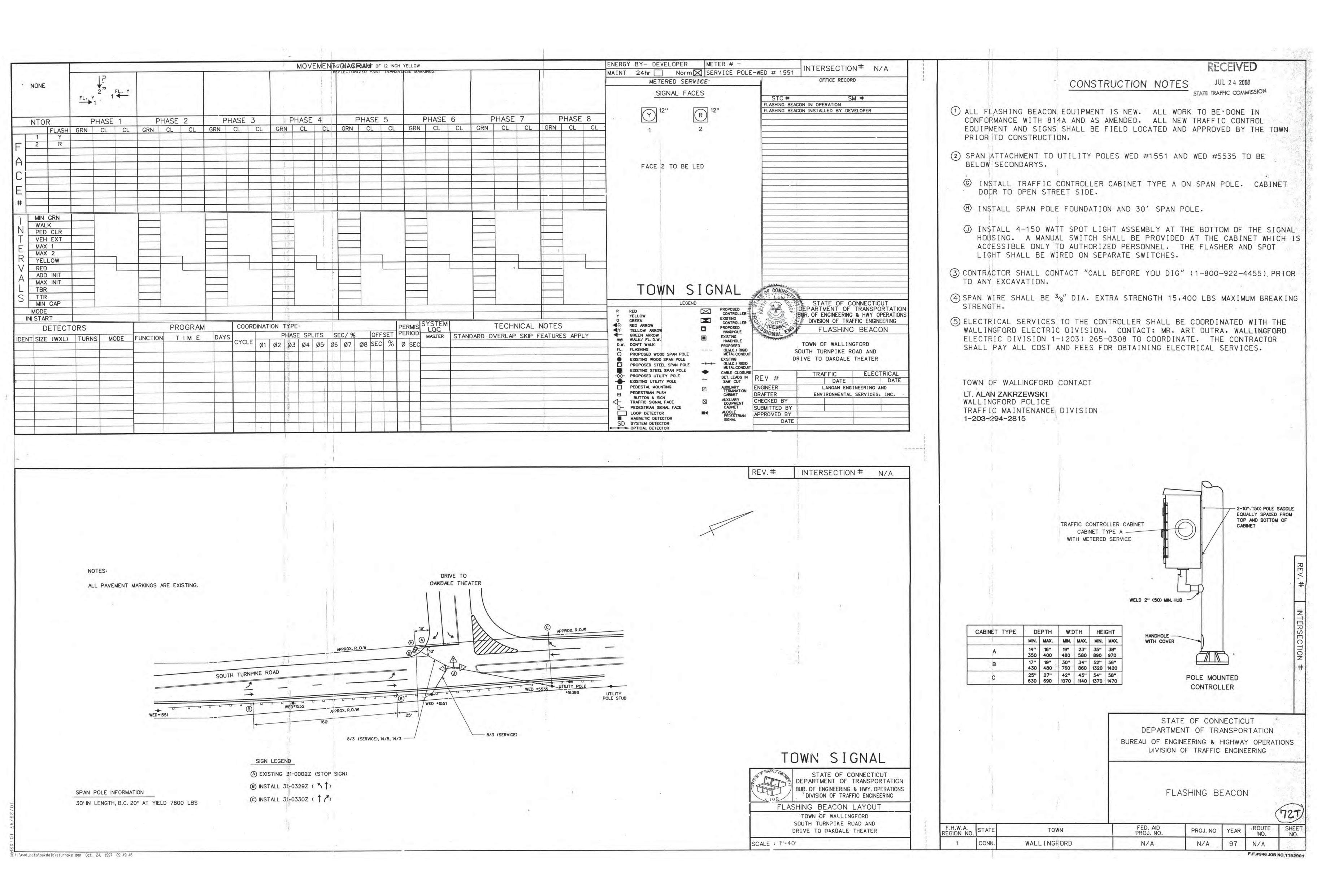
Mr. Dean P. Muratori Construction Manager AT&T Cable Services 222 New Park Drive Berlin, CT. 06037 (860) 505-6248

REVISIONS

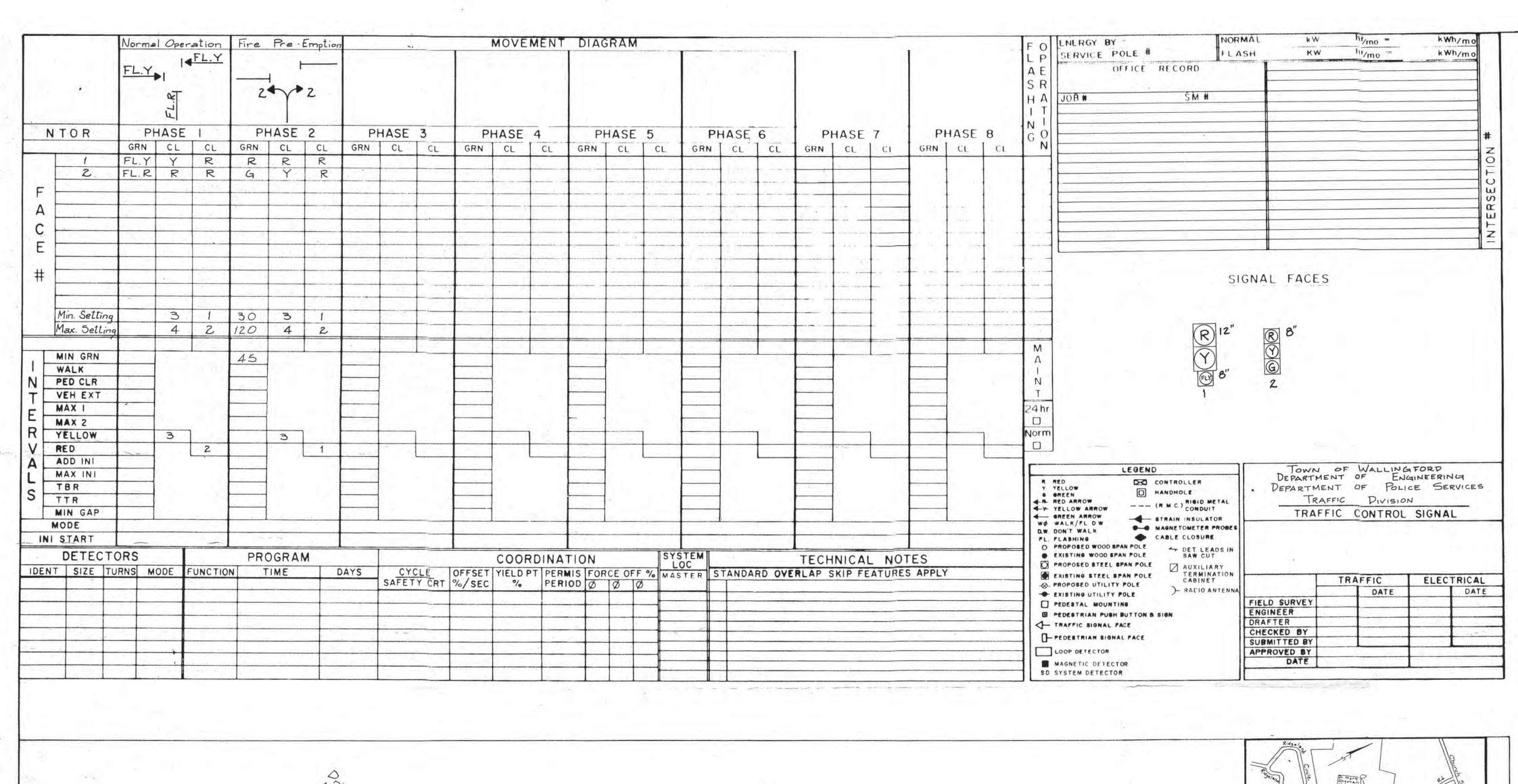
Mr. Vincent Mascia Town Of Wallingford Water & Sewer Dept. 377 South Cherry Street P.O. Box 725 Wallingford, CT. 06492

CONNECTICUT DEPARTMENT OF TRANSPORTATION PROJECT TITLE:
TRAFFIC CONTROL SIGNAL REASEARCH PKWY & BRISTOL MYERS SQUIBB DRIVE WALLINGFORD TOWN SIGNAL DRAWING TITLE:
TRAFFIC SIGNAL
PLAN SHEET NO.: NO. DATE INIT. DESCRIPTION

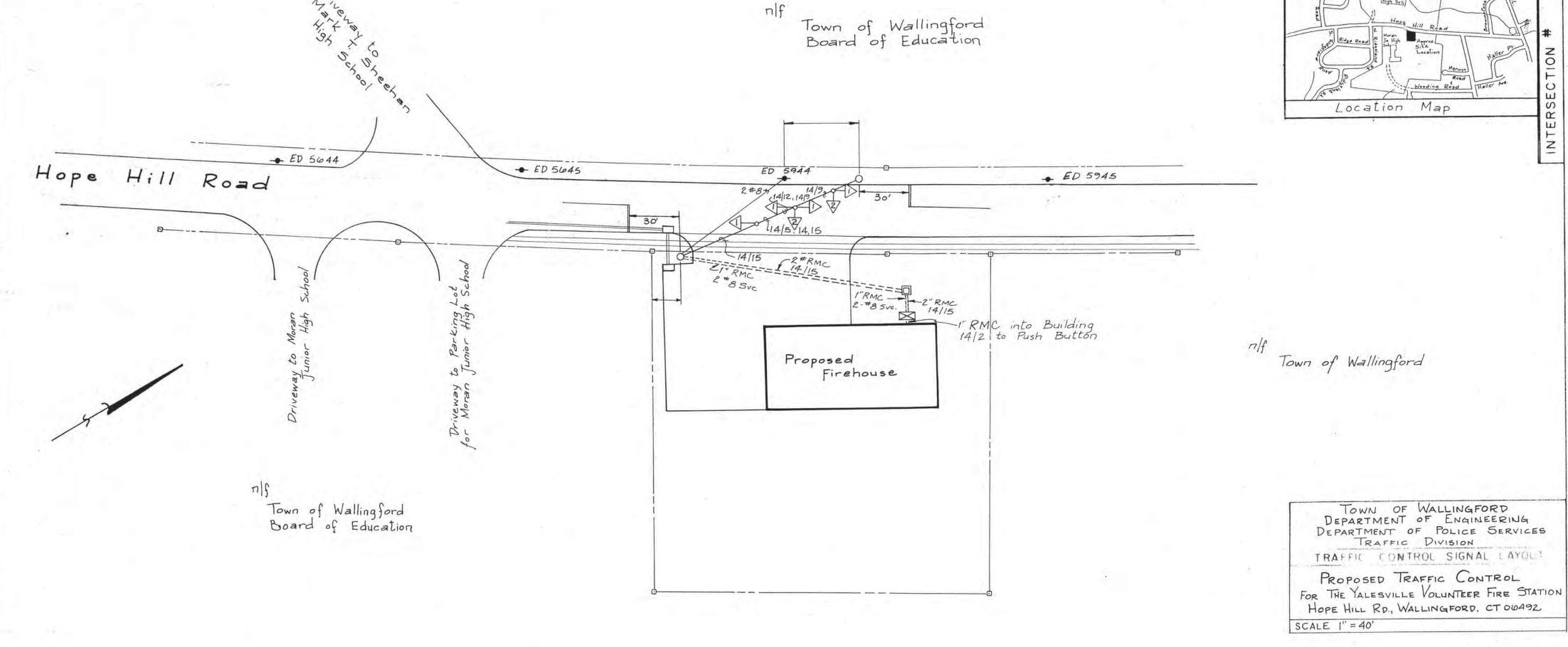




CHERRE M (P Day XX 03 (P) JOAN CB 4 to an (A) Manter 2 JE 2307 AUL -2.40 P.M. 11X15H @ CHARCH SI STAM



1. The Town of Wallingford will provide and install wooden poles with guys.



TOWN OF WALLINGFORD

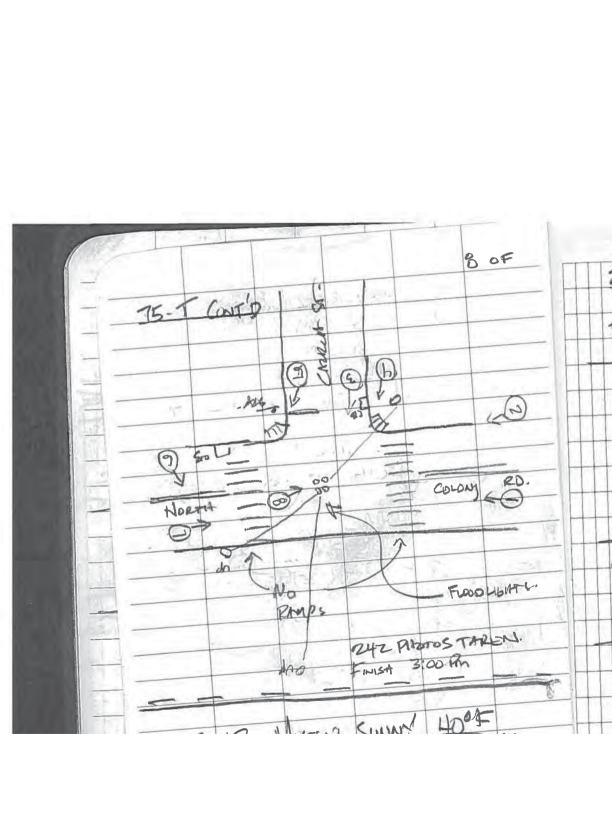
DEPARTMENT OF ENGINEERING

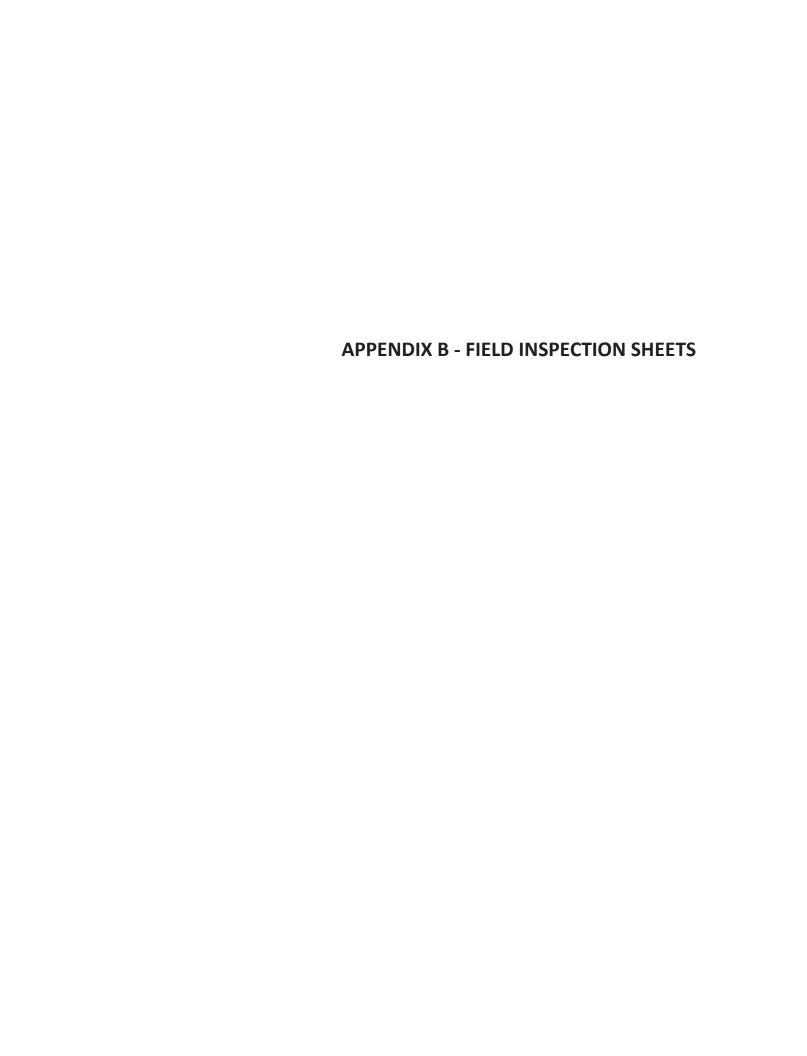
DEPARTMENT OF POLICE SERVICES

TRAFFIC DIVISION

PROPOSED TRAFFIC CONTROL

YALESVILLE VOLUNTEER FIRE STATION HOPE HILL ROAD, WALLINGFORD, CT





4T Field Inspection

SIGNAL EQUIPMENT EVALUATION FORM

CITY/TOWN JOB# DATE 7/2/ LOCATION S. Colon DO helgreens

	-	
DU	9	
(09	L	1
_		

	CONTROLLER CABINET INVENTORY												
Component	Local Controller	Master Controller	CM/MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabinet				
Quantity		NIA	١	5	414	1	4/12	\	1				
Make	Peek		EDI	Worth ster Scrussize		·3M	PPC	PDC	Peek				
Model #	3000 E		NSM-12	KTII-E 535T		752 ophron	955-87UP	SSF-87WP	5523				
Serial #	AIA		732551			AIA	NIA	N/A	NIA				
Serial # Comments:	114		C>2551			P/P	(4))1	10/7	101				

RIY, 6 8" Signil oved as ped signils

	Si	ze
	8"	12"
Red	3	4
Yellow	3	4
Green	3	4
R-Arrow		
Y-Arrow		1
G-Arrow		1

			PED			NAL IN	VENTO	RY					
		S	ize	QUA	ANTITY	Iluminatio	n Method		PUSHBUTTON ASSEMBLY				
	9"	12"	16"	Countdown	Incandescent	LED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA Compliant?	
1 Section - Word									Button	7		no	
1 Section - Symbol									Legend	ح			
2 Section - Word									Audible	0			
2 Section - Symbol													

Omf &1 14 87 is on 88 Segue.

φ Set	1	2	3	4	5	6	7	8	9
Min	3	15		5					
Ext.		,		7.8					
Max I	3	37		17					
Max II	3	72		17					
Yel	320	4,0		7.0					
Red	011	2,0		1.0					
Walk		15							
Ped CI		1							
Lock				NL					
Recall	Max	Max							

Sketch of intersection signal phasing and signal layout:

SIGNAL SUPPORT QUANTITIES Span Wire Mast Arm **Post** 81 Monlever Free Tether 10' Truss Good Post Fair Poor Comments:

MOUTLET DEFAN/THERMOSTAT DLAMP NO BULL □MAST ARM ☑SPAN WIRE □ORNAMENTAL VEH SIG №8" №12" Sect: №3 □4 □Bi №5 ☑DH □Inc □FO ☑LED □OP □Failure DLA = 21 4 82 □Fixed ☑Freeswing □Tether
Colorydly □ □Backplate ☑Visor CPAI Det. On 50 d AII MRM 1-6 to PED SIG □9" □12" □16" MA Int MIX 17 □Inc □FO ☑LED □Failure All □Word □Symbol ☑Red/Yellow/gren
□Pushbutton □Audible □Failure Ped Rea 75 76 DETECTION ☑Loop □Video □Magnetic □Microwave □Infrared □Failure ADVANCE SIGNING Mone □Static □Illuminated NUMBER OF PHASES □2 ☑3 □4 □5 □6 □7 □8 LEFT-TURN ☑Perm. ☑Prot. □Lead □Lag □Simult Lockcon PED PHASE

None

Exclusive

Concurrent CYCLE LENGTH Max CABINET PHOTOS

☑ Input L	ad Preempt _ock Higher Run Priority	User P Duration Preem	um Interval riority: on Service: pt Delay: vice Time:		1 N	☐ Inhi din, G din, Y din, R din, P din, O	reen: ellow: ed: ed. Clo	earan	ce:	-)		to Nessume Coord	xt <u>D</u> er <u>S</u> equ	nand ence	EI	ell '	-3 -3		ENGINEERING SOCCESS I OGETHER		ת ח ל 2
RUN			and the same of th										10	1 44	1 40	40	1 44	4.5	40			
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10 J	11 K	12 L	13 M	14 N	15	16 P			
1	15	PLAN	OUTS	Α	В	С	D	E	F	G	Н		J	, n	<u> </u>	IVI	14	-			_	-
TYPE			VEH	G									-		 				 	Location:	City:	Project:
TENTHS			PED	-						-			 	-			 		-	ă.	• •	ec
EXIT			VEH O/L	6		ļ		ļ	-		-	+	₩				 		-	ä		===
			PED O/L	 		<u> </u>	 		-						-	-	 	-	-	-6	i .	1
PC->YEL			OUTS												_				-			1
		war and the same of the same o		1													-	-				
RUN	1			-	-		-			-	-	-	140	44	10	42	4.4	15	16	1		
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6 F	7	8	9	10 J	11 K	12 L	13 M	14 N	0	P			l
て	i	PLAN	OUTS	Α	В	С	D	E	F	G	Н	-	J	<u> </u>	<u> </u>	IVI	14	 				1
TYPE			VEH	Y			ļ	ļ					ļ	<u> </u>	 		ļ		-			
TENTHS			PED				ļ	1		-			<u> </u>	ļ	↓							
EXIT			VEH O/L	4		ļ	ļ		ļ		ļ		 		 		 	<u> </u>				
			PED O/L					_				+	-	-	 	1	 	-	-		1	
PC->YEL			OUTS		<u> </u>							+	1	<u> </u>	-		-		-			
													-								-	
RUN	1				<u> </u>	- I	-				-	1	1 40	1 44	1 40	42	1 44	1 45	16	1	1	
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7 G	8	9	10 J	11 K	12 L	13 M	14 N	15	P			
7	て_	PLAN	OUTS	A	В	С	D	E	F	G	Н	 	<u> </u>	l n		įVI	IN	-		1	1	
TYPE			VEH					-	_		-		-	-	-		-	-	-			
TENTHS			PED		↓				├				 	-	├	<u> </u>	-	 	 			
EXIT			VEH O/L	<u> </u>	-	-		-	-	-		-	+		-	-	-	-			1	
			PED O/L	1	<u> </u>	ļ	-	-	-	 	-		-	 	1	-	1			1	1	1
PC->YEL			OUTS										-									
	-			1										1					-			
RUN			-						-	<u> </u>	-	+	1 40	1 64	- 60	40	1 44	AE	10	1 Da	Ву:	Sh
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14 N	15 O	16 P	Date:	• •	Sheet:
		PLAN	OUTS	A	В	С	D	E	F	G	Н		J	K	L_	M	N	-	-		1	1.
TYPE			VEH							-	_				_	-	-	-		37	2	2
TENTHS			PED			<u> </u>	<u> </u>	<u> </u>				1-	-	-	-	ļ	-	-		13	MWILL	
EXIT			VEH O/L		_			_			-		-	 	-		-			7	0	17
			PED O/L				1		<u> </u>	-	-		-	 	-		-	-	-	1	1	
DC SVEL	1		OUTS	1	1	1	1	1	1	1	1	1	1	1	1	i .	1	1	1		1	1

DEPARTMENT OF TRANSPORTATION

	DEL ARTIMERT OF LITTLE OF THE PROPERTY OF THE
PROJEC TOWN	LOCATION # - 4-T D.O.T. INSPECTOR - DATE OF NEW SERVICE - CONTRACTOR'S REP JUS CHANGE OVER DATE -
LOC	P DETECTOR TEST - (PERFORMED BY CONTRACTOR) SEE STANDARD SHEET TR-1000_01
TEST	INSULATION RESISTANCE (MEGGER) LOOP CIRCUIT RESISTANCE POWER INTERUPTION
DATE	

PRELIMINARY VISUAL INSPECTION - (PERFORMED BY INSPECTOR)

FOUNDATIONS	TR-1002_01
CTRL FND 4" ABOVE GROUND	Y
CONCRETE PAD (3'X4')	Y
CAST IN PLACE, BRUSH FINISHED	4
CONDUITS BONDED TO GROUND ROD)
DUCT SEAL IN CONDUITS	14
	/

HANDHOLES	TR-1010_01
FLUSH WITH GRADE	Y
SET ON CRUSHED STONE BASE	40
COVER & CONDUITS BONDED	\Q
DUCT SEAL IN CONDUITS	/40

SPAN POLES / MAST ARMS	TR-1103_01
LOCATION	oK_
BASE GROUTED	0K
PROPER RAKE, PLUMB UNDER LOAD	OK
HEIGHT / ARM LENGTH	26
H.H. CVR. POLE CAP, BOLT CVR	OF
BONDED TO GROUND ROD	ONK
I.D. TAG	3/4
1 SPAN CLAMP PER ATTACHMENT	ak

	PEDESTALS TR-	-1102_01
	LOCATION	OK
	PLUMB	014
	BONDED TO GROUND ROD	UNK
1	CRUSHED STONE IN FOUNDATION CENTER	UKK.
-		

TRAFFIC SIGNALS TR-	-1105_01
SPAN LAYOUT	OK
PLUMB APPEARANCE	OKE
FACES: TYPE & LOCATION	OKC
VISORS / LOUVERS / BACK PLATES	OK (S)
MISSING HARDWARE: BOTTOM CAPS, ETC	OK
HEIGHT 16'-17' TO BOTTOM	. o C.
SIGHT DISTANCE (VISIBILITY)	ok
UTILITY CLEARANCES	016
ğ	

PEDESTRIAN SIGNALS	TR-1102_01
CORRECT TYPE / SIZE	OK
FACING PED. TRAFFIC	OK
PROPER ADVISORY SIGNS	1814
The state of the s	

NOTES: O FOR THOSE OBSERVED	
(2) DOGHASE SIGNAL DAMAGED	
	}

DATE: 2312

PUSH BUTTONS	TR-1107_0:
ADA TYPE BUTTON, (2" DIA.), PIEZO	0L
42" MOUNTING HEIGHT	OK
ACCESIBLE FROM SIDEWALK/RAMP	896

ADA REQUIREMENTS

CROSSWALKS	01
SIDEWALK (CLEAR PATH, MIN 36")	DK
RAMPS W/ DETECTABLE WARNING STRIP	V
	/

SIGNS

510.13	
SPAN & POST MOUNT	OK
LANE USE ARROWS	DIC.
NTOR SIGNS	NIA
STOP, STOP AHEAD, INT WARNING	NA
SIGNAL AHEAD	NIA
FLASHING "STOP AHEAD"	NA
	,

PAVEMENT MARKINGS

FAVERENT PIARRINGS	
LANE ARROWS	NA
PROPER LANE & SHOULDER WIDTH	61-
CENTER LINES	8/-
STOP BAR PLACEMENT	OC
ELEPHANT TRACKS	M/A
	/

REV'D 3-11
FLASH-ELEC-CHKLSTCO.DGN

	1		1	
1	8	5	1	
(0	4	A	
-	1/2	D	et	

CITY/TOWN ___ JOB# ___ DATE __ LOCATION S Colon Rd @ Ward St

Component	Local Controller	Master Controller	CM / MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabinet
Quantity		1		9	NIA		6	1	(
Make	Peek	Peel	Trust	Sorasula		3 M	PAC/TSC	PPC	Peeh
Model #	3000	M3000	ITELRA	(2) 535T (6) 515T GPZ		752 Conticom	(1) ZOOK (4)565-87WP	55F-874P	5524
Serial #	ALU	Alu	Ala			AIG	(1) Cyz 200	419	10/4
Comments:	5074 15.0	Out of SEVI	EP.					pot sore stay load sortch reworking	

Po lights

	Si	ze
	8"	12"
Red	8	7
Yellow	8	2
Green	8	7
R-Arrow		
Y-Arrow		
G-Arrow		

				QU	ANTITY				DIISH	BUTTON	ASSEM	BI V
		S	ize			Illuminatio	on Method		1 0011	BOTTON	AGGEIII	
	9"	12"	16"	Countdown	Incandescent	LED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA Compliant?
1 Section - Word			6		6				Button	4	4	4
1 Section - Symbol			2		6	Z			Legend	7		
2 Section - Word									Audible	0		
2 Section - Symbol												

8' 10' Truss Monlever Free Good V		Spar	st Arm	Mas	ost	Po		
	Tether	Free	Monlever	Truss	10'	8'		
Fair Fair		V					Good	
	\geq	\geq	><	$>\!\!<$			Fair	to
Poor	\geq	> <	><	> <			Poor	

88	regn								
φ Set	1	2	3	4	5	.8	A	18	9
Min		9	5	15	0	0	5	5	
Ext.		3,0	7.0	3.0	0.0	0,0			
Max i		74	9	39	0	Ó	30	30	
Max II		31	9	77	0	0	30	30	
Yel		410	4.0	4.0	011	0,0	4.0	3,0	
Red		20	10	1.0	0,0	0.0	7.0	1,0	
Walk		19			7				
Ped Cl)			7				
Lock			NL		NL				
Recall		Min							

Sketch of intersection signal phasing and signal layout:

DOUTLET DEAN/THERMOSTAT DLAMP
□MAST ARM □SPAN WIRE □ORNAMENTAL
VEH SIG 12" Sect: 13 124 13 11 15 11 11 11 11 11 11 11 11 11 11 11
PED SIG 19" 12" 16" Color_Yellow/Black Backplate Visor Det. cln An OLA = 7,3
PED SIG 19" 12" 116" 2 Inh Nex All OLA = 7,3
Minc □FO MLED □Failure MWord ☑Symbol □Red/Yellow 75 7 Peò Ræy Ah
☑Pushbutton □Audible □Failure 26 2,73
Minc FO MLED Failure Mord Symbol Red/Yellow Ped Ray Ped Ray All Ped Ray All DETECTION MLoop Video Magnetic Microwave Infrared Failure To The Ped Ray All Ped Ray All Ped Ray All To The
ADVANCE SIGNING Manone Listatic Milliuminated Policy 1 1 1 1
NUMBER OF PHASES 2 3 4 5 6 17 18 30 4
LEFT-TURN Perm. Prot. DLead DLag Simult 71 4
PED PHASE None MExclusive Concurrent
CYCLE LENGTH Max Min
□ CABINET PHOTOS

✓ Enable ✓ Railros ✓ Input L ✓ Go to I ✓ NEMA ✓ Overrie	e Run ad Preempt ock Higher Run Priority	Preempt User Priority: k Duration Service: her Run ority Preempt Delay:				Maximum Intervals:											xt <u>D</u> er <u>S</u> equ inatio	nand ence n 3 4 5	Transfer	HAD THE THE	X	ENGINEERING SUCCESS TOGETHER	
RUN	TIRAC	FLACII	RIC	4	9	2	Α.	5	6	7	R	9	10	11	12	13	14	15	16	1			
INTVL#	TIME	The second secon							~ ~ ~ ~ ~ ~			1	The second section is the second	K	L	M	N	0	P				
	77	PLAN		A			-	-	-	-	 	+-	+-	 	- -						Ω	P	
TYPE	ļ		VEH PED			G	 	-		-	-	+	+				 	-		ca	City:	<u>S</u>	
TENTHS			VEH O/L	G				-			 		+-		_					Location:		Project:	
EXII	-		PED O/L	6		 	 				†												
PC->YEL		<u> </u>	OUTS	XI			 				1 -									1	1	1	
10+122		_	30.0																		1	1	
RUN								-															
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
7	111	PLAN	OUTS	A	В	C	D	E	F	G	Н	ı	J	K	L_	M	N	0	P		1		
TYPE			VEH			Y		—															
TENTHS	 		PED			 																	
EXIT	1		VEH O/L	Y																	1		
	†		PED O/L											<u> </u>				<u> </u>			1		
PC->YEL			OUTS	XI																		1	
								7			1											1	
RUN	1		on development of the control of the																10			1	
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		1		
3	2	PLAN	OUTS	Α	В	С	D	E	F	G	Н		J	K	L_	M	N	0	P				
TYPE			VEH								<u> </u>		<u> </u>	 									
TENTHS			PED						L		<u> </u>			-	<u> </u>								
EXIT			VEH O/L			-				<u> </u>	-	-	-	+-	-			-	-	1			
			PED O/L	1		ļ	<u> </u>	<u> </u>		├	-	+-	 	 	-	-	├	-	-		de,		
PC->YEL			OUTS	XI																			
										-	-												
RUN			Lois			-	+-	-	-	1 -			10	14	12	13	14	15	16	Date:	Ву:	Sheet:	
INTVL#	TIME	FLASH	SIG	1	2	3	4	5 E	6 F	7 G	8 H	9	10 J	11 K	L	M	N	0	P	e.	- •	eet	
4	ZO	PLAN	OUTS	Α	В	-	D	-		-	+ "	+-	+ -	- 11	-	1 1	-	+ <u> </u>	<u> </u>	1.0	-		
TYPE	 		VEH	-	-	-	G	-	+	+	+-	+	+	_	+	-	 	\vdash	-	4	MWW	5	
TENTHS			PED VEH O/I		_	-	-	-	-	-	+		+-	-	-	-	-	_		1	15	-	
EXIT	 		VEH O/L PED O/L			-	+	-	+	-	+		1							12	1		
PC->YEL	 		OUTS	XI		-	+	+		 	+	_	+ -					\vdash	1	1 []			
I LOALER			0013														-		-	1	4.	I	

☐ <u>E</u> nable ☐ <u>R</u> ailroa ☐ Input <u>L</u>	ad Preempt ock ligher Run Priority	Maxim	N N	☐ Inhibit Double Clearing OVL's ☐ Go to Exit Phase Min. Green: ☐ Go to Next Demand Min. Yellow: ☐ Resume Sequence Min. Red: ☐ To Coordination Min. Ped. Clearance: ☐ Phases Min. Overlap Yellow: ☐ Calls										8]			ENGINEERING SUCCESS TOGETHER		D T T >			
RUN										2000												
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15 O	16 P			
5	3	PLAN	OUTS	Α	В	C	D	E	F	G	Н	 '	J	K	L	М	N	0	P			_
TYPE			VEH				7					-			_			├		.00	City:	ŏ
TENTHS			PED									 	-					 	_	Location:	.7	Project:
EXIT			VEH O/L																	ñ:		
			PED O/L									+-	-					├	-	1 .		
PC->YEL			OUTS	IX								 										
																	<u> </u>					
RUN			l cio		0		4	E	6	7	8	9	10	11	12	13	14	15	16			
INTYL #	TIME	FLASH	SIG	1 A	2 B	3 3	4 D	5 E	6 F	G	Н	1	J	K	L	M	N	0	P			
6		PLAN		A						-		+ -	۲	- ``		101	- `` -	-	 			
TYPE			VEH									+-	 	 			-	-				
TENTHS			PED	-						-	-	+-	 	 			-		 			
EXIT	 		VEH O/L PED O/L	-								+	 									
PC->YEL			OUTS	IX			-			-	_	+	_			 						
PU-FTEL		-	0013	12								-	4							1		
RUN																			- Assert	9		
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
MAIAFA	111712	PLAN	OUTS	A	В	C	D	E	F	G	Н	1	J	K	L	M	N	0	P			
TYPE			VEH																			
TENTHS			PED	 																		
EXIT	 		VEH O/L																			
			PED O/L																			
PC->YEL			OUTS																ļ			
RUN																	The state of the s			D	В	S
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Date:	By:	Sheet:
		PLAN	OUTS	А	В	C	D	E	F	G	Н	1	J	K	L	M	N	0	Р			Ħ
TYPE			VEH																	2	Z	1
TENTHS			PED															_		0	5	3
EXIT			VEH O/L														<u> </u>			-	3	1
			PED O/L										<u> </u>							12		
PC->YEL			OUTS									1				<u> </u>	L	<u> </u>				1

Input L Go to I NEMA Overri	e Run ad Preempt _ock Higher Run Priority de UCF	User P Duration	um Interval riority: on Service: pt Delay: vice Time:		3 N 2 N 2 N 3 N] Inhi din. Gi din. Yi din. Ri din. Po	reen: ellow: ed: ed. Clo	earand	œ:	5	D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Go to Next Demand								EMPINEENING SUCCESS I MARIJEN	0 2	₽ П
RUN	7	FLAGU	Leio	1 4	-	3	1	5	6	7	8	9	10	11	12	13	14	15	16	1		
INTVL #	TIME	FLASH PLAN	SIG	A	2 B	C	4 D	E	F	G	Н	1	J	K	L	M	N	0	P			
TVDE	13	FLAN	VEH	-		-	G		•	-	<u> </u>	+	-							1 _	Ω	P
TYPE TENTHS			PED	-			10								1		 	_		Location	City:	Project:
EXIT	-		VEH O/L									_	-							tio		ct
EXII			PED O/L									1	1							1 3		
PC->YEL			OUTS				-												<u> </u>	Ĩ.	1	1
TOFILE			00.0	-																1		
RUN	7							1														
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1		
7	4	PLAN	OUTS	A	В	C	D	E	F	G	Н	Ī	J	K	L	M	N	0	P			
TYPE			VEH				V			†										1		
TENTHS			PED				/		 	 		+ -		_			1					
EXIT	 		VEH O/L		_					<u> </u>		_					<u> </u>			1		
EXII	 		PED O/L														\vdash			1		
PC->YEL	 		OUTS	 		<u> </u>														1		
10-122					-								1					Borra				
RUN	7																					
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
3	7	PLAN	OUTS	Α	В	C	D	E	F	G	Н	1	J	K	L	M	N	0	Р		+	
TYPE			VEH																		1	
TENTHS			PED																			
EXIT			VEH O/L																			
			PED O/L												<u> </u>							
PC->YEL			OUTS																			
	- Control of the Cont																					
RUN						organ utananan		_		-						-			Parameter States		ᄧ	S
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Date:	Ву:	Sheet:
		PLAN	OUTS	Α	В	C	D	E	F	G	Н	1	J	K	L	M	N	0	Р			Ħ
TYPE			VEH																	7	_	
TENTHS			PED														ļ			. 3	15	909
EXIT			VEH O/L													ļ		<u> </u>		10/29/10	MMM	7
			PED O/L							L			<u> </u>	<u> </u>			<u> </u>	ļ		9		
PC->YEL			OUTS															<u> </u>				-

Pre-empt	ーコ	B		_] <u>[</u> nhi	bit Do	uble (learin	ng OVI	_'s	☑ Go	to Exi	t <u>P</u> has	se se	Vali	N 1-	-3		ENGINE		3
▼ Enable	Run	Maxim	um Interval	s:	3	din. G	reen:			S		□ Go				Du	ell 4			Ä		
(Cartina de la Cartina de la C	ad Preempt	Hans D.	12.14.0	1932			11				-11	☐ Re				FIX	دل ل	-3		S DA		
		User Pi	nority.		Z 1	Ain. Y	ellow:			0	() ()	☐ To				Ex	71 Y			CC.		
M Input L		Duratio	n Service:		0 1	din. R	ed:			0			CONIG	mauu		E)	CIŢ			ESS		
Go to H	ligher Run	90 000		1000								FUNC	PH 1	1 2 3	4 5	6 7	8			Į		
□ NEMA	Priority	Preemp	ot Delay:		0	Ain. Po	ed. Cl	earand	ei	ć)	Phase								E	-	-
Overrie		Decen	rice Time:		6 N	din O	verlan	Yello	312"			Calls					in			点		
	ac ooi	NESCIY	icc illic.		9	min. O	Acmah	, i ciic		O	o	Calls										
RUN	3	And the state of t														1.0		1 4 5	40			
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13 M	14 N	15 O	16 P			
1	15	PLAN	OUTS	A	В	С	D	E	F	G	Н	<u> </u>	J	K	L	IVI	14				<u> </u>	77
TYPE			VEH		6			ļ				┼	-	-			 			Location	City:	Project:
TENTHS			PED		<u> </u>			<u> </u>	_						_	-	-	<u> </u>		atic		PC
EXIT			VEH O/L	6				 				-								i ii	:	T.
	ļI		PED O/L		-		ļ	├ ─		-	├	+					-	 		7 1	1	
PC->YEL			OUTS																	4		
																				1		
RUN	7		212	4			1	E	6	7	8	9	10	11	12	13	14	15	16			
INTVL#	TIME	FLASH	SIG	A	2 B	3 C	4 D	5 E	6 F	G	Н	1 -	J	K	L	M	N	0	P			
2	4	PLAN	OUTS	A		<u> </u>	<u> </u>		-	-	- ''-	+ '-	-	 ``	-	- '''	- `` -					
TYPE			VEH		7	<u> </u>	 	-			 	 -		 			-	-				
TENTHS			PED		-		-	 			-	+	 				 	 				
EXIT	<u> </u>		VEH O/L PED O/L		+						 	+	-		\vdash							
PC->YEL			OUTS	\vdash	+		-	+			_		 									
PC->TEL		_	0013		_																	
RUN	3																					
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16			
3	Z	PLAN	OUTS	Α	В	C	D	E	F	G	Н	1	J	K	L	M	N	0	P			
TYPE		<u></u>	VEH																			
TENTHS	1		PED																			
EXIT			VEH O/L													<u> </u>				11 1		
			PED O/L											L								
PC->YEL			OUTS															Ļ		1		
RUN								1				apart and						4.5	10	D	B _Y :	S
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Date:	.:	Sheet:
		PLAN	OUTS	A	В	C	D	E	F	G	H	1	J	K	L	M	N	0	Р	V V	7	CŤ.
TYPE			VEH								ļ	1	1	<u> </u>	ļ	-				1	_	20
TENTHS			PED				ļ				ļ		-	ļ				<u> </u>		21/5	MWW.	4
EXIT			VEH O/L		ļ	<u> </u>	<u> </u>	-		-	-	1		ļ		<u> </u>				1	2	
			PED O/L				-	 			 				-							
PC->YEL	1		OUTS	L							1					L		1		1		

		DE:	PARTM	ENT OF T	RANSP	ORTA	ATIC	N	•
Б	POIECT - LOCATIO	NI #	5-T	DOT INS	FCTOR -			DATE OF NEW SERVICE :	
Ť	PROJECT - LOCATIO	N = 50	wit COLDALI	CONTRACTO	DR'S REP	- HO	B/	CHANGE OVER DATE -	-
	DOMESTIC LOCATIO	200	warp /s	5-	JICO ICELL				
	LOOP DETECTOR TEST - (PERFOR	KWED BA (CONTRACTOR)	SEE STAI	NDARD	SHE	E1 1K-1000_01	
	TEST INSULATION RESISTANCE (MEGGE	R) LOOF	CIRCUIT RESI	STANCE POWER	INTERUPTION				
	DATE								
		CTION	(DEDE	DDMED DV IN	CDECTODY		DAT	E. 2/2/12	
	PRELIMINARY VISUAL INSPE	CITON	- (PERF	DRMED BY IN	SPECIUR)		DATI	E. <u>2/3/12</u>	
	FOUNDATIONS TR	-1002_01	PEDEST	TALS	TR	-1102_01		PUSH BUTTONS	TR-1107_01
	CTRL FND 4" ABOVE GROUND	7	LOCATI			OK	i	ADA TYPE BUTTON, (2" DIA.), PIEZO	1
	CONCRETE PAD (3'X4')	7	PLUMB			OK		42" MOUNTING HEIGHT	1
	CAST IN PLACE, BRUSH FINISHED	Y	BONDE	D TO GROUND ROD		UNK		ACCESIBLE FROM SIDEWALK/RAMP	Y
	CONDUITS BONDED TO GROUND ROD	4	CRUSH	D STONE IN FOUND	ATION CENTER	INK	[
	DUCT SEAL IN CONDUITS	4							
			•				,	ADA REQUIREMENTS	
			TRAFFI	C SIGNALS	TR	-1105_01		CROSSWALKS	y (3)
	HANDHOLES TR	-1010_01	SPAN I	_AYOUT		OL		SIDEWALK (CLEAR PATH, MIN 36")	17
	FLUSH WITH GRADE	Y	PLUMB	APPEARANCE		oh]	RAMPS W/ DETECTABLE WARNING STRI	PNO
	SET ON CRUSHED STONE BASE	140		TYPE & LOCATION		OB	Į		
	COVER & CONDUITS BONDED	NO		/ LOUVERS / BACK		OL.			
	DUCT SEAL IN CONDUITS	NO		G HARDWARE: BOTT				SIGNS	
				16'-17' TO BOTTOM		OK		SPAN & POST MOUNT	ot
				DISTANCE (VISIBILIT	Y)	aK.		LANE USE ARROWS	71
		-1103_01	UTILITY	CLEARANCES		D.K.	ļ	NTOR SIGNS	10/0
	LOCATION	OK.						STOP, STOP AHEAD, INT WARNING	N/A
	BASE GROUTED	0/2		TOTAL CTONALC		1100 01	}	SIGNAL AHEAD FLASHING "STOP AHEAD"	10//4
	PROPER RAKE, PLUMB UNDER LOAD	OIL		RIAN SIGNALS	TR	-1102_01	}		N/A N/A
	HEIGHT / ARM LENGTH	616		T TYPE / SIZE PED. TRAFFIC		ØE.	Į.	INT. ILLUM SIGNIS	1000.
	H.H. CVR. POLE CAP, BOLT CVR	OK		ADVISORY SIGNS		(2)		PAVEMENT MARKINGS	
	BONDED TO GROUND ROD I.D. TAG	UNK	FROPER	C ADVISORT SIGNS		(5)		LANE ARROWS	OK 3
	1 1.0. 100	TO A DECEMBER 1	1				L		1

NOTES: (1) FOR THOSE OBSEQUED

(2) VAROUS TYPES USE SOME NEWER STIFLE

(3) IN POOR CONDITION

(4) AT ONE LOC. NEW PAMP (S/E CUE.)

(5) COULD BE MONED BACK (2) NB APPROPRIA.

1 SPAN CLAMP PER ATTACHMENT

REV'D 3-11 CADD FLASH-ELEC-CHKLSTCO.DGN

PROPER LANE & SHOULDER WIDTH

CENTER LINES
STOP BAR PLACEMENT

ELEPHANT TRACKS

CITY/TOWN JOB#DATELOCATION	TY/TOWN	JOB#	DATE	LOCATION			
----------------------------	---------	------	------	----------	--	--	--

			CONTRO	LLER CABI	NET INVEN	ITORY			
Component	Local Controller	Master Controller	CM / MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabinet
Quantity		4\4	1	6	Aly	2	10	1	\
Make	3000 E	1.	Peek	Geresolu		3M	PDC	PDC	Peele
Model #	V		IZELRA	272 6P6		752 Optican	Model 700	Madel TOY	9443
Serial #	NIA		0900			N/A	A/u	Alu	HERE
O	the had not a h	. 0 .		a) ask ciaca		reenotion Co			102828

INVE	NTOR	Υ
	S	ize
	8"	12"
Red		lo
Yellow		18
Green		10
R-Arrow		
Y-Arrow		
G-Arrow		

Bi mod G/4 anow 5

				QU	ANTITY				PUSHBUTTON ASSEMBLY			
		S	ize	400		Illuminatio	n Method	i				
	9"	12"	16"	Countdown	Incandescent	LED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA Compliant?
1 Section - Word									Button	6		Y
1 Section - Symbol			12	0		VZ			Legend	6		
2 Section - Word									Audible	1		
2 Section - Symbol												

		SIGNA	L SUI	PPORT	INVENTOF	RY	
		P	ost	Ма	st Arm	Spa	n Wire
		8'	10'	Truss	Monlever	Free	Tether
М	ast Arm						
Post	8'						
Pc	Poor						
Comi	ments:						

	-			4			7	_	
φ Set	1	2	3	4	5	6	7	8	9
Min									
Min Ext.									
Max I									
Max II									
Yel									
Red									
Walk									
Ped CI									
Lock									
Recall									

Sketch of intersection and signal layout:

MOUTLET MEAN MAMP □MAST ARM MSPAN WIRE □ORNAMENTAL VEH SIG □8" 112" Sect. 123 114 118 115 □Inc □FO MLED □OP □Failure	Source Closed hope Source Closed hope	Split Cycl	13	33 5 16 24 13 79 5 16 24 13
□Fixed □Freeswing □Tether Color <u>Yello</u> \ □Backplate ⊡Visor PED SIG □9" □12" ☑16" □Inc □FO ☑LED □Failure	Sphit vi offset in Free ii Fleet ii	1 3	13	78 5 15 ZG 13 33 5 16 ZZ 13
□Word ☑Symbol □Red/Yellow ☑Pushbutton ☑Audible □Failure DETECT ☑Loop □Magnetic □Video □Microwave □Infrared □Failure	Yidd Glort Hay	TOD		1
ADVANCE SIGNING ☑N ☐Static ☐Illuminated NUMBER OF PHASES ☐2 ☐3 ☐4 ☐5 ☐6	bo bay	6:30-9:00	Free 1/1/1	Sur & Sur Free
LEFT TURN ☑Perm ☑Prot ☑Lead ☑Lag ☐Simu PED PHASE ☐N ☑Exclusive ☐Concurrent	lt	18:00 - 18:30 18:00 - 18:30	3/1/1 2/1/1 Free	·
CYCLE LENGTH Max 170 Min 60		4*		

Preenpt exits to phase 2

Project: City:

Wallingford, CT Location: N./S. Colon @ Quimpice & Hall &

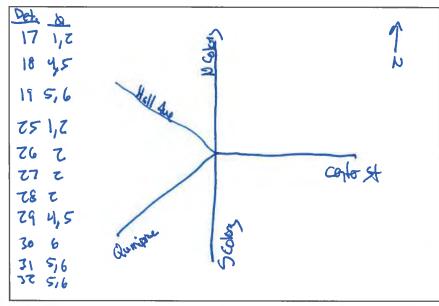
Sheet:

By: Date: 1118/2017

SIGNAL TIMING SHEET

Couromda

INTERSECTION DIAGRAM



Semi-Actuated	
Fully-Actuated	
NOTES: OMF	Phone lif &Z on guantrol

inhibitorix you to all ParReycle Yeb 6411 WRM Yes boull

OVERLAPS

	A	В	CFE	D
Phases	17345	1,2	4,5	516

PRE-EMPTION

Phases		

Phase	1	2	3	4	5	6	7	8
<u>L</u> ock / <u>NL</u> ock	NL	EAUS	μL	pL		be		
Recall (Max, Min, None)		MM						
Walk		9	7					
Don't Walk		1	10					
Min Green	5	15	0	4	12	4		
Extension	20	30	0.0	20	3.0	7.0		
Recall Green								
Max I Green	5	78	٥	6	75	5		
Max II Green	15	40	0	15	75	5		
Max III Green								
Yellow	3.0	3.0	0.1	3.0	3.0	3.0		
All Red	0.1	7.0	0,0	0.1	40	4.0		
Total Split I								
Total Split II								

TIME OF DAY SETTINGS

Cycle	MANI
Time Period:	Ar Peck 6:30-9100
Cycle Length:	100 Min 60
Offset:	70
Cycle	BKAX II 🦂
Time Period:	PM Peul 15100-18:3
Cycle Length:	100 Min 60
Offset:	75
Cyde 1	NYAX III
Time Period:	Mid-14 9:00-15:00
Cycle Length:	100 MM 60
Offset:	75

SIGNAL PHASING DIAGRAM

Diapiece	Or R Cont	m 823 5	2 9	as fart	oc √ L>
		Ped	Colony NG	Nodsa	SB lag

	DEPA	ARTMENT OF TRAI	NSPORTAT	ION	
PROJECT - LOCAT	ION # - 6	D.O.T. INSPECTO	RFP JLB	DATE OF NEW SERVICE = CHANGE OVER DATE =	
	1.0 11-	WIE 5 AT NIPIAC ST. ED BY CONTRACTOR) SEE			
LOOP DETECTOR TEST -	(PERFÖRMI	ED BY CONTRACTOR) SEE	STANDARD SI	HEEL IK-1000-01	
TEST INSULATION RESISTANCE (ME	GGER) LOOP CI	RCUIT RESISTANCE POWER INTERU	PTION		
DATE					
		(DEDEODMED DV INCDEC		ATE: //19/17	
PRELIMINARY VISUAL INS	SPECTION -	(PERFORMED BY INSPECT	IOR)	AIE. 1/10/10	
FOLIND ATTONIC	TR-1002_01	PEDESTALS	TR-1102_01	PUSH BUTTONS	TR-1107_01
FOUNDATIONS CTRL FND 4" ABOVE GROUND	TR-1002_01	LOCATION	OK	ADA TYPE BUTTON, (2" DIA.), PIEZO	0K
CONCRETE PAD (3'X4')		PLUMB	OK	42" MOUNTING HEIGHT	ot
CAST IN PLACE, BRUSH FINISHED	- { /	BONDED TO GROUND ROD	UNK.	ACCESIBLE FROM SIDEWALK/RAMP	OK
CONDUITS BONDED TO GROUND ROD	1/	CRUSHED STONE IN FOUNDATION			
DUCT SEAL IN CONDUITS		CHOSTIES STORY			
DOCT SEAL IN CONDOLLS	7	-		ADA REQUIREMENTS	
		TRAFFIC SIGNALS	TR-1105_01	CROSSWALKS	OK.
	TR-1010_01	SPAN LAYOUT	OK	SIDEWALK (CLEAR PATH, MIN 36")	012-
HANDHOLES FLUSH WITH GRADE	(R-1010-01	PLUMB APPEARANCE	DK	RAMPS W/ DETECTABLE WARNING STRI	PNO
SET ON CRUSHED STONE BASE		FACES: TYPE & LOCATION	OK		
COVER & CONDUITS BONDED	- A	VISORS / LOUVERS / BACK PLATES			
DUCT SEAL IN CONDUITS	N	MISSING HARDWARE: BOTTOM CAI		SIGNS	
WIRE NUTS	- N	HEIGHT 16'-17' TO BOTTOM	OK	SPAN & POST MOUNT	02(4)
Miles May 3		SIGHT DISTANCE (VISIBILITY)	OK	LANE USE ARROWS	OK.
SPAN POLES / MAST ARMS	TR-1103_01	UTILITY CLEARANCES	OK	NTOR SIGNS	OK
LOCATION	OK-			STOP, STOP AHEAD, INT WARNING	NA
BASE GROUTED	0K(2)			SIGNAL AHEAD	NA
PROPER RAKE, PLUMB UNDER LOAD	OK	PEDESTRIAN SIGNALS M/ch	TR-1102_01	FLASHING "STOP AHEAD"	NA
HEIGHT / ARM LENGTH	06	CORRECT TYPE / SIZE			
H.H. CVR. POLE CAP, BOLT CVR	(3)	FACING PED, TRAFFIC	OK.		
BONDED TO GROUND ROD	13	PROPER ADVISORY SIGNS	8E	PAVEMENT MARKINGS	
I.D. TAG				LANE ARROWS	OK.
LIDI ING					01/

NOTES: (1) SEVERIM ARE NOT FUSH

(2) POLE AT N.E. COL. RTE 150 & US RTE NEEDS WORK (2) BASE

(3) SOME MISSING OR RUSTED SINT

(5) LANE SEE SIAM OBSCURED (2) US RTE 5 SB

(6) ROR COND. ON AALL AVE.

1 SPAN CLAMP PER ATTACHMENT

REV'D 3-11
FLASH-ELEC-CHKLSTCO.DGN

OK

OR

NA

PROPER LANE & SHOULDER WIDTH

CENTER LINES

RIR NNG

STOP BAR PLACEMENT

ELEPHANT TRACKS

1	
1751	
(6)	

		2017	
CITY/TOWN	JOB#	DATE 7316 LOCATION_	

	CONTROLLER CABINET INVENTORY													
Component	Local Controller	Master Controller	CM / MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabinet					
Quantity		Ala	1	1	Al 4	MA	3/8	1						
Make	Peek		Trasut	Swazota			PDC	PDC	Peek					
Model #	700		Model 1200	232 GP6			555-87WP	SSF-67UP	7786					
Serial #	5907		171	4/4	<u> </u>		10/A	A/4	117710					

VEHICLE SIGNAL INVENTORY					
Size					

Comments:

	S	ize
	8"	12"
Red		6
Yellow		6
Green		6
R-Arrow		
Y-Arrow		
G-Arrow		
Comments:		

			PEI	-		NAL IN	VENTO	RY	1			
		S	Size	QU	ANTITY	Illuminatio	on Method	مناورتيسا	PUSHBUTTON ASSEMBLY			
	9"	12"	16"	Countdown	Incandescent	ΓED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA Compliant?
1 Section - Word									Button	7		2
1 Section - Symbol			2		2				Legend	7		
2 Section - Word									Audible		/	
2 Section - Symbol												

	5	SIGNA	L SUF	PORT	UANTITIE	ES	
		P	ost	Ма	st Arm	Spa	n Wire
		8'	10'	Truss	Monlever	Free	Tether
	Good					\	
Post	Fair			\times	><	$>\!\!<$	$>\!\!<$
	Poor			$>\!\!<$	><	$>\!\!<$	$>\!\!<$
Comr	ments:						

800 9	egn.								
φ Set	.1	2	3	4	5	6	1	8	9
Min		15		E					
Ext.		7.0		3,0					
Max I		30	75	70					
Max II		30	The	70					
Yei		3.0		3.0					
Red		10	011	1.0					
Walk			9						
Ped CI			17						
Lock				BL					
Recall		Min							

Sketch of intersection signal phasing and signal layout:

MOUTLET MEAN/THERMOSTAT MAMP	1	030	184 d>
□MAST ARM ØSPAN WIRE □ORNAMENTAL		<u> </u>	
VEH SIG □8" ☑12" Sect: □3 □4 □Bi □5 □DH			
□Inc □FO ☑LED □OP □Failure □□ □Fixed ☑Freeswing □Tether Color □Backplate ☑Visor ▷cl-ch-	& CUAI	\$7	
PED SIG □9" □12" ☑16"	0 - 1 - 1	AII	
☐Mord ☐Symbol ☐Red/Yellow q ☐Pushbutton ☐Audible ☐Failure	4 4	Imene	
DETECTION □Loop □Video □Magnetic □Microwave □Infrared □Failure 75	4	The state of the s	
ADVANCE SIGNING ☑None ☐Static ☐Illuminated 79	5 / 5 V	2	
NUMBER OF PHASES D2 2 13 D4 D5 D6 D7 D8		8	
LEFT-TURN ☑Perm. ☐Prot. ☐Lead ☐Lag ☐Simult >7		ch (I &	
PED PHASE □None ☑Exclusive □Concurrent	~	->4	
CYCLE LENGTH Max Min	2	B	
☐ CABINET PHOTOS		þ	

DEPARTMENT OF TRANSPORTATION

	וים ע	ARTMENT OF TRANSF	OIVIAI	1014	
PROJECT - LOCATI	ON # - B	5-T PNO TO CONTRACTOR'S REP.		DATE OF NEW SERVICE	
TOWN - LOCATI	ON - 2	5-T PND ATT CONTRACTOR'S REP.	TIE	CHANGE OVER DATE -	
LOOP DETECTOR TEST -	(PERFORM	MED BY CONTRACTOR) SEE STAN	NDARD S	HEET TR-1000_01	
TEST INSULATION RESISTANCE (MEG	GGER) LOOP (CIRCUIT RESISTANCE POWER INTERUPTION			
DATE					
5111		61			
			_	2/2/-	
PRELIMINARY VISUAL INS	PECTION -	(PERFORMED BY INSPECTOR)	D,	ATE: 2/3/12	
					R-1107_0
	TR-1002_01	PEDESTALS TR-	-1102_01	ADA TYPE BUTTON, (2" DIA.), PIEZO	T 🗸
CTRL FND 4" ABOVE GROUND	- 	PLUMB		42" MOUNTING HEIGHT	OK
CONCRETE PAD (3'X4') CAST IN PLACE, BRUSH FINISHED	¥	BONDED TO GROUND ROD	New Horizon	ACCESIBLE FROM SIDEWALK/RAMP	N
CONDUITS BONDED TO GROUND ROD	 	CRUSHED STONE IN FOUNDATION CENTER		ACCESIBLE THOSE SIDEWALLY ON I	1
DUCT SEAL IN CONDUITS		CROSHED STONE IN TOUNDATION CENTER	373		
DOCT SEAL IN CONDUITS				ADA REQUIREMENTS	
		TRAFFIC SIGNALS TR-	-1105_01	CROSSWALKS	10
HANDUGI 55	TD 1010-01	SPAN LAYOUT	OL	SIDEWALK (CLEAR PATH, MIN 36")	(0)
HANDHOLES FLUSH WITH GRADE	TR-1010_01	PLUMB APPEARANCE	DIC	RAMPS W/ DETECTABLE WARNING STRIP	N
SET ON CRUSHED STONE BASE	UNEW.	FACES: TYPE & LOCATION	6L		1.
COVER & CONDUITS BONDED	N	VISORS / LOUVERS / BACK PLATES	al		
DUCT SEAL IN CONDUITS	N	MISSING HARDWARE: BOTTOM CAPS, ETC	w/A	SIGNS	
DOCT BEAR IN COMPOSTS		HEIGHT 16'-17' TO BOTTOM	0/-	SPAN & POST MOUNT	OL
		SIGHT DISTANCE (VISIBILITY)	OK	LANE USE ARROWS	N/M
SPAN POLES / MAST ARMS	TR-1103_01	UTILITY CLEARANCES	CL-	NTOR SIGNS	olc.
LOCATION	W/A			STOP, STOP AHEAD, INT WARNING	NA
BASE GROUTED				SIGNAL AHEAD	NIN
PROPER RAKE, PLUMB UNDER LOAD		PEDESTRIAN SIGNALS TR-	-1102_01	FLASHING "STOP AHEAD"	W/B.
HEIGHT / ARM LENGTH		CORRECT TYPE / SIZE	Y		
H.H. CVR. POLE CAP, BOLT CVR		FACING PED. TRAFFIC	Y		
BONDED TO GROUND ROD		PROPER ADVISORY SIGNS	NIM	PAVEMENT MARKINGS	
I.D. TAG	1/			LANE ARROWS	NA
1 SPAN CLAMP PER ATTACHMENT	V			PROPER LANE & SHOULDER WIDTH	ox.
				CENTER LINES	000
				STOP BAR PLACEMENT	or
NOTES:				ELEPHANT TRACKS	NIA
(1) No Fames / Sw @ colo	ssumme La	e. Drivewam			L
* IN POUR LOCATIONS				f	
	- /				

		11/10 0100000	
CITY/TOWN	JOB#	DATE 1/3/2 LOCATION COTOST & SELAS	



CONTROLLER CABINET INVENTORY									
Component	Local Controller	Master Controller	CM / MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabinet
Quantity		A)U	1	6	NA	N/A	9/12		
Make	Peek		Trusct	Scrigoty			PDC	PDC	Southern
Model #	3000		IZELR	575TGR			555-87UP	S61=-87WP	104A 44 1
Serial #	Ald		NIA	AIU			AIA	WA	NIA
Comments:	Couldn't access	s Caput	Key I r	Person To	s and do	00 G 180 >			

	Si	ze
	8"	12"
Red	4	4
Yellow	8	
Green	8	
R-Arrow		
Y-Arrow		
G-Arrow		

				QU	ANTITY		Tre la		DIIGH	BUTTON	ASSEM	BIV
		Size				lluminatio	on Method		FOSII	DOTTON	AOOLIN	
	9"	12"	16"	Countdown	Incandescent	LED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA Compliant?
1 Section - Word									Button	4	V	2 /2 7 /2
1 Section - Symbol			8			8			Legend	4		
2 Section - Word									Audible	1	V	
2 Section - Symbol												

SIGNAL SUPPORT QUANTITIES Span Wire Post Mast Arm 8' Monlever Tether 10' Truss Free Good Post Fair Poor Comments:

☐ CABINET PHOTOS

5m2&1)[50	OA		123		at 14	
φ Set	1	2	3	4	5	6	7	8
Min	3	25	3	8	4	0	3	8
Ext.	20	0.0	20	4.0	010	010	7.0	40
Max I	10	30	าย	75	73	0	10	75
Max II	10	70	10	75	73	0	io	75
Yel	30	30	3.0	3.0	0.1	0.0	3,0	3,0
Red	1.0	710	1.0	7.0	00	0,0	1.0	2,0

Sketch of intersection signal phasing and signal layout:

Walk

Lock Recall

Ped Cl

		The Address and
MOUTLET MEAN/THERMOSTAT DLAMP	बर राज	0 85
□MAST ARM ØSPAN WIRE □ORNAMENTAL		^
VEH SIG Ø8" Ø12" Sect: Ø3 Ø4 ØBi □5 □DH □Inc □FO ØLED □OP □Failure		
□Fixed □Freeswing □Tether Color Yelluw □Backplate □Visor □ther	WRN &Z Tohna All	P
PED SIG □9" □12" ☑16" □Inc □FO ☑LED □Failure □Word ☑Symbol □Red/Yellow ☑Pushbutton ☑Audible □Failure	Pao Ray All	Free
DETECTION ☑Loop □Video □Magnetic □Microwave □Infrared □Failure	A	1 9
ADVANCE SIGNING ☑None ☐Static ☐Illuminated	N	דמ שמ
NUMBER OF PHASES □2 □3 □4 □5 □6 12 17 □8	10	41 5
LEFT-TURN ☑Perm. ☑Prot. □Lead □Lag □Simult	-	V (3)
PED PHASE □None ☑Exclusive □Concurrent	প্ৰ	
CYCLE LENGTH Max Min	or Kily	M 1 83
		-

WRM SOT TITH MOR All POD Ray All Operating	Free	Poul Entry O/L Cord	&4 & & 8 enabled = Y
Δ		Em S	

E7

83

DEPARTMENT OF TRANSPORTATION

PROJECT - LOCATIO	N # -N	15 Etm 875. D.O.T. INS	PECTOR -		CHANGE OVER DATE	
TOWN - WALLING FIND LOCATIO	N - 14	CONTRACT	OR'S REP		CHANGE OVER DATE	
LOOP DETECTOR TEST -	(DEDEODM	ED BY CONTRACTOR)	SEE STAN	IDARD 9	SHEET TR-1000 01	
			JLE JIAI	IDAND S	SHEET IN 1000-01	
TEST INSULATION RESISTANCE (MEGG	ER) LOOP C	IRCUIT RESISTANCE POWER	INTERUPTION			
DATE						
PRELIMINARY VISUAL INSPI	CTTON	(DEDECRMED BY IN	CDECTORY	_	DATE: 0./2/19	
PRELIMINARY VISUAL INSPI	ECITON -	(PERFORMED BY IN	SPECTOR)	L	DATE. PISITE	
FOUNDATIONS TR	-1002_01	PEDESTALS	TR-	1102_01	PUSH BUTTONS TR	-1107_01
CTRL FND 4" ABOVE GROUND	-1002_01	LOCATION	ile.	OK	ADA TYPE BUTTON, (2" DIA.), PIEZO	(D
CONCRETE PAD (3'X4')	1	PLUMB		OK.	42" MOUNTING HEIGHT	OK.
CAST IN PLACE, BRUSH FINISHED	4	BONDED TO GROUND ROL		UNK.	ACCESIBLE FROM SIDEWALK/RAMP	4
CONDUITS BONDED TO GROUND ROD	1//	CRUSHED STONE IN FOUN		UNE.		1
DUCT SEAL IN CONDUITS	11					•
DOCT DEAL IN COMPOSITO					ADA REQUIREMENTS	
		TRAFFIC SIGNALS	TR-	1105_01	CROSSWALKS	(2)
HANDHOLES TE	R-1010_01	SPAN LAYOUT		OK.	SIDEWALK (CLEAR PATH, MIN 36")	×
FLUSH WITH GRADE	1	PLUMB APPEARANCE	l)-	OL	RAMPS W/ DETECTABLE WARNING STRIP	N
SET ON CRUSHED STONE BASE	UNF.	FACES: TYPE & LOCATION	1	OK		
COVER & CONDUITS BONDED	UNK.	VISORS / LOUVERS / BACK	PLATES	ØL.		
DUCT SEAL IN CONDUITS	JUK	MISSING HARDWARE: BOT		ν.	SIGNS	
		HEIGHT 16'-17' TO BOTTOM		OK	SPAN & POST MOUNT	OK.
		SIGHT DISTANCE (VISIBILI	TY)	ok.	LANE USE ARROWS	6K
SPAN POLES / MAST ARMS TR	R-1103_01	UTILITY CLEARANCES		O.C.	NTOR SIGNS	OK
LOCATION	N/A		ja e		STOP, STOP AHEAD, INT WARNING	NIA
BASE GROUTED					SIGNAL AHEAD	NA
PROPER RAKE, PLUMB UNDER LOAD		PEDESTRIAN SIGNALS	TR-	1102_01	FLASHING "STOP AHEAD"	N/A.
HEIGHT / ARM LENGTH		CORRECT TYPE / SIZE	m/4	OL		
H.H. CVR. POLE CAP, BOLT CVR		FACING PED. TRAFFIC		OK.		
BONDED TO GROUND ROD		PROPER ADVISORY SIGNS	1	(3)	PAVEMENT MARKINGS	
I.D. TAG					LANE ARROWS	ek.
1 SPAN CLAMP PER ATTACHMENT	V				PROPER LANE & SHOULDER WIDTH	6K
					CENTER LINES	0K.
					STOP BAR PLACEMENT	
NOTES:			1		ELEPHANT TRACKS	4/12
1) NOT ALL			+			
ED WORN			÷ .		t	
BO OLD - PUSIT BU	T. You	uma Typie.				

FLASH-ELEC-CHKLSTCO.DGN

CITY/TOWN Wallingland, CT JOB# DATE LOCATION Center St @ 4. 15. Main St.

	0		
/	ักา	T	
_	1	V	
_			

	CONTROLLER CABINET INVENTORY									
Component	Local Controller	Master Controller	CM / MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabinet	
Quantity	THAT I		1	4	P/A	NA	8/12		2	
Make	Peek	Peek	Peek	Suraida			6 PDC 2 Babe TSC	PAC	Southern	
Model #	3000	M3000 5581 VZ.5 06/2		516T GPZ			4 4 4 5	SSF-67UP	AU	
Serial #	NIA	AIN	AIG	Al q			Alu	AIU	NIA	

Comments:

Difficult to got door open & turn key

Comments:

VEHICLE							
	Size						
	8"	12"					
Red	8						
Yellow	8						
Green	8						
R-Arrow							
Y-Arrow							
G-Arrow							
Comments:							

omments:	A
4 4/6 Arrow	si- nodel

			PEL	DESTRI	AN SIG	NAL IN	VENTO	RY					
	QUANTITY								PUSH	PUSHBUTTON ASSEMBLY			
	Size				Illuminatio	n Method		1.001	DOTTON	ACCE			
	9"	12"	16"	Countdown	Incandescent	TED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA Compliant?	
1 Section - Word									Button	4	/	/	
1 Section - Symbol			8			8			Legend	4	-		
2 Section - Word									Audible		\checkmark		
2 Section - Symbol													

		Post		Ma	st Arm	Span Wire		
		8'	10'	Truss	Monlever	Free	Tether	
	Good					\checkmark		
Post	Fair			\geq		$\geq \leq$	$\geq \leq$	
	Poor			\geq	><	$\geq \leq$	$\geq \leq$	
Com	ments:							
001111	monto.							

12 3478 oml 85 We 87 150												
56 omit & I when & 6 ison												
φ Set	1	2	3	4	5	6	7	8	9			
Min	3	15		6	3	15	8					
Ext.	Z	0		0.2	Z	4	4					
Max I	10	25	75	10	10	75	30					
Max II	10	40	75	8	10	40	35					
Yel	3	3		7	7	3	3					
Red	1	7	7	-	1	7	7					
Walk		15	9			15						
Ped CI		1	17			1						
Lock	NL			NL	NL							
Recall		Max				MOX						

Sketch of intersection signal phasing and signal layout:

DOUTLET DEAN/THERMOSTAT DLAMP Soll Sweet 181	es = 22 0 12 12 12 12 12 12
□MAST ARM ☑SPAN WIRE □ORNAMENTAL	
VEH SIG 18" 12" Sect: 13 14 Bi 15 DH 10 Inc Inc	CHAI BZ & BG WRM AII
PED SIG □9" □12" ☑16"	Ithrox BY BC
DETECTION ☑Loop ☐Video ☐Magnetic 7 16 ☐Microwave ☐Infrared ☐Failure	N 07 WI
ADVANCE SIGNING ☑None ☐Static ☐Illuminated	d L a
NUMBER OF PHASES □2 □3 □4 □5 □6 ☑7 □8	V 65
LEFT-TURN ☑Perm. ☑Prot. □Lead □Lag □Simult	&1 John Corper
PED PHASE □None ☑Exclusive □Concurrent	86 T AY BY
CYCLE LENGTH Max Min	-25
☑ CABINET PHOTOS	Sign Sign



Project:	Sheet: 77T
City:	By: MWW
Location:	Date: 2/3/12

Source:	Cycle	Split	Offset	Free	Flash		City 2	Zero N	Aidnig	jht Cyc	:les:
TOD Closed Loop Interconnect	□ ⊠					1	2	3	4	5	6
☐ Auto Permis ☐ End of Mair ☐ Enhanced F ☐ Fixed Force ☐ Yellow Offs ☐ Central Ove ☐ No PCL Offs	Street Permiss Off et erride	ives 🗌	Perm- Invert Split N 4 Split		y In % put	Pe Inte	d Per ercon rcent	tep to missi nect T Yield EGB:	ve: FOD F	: levert:	5
SYNC Source TOD/CL/INT City Zero Absolute	: Tyl	pe of Po		Offset So Add Dwell Short		Cond No. No.	dition of Cy of Se	RGB: s to F cles v c. w/l	ree: w/No No off	STATE OF THE STATE OF	6 6

					26		
1	2	3	4	5	6	7	8
0	Ö	0	0	0	0	0	0

Coord 8 2 \$ 6



Project:	Sheet:
City:	Ву:
Location:	Date:

Cycle/Dwell/Offset			(*,			al usaa ka ba
Cycle:	1	2	3	4	5	6
Cycle Length:	0	0	0	0	0	0
Max Dwell/ Min. Cycle:	0	0	0	0	0	Ø
Offset 1:	0					->
Offset 2:						
Offset 3:						
Offset 4:				À		
Offset 5:	V					T.

Week	Plan	, - 1				
Sun	Mon	Tue	Wed	Thu	Fri	Sat
10	Week	Plus				

Day Plan	1 5 5								
Plan #	Time	Ckt Plan	c/o/s	Ckt	Plan #	Time	Ckt Plan	c/o/s	Ckt
NO D	cy Plans								
)								
.									
	-								
					-				
		100							

DEPARTMENT OF TRANSPORTATION

	חבר	ARIMENI OF TRA	NOI UNIAI.	1011	
PROJECT - LOCATI	ION # - 3	D.O.T. INSPECT CONTRACTOR'S	OR - REP July	DATE OF NEW SERVICE = CHANGE OVER DATE	
	Yeout	E 150			
LOOP DETECTOR TEST	(DEDEODM	MED BY CONTRACTOR) SEE	E STANDARD SH	HEET TR-1000 01	
				TEE! IN 1000-01	
TEST INSULATION RESISTANCE (MEG	GGER) LOOP (CIRCUIT RESISTANCE POWER INTERL	JPTION		
DATE					
				1 1	
DDELTMINADY VICIAL INC	DECTION -	(PERFORMED BY INSPEC	TOR) DA	ATE: 2/3/2	
PRELIMINARY VISUAL INS	PECITON -	(FERTORINED BY INSTEE	21010)		
FOUNDATIONS	TR-1002_01	PEDESTALS	TR-1102_01	PUSH BUTTONS	TR-1107_01
CTRL FND 4" ABOVE GROUND	Y	LOCATION	OL	ADA TYPE BUTTON, (2" DIA.), PIEZO	N
CONCRETE PAD (3'X4')	4	PLUMB	20	42" MOUNTING HEIGHT	OF
CAST IN PLACE, BRUSH FINISHED	4	BONDED TO GROUND ROD	UNK	ACCESIBLE FROM SIDEWALK/RAMP	OK
CONDUITS BONDED TO GROUND ROD	Y	CRUSHED STONE IN FOUNDATION	CENTER UNL		
DUCT SEAL IN CONDUITS					
				ADA REQUIREMENTS	
		TRAFFIC SIGNALS	TR-1105_01	CROSSWALKS	OK
HANDHOLES	TR-1010_01	SPAN LAYOUT		SIDEWALK (CLEAR PATH, MIN 36")	OK
FLUSH WITH GRADE	yo	PLUMB APPEARANCE		RAMPS W/ DETECTABLE WARNING STRI	IP N
SET ON CRUSHED STONE BASE	10	FACES: TYPE & LOCATION			
COVER & CONDUITS BONDED	H	VISORS / LOUVERS / BACK PLATE	S		
DUCT SEAL IN CONDUITS	N	MISSING HARDWARE: BOTTOM CA	APS, ETC.	SIGNS	
		HEIGHT 16'-17' TO BOTTOM		SPAN & POST MOUNT	012
		SIGHT DISTANCE (VISIBILITY)		LANE USE ARROWS	OK
SPAN POLES / MAST ARMS	TR-1103_01	UTILITY CLEARANCES		NTOR SIGNS	014
LOCATION	OC	N		STOP, STOP AHEAD, INT WARNING	N/A-
BASE GROUTED	NK			SIGNAL AHEAD	N/A
PROPER RAKE, PLUMB UNDER LOAD		PEDESTRIAN SIGNALS	TR-1102_01	FLASHING "STOP AHEAD"	N/A
HEIGHT / ARM LENGTH	OK.	CORRECT TYPE / SIZE	6K3		/
H.H. CVR. POLE CAP, BOLT CVR	N	FACING PED. TRAFFIC	014		
BONDED TO GROUND ROD	UNK	PROPER ADVISORY SIGNS	6K3	PAVEMENT MARKINGS	
I.D. TAG	UNK.			LANE ARROWS	OK
1 SPAN CLAMP PER ATTACHMENT	DK			PROPER LANE & SHOULDER WIDTH	312
				CENTER LINES	OK
	, 001			STOP BAR PLACEMENT	OK
NOTES: O SOME ALE PUSE	D +/-/			ELEPHANT TRACKS	NA
1) FOR THOSE OBSERV	(E)				
	- 1 - 1 -		1		

CITY/TOWN Wall M Red, CT JOB# DATE 2/3/12 LOCATION CONTO STE WAS OF CHAN ST

-	1
(78	+)
(00	

	CONTROLLER CABINET INVENTORY									
Component	Local Controller	Master Controller	CM / MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabinet	
Quantity		AIG)	3	N/A	NIA	4/17	l	l	
Make	Peek		Trust	Suragota			PDC	PPC	Southern	
Model #	3000		12 ELR	515 T GPZ			54-87WP	SSF-67NP	NIA	
Serial #	8232		3300	NIA			NA	4/4	W/A	

Comments: 010 Trasyt 1680EL Sitting in asimet

VEHICL	NTOR	
	Si	ize
	8,,	12"
Red	8	
Yellow	8	
Green	8	
R-Arrow		
Y-Arrow		
G-Arrow		
Comments		
All LE	D	

			PEL	-	ANTITY	NAL IN	VENTO		Приси	BUTTON	ACCEM	DIV
	Size			Illumination Method			PUSHBUTTON ASSEMBLY					
	9"	12"	16"	Countdown	Incandescent	TED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA Compliant?
1 Section - Word									Button	5		
1 Section - Symbol			8			E			Legend	5		
2 Section - Word									Audible	1		
2 Section - Symbol												

		Post		Ма	st Arm	Span Wire		
		8'	10'	Truss	Monlever	Free	Tether	
	Good					\checkmark		
Post	Fair			$\geq \leq$	><	$\geq \leq$	$\geq \!$	
	Poor			$>\!\!<$	><	$>\!\!<$	$>\!\!<$	
comr	ments:							

ea Segu. φ Set 7 8 9 3 5 6 2 4 8 Min Ø 70 40 40 Ext. 30 Max I 30 30 30 30 Max II 30 30 30 30 To 30 30 35 3,0 Yel 3.0 3,0 Red 2.0 7.0 40 CIA Walk Ped CI 17 Lock Recall Min

Sketch of intersection signal phasing and signal layout:

MOUTLET MEAN/THERMOSTAT MLAMP Substance	82 J-> 1	6,5	801 9	\$5 J
□MAST ARM ☑SPAN WIRE □ORNAMENTAL	<u>N</u> !		₩	J
VEH SIG ☑8" ☐12" Sect: ☑3 ☐4 ☐Bi ☐5 ☐DH ☐Inc ☐FO ☑LED ☐OP ☐Failure				
□Fixed ☑Freeswing □Tether Color Yolow block □Backplate ☑Visor □A	dr 80	WRM AN	Free ope	archie 24/7
PED SIG □9" □12" ☑16"	1-6	Inh Max All Peo Recy All	No Cour	anchia 24/7 dinchian eaption
DETECTION ☑Loop □Video □Magnetic □Microwave □Infrared □Failure	III Cypian	1 or s		
ADVANCE SIGNING ☑None ☐Static ☐Illuminated	Hi, regar	13/3	- 84	
NUMBER OF PHASES □2 □3 ☑4 □5 □6 □7 □8			market in the second	
LEFT-TURN ☑Perm. □Prot. □Lead □Lag □Simult	RSINB RA	XI 85 /	achin	
PED PHASE □None ☑Exclusive □Concurrent		J 12		
CYCLE LENGTH Max Min	_		7	
☑ CABINET PHOTOS				

DEPARTMENT OF TRANSPORTATION

	D L1 1				
PROJECT - LOCATIO	ON # - 2	<u>ターフィー</u> D.O.T. INSPECTO	۲ -	DATE OF NEW SERVICE CHANGE OVER DATE	****
TOWN - WAYLAGED LOCATIO	ON - PTE	150 🖣 CONTRACTOR'S F	REP JUD	CHANGE OVER DATE	
	11/50	OLCHMO ST.			
LOOP DETECTOR TEST -					
				1121 11 1000-01	
TEST INSULATION RESISTANCE (MEGG	SER) LOOP CIT	RCUIT RESISTANCE POWER INTERUPT	ION		
DATE					
DD EL TATALA DV VICUAL INCD	CCTION	(PERFORMED BY INSPECT	OP) D	ATE: 2/3/12	
PRELIMINARY VISUAL INSP	ECITON -	(PERFORMED BY INSPECT	OK)	ATE: 2/3/12	
FOUNDATIONS TO	R-1002_01	PEDESTALS	TR-1102_01	PUSH BUTTONS TR	-1107_01
CTRL FND 4" ABOVE GROUND	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	LOCATION	OK	ADA TYPE BUTTON, (2" DIA.), PIEZO	OK
CONCRETE PAD (3'X4')	V	PLUMB	OK.	42" MOUNTING HEIGHT	OŁ
CAST IN PLACE, BRUSH FINISHED		BONDED TO GROUND ROD	CNK	ACCESIBLE FROM SIDEWALK/RAMP	04
CONDUITS BONDED TO GROUND ROD	7	CRUSHED STONE IN FOUNDATION (CENTER UNK		
DUCT SEAL IN CONDUITS	ND				
		·		ADA REQUIREMENTS	
		TRAFFIC SIGNALS	TR-1105_01	CROSSWALKS	OK.
HANDHOLES	R-1010_01	SPAN LAYOUT	OL	SIDEWALK (CLEAR PATH, MIN 36")	25
FLUSH WITH GRADE	Y	PLUMB APPEARANCE	012	RAMPS W/ DETECTABLE WARNING STRIP	No
SET ON CRUSHED STONE BASE	N	FACES: TYPE & LOCATION	OK		
COVER & CONDUITS BONDED	N.	VISORS / LOUVERS / BACK PLATES	Ok		
DUCT SEAL IN CONDUITS	N	MISSING HARDWARE: BOTTOM CAPS		SIGNS	
		HEIGHT 16'-17' TO BOTTOM	01-	SPAN & POST MOUNT	040
,		SIGHT DISTANCE (VISIBILITY)	10%	LANE USE ARROWS	ļ
SPAN POLES / MAST ARMS T	R-1103_01	UTILITY CLEARANCES	olc.	NTOR SIGNS	ļ
LOCATION	OK	1		STOP, STOP AHEAD, INT WARNING	
BASE GROUTED	OK			SIGNAL AHEAD	
PROPER RAKE, PLUMB UNDER LOAD	OK	PEDESTRIAN SIGNALS	TR-1102_01	FLASHING "STOP AHEAD"	
HEIGHT / ARM LENGTH	O/C	CORRECT TYPE / SIZE	DK		
H.H. CVR. POLE CAP, BOLT CVR	N	FACING PED. TRAFFIC	OK	DAVIENENT MARKINGS	
BONDED TO GROUND ROD	UNK.	PROPER ADVISORY SIGNS	N	PAVEMENT MARKINGS	
I.D. TAG	UNK	0.16		PROPER LANE & SHOULDER WIDTH	
1 SPAN CLAMP PER ATTACHMENT	08				-
				CENTER LINES STOP BAR PLACEMENT	
		- 1 Page 1		ELEPHANT TRACKS	
NOTES: () - DNE SOM SI	DN 15 00	1 1 VOUNG		ELEPTANT TRACKS	

CITY/TOWN	JOB#	DATE	LOCATION	
-----------	------	------	----------	--

			CONTRO	LLER CABIN	IET INVEN	ITORY			
Component	Local Controller	Master Controller	CM/MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabinet
Quantity		Alu	١	6	Ald	1	5	1	
Make	Peeh		Peel	Sarsolak		3M	PDC	PDC	Peels
Model #	3000		IZELRA	222 GP6		752 Ophican	Mode 700	Model 204	૧૫૧ 4
Serial #	101818		201010056			AIM	N/A	Ala	WZZ83

VEHICLI	E SIG	
	S	ize
	8"	12"
Red		
Yellow		
Green		
R-Arrow		
Y-Arrow		
G-Arrow		
Comments:		

PEDESTRIAN SIGNAL INVENTORY												
	QUANTITY								PUSHBUTTON ASSEMBLY			
	Size				Illumination Method				1 doilborron Addining			
	9"	12"	16"	Countdown	Incandescent	TED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA Compliant?
1 Section - Word				-					Button			
1 Section - Symbol									Legend			
2 Section - Word								,	Audible			
2 Section - Symbol												
Comments:												

		SIGNA	L SUF	PPORT	INVENTOF	tY	
		Post		Mast Arm		Span Wire	
		8'	10'	Truss	Monlever	Free	Tether
М	ast Arm		3			✓	ING
Post	8'						
9	Poor						

									_
φ Set	1	2	3	4	5	6	7	8	9
Min									
Ext. Max I									
Max I									
Max II									
Yel									
Red									
Walk									
Ped CI									
Lock							<u> </u>		
Recall									

85

79

79

79

Free 4/1/1 Free

Free

36

36

0100 - 0100 9100 - 15100 9100 - 75100

Sun 0100-24100

SAT.

36 29

Sketch of intersection and signal layout:

	T OFAN OLAMP ARM OSPAN WIRE CORNAMENTAL	Source	closed loop	Cycle # 55%	58
VEH SIG	□8" ☑12" Sect. □3 □4 □Bi □5	Sphil 0/S	v)	1	30
	☐Inc ☐FO ☑LED ☐OP ☐Failure☐Fixed ☑Freeswing ☐Tether☐Oloryclov☐Backplate ☑Visor	0/5 Free	N N	7	30
PED SIG	□9" □12" ☑16"	Flui	h	3	30
	□Inc □FO ☑LED □Failure □Word ☑Symbol □Red/Yellow ☑Pushbutton ☑Audible □Failure	Yield		U	30
DETECT		Shoo			
	E SIGNING ☑N □Static □Illuminated OF PHASES □2 □3 □4 □5 □6	ID 6	Mon Or	P Fri. 100 - 6130 Free	
LEFT TUF PED PHA	RN Perm Prot Dead Dag DsimuliSE DN Exclusive DConcurrent	t	9	30-9100 1/1/1 100-15100 3/1/1 5(00-18:30 7/1/1	
CYCLE LE	ENGTH Max Min		16	1120-24100 Free	

BET	A	Group, Inc.
Engineers	. Sc	lentists . Planners

Project:

City:

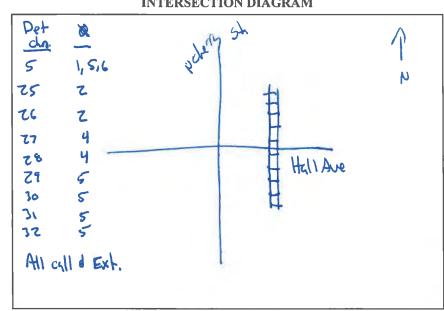
H. chery St. Location: Hell Ave @ SIGNAL TIMING SHEET

Sheet: 29T

By:

Date: 1/18/2012

INTERSECTION DIAGRAM



CowoTherw Pretimed	X
Semi-Actuated	
Fully-Actuated	X

NOTES:

8 phase Segu. time in cortallar good

OVERLAPS

	A	В	С	D
Phases	2,5,4,5			

PRE-EMPTION

		_		
P	hases			

TIME OF DAY SETTINGS

Cycle 1	WAXI	
Time Period:	AM	
Cycle Length:	50	Mh 30
Offset:	37	
Cycle T l	MXXIII	
Time Period:	Pm	
Cycle Length:	60	Mmzo
Offset:	21	
Cycle 3 6	WXIII	
Time Period:	MUD	5
Cycle Length:	50	Min 30
Offset:	17	

	P	HASE	TIMI	ES				
Phase	سلر	2	3	4	5	5	7	8
<u>L</u> ock / <u>NL</u> ock		CVA	pL	ML	PL			
Recall (Max, Min, None)		Min.						
Walk		9	7					
Don't Walk		1	10					
Min Green		8	6	8	6			
Extension		7.0	0,0	7.0	7.0			
Recall Green								
Max I Green		30	0	17	24			
Max II Green		30	0	10	75			
Max III Green								
Yellow		30	Oil	30	30			
All Red		20	0,0	1,0	2.0			
Total Split I								
Total Split II								

52 4	103	an 3	De Fr. J
<u> </u>	^	•	4 1

DEPARTMENT OF TRANSPORTATION

PROJECT - LOCATI	ON # - 29 ON - ET !	D.O.T. INSPECTOR - 50 & JOHN CONTRACTOR'S REP.	116	DATE OF NEW SERVICE CHANGE OVER DATE	
LOOP DETECTOR TEST - TEST INSULATION RESISTANCE (MEG DATE		D BY CONTRACTOR) SEE STAN	NDARD S	HEET TR-1000_01	
PRELIMINARY VISUAL INS	PECTION -	(PERFORMED BY INSPECTOR)	D	ATE: 1/18/12	
FOUNDATIONS CTRL FND 4" ABOVE GROUND CONCRETE PAD (3'X4') CAST IN PLACE, BRUSH FINISHED	TR-1002_01	PEDESTALS TR LOCATION PLUMB BONDED TO GROUND ROD	0K 0K 0K UUK.	PUSH BUTTONS T ADA TYPE BUTTON, (2" DIA.), PIEZO 42" MOUNTING HEIGHT ACCESIBLE FROM SIDEWALK/RAMP	R-1107_ OK 6K OK
CONDUITS BONDED TO GROUND ROD DUCT SEAL IN CONDUITS	7	CRUSHED STONE IN FOUNDATION CENTER TRAFFIC SIGNALS TR-	-1105_01	ADA REQUIREMENTS CROSSWALKS	\
HANDHOLES FLUSH WITH GRADE SET ON CRUSHED STONE BASE	TR-1010_01	SPAN LAYOUT PLUMB APPEARANCE FACES: TYPE & LOCATION	OK.	SIDEWALK (CLEAR PATH, MIN 36") RAMPS W/ DETECTABLE WARNING STRIP	\ \
COVER & CONDUITS BONDED DUCT SEAL IN CONDUITS	N	VISORS / LOUVERS / BACK PLATES MISSING HARDWARE: BOTTOM CAPS, ETC HEIGHT 16'-17' TO BOTTOM SIGHT DISTANCE (VISIBILITY)	OK.	SIGNS SPAN & POST MOUNT LANE USE ARROWS	OK (
SPAN POLES / MAST ARMS LOCATION BASE GROUTED	TR-1103_01 OK OF	UTILITY CLEARANCES	014(4)	NTOR SIGNS STOP, STOP AHEAD, INT WARNING SIGNAL AHEAD	12/A 12/A
PROPER RAKE. PLUMB UNDER LOAD HEIGHT / ARM LENGTH H.H. CVR. POLE CAP, BOLT CVR	OK OK	PEDESTRIAN SIGNALS M//L TR- CORRECT TYPE / SIZE FACING PED. TRAFFIC PROPER ADVISORY SIGNS	0K, 0K	FLASHING "STOP AHEAD" PAVEMENT MARKINGS	N/A
BONDED TO GROUND ROD I.D. TAG 1 SPAN CLAMP PER ATTACHMENT	UNK.	PROPER ADVISORT SIGNS		LANE ARROWS PROPER LANE & SHOULDER WIDTH CENTER LINES	OKE
NOTES: (1) SME 429 - SOM.	OR YES	OTHERS NO.		STOP BAR PLACEMENT ELEPHANT TRACKS	OK N/A
(4) - APPEARS UTILITY FOR POLE TO	POLE #2	ANING	30096		

6 WOLN

REV'D 3-11 CADD FLASH-ELEC-CHKLSTCO.DGN

SIGNAL EQUIPMENT EVALUATION FORM

DATE 1/18/12 LOCATION Hall Are @ Washing lan St _JOB#____ CITY/TOWN

	-	-
21	17	7
2	_	

CONTROLLER CABINET INVENTORY										
Component	Local Controller	Master Controller	CM / MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabinet	
Quantity	N	A/4	1	6	p/A	١	5/12	1	1	
Make	Pech		Peeh	Scresote		34	PPC	PDC	Peek	
Model #	3000 E		Double Diarno			Option 752	555-87 WP	SSF-87UP	9445	
Serial #	NA		NIA	Ald		N/A	AJU	10/A	V02282	

VEHICLE SIGNAL INVENTORY								
	Si	ze						
	8"	12"						
Red		9						
Yellow		9						
Green		9						
R-Arrow								
Y-Arrow								
G-Arrow								

Y/G Array	1 (12")
-----------	---------

Comments:

			PEI											
- 1		QUANTITY									PUSHBUTTON ASSEMBLY			
		S	ize			Illumination Method				BOTTON	AOOLIVI	DL.		
	9"	12"	16"	Countdown	Incandescent	TED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA Compliant?		
1 Section - Word									Button	4	4	4		
1 Section - Symbol			8	0	8				Legend	4				
2 Section - Word									Audible	_\				
2 Section - Symbol							_							

Comments:

		SIGNA	L SUI	PPORT	NVENTOF	RY		
		Post		Ma	st Arm	Span Wire		
		8'	10'	Truss	Monlever	Free	Tether	
N	Mast Arm		3			V		
Post	8'							
9	Poor							

Comments:

□MAST A	「☑FAN ☑LAMP RM ☑SPAN WIRE □OF □8" ☑12" Sect. ☑3 ☑4	RNAMENTAL	Det	8
VEH SIG			1	7
PED SIG	□Fixed ☑Freeswing □ Color Yellow □Backp □9" □12" ☑16"	Tether late ⊠Visor	3	7
1 LD GIG	Minc OFO OLED OFa		٩	1,7
	☑Pushbutton ☑Audible	□Failure	10	5 ₁ /
DETECT	✓Loop □Magnetic □Vi □Microwave □Infrared		J.	7
		Emma dia ataut	13	4
ADVANCE NUMBER	E SIGNING ☑N □Static OF PHASES □2 □3 ☑	,⊔IIIuminated 4 □5 □6	15 15	4
			14	4
LEFT TUF	RN ☑Perm ☑Prot ☑Lead SE □N ☑Exclusive □Co	l □Lag □Simu oncurrent	t 75	1,2
ILDITIA	OL LIV BEXOIDENO LO	SHOGHOM	77	7
CYCLE LE	ENGTH Max	_ Min	7	7244
				37 4

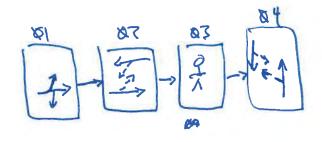
Actuated un coordinated Signal

8 & Sequ.

1	2	3	4	5	6	7	8	9
8	10	1	8					
4,0	4,0	0.1	4,0					
10	70	3	70					
30	30	30	30					
4.0	4.0	7.0	4,0					
2.0	7.0	0.0	20					
		7						
		10						
	Max							
	4,0 10 30 4.0	1 2 8 10 4,0 4,0 10 70 30 30 4.0 4,0 7.0 7.0	1 2 3 8 10 1 4,0 4,0 0,1 10 70 30 30 30 30 4,0 4,0 3,0 7 10	1 2 3 4 8 10 1 8 4,0 4,0 0,1 4,0 10 70 30 70 30 30 30 30 4,0 4,0 3,0 4,0 7 10	1 2 3 4 5 8 10 1 8 4,0 4,0 0,1 4,0 10 70 30 70 30 30 30 30 4,0 4,0 3,0 4,0 7 10	1 2 3 4 5 6 8 10 1 8 4,0 4,0 0,1 4,0 10 70 30 70 30 30 30 30 4,0 4,0 3,0 4,0 7 10 7	1 2 3 4 5 6 7 8 10 1 8 4.0 4.0 0.1 4.0 10 70 30 70 30 30 30 30 4.0 4.0 3.0 4.0 7 10 10	1 2 3 4 5 6 7 8 8 10 1 8 4,0 4,0 0,1 4,0 10 70 30 70 30 30 30 30 4.0 4,0 1,0 1,0 1 7 10 10 10 10 10 10 10 10 10 10 10 10 10

Sketch of intersection and signal layout:

OLA = 1,2 018 = 2



const call on sys Dot ..

Constant all an Stop bar Pet on Hall Aue WB

					_
	DEPA	ARTMENT OF TR	ANSPORTATI	ION	
DDOJECT LOCATI	201 # 3	P-T DOTINGDE	CTOP -	DATE OF NEW SERVICE -	
TOWN LOCATION		D.O.T. INSPEC	'C DED _ +1/2-	CHANGE OVED DATE -	
TOWN - WHILL FOUR LOCATIO	ر <i>ه</i> ما – ۱۱۷ –	TIGO ST CONTRACTOR	5 KEP JUS	DATE OF NEW SERVICE CHANGE OVER DATE	
•	1 1	E 150 (ANTI ME)			
LOOP DETECTOR TEST -	(PERFORM	ED BY CONTRACTOR) S	SEE STANDARD SH	HEET TR-1000_01	
TEST INSULATION RESISTANCE (MEG	GER) LOOP CI	RCUIT RESISTANCE POWER INT	ERUPTION		
DATE					
- 10 · · · · · · · · · · · · · · · · · ·			-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C	1,01,3	
PRELIMINARY VISUAL INSP	PECTION -	(PERFORMED BY INSP	ECTOR) DA	TE: 1/19/12	
FOUNDATIONS T	R-1002_01	PEDESTALS	TR-1102_01		-1107_01
CTRL FND 4" ABOVE GROUND	Y	LOCATION	OK	ADA TYPE BUTTON, (2" DIA.), PIEZO	6K
CONCRETE PAD (3'X4')	4	PLUMB	OK	42" MOUNTING HEIGHT	OK
CAST IN PLACE, BRUSH FINISHED	4	BONDED TO GROUND ROD	UNK	ACCESIBLE FROM SIDEWALK/RAMP	OK
CONDUITS BONDED TO GROUND ROD	Y	CRUSHED STONE IN FOUNDAT	ION CENTER UNK.		<u></u>
DUCT SEAL IN CONDUITS	7	110			
	1	•		ADA REQUIREMENTS	- 6
		TRAFFIC SIGNALS	TR-1105_01	CROSSWALKS	OK 3
HANDHOLES 1	TR-1010_01	SPAN LAYOUT	OK	SIDEWALK (CLEAR PATH, MIN 36")	OK
FLUSH WITH GRADE	40	PLUMB APPEARANCE	OK	RAMPS W/ DETECTABLE WARNING STRIP	y3
SET ON CRUSHED STONE BASE	VO	FACES: TYPE & LOCATION	OK		
COVER & CONDUITS BONDED	40	VISORS / LOUVERS / BACK PL			
DUCT SEAL IN CONDUITS	1/3	MISSING HARDWARE: BOTTOM	CAPS, ETC. DK	SIGNS	
		HEIGHT 16'-17' TO BOTTOM	716	SPAN & POST MOUNT	OK
		SIGHT DISTANCE (VISIBILITY)	OC	LANE USE ARROWS	12/N.
SPAN POLES / MAST ARMS T	R-1103_01	UTILITY CLEARANCES	814	NTOR SIGNS	N/M
LOCATION	OK	1		STOP, STOP AHEAD, INT WARNING	N/M
BASE GROUTED	OK			SIGNAL AHEAD	N/1-
PROPER RAKE, PLUMB UNDER LOAD	OK	PEDESTRIAN SIGNALS	TR-1102_01	FLASHING "STOP AHEAD"	N/V
HEIGHT / ARM LENGTH	DIL	CORRECT TYPE / SIZE	OK		
H.H. CVR. POLE CAP, BOLT CVR	OIL	FACING PED. TRAFFIC	OC		
BONDED TO GROUND ROD	UNK.	PROPER ADVISORY SIGNS	OK	PAVEMENT MARKINGS	· · · · · · · · · · · · · · · · · · ·
I.D. TAG	UNK			LANE ARROWS	NA
1 SPAN CLAMP PER ATTACHMENT	OK			PROPER LANE & SHOULDER WIDTH	BK
				CENTER LINES	OK
				STOP BAR PLACEMENT	011

NOTES: () NOT PER PLANS
(2) FOR THOSE OBSERVED.
(3) NEW LAMPS
(4) BAD COND.

REV'D 3-11 CADD FLASH-ELEC-CHKLSTCO.DGN

CHOSS WALLS

SIGNAL EQUIPMENT EVALUATION FORM

JOB#_____DATE___LOCATION Half Are (Ruck 100) @ Massaic the / Fire statute 32T) CITY/TOWN

CONTROLLER CABINET INVENTORY											
Component	Local Controller	Master Controller	CM / MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabinet		
Quantity	1	AlA	1	103	4/4		5	\	l		
Make	Transyt		Transyt	Garasota		Direct Wire	PDC	299	NIA		
Model #	1890 EL		W. 36 1200	SIFT GP2		to Fraston	555-87WP	SSF-87NP	AJY		
Serial #	NA		A) V	NIA					NIA		
Comments:			1 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	LAPMON		<u> </u>					

VEHICLE SIGNAL INVENTORY								
	9	ize						
	8" 1:							
Red	0	07						
Yellow	(4)	(2)7						
Green	(1)	7						
R-Arrow								
Y-Arrow								
G-Arrow								
Comments (Fire S	whi.)	nto cooks;						

		200000	PEL				-						
	Size				ANTITY	Illumination Method				PUSHBUTTON ASSEMBLY			
	9"	12"	16"	Countdown	Incandescent	TED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA Compliant?	
1 Section - Word									Button				
1 Section - Symbol				1					Legend				
2 Section - Word									Audible				
2 Section - Symbol				•			,						

Comments: No Pa) heads or push buttons

		Post Mast Arm Span Wire									
		P	ost	Ма	st Arm	Spa	n Wire				
	- 1,1-1	8'	10'	Truss	Monlever	Free	Tether				
N	Mast Arm					✓					
Post	8'										
P.	Poor										
Com	ments:					·					

									_
φ Set	1	2	8	4	.8	8	7	8	8
Min	10	25		10					
Ext.	3.0	4.0		3.0					
Max I	15	35		75					
Max II	30	25		75					
Yel	3.0	3.0		20		<u></u>			
Red	1.0	2.0		1.0					
Walk				8	9				
Ped CI				10					
Lock									<u> </u>
Recall		MA							

Sketch of intersection and signal layout:

OUTLE"	T DEAN CLAMP
□MAST A	ARM SPAN WIRE CORNAMENTAL
VEH SIG	☑8" ☑12" Sect. ☑3 ☑4 □Bi □5
	□Inc □FO □LED □OP □Failure
	□Fixed ☑Freeswing □Tether Color ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
	Color Great Yolu □ Backplate ☑Visor
PED SIG	□9" □12" □16"
hove	□Inc □FO □LED □Failure
60.	□Word □Symbol □Red/Yellow
	□Pushbutton □Audible □Failure
DETECT	☑Loop □Magnetic □Video
	☐Microwave ☐Infrared ☐Failure
	7.0
ADVANCE	E SIGNING ☑N □Static □Illuminated

ADVANCE SIGNING ☑N □Static □Illuminated NUMBER OF PHASES □2 ☑3 □4 □5 □6

LEFT TURN ☑Perm ☐Prot ☐Lead ☐Lag ☐Simult PED PHASE ☑N ☐Exclusive ☐Concurrent

OLA = 1,2 OLB = 2,4

Propriest A FUI

Amp? EB works with Dolog (2 see)
Amp? EB works with Dolog (2 see)

CYCLE LENGTH Max_____ Min____

	DEPA	RTMENT OF TRANSP	ORTATI	ON	
PROJECT - LOCATION - WALLING FORD LOCATION	ON # - 32 ON - HALL	D.O.T. INSPECTOR - CONTRACTOR'S REP.	- JLB	DATE OF NEW SERVICE CHANGE OVER DATE	
LOOP DETECTOR TEST -		D BY CONTRACTOR) SEE STA	NDARD SH	IEET TR-1000_01	
	SER) LOOP CIR	CUIT RESISTANCE POWER INTERUPTION			
DATE					
				A 1	
PRELIMINARY VISUAL INSP	ECTION -	(PERFORMED BY INSPECTOR)	DA	TE: 1/20/1Z	
FOUNDATIONS T	R-1002_01	PEDESTALS TF	R-1102_01	PUSH BUTTONS TR	-1107_01
CTRL FND 4" ABOVE GROUND		LOCATION	NA	ADA TYPE BUTTON, (2" DIA.), PIEZO	N/A
CONCRETE PAD (3'X4')	7	PLUMB		42" MOUNTING HEIGHT	
CAST IN PLACE, BRUSH FINISHED	7	BONDED TO GROUND ROD		ACCESIBLE FROM SIDEWALK/RAMP	
CONDUITS BONDED TO GROUND ROD	7	CRUSHED STONE IN FOUNDATION CENTER	1		
DUCT SEAL IN CONDUITS	4	7/E			
	1/			ADA REQUIREMENTS	
		TRAFFIC SIGNALS TR	-1105_01	CROSSWALKS	N/A.
HANDHOLES T	R-1010_01	SPAN LAYOUT	016	SIDEWALK (CLEAR PATH, MIN 36")	
FLUSH WITH GRADE	1010101	PLUMB APPEARANCE	DK	RAMPS W/ DETECTABLE WARNING STRIP	V
SET ON CRUSHED STONE BASE	10	FACES: TYPE & LOCATION	014		
COVER & CONDUITS BONDED		VISORS / LOUVERS / BACK PLATES	DK		
DUCT SEAL IN CONDUITS	N	MISSING HARDWARE: BOTTOM CAPS, ETC.	OK	SIGNS	
		HEIGHT 16'-17' TO BOTTOM	OK.	SPAN & POST MOUNT	N/A
		SIGHT DISTANCE (VISIBILITY)	NC	LANE USE ARROWS	NA
SPAN POLES / MAST ARMS T	R-1103_01	UTILITY CLEARANCES	DK.	NTOR SIGNS	NA
LOCATION	NA.	4		STOP, STOP AHEAD, INT WARNING	NA
BASE GROUTED	N/A-	ì		SIGNAL AHEAD	N/A
PROPER RAKE, PLUMB UNDER LOAD		PEDESTRIAN SIGNALS TR	-1102_01	FLASHING "STOP AHEAD"	12/1
HEIGHT / ARM LENGTH		CORRECT TYPE / SIZE	NA		
H.H. CVR. POLE CAP, BOLT CVR		FACING PED. TRAFFIC			
BONDED TO GROUND ROD		PROPER ADVISORY SIGNS	T	PAVEMENT MARKINGS	
I.D. TAG				LANE ARROWS	NA
1 SPAN CLAMP PER ATTACHMENT		4		PROPER LANE & SHOULDER WIDTH	
				CENTER LINES	
				STOP BAR PLACEMENT	
NOTES: (1) FOR THOSE OBSE	RUEY			ELEPHANT TRACKS	V
@ WOOD UTIL. POLE					

REV'D 3-11 FLASH-ELEC-CHKLSTCO.DGN

SIGNAL EQUIPMENT EVALUATION FORM

CITY/TOWN	JOB#	DATE	LOCATION S. Turph	@ Cook Hill RU	54 T)
01117101111						

	CONTROLLER CABINET INVENTORY										
Component	Local Controller	Master Controller	CM / MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabinet		
Quantity		A/d	1 Peek	11	4/4	1	4/12	1	1		
Make	Prek		¥	Sarroh		3M	PDC	Poc	Peek		
Model #	3000		Double Diamed	535T		Option 567	555-874P	SSF-674P	5187		
Serial #	170138		1090707	A\u		A\u	N/A	p/A	964380-1		

Comments:

VEHICLE SIGNAL INVENTORY								
	Si	ze						
	8"	12"						
Red	1	7						
Yellow	1	7						
Green	1	7						
R-Arrow								
Y-Arrow								
G-Arrow		1						
Comments	•							

				QUA	ANTITY				DUCH	DUTTON	ACCEM	DIV
	Size				Illuminatio	n Method	1	PUSH	BUTTON ASSEMBLY			
	9"	12"	16"	Countdown	Incandescent	CED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA Compliant?
1 Section - Word									Button	Z	7	2
1 Section - Symbol									Legend	Z		
2 Section - Word									Audible			
2 Section - Symbol												

Comments:

DIA DI PRA DEG DUA DU DUC DIB SDI SDR SD OMA DI WILL D'T I'S an

	SIGNA	L SUI	PPORT	INVENTOF	RY	
	P	Post		st Arm	Span Wire	
	8'	10'	Truss	Monlever	Free	Tether
Mast Arm					✓	
Post 8						
Poor						

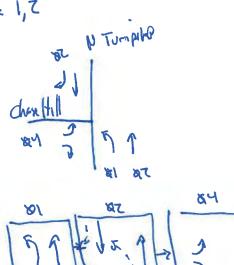
MOUTLET MEAN MLAMP DMAST ARM MSPAN WIRE DORNAMENTAL	Det 8	
VEH SIG ☑8" ☑12" Sect ☑3 ☑4 ☐Bi ☐5 ☐Inc ☐FO ☑LED ☐OP ☐Failure	17	
□Fixed □Freeswing □Tether	18 4	
□Fixed □Freeswing □Tether Color ★ □ □Backplate □Visor	19 4	
PED SIG 🗆9" 🗆12" 🗆16"	w	•
□Inc □FO □LED □Failure □Word □Symbol □Red/Yellow	ت ان	7
	- 35 - 25	
DETECT MLoop □Magnetic □Video	79	-
☐Microwave ☐Infrared ☐Failure	75	1
ADVANCE SIGNING ☑N ☐Static ☐Illuminated	76	7
NUMBER OF PHASES D2 2 3 D4 D5 D6	-	2
	78	4
LEFT TURN ☑Perm ☑Prot ☑Lead □Lag □Simult PED PHASE □N □Exclusive ☑Concurrent	71	4
PED PHASE □N □Exclusive ☑Concurrent	70	-
	31	-
	Js	
CYCLE LENGTH Max Min	3 sys	Pet

Olma a	1 000	w 0 · (, 15	00 1			11		_	- 12.
885	efu.				Cour	8 %	, 40	P	ree	operation
φ Set	1	2	13	4	15	6	7	8	Ø	
Min	5	15		7						
Min Ext. Max I	7.0	4.0		3.0						
Max I	17	25		31						
Max II	15	35		25						
Yel	3.0	3.0		3,0						
Red	1.0	7.0		2.0		<u></u>	<u></u>			
Walk _				12						
Ped CI				-1						
Lock	NL		4	NL						
Max II Yel Red Walk Ped CI Lock Recall		Min								

Sketch of intersection and signal layout:

Prient Rul Chese Hill Road

OLA= 1,2



DEPARTMENT OF TRANSPORTATION

	וחת	AICTIVIDICE OF TICITIVE			
PROJECT - LOCATI	10N # - 5	4-T D.O.T. INSPECTOR	- 5	DATE OF NEW SERVICE CHANGE OVER DATE	
TOWN - WALLNGFORD LOCATI	ION - Sout	IL TURN PIKE CONTRACTOR'S RE	P TLPS	CHANGE OVER DATE	
	RO	AT GOK MIL RO.			
			TANDARD C	SULEET TR 1000 01	
LOOP DETECTOR TEST -	(PERFORM	IED BY CONTRACTOR) SEE S	TANDARD S	PHEEL IK-1000-01	
TEST INSULATION RESISTANCE (MEG	GGER) LOOP (IRCUIT RESISTANCE POWER INTERUPTION	N		
DATE					
		(DEDEADLED DV INCDECTO	D) D	ATE: 1/20 /23	
PRELIMINARY VISUAL INS	PECITON -	(PERFORMED BY INSPECTO	R) D	PATE: 1/20/12	
FOUNDATIONS	TR-1002_01	PEDESTALS	TR-1102_01	PUSH BUTTONS T	R-1107_01
CTRL FND 4" ABOVE GROUND	TR-1002_01	LOCATION	OKG	ADA TYPE BUTTON, (2" DIA.), PIEZO	DK.
CONCRETE PAD (3'X4')	- 	PLUMB	OK	42" MOUNTING HEIGHT	614.
CAST IN PLACE, BRUSH FINISHED	1/1	BONDED TO GROUND ROD	UNK	ACCESIBLE FROM SIDEWALK/RAMP	N
CONDUITS BONDED TO GROUND ROD		CRUSHED STONE IN FOUNDATION CEI	NTER UNK		
DUCT SEAL IN CONDUITS	4				
				ADA REQUIREMENTS	
		TRAFFIC SIGNALS	TR-1105_01	CROSSWALKS	N/A.
HANDHOLES	TR-1010_01	SPAN LAYOUT	OK	SIDEWALK (CLEAR PATH, MIN 36")	1
FLUSH WITH GRADE	YO	PLUMB APPEARANCE	02	RAMPS W/ DETECTABLE WARNING STRIP	1
SET ON CRUSHED STONE BASE	1/2	FACES: TYPE & LOCATION	OK		
COVER & CONDUITS BONDED	43	VISORS / LOUVERS / BACK PLATES	014		
DUCT SEAL IN CONDUITS	1/12	MISSING HARDWARE: BOTTOM CAPS,	ETC. OK	SIGNS	1016
	/ 0	HEIGHT 16'-17' TO BOTTOM	OK	SPAN & POST MOUNT	02(5)
		SIGHT DISTANCE (VISIBILITY)	OK	LANE USE ARROWS	012
SPAN POLES / MAST ARMS	TR-1103_01	UTILITY CLEARANCES	DK	NTOR SIGNS	N/M
LOCATION	6K			STOP, STOP AHEAD, INT WARNING	Nm
BASE GROUTED	OK	DED COMPANY CYCHAIG	TD 4400 04	SIGNAL AHEAD FLASHING "STOP AHEAD"	N/M
PROPER RAKE, PLUMB UNDER LOAD	OK	PEDESTRIAN SIGNALS	TR-1102_01	FLASHING STOP AREAD	10/1
HEIGHT / ARM LENGTH	OK	CORRECT TYPE / SIZE	N/A		
H.H. CVR. POLE CAP, BOLT CVR	6K	FACING PED. TRAFFIC PROPER ADVISORY SIGNS	N/A-	PAVEMENT MARKINGS	
BONDED TO GROUND ROD	UNK.	PROPER ADVISORY SIGNS	NA	LANE ARROWS	DK
I.D. TAG 1 SPAN CLAMP PER ATTACHMENT	UNE			PROPER LANE & SHOULDER WIDTH	DL
1 SPAN CLAMP PER ATTACHMENT	OK			CENTER LINES	OK.
3				STOP BAR PLACEMENT	OK
NOTES: (1) SEVERA H.H. N.	T KNUND	IN FIED		ELEPHANT TRACKS	NA
FOR THOSE OBS	20/20				7
(3) NOT COVERS				ı	
(9) NOT ADA M	CLCS BUT				
	-	0 - 1			
(5) LANE USE SIDA	· Missing	@ SB Cook Ihu.			Thurs
	,				
				and the second s	(1)

FLASH-ELEC-CHKLSTCO.DGN

SIGNAL EQUIPMENT EVALUATION FORM

CITY/TOWN	JOB#	DATE	LOCATION STumple Rd @ disting Rd	(551)

			CONTRO	LLER CABIN	IET INVEN	NTORY			
Component	Local Controller	Master Controller	CM / MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabinet
Quantity		Alu	1	2	Aly	١	5/12	1	1
Make	Rech		Peeh	Saresofy		3M	PPC	Ppc	govern Ma
Model #	3000		IZELRA	1-5157 GP2 1-5357		optican 562	555-87WP	SSF-87WP	NJA
Serial #	AIU		Alu			441	Ald	N/A	N/A

	Y
Si	ze
8"	12"
4	2
4	7
4	7
	0
	l
	1
	8" 4

			I a last		ANTITY	NAL IN			DUCI	DUTTON	ACCEM	DIV
	Size				Illumination Method			PUSHBUTTON ASSEMBLY			DLI	
	9"	12"	16"	Countdown	Incandescent	TED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA Compliant?
1 Section - Word				<u> </u>					Button			
1 Section - Symbol							_		Legend			
2 Section - Word									Audible			
2 Section - Symbol												

Comments: No Ped Signals or bottons

onit 81 if 82 is a

	;	SIGNA	L SUF	PPORT	INVENTOF	RY	
		Post		Post Mast Arm		Span Wire	
1		8'	10'	Truss	Monlever	Free	Tether
М	ast Arm						
Post	8'						
Pc	Poor						

88	sequ.								
φ Set	1	2	3	4	5	8	7	8	9
Min	5	15	7		6				
Ext.	20				3.0				
Max I	0	18	7		24				
Max II	10	21	7		24				
Yel	3.0	6.1	7.0		3.0				
Red	0.1	0.0	20		1.0				
Walk		9							
Ped CI		1							
Lock	hr		UL			;			
Recall		Max	Min						

Sketch of intersection and signal layout:

□Fixed □Freeswing □Tether Color Color □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	JUAT X JOHN X X JOHN X X JOHN Rey X X COURT Physe X		× × × × × × × × × × × × × × × × × × ×	rus ce
Unc □FO □LED □Failure □Word □Symbol □Red/Yellow □Pushbutton □Audible □Failure □ETECT ☑Loop □Magnetic □Video	Cyde	split all	•	8) 45 TO
□Microwave □Infrared □Failure OCB = 2,3	(l u	16 55	C C
ADVANCE SIGNING IN Static Villuminated NUMBER OF PHASES \$\omega\$ 12 \$\omega\$3 \$\omega\$4 \$\omega\$5 \$\omega\$6	2	l n	18 76	19 37 75
LEFT TURN Perm Prot Dead Dag Simult PED PHASE N Desclusive Concurrent Plant 7 days) sιω \/\(\	8280 11	}	
CYCLE LENGTH Max Min 15100 -		deshie Q5 3	E P	
deshie 10 Det Malinchairg	>(00 () () ()	Ø2 3	1 85 807	Sup 81882

DEPARTMENT OF TRANSPORTATION

DDOJECT	TON #	F. T. DOT INSPECT	:OD	DATE OF NEW CERVICE	
TOWN - LOCAT	ION #	D.U.T. INSPECT	DED - 118	DATE OF NEW SERVICE CHANGE OVER DATE	
LOCAT	1014 - 30W	& ALLECHOLD RO	KLF. JOS	CHANGE OVER DATE	
LOOP DETECTOR TEST -	(PERFORM	MED BY CONTRACTOR) SE	E STANDARD S	HEET TR-1000_01	
TEST INSULATION RESISTANCE (ME	GGERY LOOP (CIRCUIT RESISTANCE POWER INTER	UPTION		
DATE DATE	IGGER) LOOP C	SINCOTT RESISTANCE TOTAL TITLE			
DATE					
				A	
PRELIMINARY VISUAL INS	SPECTION -	(PERFORMED BY INSPEC	CTOR) D	ATE: 1/20/12	
					TD 4407 04
FOUNDATIONS	TR-1002_01	PEDESTALS	TR-1102_01	PUSH BUTTONS	TR-1107_01
CTRL FND 4" ABOVE GROUND	Y	LOCATION	N/A	ADA TYPE BUTTON, (2" DIA.), PIEZO	N/A
CONCRETE PAD (3'X4')	Y	PLUMB		42" MOUNTING HEIGHT	
CAST IN PLACE, BRUSH FINISHED	У,	BONDED TO GROUND ROD		ACCESIBLE FROM SIDEWALK/RAMP	
CONDUITS BONDED TO GROUND ROD	4	CRUSHED STONE IN FOUNDATION	V CENTER V		
DUCT SEAL IN CONDUITS	<u> </u>			ADA DEGUIDEMENTS	
				ADA REQUIREMENTS	1
		TRAFFIC SIGNALS	TR-1105_01	CROSSWALKS	WIA
HANDHOLES	TR-1010_01	SPAN LAYOUT	0K	SIDEWALK (CLEAR PATH, MIN 36")	110
FLUSH WITH GRADE	<u> </u>	PLUMB APPEARANCE	OK	RAMPS W/ DETECTABLE WARNING STR	(IP V
SET ON CRUSHED STONE BASE	UNZ.	FACES: TYPE & LOCATION	OK.		
COVER & CONDUITS BONDED	UNK.	VISORS / LOUVERS / BACK PLATE			
DUCT SEAL IN CONDUITS	JNK.	MISSING HARDWARE: BOTTOM C		SIGNS	
		HEIGHT 16'-17' TO BOTTOM	OK	SPAN & POST MOUNT	OL
		SIGHT DISTANCE (VISIBILITY)	OK	LANE USE ARROWS	OK
SPAN POLES / MAST ARMS	TR-1103_01	UTILITY CLEARANCES	OK	NTOR SIGNS	N/A
LOCATION	OK	· · · · · · · · · · · · · · · · · · ·		STOP, STOP AHEAD, INT WARNING	016.
BASE GROUTED	OK			SIGNAL AHEAD	olc.
PROPER RAKE, PLUMB UNDER LOAD	OK	PEDESTRIAN SIGNALS	TR-1102_01	FLASHING "STOP AHEAD"	016
HEIGHT / ARM LENGTH	014	CORRECT TYPE / SIZE	N/A		
H.H. CVR. POLE CAP, BOLT CVR	OK	FACING PED. TRAFFIC			
BONDED TO GROUND ROD	UNK.	PROPER ADVISORY SIGNS		PAVEMENT MARKINGS	
I.D. TAG	У			LANE ARROWS	NA
1 SPAN CLAMP PER ATTACHMENT	4			PROPER LANE & SHOULDER WIDTH	816
	/			CENTER LINES	DIL.
				STOP BAR PLACEMENT	016.
NOTES:				ELEPHANT TRACKS	N/A
		AL.			
				10	

REV'D 3-11 CADD FLASH-ELEC-CHKLSTCO.DGN

SIGNAL EQUIPMENT EVALUATION FORM

1	1
1567	フ
(

CITY/TOWN	JOB#	DATE	_LOCATION	

	CONTROLLER CABINET INVENTORY									
Component	Local Controller	Master Controller	CM/MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabinet	
Quantity		Alq	\	12	N/A	1	6/12	1	l	
Make	Peeh		Transit	Saniota		3A	PPC	PPC	Prek	
Model #	3000		12 EL	535T		Option 562	SSS-87WP	SSF-87WP	5410	
Serial #	N/A		N/A	NIA		NIA	N/A	N/A	W/A	

Comments:

VEHICL INVE	E SIG	
	S	ize
	8"	12"
Red		W
Yellow		10
Green		lo
R-Arrow		
Y-Arrow		1
G-Arrow		4
Comments	:	

Als Dans	
----------	--

			PE	DESTRI	AN SIG	NAL IN	VENTO	RY			Carlos E	
	QUANTITY								PUSHBUTTON ASSEMBLY			
	Size				Illuminatio	n Metho	d	POSHBOTTON ASSEMBLT				
	9"	12"	16"	Countdown	Incandescent	LED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA Compliant?
1 Section - Word									Button			
1 Section - Symbol									Legend			
2 Section - Word									Audible			
2 Section - Symbol												

Comments:

	;	SIGNA	L SUF	PORT	INVENTOF	RY		
		Post		Ма	st Arm	Span Wire		
		8'	10'	Truss	Monlever	Free	Tether	
М	ast Arm							
Post	8'				_			
P	Poor				:			

MOUTLE □MAST A VEH SIG	ARM USPAN WIRE LICHNAMENTAL	Cord by T	,0b
PED SIG	□Inc □FO ☑LED □OP □Failure □Fixed ☑Freeswing □Tether Color ☑ □Backplate ☑ Visor □9" □12" □16"	Det ;	×
DETECT	□Inc □FO □LED □Failure □Word □Symbol □Red/Yellow □Pushbutton □Audible □Failure □¶Loop □Magnetic □Video	U~	7 7 7
ADVANCE	□Microwave □Infrared □Failure ■ SIGNING □N □Static □Illuminated	19 20 21	667
LEFT TUF	OF PHASES □2 □3 □4 □5 ☑6 RN □Perm ☑Prot □Lead □Lag □Simuli SE ☑N □Exclusive □Concurrent		73175111
	ENGTH MaxMin	75 76 77	5-1-
RI E	107 J 107 J 107 J 107 J	79 30	
102	as to	37	7

12 3478

			_				7		_
φ Set	7	2	3	4	5	6	7	/0	9
Min	5	10	6		5	19	5		
Ext.	2.0	0.0	3.0		20	0,0	1.0		_
Max I	11	23	17		N.	23	8		
Max II	13	27	15		13	24	7		_
Yel	3.0	7.0	3.0		30	3.0	3.0		
Red	20	20	20		20	2.0	7.0		
Walk		9				9			
Ped CI		1				1			
Lock					NL		PL		
Recall		Max				Max			

Sketch of intersection and signal layout:

Westeria

T.O.D.
Plan (7 days)
0:00 - 15100 1/1/1
15:00 - 19:00 7/1/1
15:00 - 0:00 1/1/1

DEPARTMENT OF TRANSPORTATION

	DEPA	AKIMENI OF IKANSP	URIAI	ION	
PROJECT - LOCATION - WHILMSKURS LOCATION	ON # - 5	D.O.T. INSPECTOR - WING SF. AS CONTRACTOR'S REP. 15 + MADNIC NG	- JLB	DATE OF NEW SERVICE CHANGE OVER DATE	
				WEET TO 1000 01	
LOOP DETECTOR TEST -	(PERFORM	ED BY CONTRACTOR) SEE STAI	NDARD SI	HEET TR-1000_01	
TEST INSULATION RESISTANCE (MEG	GER) LOOP CI	RCUIT RESISTANCE POWER INTERUPTION			
DATE					
PRELIMINARY VISUAL INS	PECTION -	(PERFORMED BY INSPECTOR)	DA	ATE:	
FOUNDATIONS	TR-1002_01	PEDESTALS TR	-1102_01	PUSH BUTTONS TR	R-1107_01
FOUNDATIONS TOTAL	K-1002_01	LOCATION	OK-	ADA TYPE BUTTON, (2" DIA.), PIEZO	N/A
CONCRETE PAD (3'X4')	1	PLUMB	N	42" MOUNTING HEIGHT	
CAST IN PLACE, BRUSH FINISHED	4	BONDED TO GROUND ROD	JULY.	ACCESIBLE FROM SIDEWALK/RAMP	
CONDUITS BONDED TO GROUND ROD	1	CRUSHED STONE IN FOUNDATION CENTER	UNK		
DUCT SEAL IN CONDUITS	1				
		•		ADA REQUIREMENTS	
		TRAFFIC SIGNALS TR	-1105_01	CROSSWALKS	N/A
HANDHOLES	TR-1010_01	SPAN LAYOUT	OK	SIDEWALK (CLEAR PATH, MIN 36")	
FLUSH WITH GRADE	Y =	PLUMB APPEARANCE	014	RAMPS W/ DETECTABLE WARNING STRIP	
SET ON CRUSHED STONE BASE	NO	FACES: TYPE & LOCATION	OK.		
COVER & CONDUITS BONDED	2	VISORS / LOUVERS / BACK PLATES	OK.		
DUCT SEAL IN CONDUITS	YO	MISSING HARDWARE: BOTTOM CAPS, ETC.	D K	SIGNS	
	79	HEIGHT 16'-17' TO BOTTOM	. O.K	SPAN & POST MOUNT	OKE
		SIGHT DISTANCE (VISIBILITY)	OK	LANE USE ARROWS	OK
SPAN POLES / MAST ARMS	TR-1103_01	UTILITY CLEARANCES	OK	NTOR SIGNS	N/M
LOCATION	OK	·		STOP, STOP AHEAD, INT WARNING	N/Ms
BASE GROUTED	OK_			SIGNAL AHEAD	N/A
PROPER RAKE, PLUMB UNDER LOAD	OK	PEDESTRIAN SIGNALS TR	-1102_01	FLASHING "STOP AHEAD"	NA
HEIGHT / ARM LENGTH	OK	CORRECT TYPE / SIZE	N/A		
H.H. CVR. POLE CAP, BOLT CVR	OK	FACING PED. TRAFFIC			
BONDED TO GROUND ROD	UNR.	PROPER ADVISORY SIGNS		PAVEMENT MARKINGS	1
I.D. TAG	OK			LANE ARROWS	OK
1 SPAN CLAMP PER ATTACHMENT	016			PROPER LANE & SHOULDER WIDTH	OIL
				CENTER LINES	01
				STOP BAR PLACEMENT	OL
NOTES: (1) WITH PRESENT (ELEPHANT TRACKS	NA
(2) CONDUMES BONDE		NUT		STOP BARS	(3)
(5) FUR THOSE OF				ı	_
(5) I SIBN DOWN	others Di	AMAGED OR LETNING			
5 WORN ON BUIL	JIVIME ST	-			

REV'D 3-11 CARD
FLASH-ELEC-CHKLSTCO.DGN

12345

SIGNAL EQUIPMENT EVALUATION FORM



CITY/TOWN Wallingford, CT JOB# DATE C/7/17LOCATION River RD Q Quinipies St

-	CONTROLLER CABINET INVENTORY										
Component	Local Controller	Master Controller	CM / MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabinet		
Quantity		414		6	Alu	1	5/12	\			
Make	Peek	1 - 1	Trasyt	Sarasota		3M	PDC	#TSC	PeeL		
Model #	3000		KELRA	535T		Ophicom Sta	GSS-6760P	Culse 704	5411		
Serial #	9170		4 80	414		414	Alq	419	970953		

Comments:

Fult or detector DZB (QZ)

Non

VEHICL	E SIGI	72.1
	Si	ze
	8"	12"
Red	1	9
Yellow	1	9
Green		9
R-Arrow		
Y-Arrow		3
G-Arrow		3
Comments:	houted	horizantal

				QUA	ANTITY	TOTAL BE	A PAGE		DIIGH	PUSHBUTTON ASSEMBLY			
	Size			##\#\X	Illumination Method				POSHBOTTON ASSEMBLT				
	9"	12"	16"	Countdown	Incandescent	LED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA Compliant?	
1 Section - Word									Button	2	2	乙	
1 Section - Symbol									Legend				
2 Section - Word									Audible				
2 Section - Symbol													

Coord Status = Free, input override Onth 21 if 27 is on 80 Sequ.

SIGNAL SUPPORT QUANTITIES Span Wire Mast Arm Post Tether Monlever Free 8' 10' Truss Good Fair Poor Comments:

φ Set	1	2	3	,A	5	6	7	8	9
Min	3	9	9		9				
Ext.	1,0	2.0	2.0		7,0				
Max I	10	75	1		15				
Max II	5	77	14		15				
Yel	3.0	40	40		4.0				
Red	0.1	1.0	1.0		1.0				
Walk		q	N.		N				
Ped CI		1	1		1				
Lock	NL								
Recall		Max							

Sketch of intersection signal phasing and signal layout:

MOUTLET MEAN/THERMOSTAT MAMP	مل لي		20 Ct	83 <u>J</u>	85 7
VEH SIG ☑8" ☑12" Sect: ☒3 ☒4 ☒Bi ☐5 ☐DH ☐Inc ☐FO ☒(ED ☐OP ☐Failure					
□Fixed ☑Freeswing □Tether Color ✓ □ □Backplate ☑Visor □	dn. &	CNA	XXX	× × × ×	×
PED SIG □9" □12" □16" \- 9	1-6	Inh M			>
□Inc □FO □LED □Failure □Word □Symbol □Red/Yellow □Pushbutton □Audible □Failure 75	7	Ped R	ey X		->
Limicrowave Lintrared Lifallure	777879797979797979797979797979797979797	Coori	Der X	Ó	I card is programed.
ADVANCE SIGNING □None □Static ☑Illuminated	20 3		Or or s		
NUMBER OF PHASES □2 □3 ☑4 □5 □6 □7 □8	31 5		1	785	
LEFT-TURN ☑Perm. ☑Prot. □Lead □Lag □Simult	32 -		17 7		
PED PHASE □None □Exclusive ☑Concurrent		oneway	1 1 7	River Rd	
CYCLE LENGTH Max Min	_	7	> 12 1	y	
☐ CABINET PHOTOS			78		

DEPARTMENT OF TRANSPORTATION

PROJECT - LOCATIO TOWN - WALLE FAMO LOCATIO	N # - 57	-T D.O.T. INSPECTOR -		_ DATE OF NEW SERVICE	
TOWN - WALLING FUND LOCATIO	N - Quim	PIAL ST CONTRACTOR'S REP.	- JRB-	_ CHANGE OVER DATE <u>-</u>	
	AT RIE	Luca RD.			
LOOP DETECTOR TEST	DEDECTIONS	D BY CONTRACTOR) SEE STAI	NUVDU CHI	FFT TP-1000 01	
	·		IDARD SIII	LE1 11 1000-01	
TEST INSULATION RESISTANCE (MEGG	ER) LOOP CIRC	CUIT RESISTANCE POWER INTERUPTION			
DATE					
DDELTMINADY VICILAL INCOR	ECTION -	(PERFORMED BY INSPECTOR)	DAT	TE: 2/2/12	
PRELIMINARY VISUAL INSPI	CITON	(FERTORIED DI INSTECTOR)	2,1	7-17-0	
FOUNDATIONS TR	-1002_01	PEDESTALS TR	-1102_01	PUSH BUTTONS T	R-1107_01
CTRL FND 4" ABOVE GROUND	У	LOCATION	OK	ADA TYPE BUTTON, (2" DIA.), PIEZO	Y
CONCRETE PAD (3'X4')	Y_	PLUMB	OK_	42" MOUNTING HEIGHT	l'Y
CAST IN PLACE, BRUSH FINISHED	Y	BONDED TO GROUND ROD	UNC.	ACCESIBLE FROM SIDEWALK/RAMP	1
CONDUITS BONDED TO GROUND ROD	Y	CRUSHED STONE IN FOUNDATION CENTER	UKK		
DUCT SEAL IN CONDUITS	7				
				ADA REQUIREMENTS	1 1 1
		11011120 000011	-1105_01	CROSSWALKS	N
HANDHOLES TR	-1010_01	SPAN LAYOUT	OK	SIDEWALK (CLEAR PATH, MIN 36")	X
FLUSH WITH GRADE	y 0	PLUMB APPEARANCE	516	RAMPS W/ DETECTABLE WARNING STRIP	N
SET ON CRUSHED STONE BASE	4	FACES: TYPE & LOCATION	OK 3		
COVER & CONDUITS BONDED	N	VISORS / LOUVERS / BACK PLATES	DEP		
DUCT SEAL IN CONDUITS	YO	MISSING HARDWARE: BOTTOM CAPS, ETC.		SIGNS	016
		HEIGHT 16'-17' TO BOTTOM	OK	SPAN & POST MOUNT	
		SIGHT DISTANCE (VISIBILITY)	0 (5)	LANE USE ARROWS	96
SPAN POLES / MAST ARMS TR	-1103_01	UTILITY CLEARANCES	OK	NTOR SIGNS	
LOCATION	014			STOP, STOP AHEAD, INT WARNING	OK
BASE GROUTED	OK			SIGNAL AHEAD	OK.
PROPER RAKE, PLUMB UNDER LOAD	OK		-1102_01	FLASHING "STOP AHEAD"	014
HEIGHT / ARM LENGTH	OK	CORRECT TYPE / SIZE 12/1/6-	OK		
H.H. CVR. POLE CAP, BOLT CVR	014.	FACING PED. TRAFFIC	OE	DAVENIT MADIZINGS	
BONDED TO GROUND ROD	UNK	PROPER ADVISORY SIGNS	OK	PAVEMENT MARKINGS LANE ARROWS	1
I.D. TAG	OK.			PROPER LANE & SHOULDER WIDTH	OK-
1 SPAN CLAMP PER ATTACHMENT	OK			CENTER LINES	016
- A				STOP BAR PLACEMENT	D.K.
00 C-1115 C	0 - 1			ELEPHANT TRACKS	w/A
NOTES: (1) SOME COURS NOT		EP		ELEPHANT TIGORS	1 7 1
@ POR THOSE OBSERVA					
3 SOME INDUTION					
A PEEUNG PANT					
5 ADVANCE SIEN 6	M (DIMM	pmc.			-
_					E Comment



Project:		Sheet:	57T
City:	Walling End, CT	Ву:	MWM
Location:		Date:	2/2/12

Source:	Cycle	Split	Offset	Free	Flash		City Z	Zero N	didni	ght Cyr	cles:
TOD	X	⊠	3	N.	X	1	2	3	4	5	6
Closed Loop											8
nterconnect											
✓ Auto Permissives ✓ Offset Entry In % ✓ End of Main Street ✓ Perm-Pa Entry In %							t of St	tep to	Free		
🗹 End of Main	Ped Permissive:					C					
☐ Enhanced Permissives ☐ Invert Free Input							Interconnect TOD Revert:				
☐ Fixed Force-Off ☐ Split Matrix											A
Yellow Offse	MASSING THE	- I Company		s/Cycle		Percent Yield:					.5
Central Ove			No Ea	rly Coor	d Ped	Percent EGB:					
☐ No PCL Offs	et Adju	st				Percent RGB:					
SYNC Source:	Тур	e of Pe	erm: C)ffset Sc	eeking:	FG	ICCIII	rab.			
TOD/CL/INTE	R 🗹	Yield		Add		Con	dition	s to F	ree:		
City Zero	THE PERSON	Single		Dwell		No.	of Cy	cles	w/No	Sync	0
Absolute	AT A PERSON	Multiple	e 🔽	Short	Route	No.	of Se	c. w/l	No of	iset	0
				17 1 1		No.	of Se	c. w/l	Multi	Offsets	5 0

Phase Allocation								
Phase Cyc/Splt	1	2	3	4	5	6	7	8
C1/51	13	33	77		77			
CA/51	n	37	75		77			



Project:

City: Wallingford, CT Location: River Rd @ Quinnipies St MUN Ву: Date: 7/2/12 Cycle/Dwell/Offset Week Plan 1 3 5 Cycle: 2 6 Wed Thu Fri Mon Tue Sat Sun Cycle Length: Max Dwell/ 30 30 Min. Cycle: Offset 1: 76 73 Offset 2: Cycle 1
offsetz 1 Offset 3: Offset 4: Offset 5: Day Plan C/O/S Ckt c/o/s Plan # Time **Ckt Plan** Time **Ckt Plan** Ckt Plan# 1/1/1 0:00 Freed 0000 15:00 18100

Sheet:

✓ Input L	ad Preempt Lock Higher Run Priority	User P Duration	num Intervals Priority: on Service: pt Delay: vice Time:		3 1 5 1 5 1	Min. G Min. Y Min. R Min. P	reen: ellow: ed: ed. Cl	earan	ce:	5. 0.	0 0	Go Go Re To FUNC Phase Calls	to Nessume Coord	xt <u>D</u> er <u>S</u> equ linatio	se mand ence		100 x00 x00 x 7 x 7 x 7 x 7 x 7 x 7 x 7 x	× × × ×	x X	EERIN	ア ロ ゴ ラ
RUN	て														1 40	45	1 44	145	10	1	
INTVL#	TIME	FLASH	SIG	1	2	3	4 D	5 E	6 F	7 G	8 H	9	10 J	11 K	12 L	13 M	14 N	15 O	16 P		
1	15	PLAN	OUTS	A	В	C	<u>U</u>			<u> </u>		 '	-	<u> </u>		IVI	14	Ť		- 0	ъ
TYPE			VEH			-	 	6			+-	+	 	<u> </u>	-	-	 		_	City: Loca	ō.
TENTHS			PED			-	├	┼	-		 	+		-	-		 	 	-	City: Location:	Project:
EXIT			VEH O/L			-		 			\vdash	+	-	-		-	+	 		Ä	• •
DO - VEI	 		PED O/L OUTS			-	 	+		+-	\vdash	+	-	1	 	_	\vdash	1		1 1_	1
PC->YEL		_	0013						-								-			200	
RUN	7																			River RE	
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		,
7	7	PLAN	OUTS	А	В	C	D	E	F	G	Н	1	J	K	L	M	N	0	Р	83	
TYPE			VEH					Y										<u> </u>		50	
TENTHS			PED															<u> </u>		00	
EXIT			VEH O/L														<u> </u>			LH	
			PED O/L												<u> </u>	ļ	└			NO I	
PC->YEL			OUTS															ļ.,		200	
																				Quinique	
RUN	て																-	4.5	1 40	1 2	1
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
3		PLAN	OUTS	Α	В	С	D	E	F	G	Н		J	K	L	М	N	0	Р	5	
TYPE			VEH						<u> </u>				<u> </u>	<u> </u>	<u> </u>	-		-		4	
TENTHS			PED						<u> </u>	<u> </u>			<u> </u>	-	-		-	+	-	-	
EXIT			VEH O/L		<u> </u>		-	-			-		-	-	-	-	-	+	-	1	
			PED O/L		ļ				ļ	-	├ ─		<u> </u>	-	-	-	-	+	-	1 1	1
PC->YEL			OUTS												 			-		J	
											-			-					1		
RUN						1 -		50		1 -	-	-	40	44	40	42	4.4	15	16	By:	Sh
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6 F	7 G	8 H	9	10 J	11 K	12 L	13 M	14 N	0	P	By: Date:	Sheet:
		PLAN	OUTS	Α	В	C	D	E	-	6		+-	<u> </u>	17	_	141	14	+ -	-	1 1	1
TYPE			VEH			-	-	-		-	-	+	-	+	+	-	-	-	-	21-	10
TENTHS		<u></u> .	PED	-	-	-	-	+	-		+		+	-		-	+-	+	-	12/12	7
EXIT			VEH O/L	-	-	+	-		-	-	-		+	+	+	-	1	+	 	12 P	. -
2011111			PED O/L		-	+	 	-	-	-	-	+	+		+	+	+	+		16	
PC->YEL	I		OUTS										1	1							1

✓ Input	ad Preempt Lock Higher Run Priority	User P Duration	num Interval Priority: on Service: pt Delay: vice Time:		3 5 5	Inhi Min. G Min. Y Min. R Min. P Min. O	reen: ellow: ed: ed. Clo	earano	ce:	0.	0 0	Go Go Re To FUNC Phase	to Nessume Coord	xt <u>D</u> er <u>S</u> equ inatio	nand ence n	Va PH PH Fi 6 7	ln > el × ker cor kit cor	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	k k	ENGINEERING SUCCESS TOGETHER
RUN INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16 P	
	15	PLAN	OUTS	A	В	C	D	E	F	G	Н	-	J	K	L	M	N	0	P	
TYPE			VEH	 	G	├	-	<u> </u>				+	-							City:
TENTHS EXIT	-		PED VEH O/L	G	 	_	\vdash	_	-	 		+-	\vdash							Location:
EXII			PED O/L	9	 		<u> </u>				1									33
PC->YEL	+		OUTS																	1
			Ti-																	E NOT E
RUN	1										_	_	1	-	1.0	45	1 4 4	4-	40	P Nor
NTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11 K	12 L	13 M	14 N	15 O	16 P	10 h
7	4	PLAN	OUTS	A	В	С	D	E	F	G	Н	1	J	<u> </u>		IVI	IN .	-		\$ 3
TYPE			VEH	<u> </u>	-						-	+-	+-		-		-	-		6
TENTHS	+		PED VEH O/L	-	-		 -	-	-	_	-	+	-							
EXIT	 		PED O/L		_		$\vdash -$	$\vdash -$		\vdash			1							MA
PC->YEL	+		OUTS	 	 															100
																				Bownpie
RUN	1											-			7					100
NTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16 P	
3	15	PLAN	OUTS	A	В	C	D	E	F	G	Н	1	J	K	L	M	N	0	Р	12
TYPE			VEH					-				-	-	├ ─		_	+-		-	
TENTHS	-		PED //		<u> </u>	<u> </u>	-		-				-	-	-		-	-	-	
EXIT			VEH O/L PED O/L	-	-	+	-	+		+-		+-	-	\vdash			1			1
PC->YEL	1		OUTS			†	+	\vdash				+-	†							1 1
. VT ILL			5515					+							1					
RUN				+									Yakasaya		1					0
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Date:
		PLAN	OUTS	Α	В	C	D	E	F	G	Н	1	J	K	L	М	N	0	Р	
TYPE			VEH														-			14-
TENTHS			PED								<u> </u>				ļ		-			14
EXIT			VEH O/L	<u> </u>		-	-			-			-	-	-		-	 		1
			PED O/L	-	-	-		-				-	+	-		-	-	+-	-	1
PC->YEL			OUTS													<u> </u>				

SIGNAL EQUIPMENT EVALUATION FORM



//TOWN_biall									
			CONTRO	LLER CABI	NET INVEN	TORY		T T	
Component	Local Controller	Master Controller	CM / MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabine
Quantity		Alq		7	Ald	1	9/12		1
Make	Peeh		Trasyt	Survisota		3M	PDC	PDC	Peek
Model #	3000		IZELRA	277 GP6		opticon 752	55-67WP	SF-87WP	9948
Serial #	134788		71101135	Ald		MA	NA	A/A	個

	Si	ze
	8"	12"
Red	2+4(6)	41245
Yellow	ZH(6)	41245
Green	246	427
R-Arrow		
Y-Arrow		/
G-Arrow		\mathcal{L}

				QU	ANTITY	No.			DIICH	BUTTON	ASSEM	RIV
		S	ize			Illuminatio	n Method	EU .	Posni			
	9"	12"	16"	Countdown	Incandescent	TED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA Compliant?
1 Section - Word									Button	5	5	5
1 Section - Symbol			6		6				Legend			
2 Section - Word									Audible			
2 Section - Symbol												

		P	Post Mast Arm		st Arm	Spa	n Wire
		8'	10'	Truss	Monlever	Free	Tether
	Good					V	
Post	Fair			\geq	><	$\geq \leq$	$\geq \leq$
	Poor			$>\!\!<$	><	$>\!\!<$	$>\!\!<$
Comr	nents:						

80 Segu. 2 5 φ Set 3 4 6 5 Min 15 Ext. 3.0 T.0 30 TN 18 52 Max I 18 42 39 39 11 Max II Yel 3.0 3,0 30 011 4,0 4.0 Red 0.0 4.0 LD Walk Ped CI

μL

Sketch of intersection signal phasing and signal layout:

MIN

17

NL

MOUTLET MEAN/THERMOSTAT MLAMP	9 63 A TO 1
□MAST ARM ☑SPAN WIRE □ORNAMENTAL	7 7
VEH SIG ☑8" ☑12" Sect: ☑3 □4 □Bi □5 □DH □Inc □FO ☑LED □OP □Failure □Fixed ☑Freeswing □Tether Color Yellw black □Backplate ☑Visor Data. ②	CLOA I 82 & BLAZ Z14
PED SIG	WRM All John 100 2-6 OL C = 2,5,6 Milk Rost RZ OL P = 7,6
DETECTION ■Loop □Video □Magnetic 70 □Microwave □Infrared □Failure 71 □	Courd Phase QZ 87
ADVANCE SIGNING None □Static □Illuminated	our of 4
NUMBER OF PHASES $\Box 2 \Box 3 \Box 4 \Box 5 \Box 6 \Box 7 \Box 8 \overset{\text{ZVI}}{75} $	1
LEFT-TURN ☑Perm. □Prot. □Lead □Lag □Simult 76 7	85 - F> Para OLD
PED PHASE □None ☑Exclusive □Concurrent	no of the last
CYCLE LENGTH Max Min 71 5	Wergs No S BOTH
CLOADINET DUOTOC	ac soci

Lock

Recall

DE	PARTMENT OF TRANSP	ORTATION
TOWN - WHUNG FORD LOCATION - D	BULL/LUFBERRY/WARD STT.	CHANGE OVER DATE -
LOOP DETECTOR TEST - (PERFO	RMED BY CONTRACTOR) SEE STA	NDARD SHEET TR-1000_01
1231 1100011	P CIRCUIT RESISTANCE POWER INTERUPTION	
DATE	,	
PRELIMINARY VISUAL INSPECTION	- (PERFORMED BY INSPECTOR)	DATE: 2/2/12
FOUNDATIONS TR-1002_01	PEDESTALS TR	PUSH BUTTONS TR-1107_01
CTRL FND 4" ABOVE GROUND Y	LOCATION	OK ADA TYPE BUTTON, (2" DIA.), PIEZO
CONCRETE PAD (3'X4')	PLUMB	42" MOUNTING HEIGHT ACCESIBLE FROM SIDEWALK/RAMP
CAST IN PLACE, BRUSH FINISHED	BONDED TO GROUND ROD	
CONDUITS BONDED TO GROUND ROD	CRUSHED STONE IN FOUNDATION CENTER	NK.

HANDHOLES	TR-1010_01
FLUSH WITH GRADE	YO
SET ON CRUSHED STONE BASE	14
COVER & CONDUITS BONDED	NO
DUCT SEAL IN CONDUITS	10
	17

DUCT SEAL IN CONDUITS

SPAN POLES / MAST ARMS	TR-1103_01
LOCATION	OK
BASE GROUTED	OK
PROPER RAKE, PLUMB UNDER LOAD	DL
HEIGHT / ARM LENGTH	OK
H.H. CVR. POLE CAP, BOLT CVR	8 K
BONDED TO GROUND ROD	UNK
I.D. TAG	UKK.
1 SPAN CLAMP PER ATTACHMENT	DK

PEDESTALS TR-	1102_01
LOCATION	OK
PLUMB	DK3
BONDED TO GROUND ROD	WK
CRUSHED STONE IN FOUNDATION CENTER	ONK.

TRAFFIC SIGNALS TR-	1105_01
SPAN LAYOUT	OK
PLUMB APPEARANCE	212
FACES: TYPE & LOCATION	OK
VISORS / LOUVERS / BACK PLATES	OK.
MISSING HARDWARE: BOTTOM CAPS, ETC.	012
HEIGHT 16'-17' TO BOTTOM	014
SIGHT DISTANCE (VISIBILITY)	MC
UTILITY CLEARANCES	de
1	

PEDESTRIAN SIGNALS	TR-1102_0:
CORRECT TYPE / SIZE N/4	OK.
FACING PED. TRAFFIC	DK
PROPER ADVISORY SIGNS	OK

NOTES: 1) Some Cours AUG BE LOCATED	1900
1 FAL THORE OBSERVED	
(3) DNE DAMACET OPP BULL NE	
	arres .

PUSH BUTTONS	TR-1107_
ADA TYPE BUTTON, (2" DIA.), PIEZO	
42" MOUNTING HEIGHT	4
ACCESIBLE FROM SIDEWALK/RAMP	\ \

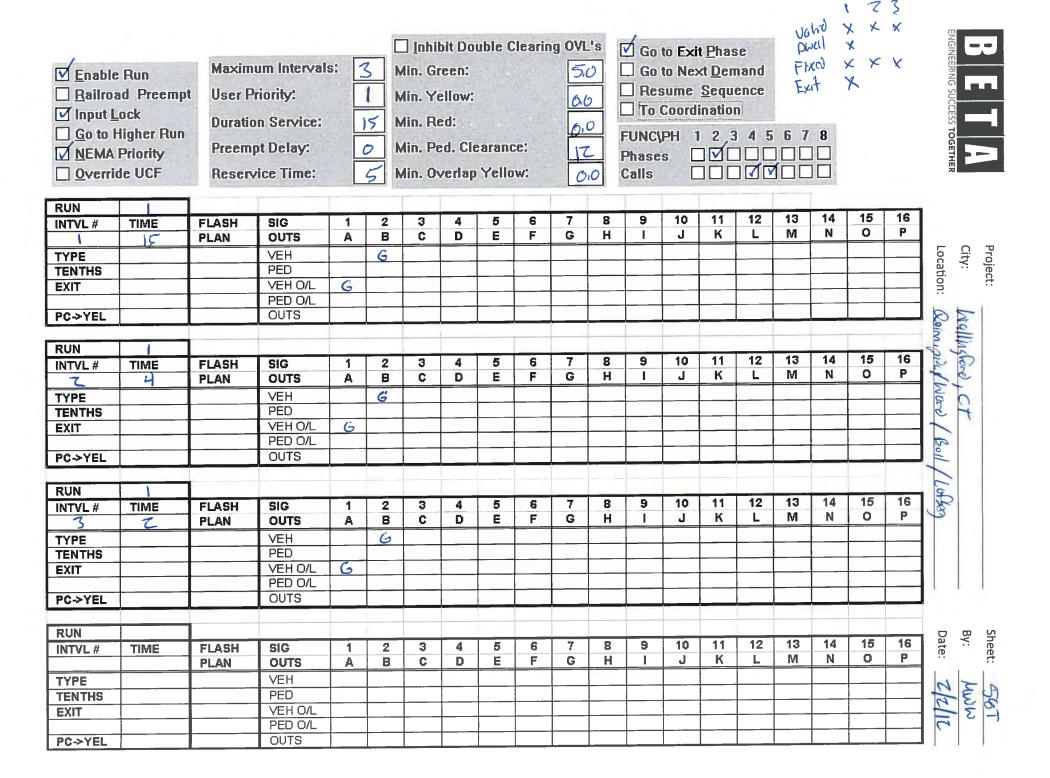
ADA REQUIREMENTS	
CROSSWALKS	DIC
SIDEWALK (CLEAR PATH, MIN 36")	OK
RAMPS W/ DETECTABLE WARNING STRIP	N

	SIGNS	
	SPAN & POST MOUNT	OK
	LANE USE ARROWS	OK
	NTOR SIGNS	014
	STOP, STOP AHEAD, INT WARNING	N/A
	SIGNAL AHEAD	NA
	FLASHING "STOP AHEAD"	NIA
i		

LANE ARROWS	1 16.2771
PROPER LANE & SHOULDER WIDTH	61/-
	000
CENTER LINES	01-
STOP BAR PLACEMENT	016
ELEPHANT TRACKS	W/A

REV'D 3-11 FLASH-ELEC-CHKLSTCO.DGN

☐ Enable Run ☐ Railroad Preempt ☑ Input Lock ☐ Go to Higher Run ☑ NEMA Priority ☐ Override UCF		User P Duration Preem	num Interval Priority: on Service: pt Delay: vice Time:		3 1 1 5 1	Inhi Min. G Min. Y Min. R Min. P	reen: ellow: ed: ed. Clo	earan	ce:	0.00	0	☐ Re	to Nessume Sume Coord	xt <u>D</u> er <u>S</u> equ	nand ence n 3 4 5	A F	exal exal exit	× × × ×		ENGINEERING SUCCESS TOGETHER	Б - -	
RUN	7	EL 4 011	Laio	1 4	Ι.α		1	E	C	7	8	9	10	11	12	13	14	15	16	1		
INTVL #	TIME	FLASH	SIG	1 A	2 B	3 C	4 D	5 E	6 F	7 G	H	1	10	К	L	M	N	0	P			
	13	PLAN		A		-	-		-	-	G	+	+-	 '` -			 '`	+		_	0 -	D
TYPE			VEH PED	┼	+	+	 	 		 	9	+	+	\vdash				1		င္ဆ	City:	<u>3</u> .
TENTHS EXIT	+		VEH O/L		G	G	G	 		+-		+	 				_			Location:	,	Proiect:
EAII	-		PED O/L	-	<u> </u>	+ •		 	 		 	-	 	\vdash		1				3	·	
PC->YEL	-		OUTS	 	\vdash						1		\vdash		<u> </u>					500	_	
10-166	-		3313																	O.	35	
RUN	2																			Quanpice.	Wellingto.	
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	8-1	5	
42	4	PLAN	OUTS	А	В	C	D	E	F	G	H	1	J	K	L	M	N	0	Р		3	
TYPE			VEH								Y									ward		
TENTHS			PED																	3	2	
EXIT			VEH O/L																	1	7	
			PED O/L								<u> </u>	ļ		<u> </u>		L .	<u> </u>			6011		
PC->YEL			OUTS			_														-		
												allocation and a second						-		1		
RUN	2										_	_	1 15	- 44	1 40	40	144	1 45	40	and B.		
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13 M	14 N	15	16 P	120		
3	Z	PLAN	OUTS	A	В	С	D	E	F	G	Н	1.	J	K	L	IVI	IN	-				
TYPE			VEH				<u> </u>		-				+-	-			\vdash	+		1		
TENTHS	ļ		PED VEH O		╁		-		-	-	-	+	+	-			-	-		1		
EXIT			VEH O/L PED O/L	-	+	+	-	+	 				+-	 	 		 	_				
PC->YEL			OUTS	+			+	+		+	 		+		\vdash		 	 		1 .	1	
TU-VIEL	,	- 22.1	0013								1		1									
RUN													İ		T.							٠,
INTVL#	TIME	FLASH	SIG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Date:	By:	Sheet:
MAIAPE	11111	PLAN	OUTS	A	В	C	D	E	F	G	Н	Ī	J	K	L	M	N	0	P	l ü		P
TYPE			VEH																	-3	L	
TENTHS			PED		1			1												2	3	S
EXIT			VEH O/L	1 -	†			1												1	Mund	g
			PED O/L																	2	2	٦
PC->YEL			OUTS							1							<u></u>]]		





Project:

City: Walling Ford, CT

Location: Quiniples Ste Word St/ Ball Ave / Walls for Date: The Color

erating Modes		1000/11		- Marie					TVT	- audin	1-1-
lerading modes						100		1			
Source:	Cycle	Split	Offset	Free	Flash		City Z	Zero l	Midni	ght Cy	cles:
ГОД						1	2	3	4	5	6
Closed Loop	V	☑	✓	Ø							á
nterconnect							White and the				
Auto Permis	sives	V	Offset	Entry In	1%	Ou	t of St	tep ta	Free		
☑ End of Main	Street		Perm-F		CONTRACTOR OF THE PARTY OF THE	Pe	d Peri	missi	ive:		0
☐ Enhanced P	ermiss	ives 🗌	Invert I	Free In	put	Int	ercon	nect	TOD F	Revert:	0
Fixed Force	-Off	\Box	Split M	atrix							
☐ Yellow Offse	et	☑	4 Splits	s/Cycle		Pe	rcent	Yield	:		5
☑ Central Ove	rride		No Ear	ly Coo	rd Ped	Do	rcent	ECB:			
■ No PCL Offs	et Adju	st									0
SYNC Source:	Tyr	e of Pe	erm: O	ffset S	eeking:	Pe	rcent	RGB			6
TOD/CL/INTE				Add		Con	dition	e to F	ree'		
	THE REAL PROPERTY.	Single		Dwell			of Cy			Sync	0
City Zero	Service in	THE PERSON NAMED IN		THE PERSON NAMED IN		DE CO	of Se		DESCRIPTION OF	THE STREET STATES	
Absolute		Multiple		Short	Houte						0
						No.	of Se	c. w/	Multi	Offsets	0

Phase Allocation								
Phase Cyc/Splt	1	2	3	4	5	6	7	8
C1/51	36	33 3	5	424	17	79		
CZ/51		33	5	16	17	79		
C3/S1		37	5	16	17	75		
					-			



Project:

City: Wallingford, CT

Location:

Sheet: 56T

By: 12/17

Date: 7/2/17

Cycle/Dwell/Offset		*		2		
Cycle:	1	2	3	4	5	6
Cycle Length:	100	120	100			
Max Dwell/ Min. Cycle:	90	80	80			
Offset 1:	65	65	65			
Offset 2:						
Offset 3:						
Offset 4:						
Offset 5:						

Week	Plan					
Sun	Mon	Tue	Wed	Thu	Fri	Sat
7	1	1	1	t	l	て

Cycle 1-6 ->

Offet

All 1

Day Plan									
Plan #	Time	Ckt Plan	c/o/s	Ckt	Plan #	Time	Ckt Plan	c/o/s	Ckt
l	0 100			Free on					
	6:30		1/1/1						
	6:30			Freeoff					
	9100		3/1/1						
	15100		7/1/1						
	18:30			Free on					
2	0100			Free On					

59T Field Inspection

SIGNAL EQUIPMENT EVALUATION FORM

CITY/TOWN	JOB#	DATE	LOCATION	

			CONTRO	LLER CABI	NET INVEN	TORY			
Component	Local Controller	Master Controller	CM/MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabinet
Quantity		AIU	Musex	94	N/A	l	4	1	\
Make	Peek		Trasyt	3-Scresott		3M	PDC	PDC	Peda
Model #	3000		IZEL	222 Orede /2		752 Option	Model ZOO	Mod 704	9447
Serial #	5707		NA	NIA		N/A	N/A	NA	982241
Comments: O	d 3000 Sorios	Contriller St	ting in colon	.et (Cha 16 Pet Cha 13 Pet	bolos bolos	Optricon Rull	out of slot.	

VEHICLE SIGNAL INVENTORY						
	Si	ze				
	8"	12"				
Red		8				
Yellow		8				
Green		8				
R-Arrow						
Y-Arrow						
G-Arrow						
Comments		·				

				QU	ANTITY				риен	PUSHBUTTON ASSEMBLY			
	Size				Illuminatio	n Method	d	Posm	3011014	ASSEN	DLI		
	9"	12"	16"	Countdown	Incandescent	LED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA Compliant?	
1 Section - Word									Button	4	4	Y	
1 Section - Symbol			8	0		8			Legend	4			
2 Section - Word									Audible	1			
2 Section - Symbol													

SIGNAL SUPPORT INVENTORY								
	****	Po	Post		st Arm	Span Wire		
		8'	10'	Truss	Monlever	Free	Tether	
M	ast Arm	4				✓		
Post	8'	12						
Pc	Poor							

____ Min_ 40

CYCLE LENGTH Max 60

φ Set	1	2	3	4	5	6	7	8	9
Min									
Ext.									
Max I									
Max II									
Yel									
Red _									
Walk									
Ped CI									
Lock									
Recall									

Sketch of intersection and signal layout:

□ OUTLET □ FAN □ LAMP □ MAST ARM □ SPAN WIRE □ ORNAMENTAL VEH SIG □ 8" □ 12" Sect. □ 3 □ 4 □ Bi □ 5 □ Inc □ FO □ LED □ OP □ Failure □ Fixed □ Freeswing □ Tether	Deteter du9/10 11/2 to phose Z 13/4 15/6 to phose Z Source	Deyl 0:60-6:30 Free 6:30-9:201 1/1/1 9:00-15:00 3/1/1
Color Della	Cycle Clusio Loop Split n Offent n De Z	15100-16:30 Z/1/1 18:30 Z/1/1 18:30 Olco Free -15100 4/1/11 1 all other
ADVANCE SIGNING IN Static Illuminated NUMBER OF PHASES 2 3 4 5 6 LEFT TURN Perm Prot Lead Lag Simult PED PHASE N MExclusive Concurrent	Yidd Shortwg	e all offer

DEDADMIRNT OF TOANCOOPTATION

	DEPA	RIMENT OF TRAN	SPURIAI.	IOIV	
PROJECT - LOCATION - WHUNGTON LOCATION	ON # - 50	D.O.T. INSPECTOR'S F	R	DATE OF NEW SERVICE CHANGE OVER DATE	
			CTANDARD CL	JEET TP1000 01	
LOOP DETECTOR TEST -	(PERFORME	D BY CONTRACTOR) SEE	STANDARD SI	1EE1 1K-1000_01	
TEST INSULATION RESISTANCE (MEG	GER) LOOP CIR	CUIT RESISTANCE POWER INTERUPT	ION		
DATE					
		*			
PRELIMINARY VISUAL INSP	PECTION -	(PERFORMED BY INSPECT	OR) DA	TE: 1/18/12	
FOUNDATIONS 7	R-1002_01	PEDESTALS	TR-1102_01		R-1107_01
CTRL FND 4" ABOVE GROUND	Y	LOCATION	© L	ADA TYPE BUTTON, (2" DIA.), PIEZO	OK
CONCRETE PAD (3'X4')	4	PLUMB		42" MOUNTING HEIGHT	DK
CAST IN PLACE, BRUSH FINISHED	7	BONDED TO GROUND ROD	UNK.	ACCESIBLE FROM SIDEWALK/RAMP	17
CONDUITS BONDED TO GROUND ROD	4	CRUSHED STONE IN FOUNDATION C	ENTER ONE		
DUCT SEAL IN CONDUITS	Y	1 To			
				ADA REQUIREMENTS	1014
		TRAFFIC SIGNALS	TR-1105_01	CROSSWALKS	OK
HANDHOLES O	FR-1010_01	SPAN LAYOUT	OK	SIDEWALK (CLEAR PATH, MIN 36")	OK
FLUSH WITH GRADE	У	PLUMB APPEARANCE	Y	RAMPS W/ DETECTABLE WARNING STRIP	N
SET ON CRUSHED STONE BASE		FACES: TYPE & LOCATION	OK		
COVER & CONDUITS BONDED	-	VISORS / LOUVERS / BACK PLATES	OK		
DUCT SEAL IN CONDUITS	14	MISSING HARDWARE: BOTTOM CAPS	S, ETC. OK.	SIGNS	
		HEIGHT 16'-17' TO BOTTOM	OK	SPAN & POST MOUNT	OF
		SIGHT DISTANCE (VISIBILITY)	OK.	LANE USE ARROWS	N/A
SPAN POLES / MAST ARMS	ΓR-1103_01	UTILITY CLEARANCES	OK	NTOR SIGNS	OK.
LOCATION	OK			STOP, STOP AHEAD, INT WARNING	N/A.
BASE GROUTED	1			SIGNAL AHEAD	N/A
PROPER RAKE, PLUMB UNDER LOAD	0×	PEDESTRIAN SIGNALS M/H	TR-1102_01	FLASHING "STOP AHEAD"	N/A
HEIGHT / ARM LENGTH	OK	CORRECT TYPE / SIZE	012		
H.H. CVR. POLE CAP, BOLT CVR	OK.	FACING PED. TRAFFIC	OF		
BONDED TO GROUND ROD	UNK	PROPER ADVISORY SIGNS	012	PAVEMENT MARKINGS	
I.D. TAG	(2)			LANE ARROWS	NA
1 SPAN CLAMP PER ATTACHMENT	012	1		PROPER LANE & SHOULDER WIDTH	OK
		4		CENTER LINES	OK.
				STOP BAR PLACEMENT	OL2
NOTES: O ONLY ONE AA. L	UNS OPENER	O @ S.E. COR WINE NUTS	= FND.)	ELEPHANT TRACKS	N/A
COMPAND TON G					
		war		1	

REV'D 3-11 FLASH-ELEC-CHKLSTCO.DGN

4										
B E T A Group	. Inc	P	Projec	et:					Sheet:	59T
Engineers . Scientists .	Planne	18	City:							MWW
			Locat	ion: (Junt	Ditec	810	West	Tylen Date:	1/10/2012
				SIGN.					3	
IN	TERS	ECTIO	ON DI	AGRA	M				Corfincho X	
4										
t		הייווצה	KV						Semi-Actuated	
N	\	1311.							Fully-Actuated	abolan
					-					30 000 05
		_							NOTES:	Prets
		2			Q	ONI (Sign	St	8 phoso squartie	. (
	K		8						Pretimed Semi-Actuated Fully-Actuated NOTES: 8 phose squarte Time Clock good OVERLAPS	
									OVERLAPS	
		1							A B	C D
									Phases Z Z	
	P	HASE	TIME	ES			,		PRE-EMPTIO	N
Phase	X	2	3	4	5	8	1	8	Phases	
<u>L</u> ock / <u>NL</u> ock		Mine	J4.	Mr						
Recall (Max, Min, None)		CNAI		MAX					TIME OF DAY SET	TINGS
Walk			7						Cycle MARK I	
Don't Walk			10						Time Period: AM	
Min Green		15	0	8		<u> </u>			Cycle Length: 50	Mh 40
Extension		3.0	0	3,0					Offset:	
Recall Green									astle MAXII	
Max I Green		30		70					Time Period: PM	
Max II Green		35		70			:		Cycle Length: 60	nh 40
Max III Green									Offset:	
Yellow		3.0	0.1	3.0					Cycle MARK III	
All Red		2.0	0.0	7.0					Time Period: Mid. dan	,
Total Split I		60	5	35					Cycle Length: 50 p	in yo
Total Split II		60	5	35					Offset:	
Split III Same		Coord		SIGNA	L PH	ASINO	G DIA	GRAM		
ME KA			87			-				
84 1				大					87 - T	

Pcd

Quiniplac

60T Field Inspection

SIGNAL EQUIPMENT EVALUATION FORM

CITY/TOWN	JOB#	DATE	LOCATION	-

CONTROLLER CABINET INVENTORY											
Component	Local Controller	Master Controller	CM / MMU	Detector Amplifier	Time Clock	Preemption	Load Switches	Flasher	Cabinet		
Quantity		0	l	4 + 26pur	Alu	1	7	1	1		
Make	Peel		Peel	Sarasota		3M	PDC	TSC	Peek		
Model #	3000		WELRA	ZZZ GP6		752 option	hodel 200	204	9446		
Serial #	135054		0791	Alu		Ald	NIA	Alq	98224		

VEHICLE SIGNAL INVENTORY								
	Si	ze						
	8"	12"						
Red		8						
Yellow		8						
Green		8						
R-Arrow								
Y-Arrow								
G-Arrow								
Comments	•							

100 - 100 -			PEI	I								
		S	ize			Illuminatio	n Method	1	PUSH	BUTTON	ASSEM	BLY
	9"	12"	16"	Countdown	Incandescent	LED	Fiber Optic	Poor Cond.?		Quantity	Working?	ADA
1 Section - Word									Button	4	Y	7
1 Section - Symbol			8	0		8			Legend	Ч	Y	
2 Section - Word									Audible	1	Y	
2 Section - Symbol												

	5	SIGNA	L SUF	PPORT	INVENTOF	RY		
		Post		Ma	st Arm	Span Wire		
		8'	10'	Truss	Monlever	Free	Tether	
М	ast Arm							
Post	8'							
9	Poor							
Com	ments:					·		

φ Set	1	2	3	4	5	6	7	8	9
Min	•								Ť
Ext.									
Max I									
Max II									
Yel									
Red									
Walk									
Ped CI									
Lock									
Recall									

Sketch of intersection and signal layout:

```
DOUTLET DEAN DLAMP
                                              Cyde
□MAST ARM ☑SPAN WIRE □ORNAMENTAL
                                                                                          Free
                                                                            9:00 - (130
VEH SIG □8" □12" Sect. □3 □4 □1Bi □5
        □Inc □FO ☑LED □OP □Failure
                                                                            6170- 1100
                                                                                          Vidi
        □Fixed ☑Freeswing □Tether
                                                                            9100-1510
                                                                                         3/1/1
Color Valow Backplate Wisor PED SIG D9" 12" 16"
                                                      34
                                              0/5
                                                                                         Thill
                                                                  11
                                                                            15-100- 16:30
                                                                           18:30 - 24:00 Free
        □Inc □FO ☑LED □Failure
                                              C/0/5/Free
        □Word □Symbol □Red/Yellow
        ☑Pushbutton ☑Audible □Failure
                                              7/6/25 1
                                                             Chi
                                                                     WIM IMI IME
DETECT ☑Loop ☐Magnetic ☐Video
        ☐Microwave ☐Infrared ☐Failure
                                              7/1/25
                                                              FOM
ADVANCE SIGNING □N □Static ☑Illuminated
NUMBER OF PHASES □2 □3 □4 □5 □6
                                              Cycle Source
                                                                       Enofman Y
LEFT TURN ☑Perm ☑Prot □Lead □Lag □Simult
PED PHASE □N MExclusive □Concurrent
                                                            CL
CYCLE LENGTH Max_
                                                    Free
                                                            CL
                                                    Flool
                                                            cL
```

DEDADTHENT OF TRANSPORTATION

	DEP	ARIMENI OF INAN	IST UNTAT	1011	
PPOIECT - LOCATIO	ON # - 0	DOT INSPECTO	R -	DATE OF NEW SERVICE -	
TOWN - Introduction LOCATIO	$\frac{1}{2}$	S CLARRY CONTRACTOR'S F	REP JUB	CHANGE OVER DATE -	
TOWN TOWNS ECCATION	P	QUINNIPING ST		DATE OF NEW SERVICE CHANGE OVER DATE -	
LOOP DETECTOR TEST -	(PERFORM	MED BY CONTRACTOR) SEE	STANDARD S	HEET TR-1000_01	
TEST INSULATION RESISTANCE (MEGG	GER) LOOP (CIRCUIT RESISTANCE POWER INTERUPT	TON		
DATE					
DATE					
		ALLE STATE OF THE	00)	ATE: //18/12	
PRELIMINARY VISUAL INSP	PECTION -	- (PERFORMED BY INSPECT	OR) D	ATE:	
T	D 1000 01	PEDESTALS	TR-1102_01	PUSH BUTTONS T	R-1107_01
FOUNDATIONS T CTRL FND 4" ABOVE GROUND	R-1002_01	LOCATION	OK	ADA TYPE BUTTON, (2" DIA.), PIEZO	
CONCRETE PAD (3'X4')	X	PLUMB	OK	42" MOUNTING HEIGHT	OK
CAST IN PLACE, BRUSH FINISHED	4	BONDED TO GROUND ROD	UNK.	ACCESIBLE FROM SIDEWALK/RAMP	DK
CONDUITS BONDED TO GROUND ROD	- - -	CRUSHED STONE IN FOUNDATION (CENTER UNK.		
DUCT SEAL IN CONDUITS	1/				
				ADA REQUIREMENTS	
		TRAFFIC SIGNALS	TR-1105_01	CROSSWALKS	(4)
HANDHOLEST	R-1010_01	SPAN LAYOUT	OK	SIDEWALK (CLEAR PATH, MIN 36")	OK
FLUSH WITH GRADE	Y	PLUMB APPEARANCE	OK	RAMPS W/ DETECTABLE WARNING STRIP	N-(5
SET ON CRUSHED STONE BASE	10	FACES: TYPE & LOCATION	OK		
COVER & CONDUITS BONDED	Ō	VISORS / LOUVERS / BACK PLATES	OK		
DUCT SEAL IN CONDUITS	0	MISSING HARDWARE: BOTTOM CAPS		SIGNS	040
	71.0	HEIGHT 16'-17' TO BOTTOM	(3)	SPAN & POST MOUNT	012
		SIGHT DISTANCE (VISIBILITY)		LANE USE ARROWS	04
SPAN POLES / MAST ARMS T	R-1103_01	UTILITY CLEARANCES	OK	NTOR SIGNS	012
LOCATION	OK			STOP, STOP AHEAD, INT WARNING	N/A.
BASE GROUTED	y			SIGNAL AHEAD FLASHING "STOP AHEAD"	10/2
PROPER RAKE, PLUMB UNDER LOAD		PEDESTRIAN SIGNALS	TR-1102_01	FLASHING STOP AREAD	N/A
HEIGHT / ARM LENGTH	OK	CORRECT TYPE / SIZE	OK		
H.H. CVR. POLE CAP, BOLT CVR	OK	PROPER ADVISORY SIGNS	OK	PAVEMENT MARKINGS	
BONDED TO GROUND ROD	ONK	PROPER ADVISORY SIGNS		LANE ARROWS	N/A
I.D. TAG	(2)	1		PROPER LANE & SHOULDER WIDTH	OK
1 SPAN CLAMP PER ATTACHMENT	17			CENTER LINES	OK
				STOP BAR PLACEMENT	OK.
NOTES:		r ger		ELEPHANT TRACKS	NA
NOTES:	DENED	@ THE LOC			
10 NOT OBSERVED	PENCE			1	
BY AV EVLERT FIR SIL	. HENO !	= 2 (W.B. QUINNIPIREAST			
A)-BAR STYLE - IN F	GOR CON	DITION			& TWITE
E SOME DAMOS AND	OF AL GI	REATER THAN I" BE FO	SLOPE		
				REV'D 3	-11
6 - MOST P.M. IN	Your	COND.		FLASH-ELEC-	

FLASH-ELEC-CHKLSTCO.DGN