

**CITY OF NORWICH  
INVITATION TO BID**

**BID NO. 7273**

**Replace Loop Vehicle Detectors  
Department of Public Works**

Sealed bids will be received at the Office of the Purchasing Agent, City of Norwich, City Hall Building, Norwich, Connecticut until 2:00 p.m. Prevailing time, Thursday, April 14, 2011 and will be publicly opened and read at 2:00 p.m. in the Finance Office.

Specifications and information for bidders may be obtained at the Office of the Purchasing Agent, City Hall Building.

**BID SURETY IN THE FORM OF A CERTIFIED CHECK OR BOND IN THE  
AMOUNT OF FIVE PERCENT OF SUCH BID IS REQUIRED.**

*Bidder is to submit bid on the attached forms and in the manner requested. Bids must be deposited with the Purchasing Agent before closing time. Bids transmitted by facsimile will not be accepted.*

The right is reserved to reject any or all, or any part of any or all bids when such action is deemed in the best interest of the City.

All Bids received must be in a sealed envelope. Each envelope is to be marked on the front with bid number and the bidder's name. All final awards of bid are subject to comply with **Ordinance # 1235, adopted 12/3/91.**



WILLIAM BLOCK  
PURCHASING AGENT

City of Norwich, Connecticut

BID NO 7273

DATE: March 30, 2011

BID FORM MUST BE  
SUBMITTED IN DUPLICATE

REQUEST FOR PRICES QUOTATION ONLY

Please return on or before:  
Thursday April 14, 2011

2:00 p.m. prevailing time

THIS IS NOT AN ORDER

Item NO.	QTY	Description	Unit	Disc.	Total
		<p>Replace Loop Vehicle Detectors</p> <p>Provide the services described herein in strict accordance with the following specifications, conditions, and drawings.</p> <p>See attached bid form.</p> <p><u>NOTE:</u> This work will be awarded on the basis of lowest responsible bid and the bidder's history of successfully performing similar projects for the City</p>			

1. All quotations should be returned to the City Purchasing Agent, City Hall Building, Union Square, Norwich, Connecticut 06360.
2. The right is reserved to reject any or all quotations, and unless specified by the vendor, to accept any item in the quotation.
3. Quotations should be on requested items only. If for any reason a vendor substitutes one item for another, he must so indicate on his quotation.
4. TAXES - Purchases made by the City of Norwich are exempt from the payment of Federal Excise Taxes, and the Connecticut Sales Tax, and such taxes must not be included in bid prices.

PLEASE SPECIFY:

Delivery Date: \_\_\_\_\_

Terms: \_\_\_\_\_

Firm Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

City of Norwich  
Division of Purchasing  
Union Square  
Norwich, CT 06360

Signed 

***CITY OF NORWICH***  
***DEPARTMENT OF PUBLIC WORKS***  
***REPLACEMENT OF LOOP VEHICLE DETECTORS***

***BID 7273***



***March 2011***

CITY OF NORWICH  
REPLACEMENT OF LOOP VEHICLE DETECTORS  
TECHNICAL SPECIFICATIONS

SCOPE OF WORK

The work covered by this section of the specification consists of furnishing all labor, equipment materials and traffic control necessary to perform all operations in connection with the replacement of the loop vehicle detectors specified herein. All work, materials and equipment shall be in accordance with all applicable State of Connecticut Department of Transportation (CTDOT) Standard Specifications for Roads, Bridges and Incidental Construction Form 816 including, but not limited to, Section 11.11 and Article M.16.12.

The City of Nonvich reserves the right to add or subtract to the scope of this project.

PROJECT DESCRIPTION

The replacement of loop vehicle detectors shall occur at the following three intersection locations:

- |   |                         |
|---|-------------------------|
| 1. Prentice Street<br>(State Route 12)                      | <b>State Maintained</b> |
| 2. Boswell Avenue<br>(Intersection with Broad and Roath ST) | <b>City Maintained</b>  |
| 3. Boswell Avenue<br>(Intersection with Oak Street)         | <b>City Maintained</b>  |

The Contractor shall obtain any and all required CTDOT permits for work performed within State right-of-way, as indicated above. The Contractor shall provide 48 hours notice to the City of Nonvich Public Works Department and Nonvich Police Department prior to beginning work.

Drawings indicating the type and location of all loop vehicle detectors covered in this bid are included herein. The total linear foot of loops is approximately 950 LF including the runners.

PRE-CONSTRUCTION MEETING

The Contractor shall schedule a pre-construction meeting with the Public Works Project Engineer listed below prior to beginning any work.

Jean-Paul Laguerre  
Phone (860) 823-3798

## WORKMANSHIP

Workmanship shall be of the highest quality. All work sites shall be orderly, neat and safe. The Contractor shall use water when saw cutting the pavement as a means of reducing dust. All excess materials shall be removed from the project site upon completion of work. Any workmanship determined by the City to be below the high standards of the particular craft involved shall not be accepted by the City, and shall, at the Contractor's expense, be corrected and/or replaced as required by the Public Works Director or his designated representative.

## TRAFFIC CONTROL

The Contractor shall supply and be responsible for all labor, including traffic persons, equipment, signs, sign supports, cones and any other materials necessary. All temporary traffic control devices and flag person control shall conform to the Manual of Uniform Traffic Control Devices (MUTCD) and/or applicable CTDOT regulations. Flag persons shall wear safety apparel and be equipped with devices as prescribed by the MUTCD and/or applicable CTDOT regulations. Flagging procedures shall be in accordance with the MUTCD and/or applicable CTDOT regulations. Flagging stations shall be located such that approaching road users shall have sufficient distance to stop at an intended stopping point as required by the MUTCD and/or applicable CTDOT regulations. Flag persons shall be dedicated to traffic control duties only. If relief for the flag person is needed, another person shall assume those duties and responsibilities until the flag person returns. The cost for traffic control shall be included in the unit cost of loop detectors to be replaced.

## WORK HOURS

Work on City streets shall be performed between the hours of 7:00 a.m. and 4:00 p.m., Mondays through Fridays. Work on State of Connecticut streets shall be as per the required CTDOT permit.

## TIME FOR COMPLETION

The Project Engineer Shall coordinate the workschedule with the Contractor. The Contractor shall be given at least a week's notice prior to the beginning of the work. We are unable to schedule the work on Prentice Street and Boswell Avenue concurrently since these streets will be reconstructed at different times.

## BASIS OF PAYMENT

All work described herein shall be paid for at a unit price per linear foot of loops. This unit price shall include, but not be limited to, equipment, mobilization, labor, materials, permits, traffic control and incidentals.

CITY OF NORWICH  
DEPARTMENT OF PUBLIC WORKS  
GENERAL CONDITIONS

1. DEFINITIONS

- A. Owner - The Owner of the project is the City of Norwich acting by the Director of Public Works.
- B. Contractor - The term "contractor" as hereinafter used shall refer to the General Contractor for this work or his authorized representative.
- C. Owner's Representative - The term "Owner's Representative" as hereinafter used shall refer to any representative of the Department of Public Works who is appointed by the Department to supervise the work and shall extend to and include any engineer or inspector whom he shall designate to inspect, test, or oversee the work herein specified.
- D. Department - Whenever this term is used in these General Conditions, "Department" shall mean City of Norwich, Department of Public Works.
- E. City - Wherever the term "City" is used in these General Conditions, it shall mean the City of Norwich, the City of Norwich Department of Public Works.
- F. Contract - Wherever the term "Contract" is used in these General Conditions, it shall mean the actual bid form, specifications, drawings, General Conditions and formal purchase order issued to the successful bidder.

2. BID FORM

Attached to these specifications is a bid form which shall be used by the contractor submitting bids on this work.

Bids for this work shall be received at the Office of Purchasing Agent, City of Norwich, City Hall Building, at the time of the date designated on the bid forms, and will be publicly opened and read at the time and place, for this work. One copy of bid is for bidders.

Discrepancies between the indicated product of item unit and unit price and the correct product will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between words and figures will be resolved in favor of the words.

3. BID SECURITY

Each contractor submitting a bid shall accompany it with bid Surety in the form of cash, certified check or bid bond equal to 5% of the bid. Should the contractor refuse to go through with the work after having been awarded it by the Owner within the scheduled time or if the contractor fails to provide satisfactory performance and payment bonds as required, he shall then forfeit the Bid Surety to the Owner who shall use the surety to offset costs to the next lowest bidder. The bonding company used must be licensed to do business in the State of Connecticut.

4. CONTRACTORS BONDS AND INSURANCE

Each bidder must be able to enter into contract, covering the work, within 10 days from the acceptance of his proposal.

COMPREHENSIVE GENERAL LIABILITY

Premises - Operations - Products/Completed Operations

General Aggregate \$2,000,000.00

Occurrence \$1,000,000.00

COMPREHENSIVE AUTOMOBILE LIABILITY

Combined Single Limit \$1,000,000.00

WORKMEN'S COMPENSATION Statutory

EMPLOYERS LIABILITY \$100,000.00

Fire and Special Extended Coverage in Builder's Risk policy in the amount of 100% of insurable completed value.

Any additional insurance coverage that may be required for permits issued by other authorities having jurisdiction over the work site shall be provided by the successful bidder. If subcontractors are employed, same limits as named above shall apply and the certificate of insurance must be filed with the City.

No contract shall be binding upon the City of Norwich until such bond shall have been given and until Comprehensive General Liability, Comprehensive General Auto Liability and Workmen's Compensation policy certificates indicated above have been filed with the City and approved as to form and sufficiency by the Owner. The insurance policy certificate provided by the successful bidder and all subcontractors shall carry a statement by the insurance company that the City of Norwich will receive at least ten (10) days notice prior to cancellation of any portion of the policies or any modifications in the insurance coverage that may affect the City's interest. The cost of all insurance coverage shall be included in the price of the contract cost.

The insurance company must be licensed to do business in the State of Connecticut and must be satisfactory to the City of Norwich. THE CITY OF NORWICH MUST BE NAMED AS ADDITIONAL INSURED.

5. REPRESENTATION OF CONTRACTOR

The contractor represents and warrants that he is financially solvent and that he is experienced and competent to perform the type of work outlined on the specifications and drawings and that he has carefully examined the drawings and specifications along with addendum (or addenda), if any, and the site of the work, and that from his own investigations, he has satisfied himself as to the nature and location of the work, the character, quality and quantity of the surface and subsurface materials likely to be encountered, the character of equipment and other facilities needed for the performance of the work, the general and local conditions and all other materials which may in any

way affect the work or its performance and that he is aware of the hazards involved in the work and the danger to life and property both evident and inherent and that he will conduct the work in a careful and safe manner without injury to persons or property. He further warrants that any injury to persons or property resulting from the work shall be the sole responsibility of the contractor.

6. *NONRESIDENT CONTRACTOR BOND*

Connecticut General Statute Section 12-430(7) requires that when a nonresident contractor enters into a contract they must post a 5% cash or guarantee bond for the total contract amount with the Commissioner of Revenue Services. Bond forms are included at the end of the General Conditions.

7. *COMPETENT HELP TO BE EMPLOYED*

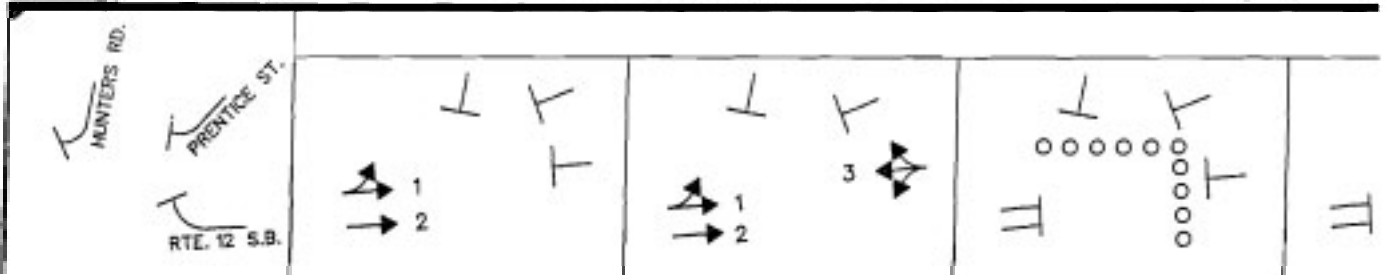
The contractor shall employ an experienced superintendent and foreman, craftsmen and other workmen competent in the work in which they are to be engaged. All work shall be accomplished by able, skilled and competent personnel. If any person employed on the work by the Contractor shall appear to be incompetent or unreliable in any way, or guilty of being noisy, profane, or otherwise disruptive to the surrounding working environment, he shall be discharged immediately upon the request of the Owner and shall not again be employed on the work.

# ***PROJECT DRAWINGS***

# *Prentice Street*

*(Norwich Avenue CT RT 12)  
(State Maintained)*





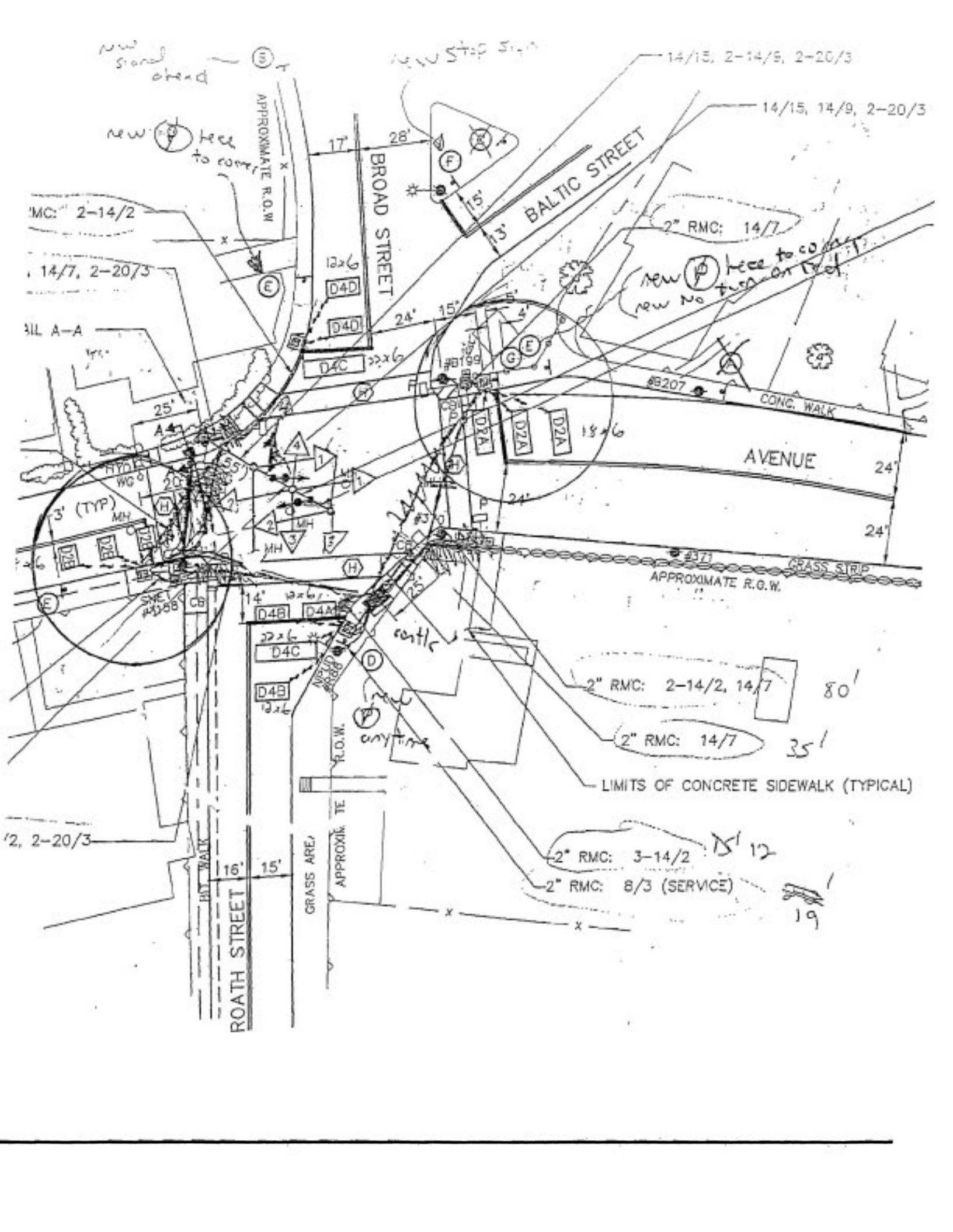
NTOR		PHASE 1			PHASE 2			PHASE 3			F
		GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN
F A C E #	1	← G	← G	G	G	Y	R	R	R	R	R
	2	G	G	G	G	Y	R	R	R	R	R
	3	R	R	R	G	Y	R	R	R	R	R
	4	R	R	R	R	R	R	R	R	R	G
	5	R	R	R	R	R	R	R	R	R	R
	P	← DW			→ WØ						
← YIELD PT.											

I N T E R V A L S	MIN GRN	6		15		7		
	WALK					7		
	PED CLR					15		
	VEH EXT					2		
	MAX 1	6		15		15		
	MAX 2	6		15		15		
	YELLOW		3		4.0		0.1	
	RED			1.2		4.4		0
	ADD INI							
	MAX INT							
	TBR							
	TTR							
MIN GAP								
MODE	MAX RECALL			MIN RECALL THIS PHASE		NON-LOCK		
INI START								

DETECTORS				PROGRAM			COORDINATION TYPE-1		
IDENT	SIZE	TURNS	MODE	FUNCTION	T I M E	DAYS	CYCLE		OFFSET # /SEC
D4	6'X6'	3	PRESENCE	FLASH	FUTURE				
D4A	6'X10'	3	PRESENCE	MAX 1	ALL TIMES				
D5	9'X6'	3	PRESENCE	MAX 2	FUTURE				
				CYCLE 1	ALL TIMES		90"	1	1
				CYCLE 2	FUTURE			2	
				CYCLE 3	FUTURE			3	

# ***Boswell Avenue***

*(Intersection with Broad Street and Roath Street)*  
*(City Maintained)*



new sand ahead

new stop sign

14/15, 2-14/9, 2-20/3

14/15, 14/9, 2-20/3

new tree to come

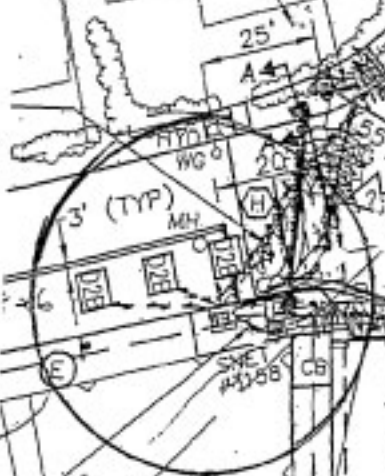
MC: 2-14/2

14/7, 2-20/3

311 A-A

2" RMC: 14/7

new tree to come  
new No Turn on Red



AVENUE

GRASS STRIP  
APPROXIMATE R.O.W.

2" RMC: 2-14/2, 14/7

80'

2" RMC: 14/7

35'

LIMITS OF CONCRETE SIDEWALK (TYPICAL)

2" RMC: 3-14/2

15' 12"

2" RMC: 8/3 (SERVICE)

19'

ROATH STREET

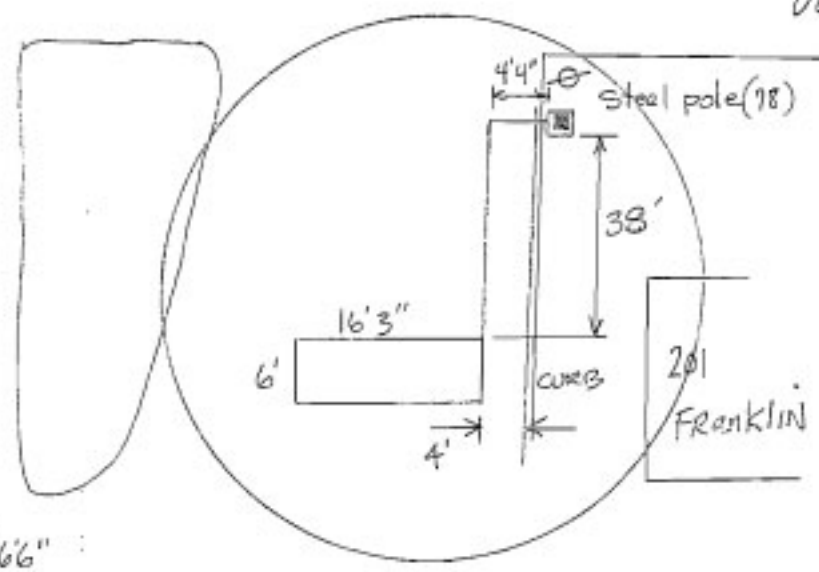
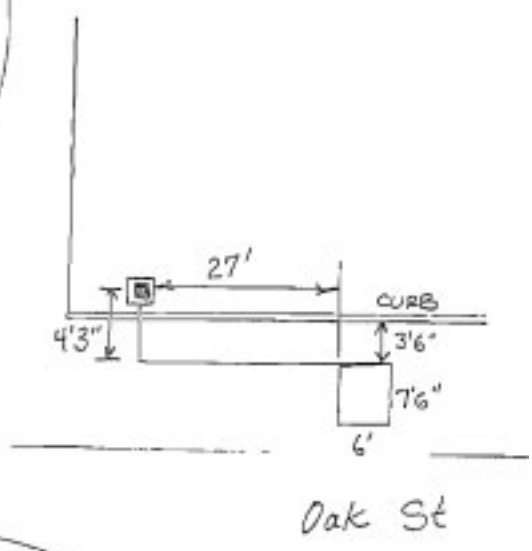
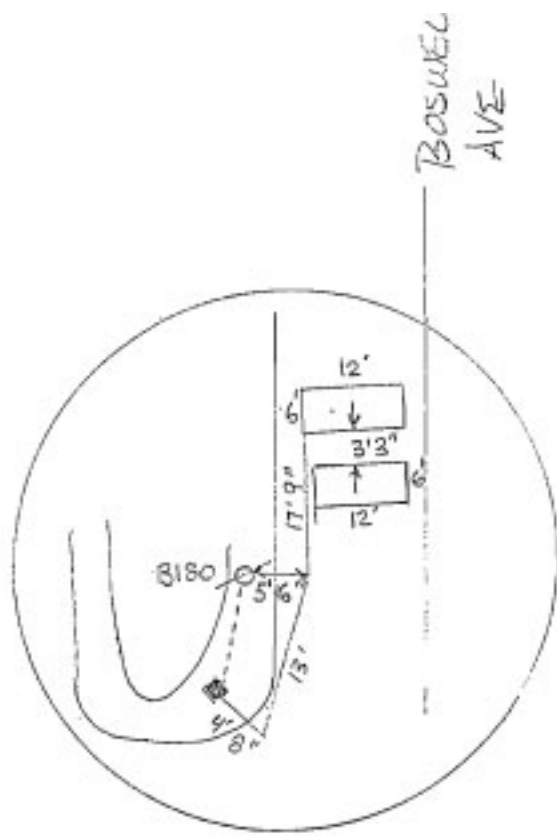
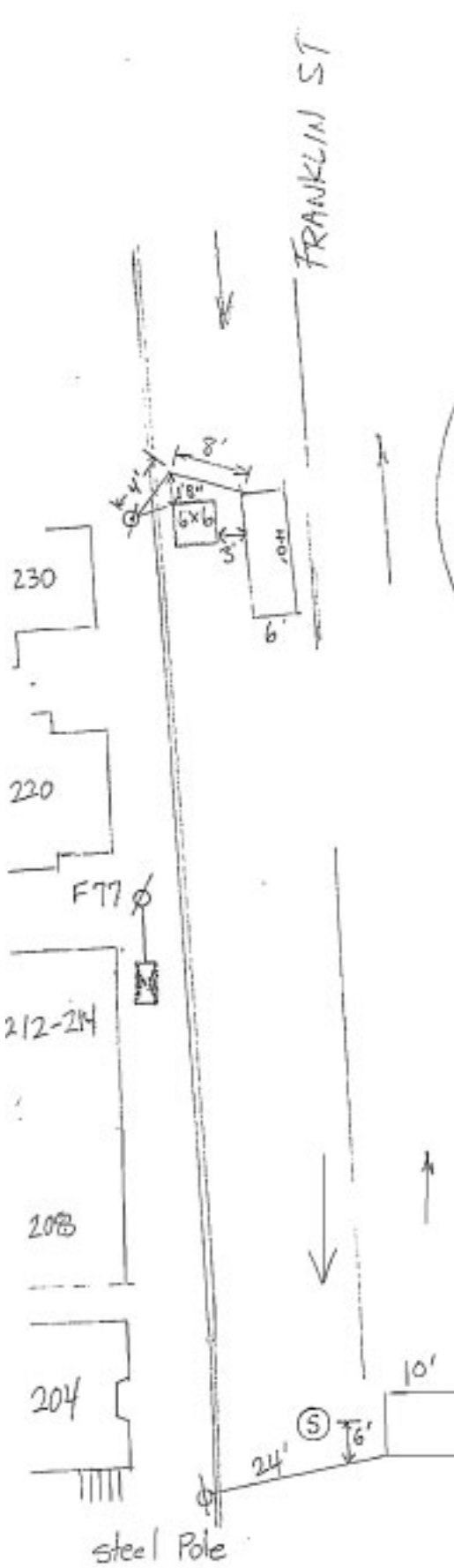
GRASS AREA

APPROXIMATE

				PRE-EMPT 1			
NTOR		PHASE 1		PHASE 2		PH	
F A C E #	1			G	Y	R	R
	2			G	Y	R	R
	3			R	R	R	R
	4			R	R	R	R
	PED			← DW →		WØ	
	MIN			10	3	1	7
	MAX			40	4	2	25
	MIN GRN			10			7
	WALK						13
	PED CLR						
VEH EXT			3				
MAX 1			17				
MAX 2			17				
YELLOW				3			
RED					2		
ADD INI							
MAX INT							
TBR							
TTR							
MIN GAP							
MODE		OFF		MIN-RECALL		NC	
INI START				THIS PHASE			
DETECTORS				PROGRAM			
IDENT	SIZE	TURNS	MODE	FUNCTION	TIME	DAYS	
D2A	18x6	2	PRESENCE	FLASH	2200-0600	DAILY	
D2B	8x6	3	PRESENCE	MAX. 1	ALL OTHER TIMES		
D4A	12x6	3	6" DELAY	MAX. 2	FUTURE		
D4B	12x6	3	PRESENCE				
D4C	22x6	2	PRESENCE				
D4D	12x6	3	PRESENCE				

# ***Boswell Avenue***

*(Intersection with Oak Street)*  
*(City Maintained)*



FRANKLIN ST

CITY OF NORWICH

REPLACEMENT OF LOOP VEHICLE DETECTORS  
BID N0.7273

BID FORM

In accordance with the specifications the undersigned submits the following bid for replacing loop vehicle detectors in the City of Norwich:

BID

Install Replacement Loop Vehicle Detectors, as per specifications.

Unit	Estimated Quantity	Unit Price	Total
LF	950	\$ _____	\$ _____

The undersigned is submitting this bid without collusion with any other individual or corporation.

SUBMITTED FOR:

SUBMITTED BY:

Firm \_\_\_\_\_

Signature \_\_\_\_\_

Address \_\_\_\_\_

Name \_\_\_\_\_

\_\_\_\_\_

Title \_\_\_\_\_

\_\_\_\_\_

Telephone \_\_\_\_\_