

IFB # 26-82

SOLICITATION FOR: Elm-Beacon Connector Traffic Signal Equipment Installation



CITY OF SOMERVILLE, MASSACHUSETTS
Jake Wilson, Mayor

Procurement and Contracting Services Department
Angela M. Allen, Chief Procurement Officer

RELEASE DATE: 6/17/2026
QUESTIONS DUE: 6/24/2026 by 2PM EST
DUE DATE AND TIME: 7/1/2026 by 3PM EST

DELIVER TO:
City of Somerville
Procurement & Contracting Services

Attn: Felisa Gárate
Senior Procurement Manager
fgarate@somervillema.gov
93 Highland Avenue
Somerville, MA 02143

IFB # 26-82
Elm-Beacon Connector Traffic Signal Equipment Installation

Key Project Information

Project Address	Elm Street at Russell Street, Summer Street, and Cutter Avenue, Elm Street at Mossland Street and Cedar Street, Elm Street at Somerville Avenue, Somerville Avenue at Beacon Street, Adelaide Road, and Mossland Street, and additional locations as specified in the scope.
Estimated Construction Cost	\$300,000
Anticipated Contract Award	7/8/2026
Date of Substantial Completion	10/31/2026
Date of Final Completion	12/31/2026
Est. Contract Commencement Date	8/1/2026
Est. Contract Completion Date	2/28/2027
Governing Bid Law	MGL 30.39M (Horizontal Construction)
Wage Requirements	State Prevailing Wages
Payment Bond Requirements	50% of Contract Value
Performance Bond Requirements	N/A
Liquidated Damages (\$ per Day)	\$250.00

Managing Department Information

Managing City Department	OSPCD - Mobility
Project Manager	Adam Polinski
Project Manager Email	apolinski@somervillema.gov

Designer Information

Designer Name	Neighborways Design
Designer Address	13 Belmont Street, Somerville, MA 02143
Designer Specialty	Engineering
Designer Contact	Jessica Mortell
Designer Contact Email	jessica@neighborways.com

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PART 1: INVITATION FOR BID DOCUMENTS

IFB # 26-82
Elm-Beacon Connector Traffic Signal Equipment Installation

1.1 General Instructions

This solicitation will be publicly available on the Procurement & Contracting Services (PCS) Department webpage <https://www.somervillema.gov/procurement> on and after 6/17/2026 . Interested parties can also contact the PCS department during the below-noted City Hall hours of operation.

City Hall Hours of Operation:	
Monday – Wednesday	8:30 a.m. to 4:30 p.m.
Thursday	8:30 a.m. to 7:30 p.m.
Friday	8:30 a.m. to 12:30 p.m.

All Responses Must be Sealed and Delivered To:

Procurement & Contracting Services Department
City of Somerville
93 Highland Avenue
Somerville, MA 02143

It is the sole responsibility of the Offeror to ensure that the bid arrives on time at the designated place. Late bids will not be considered and will be rejected and returned.

Bid Format:

Submit one, original (1) sealed bid package; it must be marked with the solicitation title and number. Online submission procedures are described below in Section 1.3.

BIDS SUBMITTED MUST BE AN ORIGINAL.

The completion of the following forms is necessary for consideration of a potential contract award. Submitting bid documents, please retain the order of documents as provided below:

- 1) Form for General Bid
- 2) Unit Price Form (if applicable)
- 3) Somerville Living Wage Form
- 4) Quality Requirements Form
- 5) Certificate of Non-Collusion & Tax Compliance
- 6) Certificate of Signature Authority
- 7) Reference Form
- 8) 5% Bid Deposit
- 9) Prevailing / Davis Bacon Wages Statement of Compliance Form
- 10) OSHA Form
- 11) Somerville Vulnerable Road Users Ordinance Form
- 12) Somerville Wage Theft Ordinance

If all required documents are not present, the bid may be deemed non-responsive and may result in disqualification of the bid unless the City determines that such failure(s) constitute(s) a minor informality, as defined in Chapter MGL 30B.

A complete bid must also include a cover letter signed by an official authorized to bind the Offeror contractually and contain a statement that the proposal is firm for ninety (90) days. An unsigned letter, or one signed by an individual not authorized to bind the Offeror, may be disqualified.
The Offeror's authorized official(s) must sign all required bid forms.
The Price Form in Section 3.0 must be completed. No substitute form will be accepted. Pricing must remain firm for the entire contract period.
All information in the Offeror's response should be clear and concise. The successful response will be incorporated into a contract as an exhibit; therefore, Offerors should not make claims to which they are not prepared to commit themselves contractually.
The successful Offeror must be an Equal Opportunity Employer.
The City of Somerville values a diverse workforce and believes it contributes to a work product and customer experience that best reflects the community in our city. Applicants are highly encouraged to include any certifications and documents that recognize the diversity of the Offeror's work force, including ownership of the offering firm/organization, executive leadership, management, and employees proposed for the work in Somerville, including diversity of sub-consultants. Please use the supplier diversity form (see Section 4.0) with supporting documentation to share your diversity data with the City.

1.2 Bid Schedule

Key dates for this Invitation for Bids:	
IFB Issued	6/17/2026
Deadline for Submitting Questions to IFB	6/24/2026 by 2PM EST
Bids Due	7/1/2026 by 3PM EST
Anticipated Contract Award	7/8/2026
Est. Contract Commencement Date	8/1/2026
Est. Contract Completion Date	2/28/2027

Responses must be delivered by 7/1/2026 by 3PM EST to:	City of Somerville Procurement & Contracting Services Department Attn: Felisa Gárate 93 Highland Avenue Somerville, MA 02143
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1.3 Submission Instructions

If you are submitting your bid online via Bidexpress.com, then you do not need to also submit a sealed bid package as instructed below. Email is not an acceptable method of submission of bids.

Please submit *one sealed bid package* with the following contents and marked in the following manner:

Contents of Sealed Bid Package	Marked As
Envelope 1: Sealed Bid: Shall Include (1) original and one (1) electronic copy. [Electronic copies are to be submitted on USB drives and are to be saved in Adobe Acrobat format. ("Read only" files are acceptable.)]	To Be Marked: IFB # 26-82 Elm-Beacon Connector Traffic Signal Equipment Installation
Please send the complete sealed package to the attention of :	Felisa Gárate Senior Procurement Manager Procurement & Contracting Services Department Somerville City Hall 93 Highland Avenue Somerville, MA 02143
Live Bid Opening Link Join Zoom Meeting https://us02web.zoom.us/j/88949150721?pwd=GOdgCS5Nj98zb7hRhflbaDY6VVL75a.1 Meeting ID: 889 4915 0721 Passcode: 920324	
Methods of Bid Submission Bidders may submit bids in any of the following ways. All bids will be timestamped and must be received no later than due date and time. 1) Sealed bids can be sent to City Hall through the US Postal Service or other delivery service (e.g. FedEx, UPS). 2) BidExpress.com is an online bidding platform where bidders can submit all required documents. The fee to use this service is approximately \$50.00 unless your company has a subscription with BidExpress. You can access the bid package and forms via the City of Somerville BidExpress page at: https://www.bidexpress.com/businesses/33100/home 3) For any technical assistance while submitting the online bid, please contact the BidExpress Customer support team at www.bidexpress.com .	

Bid Format

Responses shall be prepared on standard 8.5 x 11 inch paper (charts may be landscaped but must be on 8.5 x 11 inch paper) and shall be in a legible font size (12). All pages of each response shall be appropriately numbered (and with consecutive page numbering across tabs). **In an effort to reduce waste, we discourage the use of 3-ring binders.**

Elaborate format and binding are neither necessary nor desirable.

Qualifications & Experience

The Offeror may include any additional literature and product brochures. The Quality Requirements Form (Section 2), or set of basic business standards, must be submitted with bid.

References

The Offeror shall list at least three relevant references, which the City may contact. The City of Somerville reserves the right to use ourselves as a reference. References shall include the following information:

●The name, address, telephone number, and email address of each client listed above.	
●A description of the work performed under each contract.	●The amount of the contract.
●A description of the nature of the relationship between Offeror and the customer.	
●The dates of performance.	●The volume of the work performed.

1.4 Questions

Questions are due: 6/24/2026 by 2PM EST

Questions concerning this solicitation must be delivered in writing to:

Felisa Gárate
Senior Procurement Manager
Somerville City Hall
Procurement & Contracting Services Department
93 Highland Avenue
Somerville, MA 02143
Or emailed to:
fgarate@somervillema.gov

Or faxed to:

617-625-1344

Answers will be sent via an addendum to all Offerors who have registered as bid holders. Bidders are encouraged to contact the Procurement & Contracting Services Department to register as a bid document holder to automatically be alerted as to addenda as they are issued. It is the responsibility of the Offeror to also monitor the bid portal on the City's website for any updates, addenda, etc. regarding that specific solicitation. The web address is:

<https://www.somervillema.gov/procurement>.

Any bidders that contact City personnel outside of the Procurement & Contracting Services Department regarding this bid may be disqualified.

1.5 General Terms

Estimated Quantities

The City of Somerville has provided estimated quantities, which will be ordered/purchased over the course of the contract period. These estimates are estimates only and not guaranteed.

Bid Signature

A response must be signed as follows: 1) if the Offeror is an individual, by her/him personally; 2) if the Offeror is a partnership, by the name of the partnership, followed by the signature of each general partner; and 3) if the Offeror is a corporation, by the authorized officer, whose signature must be attested to by the clerk/secretary of the corporation (& with corporate seal).

Time for Bid Acceptance and City Contract Requirements

The contract will be awarded within 90 days after the bid opening. The time for award may be extended for up to 45 additional days by mutual agreement between the City and the apparent lowest responsive and responsible bidder. The Offeror's submission will remain in effect for a period of 90 days from the response deadline or until it is formally withdrawn, a contract is executed, or this solicitation is canceled, whichever occurs first. The Offeror will be required to sign a standard City contract per the City's general terms included herein as Part 2.

Holidays are as follows:

New Year's Day	Martin Luther King Day	Presidents' Day	Patriots' Day
Memorial Day	Juneteenth Independence Day	Independence Day	Labor Day
Indigenous Peoples' Day	Veterans' Day	Thanksgiving Day	Thanksgiving Friday
Christmas Eve (half day)	Christmas Day		

Please visit <http://www.somervillema.gov/> for the City's most recent calendar. *Under State Law, all holidays falling on Sunday must be observed on Monday.

If the awarded Offeror for their convenience desires to perform work during other than normal working hours or on other than normal work days, or if the Offeror is required to perform work at such times, the Offeror shall reimburse the City for any additional expense occasioned the City, thereby, such as, but not limited to, overtime pay for City employees, utilities service, etc. UNLESS otherwise specified in these provisions, services will be performed during normal work hours. When required services occur on holidays, work will be performed on either the previous or following work day, unless specified otherwise.

Unforeseen Office Closure

If, at the time of the scheduled bid opening, the Procurement & Contracting Services Department is closed due to uncontrolled events such as fire, snow, ice, wind, or building evacuation, the bid due date will be postponed until 2:00 p.m. on the next normal business day. Bids will be accepted until that date and time. In the event of inclement weather, the Offeror is responsible for listening to the media to determine if the City has been closed due to weather.

Changes & Addenda

If any changes are made to this solicitation, an addendum will be issued. All proposers on record as having picked up the solicitation will be alerted via email as to the posting of all addenda. The City will also post addenda on its website (<https://www.somervillema.gov/procurement>). No changes may be made to the solicitation documents by the Offerors without written authorization and/or an addendum from the Procurement & Contracting Services Department.

Modification or Withdrawal of Bids, Mistakes, and Minor Informalities

An Offeror may correct, modify, or withdraw a bid by written notice received by the City of Somerville prior to the time and date set for the bid opening. Bid modifications must be submitted in a sealed envelope clearly labeled "Modification No. ___" to the address listed in Section 1. Each modification must be numbered in sequence and must reference the original solicitation. After the bid opening, an Offeror may not change any provision of the bid in a manner prejudicial to the interests of the City or fair competition. Minor informalities will be waived or the proposer will be allowed to correct them. If a mistake and the intended bid are clearly evident on the face of the bid document, the mistake will be corrected to reflect the intended correct bid, and the proposer will be notified in writing; the proposer may not withdraw the bid. A proposer may

withdraw a bid if a mistake is clearly evident on the face of the bid document, but the intended correct bid is not similarly evident.

Right to Cancel/Reject Bids

The City of Somerville may cancel this solicitation, or reject in whole or in part any and all bids, if the City determines that cancellation or rejection serves the best interests of the City.

Unbalanced Bids

The City reserves the right to reject unbalanced, front-loaded, and conditional bids.

Brand Name “or Equal”

Any references to any brand name or proprietary product in the specifications shall require the acceptance of an equal or better brand. The City has the right to make the final determination as to whether an alternate brand is equal to the brand specified.

Electronic Funds Transfer (EFT)

For EFT payment, the following shall be included with invoices to the point of contact:

- Contract/Order number; Contractor’s name & address as stated in the contract;
- The signature (manual or electronic, as appropriate) title, and telephone number of the Offeror’s representative authorized to provide sensitive information;
- Name of financial institution; Financial institution nine (9) digit routing transit number;
- Offeror’s account number; Type of account, i.e., checking or saving.

Project Schedule

Bidders are instructed to note the firmness of the dates of: Substantial Completion, and Final Completion. For the purpose of meeting these deadlines, the City may be prepared to authorize extended work hours beyond those prescribed by City ordinance, to include work on Sundays with the prior permission of the City.

Contractor submission of all paperwork required for the Construction Contract, including but not limited to insurance certificates, performance and payment bonds, a certificate of good standing from the Secretary of Corporations, and signature pages shall be submitted to the Chief Procurement Officer no later than 5 working days from award of the contract.

The successful bidder shall be required to submit a preliminary construction schedule within 10 days of the established date of award of the Contract and a more detailed Gantt-type construction schedule within 15 days of the established award of the contract, which shows the dates of substantial and final completion.

Sales Tax Exemption

Materials, equipment, and supplies for this project are exempt from sales tax in accordance with M.G.L. Chapter 64H, Section 6 (d). The city will furnish the successful bidder with its sales tax exemption number.

Permit Fees (Contractor responsible obtaining permits/City of Somerville permit fees waived)

DPW permits to obstruct or excavate the public streets and/or sidewalks; ISD building code permits; and Traffic and Parking permits; are waived by the City of Somerville. However, license fees are not waived by the City of Somerville. The Contractor shall pay all license fees (e.g., drain layer’s license fee). The City of Somerville Traffic and Parking Department must be contacted directly for all required permits. The vendor must also provide the City of Somerville Traffic and Parking Department with a traffic management plan, prior to the start of all work.

If water usage is required in the commitment of this project, the Contractor needs to contact the DPW Water Dept., and make arrangements for a water meter. There will be a charge for the water meter and the water usage.

The Contractor is responsible for obtaining EVERSOURCE work orders and for all costs and fees associated with

EVERSOURCE.

Permits to excavate the public way cannot be issued until the applicant has notified the appropriate utility companies, as required by Massachusetts General Laws, Chapter 370 of the Acts of 1963. The applicant must either: 1) obtain written receipts from the affected utilities, and provide copies of same to the owner; or 2) utilize the Dig-Safe System for the required notifications, and also submit written notifications for those utilities not participating in the Dig-Safe System. Written notifications must state that utility companies have been notified and the contractor cleared to begin work.

<i>The following utility companies must be notified in writing:</i>		
M.B.T.A. Engineering and Maintenance Division 617-722-5454 Attn: Chief Engineer 500 Arborway Jamaica Plain, MA 02130	M.W.R.A. Sewer Division 617-242-6000 100 First Avenue Charlestown Navy Yard Boston, MA 02129	M.W.R.A. Water Division 617-242-6000 100 First Avenue Charlestown Navy Yard Boston, MA 02129
<i>The following utility companies must be notified in writing or through Dig-Safe:</i>		
Algonquin Gas Transmission Corp. 617-254-4050 Manager of Land and Public Relations 1284 Soldiers Field Road Brighton, MA 02135	Verizon 781-290-5154 460 Totten Pond Road Waltham, MA 02154	Boston Edison 617-541-5730 Right of Way 1165 Massachusetts Avenue Dorchester, MA 02125
Boston Gas Company 617-323-9210 201 Rivermoor Street West Roxbury, MA 02132	EVERSOURCE 617-497-1236, x4195 46 Blackstone Street Somerville, MA 02139	EVERSOURCE Steam 617-225-4568 Attn: Supervisor of Maintenance 265 First Street Somerville, MA 02142
EVERSOURCE Gas 617-369-5591 303 Third Street Somerville, MA 02142	A T & T Broadband 981-658-0400 760 Main Street Malden, MA 01887	Somerville Public Works Dept. 617-625-6600, x5200 One Franey Road Somerville, MA 02145
Somerville Fire Department 617-625-6600, x8100 266 Broadway Somerville, MA 02143	Dig-Safe 1-800-322-4844	

The contractor shall have all utilities marked out along the course of this work by such means as the Engineer shall approve and shall preserve such marked locations until the work has progressed to the point where the encountered utility is fully exposed and protected as required. It shall be the contractor's responsibility to notify utilities at least 48 hours prior to the start of any excavation.

The contractor is responsible for contacting any other utilities that are not listed herein.

Rodent Control

The Contractor shall retain the services of a licensed rodent exterminator to conduct an inspection of the work and laydown areas and report on the presence of rodents and take any necessary measures to eliminate rodent populations prior to start of work. All rodent control to be in place and approved prior to any equipment delivery or demolition.

A. Within ten (10) days after Notice to Proceed, submit to the Landscape Architect or Owners Representative a written description of rodent control measures to be used and the areas to be included.

B. Provide the names and background of the licensed rodent exterminator retained to provide any necessary rodent eradication measures prior to the start of work. The licensed rodent exterminator must be approved by the City Director of Inspectional Services.

C. Containers: Use metal or heavy-duty plastic refuse containers with tight fitting lids for disposal of all garbage, or trash associated with food. These containers shall not have opening that allow access by rodents.

Schedule of Values

Bidders do NOT need to include a Schedule of Values with their bid package. The successful bidder will be required to submit a refined and detailed schedule of values for review and approval by the design professional prior to signing the construction contract.

5% Bid Guaranty

All bids shall be accompanied by a bid bond or bank certified check or bank treasurer's check in the amount of 5% of the bid price, which shall become the property of the City of Somerville if the bid is accepted and the bidder neglects or refuses to comply with the terms of the bid.

Prevailing Wage Rate Requirements

The contractor shall pay Mass. Prevailing Wage Rates. The applicable prevailing wage rates are attached as part of this bid package and will be included in the resulting contract. Notwithstanding anything to the contrary, the City may, in its sole discretion withhold payment unless the City has in its possession payroll records that are complete, accurate, and current as of the date of said application for payment. A signed Compliance Form must be included with the bid package (form included).

a) The Contractor shall:

- Pay wages at least once a week;
- Submit payroll information on a weekly basis in a format approved by the City, numbered in numerical sequence and signed by the Contractor (including forms for weeks when the Contractor is not on the Project Site, in which case there shall be a notation to the effect "no work this payroll period" and a date anticipated for resuming work).

b) The Contractor shall submit to the City within the first week of construction:

- A list of apprenticeship programs with which the Contractor is affiliated;
- The number of apprentices that will be employed by the Contractor on the Project;
- A list of the Contractor's employee fringe benefits;
- A copy of each project schedule, including the anticipated commencement date for each Subcontractor; and
- A list of each Subcontractor's suppliers and material men.

c) The Contractor shall include language similar to the above in all subcontracts.

Reservation of Rights

The City reserves the right to extend the deadline for submission of bids, to waive minor informalities, and to reject any and all bids, if in its sole judgment, the best interests of the City of Somerville would be served by doing so.

Maintenance Manual and As-Built Drawing Requirements

Upon Final Completion of all construction, the contractor shall submit: two complete copies of a maintenance manual, and two copies of an as-built drawing set, with two USB copies of the as-built drawings. The City will not issue the final check for retainage until the submittal and approval of the maintenance manual and as-built drawings.

- 1) The Maintenance Manual shall be in the form of a three ring binder, organized and tabbed into appropriate sections, and shall include the following items:

- A complete maintenance plan with recommended maintenance schedules and procedures for all systems including: HVAC, security (card access/cameras), fire suppression, irrigation, fertilization, and water systems shut-down procedures, etc., and all other applicable systems and procedures;
- A letter from the contractor stating the period of warranty for all parts, materials, and workmanship, from the date of Final Completion;
- A letter from the contractor stating the period of warranty for all systems (HVAC, irrigation, fire suppression, etc.);
- All product information, product directions, and warranties;
- List of all materials and sizes, etc.;
- Copies of City permits with signatures of inspectors;
- Contact information for all subcontractors including email addresses; and,
- A record of all submittals and dates of approvals.

2) As-Built drawings shall be a complete and accurate record that incorporates any and all changes to the construction plan set issued at the time of contract initiation. As-built drawings shall be clearly marked and annotated and shall include but not be limited to: all field changes, change orders, and supplemental drawing provided by the architect/designer.

3) The USB hard drive shall include an electronic copy of all as-built drawings.

Police Details

Unless otherwise noted in the specifications, the Contractor will be responsible for requesting and paying for all necessary police details. These costs should be incorporated into the base bid amount. If use of the public way is required for staging, parking or deliveries, the Contractor is responsible for obtaining a Street Occupancy Permit, including a Traffic Management Plan (TMP) and for the cost of all police details.

Period of Performance

The period of performance for this contract begins on or about 8/1/2026 and ends on or about 2/28/2027. If applicable, optional renewal years may be exercised by the sole discretion of the City (see cover page for anticipated contract term).

Place of Performance

All services, delivery, and other required support shall be conducted in Somerville and other locations designated by the Department point of contact. Meetings between the Vendor and City personnel shall be held at the City of Somerville, Massachusetts, unless otherwise specified.

Vendor Conduct

The Vendor's employees shall comply with all City regulations, policies, and procedures. The Vendor shall ensure that their employees present professional work attire at all times. The authorized contracting body of the City may, at his/her sole discretion, direct the Vendor to remove any Vendor employee from City facilities for misconduct or safety reasons. Such rule does not relieve the Vendor of their responsibility to provide sufficient and timely service. The City will provide the Vendor with immediate written notice for the removal of the employee. Vendors must be knowledgeable of the conflict of interest law found on the Commonwealth's website <https://www.mass.gov/info-details/gl-c-268a-the-conflict-of-interest-law-as-amended-by-c-248-acts-of-2024>. Vendors may be required to take the Conflict of Interest exam.

Vendor Personnel

The Vendor shall clearly state the name of the proposed project manager. All proposed staff must demonstrate the ability to carry out the specified requirements.

Confidentiality

The Vendor agrees that it will ensure that its employees and others performing services under this contract will not use or disclose any non-public information unless authorized by the City. That includes confidential reports, information, discussions, procedures, and any other data that are collected, generated or resulting from the performance of this scope of work. All documents, photocopies, computer data, and any other information of any kind collected or received by the Vendor in connection with the contract work shall be provided to the City upon request at the termination of the contract (i.e., the date on which final payment is made on the contract or at such other time as may be requested by the City or as

otherwise agreed by City and the Vendor). The Vendor may not discuss the contract work in progress with any outside party, including responding to media and press inquiries, without the prior written permission of the City. In addition, the Vendor may not issue news releases or similar items regarding contract award, any subsequent contract modifications, or any other contract-related matter without the prior written approval of the City. Requests to make such disclosures should be addressed in writing to the Vendor's point of contact.

OSHA

Pursuant to M.G.L. c. 30, sec. 395 (a)(2) all employees to be employed on the project must have successfully completed a course in construction safety and health approved by OSHA and of at least 10 hours in duration. The vendor shall comply with all applicable OSHA standards, guidance, and rules and regulations relative to providing a safe working environment, in connection with the performance of its agents, servants, employees, contractors, and subcontractors under the terms of this contract.

Other Applicable Laws

In addition to applicable federal and state laws, the City has several ordinances that apply to the services requested in this contract. Such ordinances include but are not limited to: [living wage ordinance](#), [ordinance to protect vulnerable road users](#), [responsible employer ordinance](#), and [ordinance to protect against wage theft](#). Workplace safety is of paramount importance to all workers who perform services on City contracts and all bidders must certify that they will disclose any citations they may have received for OSHA violations.

Notice and Certification Pursuant to Somerville Wage Theft Ordinance

All Offerors, bidders, respondents have an affirmative duty to report to the Procurement & Contracting Services Department and provide a copy of any criminal or civil judgment, administrative citation, or final administrative determination, order, or debarment, relating to wage theft, against the bidder or any of its subcontractors entered within the five years prior to bid submission.

If you are the successful bidder, you and any of your subcontractors have an affirmative duty to report any criminal or civil judgment, administrative citation, final administrative determination, order, or debarment against the bidder or any its subcontractors while your contract with the City is in effect, within five business days of receipt.

You may not contract with the City if you have been either voluntarily or involuntarily debarred by the federal government, any agency of the Commonwealth of Massachusetts or any other state for the entire term of the debarment.

You may not use any subcontractor who has been debarred by the federal government or any state government during the period of that subcontractor's debarment.

You must post notices in accordance with M.G.L. c. 151 § 16 in a conspicuous location accessible to all of their employees in English and the primary language of the employee(s) at the particular workplace.

If not all employees would have reasonable access to the notice if posted in a single location, then you must inform the purchasing agent or other City Department of the number and location of postings in order to ensure that you provide reasonable notice to all of your employees.

As a condition of this bid, the bidder (a.k.a. Offeror, respondent) hereby certifies that neither the bidder nor any of the bidder's subcontractors have been subject to a criminal or civil judgment, administrative citation, final administrative determination, order, or debarment resulting from a violation of M.G.L. c. 149, M.G.L. c. 151, or 29 U.S.C. § 201 et seq. within five years prior to bid submission.

In the alternative, the Bidder hereby discloses a criminal or civil judgment, administrative citation, administrative determination, or debarment, within five years prior to bid submission. Included with the Bid is a copy of the same, in addition to documentation demonstrating that all damages, fines, costs, and fees have been paid.

IFB # 26-82
SECTION 2.0
RULE FOR AWARD /
PROJECT INFORMATION

2.1 Rule For Award

The contract shall be awarded to the responsible and eligible Bidder submitting the lowest total price. The contract will be awarded within ninety (90) days after the bid opening. The time for award may be extended for up to 45 additional days by mutual agreement between the City and the apparent lowest responsive and responsible bidder.

2.2 Background

Project Information	
Managing City Department:	OSPCD - Mobility
Project Manager:	Adam Polinski
Project Manager Email:	apolinski@somervillema.gov
Designer:	Neighborways Design
Designer Contact:	Jessica Mortell
Project Address:	Elm Street at Russell Street, Summer Street, and Cutter Avenue, Elm Street at Mossland Street and Cedar Street, Elm Street at Somerville Avenue, Somerville Avenue at Beacon Street, Adelaide Road, and Mossland Street, and additional locations as specified in the scope.
Brief Project Description:	The work to be performed under this Contract shall consist of traffic signal equipment procurement and installation plus all incidental work necessary to implement the required traffic control modifications for the installation of parking-protected bicycle lanes on public streets in Somerville, Massachusetts.
Estimated Project Cost:	\$300,000
Liquidated Damages:	\$250.00
Project Schedule	
Estimated Award Date:	7/8/2026
Estimated Start Date:	8/1/2026
Date of Substantial Completion:	10/31/2026
Date of Final Completion:	12/31/2026

2.3 Minimum Quality Requirements

Quality requirements, or basic business requirements, are the minimum set of standards that an entity must meet and certify to be considered responsible and responsive. **Please complete the Quality Requirements form, below, and submit it with your completed bid.** The City of Somerville will disqualify any response that does not meet the minimum quality requirements. A "No" response to items 1, 2, 3, or 4, or a failure to respond to any of the following minimum standards, will result in disqualification of your bid.

QUALITY REQUIREMENTS		YES	NO
1.	Does the contractor have at least 5 year of municipal traffic signal experience?		
2.	Is the contractor able to meet the requirements set forth in the scope of work?		
3.	If the contractor able to meet the response times as indicated in the bid package?		
4.	Can the Vendor certify that all employees to be provided, have successfully completed at least 10 hours of OSHA approved training in Construction Safety and Health?		
5.	Optional: Are you a Mass. Supplier Diversity Office MBE/WBE certified minority or woman owned business? Additional minority designations may be submitted by attaching supporting documentation.		

In order to provide verification of affirmative responses to items 1, 2, 3, and 4 under the quality requirements listed in the Quality Requirements Form, Offeror must submit written information that details the general background, experience, and qualifications of the organization. Subcontractors, if applicable, must be also included.

SECTION 3.0

FORM FOR GENERAL BID

The undersigned proposes to furnish all labor and materials required for: Elm-Beacon Connector Traffic Signal Equipment Installation

In accordance with the accompanying plans and specifications prepared by Neighborways Design (13 Belmont Street, Somerville, MA 02143) and specified below, subject to additions and deductions according to the terms of the specifications.

The bidder certifies the following bulleted statements and offers to supply and deliver the materials and services specified below in full accordance with the Contract Documents supplied by the City of Somerville

- The bids will be received at the office of the Chief Procurement Officer, Somerville City Hall, 93 Highland Avenue, Somerville, MA 02143 no later than **7/1/2026 by 3PM EST**
- If the **awarded** vendor is a Corporation a “Certificate of Good Standing” (produced by the Mass. Sec. of State) must be furnished with the resulting contract (see Section 4.0.)
- **Awarded Vendor** must comply with Living Wage requirements (see Section 4.0; only for services)
- **Awarded Vendor** must comply with all applicable laws, including but not limited to the [Somerville Wage Theft Ordinance](#).
- **Awarded Vendor** must comply with insurance requirements as stated in Section 4.0.
- The Chief Procurement Officer reserves the right to accept or reject any or all bids and/or to waive any informalities if in her/his sole judgment it is deemed to be in the best interest of the City of Somerville.
- The following prices shall include delivery, the cost of fuel, the cost of labor, and all other charges.
- This form to be enclosed in sealed bid package.

The proposed contract price is (total bid in figures):

\$

Total in words:	
-----------------	--

(If applicable) The contract price does not include the items listed on the attached “Bid Form for Alternates;” the bidder understands that the project construction cost estimate provided by the City is inclusive of all the work described in this form.

The undersigned agrees that, if he is selected as general contractor, he will within five days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the awarding authority, execute a contract in accordance with the terms of this bid and furnish a performance bond and also a labor and materials or payment bond (as indicated in the “Key Project Information” section on the 2nd page of this bid), each of a surety company qualified to do business under the laws of the commonwealth and satisfactory to the awarding authority and each in the sum of the contract price, the premiums for which are to be paid by the general contractor and are included in the contract price; provided, however, that if there is more than one surety company, the surety companies shall be jointly and severally liable.

The undersigned hereby certifies that he is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the work; that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that he will comply fully with all laws and regulations applicable to awards made subject to section 44A.

The undersigned further certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word “person” shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the commonwealth under the

provisions of section twenty-nine F of chapter twenty-nine, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

The Undersigned Bidder certifies under the penalties of perjury that:

- (1) Pursuant to M.G.L. c. 62C, §49A, to the best of the signatories knowledge and belief, that the Undersigned Bidder is in compliance with all laws of the Commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting child support, as well as paid all contributions and payments in lieu of contributions pursuant to MGL 151A, §19A(b); and,
- (2) the Federal Employer Identification Number (EIN) of the Bidder is: --

The Undersigned Bidder certifies under penalties of perjury that the Bidder is not presently debarred from doing federal or state public construction work, that the Bidder has not had its low bid rejected by any municipality in the previous two years, except:

in which case the reasons for rejection were as follows:

The Undersigned Bidder certifies under penalties of perjury that the Bidder will comply with all applicable laws, including City of Somerville ordinances that include but are not limited to: [living wage ordinance](#), [ordinance to protect vulnerable road users](#), [responsible employer ordinance](#), and [ordinance to protect against wage theft](#).

As a condition of this bid, the bidder hereby certifies that neither the bidder nor any of the bidder's subcontractors have been subject to a criminal or civil judgment, administrative citation, final administrative determination, order, or debarment resulting from a violation of M.G.L. c. 149, M.G.L. c. 151, or 29 U.S.C. § 201 et seq. within five years prior to bid submission.

In the alternative, the Bidder hereby discloses a criminal or civil judgment, administrative citation, administrative determination, or debarment, within five years prior to bid submission. Included with the Bid is a copy of the same, in addition to documentation demonstrating that all damages, fines, costs, and fees have been paid.

The Undersigned Bidder has submitted all requested referenced information on the Reference Form.

The Undersigned Bidder understands that the contractor and subcontractors will be required to pay prevailing wages to laborers and mechanics, and that if the Undersigned's bid is significantly below the average bid, the Awarding Authority may require the Bidder to substantiate that the bid is based on payment of wages at prevailing rates.

The Undersigned Bidder certifies that it can achieve substantial and final completion by the dates notes in Section 2.2, herein, unless otherwise noted in the Notice to Proceed as delivered to the awarded vendor.

Should certain additional work be required, or should the quantities of certain classes of work be increased or decreased from those required by the Contract Documents, by authorization of the City, unit prices listed on the attached "Unit Price Form" shall at the option of the City be the basis of payment to the Contractor or credit to the City, for such increase or decrease in the work. The unit prices shall represent the exact net amount per unit to be paid the Contractor (in the case of addition or increase) or to be refunded the City (in the case of decrease). Contractually noted adjustments will be allowed for overhead, profit, insurance or other direct or indirect expenses of the Contractor or Subcontractors.

The unit prices shall include cost of fuel, all labor, materials, equipment, overhead, profit, insurance, etc. to cover the finished work of the several kinds called for. Changes shall be processed in accordance with the provisions of the General Conditions governing changes in the work.

Executed this _____ day of _____, 20__.

Name of Company/Individual:

Address, City, State, Zip:

Tel #

Email:

Name and Title of Person Signing

Signature of Authorized Individual

Please acknowledge receipt of any and all Addenda (if applicable) by signing below and including this form in your bid package. Failure to do so may subject the proposer to disqualification.

ACKNOWLEDGEMENT OF ADDENDA:

Addendum #1 ___ **#2** ___ **#3** ___ **#4** ___ **#5** ___ **#6** ___ **#7** ___ **#8** ___ **#9** ___ **#10** ___

BID PRICING PAGE
ELM STREET-BEACON STREET CONNECTOR
SEPARATED BIKE LANE QUICK-BUILD PROJECT, SOMERVILLE, MA
Traffic Signal Installation Items

Item #	Estimate Quantity	Item Description with Unit Bid Price written in words	Unit Price		Amount	
			Dollars	Cents	Dollars	Cents
800.1	1	CONDUIT REPAIR ALLOWANCE	25,000	00	25,000	00
		AL				
804.3	40	3 INCH ELECTRICAL CONDUIT TYPE NM- PLASTIC-(UL)				
		FT				
812.31	1	PEDESTAL SIGNAL POST FOUNDATION				
		EA				
813.21	7,600	TRAFFIC SIGNAL CABLE - TYPE 1				
		FT				
816.4	4	TRAFFIC CONTROL SIGNAL REMOVED AND RESET (PED OR VEH INDICATION)				
		EA				
816.8	13	TRAFFIC CONTROL SIGNAL REMOVED AND STACKED (PED OR VEH INDICATION)				
		EA				
816.801	4	TRAFFIC CONTROL SIGNAL REMOVED AND STACKED (POLE)				
		EA				
817.01	2	SIGNAL POST ONLY - 10 FOOT				
		EA				
817.21	1	SIGNAL POST AND BASE PEDESTAL - 10 FOOT				
		EA				

818.03	6	SIGNAL HEAD 1 WAY, THREE SECTION 8 INCH LENS				
		EA				
818.112	8	12 INCH LENS REPLACEMENT				
		EA				
818.13	12	SIGNAL HEAD 1 WAY, THREE SECTION 12 INCH LENS				
		EA				
818.15	2	SIGNAL HEAD 1 WAY, FIVE SECTION 12 INCH LENS				
		EA				
818.42	6	PEDESTRIAN SIGNAL HEAD				
		EA				
818.82	18	BACK-PLATES FOR 8 INCH AND 12 INCH SIGNAL HEADS				
		EA				
819.3	2	GPS UNIT				
		EA				
819.53	1	EMERGENCY PRE-EMPTION SYSTEM				
		EA				
819.840	4	VIDEO DETECTION CORE AND CAMERA SYSTEM (ASSUMES 1 CAMERA)				
		EA				
819.841	10	ADDITIONAL VIDEO DETECTION CAMERA (360 OR APPROACH)				
		EA				
819.850	13	PEDESTRIAN PUSH BUTTON				
		EA				
888.000	1	TRANSIT SIGNAL PRORITY SYSTEM				
		EA				
888.100	1	TRAFFIC POLICE ALLOWANCE	10,000	00	10,000	00
		EA				
			Subtotal			

BID SUMMARY		
	Amount	
	Dollars	Cents
Subtotal Amount		
BID TOTAL		

Company Name: _____

Signature: _____

IFB # 26-82

SECTION 4.0

Elm-Beacon Connector Traffic Signal Equipment Installation
**REQUIRE BID FORMS /
BIDDERS' CHECKLIST**

Please ensure all documents listed on this checklist are included with your bid. Failure to do so may subject the proposer to disqualification.

Required with Sealed Bids

	Signed Cover Letter
	Form for General Bid
	Unit Price Form (if applicable)
	Somerville Living Wage Form
	Quality Requirements Form (Section 2.0)
	Certificate of Non-Collusion & Tax Compliance
	Certificate of Signature Authority
	Reference Form (or equivalent may be attached)
	5% Bid Deposit
	Prevailing / Davis Bacon Wages Statement of Compliance Form
	Wage Theft Certification Form
	OSHA Form
	Vulnerable Road Users Ordinance
	Acknowledgement of Addenda (if applicable)
	Signed W9

Required with Contract, *Post Award*

	Certificate of Good Standing from Secretary of State (furnish with bid if available)
	Certificate of Insurance (furnish sample certificate with bid, if possible)
	Statement of Management (if applicable)
	Payment Bond (50% of contract amount)



SOMERVILLE LIVING WAGE ORDINANCE CERTIFICATION FORM
CITY OF SOMERVILLE CODE OF ORDINANCES SECTION 2-397 et seq.*

Instructions: This form shall be included in all Invitations for Bids and Requests for Proposals which involve the furnishing of labor, time or effort (with no end product other than reports) by vendors contracting or subcontracting with the City of Somerville, where the contract price meets or exceeds the following dollar threshold: **\$10,000**. If the undersigned is selected, this form will be attached to the contract or subcontract and the certifications made herein shall be incorporated as part of such contract or subcontract. **Complete this form and sign and date where indicated below on page 2.**

Purpose: The purpose of this form is to ensure that such vendors pay a “Living Wage” (defined below) to all covered employees (i.e., all employees except individuals in a city, state or federally funded youth program). In the case of bids, the City will award the contract to the lowest responsive and responsible bidder paying a Living Wage. In the case of RFP’s, the City will select the most advantageous proposal from a responsive and responsible offeror paying a Living Wage. In neither case, however, shall the City be under any obligation to select a bid or proposal that exceeds the funds available for the contract.

Definition of “Living Wage”: For this contract or subcontract, as of **7/1/2026** “Living Wage” shall be deemed to be an hourly wage of no less than **\$18.85** per hour. From time to time, the Living Wage may be upwardly adjusted and amendments, if any, to the contract or subcontract may require the payment of a higher hourly rate if a higher rate is then in effect.

CERTIFICATIONS

1. The undersigned shall pay no less than the Living Wage to all covered employees who directly expend their time on the contract or subcontract with the City of Somerville.
2. The undersigned shall post a notice, (copy enclosed), to be furnished by the contracting City Department, informing covered employees of the protections and obligations provided for in the Somerville Living Wage Ordinance, and that for assistance and information, including copies of the Ordinance, employees should contact the contracting City Department. Such notice shall be posted in each location where services are performed by covered employees, in a conspicuous place where notices to employees are customarily posted.
3. The undersigned shall maintain payrolls for all covered employees and basic records relating hereto and shall preserve them for a period of three years. The records shall contain the name and address of each employee, the number of hours worked, the gross wages, a copy of the social

* Copies of the Ordinance are available upon request to the Procurement & Contracting Services Department.

Form: _____
Contract Number: _____

security returns, and evidence of payment thereof and such other data as may be required by the contracting City Department from time to time.

4. The undersigned shall submit payroll records to the City upon request and, if the City receives information of possible noncompliance with the provisions the Somerville Living Wage Ordinance, the undersigned shall permit City representatives to observe work being performed at the work site, to interview employees, and to examine the books and records relating to the payrolls being investigated to determine payment of wages.

5. The undersigned shall not fund wage increases required by the Somerville Living Wage Ordinance by reducing the health insurance benefits of any of its employees.

6. The undersigned agrees that the penalties and relief set forth in the Somerville Living Wage Ordinance shall be in addition to the rights and remedies set forth in the contract and/or subcontract.

CERTIFIED BY:

Signature: _____
(Duly Authorized Representative of Vendor)

Title: _____

Name of Vendor: _____

Date: _____

INSTRUCTIONS: PLEASE POST

**NOTICE TO ALL EMPLOYEES
REGARDING PAYMENT OF LIVING WAGE**

Under the Somerville, Massachusetts' Living Wage Ordinance (Ordinance No. 1999-1), any person or entity who has entered into a contract with the City of Somerville is required to pay its employees who are involved in providing services to the City of Somerville no less than a "Living Wage".

The Living Wage as of 7/1/2026 is **\$18.85** per hour.

For assistance and information regarding the protections and obligations provided for in the Living Wage Ordinance and/or a copy of the Living Wage Ordinance, all employees should contact the City of Somerville's Procurement & Contracting Services Department directly.



Non-Collusion Form and Tax Compliance Certification

Instructions: Complete each part of this two-part form and sign and date where indicated below.

A. NON-COLLUSION FORM

I, the undersigned, hereby certify under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person.

As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

Signature: _____
(Individual Submitted Bid or Proposal)
Duly Authorized

Name of Business or Entity: _____

Date: _____

B. TAX COMPLIANCE CERTIFICATION

Pursuant to M.G.L. c. 62C, §49A, I certify under the penalties of perjury that, to the best of my knowledge and belief, I am in compliance with all laws of the Commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting child support, as well as paid all contributions and payments in lieu of contributions pursuant to MGL 151A, §19A(b).

Signature: _____
(Duly Authorized Representative of Vendor)

Name of Business or Entity: _____

Social Security Number or Federal Tax ID#: _____

Date: _____



**Certificate of Authority
(Corporations Only)**

Instructions: Complete this form and sign and date where indicated below.

1. I hereby certify that I, the undersigned, am the duly elected Clerk/Secretary of

(Insert Full Name of Corporation)

2. I hereby certify that the following individual _____
(Insert the Name of Officer who Signed the Contract and Bonds)

is the duly elected _____ of said Corporation.
(Insert the Title of the Officer in Line 2)

3. I hereby certify that on _____
(Insert Date: Must be on or before Date Officer Signed Contract/Bonds)

at a duly authorized meeting of the Board of Directors of said corporation, at which a quorum was present, it was voted that

(Insert Name of Officer from Line 2) (Insert Title of Officer from Line 2)

of this corporation be and hereby is authorized to make, enter into, execute, and deliver contracts and bonds in the name and on behalf of said corporation, and affix its Corporate Seal thereto, and such execution of any contract of obligation in this corporation's name and on its behalf, with or without the Corporate Seal, shall be valid and binding upon this corporation; and that the above vote has not been amended or rescinded and remains in full force and effect as of the date set forth below.

4. **ATTEST:**

Signature: _____
(Clerk or Secretary)

AFFIX CORPORATE SEAL HERE

Printed Name: _____

Printed Title: _____

Date: _____

(Date Must Be on or after Date Officer Signed Contract/Bonds)



**Certificate of Authority
(Limited Liability Companies Only)**

Instructions: Complete this form and sign and date where indicated below.

1. I, the undersigned, being a member or manager of

(Complete Name of Limited Liability Company)

a limited liability company (LLC) hereby certify as to the contents of this form for the purpose of contracting with the City of Somerville.

2. The LLC is organized under the laws of the state of: _____.

3. The LLC is managed by (**check one**) a Manager or by its Members.

4. I hereby certify that each of the following individual(s) is:

- a member/manager of the LLC;
- duly authorized to execute and deliver this contract, agreement, and/or other legally binding documents relating to any contract and/or agreement on behalf of the LLC;
- duly authorized to do and perform all acts and things necessary or appropriate to carry out the terms of this contract or agreement on behalf of the LLC; and
- that no resolution, vote, or other document or action is necessary to establish such authority.

<u>Name</u>	<u>Title</u>

5. **Signature:**_____

Printed Name: _____

Printed Title:_____

Date: _____

REFERENCE FORM

Bidder: _____

IFB Title: _____

Bidder must provide references for: Three other similar sized Municipalities provided the same services

Reference: _____ Contact: _____

Address: _____ Phone: _____

_____ Email: _____

Description and date(s) of supplies or services provided: _____

Reference: _____ Contact: _____

Address: _____ Phone: _____

_____ Email: _____

Description and date(s) of supplies or services provided: _____

Reference: _____ Contact: _____

Address: _____ Phone: _____

_____ Email: _____

Description and date(s) of supplies or services provided: _____

WEEKLY PAYROLL RECORDS REPORT & STATEMENT OF COMPLIANCE

In accordance with Massachusetts General Law c. 149, §27B, a true and accurate record must be kept of all persons employed on the public works project for which the enclosed rates have been provided. A Payroll Form is available from the Department of Labor Standards (DLS) at www.mass.gov/dols/pw and includes all the information required to be kept by law. Every contractor or subcontractor is required to keep these records and preserve them for a period of three years from the date of completion of the contract.

On a weekly basis, every contractor and subcontractor is required to submit a certified copy of their weekly payroll records to the awarding authority; this includes the payroll forms and the Statement of Compliance form. The certified payroll records must be submitted either by regular mail or by e-mail to the awarding authority. Once collected, the awarding authority is required to preserve those records for three years from the date of completion of the project.

Each such contractor and subcontractor shall furnish weekly **and** within 15 days after completion of its portion of the work, to the awarding authority directly by first-class mail or e-mail, a statement, executed by the contractor, subcontractor or by any authorized officer thereof who supervised the payment of wages, this form, accompanied by their payroll:

STATEMENT OF COMPLIANCE

_____, 20_____

I, _____,
(Name of signatory party) (Title)

do hereby state:

That I pay or supervise the payment of the persons employed by

_____ on the _____
(Contractor, subcontractor or public body) (Building or project)

and that all mechanics and apprentices, teamsters, chauffeurs and laborers employed on said project have been paid in accordance with wages determined under the provisions of sections twenty-six and twenty-seven of chapter one hundred and forty nine of the General Laws.

Signature _____

Title _____

WEEKLY CERTIFIED PAYROLL REPORT AND WORKFORCE PARTICIPATION FORM

CERTIFIED PAYROLL REPORT: Pursuant to MGL c. 149, s. 27B, every contractor and subcontractor is required to submit a true and accurate copy of their certified weekly payroll records to the awarding authority by first-class mail or e-mail. In addition, each weekly payroll must be accompanied by a statement of compliance signed by the employer. Failure to comply may result in the commencement of a criminal action or the issuance of a civil citation.

WORKFORCE PARTICIPATION GOALS: The Commonwealth of Massachusetts has set the following goals for workforce participation for minorities and women. The participation goals for this project shall be 15.3% for minorities and 6.9% for women. The Contractor shall strive to achieve on this project the labor workforce participation goals contained herein. **The Contractor shall enter the number of hours worked in each trade by each employee, identified as woman, minority, or non-minority below.**

Company Name:					Address:					Phone No.:			Payroll No.:										
Employer's Signature:					Title:					Contract No.:		Tax Payer ID #:		Work Week Ending:									
Awarding Authority Name:					Public Works Project Name:					Public Works Project Location:			Min. Wage Rate Sheet Number:										
General / Prime Contractor's Name:					Subcontractor's Name:					Employer Hourly Fringe Benefit Contributions													
														(B+C+D+E) (A x F)									
Employee Name & Complete Address	Work Classification	Project Hours Non-Minority	Project Hours Minority	Project Hours Women	Employee is OSHA 10 certified (?)	Appr. Rate (%)	Hours Worked							Project Hours (A) All Other Hours	Hourly Base Wage (B)	Health & Welfare Insurance (C)	ERISA Pension Plan (D)	Supp. Unemp. (E)	Total Hourly Prev. Wage (F)	Project Gross Wages Total Gross Wages	Check No. (H)		
							Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.										

APPRENTICESHIP DOCUMENTATION:

Please answer the questions below.

- (1) Are any apprentice employees identified above?
- (2) If yes, are all apprentice employees identified above currently registered with the MA DLS Division of Apprentices Standards?
- (3) If yes, is a copy of the apprentice ID card issued by the MA DLS Division of Apprentices Standards included for all apprentice employees identified above?

YES <input style="width: 40px; height: 20px;" type="text"/>	NO <input style="width: 40px; height: 20px;" type="text"/>
YES <input style="width: 40px; height: 20px;" type="text"/>	NO <input style="width: 40px; height: 20px;" type="text"/>
YES <input style="width: 40px; height: 20px;" type="text"/>	NO <input style="width: 40px; height: 20px;" type="text"/>



**THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS
Prevailing Wage Rates**

MAURA HEALEY
Governor

KIM DRISCOLL
Lt. Governor

As determined by the Director under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

LAUREN JONES
Secretary

MICHAEL FLANAGAN
Director

Awarding Authority: Somerville **City/Town:** SOMERVILLE

Contract Number: IFB 26-82

Description of Work: Traffic signal equipment and installation and all incidental work to implement the required traffic control modifications of parking-protected bicycle lanes in Somerville, MA.

Job Location: Various locations in Somerville, MA

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- The wage rates will remain in effect for the duration of the project, except in the case of multi-year public construction projects. For construction projects lasting longer than one year, awarding authorities must request an updated wage schedule no later than two weeks before the anniversary of the date the contract was executed by the awarding authority and the general contractor. For multi-year CM AT RISK projects, the awarding authority must request an annual update no later than two weeks before the anniversary date, determined as the earlier of: (a) the execution date of the GMP Amendment, or (b) the execution date of the first amendment to permit procurement of construction services. The updated wage schedule must be provided to all contractors, including general and sub-contractors, working on the construction project.
- This annual update requirement is generally not applicable to 27F “rental of equipment” contracts. For such contracts, the prevailing wage rates issued by DLS shall remain in effect for the duration of the contract term. However, if the prevailing wage rate sheet issued does not contain wage rates for each year covered by the contract term, the Awarding Authority must request updated rate sheets from DLS and provide them to the contractor to ensure the correct rates are being paid throughout the duration of the contract. Additionally, if an Awarding Authority exercises an option to renew or extend the contract term, they must request updated rate sheets from DLS and provide them to the contractor.
- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the “Wage Request Number” on all pages of this schedule.
- An Awarding Authority must request an updated wage schedule if it has not opened bids or selected a contractor within 90 days of the date of issuance of the wage schedule. For CM AT RISK projects (bid pursuant to G.L. c.149A), the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work must be within 90-days of the wage schedule issuance date.
- The wage schedule shall be incorporated in any advertisement or call for bids for the project as required by M.G.L. c. 149, § 27. The wage schedule shall be made a part of the contract awarded for the project. The wage schedule must be posted in a conspicuous place at the work site for the life of the project in accordance with M.G.L. c. 149 § 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project whether they are employed by the prime contractor, a filed sub-bidder, or a sub-contractor.
- Apprentices working on the project are required to be registered with the Massachusetts Division of Apprentice Standards (DAS). Apprentices must keep their apprentice identification card on their persons during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. **Any apprentice not registered with DAS regardless of whether they are registered with another federal, state, local, or private agency must be paid the journeyworker’s rate.**
- Every contractor or subcontractor working on the construction project must submit weekly payroll reports and a Statement of Compliance directly to the awarding authority by mail or email and keep them on file for three years. Each weekly payroll report must contain: the employee’s name, address, occupational classification, hours worked, and wages paid. Do not submit weekly payroll reports to DLS. For a sample payroll reporting form go to <http://www.mass.gov/dols/pw>.
- Contractors with questions about the wage rates or classifications included on the wage schedule have an affirmative obligation to inquire with DLS at (617) 626-6953.
- Contractors must obtain the wage schedules from awarding authorities. Failure of a contractor or subcontractor to pay the prevailing wage rates listed on the wage schedule to all employees who perform construction work on the project is a violation of the law and subjects the contractor or subcontractor to civil and criminal penalties.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may file a complaint with the Fair Labor Division of the office of the Attorney General at (617) 727-3465.

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
(2 AXLE) DRIVER - EQUIPMENT	6/1/2026	\$43.05	\$15.41	\$21.78	\$0.00	\$0.00	\$80.24
TEAMSTERS JOINT COUNCIL NO. 10	8/1/2026	\$43.05	\$15.91	\$21.78	\$0.00	\$0.00	\$80.74
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/1/2026	\$43.05	\$15.91	\$23.52	\$0.00	\$0.00	\$82.48
(3 AXLE) DRIVER - EQUIPMENT	6/1/2026	\$43.12	\$15.41	\$21.78	\$0.00	\$0.00	\$80.31
TEAMSTERS JOINT COUNCIL NO. 10	8/1/2026	\$43.12	\$15.91	\$21.78	\$0.00	\$0.00	\$80.81
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/1/2026	\$43.12	\$15.91	\$23.52	\$0.00	\$0.00	\$82.55
(4 & 5 AXLE) DRIVER - EQUIPMENT	6/1/2026	\$43.24	\$15.41	\$21.78	\$0.00	\$0.00	\$80.43
TEAMSTERS JOINT COUNCIL NO. 10	8/1/2026	\$43.24	\$15.91	\$21.78	\$0.00	\$0.00	\$80.93
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/1/2026	\$43.24	\$15.91	\$23.52	\$0.00	\$0.00	\$82.67
ADS/SUBMERSIBLE PILOT	1/1/2024	\$117.16	\$10.08	\$11.62	\$12.67	\$0.00	\$151.53
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 1)							
For apprentice rates see "Apprentice- PILE DRIVER"							
AIR TRACK OPERATOR	6/1/2026	\$49.15	\$10.90	\$9.75	\$9.65	\$0.00	\$79.45
LABORERS	12/1/2026	\$51.40	\$10.90	\$9.75	\$9.65	\$0.00	\$81.70
LABORERS - ZONE 1	6/1/2027	\$53.00	\$10.90	\$9.75	\$9.65	\$0.00	\$83.30
	12/1/2027	\$54.60	\$10.90	\$9.75	\$9.65	\$0.00	\$84.90
	6/1/2028	\$56.28	\$10.90	\$9.75	\$9.65	\$0.00	\$86.58
	12/1/2028	\$57.95	\$10.90	\$9.75	\$9.65	\$0.00	\$88.25
For apprentice rates see "Apprentice- LABORER"							
AIR TRACK OPERATOR (HEAVY & HIGHWAY)	6/1/2026	\$50.00	\$10.90	\$9.75	\$9.65	\$0.00	\$80.30
LABORERS	12/1/2026	\$51.50	\$10.90	\$9.75	\$9.65	\$0.00	\$81.80
LABORERS - ZONE 1 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
ASBESTOS REMOVER - PIPE / MECH. EQUIPT.	12/1/2025	\$44.80	\$14.50	\$4.30	\$6.75	\$0.00	\$70.35
HEAT & FROST INSULATORS LOCAL 6							
HEAT & FROST INSULATORS LOCAL 6 (BOSTON)							
ASPHALT RAKER	6/1/2026	\$49.40	\$10.90	\$9.75	\$9.65	\$0.00	\$79.70
LABORERS	12/1/2026	\$50.90	\$10.90	\$9.75	\$9.65	\$0.00	\$81.20
LABORERS - ZONE 1	6/1/2027	\$52.50	\$10.90	\$9.75	\$9.65	\$0.00	\$82.80
	12/1/2027	\$54.10	\$10.90	\$9.75	\$9.65	\$0.00	\$84.40
	6/1/2028	\$55.78	\$10.90	\$9.75	\$9.65	\$0.00	\$86.08
	12/1/2028	\$57.45	\$10.90	\$9.75	\$9.65	\$0.00	\$87.75
For apprentice rates see "Apprentice- LABORER"							
ASPHALT RAKER (HEAVY & HIGHWAY)	6/1/2026	\$49.50	\$10.90	\$9.75	\$9.65	\$0.00	\$79.80
LABORERS	12/1/2026	\$51.00	\$10.90	\$9.75	\$9.65	\$0.00	\$81.30
LABORERS - ZONE 1 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE	6/1/2026	\$59.38	\$17.05	\$13.35	\$3.25	\$0.00	\$93.03
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.83	\$17.05	\$13.35	\$3.25	\$0.00	\$94.48
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BACKHOE/FRONT-END LOADER OPERATING ENGINEERS LOCAL 4	6/1/2026	\$59.38	\$17.05	\$13.35	\$3.25	\$0.00	\$93.03
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.83	\$17.05	\$13.35	\$3.25	\$0.00	\$94.48

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

BARCO-TYPE JUMPING TAMPER LABORERS	6/1/2026	\$49.40	\$10.90	\$9.75	\$9.65	\$0.00	\$79.70
LABORERS - ZONE 1	12/1/2026	\$50.90	\$10.90	\$9.75	\$9.65	\$0.00	\$81.20
	6/1/2027	\$52.50	\$10.90	\$9.75	\$9.65	\$0.00	\$82.80
	12/1/2027	\$54.10	\$10.90	\$9.75	\$9.65	\$0.00	\$84.40
	6/1/2028	\$55.78	\$10.90	\$9.75	\$9.65	\$0.00	\$86.08
	12/1/2028	\$57.45	\$10.90	\$9.75	\$9.65	\$0.00	\$87.75

For apprentice rates see "Apprentice- LABORER"

BLOCK PAVER, RAMMER / CURB SETTER LABORERS	6/1/2026	\$49.15	\$10.90	\$9.75	\$9.65	\$0.00	\$79.45
LABORERS - ZONE 1	12/1/2026	\$51.40	\$10.90	\$9.75	\$9.65	\$0.00	\$81.70
	6/1/2027	\$53.00	\$10.90	\$9.75	\$9.65	\$0.00	\$83.30
	12/1/2027	\$54.60	\$10.90	\$9.75	\$9.65	\$0.00	\$84.90
	6/1/2028	\$56.28	\$10.90	\$9.75	\$9.65	\$0.00	\$86.58
	12/1/2028	\$57.95	\$10.90	\$9.75	\$9.65	\$0.00	\$88.25

For apprentice rates see "Apprentice- LABORER"

BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) LABORERS	6/1/2026	\$50.00	\$10.90	\$9.75	\$9.65	\$0.00	\$80.30
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	12/1/2026	\$51.50	\$10.90	\$9.75	\$9.65	\$0.00	\$81.80

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

BOILER MAKER BOILERMAKERS LOCAL 29	1/1/2024	\$48.12	\$7.07	\$14.60	\$6.00	\$0.00	\$75.79
BOILERMAKERS LOCAL 29							

Apprentice: BOILER MAKER							
Effective Date: 1/1/2024							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	65.00	\$31.28	\$7.07	\$9.32	\$3.90	\$0.00	\$51.57
2	65.00	\$31.28	\$7.07	\$9.32	\$3.90	\$0.00	\$51.57
3	70.00	\$33.68	\$7.07	\$10.03	\$4.20	\$0.00	\$54.98
4	75.00	\$36.09	\$7.07	\$10.74	\$4.50	\$0.00	\$58.40
5	80.00	\$38.50	\$7.07	\$11.45	\$4.80	\$0.00	\$61.82
6	85.00	\$40.90	\$7.07	\$12.18	\$5.10	\$0.00	\$65.25
7	90.00	\$43.31	\$7.07	\$12.88	\$5.40	\$0.00	\$68.66
8	95.00	\$45.71	\$7.07	\$13.62	\$5.70	\$0.00	\$72.10

Apprentice to Journeyworker Ratio: 1:4

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)	2/1/2026	\$67.95	\$12.84	\$15.57	\$8.02	\$0.00	\$104.38
BRICKLAYERS LOCAL 3	8/1/2026	\$70.15	\$12.84	\$15.57	\$8.02	\$0.00	\$106.58
BRICKLAYERS LOCAL 3 (BOSTON)	2/1/2027	\$71.55	\$12.84	\$15.57	\$8.02	\$0.00	\$107.98

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CARPENTER	3/1/2026	\$62.19	\$10.58	\$11.47	\$8.50	\$0.00	\$92.74
CARPENTERS	9/1/2026	\$63.69	\$10.58	\$11.47	\$8.50	\$0.00	\$94.24
CARPENTERS -ZONE 1 (Metro Boston)	3/1/2027	\$65.19	\$10.58	\$11.47	\$8.50	\$0.00	\$95.74

Apprentice: CARPENTER							
Effective Date: 3/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$27.99	\$11.08	\$0.00	\$1.73	\$0.00	\$40.80
2	45.00	\$27.99	\$11.08	\$0.00	\$1.73	\$0.00	\$40.80
3	55.00	\$34.20	\$11.08	\$0.00	\$3.40	\$0.00	\$48.68
4	55.00	\$34.20	\$11.08	\$0.00	\$3.40	\$0.00	\$48.68
5	70.00	\$43.53	\$11.08	\$11.41	\$5.10	\$0.00	\$71.12
6	70.00	\$43.53	\$11.08	\$11.41	\$5.10	\$0.00	\$71.12
7	80.00	\$49.75	\$11.08	\$11.44	\$6.80	\$0.00	\$79.07
8	80.00	\$49.75	\$11.08	\$11.44	\$6.80	\$0.00	\$79.07

Apprentice: CARPENTER							
Effective Date: 9/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$28.66	\$11.08	\$0.00	\$1.73	\$0.00	\$41.47
2	45.00	\$28.66	\$11.08	\$0.00	\$1.73	\$0.00	\$41.47
3	55.00	\$35.03	\$11.08	\$0.00	\$3.40	\$0.00	\$49.51
4	55.00	\$35.03	\$11.08	\$0.00	\$3.40	\$0.00	\$49.51
5	70.00	\$44.58	\$11.08	\$11.41	\$5.10	\$0.00	\$72.17
6	70.00	\$44.58	\$11.08	\$11.41	\$5.10	\$0.00	\$72.17
7	80.00	\$50.95	\$11.08	\$11.44	\$6.80	\$0.00	\$80.27
8	80.00	\$50.95	\$11.08	\$11.44	\$6.80	\$0.00	\$80.27

Apprentice to Journeyworker Ratio: 1:5

CARPENTER WOOD FRAME	4/1/2026	\$39.39	\$8.29	\$4.47	\$5.00	\$0.00	\$57.15
CARPENTERS	10/1/2026	\$40.19	\$8.29	\$4.47	\$5.00	\$0.00	\$57.95
CARPENTERS -ZONE 1 (Wood Frame)	4/1/2027	\$40.99	\$8.29	\$4.47	\$5.00	\$0.00	\$58.75

All Aspects of New Wood Frame Work

Apprentice: CARPENTER WOOD FRAME							
Effective Date: 4/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$19.70	\$8.29	\$0.00	\$0.00	\$0.00	\$27.99
2	50.00	\$19.70	\$8.29	\$0.00	\$0.00	\$0.00	\$27.99
3	55.00	\$21.66	\$8.29	\$0.00	\$2.00	\$0.00	\$31.95
4	55.00	\$21.66	\$8.29	\$0.00	\$2.00	\$0.00	\$31.95
5	70.00	\$27.57	\$8.29	\$4.47	\$3.00	\$0.00	\$43.33

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: CEMENT MASONRY/PLASTERING							
Effective Date: 7/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$27.25	\$13.35	\$16.43	\$0.00	\$0.00	\$57.03
2	60.00	\$32.69	\$13.35	\$16.43	\$7.78	\$1.80	\$72.05
3	65.00	\$35.42	\$13.35	\$16.43	\$7.78	\$1.80	\$74.78
4	70.00	\$38.14	\$13.35	\$16.43	\$7.78	\$1.80	\$77.50
5	75.00	\$40.87	\$13.35	\$16.43	\$7.78	\$1.80	\$80.23
6	80.00	\$43.59	\$13.35	\$16.43	\$7.78	\$1.80	\$82.95
7	90.00	\$49.04	\$13.35	\$0.00	\$7.78	\$0.00	\$70.17
Apprentice to Journeyworker Ratio: 1:5							

CHAIN SAW OPERATOR	6/1/2026	\$49.40	\$10.90	\$9.75	\$9.65	\$0.00	\$79.70
LABORERS	12/1/2026	\$50.90	\$10.90	\$9.75	\$9.65	\$0.00	\$81.20
LABORERS - ZONE 1	6/1/2027	\$52.50	\$10.90	\$9.75	\$9.65	\$0.00	\$82.80
	12/1/2027	\$54.10	\$10.90	\$9.75	\$9.65	\$0.00	\$84.40
	6/1/2028	\$55.78	\$10.90	\$9.75	\$9.65	\$0.00	\$86.08
	12/1/2028	\$57.45	\$10.90	\$9.75	\$9.65	\$0.00	\$87.75

For apprentice rates see "Apprentice- LABORER"

CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES	6/1/2026	\$60.61	\$17.05	\$13.35	\$3.25	\$0.00	\$94.26
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$62.09	\$17.05	\$13.35	\$3.25	\$0.00	\$95.74
OPERATING ENGINEERS LOCAL 4							

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

COMPRESSOR OPERATOR	6/1/2026	\$37.63	\$17.05	\$13.35	\$3.25	\$0.00	\$71.28
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$38.58	\$17.05	\$13.35	\$3.25	\$0.00	\$72.23
OPERATING ENGINEERS LOCAL 4							

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

DELEADER (BRIDGE)	1/1/2026	\$59.56	\$10.35	\$12.00	\$12.60	\$0.00	\$94.51
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 1							

Apprentice: DELEADER (BRIDGE)							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$29.78	\$10.35	\$0.00	\$0.00	\$0.00	\$40.13
2	55.00	\$32.76	\$10.35	\$0.00	\$6.93	\$0.00	\$50.04
3	60.00	\$35.74	\$10.35	\$0.00	\$7.56	\$0.00	\$53.65
4	65.00	\$38.71	\$10.35	\$0.00	\$8.19	\$0.00	\$57.25
5	70.00	\$41.69	\$10.35	\$12.00	\$8.82	\$0.00	\$72.86
6	75.00	\$44.67	\$10.35	\$12.00	\$9.45	\$0.00	\$76.47
7	80.00	\$47.65	\$10.35	\$12.00	\$10.08	\$0.00	\$80.08
8	90.00	\$53.60	\$10.35	\$12.00	\$11.34	\$0.00	\$87.29

Apprentice to Journeyworker Ratio: 1:1

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
DEMO: ADZEMAN LABORERS	6/1/2026	\$49.30	\$10.90	\$9.75	\$9.65	\$0.00	\$79.60
LABORERS - ZONE 1	12/7/2026	\$50.80	\$10.90	\$9.75	\$9.65	\$0.00	\$81.10
	6/7/2027	\$52.40	\$10.90	\$9.75	\$9.65	\$0.00	\$82.70
	12/6/2027	\$54.00	\$10.90	\$9.75	\$9.65	\$0.00	\$84.30
	6/5/2028	\$55.68	\$10.90	\$9.75	\$9.65	\$0.00	\$85.98
	12/4/2028	\$57.35	\$10.90	\$9.75	\$9.65	\$0.00	\$87.65

For apprentice rates see "Apprentice- LABORER"

DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS	6/1/2026	\$50.30	\$10.90	\$9.75	\$9.65	\$0.00	\$80.60
LABORERS - ZONE 1	12/7/2026	\$51.80	\$10.90	\$9.75	\$9.65	\$0.00	\$82.10
	6/7/2027	\$53.40	\$10.90	\$9.75	\$9.65	\$0.00	\$83.70
	12/6/2027	\$55.00	\$10.90	\$9.75	\$9.65	\$0.00	\$85.30
	6/5/2028	\$56.68	\$10.90	\$9.75	\$9.65	\$0.00	\$86.98
	12/4/2028	\$58.35	\$10.90	\$9.75	\$9.65	\$0.00	\$88.65

For apprentice rates see "Apprentice- LABORER"

DEMO: BURNERS LABORERS	6/1/2026	\$50.05	\$10.90	\$9.75	\$9.65	\$0.00	\$80.35
LABORERS - ZONE 1	12/7/2026	\$51.55	\$10.90	\$9.75	\$9.65	\$0.00	\$81.85
	6/7/2027	\$53.15	\$10.90	\$9.75	\$9.65	\$0.00	\$83.45
	12/6/2027	\$54.75	\$10.90	\$9.75	\$9.65	\$0.00	\$85.05
	6/5/2028	\$56.43	\$10.90	\$9.75	\$9.65	\$0.00	\$86.73
	12/4/2028	\$58.10	\$10.90	\$9.75	\$9.65	\$0.00	\$88.40

For apprentice rates see "Apprentice- LABORER"

DEMO: CONCRETE CUTTER/SAWYER LABORERS	6/1/2026	\$50.30	\$10.90	\$9.75	\$9.65	\$0.00	\$80.60
LABORERS - ZONE 1	12/7/2026	\$51.80	\$10.90	\$9.75	\$9.65	\$0.00	\$82.10
	6/7/2027	\$53.40	\$10.90	\$9.75	\$9.65	\$0.00	\$83.70
	12/6/2027	\$55.00	\$10.90	\$9.75	\$9.65	\$0.00	\$85.30
	6/5/2028	\$56.68	\$10.90	\$9.75	\$9.65	\$0.00	\$86.98
	12/4/2028	\$58.35	\$10.90	\$9.75	\$9.65	\$0.00	\$88.65

For apprentice rates see "Apprentice- LABORER"

DEMO: JACKHAMMER OPERATOR LABORERS	6/1/2026	\$50.05	\$10.90	\$9.75	\$9.65	\$0.00	\$80.35
LABORERS - ZONE 1	12/7/2026	\$51.55	\$10.90	\$9.75	\$9.65	\$0.00	\$81.85
	6/7/2027	\$53.15	\$10.90	\$9.75	\$9.65	\$0.00	\$83.45
	12/6/2027	\$54.75	\$10.90	\$9.75	\$9.65	\$0.00	\$85.05
	6/5/2028	\$56.43	\$10.90	\$9.75	\$9.65	\$0.00	\$86.73
	12/4/2028	\$58.10	\$10.90	\$9.75	\$9.65	\$0.00	\$88.40

For apprentice rates see "Apprentice- LABORER"

DEMO: WRECKING LABORER LABORERS	6/1/2026	\$49.30	\$10.90	\$9.75	\$9.65	\$0.00	\$79.60
LABORERS - ZONE 1	12/7/2026	\$50.80	\$10.90	\$9.75	\$9.65	\$0.00	\$81.10
	6/7/2027	\$52.40	\$10.90	\$9.75	\$9.65	\$0.00	\$82.70
	12/6/2027	\$54.00	\$10.90	\$9.75	\$9.65	\$0.00	\$84.30
	6/5/2028	\$55.68	\$10.90	\$9.75	\$9.65	\$0.00	\$85.98
	12/4/2028	\$57.35	\$10.90	\$9.75	\$9.65	\$0.00	\$87.65

For apprentice rates see "Apprentice- LABORER"

DIRECTIONAL DRILL MACHINE OPERATOR OPERATING ENGINEERS LOCAL 4	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
DIVER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 1)	8/1/2024	\$78.11	\$10.08	\$11.62	\$10.04	\$0.00	\$109.85
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Diver wage 70/80/90 2A \$69.83, 3A \$91.79,4A \$102.14 Total Rate							
DIVER TENDER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 1)	8/1/2024	\$55.79	\$10.08	\$11.62	\$12.67	\$0.00	\$90.16
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Piledriver wage 70/80/90 2A \$54.20, 3A \$73.93,4A \$82.05 Total Rate							
DIVER TENDER (EFFLUENT) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 1)	8/1/2024	\$83.69	\$10.08	\$11.62	\$12.67	\$0.00	\$118.06
For apprentice rates see "Apprentice- PILE DRIVER"							
DIVER/SLURRY (EFFLUENT) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 1)	8/1/2024	\$117.16	\$10.08	\$11.62	\$12.67	\$0.00	\$151.53
For apprentice rates see "Apprentice- PILE DRIVER"							
DRAWBRIDGE OPERATOR (Construction) DRAWBRIDGE - SEIU LOCAL 888 DRAWBRIDGE - SEIU LOCAL 888	7/1/2020	\$26.77	\$6.67	\$3.93	\$0.00	\$0.16	\$37.53
ELECTRICIAN ELECTRICIANS LOCAL 103 ELECTRICIANS LOCAL 103	3/1/2026	\$66.86	\$13.00	\$14.64	\$9.00	\$0.00	\$103.50
	9/1/2026	\$68.78	\$13.00	\$14.69	\$9.00	\$0.00	\$105.47
	3/1/2027	\$69.97	\$13.00	\$14.73	\$9.00	\$0.00	\$106.70
	9/1/2027	\$71.88	\$13.00	\$14.79	\$9.00	\$0.00	\$108.67
	3/1/2028	\$73.08	\$13.00	\$14.82	\$9.00	\$0.00	\$109.90

Apprentice: ELECTRICIAN							
Effective Date: 3/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$26.74	\$13.00	\$0.80	\$0.00	\$0.00	\$40.54
2	40.00	\$26.74	\$13.00	\$0.80	\$0.00	\$0.00	\$40.54
3	45.00	\$30.09	\$13.00	\$13.53	\$4.05	\$0.00	\$60.67
4	45.00	\$30.09	\$13.00	\$13.53	\$4.05	\$0.00	\$60.67
5	50.00	\$33.43	\$13.00	\$13.63	\$4.50	\$0.00	\$64.56
6	55.00	\$36.77	\$13.00	\$13.73	\$4.95	\$0.00	\$68.45
7	60.00	\$40.12	\$13.00	\$13.83	\$5.40	\$0.00	\$72.35
8	65.00	\$43.46	\$13.00	\$13.93	\$5.85	\$0.00	\$76.24
9	70.00	\$46.80	\$13.00	\$14.03	\$6.30	\$0.00	\$80.13
10	75.00	\$50.15	\$13.00	\$14.13	\$6.75	\$0.00	\$84.03

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
ELEVATOR CONSTRUCTOR HELPER	1/1/2026	\$54.08	\$16.38	\$11.06	\$10.07	\$0.00	\$91.59
ELEVATOR CONSTRUCTORS LOCAL 4	1/1/2027	\$56.39	\$16.48	\$11.16	\$11.00	\$0.00	\$95.03
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"							
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY)	6/1/2026	\$49.50	\$10.90	\$9.75	\$9.65	\$0.00	\$79.80
LABORERS	12/1/2026	\$51.00	\$10.90	\$9.75	\$9.65	\$0.00	\$81.30
LABORERS - ZONE 1 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
FIELD ENG.INST.PERSON-BLDG,SITE,HVY/HWY	5/1/2026	\$54.40	\$16.55	\$13.35	\$3.25	\$0.00	\$87.55
OPERATING ENGINEERS LOCAL 4	11/1/2026	\$55.69	\$16.55	\$13.35	\$3.25	\$0.00	\$88.84
OPERATING ENGINEERS LOCAL 4	5/1/2027	\$57.12	\$16.55	\$13.35	\$3.25	\$0.00	\$90.27
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
FIELD ENG.PARTY CHIEF-BLDG,SITE,HVY/HWY	5/1/2026	\$56.02	\$16.55	\$13.35	\$3.25	\$0.00	\$89.17
OPERATING ENGINEERS LOCAL 4	11/1/2026	\$57.32	\$16.55	\$13.35	\$3.25	\$0.00	\$90.47
OPERATING ENGINEERS LOCAL 4	5/1/2027	\$58.77	\$16.55	\$13.35	\$3.25	\$0.00	\$91.92
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
FIELD ENG.ROD PERSON-BLDG,SITE,HVY/HWY	5/1/2026	\$26.28	\$16.55	\$13.35	\$3.25	\$0.00	\$59.43
OPERATING ENGINEERS LOCAL 4	11/1/2026	\$27.04	\$16.55	\$13.35	\$3.25	\$0.00	\$60.19
OPERATING ENGINEERS LOCAL 4	5/1/2027	\$27.89	\$16.55	\$13.35	\$3.25	\$0.00	\$61.04
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
FIRE ALARM INSTALLER	3/1/2026	\$66.86	\$13.00	\$14.64	\$9.00	\$0.00	\$103.50
ELECTRICIANS LOCAL 103	9/1/2026	\$68.78	\$13.00	\$14.69	\$9.00	\$0.00	\$105.47
ELECTRICIANS LOCAL 103	3/1/2027	\$69.97	\$13.00	\$14.73	\$9.00	\$0.00	\$106.70
	9/1/2027	\$71.88	\$13.00	\$14.79	\$9.00	\$0.00	\$108.67
	3/1/2028	\$73.08	\$13.00	\$14.82	\$9.00	\$0.00	\$109.90
For apprentice rates see "Apprentice- ELECTRICIAN"							
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING	3/1/2026	\$53.49	\$13.00	\$14.23	\$7.20	\$0.00	\$87.92
ELECTRICIANS LOCAL 103	9/1/2026	\$55.02	\$13.00	\$14.28	\$7.20	\$0.00	\$89.50
ELECTRICIANS LOCAL 103	3/1/2027	\$55.98	\$13.00	\$14.31	\$7.20	\$0.00	\$90.49
	9/1/2027	\$57.50	\$13.00	\$14.36	\$7.20	\$0.00	\$92.06
	3/1/2028	\$58.46	\$13.00	\$14.38	\$7.20	\$0.00	\$93.04
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"							
FIREMAN (ASST. ENGINEER)	6/1/2026	\$47.55	\$17.05	\$13.35	\$3.25	\$0.00	\$81.20
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$48.73	\$17.05	\$13.35	\$3.25	\$0.00	\$82.38
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
FLAGGER & SIGNALER (HEAVY & HIGHWAY)	6/1/2026	\$29.21	\$10.90	\$9.75	\$9.65	\$0.00	\$59.51
LABORERS	12/1/2026	\$29.21	\$10.90	\$9.75	\$9.65	\$0.00	\$59.51
LABORERS - ZONE 1 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
FLOORCOVERER	3/1/2026	\$59.24	\$10.33	\$11.47	\$8.80	\$0.00	\$89.84
FLOORCOVERERS LOCAL 2168	9/1/2026	\$60.74	\$10.33	\$11.47	\$8.80	\$0.00	\$91.34
FLOORCOVERERS LOCAL 2168 ZONE I	3/1/2027	\$62.24	\$10.33	\$11.47	\$8.80	\$0.00	\$92.84

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: FLOORCOVERER							
Effective Date: 3/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$26.66	\$10.33	\$0.00	\$1.76	\$0.00	\$38.75
2	45.00	\$26.66	\$10.33	\$0.00	\$1.76	\$0.00	\$38.75
3	55.00	\$32.58	\$10.33	\$0.00	\$3.52	\$0.00	\$46.43
4	55.00	\$32.58	\$10.33	\$0.00	\$3.52	\$0.00	\$46.43
5	70.00	\$41.47	\$10.33	\$11.47	\$5.28	\$0.00	\$68.55
6	70.00	\$41.47	\$10.33	\$11.47	\$5.28	\$0.00	\$68.55
7	80.00	\$47.39	\$10.33	\$11.47	\$7.04	\$0.00	\$76.23
8	80.00	\$47.39	\$10.33	\$11.47	\$7.04	\$0.00	\$76.23
Apprentice: FLOORCOVERER							
Effective Date: 9/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$27.33	\$10.33	\$0.00	\$1.76	\$0.00	\$39.42
2	45.00	\$27.33	\$10.33	\$0.00	\$1.76	\$0.00	\$39.42
3	55.00	\$33.41	\$10.33	\$0.00	\$3.52	\$0.00	\$47.26
4	55.00	\$33.41	\$10.33	\$0.00	\$3.52	\$0.00	\$47.26
5	70.00	\$42.52	\$10.33	\$11.47	\$5.28	\$0.00	\$69.60
6	70.00	\$42.52	\$10.33	\$11.47	\$5.28	\$0.00	\$69.60
7	80.00	\$48.59	\$10.33	\$11.47	\$7.04	\$0.00	\$77.43
8	80.00	\$48.59	\$10.33	\$11.47	\$7.04	\$0.00	\$77.43
Apprentice Notes							
Steps are 750 hrs.							
Apprentice to Journeyworker Ratio: 1:1							
FORK LIFT/CHERRY PICKER	6/1/2026	\$59.38	\$17.05	\$13.35	\$3.25	\$0.00	\$93.03
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.83	\$17.05	\$13.35	\$3.25	\$0.00	\$94.48
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
GENERATOR/LIGHTING PLANT/HEATERS	6/1/2026	\$37.63	\$17.05	\$13.35	\$3.25	\$0.00	\$71.28
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$38.58	\$17.05	\$13.35	\$3.25	\$0.00	\$72.23
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)	1/1/2026	\$54.85	\$10.35	\$12.00	\$12.60	\$0.00	\$89.80
GLAZIERS LOCAL 35							
GLAZIERS LOCAL 35 (ZONE 1)							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 17 SHEETMETAL WORKERS LOCAL 17 - A	2/1/2026	\$62.93	\$14.91	\$18.74	\$9.53	\$2.98	\$109.09
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 103 ELECTRICIANS LOCAL 103	3/1/2026	\$66.86	\$13.00	\$14.64	\$9.00	\$0.00	\$103.50
	9/1/2026	\$68.78	\$13.00	\$14.69	\$9.00	\$0.00	\$105.47
	3/1/2027	\$69.97	\$13.00	\$14.73	\$9.00	\$0.00	\$106.70
	9/1/2027	\$71.88	\$13.00	\$14.79	\$9.00	\$0.00	\$108.67
	3/1/2028	\$73.08	\$13.00	\$14.82	\$9.00	\$0.00	\$109.90
For apprentice rates see "Apprentice- ELECTRICIAN"							
HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 17 SHEETMETAL WORKERS LOCAL 17 - A	2/1/2026	\$62.93	\$14.91	\$18.74	\$9.53	\$2.98	\$109.09
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (TESTING AND BALANCING -WATER) PIPEFITTERS LOCAL 537 PIPEFITTERS LOCAL 537	3/1/2026	\$70.58	\$13.95	\$14.00	\$9.55	\$0.00	\$108.08
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HVAC MECHANIC PIPEFITTERS LOCAL 537 PIPEFITTERS LOCAL 537	3/1/2026	\$70.58	\$13.95	\$14.00	\$9.55	\$0.00	\$108.08
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HYDRAULIC DRILLS LABORERS LABORERS - ZONE 1	6/1/2026	\$49.15	\$10.90	\$9.75	\$9.65	\$0.00	\$79.45
	12/1/2026	\$51.40	\$10.90	\$9.75	\$9.65	\$0.00	\$81.70
	6/1/2027	\$53.00	\$10.90	\$9.75	\$9.65	\$0.00	\$83.30
	12/1/2027	\$54.60	\$10.90	\$9.75	\$9.65	\$0.00	\$84.90
	6/1/2028	\$56.28	\$10.90	\$9.75	\$9.65	\$0.00	\$86.58
	12/1/2028	\$57.95	\$10.90	\$9.75	\$9.65	\$0.00	\$88.25
For apprentice rates see "Apprentice- LABORER"							
HYDRAULIC DRILLS (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 1 (HEAVY & HIGHWAY)	6/1/2026	\$50.00	\$10.90	\$9.75	\$9.65	\$0.00	\$80.30
	12/1/2026	\$51.50	\$10.90	\$9.75	\$9.65	\$0.00	\$81.80
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (BOSTON)	9/1/2025	\$60.34	\$14.75	\$9.52	\$10.09	\$0.00	\$94.70
	9/1/2026	\$63.76	\$14.75	\$9.52	\$10.09	\$0.00	\$98.12

Apprentice: INSULATOR (PIPES & TANKS)							
Effective Date: 9/1/2025							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$30.17	\$14.75	\$9.27	\$5.05	\$0.00	\$59.24
2	60.00	\$36.20	\$14.75	\$9.32	\$6.05	\$0.00	\$66.32
3	70.00	\$42.24	\$14.75	\$9.37	\$7.06	\$0.00	\$73.42

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS	12/1/2026	\$50.65	\$10.90	\$9.75	\$9.65	\$0.00	\$80.95
LABORERS - ZONE 1	6/1/2027	\$52.25	\$10.90	\$9.75	\$9.65	\$0.00	\$82.55
	12/1/2027	\$53.85	\$10.90	\$9.75	\$9.65	\$0.00	\$84.15
	6/1/2028	\$55.53	\$10.90	\$9.75	\$9.65	\$0.00	\$85.83
	12/1/2028	\$57.20	\$10.90	\$9.75	\$9.65	\$0.00	\$87.50

For apprentice rates see "Apprentice- LABORER"

LABORER: CEMENT FINISHER TENDER	6/1/2026	\$49.15	\$10.90	\$9.75	\$9.65	\$0.00	\$79.45
LABORERS	12/1/2026	\$50.65	\$10.90	\$9.75	\$9.65	\$0.00	\$80.95
LABORERS - ZONE 1	6/1/2027	\$52.25	\$10.90	\$9.75	\$9.65	\$0.00	\$82.55
	12/1/2027	\$53.85	\$10.90	\$9.75	\$9.65	\$0.00	\$84.15
	6/1/2028	\$55.53	\$10.90	\$9.75	\$9.65	\$0.00	\$85.83
	12/1/2028	\$57.20	\$10.90	\$9.75	\$9.65	\$0.00	\$87.50

For apprentice rates see "Apprentice- LABORER"

LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER	6/1/2026	\$49.30	\$10.90	\$9.75	\$9.65	\$0.00	\$79.60
LABORERS	12/7/2026	\$50.80	\$10.90	\$9.75	\$9.65	\$0.00	\$81.10
LABORERS - ZONE 1	6/7/2027	\$52.40	\$10.90	\$9.75	\$9.65	\$0.00	\$82.70
	12/6/2027	\$54.00	\$10.90	\$9.75	\$9.65	\$0.00	\$84.30
	6/5/2028	\$55.68	\$10.90	\$9.75	\$9.65	\$0.00	\$85.98
	12/4/2028	\$57.35	\$10.90	\$9.75	\$9.65	\$0.00	\$87.65

For apprentice rates see "Apprentice- LABORER"

LABORER: MASON TENDER	6/1/2026	\$49.40	\$10.90	\$9.75	\$9.65	\$0.00	\$79.70
LABORERS	12/1/2026	\$50.90	\$10.90	\$9.75	\$9.65	\$0.00	\$81.20
LABORERS - ZONE 1	6/1/2027	\$52.50	\$10.90	\$9.75	\$9.65	\$0.00	\$82.80
	12/1/2027	\$54.10	\$10.90	\$9.75	\$9.65	\$0.00	\$84.40
	6/1/2028	\$55.78	\$10.90	\$9.75	\$9.65	\$0.00	\$86.08
	12/1/2028	\$57.45	\$10.90	\$9.75	\$9.65	\$0.00	\$87.75

For apprentice rates see "Apprentice- LABORER"

LABORER: MASON TENDER (HEAVY & HIGHWAY)	6/1/2026	\$49.50	\$10.90	\$9.75	\$9.65	\$0.00	\$79.80
LABORERS	12/1/2026	\$51.00	\$10.90	\$9.75	\$9.65	\$0.00	\$81.30
LABORERS - ZONE 1 (HEAVY & HIGHWAY)							

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

LABORER: MULTI-TRADE TENDER	6/1/2026	\$49.15	\$10.90	\$9.75	\$9.65	\$0.00	\$79.45
LABORERS	12/1/2026	\$50.65	\$10.90	\$9.75	\$9.65	\$0.00	\$80.95
LABORERS - ZONE 1	6/1/2027	\$52.25	\$10.90	\$9.75	\$9.65	\$0.00	\$82.55
	12/1/2027	\$53.85	\$10.90	\$9.75	\$9.65	\$0.00	\$84.15
	6/1/2028	\$55.53	\$10.90	\$9.75	\$9.65	\$0.00	\$85.83
	12/1/2028	\$57.20	\$10.90	\$9.75	\$9.65	\$0.00	\$87.50

For apprentice rates see "Apprentice- LABORER"

LABORER: TREE REMOVER	6/1/2026	\$49.15	\$10.90	\$9.75	\$9.65	\$0.00	\$79.45
LABORERS	12/1/2026	\$50.65	\$10.90	\$9.75	\$9.65	\$0.00	\$80.95
LABORERS - ZONE 1	6/1/2027	\$52.25	\$10.90	\$9.75	\$9.65	\$0.00	\$82.55
	12/1/2027	\$53.85	\$10.90	\$9.75	\$9.65	\$0.00	\$84.15
	6/1/2028	\$55.53	\$10.90	\$9.75	\$9.65	\$0.00	\$85.83
	12/1/2028	\$57.20	\$10.90	\$9.75	\$9.65	\$0.00	\$87.50

This classification applies to the removal of standing trees, and the trimming and removal of branches and limbs when related to public works construction or site clearance

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
incidental to construction . For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR	6/1/2026	\$49.40	\$10.90	\$9.75	\$9.65	\$0.00	\$79.70
LABORERS	12/1/2026	\$50.90	\$10.90	\$9.75	\$9.65	\$0.00	\$81.20
LABORERS - ZONE 1	6/1/2027	\$52.50	\$10.90	\$9.75	\$9.65	\$0.00	\$82.80
	12/1/2027	\$54.10	\$10.90	\$9.75	\$9.65	\$0.00	\$84.40
	6/1/2028	\$55.78	\$10.90	\$9.75	\$9.65	\$0.00	\$86.08
	12/1/2028	\$57.45	\$10.90	\$9.75	\$9.65	\$0.00	\$87.75

For apprentice rates see "Apprentice- LABORER"

LASER BEAM OPERATOR (HEAVY & HIGHWAY)	6/1/2026	\$49.50	\$10.90	\$9.75	\$9.65	\$0.00	\$79.80
LABORERS	12/1/2026	\$51.00	\$10.90	\$9.75	\$9.65	\$0.00	\$81.30
LABORERS - ZONE 1 (HEAVY & HIGHWAY)							

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

MARBLE & TILE FINISHERS	2/1/2026	\$52.08	\$12.84	\$15.57	\$5.78	\$0.00	\$86.27
BRICKLAYERS LOCAL 3	8/1/2026	\$53.84	\$12.84	\$15.57	\$5.78	\$0.00	\$88.03
BRICKLAYERS LOCAL 3 - MARBLE & TILE	2/1/2027	\$54.96	\$12.84	\$15.57	\$5.78	\$0.00	\$89.15

Apprentice: MARBLE & TILE FINISHERS							
Effective Date: 2/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$26.04	\$12.84	\$15.57	\$5.78	\$0.00	\$60.23
2	60.00	\$31.25	\$12.84	\$15.57	\$5.78	\$0.00	\$65.44
3	70.00	\$36.46	\$12.84	\$15.57	\$5.78	\$0.00	\$70.65
4	80.00	\$41.66	\$12.84	\$15.57	\$5.78	\$0.00	\$75.85
5	90.00	\$46.87	\$12.84	\$15.57	\$5.78	\$0.00	\$81.06

Apprentice: MARBLE & TILE FINISHERS							
Effective Date: 8/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$26.92	\$12.84	\$15.57	\$5.78	\$0.00	\$61.11
2	60.00	\$32.30	\$12.84	\$15.57	\$5.78	\$0.00	\$66.49
3	70.00	\$37.69	\$12.84	\$15.57	\$5.78	\$0.00	\$71.88
4	80.00	\$43.07	\$12.84	\$15.57	\$5.78	\$0.00	\$77.26
5	90.00	\$48.46	\$12.84	\$15.57	\$5.78	\$0.00	\$82.65

Apprentice to Journeyworker Ratio: 1:5

MARBLE MASONS,TILELAYERS & TERRAZZO MECH	2/1/2026	\$67.97	\$12.84	\$15.57	\$7.99	\$0.00	\$104.37
BRICKLAYERS LOCAL 3	8/1/2026	\$70.17	\$12.84	\$15.57	\$7.99	\$0.00	\$106.57
BRICKLAYERS LOCAL 3 - MARBLE & TILE	2/1/2027	\$71.57	\$12.84	\$15.57	\$7.99	\$0.00	\$107.97

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
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Apprentice Notes
 Step 1&2 Appr. indentured after 1/6/2020 receive no pension,

Apprentice to Journeyworker Ratio: 1:4

MORTAR MIXER LABORERS	6/1/2026	\$49.40	\$10.90	\$9.75	\$9.65	\$0.00	\$79.70
LABORERS - ZONE 1	12/1/2026	\$50.90	\$10.90	\$9.75	\$9.65	\$0.00	\$81.20
	6/1/2027	\$52.50	\$10.90	\$9.75	\$9.65	\$0.00	\$82.80
	12/1/2027	\$54.10	\$10.90	\$9.75	\$9.65	\$0.00	\$84.40
	6/1/2028	\$55.78	\$10.90	\$9.75	\$9.65	\$0.00	\$86.08
	12/1/2028	\$57.45	\$10.90	\$9.75	\$9.65	\$0.00	\$87.75

For apprentice rates see "Apprentice- LABORER"

OILER (OTHER THAN TRUCK CRANES,GRADALLS)	6/1/2026	\$25.07	\$17.05	\$13.35	\$3.25	\$0.00	\$58.72
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$25.74	\$17.05	\$13.35	\$3.25	\$0.00	\$59.39

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OILER (TRUCK CRANES, GRADALLS)	6/1/2026	\$31.17	\$17.05	\$13.35	\$3.25	\$0.00	\$64.82
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$31.97	\$17.05	\$13.35	\$3.25	\$0.00	\$65.62

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OTHER POWER DRIVEN EQUIPMENT - CLASS II	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PAINTER (BRIDGES/TANKS)	1/1/2026	\$59.56	\$10.35	\$12.00	\$12.60	\$0.00	\$94.51
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 1							

Apprentice: PAINTER (BRIDGES/TANKS)
Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$29.78	\$10.35	\$0.00	\$0.00	\$0.00	\$40.13
2	55.00	\$32.76	\$10.35	\$0.00	\$6.93	\$0.00	\$50.04
3	60.00	\$35.74	\$10.35	\$0.00	\$7.56	\$0.00	\$53.65
4	65.00	\$38.71	\$10.35	\$0.00	\$8.19	\$0.00	\$57.25
5	70.00	\$41.69	\$10.35	\$12.00	\$8.82	\$0.00	\$72.86
6	75.00	\$44.67	\$10.35	\$12.00	\$9.45	\$0.00	\$76.47
7	80.00	\$47.65	\$10.35	\$12.00	\$10.08	\$0.00	\$80.08
8	90.00	\$53.60	\$10.35	\$12.00	\$11.34	\$0.00	\$87.29

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, NEW) *	1/1/2026	\$56.25	\$10.35	\$12.00	\$12.60	\$0.00	\$91.20
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* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used.
 PAINTERS LOCAL 35

Construction

Classification **Effective Date** **Base Wage** **Health** **Pension** **Annuity** **Supplemental Unemployment** **Total Rate**
 PAINTERS LOCAL 35 - ZONE 1

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$28.13	\$10.35	\$0.00	\$0.00	\$0.00	\$38.48
2	55.00	\$30.94	\$10.35	\$0.00	\$6.93	\$0.00	\$48.22
3	60.00	\$33.75	\$10.35	\$0.00	\$7.56	\$0.00	\$51.66
4	65.00	\$36.56	\$10.35	\$0.00	\$8.19	\$0.00	\$55.10
5	70.00	\$39.38	\$10.35	\$12.00	\$8.92	\$0.00	\$70.65
6	75.00	\$42.19	\$10.35	\$12.00	\$9.45	\$0.00	\$73.99
7	80.00	\$45.00	\$10.35	\$12.00	\$10.08	\$0.00	\$77.43
8	90.00	\$50.63	\$10.35	\$12.00	\$11.34	\$0.00	\$84.32

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT)	1/1/2026	\$54.31	\$10.35	\$12.00	\$12.60	\$0.00	\$89.26
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PAINTERS LOCAL 35
 PAINTERS LOCAL 35 - ZONE 1

Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$27.16	\$10.35	\$0.00	\$0.00	\$0.00	\$37.51
2	55.00	\$29.87	\$10.35	\$0.00	\$6.93	\$0.00	\$47.15
3	60.00	\$32.59	\$10.35	\$0.00	\$7.56	\$0.00	\$50.50
4	65.00	\$35.30	\$10.35	\$0.00	\$8.19	\$0.00	\$53.84
5	70.00	\$38.02	\$10.35	\$12.00	\$8.82	\$0.00	\$69.19
6	75.00	\$40.73	\$10.35	\$12.00	\$9.45	\$0.00	\$72.53
7	80.00	\$43.45	\$10.35	\$12.00	\$10.08	\$0.00	\$75.88
8	90.00	\$48.88	\$10.35	\$12.00	\$11.34	\$0.00	\$82.57

Apprentice to Journeyworker Ratio: 1:1

PAINTER / TAPER (BRUSH, NEW) *	1/1/2026	\$54.85	\$10.35	\$12.00	\$12.60	\$0.00	\$89.80
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* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used.
 PAINTERS LOCAL 35
 PAINTERS LOCAL 35 - ZONE 1

Apprentice: PAINTER / TAPER (BRUSH, NEW) *							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$27.43	\$10.35	\$0.00	\$0.00	\$0.00	\$37.78
2	55.00	\$30.17	\$10.35	\$0.00	\$6.93	\$0.00	\$47.45

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PAINTER / TAPER (BRUSH, NEW) *							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
3	60.00	\$32.91	\$10.35	\$0.00	\$7.56	\$0.00	\$50.82
4	65.00	\$35.65	\$10.35	\$0.00	\$8.19	\$0.00	\$54.19
5	70.00	\$38.40	\$10.35	\$12.00	\$8.82	\$0.00	\$69.57
6	75.00	\$41.14	\$10.35	\$12.00	\$9.45	\$0.00	\$72.94
7	80.00	\$43.88	\$10.35	\$12.00	\$10.08	\$0.00	\$76.31
8	90.00	\$49.37	\$10.35	\$12.00	\$11.34	\$0.00	\$83.06
Apprentice to Journeyworker Ratio: 1:1							

PAINTER / TAPER (BRUSH, REPAINT)	1/1/2026	\$52.91	\$10.35	\$12.00	\$12.60	\$0.00	\$87.86
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 1							

Apprentice: PAINTER / TAPER (BRUSH, REPAINT)							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$26.46	\$10.35	\$0.00	\$0.00	\$0.00	\$36.81
2	55.00	\$29.10	\$10.35	\$0.00	\$6.93	\$0.00	\$46.38
3	60.00	\$31.75	\$10.35	\$0.00	\$7.56	\$0.00	\$49.66
4	65.00	\$34.39	\$10.35	\$0.00	\$8.19	\$0.00	\$52.93
5	70.00	\$37.04	\$10.35	\$12.00	\$8.82	\$0.00	\$68.21
6	75.00	\$39.68	\$10.35	\$12.00	\$9.45	\$0.00	\$71.48
7	80.00	\$42.33	\$10.35	\$12.00	\$10.08	\$0.00	\$74.76
8	90.00	\$47.62	\$10.35	\$12.00	\$11.34	\$0.00	\$81.31

Apprentice to Journeyworker Ratio: 1:1

PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	6/1/2026	\$49.25	\$10.90	\$9.75	\$9.65	\$0.00	\$79.55
LABORERS							
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	12/1/2026	\$50.75	\$10.90	\$9.75	\$9.65	\$0.00	\$81.05
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							

PANEL & PICKUP TRUCKS DRIVER	6/1/2026	\$42.88	\$15.41	\$21.78	\$0.00	\$0.00	\$80.07
TEAMSTERS JOINT COUNCIL NO. 10	8/1/2026	\$42.88	\$15.91	\$21.78	\$0.00	\$0.00	\$80.57
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/1/2026	\$42.88	\$15.91	\$23.52	\$0.00	\$0.00	\$82.31

PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)	8/1/2024	\$55.79	\$10.08	\$11.62	\$12.67	\$0.00	\$90.16
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 1)							
For apprentice rates see "Apprentice- PILE DRIVER"							

PILE DRIVER	8/1/2024	\$55.79	\$10.08	\$11.62	\$12.67	\$0.00	\$90.16
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 1)							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PILE DRIVER							
Effective Date: 8/1/2024							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$25.11	\$10.08	\$0.00	\$2.53	\$0.00	\$37.72
2	55.00	\$30.68	\$10.08	\$0.00	\$5.07	\$0.00	\$45.83
3	70.00	\$39.05	\$10.08	\$11.62	\$7.60	\$0.00	\$68.35
4	80.00	\$44.63	\$10.08	\$11.62	\$10.14	\$0.00	\$76.47
Apprentice to Journeyworker Ratio: 1:5							
PIPEFITTER & STEAMFITTER PIPEFITTERS LOCAL 537 PIPEFITTERS LOCAL 537	3/1/2026	\$70.58	\$13.95	\$14.00	\$9.55	\$0.00	\$108.08
Apprentice: PIPEFITTER & STEAMFITTER							
Effective Date: 3/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$28.23	\$13.95	\$0.30	\$9.55	\$0.00	\$52.03
2	45.00	\$31.76	\$13.95	\$14.00	\$9.55	\$0.00	\$69.26
3	60.00	\$42.35	\$13.95	\$14.00	\$9.55	\$0.00	\$79.85
4	70.00	\$49.41	\$13.95	\$14.00	\$9.55	\$0.00	\$86.91
5	80.00	\$56.46	\$13.95	\$14.00	\$9.55	\$0.00	\$93.96
Apprentice to Journeyworker Ratio: 1:3							
PIPELAYER LABORERS LABORERS - ZONE 1	6/1/2026	\$49.40	\$10.90	\$9.75	\$9.65	\$0.00	\$79.70
	12/1/2026	\$50.90	\$10.90	\$9.75	\$9.65	\$0.00	\$81.20
	6/1/2027	\$52.50	\$10.90	\$9.75	\$9.65	\$0.00	\$82.80
	12/1/2027	\$54.10	\$10.90	\$9.75	\$9.65	\$0.00	\$84.40
	6/1/2028	\$55.78	\$10.90	\$9.75	\$9.65	\$0.00	\$86.08
	12/1/2028	\$57.45	\$10.90	\$9.75	\$9.65	\$0.00	\$87.75
For apprentice rates see "Apprentice- LABORER"							
PIPELAYER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 1 (HEAVY & HIGHWAY)	6/1/2026	\$49.50	\$10.90	\$9.75	\$9.65	\$0.00	\$79.80
	12/1/2026	\$51.00	\$10.90	\$9.75	\$9.65	\$0.00	\$81.30
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PLUMBERS & GASFITTERS PLUMBERS & GASFITTERS LOCAL 12 PLUMBERS & GASFITTERS LOCAL 12	3/2/2026	\$72.64	\$15.32	\$12.61	\$8.00	\$0.00	\$108.57
	8/31/2026	\$74.79	\$15.32	\$12.61	\$8.00	\$0.00	\$110.72
	3/1/2027	\$76.94	\$15.32	\$12.61	\$8.00	\$0.00	\$112.87
	8/30/2027	\$79.09	\$15.32	\$12.61	\$8.00	\$0.00	\$115.02
	2/28/2028	\$81.29	\$15.32	\$12.61	\$8.00	\$0.00	\$117.22
	9/4/2028	\$83.49	\$15.32	\$12.61	\$8.00	\$0.00	\$119.42
	3/5/2029	\$85.69	\$15.32	\$12.61	\$8.00	\$0.00	\$121.62
	9/3/2029	\$87.89	\$15.32	\$12.61	\$8.00	\$0.00	\$123.82
	3/4/2030	\$89.84	\$15.32	\$12.61	\$8.00	\$0.00	\$125.77

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PLUMBERS & GASFITTERS							
Effective Date: 3/2/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	35.00	\$25.42	\$15.32	\$4.61	\$2.80	\$0.00	\$48.15
2	40.00	\$29.06	\$15.32	\$5.22	\$3.20	\$0.00	\$52.80
3	55.00	\$39.95	\$15.32	\$7.07	\$4.40	\$0.00	\$66.74
4	65.00	\$47.22	\$15.32	\$8.30	\$5.20	\$0.00	\$76.04
5	75.00	\$54.48	\$15.32	\$9.53	\$6.00	\$0.00	\$85.33
Apprentice: PLUMBERS & GASFITTERS							
Effective Date: 8/31/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	35.00	\$26.18	\$15.32	\$4.61	\$2.80	\$0.00	\$48.91
2	40.00	\$29.92	\$15.32	\$5.22	\$3.20	\$0.00	\$53.66
3	55.00	\$41.13	\$15.32	\$7.07	\$5.20	\$0.00	\$68.72
4	65.00	\$48.61	\$15.32	\$8.30	\$5.20	\$0.00	\$77.43
5	75.00	\$56.09	\$15.32	\$9.53	\$6.00	\$0.00	\$86.94
Apprentice to Journeyworker Ratio: 1:2							
PNEUMATIC CONTROLS (TEMP.)	3/1/2026	\$70.58	\$13.95	\$14.00	\$9.55	\$0.00	\$108.08
PIPEFITTERS LOCAL 537							
PIPEFITTERS LOCAL 537							
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
PNEUMATIC DRILL/TOOL OPERATOR	6/1/2026	\$49.40	\$10.90	\$9.75	\$9.65	\$0.00	\$79.70
LABORERS	12/1/2026	\$50.90	\$10.90	\$9.75	\$9.65	\$0.00	\$81.20
LABORERS - ZONE 1	6/1/2027	\$52.50	\$10.90	\$9.75	\$9.65	\$0.00	\$82.80
	12/1/2027	\$54.10	\$10.90	\$9.75	\$9.65	\$0.00	\$84.40
	6/1/2028	\$55.78	\$10.90	\$9.75	\$9.65	\$0.00	\$86.08
	12/1/2028	\$57.45	\$10.90	\$9.75	\$9.65	\$0.00	\$87.75
For apprentice rates see "Apprentice- LABORER"							
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY)	6/1/2026	\$49.50	\$10.90	\$9.75	\$9.65	\$0.00	\$79.80
LABORERS	12/1/2026	\$51.00	\$10.90	\$9.75	\$9.65	\$0.00	\$81.30
LABORERS - ZONE 1 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
POWDERMAN & BLASTER	6/1/2026	\$50.15	\$10.90	\$9.75	\$9.65	\$0.00	\$80.45
LABORERS	12/1/2026	\$51.65	\$10.90	\$9.75	\$9.65	\$0.00	\$81.95
LABORERS - ZONE 1	6/1/2027	\$53.25	\$10.90	\$9.75	\$9.65	\$0.00	\$83.55
	12/1/2027	\$54.85	\$10.90	\$9.75	\$9.65	\$0.00	\$85.15
	6/1/2028	\$56.53	\$10.90	\$9.75	\$9.65	\$0.00	\$86.83
	12/1/2028	\$58.20	\$10.90	\$9.75	\$9.65	\$0.00	\$88.50
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
POWDERMAN & BLASTER (HEAVY & HIGHWAY) LABORERS	6/1/2026	\$50.25	\$10.90	\$9.75	\$9.65	\$0.00	\$80.55
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	12/1/2026	\$51.75	\$10.90	\$9.75	\$9.65	\$0.00	\$82.05
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
POWER SHOVEL/DERRICK/TRENCHING MACHINE OPERATING ENGINEERS LOCAL 4	6/1/2026	\$59.38	\$17.05	\$13.35	\$3.25	\$0.00	\$93.03
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.83	\$17.05	\$13.35	\$3.25	\$0.00	\$94.48
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (CONCRETE) OPERATING ENGINEERS LOCAL 4	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (DEWATERING, OTHER) OPERATING ENGINEERS LOCAL 4	6/1/2026	\$37.63	\$17.05	\$13.35	\$3.25	\$0.00	\$71.28
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$38.58	\$17.05	\$13.35	\$3.25	\$0.00	\$72.23
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
READY MIX CONCRETE DRIVERS after 4/30/12 (Drivers Hired After 4/30/2012) TEAMSTERS 25 (Metro) - Aggregate TEAMSTERS 25 (Metro) - Aggregate	8/1/2022	\$30.40	\$11.91	\$15.25	\$0.00	\$0.00	\$57.56
READY-MIX CONCRETE DRIVER TEAMSTERS 25 (Metro) - Aggregate TEAMSTERS 25 (Metro) - Aggregate	8/1/2022	\$34.41	\$11.91	\$15.25	\$0.00	\$0.00	\$61.57
RECLAIMERS OPERATING ENGINEERS LOCAL 4	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
RIDE-ON MOTORIZED BUGGY OPERATOR LABORERS	6/1/2026	\$49.40	\$10.90	\$9.75	\$9.65	\$0.00	\$79.70
LABORERS - ZONE 1	12/1/2026	\$50.90	\$10.90	\$9.75	\$9.65	\$0.00	\$81.20
	6/1/2027	\$52.50	\$10.90	\$9.75	\$9.65	\$0.00	\$82.80
	12/1/2027	\$54.10	\$10.90	\$9.75	\$9.65	\$0.00	\$84.40
	6/1/2028	\$55.78	\$10.90	\$9.75	\$9.65	\$0.00	\$86.08
	12/1/2028	\$57.45	\$10.90	\$9.75	\$9.65	\$0.00	\$87.75
For apprentice rates see "Apprentice- LABORER"							
ROLLER/SPREADER/MULCHING MACHINE OPERATING ENGINEERS LOCAL 4	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
ROOFER (Inc.Roofer Waterproofing &Roofer Damproofg) ROOFERS LOCAL 33 ROOFERS LOCAL 33	2/1/2026	\$53.53	\$14.53	\$12.67	\$9.03	\$0.00	\$89.76

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: ROOFER (Inc.Roofer Waterproofng &Roofer Damproofg)							
Effective Date: 2/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$26.77	\$14.53	\$6.52	\$9.03	\$0.00	\$56.85
2	60.00	\$32.12	\$14.53	\$12.67	\$9.03	\$0.00	\$68.35
3	65.00	\$34.79	\$14.53	\$12.67	\$9.03	\$0.00	\$71.02
4	75.00	\$40.15	\$14.53	\$12.67	\$9.03	\$0.00	\$76.38
5	85.00	\$45.50	\$14.53	\$12.67	\$9.03	\$0.00	\$81.73
Apprentice Notes							
** 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1							
Apprentice to Journeyworker Ratio: 1:5							
ROOFER SLATE / TILE / PRECAST CONCRETE ROOFERS LOCAL 33 ROOFERS LOCAL 33	2/1/2026	\$53.78	\$14.53	\$12.67	\$9.03	\$0.00	\$90.01
For apprentice rates see "Apprentice- ROOFER"							
SHEETMETAL WORKER SHEETMETAL WORKERS LOCAL 17 SHEETMETAL WORKERS LOCAL 17 - A	2/1/2026	\$62.93	\$14.91	\$18.74	\$9.53	\$2.98	\$109.09
Apprentice: SHEETMETAL WORKER							
Effective Date: 2/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	42.00	\$26.43	\$14.91	\$6.19	\$0.00	\$0.00	\$47.53
2	42.00	\$26.43	\$14.91	\$6.19	\$0.00	\$0.00	\$47.53
3	47.00	\$29.58	\$14.91	\$10.93	\$1.25	\$1.62	\$58.29
4	47.00	\$29.58	\$14.91	\$10.93	\$1.25	\$1.62	\$58.29
5	52.00	\$32.72	\$14.91	\$11.66	\$1.50	\$1.74	\$62.53
6	52.00	\$32.72	\$14.91	\$11.66	\$1.75	\$1.75	\$62.79
7	60.00	\$37.76	\$14.91	\$12.84	\$2.00	\$1.93	\$69.44
8	65.00	\$40.90	\$14.91	\$13.58	\$2.25	\$2.04	\$73.68
9	75.00	\$47.20	\$14.91	\$15.06	\$2.75	\$2.28	\$82.20
10	85.00	\$53.49	\$14.91	\$16.53	\$2.75	\$2.49	\$90.17
Apprentice to Journeyworker Ratio: 1:4							
SPECIALIZED EARTH MOVING EQUIP < 35 TONS TEAMSTERS JOINT COUNCIL NO. 10	6/1/2026	\$43.34	\$15.41	\$21.78	\$0.00	\$0.00	\$80.53
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	8/1/2026	\$43.34	\$15.91	\$21.78	\$0.00	\$0.00	\$81.03
	12/1/2026	\$43.34	\$15.91	\$23.52	\$0.00	\$0.00	\$82.77
SPECIALIZED EARTH MOVING EQUIP > 35 TONS TEAMSTERS JOINT COUNCIL NO. 10	6/1/2026	\$43.63	\$15.41	\$21.78	\$0.00	\$0.00	\$80.82
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	8/1/2026	\$43.63	\$15.91	\$21.78	\$0.00	\$0.00	\$81.32
	12/1/2026	\$43.63	\$15.91	\$23.52	\$0.00	\$0.00	\$83.06

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
SPRINKLER FITTER	1/1/2026	\$72.05	\$13.45	\$7.45	\$18.25	\$0.00	\$111.20
SPRINKLER FITTERS LOCAL 550							
SPRINKLER FITTERS LOCAL 550 - (Section A) Zone 1							

Apprentice: SPRINKLER FITTER							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	35.00	\$25.22	\$13.45	\$13.84	\$0.00	\$0.00	\$52.51
2	40.00	\$28.82	\$13.45	\$14.75	\$0.00	\$0.00	\$57.02
3	45.00	\$32.42	\$13.45	\$15.67	\$0.00	\$0.00	\$61.54
4	50.00	\$36.03	\$13.45	\$16.57	\$0.00	\$0.00	\$66.05
5	55.00	\$39.63	\$13.45	\$17.49	\$0.00	\$0.00	\$70.57
6	60.00	\$43.23	\$13.45	\$18.40	\$0.00	\$0.00	\$75.08
7	65.00	\$46.83	\$13.45	\$19.32	\$0.00	\$0.00	\$79.60
8	70.00	\$50.44	\$13.45	\$20.22	\$0.00	\$0.00	\$84.11
9	75.00	\$54.04	\$13.45	\$21.15	\$0.00	\$0.00	\$88.64
10	80.00	\$57.64	\$13.45	\$22.05	\$0.00	\$0.00	\$93.14

Apprentice Notes
 Apprentice entered prior 9/30/10:

Apprentice to Journeyworker Ratio: 1:3

STEAM BOILER OPERATOR	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
OPERATING ENGINEERS LOCAL 4							

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
OPERATING ENGINEERS LOCAL 4							

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

TELECOMMUNICATION TECHNICIAN	3/1/2026	\$53.49	\$13.00	\$14.23	\$7.20	\$0.00	\$87.92
TELECOMMUNICATION TECHNICIAN	9/1/2026	\$55.02	\$13.00	\$14.28	\$7.20	\$0.00	\$89.50
ELECTRICIANS LOCAL 103	3/1/2027	\$55.98	\$13.00	\$14.31	\$7.20	\$0.00	\$90.49
ELECTRICIANS LOCAL 103	9/1/2027	\$57.50	\$13.00	\$14.36	\$7.20	\$0.00	\$92.06
	3/1/2028	\$58.46	\$13.00	\$14.38	\$7.20	\$0.00	\$93.04

For apprentice rates and ratios see "Apprentice- ELECTRICIAN"

Apprentice: TELECOMMUNICATION TECHNICIAN							
Effective Date: 3/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$24.07	\$13.00	\$0.72	\$0.00	\$0.00	\$37.79
2	45.00	\$24.07	\$13.00	\$0.72	\$0.00	\$0.00	\$37.79
3	50.00	\$26.75	\$13.00	\$13.43	\$3.60	\$0.00	\$56.78

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: TERRAZZO FINISHERS							
Effective Date: 8/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$34.55	\$12.84	\$15.57	\$8.02	\$0.00	\$70.98
2	60.00	\$41.45	\$12.84	\$15.57	\$8.02	\$0.00	\$77.88
3	70.00	\$48.36	\$12.84	\$15.57	\$8.02	\$0.00	\$84.79
4	80.00	\$55.27	\$12.84	\$15.57	\$8.02	\$0.00	\$91.70
5	90.00	\$62.18	\$12.84	\$15.57	\$8.02	\$0.00	\$98.61
Apprentice to Journeyworker Ratio: 1:5							
TEST BORING DRILLER LABORERS	6/1/2026	\$53.25	\$10.90	\$9.75	\$9.80	\$0.00	\$83.70
LABORERS - FOUNDATION AND MARINE	12/1/2026	\$54.75	\$10.90	\$9.75	\$9.80	\$0.00	\$85.20
For apprentice rates see "Apprentice- LABORER"							
TEST BORING DRILLER HELPER LABORERS	6/1/2026	\$49.37	\$10.90	\$9.75	\$9.80	\$0.00	\$79.82
LABORERS - FOUNDATION AND MARINE	12/1/2026	\$50.87	\$10.90	\$9.75	\$9.80	\$0.00	\$81.32
For apprentice rates see "Apprentice- LABORER"							
TEST BORING LABORER LABORERS	6/1/2026	\$49.25	\$10.90	\$9.75	\$9.80	\$0.00	\$79.70
LABORERS - FOUNDATION AND MARINE	12/1/2026	\$50.75	\$10.90	\$9.75	\$9.80	\$0.00	\$81.20
For apprentice rates see "Apprentice- LABORER"							
TRACTORS/PORTABLE STEAM GENERATORS OPERATING ENGINEERS LOCAL 4	6/1/2026	\$58.70	\$17.05	\$13.35	\$3.25	\$0.00	\$92.35
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.14	\$17.05	\$13.35	\$3.25	\$0.00	\$93.79
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
TRAILERS FOR EARTH MOVING EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10	6/1/2026	\$43.92	\$15.41	\$21.78	\$0.00	\$0.00	\$81.11
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	8/1/2026	\$43.92	\$15.91	\$21.78	\$0.00	\$0.00	\$81.61
	12/1/2026	\$43.92	\$15.91	\$23.52	\$0.00	\$0.00	\$83.35
TUNNEL WORK - COMPRESSED AIR LABORERS	6/1/2026	\$61.48	\$10.90	\$9.75	\$10.25	\$0.00	\$92.38
LABORERS (COMPRESSED AIR)	12/1/2026	\$62.98	\$10.90	\$9.75	\$10.25	\$0.00	\$93.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) LABORERS	6/1/2026	\$63.48	\$10.90	\$9.75	\$10.25	\$0.00	\$94.38
LABORERS (COMPRESSED AIR)	12/1/2026	\$64.98	\$10.90	\$9.75	\$10.25	\$0.00	\$95.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR LABORERS	6/1/2026	\$53.55	\$10.90	\$9.75	\$10.25	\$0.00	\$84.45
LABORERS (FREE AIR TUNNEL)	12/1/2026	\$55.05	\$10.90	\$9.75	\$10.25	\$0.00	\$85.95
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
TUNNEL WORK - FREE AIR (HAZ. WASTE) LABORERS	6/1/2026	\$55.55	\$10.90	\$9.75	\$10.25	\$0.00	\$86.45
LABORERS (FREE AIR TUNNEL)	12/1/2026	\$57.05	\$10.90	\$9.75	\$10.25	\$0.00	\$87.95
For apprentice rates see "Apprentice- LABORER"							
VAC-HAUL	6/1/2026	\$43.34	\$15.41	\$21.78	\$0.00	\$0.00	\$80.53
TEAMSTERS JOINT COUNCIL NO. 10	8/1/2026	\$43.34	\$15.91	\$21.78	\$0.00	\$0.00	\$81.03
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/1/2026	\$43.34	\$15.91	\$23.52	\$0.00	\$0.00	\$82.77
WAGON DRILL OPERATOR LABORERS	6/1/2026	\$49.40	\$10.90	\$9.75	\$9.65	\$0.00	\$79.70
LABORERS - ZONE 1	12/1/2026	\$50.90	\$10.90	\$9.75	\$9.65	\$0.00	\$81.20
	6/1/2027	\$52.50	\$10.90	\$9.75	\$9.65	\$0.00	\$82.80
	12/1/2027	\$54.10	\$10.90	\$9.75	\$9.65	\$0.00	\$84.40
	6/1/2028	\$55.78	\$10.90	\$9.75	\$9.65	\$0.00	\$86.08
	12/1/2028	\$57.45	\$10.90	\$9.75	\$9.65	\$0.00	\$87.75
For apprentice rates see "Apprentice- LABORER"							
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) LABORERS	6/1/2026	\$49.50	\$10.90	\$9.75	\$9.65	\$0.00	\$79.80
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	12/1/2026	\$51.00	\$10.90	\$9.75	\$9.65	\$0.00	\$81.30
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
WASTE WATER PUMP OPERATOR	6/1/2026	\$59.38	\$17.05	\$13.35	\$3.25	\$0.00	\$93.03
OPERATING ENGINEERS LOCAL 4	12/1/2026	\$60.83	\$17.05	\$13.35	\$3.25	\$0.00	\$94.48
OPERATING ENGINEERS LOCAL 4							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
WATER METER INSTALLER	3/2/2026	\$72.64	\$15.32	\$12.61	\$8.00	\$0.00	\$108.57
PLUMBERS & GASFITTERS LOCAL 12	8/31/2026	\$74.79	\$15.32	\$12.61	\$8.00	\$0.00	\$110.72
PLUMBERS & GASFITTERS LOCAL 12	3/1/2027	\$76.94	\$15.32	\$12.61	\$8.00	\$0.00	\$112.87
	8/30/2027	\$79.09	\$15.32	\$12.61	\$8.00	\$0.00	\$115.02
	2/2/2028	\$81.29	\$15.32	\$12.61	\$8.00	\$0.00	\$117.22
	9/4/2028	\$83.49	\$15.32	\$12.61	\$8.00	\$0.00	\$119.42
	3/5/2029	\$85.69	\$15.32	\$12.61	\$8.00	\$0.00	\$121.62
	9/3/2029	\$87.89	\$15.32	\$12.61	\$8.00	\$0.00	\$123.82
	3/4/2030	\$89.84	\$15.32	\$12.61	\$8.00	\$0.00	\$125.77
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"							

Outside Electrical

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CABLE TECHNICIAN (Power Zone)	8/31/2025	\$36.55	\$10.75	\$1.10	\$1.00	\$0.00	\$49.40
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/30/2026	\$38.13	\$11.00	\$1.14	\$1.00	\$0.00	\$51.27
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/29/2027	\$39.65	\$11.25	\$1.19	\$1.00	\$0.00	\$53.09
For apprentice rates see "Apprentice- LINEMAN"							
CABLEMAN (Underground Ducts & Cables)	8/31/2025	\$51.78	\$10.75	\$1.55	\$10.71	\$0.00	\$74.79
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/30/2026	\$54.02	\$11.00	\$1.62	\$11.14	\$0.00	\$77.78
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/29/2027	\$56.17	\$11.25	\$1.69	\$11.57	\$0.00	\$80.68
For apprentice rates see "Apprentice- LINEMAN"							
DRIVER / GROUNDMAN CDL	8/31/2025	\$42.64	\$10.75	\$1.28	\$10.45	\$0.00	\$65.12
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/30/2026	\$44.49	\$11.00	\$1.33	\$10.80	\$0.00	\$67.62
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/29/2027	\$46.26	\$11.25	\$1.39	\$11.15	\$0.00	\$70.05
For apprentice rates see "Apprentice- LINEMAN"							
DRIVER / GROUNDMAN -Inexperienced (<2000 Hrs)	8/31/2025	\$33.51	\$10.75	\$1.01	\$1.00	\$0.00	\$46.27
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/30/2026	\$34.95	\$11.00	\$1.05	\$1.00	\$0.00	\$48.00
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/29/2027	\$36.64	\$11.25	\$1.09	\$1.00	\$0.00	\$49.98
For apprentice rates see "Apprentice- LINEMAN"							
EQUIPMENT OPERATOR (Class A CDL)	8/31/2025	\$51.78	\$10.75	\$1.55	\$14.79	\$0.00	\$78.87
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/30/2026	\$54.02	\$11.00	\$1.62	\$15.22	\$0.00	\$81.86
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/29/2027	\$56.17	\$11.25	\$1.69	\$15.65	\$0.00	\$84.76
For apprentice rates see "Apprentice- LINEMAN"							
EQUIPMENT OPERATOR (Class B CDL)	8/31/2025	\$45.69	\$10.75	\$1.37	\$11.27	\$0.00	\$69.08
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/30/2026	\$47.66	\$11.00	\$1.43	\$11.65	\$0.00	\$71.74
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/29/2027	\$49.56	\$11.25	\$1.49	\$12.03	\$0.00	\$74.33
For apprentice rates see "Apprentice- LINEMAN"							
GROUNDMAN	8/31/2025	\$33.51	\$10.75	\$1.01	\$1.00	\$0.00	\$46.27
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/30/2026	\$34.95	\$11.00	\$1.05	\$1.00	\$0.00	\$48.00
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/29/2027	\$36.34	\$11.25	\$1.09	\$1.00	\$0.00	\$49.68
For apprentice rates see "Apprentice- LINEMAN"							
GROUNDMAN -Inexperienced (<2000 Hrs.)	8/31/2025	\$27.41	\$10.75	\$0.82	\$1.00	\$0.00	\$39.98
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/30/2026	\$28.60	\$11.00	\$0.86	\$1.00	\$0.00	\$41.46
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/29/2027	\$29.74	\$11.25	\$0.89	\$1.00	\$0.00	\$42.88
For apprentice rates see "Apprentice- LINEMAN"							
JOURNEYMAN LINEMAN	8/31/2025	\$60.92	\$10.75	\$1.83	\$18.00	\$0.00	\$91.50
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/30/2026	\$63.55	\$11.00	\$1.91	\$18.50	\$0.00	\$94.96
OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104	8/29/2027	\$66.08	\$11.25	\$1.98	\$19.00	\$0.00	\$98.31

Apprentice: JOURNEYMAN LINEMAN							
Effective Date: 8/31/2025							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Additional Apprentice Information

All apprentices must be registered with the Division of Apprenticeship Training(DAS) in accordance with M.G.L.c. 23, §§ 11E-11L. Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the hourly prevailing wage rate established by the Commissioner under the provisions of M.G.L.c. 149, §§ 26-27D.

Apprentice ratios are established by DAS pursuant to M.G.L.c. 23, §§ 11E-11L. Ratios are expressed as the allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified. The ratios listed herein have been taken from relevant private collective bargaining agreements(CBAs) and are provided for illustrative purposes only. They have not been independently verified as being accurate or continuing to be accurate.

Parties having questions regarding what ratio to use should contact DAS.



WAGE THEFT ORDINANCE CERTIFICATION FORM
CITY OF SOMERVILLE CODE OF ORDINANCES / 2019 / ORDINANCE NO. 2019-24 et seq.*.

Instructions: Contractors shall complete this form and sign and date where indicated below. This form will be attached to the contract or subcontract and the certifications made herein shall be incorporated as part of such contract or subcontract.

Purpose: The purpose of this form is to ensure that such vendors comply with applicable federal and state wage laws, treat their employees fairly and ensure that wage theft does not occur on their projects.

Definition of “Wage Theft”: an action by an Employer, their officers, agents or employees causing an Employer not to make a timely and/or complete payment of Wages, not to pay the Minimum Wage or Prevailing Wage, or not to pay Overtime earned and owing to an Employee.

CERTIFICATIONS

Whenever the City of Somerville is procuring construction services subject to the provisions of M.G.L. c. 149, c. 149A or c. 30, §39M, the terms of the Somerville Wage Theft Ordinance shall be incorporated into the procurement documents and made part of the specifications and contract. Any person, company or corporation shall acknowledge, in writing, receipt of said requirements with their bid or proposal and/or contract.

The undersigned bidder, proposer, contractor, subcontractor and/or trade contractor hereby acknowledges receipt of the below referenced requirements and verifies under oath that they will comply with the conditions set forth in the Somerville Wage Theft Ordinance 2019-24, which shall be incorporated into any contract entered into between the City and contractor.

The contractor shall not have been found within the past five years by a court or governmental agency in violation of any law relating to providing workers compensation insurance coverage, misclassification of employees as independent contractors, payment of employer payroll taxes, employee income tax withholding, earned sick time, wage and hour laws, prompt payment laws, or prevailing wage laws.

The contractor shall maintain appropriate industrial accident insurance sufficient to provide coverage for all the employees on the project in accordance with M.G.L. c. 152 and provide documentary proof of such coverage included with the contractor's submitted bid to the inspection services department to be maintained as a public record.

*Read entire ordinance online at:

https://library.municode.com/ma/somerville/ordinances/code_of_ordinances?nodeId=1001376 or request from the Procurement & Contracting Services Department.

Bid ref.:

Contract Number:

The contractor shall properly classify employees as employees rather than independent contractors and treat them accordingly for purposes of prevailing wages and overtime, workers compensation insurance coverage, social security taxes and state and federal income tax withholding. (M.G.L. c. 149, § 148B on employee classification).

The contractor shall comply with M.G.L. c. 151, § 1A and M.G.L. c. 149, § 148 with respect to the payment of wages.

The city contractor must make arrangements to ensure that each employee of every contractor and subcontractor of any tier entering or leaving the project individually completes the appropriate entries in a daily sign-in/out log. The sign in/out log shall include: the location of the project; current date; printed employee name; signed employee name; name of employee's employer and the time of each entry or exiting. The log shall contain a prominent notice that employees are entitled under state law to receive the prevailing wage rate for their work on the project. Such sign-in/out logs shall be provided to the city on a weekly basis with the certified payrolls and shall be a public record.

Each contractor of any tier, prior to performing any work on the project, shall sign under oath and provide to the city contractor a certification that they are not debarred or otherwise prevented from bidding for or performing work on a public project in the Commonwealth of Massachusetts or in the city.

The contractor must comply with state and, where applicable, federal prevailing wage laws. Contractor shall submit weekly certified payrolls to the City for all employees working on the contract including subcontracted workers at all tiers. Contractor shall use the current standard Massachusetts weekly certified payroll report form. Each contractor shall provide a copy of the OSHA 10 card for every employee attached to the first certified payroll they submit on which the employee appears.

Each payment requisition shall include the following certification:

I certify under oath that each payment requisition is in full compliance with all obligations forth in the Wage Theft Ordinance.

SIGNED UNDER THE PAINS AND PENALTIES OF PERJURY,

Signature: _____
(Duly Authorized Representative of Contractor)

Title: _____

Name of Contractor: _____

Date: _____

Online at: <https://www.somervillema.gov/procurement>



OSHA GENERAL CONTRACTOR CERTIFICATION FORM

**Pursuant to Chapter 306 of the Acts of 2004
An Act Relative to the Health and Safety on Construction Projects**

GENERAL CONTRACTOR'S CERTIFICATION – BID FORM

I, the undersigned, hereby certify under penalties of perjury that I, and all subcontractors who are not filed sub-bidders, shall:

(1) that I am able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work; (2) that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and (3) that all employees to be employed in the work subject to this bid have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration.

As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

Signature: _____
(Individual Submitting Bid)
Duly Authorized

Name of Business or Entity: _____

Date: _____

RETURN THIS FORM WITH YOUR BID



**SOMERVILLE ORDINANCE TO SAFEGUARD
CITY OF SOMERVILLE CODE OF ORDINANCES ARTICLE VIII, SEC. 12-117 et seq.**

VULNERABLE ROAD USERS

Prospective contractors must familiarize themselves with the City of Somerville’s Ordinance to Protect Vulnerable Road Users. The full text of this local law can be found [here](#).

1. **Request for Inspection:** Inspections are conducted on Thursdays from 4pm-7pm at the Somerville Department of Public Works, located at 1 Franey Road. Each inspection takes approximately 20 minutes.
 - a. Any vendor covered by this Ordinance shall complete an inspection request form and email it to fleetinspections@somervillema.gov.
 - b. Please submit request form no later than 3pm on the Tuesday before the requested inspection date.
2. **Fee:** The fee for the initial inspection is \$100. The fee for a renewal inspection (every two years) is \$50.
 - a. Payment of the fee is due upon scheduling of the inspection. The fee can be paid via check or credit card. Checks should be made out to the City of Somerville and include the vendor’s phone number.
3. **Approval:** Vehicles inspected and approved by the Fleet Division will have an inspection approval sticker affixed to the windshield of the vehicle. A copy of the inspection report and certificate of inspection shall be issued to the vendor.
 - a. Inspection stickers are not transferable.
 - b. Any major overhaul of safeguard equipment shall be required to be re-inspected.
4. **Rejection:** If a vehicle is rejected for failing to comply with any of the technical specifications outlined in the ordinance, it shall be corrected and henceforth re-inspected within 30 days at no additional fee.
 - a. If a second inspection results in a rejection, a fee of \$50 will be required for any subsequent inspections.
 - b. Any vendor who fails to comply within 60 days of their first inspection may be subject to having their contract cancelled.
5. **Questions:** Please direct questions about vehicle inspections to Department of Public Works, at: fleetinspections@somervillema.gov or call 617-625-6600 ext. 5100

Acknowledgement

In accordance with Sec. 12-119 “Requirements” in the Ordinance, bidders must sign the following:
Unless certified that the Ordinance is not applicable to this contract or otherwise waived by the City, I acknowledge that my company has installed (or will install prior to commencing work for the contract) side guards, cross-over mirrors or equivalent blind spot countermeasures, convex mirrors or equivalent blind spot countermeasures, side-visible turn signals, and appropriate warning signage, in accordance with SCO Chapter 12, Article VII on all large vehicles it uses or will use within the City of Somerville in connection with any contract.

Authorized Signatory’s Name Date

Company Name

I certify that the Ordinance does not apply to this contract for the following reason:

- Vehicles do not meet or exceed Class 3 GVWR
- Vehicles do not exceed 15 MPH
- No vehicles on project
- Other: _____

ORDINANCE REQUIREMENTS

LATERAL PROTECTIVE DEVICES (SIDE GUARDS)

- Vehicles must have device installed between the front & rear wheels to help prevent injuries to vulnerable road users, particularly from falling underneath the vehicle.



SIDE-VISIBLE TURN SIGNALS

- Vehicles must have at least one turn signal lamp on each side of the vehicle that is visible from any point to the left and right side along the full length of the vehicle.



CONVEX MIRRORS

- Vehicles must have mirrors which enable the driver to see anything that is three feet above the road and one foot in feet of or along side of the vehicle.



CROSS-OVER MIRRORS

- Vehicles must have mirrors that enable the driver to see anything at least three feet tall passing one foot in front of the vehicle and the area in front of the bumper where direct vision is not possible.



SAFETY DECALS

- Vehicles must have a minimum of three reflective decals on the rear and sides.
- The decals must be "safety yellow" in color and include language or images that warn of blind spots.

COMMON QUESTIONS

WHAT TYPES OF VEHICLES DOES THIS ORDINANCE APPLY TO? This ordinance applies to Class 3 or above vehicles with a gross vehicle weight rating exceeding 10,000 lbs., except for an ambulance, fire apparatus, low-speed vehicle with max speed under 15 mph, or agricultural tractors.

CAN TOOL BOXES BE USED AS SIDE GUARDS? Yes, as long as the tool box meets all of the required measurements in the ordinance.

IF I RENT TRUCKS FOR A JOB, DO THOSE VEHICLES NEED TO BE INSPECTED AND PERMITTED? Yes.

DO SUBCONTRACTORS' TRUCKS WORKING ON A CITY CONTRACT NEED TO BE INSPECTED & PERMITTED? Yes.

WILL THE CITY DO AN OFF-SITE INSPECTION FOR LARGER FLEETS? Yes, depending on the availability of inspectors and the distance to the site.

REGISTER FOR AN INSPECTION

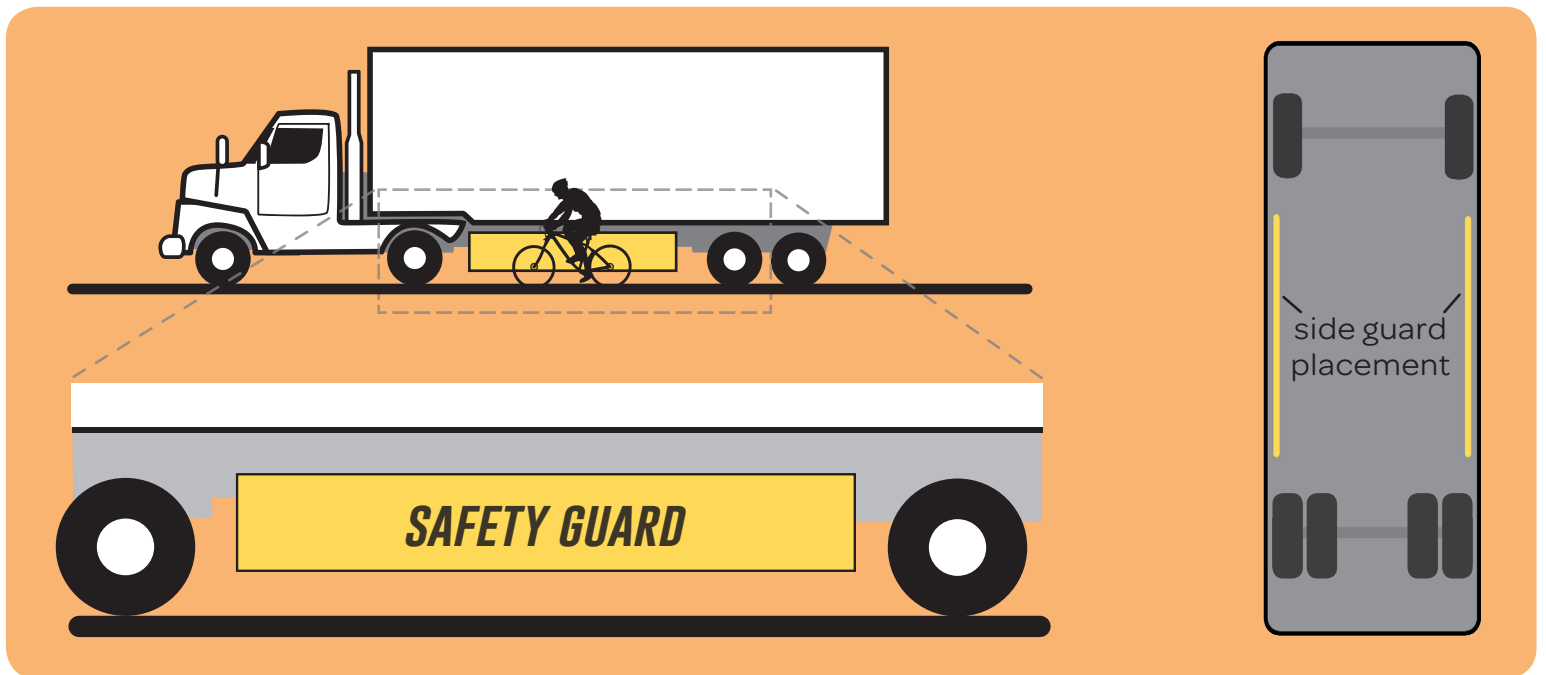
Email inspection forms to: FleetInspections@SomervilleMA.gov



CITY OF SOMERVILLE TRUCK SIDE GUARD ORDINANCE

Collisions with large vehicles are disproportionately likely to result in cyclist and pedestrian fatalities. The City of Somerville's Ordinance to Safeguard Vulnerable Road Users aims to prevent cyclists and pedestrians from the risk of being struck by a large vehicle because of limited driver visibility and lack of side-visible turn signals, as well as falling under the sides of large vehicles and being caught under the wheels.

The ordinance applies to large motor vehicles that are Class 3 or above with a gross vehicle weight rating (GVWR) exceeding 10,000 pounds, except for an ambulance, fire apparatus, low-speed vehicle with a maximum speed under 15 mph, or an agricultural tractor.



Request for Taxpayer Identification Number and Certification

Go to www.irs.gov/FormW9 for instructions and the latest information.

Give form to the requester. Do not send to the IRS.

Before you begin. For guidance related to the purpose of Form W-9, see *Purpose of Form*, below.

Print or type. See Specific Instructions on page 3.	1 Name of entity/individual. An entry is required. (For a sole proprietor or disregarded entity, enter the owner's name on line 1, and enter the business/disregarded entity's name on line 2.)	
	2 Business name/disregarded entity name, if different from above.	
	3a Check the appropriate box for federal tax classification of the entity/individual whose name is entered on line 1. Check only one of the following seven boxes.	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):
	<input type="checkbox"/> Individual/sole proprietor <input type="checkbox"/> C corporation <input type="checkbox"/> S corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> LLC. Enter the tax classification (C = C corporation, S = S corporation, P = Partnership) _____ Note: Check the "LLC" box above and, in the entry space, enter the appropriate code (C, S, or P) for the tax classification of the LLC, unless it is a disregarded entity. A disregarded entity should instead check the appropriate box for the tax classification of its owner. <input type="checkbox"/> Other (see instructions) _____	Exempt payee code (if any) _____
	3b If on line 3a you checked "Partnership" or "Trust/estate," or checked "LLC" and entered "P" as its tax classification, and you are providing this form to a partnership, trust, or estate in which you have an ownership interest, check this box if you have any foreign partners, owners, or beneficiaries. See instructions <input type="checkbox"/>	Exemption from Foreign Account Tax Compliance Act (FATCA) reporting code (if any) _____
	5 Address (number, street, and apt. or suite no.). See instructions.	Requester's name and address (optional)
	6 City, state, and ZIP code	
7 List account number(s) here (optional)		

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Social security number									
				-			-		
or									
Employer identification number									
				-					

Note: If the account is in more than one name, see the instructions for line 1. See also *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and, generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person	Date

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

What's New

Line 3a has been modified to clarify how a disregarded entity completes this line. An LLC that is a disregarded entity should check the appropriate box for the tax classification of its owner. Otherwise, it should check the "LLC" box and enter its appropriate tax classification.

New line 3b has been added to this form. A flow-through entity is required to complete this line to indicate that it has direct or indirect foreign partners, owners, or beneficiaries when it provides the Form W-9 to another flow-through entity in which it has an ownership interest. This change is intended to provide a flow-through entity with information regarding the status of its indirect foreign partners, owners, or beneficiaries, so that it can satisfy any applicable reporting requirements. For example, a partnership that has any indirect foreign partners may be required to complete Schedules K-2 and K-3. See the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS is giving you this form because they

must obtain your correct taxpayer identification number (TIN), which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid).
- Form 1099-DIV (dividends, including those from stocks or mutual funds).
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds).
- Form 1099-NEC (nonemployee compensation).
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers).
- Form 1099-S (proceeds from real estate transactions).
- Form 1099-K (merchant card and third-party network transactions).
- Form 1098 (home mortgage interest), 1098-E (student loan interest), and 1098-T (tuition).
- Form 1099-C (canceled debt).
- Form 1099-A (acquisition or abandonment of secured property).

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

Caution: If you don't return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding*, later.

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued);
2. Certify that you are not subject to backup withholding; or
3. Claim exemption from backup withholding if you are a U.S. exempt payee; and
4. Certify to your non-foreign status for purposes of withholding under chapter 3 or 4 of the Code (if applicable); and
5. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting is correct. See *What Is FATCA Reporting*, later, for further information.

Note: If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

Establishing U.S. status for purposes of chapter 3 and chapter 4 withholding. Payments made to foreign persons, including certain distributions, allocations of income, or transfers of sales proceeds, may be subject to withholding under chapter 3 or chapter 4 of the Code (sections 1441–1474). Under those rules, if a Form W-9 or other certification of non-foreign status has not been received, a withholding agent, transferee, or partnership (payor) generally applies presumption rules that may require the payor to withhold applicable tax from the recipient, owner, transferor, or partner (payee). See Pub. 515, *Withholding of Tax on Nonresident Aliens and Foreign Entities*.

The following persons must provide Form W-9 to the payor for purposes of establishing its non-foreign status.

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the disregarded entity.
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the grantor trust.
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust and not the beneficiaries of the trust.

See Pub. 515 for more information on providing a Form W-9 or a certification of non-foreign status to avoid withholding.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person (under Regulations section 1.1441-1(b)(2)(iv) or other applicable section for chapter 3 or 4 purposes), do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Pub. 515). If you are a qualified foreign pension fund under Regulations section 1.897(l)-1(d), or a partnership that is wholly owned by qualified foreign pension funds, that is treated as a non-foreign person for purposes of section 1445 withholding, do not use Form W-9. Instead, use Form W-8EXP (or other certification of non-foreign status).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a saving clause. Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items.

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if their stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first Protocol) and is relying on this exception to claim an exemption from tax on their scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 24% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include, but are not limited to, interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third-party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester;
2. You do not certify your TIN when required (see the instructions for Part II for details);
3. The IRS tells the requester that you furnished an incorrect TIN;
4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only); or
5. You do not certify to the requester that you are not subject to backup withholding, as described in item 4 under "*By signing the filled-out form*" above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code*, later, and the separate Instructions for the Requester of Form W-9 for more information.

See also *Establishing U.S. status for purposes of chapter 3 and chapter 4 withholding*, earlier.

What Is FATCA Reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all U.S. account holders that are specified U.S. persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code*, later, and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you are no longer tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account, for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account (other than an account maintained by a foreign financial institution (FFI)), list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9. If you are providing Form W-9 to an FFI to document a joint account, each holder of the account that is a U.S. person must provide a Form W-9.

• **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note for ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040 you filed with your application.

• **Sole proprietor.** Enter your individual name as shown on your Form 1040 on line 1. Enter your business, trade, or "doing business as" (DBA) name on line 2.

• **Partnership, C corporation, S corporation, or LLC, other than a disregarded entity.** Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

• **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. Enter any business, trade, or DBA name on line 2.

• **Disregarded entity.** In general, a business entity that has a single owner, including an LLC, and is not a corporation, is disregarded as an entity separate from its owner (a disregarded entity). See Regulations section 301.7701-2(c)(2). A disregarded entity should check the appropriate box for the tax classification of its owner. Enter the owner's name on line 1. The name of the owner entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For

example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2. If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, enter it on line 2.

Line 3a

Check the appropriate box on line 3a for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box on line 3a.

IF the entity/individual on line 1 is a(n) . . .	THEN check the box for . . .
• Corporation	Corporation.
• Individual or • Sole proprietorship	Individual/sole proprietor.
• LLC classified as a partnership for U.S. federal tax purposes or • LLC that has filed Form 8832 or 2553 electing to be taxed as a corporation	Limited liability company and enter the appropriate tax classification: P = Partnership, C = C corporation, or S = S corporation.
• Partnership	Partnership.
• Trust/estate	Trust/estate.

Line 3b

Check this box if you are a partnership (including an LLC classified as a partnership for U.S. federal tax purposes), trust, or estate that has any foreign partners, owners, or beneficiaries, and you are providing this form to a partnership, trust, or estate, in which you have an ownership interest. You must check the box on line 3b if you receive a Form W-8 (or documentary evidence) from any partner, owner, or beneficiary establishing foreign status or if you receive a Form W-9 from any partner, owner, or beneficiary that has checked the box on line 3b.

Note: A partnership that provides a Form W-9 and checks box 3b may be required to complete Schedules K-2 and K-3 (Form 1065). For more information, see the Partnership Instructions for Schedules K-2 and K-3 (Form 1065).

If you are required to complete line 3b but fail to do so, you may not receive the information necessary to file a correct information return with the IRS or furnish a correct payee statement to your partners or beneficiaries. See, for example, sections 6698, 6722, and 6724 for penalties that may apply.

Line 4 Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space on line 4 any code(s) that may apply to you.

Exempt payee code.

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third-party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space on line 4.

1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2).

- 2—The United States or any of its agencies or instrumentalities.
- 3—A state, the District of Columbia, a U.S. commonwealth or territory, or any of their political subdivisions or instrumentalities.
- 4—A foreign government or any of its political subdivisions, agencies, or instrumentalities.
- 5—A corporation.
- 6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or territory.
- 7—A futures commission merchant registered with the Commodity Futures Trading Commission.
- 8—A real estate investment trust.
- 9—An entity registered at all times during the tax year under the Investment Company Act of 1940.
- 10—A common trust fund operated by a bank under section 584(a).
- 11—A financial institution as defined under section 581.
- 12—A middleman known in the investment community as a nominee or custodian.
- 13—A trust exempt from tax under section 664 or described in section 4947.

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
• Interest and dividend payments	All exempt payees except for 7.
• Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
• Barter exchange transactions and patronage dividends	Exempt payees 1 through 4.
• Payments over \$600 required to be reported and direct sales over \$5,000 ¹	Generally, exempt payees 1 through 5. ²
• Payments made in settlement of payment card or third-party network transactions	Exempt payees 1 through 4.

¹ See Form 1099-MISC, Miscellaneous Information, and its instructions.

² However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) entered on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37).

B—The United States or any of its agencies or instrumentalities.

C—A state, the District of Columbia, a U.S. commonwealth or territory, or any of their political subdivisions or instrumentalities.

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i).

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i).

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state.

G—A real estate investment trust.

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940.

I—A common trust fund as defined in section 584(a).

J—A bank as defined in section 581.

K—A broker.

L—A trust exempt from tax under section 664 or described in section 4947(a)(1).

M—A tax-exempt trust under a section 403(b) plan or section 457(g) plan.

Note: You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns. If this address differs from the one the requester already has on file, enter "NEW" at the top. If a new address is provided, there is still a chance the old address will be used until the payor changes your address in their records.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have, and are not eligible to get, an SSN, your TIN is your IRS ITIN. Enter it in the entry space for the Social security number. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN.

If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's SSN (or EIN, if the owner has one). If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note: See *What Name and Number To Give the Requester*, later, for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at www.SSA.gov. You may also get this form by calling 800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at www.irs.gov/EIN. Go to www.irs.gov/Forms to view, download, or print Form W-7 and/or Form SS-4. Or, you can go to www.irs.gov/OrderForms to place an order and have Form W-7 and/or Form SS-4 mailed to you within 15 business days.

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and enter "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, you will generally have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note: Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon. See also *Establishing U.S. status for purposes of chapter 3 and chapter 4 withholding*, earlier, for when you may instead be subject to withholding under chapter 3 or 4 of the Code.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, 4, or 5 below indicates otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code*, earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third-party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), ABL accounts (under section 529A), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account) other than an account maintained by an FFI	The actual owner of the account or, if combined funds, the first individual on the account ¹
3. Two or more U.S. persons (joint account maintained by an FFI)	Each holder of the account
4. Custodial account of a minor (Uniform Gift to Minors Act)	The minor ²
5. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee ¹
b. So-called trust account that is not a legal or valid trust under state law	The actual owner ¹
6. Sole proprietorship or disregarded entity owned by an individual	The owner ³
7. Grantor trust filing under Optional Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))**	The grantor*

For this type of account:	Give name and EIN of:
8. Disregarded entity not owned by an individual	The owner
9. A valid trust, estate, or pension trust	Legal entity ⁴
10. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
11. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
12. Partnership or multi-member LLC	The partnership
13. A broker or registered nominee	The broker or nominee
14. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
15. Grantor trust filing Form 1041 or under the Optional Filing Method 2, requiring Form 1099 (see Regulations section 1.671-4(b)(2)(i)(B))**	The trust

¹ List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

² Circle the minor's name and furnish the minor's SSN.

³ You must show your individual name on line 1, and enter your business or DBA name, if any, on line 2. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

⁴ List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.)

* **Note:** The grantor must also provide a Form W-9 to the trustee of the trust.

** For more information on optional filing methods for grantor trusts, see the Instructions for Form 1041.

Note: If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records From Identity Theft

Identity theft occurs when someone uses your personal information, such as your name, SSN, or other identifying information, without your permission to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax return preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity, or a questionable credit report, contact the IRS Identity Theft Hotline at 800-908-4490 or submit Form 14039.

For more information, see Pub. 5027, Identity Theft Information for Taxpayers.

Victims of identity theft who are experiencing economic harm or a systemic problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 877-777-4778 or TTY/TDD 800-829-4059.

Protect yourself from suspicious emails or phishing schemes.

Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to phishing@irs.gov. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 800-366-4484. You can forward suspicious emails to the Federal Trade Commission at spam@uce.gov or report them at www.ftc.gov/complaint. You can contact the FTC at www.ftc.gov/idtheft or 877-IDTHEFT (877-438-4338). If you have been the victim of identity theft, see www.IdentityTheft.gov and Pub. 5027.

Go to www.irs.gov/IdentityTheft to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and territories for use in administering their laws. The information may also be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payors must generally withhold a percentage of taxable interest, dividends, and certain other payments to a payee who does not give a TIN to the payor. Certain penalties may also apply for providing false or fraudulent information.



SOMERVILLE SUPPLIER DIVERSITY CERTIFICATION FORM

Background

The City of Somerville is an equal opportunity employer and encourages businesses to apply to work with the City that are representative of the City's diverse community. In an effort to increase the opportunities for disadvantaged and small businesses within Somerville and surrounding communities, the City recognizes Massachusetts' Operational Services Division's Supplier Diversity Office certification program.

Application Process

Applicable parties may learn more about the Commonwealth's supplier diversity certification process and apply here <https://www.mass.gov/supplier-diversity-office>. During the certification process, which takes approximately 30 days, the SDO investigates applicant companies to make sure they meet applicable legal requirements. Under SDO regulations, the applicant firm must prove it is at least 51% owned and dominantly controlled by adult minority, women, Portuguese, or veteran principals who are U.S. citizens or lawful permanent residents. Firms also must be ongoing and independent.

Certifications

Check all those that apply:

- Minority Business Enterprises (MBE)**
- Women Business Enterprises (WBE)**
- Veteran Business Enterprises (VBE)**
- Portuguese Business Enterprises (PBE)**
- Other** _____

The undersigned certifies that the applicant has received certification from the Massachusetts Supplier Diversity Office for the SDO category/categories listed above and has provided the City of Somerville with a copy of the SDO certification letter.

CERTIFIED BY:

Signature: _____

(Duly Authorized Representative of Vendor)

Title: _____

Name of Vendor: _____

Date: _____



SECRETARY OF THE COMMONWEALTH'S

CERTIFICATE OF GOOD STANDING

CERTIFICATE OF GOOD STANDING as provided by the Secretary of the Commonwealth

The **Awarded Vendor** must comply with our request for a **CURRENT "Certificate of Good Standing"** provided by the Secretary of the Commonwealth's Office

NOTE: A Certificate of Good Standing provided by the Department of Revenue will NOT be accepted. The Certificate *must* be provided by the Secretary of the Commonwealth's Office.

If you require information on how to obtain the "Certificate of Good Standing" or Certificate of Registration (Foreign Corporations) from the Commonwealth of Massachusetts, please call the

Secretary of The Commonwealth's Office at (617) 727-2850 (Press #1) located at One (1) Ashburton Place, 17 Floor, Boston, MA 02133 or you may access their web site at:
<http://corp.sec.state.ma.us/CorpWeb/Certificates/CertificateOrderForm.aspx>

If your company is incorporated outside of Massachusetts and therefore is a "foreign corporation", but is registered to do business in Massachusetts, please comply with our request for the Certificate of Registration from the Commonwealth of Massachusetts. If your company is a foreign corporation, but is not registered to do business in Massachusetts, please provide the Certificate of Good Standing from your state of incorporation.

Please note that without the above certificate (s), the City of Somerville cannot execute your contract.

IMPORTANT NOTICE

Requests for Certificates of Good Standing by mail may take a substantial amount of time. A certificate may be obtained immediately in person at the Secretary's Office at the address above. Also, at this time, the Secretary of State's Office may not have your current annual report recorded. If this is the case, and you are therefore unable to obtain the Certificate of Good Standing, please forward a copy of your annual report filing fee check with your signed contracts. Please forward your original Certificate of Good Standing to the Purchasing Department upon receipt.

INSURANCE SPECIFICATIONS

INSURANCE REQUIREMENTS FOR AWARDED VENDOR ONLY:

Prior to commencing performance of any work or supplying materials or equipment covered by these specifications, the contractor shall furnish to the Office of the Chief Procurement Officer a Certificate of Insurance evidencing the following:

A. GENERAL LIABILITY - Comprehensive Form

Bodily Injury Liability.....\$ One Million

Property Damage Liability.....\$ One Million

B. COVERAGE FOR PAYMENT OF WORKER'S COMPENSATION BENEFIT PURSUANT TO CHAPTER 152 OF THE MASSACHUSETTS GENERAL LAWS IN THE AMOUNT AS LISTED BELOW:

WORKER'S COMPENSATION.....\$ Statutory

EMPLOYERS' LIABILITY.....\$ Statutory

C. AUTOMOBILE LIABILITY INSURANCE AS LISTED BELOW:

BODILY INJURY LIABILITY.....\$ STATUTORY

1. A contract will not be executed unless a certificate (s) of insurance evidencing above-described coverage is attached.
2. Failure to have the above-described coverage in effect during the entire period of the contract shall be deemed to be a breach of the contract.
3. All applicable insurance policies shall read:
"CITY OF SOMERVILLE" as a certificate holder and as an additional insured for general liability only along with a description of operation in the space provided on the certificate.

Certificate Should Be Made Out To:
City Of Somerville
c/o Procurement and Contracting Services Department
93 Highland Avenue
Somerville, MA 02143

Note: If your insurance expires during the life of this contract, you shall be responsible to submit a new certificate(s) covering the period of the contract. No payment will be made on a contract with an expired insurance certificate.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER	CONTACT NAME:		
	PHONE (A/C, No. Ext):	FAX (A/C, No):	
INSURED	E-MAIL ADDRESS:		
	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A :		
	INSURER B :		
	INSURER C :		
	INSURER D :		
	INSURER E :		
	INSURER F :		

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input type="checkbox"/> RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y/N If yes, describe under DESCRIPTION OF OPERATIONS below			N/A			WC STATUTORY LIMITS <input type="checkbox"/> OTH-ER <input type="checkbox"/> E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

ADD "X" HERETO CERTIFY THAT THE CITY OF SOMERVILLE IS AN ADDITIONAL INSURED

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

DESCRIPTION OF PROJECT, SOLICITATION NUMBER AND THAT THE CITY OF SOMERVILLE IS A CERTIFICATE HOLDER AND ADDITIONAL INSURED

CERTIFICATE HOLDER

CERTIFICATES SHOULD BE MADE OUT TO:

CITY OF SOMERVILLE
c/o PURCHASING DEPARTMENT
93 HIGHLAND AVE
SOMERVILLE, MA 02143

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

**STATEMENT OF MANAGEMENT
For Contracts over \$100,000**

In accordance with M.G.L. Chapter 30, Section 39R, the undersigned successful bidder states that its system of internal accounting controls and that of its subsidiaries reasonably assure (1) that transactions are executed in accordance with management's general and specific authorization; (2) that transactions are recorded as necessary to permit preparation of financial statements in conformity with generally accepted accounting principles, and to maintain accountability for assets; (3) that access to assets is permitted only in accordance with management's general or specific authorization, and (4) that the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action was taken with respect to any difference.

Executed this _____ day of _____, _____

On behalf of _____
(Name of Successful Bidder)

(Address and telephone of Successful Bidder)

(Name and title of person signing statement)

By: _____
(Signature)

CERTIFIED PUBLIC ACCOUNTANT STATEMENT

In accordance with M.G.L. 30, Section 39R I, _____
a certified public accountant, state that I have examined the above Statement of Management on internal accounting controls, and that in my opinion (1) the representations of management are consistent with the result of management's evaluation of the system of internal accounting controls; and (2) that such representations of management are, in addition, reasonable with respect to transactions and assets in amounts which would be material when measured in relation to the above referenced successful bidder's financial statements.

(Signature)

(Business name, address and telephone number)

**PART 2: SAMPLE CONSTRUCTION CONTRACT / CITY'S
GENERAL TERMS AND CONDITIONS**

APPENDIX D
General Conditions

GENERAL TERMS AND CONDITIONS OF THE CONTRACT
FOR CONSTRUCTION, RECONSTRUCTION, ALTERATIONS,
REMODELING, OR REPAIR OF ANY PUBLIC BUILDING OR PUBLIC WORKS
IN THE CITY OF SOMERVILLE

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ARTICLE 1
DEFINITIONS

1.1. In General.

1.1.1. **Well-known meanings.** When words or phrases that have a well-known technical, or construction industry, or trade meaning are used in the Contract Documents, such words or phrases shall be interpreted in accordance with that meaning, unless otherwise stated.

1.1.2. **Capitalization.** The words and terms defined in this Article are capitalized in these General Terms and Conditions of the Contract. Other capitalized words may refer to a specific document found in the Contract Documents.

1.1.3. **Persons.** Whenever the word person or persons is used, it includes, unless otherwise stated, entity or entities, respectively, including, but not limited to, corporations, partnerships, and joint venturers.

1.1.4. **Singular and Plural.** The following terms have the meanings indicated which are applicable to both the singular and the plural thereof.

1.2. Definitions.

1.2.1. **Agreement.** The Agreement is the written document between the City and the Contractor which is titled: Owner-Contractor Public Construction Agreement, which is the executed portion of the Contract, and which forms a part of the Contract. The Agreement also includes all documents required to be attached thereto, including, but not limited to, these general conditions, the performance bond, the labor and materials or payment bonds, certificates of insurance, and all Modifications of the Agreement.

1.2.2. **Change Order.** A Change Order is a document which is signed by the Contractor, the Design Professional, and the City; which is directed to the Contractor; which authorizes the Contractor to make an addition to, a deletion from or a revision in the Work, or an adjustment in the Contract Sum or in the Contract Time; and which is issued on or after the date of the Agreement between the Contractor and the City.

1.2.3. **City.** The City refers to the City of Somerville, which is the owner of the Project and is the public awarding authority with whom the Contractor has entered into the Contract and for whom the Work is to be provided.

1.2.4. **Claim.** A Claim is a dispute, demand, or assertion by one of the parties arising out of or relating to the Contract for which such party is seeking relief.

1.2.5. **Contract.** The Contract consists of all the Contract Documents. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations, representations, or agreements, either written or oral. The Contract may be amended or modified only by a Modification to the Contract signed by both parties.

1.2.6. **Contract Documents.** The Contract Documents consist of the Agreement; the notice of award of the Contract; the Notice to Proceed; the entire Project Manual; Change Orders; Construction Change Directives; the Contractor's Bid and all accompanying documents; and the Design Professional's written interpretations and clarifications issued on or after the issuance of the Notice to Proceed. Shop Drawing submittals and reports or drawings utilized by the Design Professional in preparing the Contract Documents are not Contract Documents.

1.2.7. **Contractor.** The Contractor is the person who is awarded the Contract for the Project herein pursuant to M.G.L. c. 149, §44A or M.G.L. c. 39, §39M; and is identified in the Agreement as such. The term "Contractor" is intended to include the Contractor as well as its authorized representative(s).

1.2.8. **Contract Sum.** The Contract Sum is the total amount stated in the Agreement payable by the City to the Contractor for the completion of the Work in accordance with the Contract Documents.

1.2.9. **Contract Time.** Unless otherwise provided, the Contract Time is the number of days allotted in the Contract Documents or the dates stated in the Agreement, including authorized adjustments, for Substantial Completion.

1.2.10. **Coordination Drawings.** Coordination Drawings are those drawings, which are prepared by the Contractor or a Subcontractor that show the exact alignment, physical locations, and configuration of the mechanical, electrical, and fire protection installations.

1.2.11. **Day.** The term "day" shall mean calendar day unless otherwise stated.

1.2.12. **Design Professional.** The Design Professional is the person lawfully licensed to practice architecture, engineering, or landscape architecture and has been selected by the City to administer the Contract. The term "Design Professional," while referred to in the singular, means the Design Professional and/or the Design Professional's representative.

1.2.13. **Field Order.** A Field Order is a written order issued by the Design Professional which orders minor changes in the Work, but which does not involve a change in the Contract Sum or the Contract Time.

1.2.14. **Final Completion.** Final Completion is the point in time when the Design Professional finds that the Work has been fully completed in accordance with the Contract Documents. Final Completion shall be no later than thirty (30) days after Substantial Completion.

1.2.15. **General Requirements.** General Requirements refer to Sections of Division 1 of the Specifications.

1.2.16. Modification. A Modification is a written instrument that amends the Contract after execution of the Agreement.

1.2.17. Notice to Proceed. A Notice to Proceed is a written notice given by the **City**, or the **Design Professional**, to the **Contractor** fixing the date on which the Contract Time will begin to run and on which the **Contractor** shall start to perform its obligations under the Contract Documents.

1.2.18. Plans. The Plans are the drawings which are the graphic and pictorial portions of the Contract Documents, wherever located and whenever issued, showing the design, location, dimensions, scope, extent, and character of the Work to be furnished and performed by the **Contractor** and which have been prepared or approved by the **Design Professional**.

1.2.19. Product Data. Product Data are illustrations, standard schedules, performance charts, instructions, brochures, diagrams, and other information furnished by the **Contractor** to illustrate materials or equipment for some portion of the Work. Product Data are not considered part of the Contract Documents.

1.2.20. Project. The Project is the total Work to be provided under the Contract Documents and may be the whole or a part as indicated elsewhere in the Contract Documents and may include construction by the **City** or by separate contractors. The Project is the Work described in the invitation to bid (advertisement) and Specifications and illustrated by the Plans, including any Modifications.

1.2.21. Project Manual. The Project Manual is the entire set of bidding documents which includes, but is not limited to, the invitation to bid (advertisement), the instructions to bidders, all of the forms, the wage rates, all City and state requirements, the General Terms and Conditions of the Contract, any supplementary conditions thereto, the Plans, the Specifications, and all addenda.

1.2.22. Proposed Change Order. A Proposed Change Order is a Change Order that has been submitted by the **Contractor** to the **Design Professional**, is under review, and has not been approved by the **City**.

1.2.23. Samples. Samples are physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be judged. Samples are not considered part of the Contract Documents.

1.2.24. Shop Drawings. Shop Drawings are all drawings, diagrams, illustrations, schedules, and other information that are specifically prepared or assembled by or for the **Contractor** and submitted by the **Contractor** to illustrate some portion of the Work. Shop Drawings are not considered part of the Contract Documents.

1.2.25. Site. The Site is the location of the Project and of the Work.

1.2.26. Specifications. Specifications are those portions of the Contract Documents consisting of written technical descriptions of materials, equipment, construction systems, standards, and workmanship as applied to the Work and certain administrative details applicable thereto.

1.2.27. Subcontractor. A Subcontractor is a person who contracts directly with the **Contractor**, unless otherwise stated.

1.2.28. Submittals. Submittals are those Shop Drawings, Product Data, Samples, or any other required document that are provided to the Design Professional for review and approval.

1.2.29. Substantial Completion. Substantial Completion means that the Work has been completed and the Site or the facility is opened for full and intended public use, except for minor incomplete or unsatisfactory items that do not materially impair the usefulness of the Work. The **Design Professional** shall decide what constitutes "minor," "incomplete," "unsatisfactory," "materially" and the **Design Professional's** decision shall be final.

1.2.30. Sub-subcontractor. A Sub-subcontractor is a person who has contracted directly with a Subcontractor.

1.2.31. Supplier. A Supplier is a manufacturer, fabricator, distributor, material person, or vendor having a direct contract with the Contractor or with any Subcontractor to furnish materials or equipment to be incorporated into the Work by the Contractor or any Subcontractor.

1.2.32. Work. Work refers to the services and the entire completed construction or the various separately identifiable parts thereof required by the Contract Documents, including all labor, materials, and equipment furnished, furnished and incorporated into the Project, or to be provided by the **Contractor** to fulfill the **Contractor's** obligations. The Work may constitute the whole or a part of the Project.

1.2.33. Construction Change Directive. A Construction Change Directive is a written directive to the **Contractor** ordering an addition to, a deletion from, or a revision to the Work issued on or after the date of the Agreement, signed by the **City**, and recommended by the **Design Professional**.

ARTICLE 2

ABOUT THE CONTRACT DOCUMENTS

2.1. Priority/Conflict.

2.1.1. Priority Among Contract Documents. In the event of conflict among the Contract Documents, the Contract Documents shall be construed according to the following priorities:

- Highest Priority: Modifications
- Second Priority: Agreement
- Third Priority: Addenda-later date to take precedence
- Fourth Priority: Supplementary General Conditions
- Fifth Priority: General Conditions
- Sixth Priority: Plans and Specifications

2.1.1.1. If there is a conflict between the Plans and Specifications, the figured dimensions shall govern over the scaled dimensions. Detailed Plans shall govern over the general Plans. Larger scale Plans shall take precedence over smaller scale Plans. Plans shall govern over Shop Drawings. Whenever notes, specifications, dimensions, details, or schedules in the Specifications or in the Plans, or between the Specifications and the Plans, or in all other instances not specifically noted above, the **Contractor** shall provide, unless otherwise directed by a Modification of the Contract, the better quality or greater quantity of Work at no increase in the Contract Sum or in the Contract Time.

2.1.1.2. Compliance with these priority conditions shall not justify any changes in the Work or any increase in the Contract Sum or Contract Time, unless any such compliance results in Work that may not be reasonably inferred from the Contract Documents as being required to produce the intended result as determined by the **Design Professional**.

2.1.2. Review of the Contract Documents and Field Conditions and Discovery of Conflict, Error, Ambiguity, or Discrepancy. Before starting the Work, and during the progress thereof, the **Contractor** shall carefully study and compare the Contract Documents with each other and with the information furnished by the **City** pursuant to Article 3 and shall at once report to the **Design Professional** any error, inconsistency, or omission the **Contractor** may discover. Any necessary change shall be ordered as provided in Article 11, subject to the requirements of any other provisions of the Contract Documents. The **Contractor** shall not proceed with the Work affected thereby (except in an emergency) until a Modification has been issued. If the **Contractor** proceeds with the Work having discovered such errors, inconsistencies, or omissions contrary to the provisions contained herein, or if by reasonable study of the Contract Documents the **Contractor** could have discovered such, the **Contractor** shall bear all costs arising therefrom. The **Contractor** shall be liable to the **City** for failure to report any conflict, error, ambiguity, or discrepancy of which it knew or should have known.

2.1.3. Field Measurements. The **Contractor** shall take field measurements and verify field conditions and shall carefully compare such field measurements and conditions and other information known to the **Contractor** with the Contract Documents before commencing activities. Errors, inconsistencies, or omissions discovered shall be reported to the **Design Professional** at once.

2.1.4. Statutory Provisions. The **City** and the **Contractor** recognize that other rights duties and obligations with respect to public construction contracts are provided for by statute, notwithstanding the fact that they may not be provided for in the Contract Documents. In case of conflict between the statutory provisions and other provisions of the Contract Documents and the provisions of any applicable statute, the statutory provisions shall govern.

2.1.5. Voided or Unlawful Provisions. In the event any provision in the Contract is voided or deemed unlawful, such provision shall be deleted without affecting the remainder of the Contract.

2.2. Execution.

2.2.1. Execution of the Agreement by the **Contractor** is a representation that the **Contractor** has visited the Site, become familiar with local conditions under which the Work is to be performed, and correlated personal observations with requirements of the Contract Documents.

2.3. Intent.

2.3.1. Entire Agreement. The Contract Documents comprise the entire agreement between the **City** and the **Contractor** concerning the Work. The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the **Contractor**. The Contract Documents are complementary; what is required by one shall be as binding as if required by all. Performance by the **Contractor** shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the intended results. All Work mentioned or indicated in the Contract Documents shall be performed by the **Contractor** as part of this Contract unless it is specifically indicated in the Contract Documents that such Work is to be done by others.

2.3.2. Statutory Provisions. Each and every provision of law, code, and regulation, required by law to be inserted

in these Contract Documents shall be deemed to be inserted herein, and they shall be read and enforced as though it were included herein, and if through mistake or otherwise, any such provision is not inserted, or if not correctly inserted, then upon the application of either party, the Contract Documents shall forthwith be physically amended to make such insertion.

2.3.3. Functionally Complete Project. It is the intent of the Contract Documents to describe a functionally complete Project. The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the **Contractor**. Any Work, materials, or equipment that may be reasonably inferred from the Contract Documents or from prevailing custom or trade usage as being required to produce the intended result will be furnished and performed by the **Contractor** whether or not specifically called for in the Contract Documents.

2.3.4. Indications or Notations. All indications or notations which apply to one of a number of similar situations, materials, or processes shall be deemed to apply to all such situations, materials, or processes wherever they appear in the Work, except where a contrary result is clearly indicated by the Contract Documents.

2.3.5. Standards or Quality of Materials or Workmanship. Where no explicit quality or standards for materials or workmanship are established for Work, such Work is to be of good quality for the intended use and consistent with the quality of the surrounding Work and of the construction of the Project generally.

2.3.6. Manufactured Products. All manufactured articles, materials, and equipment shall be applied, installed, connected, erected, used, cleaned, and conditioned in accordance with the manufacturer's written or printed directions and instructions unless otherwise indicated in the Contract Documents.

2.3.7. Mechanical, Electrical, and Fire Protection Plans. The mechanical, electrical, and fire protection Plans are diagrammatic only and are not intended to show the alignment, physical locations, or configurations of such Work. Such Work shall be installed without additional cost to the **City** to clear all obstructions, permit proper clearances for the Work of other trades, and present an orderly appearance where exposed. Prior to beginning such Work, the **Contractor** shall prepare Coordination Drawings and demonstrate to the **Design Professional's** satisfaction that the installations will comply with the preceding sentence. The **Contractor** shall be solely liable and responsible for any costs and/or delays resulting from the **Contractor's** failure to prepare such Coordination Drawings.

2.3.8. Locations of Fixtures and Outlets. Exact locations of fixtures and outlets shall be obtained from the **Design Professional** as provided in Article 5 before the Work is roughed in. Work installed without such information from the **Design Professional** shall be relocated at the **Contractor's** expense.

2.3.9. Tests. When test boring or soil test information are included with the Contract Documents or otherwise made available to the **Contractor** and such test boring or soil test information was obtained by the **City** for use by the **Design Professional** in the design of the Project or Work, the **City** does not hold out such information to the **Contractor** as an accurate or approximate indication of subsurface conditions, and no claim for extra cost of extension of time resulting from a reliance by the **Contractor** on such information shall be allowed except as otherwise provided herein. Any such reports are not part of the Contract Documents.

2.3.10. Joining Work. Where the Work is to fit with existing conditions or work to be performed by others, the **Contractor** shall fully and completely join the Work with such conditions or work, unless otherwise specified.

2.4. Organization.

2.4.1. Except as provided in M.G.L. c. 149, §44F, the organization of the Specifications into divisions, sections, and articles, and the arrangement of Plans shall not control the **Contractor** in dividing the Work among Subcontractors or in establishing the extent of Work to be performed by any trade.

2.5. References.

2.5.1. Where codes, manuals, specifications, standards, requirements and publications of public and private bodies are referred to in the Contract Documents whether specifically or by implication, references shall be understood to be to the latest revision prior to the date of receiving bids, except where otherwise indicated. Where statutes are referred to in the Contract Documents whether specifically or by implication, references shall be understood to be to the latest revision.

2.5.2. References herein to particular paragraphs or Articles are solely to facilitate finding additional information with regard to the specific matters and are not to be construed in any way as limiting the possible paragraphs and Articles in which such matters may be found elsewhere in this document.

2.6. Reuse of Design Professional's Written Instruments.

2.6.1. Neither the **Contractor** nor any Subcontractor or Supplier shall have or acquire any title to or ownership rights in any of the Plans, Specifications, or other documents prepared by the **Design Professional** and shall not reuse any of such Plans, Specifications, or other documents without prior written consent of the **City** and the **Design Professional**.

2.7. Written Material of the Contractor.

2.7.1. All written material prepared or collected by the **Contractor** in the course of completing the Work shall be the exclusive property of the **City** and shall not be used by the **Contractor** for any purpose other than the purpose of this Contract.

2.8. Modifying Words.

2.8.1. In the interest of simplicity, modifying words such as "all" and "any" may be omitted, but the fact that such words may be absent from one sentence and appear in another is not intended to affect the interpretation of either statement.

2.9. Use of Certain Words and Terms.

2.9.1. Whenever in the Contract Documents the terms "as ordered," "as directed," "as required," "as allowed," "as approved," or terms of like effect or import are used, or the adjectives "reasonable," "suitable," "acceptable," "proper," "satisfactory," or adjectives of like effect or import are used to describe a requirement, direction, review, or judgment of the **City** or of the **Design Professional** as to the Work, it is intended that such requirement, direction, review, or judgment will be solely to evaluate, in general, the completed Work for compliance with the requirements of and information in the Contract Documents and conformance with the design concept of the completed Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise).

2.9.2. The use of any such term or adjective shall not be effective to change the duties and responsibilities of the **City** or the **Design Professional** from those assigned in the Contract Documents or to assign any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of the Contract Documents.

2.9.3. When the words "Contractor," "Subcontractor," "Sub-subcontractor," and "Supplier" are used, they are intended to include their employees and agents, unless otherwise specified.

2.10. Modification of the Contract Documents.

2.10.1. Major Modifications. Major Modifications may affect the Contract Sum or the Contract Time. The Contract Documents may be amended to provide for additions, deletions, and revisions in the Work or to modify the terms and conditions thereof in one or more of the following ways, all of which must contain a written endorsement by the **City**:

2.10.1.1. a formal written amendment;

2.10.1.2. a Change Order;

2.10.1.3. a **Construction Change** Directive; or

2.10.1.4. the **Design Professional's** written interpretation, clarification, or decision.

2.10.2. Minor Modifications. Minor modifications do not affect the Contract Sum or the Contract Time. The requirements of the Contract Documents may be supplemented and minor variations and deviations of the Work may be authorized in one or more of the following ways:

2.10.2.1. a Field Order; or

2.10.2.2. the **Design Professional's** approval of a Shop Drawing or Sample.

ARTICLE 3 THE CITY

3.1. Signatory.

3.1.1. All documents which require a signature or an endorsement by the **City** must be signed by the Mayor in order to be deemed ratified by the **City**.

3.2. Requirements to Provide Documents.

3.2.1. To the extent they are available, the **City** shall furnish surveys describing physical characteristics, legal limitations, and utility locations for the site of the Project, and a legal description of the Site.

3.2.2. The City shall obtain and pay for necessary approvals, easements, assessments, and charges that are customarily secured prior to the execution of the Contract.

3.2.3. The City shall furnish information or services required of the City hereunder with reasonable promptness after receipt from the Contractor of a written request for such information or services.

3.2.4. The City shall provide the Contractor, at no charge, such copies of the Project Manual as are reasonably necessary for the execution of the Work.

3.3. Clerk of the Works.

3.3.1. The City may engage a Clerk of the Works for this Project, in which case the City shall, upon request of the Contractor, provide the Contractor with a written statement of the duties, responsibilities, and limitations of authority of such Clerk of the Works. Except as expressly set forth in such written statement, the Clerk of the Works shall have no authority to approve Work, to approve Change Orders, or to exercise any of the power and authority of the City or the Design Professional. The Clerk of the Works shall observe the Contractor's operations and construction activities for compliance with the Plans and Specifications. The Clerk of the Works shall have access to all areas of the Project at all times. The Contractor shall fully cooperate with the Clerk of the Works in the performance of the Clerk's duties.

3.4. City's Right to Perform Construction and to Award Separate Contracts.

3.4.1. The City reserves the right to perform construction or operations at the Site with its own forces or others. If the Contractor claims that a delay or additional cost is involved because of such action by the City, the Contractor shall make such Claim as provided elsewhere in the Contract Documents.

3.4.2. When the separate contracts are awarded for different portions of the Project or other construction or operations on the site, the term "Contractor" in the Contract Documents in each case shall mean the Contractor who executes each separate City-Contractor Agreement.

3.4.3. The City shall provide for coordination of the activities of the City's own forces and of each separate contractor with the Work of the Contractor, who shall cooperate with them. The Contractor shall afford each other person access to the Site and shall properly coordinate its Work with that of the persons performing other work. The Contractor shall participate with other separate contractors and the City in reviewing their construction schedules when directed to do so. The Contractor shall make any revisions to the construction schedules deemed necessary after a joint review and mutual agreement. The construction schedules shall then constitute the schedules to be used by the Contractor, separate contractors, and the City until subsequently revised.

3.5. Limitations on the City's Responsibilities.

3.5.1. The City shall not supervise, direct, or have control or authority over, nor be responsible for the Contractor's means, methods, techniques, sequences, or procedures of construction or the safety precautions and programs incident thereto, or for any failure of the Contractor to comply with laws, codes and regulations applicable to the furnishing or performance of the Work. The City will not be responsible for the Contractor's failure to perform or furnish the Work in accordance with the Contract Documents. The City is not responsible for the acts or omissions of the Contractor, any Subcontractor, Supplier, or anyone for whose acts the Contractor, any Subcontractor or Suppliers may be liable.

3.5.2. The City's authority to review any of the Contractor's progress schedules, or its decision to raise or not to raise any objections about such schedules shall not impose on the City any responsibility for the timing, planning, scheduling, or execution of the Work, nor in any way give rise to any duty or responsibility on the part of the City to exercise this authority for the benefit of the Contractor, any Subcontractor or Supplier or any other party.

3.5.3. The City's decision to raise or not to raise objections with regard to any aspects of the Contractor's insurance shall in no way give rise to any duty or responsibility on the part of the City to or for the benefit of the Contractor, any Subcontractor, any Supplier, or any other party.

3.6. Reservation of Rights.

3.6.1. The City reserves the right to correct at any time any error in any progress payment that may have been made.

3.6.2. Should defective Work be discovered subsequent to final payment, the City reserves the right to make a claim and recover all costs and professional fees associated therewith, including the cost of removing and/or replacing the defective Work.

3.7. Waivers.

3.7.1. All waivers by the City are valid only to the extent that they are signed by the City. Any such waivers pertain only to the specific matter contained in the waiver and not to any similar, subsequent matters.

ARTICLE 4 THE DESIGN PROFESSIONAL

4.1. City's Representative.

4.1.1. The Design Professional is the City's representative (1) during construction, (2) until final payment is due, and (3) with the City's concurrence, from time to time during the correction period described in Article 10. The Design Professional will advise and consult with the City. The Design Professional will have authority to act on behalf of the City only to the extent provided in the Contract Documents, unless otherwise modified by a written instrument in accordance with other provisions of the Contract.

4.1.2. The duties, responsibilities, and the limitations of authority of the Design Professional as the City's representative during construction are set forth in the Contract Documents and shall not be extended without the written consent of the City and the Design Professional.

4.2. Administration of the Contract.

4.2.1. The Design Professional will provide administration of the Contract as described in the Contract Documents, unless the City has engaged a construction manager.

4.3. Visits to the Site.

4.3.1. The Design Professional will visit the site at intervals appropriate to the stage of construction to become generally familiar with the progress and quality of the completed Work and to determine in general if the Work is being performed in a manner indicating that the Work, when completed, will be in accordance with the Contract Documents. However, the Design Professional will not be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. On the basis of on-site observations as an architect, engineer, or landscape architect, the Design Professional will keep the City informed of progress of the Work in writing and will endeavor to guard the City against defects and deficiencies in the Work.

4.4. Communications Facilitating Contract Administration.

4.4.1. Except as otherwise provided in the Contract Documents or when direct communications have been specially authorized, the City and the Contractor shall endeavor to communicate through the Design Professional. Communications by and with the Design Professional's consultants shall be through the Design Professional. Communications by and with Subcontractors and Suppliers shall be through the Contractor. Communications by and with City employees and separate contractors shall be through the City.

4.4.2. When it deems it necessary or expedient, the City may communicate directly with the Contractor, any Subcontractors, Suppliers, or consultants.

4.5. Certification of Applications for Payment.

4.5.1. Based on the Design Professional's observations and evaluations of the Contractor's applications for payment, the Design Professional will review and certify the amounts due the Contractor and will issue certificates for payment in such amounts.

4.6. Rejection of Work.

4.6.1. The Design Professional will have authority to reject or disapprove Work (1) that does not conform to the Contract Documents; (2) that the Design Professional believes to be defective; and (3) that the Design Professional believes will not produce a completed Project conforming to the Contract Documents or that will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. Whenever the Design Professional considers it necessary or advisable for implementation of the intent of the Contract Documents, the Design Professional will have authority to require additional inspection or testing of the Work in accordance with Article 9, whether or not such Work is fabricated, installed, or completed. However, neither this authority of the Design Professional nor a decision made in good faith either to exercise or not to exercise such authority shall give rise to a duty or responsibility of the Design Professional to the Contractor, Subcontractors, Suppliers, or other persons performing portions of the Work.

4.7. Review of Submittals.

4.7.1. The Design Professional will review or take other appropriate action upon the Contractor's submittals such as Shop Drawings, Product Data, and Samples, but only for the limited purpose of checking for conformance with information given and the design concept expressed in the Contract Documents and only to the extent that the Design Professional believes desirable to protect the City's interest. The Design Professional's action will be taken with reasonable promptness, while allowing sufficient time in the Design Professional's professional judgment to permit adequate review, taking into account the

time periods set forth in the latest schedule prepared by the **Contractor** and approved by the **Design Professional**. Review of such submittals is not conducted for the purpose of determining the accuracy and completeness of other details such as dimensions and quantities, or for substantiating instructions for installation or performance of equipment or systems, all of which remain the responsibility of the **Contractor** as required by the Contract Documents. The **Design Professional's** review of the **Contractor's** submittals shall not relieve the **Contractor** of the obligations under Article 5. The **Design Professional's** review shall not constitute approval of safety precautions or of any construction means, methods, techniques, sequences, or procedures. The **Design Professional's** approval of a specific item shall not indicate approval of an assembly of which the item is a component. After the rejection of the second resubmittal of any one Submittal, the **Contractor** shall bear the cost of the review of each subsequent resubmittal.

4.8. Preparation of Change Orders and Construction Change Directives.

4.8.1. The **Design Professional** will prepare Change Orders and **Construction Change** Directives and may authorize minor Modifications in the Work as provided in Article 11.

4.9. Inspections.

4.9.1. The **Design Professional** will conduct inspections to determine the date or dates of Substantial Completion and the date of final completion; will receive and forward to the **City** for the **City's** review and records written warranties and related documents required by the Contract and assembled by the **Contractor**; and will issue a final certificate for payment upon the **Contractor's** compliance with all of the requirements of the Contract Documents.

4.10. Interpretations, Clarifications, and Decisions.

4.10.1. The **Design Professional** will interpret and decide matters concerning performance under and requirements of the Contract Documents on written request of either the **City** or the **Contractor**. The **Design Professional's** response to such requests will be made with reasonable promptness and within the time set forth in the Agreement between the **City** and the **Design Professional**. Any such written interpretations, clarifications, and decisions shall be binding on the **Contractor**.

4.10.2. Interpretations, clarifications, and decisions of the **Design Professional** will be consistent with the intent of and reasonably inferable from the Contract Documents and will be in writing or in the form of drawings. The **Design Professional** will not be liable to the **Contractor**, any Subcontractor, or Supplier for results of interpretations, clarifications, or decisions so rendered in good faith.

4.10.3. The **Design Professional** may, as the **Design Professional** judges desirable, issue additional drawings or instructions indicating in greater detail the construction or design of the various parts of the Work; such drawings or instructions may be effected by a Field Order or other notice to the **Contractor**, and provided such drawings or instructions are reasonably consistent with the previously existing Contract Documents, the Work shall be executed in accordance with such additional drawings or instructions without any additional cost or an extension of the Contract Time.

4.10.4. The **Design Professional's** decisions on matters relating to aesthetic effect must be consistent with the **City's** and will be final.

4.11. Limitation on the Design Professional's Responsibilities.

4.11.1. Neither the **Design Professional's** authority to act under the provisions of the Contract Documents nor any decision made by the **Design Professional** in good faith to exercise or not to exercise such authority shall give rise to any duty or responsibility of the **Design Professional** to the **Contractor**, any Subcontractor, any Supplier, any surety for any of them or any other person.

4.11.2. The **Design Professional** will not have control over or charge of and will not be responsible for construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with the Work, since these are solely the **Contractor's** responsibility as provided in Article 5. The **Design Professional** will not be responsible for the **Contractor's** failure to carry out the Work in accordance with the Contract Documents. The **Design Professional** will not have control over or charge of and will not be responsible for acts or omissions of the **Contractor**, Subcontractors, Suppliers, or of any other persons performing portions of the Work.

**ARTICLE 5
THE CONTRACTOR**

5.1. Relationship with the City.

5.1.1. The **Contractor** is an independent contractor and not an employee of the **City**. The **Contractor** is engaged by virtue of the Contract to perform only those services contained therein. The **Contractor** is not authorized to contract on behalf of the **City** or to incur any liability on the part of the **City**.

5.2. Code of Conduct.

5.2.1. M.G.L. c. 268A establishes standards of conduct for officials and employees of the **City**. The **Contractor** shall familiarize itself with the statute and act accordingly.

5.3. Quality Assurance.

5.3.1. The **Contractor** shall be responsible for ensuring that it, all Subcontractors, Suppliers, and all persons employed to do the Work under the Contract Documents perform in a professional manner, provide a high quality of service and Work, and perform in accordance with the Contract Documents.

5.4. Supervision.

5.4.1. Competence and Efficiency. The **Contractor** shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills, attention and expertise as may be necessary to perform the Work in accordance with the Contract Documents.

5.4.2. Construction Means, Methods, Techniques, Etc. The **Contractor** shall be solely responsible for and have control over construction means, methods, techniques, sequences, and procedures and for coordinating all portions of the Work under the Contract. Where the Contract Documents refer to particular construction means, methods, techniques, sequences, or procedures or indicate or imply that such are to be used in the Work, such mention is intended only to indicate that the operations of the **Contractor** shall be such as to produce at least the quality of Work implied by the operations described. The actual determination of whether or not the described operations may be safely and suitably employed on the Work shall be the responsibility of the **Contractor**, who shall notify the **Design Professional** in writing, prior to implementation, of the actual means, methods, techniques, sequences, or procedures which will be employed on the Work, if these differ from those mentioned in the Contract Documents. All loss, damage, liability or cost of correcting defective work arising from the employment of any construction means, methods, techniques, sequences, or procedures shall be borne by the **Contractor**, notwithstanding that such construction means, methods, techniques, sequences, or procedures are referred to, indicated or implied by the Contract Documents, unless the **Contractor** has given timely notice to the **City** and the **Design Professional** in writing that such means, methods, techniques, sequences, or procedures are not safe or suitable, and the **City** has then instructed the **Contractor** in writing to proceed at the **City's** risk.

5.4.3. Variance between the Contract Documents and Statutes, Ordinances, Codes, Rules, and Regulations. The **Contractor** shall promptly notify the **Design Professional** and the **City** in writing of any variances between the Contract Documents and statutes, ordinances, codes, rules, and regulations. If the **Contractor**, without written notice to the **Design Professional** and the **City**, performs Work knowing that it is contrary to statutes, ordinances, codes, rules, and regulations, the **Contractor** shall assume full responsibility for such Work and shall bear the costs associated therewith, i.e., replacement, repairs, removal, and fines.

5.4.4. Acts and Omissions. The **Contractor** shall be responsible to the **City** for the acts and omissions of all persons performing or supplying the Work.

5.4.5. Inspections. The **Contractor** shall be responsible for inspection of portions of Work already performed under this Contract to determine whether such portions are in proper condition to receive subsequent Work.

5.5. Personnel.

5.5.1. Suitability. The **Contractor** shall provide competent, properly licensed and/or certified, suitably qualified, and reliable personnel to perform the Work required by the Contract Documents. The **Contractor** shall enforce strict discipline and maintain good order at the site at all times. The **Contractor** shall not employ any Subcontractor, Supplier, or other person, whether initially or as a substitute, against whom the **City** may have reasonable objection. Acceptance of any Subcontractor or other person by the **City** shall not constitute a waiver of any right of the **City** to reject defective Work.

5.5.2. Sexual Harassment. Sexual harassment is an unlawful practice under M.G.L. c. 151B. The **Contractor**, Subcontractors, and all other persons responsible for any portion of the Work shall refrain from engaging in sexual harassment. The **Contractor** shall be responsible for any acts of sexual harassment committed by any persons responsible for any portion of the Work. The **Contractor** shall take appropriate action against any such individuals.

5.5.3. Weapons and Illegal Drugs. No weapons or illegal drugs are permitted on the Site. It is the responsibility of the **Contractor** to ensure that no weapons or illegal drugs are brought to the Site.

5.5.4. Maximum Work Day and Work Week. (*Reference:* M.G.L. c. 149, §§30 and 34;). No laborer, worker, mechanic, foreperson or inspector working within this Commonwealth in the employ of the **Contractor**, Subcontractor or other person doing or contracting to do the whole or part of the work contemplated by the Contract, shall be required or permitted to work more than eight (8) hours in any one day or more than forty-eight (48) hours in any one week, or more than six (6) days in any one week, except in cases of emergency.

5.5.5. Lodging. (Reference: M.G.L. c. 149, §25;). Every employee under this Contract shall lodge, board and trade where and with whom he or she elects, and neither the **Contractor** nor its agents or employees shall, either directly or indirectly, require as a condition of the employment of any person that the employee shall lodge, board or trade at a particular place or with a particular person.

5.5.6. Wage Rates. (Reference: M.G.L. c. 149, §27). Mechanics and apprentices, teamsters, chauffeurs and laborers performing Work shall be paid no less than the minimum rate of wages included in the bid documents and the Project Manual and which are made part of the Contract. They shall continue to be the minimum rate of wages for said employees during the life of the Contract. The **Contractor** shall keep a legible copy of the wage rates posted in a conspicuous place at the site during the life of the Contract. These rates of wages shall include payments by employers to health and welfare plans, pension plans and supplementary unemployment benefit plans as provided in M.G.L. c. 149, §26; and such payments shall be considered as payments to persons under M.G.L. c. 149, §27 performing work as therein provided. If the **Contractor** does not make payments to a health and welfare plan, a pension plan and a supplementary unemployment benefit plan, where such payments are included in the rates of wages, the **Contractor** shall pay the amount of said payments directly to each employee engaged in the Work. If the **Contractor** pays less than the rate of wages, including payments to health and welfare funds and pension funds, or the equivalent payments in wages to any person performing Work within the classifications as determined by the Commissioner of Labor and Industries, and if the **Contractor** takes or receives for its own use or the use of any other person, as a rebate, refund or gratuity, or in any other guise, any part or portion of the wages, including payments to health and welfare funds and pension funds, or the equivalent payment in wages, paid to such person for Work done or service rendered on the Project, the **Contractor** will be subject to the penalties set forth in M.G.L. c. 149, §27. Notwithstanding the foregoing and the requirements of 5.5.7.1 and 5.5.7.2 below, if the Contract is federally funded, federal labor standards apply, including Davis Bacon minimum wage rates and payroll reporting requirements. See the "Federal Requirements" section at the end of these contract documents.

5.5.7. Payroll Records of Employees. (Reference: M.G.L. c. 149, §27B;). The **Contractor** and all Subcontractors who are subject to M.G.L. c. 149, §§27 and 27A shall keep a true and accurate record of all mechanics and apprentices, teamsters, chauffeurs, and laborers performing Work showing the name, address and occupational classification of each such employee, the hours worked by and the wages paid to all such employees. The **Contractor** and the Subcontractors shall submit a copy of said record to the **City** on a weekly basis.

5.5.7.1. (Reference: M.G.L. c. 149, §27B;). The **Contractor** and all Subcontractors who are subject to M.G.L. c. 149, §§27 and 27A shall preserve their payroll records for a period of three (3) years from the date of completion of the Contract.

5.5.7.2. (Reference: M.G.L. c. 149, §27B). The **Contractor** and all Subcontractors who are subject to M.G.L. c. 149, §§27 and 27A shall furnish to the Commissioner of Labor and Industries and the **City** within fifteen (15) days after completion of their portion of the Work a statement executed by the **Contractor** or Subcontractor or by any authorized officer or employee of the **Contractor** or Subcontractor who supervises the payment of wages in the form found in M.G.L. c.149, §27B.

5.6. Superintendence.

5.6.1. Employment of a Superintendent. The **Contractor** shall employ a competent, properly licensed superintendent, reasonably acceptable to the **City**, and necessary assistants who shall be in attendance at the Site full time during the progress of the Work until the date of Substantial Completion and for such additional time thereafter as the **Design Professional** or the **City** may determine to be necessary for the expeditious completion of the Work, including final completion. If continually in the employ of the Contractor, the same Superintendent shall be assigned to this project.

5.6.2. Removal/Replacement of a Superintendent. The **Contractor** shall remove the superintendent if requested to do so in writing by the **City** and shall promptly replace such superintendent with a competent person reasonably acceptable to the **City**. The superintendent shall represent the **Contractor**, and communications given to the superintendent shall be as binding as if given to the **Contractor**. The **Contractor** shall not replace the superintendent without written notice to the **City** and the **Design Professional**.

5.6.3. Registered Professional Engineer or Registered Land Surveyor. The **Contractor** shall retain a competent Registered Professional Engineer or Registered Land Surveyor, acceptable to the **Engineer**, who shall establish the exterior lines and required elevations of all buildings and structures to be erected on the site and shall establish sufficient lines and grades for the construction of associated Work such as, but not limited to, roads, utilities, and site grading. The Engineer or Land Surveyor shall certify as to the actual location of the constructed facilities in relation to property lines, building lines, easements, and other restrictive boundaries.

5.6.4. Building Grades, Lines, Etc.; The **Contractor** shall establish the building grades; lines; levels; and column, wall and partition lines required by the various Subcontractors in laying out their Work.

5.6.5. Coordination and Supervision. The **Contractor** shall coordinate and supervise the Work performed by Subcontractors to the end that the Work is carried out without conflict between trades and so that no trade, at any time, causes delay to the general progress of the Work. The **Contractor** and all Subcontractors shall at all times afford each trade, any separate contractor, or the **City**, every reasonable opportunity for the installation of Work and the storage of materials.

5.6.6. Job Meetings. There shall be job meetings held on a weekly basis, or more often if required by the **City**. The **Contractor** shall arrange for and attend weekly job meetings with the **Design Professional** and such other persons as the **Design Professional** may from time to time wish to have present. The **Contractor** shall be represented by a principal, project manager, general superintendent or other authorized main office representative, as well as by the **Contractor's** own superintendent. An authorized representative of any Subcontractor or Sub-subcontractor shall attend such meetings if the representative's presence is requested by the **Design Professional**. Such representatives shall be empowered to make binding commitments on all matters to be discussed at such meetings, including costs, payments, Change Orders, time schedules and workforce power. Any notices required under the Contract may be served on such representatives.

5.7. Materials, Labor, Equipment, Etc.

5.7.1. Provision of. Unless otherwise provided in the Contract Documents, the **Contractor** shall furnish and assume full responsibility for all materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the furnishing, performance, testing, start-up, and completion of the Work. The Contractor shall and will, in good workmanlike manner, do and perform all work and furnish all supplies and materials, machinery, equipment, facilities and means, except as herein otherwise expressly specified, necessary or proper to perform and complete all the work required by this contract, within the time herein specified, in accordance with the provisions of this contract and said specifications and in accordance with the plans and drawings, and in accordance with the directions of the Design Professional or CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT) as given from time to time during the progress of the work. He shall furnish, erect, maintain and remove such construction plant and such temporary works as may be required. The Contractor shall observe, comply with and be subject to all terms, conditions, requirements and limitations of the contract and specifications, and shall do, carry on and complete the entire work to the satisfaction of the Design Professional and CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT).

5.7.1.1. The Contractor shall furnish, install and/or maintain ample sanitary facilities for the workmen. As the needs arise, a sufficient number of enclosed temporary toilets shall be conveniently placed as required by the sanitary codes of the State and Local Government. Drinking water shall be provided from an approved source, so piped or transported as to keep it safe and fresh and served from single service containers or satisfactory types of sanitary drinking stands or fountains. All such facilities and services shall be furnished in strict accordance with existing and governing health regulations. Nothing in this Section shall be construed as forbidding the use of facilities available in existing buildings on the job site if they meet the above requirements and the use of them will not interfere with the progress of the work.

5.7.2. Quality and Use of. All materials and equipment shall be of good quality and new, except as otherwise provided in the Contract Documents. If required by the **Design Professional**, the **Contractor** shall furnish satisfactory evidence (including reports of required tests) as to the kind and quality of materials and equipment. All materials and equipment shall be applied, installed, connected, erected, used, cleaned, and conditioned in accordance with instructions of the applicable Supplier, except as otherwise provided in the Contract Documents.

5.7.3. Discrepancies or Defects. If the **Contractor** is unable to perform its Work because of discrepancies or defects in the work of the **City's** own forces or of a separate contractor, the **Contractor** shall immediately notify the **Design Professional** and the **City** in writing of the conditions that render unable to so perform. Failure to notify the **Design Professional** constitutes an acknowledgment and acceptance of the other work as being fit and proper for integration with the **Contractor's** Work except for latent or non-apparent defects and deficiencies in the other work.

5.8. Contractor's Management and Financial Statement Requirements. (Reference: M.G.L. c. 30, §39R)

5.8.1. The words defined herein shall have the meaning stated below whenever they appear in this Paragraph:

5.8.1.1. "Contractor" means any person, corporation, partnership, joint venture, sole proprietorship, or other entity awarded a contract pursuant to M.G.L. c.149, §44A-H or M.G.L. c. 30, §39M, inclusive.

5.8.1.2. "Contract" means any contract awarded or executed pursuant to M.G.L. c. 149, §44A-H or M.G.L. c. 30, §39M, which is for an amount or estimate amount that exceed the dollar amount set forth in M.G.L. c. 30, §39R.

5.8.1.3. "Records" means books of original entry, accounts, checks, bank statements and all other banking documents, correspondence, memoranda, invoices, computer printouts, tapes, discs, papers and other documents or transcribed information of any type, whether expressed in ordinary or machine language.

5.8.1.4. "Independent Certified Public Accountant" means a person duly registered in good standing and entitled to practice as a certified public accountant under the laws of the place of his/her residence or principal office and who is

in fact independent. In determining whether an accountant is independent with respect to a particular person, appropriate consideration should be given to all relationships between the accountant and that person or any affiliate thereof. Determination of an accountant's independence shall not be confined to the relationships existing in connection with the filing of reports with the City.

5.8.1.5. "Audit," when used in regard to financial statement, means an examination of records by an independent certified public accountant in accordance with generally accepted accounting principles and auditing standards for the purpose of expressing a certified opinion thereon, or, in the alternative, a qualified opinion or a declination to express an opinion for stated reasons.

5.8.1.6. "Accountant's Report," when used in regard to financial statements, means a document in which an independent certified accountant indicates the scope of the audit which s/he has made and sets forth his/her opinion regarding the financial statements taken as a whole with listing of noted exceptions and qualifications, or an assertion to the effect that an overall opinion cannot be expressed. When an overall opinion cannot be expressed the reason therefor shall be stated. An accountant's report shall include as part thereof a signed statement by the responsible corporate officer attesting that management has fully disclosed all material facts to the independent certified public accountant, and that the audited financial statement is a true and complete statement of the financial condition of the contractor.

5.8.1.7. "Management," when used herein, means the chief executive officers, partners, principals or other person or persons primarily responsible for the financial and operational policies and practices of the Contractor.

5.8.1.8. Accounting terms, unless otherwise defined herein shall have a meaning in accordance with generally accepted accounting principles and auditing standards.

5.8.2. The Contractor shall make, and keep for at least six (6) years after final payment, books, Records, and accounts that in reasonable detail accurately and fairly reflect the transactions and dispositions of the Contractor.

5.8.2.1 Federal Requirements: The Contractor shall permit the City, HUD and/or any other administering agency named herein, the Comptroller General of the United States, or any of their duly authorized representatives, to have access to any books, documents, papers, and records of the Contractor which are directly pertinent to a specific HUD program for the purpose of making audits, examinations, excerpts, and transcriptions.

5.8.3. Until the expiration of six (6) years after final payment, the Office of the Inspector General, and the Deputy Commissioner of the Division of Capital Asset Management shall have the right to examine any books, documents, papers or Records of the Contractor or of its Subcontractors that directly pertain to, and involve transactions relating to, the Contractor or its Subcontractors.

5.8.4. The Contractor shall describe any change in the method of maintaining Records or recording transactions which materially affect any statements filed with the City, including in its description the date of the change and reasons therefor, and shall accompany said description with a letter from the Contractor's Independent Certified Public Accountant approving or otherwise commenting on the changes.

5.8.5. The Contractor shall file a Statement of Management on internal accounting controls as set forth below prior to the execution of the Contract.

5.8.6. The Contractor shall file prior to the execution of the contract and shall continue to file annually, an Audited Financial Statement for the most recent completed fiscal year as set forth below.

5.8.7. The Contractor shall file with the City a Statement of Management as to whether the system of internal accounting controls of the Contractor and its subsidiaries reasonably assures that:

5.8.7.1. transactions are executed in accordance with Management's general and specific authorization;

5.8.7.2. transactions are recorded as necessary to permit preparation of financial statements in conformity with generally accepted accounting principles, and to maintain accountability for assets;

5.8.7.3. access to assets is permitted only in accordance with Management's general or specific authorization; and

5.8.7.4. the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action is taken with respect to any difference.

5.8.7.5. The Contractor shall also file with the City a statement prepared and signed by an Independent Certified Public Accountant stating that s/he has examined the Statement of Management on internal accounting controls, and expressing an opinion as to:

5.8.7.5.1. whether the representation of Management in response to this paragraph and paragraphs 5.8.2. through 5.8.6 above are consistent with the result of Management's evaluation of the system of internal accounting controls; and

5.8.7.5.2. whether such representations of Management are, in addition, reasonable with respect to transactions and assets in amounts which would be material when measured in relation to the applicant's financial statements.

5.8.8. The Contractor shall annually file with the Commissioner of the Division of Capital Asset Management during the term of the contract a financial statement prepared by an Independent Certified Public Accountant on the basis of an Audit by such accountant. The final statement filed shall include the date of final payment. All statements shall be accompanied by an accountant's report. Such statements shall be made available to the City upon request.

5.8.9. The City's Contracting Department, its authorized representative and agents and the HUD Representative for the Secretary shall, at all times have access to and be permitted to observe and review all work materials, equipment, payrolls, personnel records, employment conditions, material invoices, and other relevant data and records pertaining to this Contract, provided, however, that all instructions and approval with respect to the work will be given to the Contractor only by CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT) through its authorized representatives or agents. Records and statements required to be made, kept or filed under the provisions of this section shall not be public records as defined in G.L. 4, §7 or equivalent federal legislation. They shall not be made available to the public, but shall be available only to the governmental authorities named herein.

5.9. Taxes.

5.9.1 The Contractor shall pay all sales, consumer, use, and other similar taxes for the Work or portions thereof which are provided by the Contractor which are legally enacted when bids are received, whether or not yet effective or merely scheduled to go into effect. However, the Contractor shall not pay, and the City shall not reimburse or pay the Contractor for, any sales taxes for building supplies or materials for which an exemption is provided in M.G.L. c. 64H, §6(f). The City's tax exemption number to be used by the Contractor in this regard is E04-600-1414.

5.10. Permits, Licenses, and Fees.

5.10.1 Unless otherwise provided, the Contractor shall obtain and pay the fees for all permits, licenses, and inspections that are necessary for the proper execution and completion of the Work and which are customarily secured after execution of the Contract and which are legally required. All fees for permits, licenses, and inspections required by any City department shall be waived. Unless otherwise agreed by the Awarding Authority in writing, the Contractor shall, prior to commencement of the work, (i) meet with the City of Somerville Inspectional Services Department to determine what permits are needed for the work; (ii) obtain all such permits; and (iii) provide copies of such permits to the Awarding Authority. Permits shall include, without limitation, demolition, foundation, digsafe, and building permits; permits for removal, sealing up, or installation of utilities, including gas, electrical, water and sewer; and permits for obstructing public streets and sidewalks.

5.11. Notices Required By Statutes, Ordinances, Codes, Rules, Regulations, and Orders of the City.

5.11.1 The Contractor shall give notices required by statutes, ordinances, codes, rules, regulations, and orders of the City bearing on performance of the Work.

5.12. Additional Information from Design Professional.

5.12.1. The Contractor shall perform the Work in accordance with the Contract Documents and submittals approved pursuant to Article 4.

5.12.2. The Contractor shall give the Design Professional timely notice of any additional Plans, Specifications, or instructions required to define the Work in greater detail, or to permit the proper progress of the Work.

5.12.3. The Contractor shall not proceed with any Work not clearly and consistently defined in detail in the Contract Documents, but shall request additional drawings or instructions from the Design Professional as provided in the previous Paragraph. If the Contractor proceeds with such Work without obtaining further drawings, Specifications, or instructions, the Contractor shall correct Work incorrectly done at the Contractor's own expense.

5.13. "Or equal."

5.13.1. Requirements for Substitutions. (Reference: M.G.L. c. 30, §39M(b).) Where products or materials are prescribed by manufacturer name, trade name, or catalog reference, the words "or approved equal" shall be understood to follow. An item shall be considered equal to the item so named or described if, in the opinion of the Design Professional:

5.13.1.1. it is at least equal in quality, durability, appearance, strength, and design;

5.13.1.2. it performs at least equally the function imposed by the general design for the Work;

5.13.1.3. it conforms substantially, even with deviations, to the detailed requirements for the items as indicated by the Specifications.

5.13.2. Net Savings. No proposed substitution will be permitted unless the Contractor certifies that the proposed substitution will yield a net savings to the City and will not extend the Contract Time.

5.13.3. Contractor's Expense. Any structural or mechanical changes made necessary to accommodate substituted

equipment under this paragraph (including but not limited to engineering fees) shall be at the expense of the **Contractor** or **Subcontractor** responsible for the Work item.

5.13.3.1. Any additional cost, or any loss or damage arising from the substitution of any material or any method for those originally specified shall be borne by the **Contractor**, notwithstanding approval or acceptance of such substitution by the **City** or the **Design Professional**, unless such substitution was made at the written request or direction of the **City** or the **Design Professional**.

5.13.3.2. All data to be provided by the **Contractor** in support of any proposed "or equal" or substitute item will be at the **Contractor's** expense.

5.13.4. Meeting Requirements. The **Contractor** shall be responsible for determining that all materials furnished for the Work meet all requirements of the Contract Documents. The **Design Professional** may require the **Contractor** to produce reasonable evidence that a material meets such requirements, such as certified reports of past tests by qualified testing laboratories, reports of studies by qualified experts, or other evidence which, in the opinion of the **Design Professional**, would lead to a reasonable certainty that any material used, or proposed to be used, in the Work meets the requirements of the Contract Documents. All such data shall be furnished at the **Contractor's** expense. This provision shall not require the **Contractor** to pay for periodic testing of different batches of the same material, unless such testing is specifically required by the Contract Documents to be performed at the **Contractor's** expense.

5.13.5. Named Manufacturer's Product. In all cases in which a manufacturer's name, trade name, or other proprietary designation is used in connection with materials or articles to be furnished under this Contract, whether or not the phrase "or equal" is used after such name, the **Contractor** shall furnish the product of the name manufacturer(s) without substitution, unless a written request for a substitute has been submitted by the **Contractor** and approved in writing by the **Design Professional** as provided in the following paragraph.

5.13.6. Deviations. If the **Contractor** proposes to use a material which while suitable for the intended use, deviates in any way from the detailed requirements of the Contract Documents, the **Contractor** shall inform the **Design Professional** in writing of the nature of such deviations at the time the material is submitted for approval and shall request written approval of the deviation from the requirements of the Contract Documents.

5.13.7. Rejection of Deviations. In requesting approval of deviations or substitutions, the **Contractor** shall provide, upon request, evidence leading to a reasonable certainty that the proposed substitution or deviation will provide a quality of result at least equal to that otherwise attainable. If, in the opinion of the **Design Professional**, the evidence presented by the **Contractor** does not provide a sufficient basis for such reasonable certainty, the **Design Professional** may reject such substitution or deviation without further investigation.

5.13.8. Consistent Character and Quality of Design. The Contract Documents are intended to produce a building of consistent character and quality of design. All components of the building including visible items of mechanical and electrical equipment have been selected to have a coordinated design in relation to the overall appearance of the Project. The **Design Professional** shall judge the design and appearance of proposed substitutes on the basis of their suitability in relation to the overall design of the Project, as well as for their intrinsic merits. The **Design Professional** will not approve as equal to materials specified proposed substitutes that, in the **Design Professional's** opinion, would be out of character, obtrusive, or otherwise inconsistent with the character or quality of design of the Project. In order to permit coordinated design of color and finishes the **Contractor** shall, if required by the **Design Professional**, furnish the substituted material in any color, finish, texture, or pattern which would have been available from the manufacturer originally specified, at no additional cost to the **City**.

5.13.9. Warranty. The warranties provided herein shall be in addition to and not in limitation of any other warranty required by the Contract Documents or otherwise prescribed by law.

5.13.10. Design Professional's Approval. The **Design Professional** will be the sole judge of acceptability. No "or equal" or substitute will be ordered, installed, or utilized without the **Design Professional's** prior written acceptance which will be evidenced by either a Change Order or an approved Shop Drawing. The **City** may require the **Contractor** to furnish at the **Contractor's** expense a special performance guarantee or other surety with respect to any "or equal" or substitute. The **Design Professional** will record the time required by the **Design Professional** and its consultants in evaluating substitutes proposed or submitted by the **Contractor** and in making changes in the Contract Documents (or in the provisions of any other direct contract with the **City** for work on the Project) occasioned thereby. Whether or not the **Design Professional** accepts a substitute item so proposed or submitted by the **Contractor**, the **Contractor** shall reimburse the **City** for the charges of the **Design Professional** and its consultants for evaluating each such proposed substitute item.

5.14. Substitute Construction Methods or Procedures.

5.14.1 If a specific means, method, technique, sequence, or procedure of construction is shown or indicated in and expressly required by the Contract Documents, the **Contractor** may furnish or utilize a substitute means, method, technique, sequence or procedure of construction acceptable to the **Design Professional**. The **Contractor** shall submit sufficient information to allow the **Design Professional**, in the **Design Professional's** sole discretion, to determine whether the substitute

proposed is equivalent to that expressly called for by the Contract Documents.

5.15. Contractor's Progress Schedule.

5.15.1. Before Starting Construction. Within ten (10) days after the date of the Notice to Proceed, the **Contractor** shall submit to the **Design Professional** for review:

5.15.1.1. a preliminary progress schedule indicating the times (number of days or dates) for starting and completing the various stages of the Work;

5.15.1.2. a preliminary schedule of Shop Drawing and Sample submittals which will list each required submittal and the times for submitting, reviewing, and processing such submittal; and

5.15.1.3. a refined schedule of values for all of the Work which will include quantities and prices of items aggregating the Contract Sum and will subdivide the Work into component parts in sufficient detail to serve as the basis for progress payments during construction. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work.

5.15.2. Review of Progress Schedule. At least ten (10) days prior to the commencement of construction, the **Design Professional**, the **Contractor**, and any other appropriate persons will meet to review and discuss the acceptability to the **Design Professional** of the progress schedule. The **Contractor** will have an additional ten (10) days to make corrections and adjustments and to complete and resubmit the schedule. No progress payment shall be made to the **Contractor** until the schedule is submitted to and found acceptable by the **Design Professional** as provided below.

5.15.3. Acceptability of Progress Schedule. The progress schedule will be acceptable to the **Design Professional** if, according to the **Design Professional**, it provides an orderly progression of the Work to completion within any specified time frame, but such acceptance will neither impose on the **Design Professional** responsibility for the sequencing, scheduling, or progress of the Work nor interfere with or relieve the **Contractor** from the **Contractor's** full responsibility therefore. The **Contractor's** schedule of Submittals must be acceptable to the **Design Professional** in providing a workable arrangement for reviewing and processing the required Submittals. The **Contractor's** schedule of values must be acceptable to the **Design Professional** as to form and substance.

5.15.4. Sepia and Copies. After the **Design Professional** has approved the schedule, the **Contractor** shall submit to the **Design Professional** one (1) sepia and four (4) copies bearing the **Contractor's** stamp of approval as a representation to the **City** that the **Contractor** has determined or verified all data on that progress schedule and that the **Contractor**, the Subcontractors and Suppliers have reviewed and coordinated the sequences in that progress schedule with the requirements of the Work.

5.15.5. Adjustment of Schedule. The **Contractor** shall adhere to the established progress schedule which may be adjusted from time to time as follows: the **Contractor** shall submit to the **Design Professional** for acceptance proposed adjustments in the progress schedule that will not change the Contract Time. Such adjustments will conform generally to the progress schedule then in effect and will comply with any provisions of the requirements applicable thereto.

5.15.6. During Construction. The **Contractor** shall submit monthly progress schedules to the **Design Professional**. The schedules shall stay current with the **Contractor's** approach to the Work remaining.

5.15.7. Schedule of Submittals. The **Contractor** shall prepare and keep current, for the **Design Professional's** approval, a schedule of Submittals that is coordinated with the **Contractor's** construction schedule and allows the **Design Professional** reasonable time to review Submittals.

5.16. Project Coordination.

5.16.1. In General. The **Contractor** shall be responsible for the proper coordination of the Work of all of the trades.

5.16.2. Coordination with Subcontractors. The **Contractor** shall coordinate the work of each Subcontractor with the Work of every other Subcontractor whose Work affects the other.

5.16.3. Coordination with the City's Own Forces or Separate Contractors. The **Contractor** shall coordinate its operations with those of the **City's** own forces or separate contractors. The **Contractor** shall provide the **City's** own forces and separate contractors a reasonable opportunity for the handling, unloading and storage of their materials and equipment and execution of their work. The **Contractor** shall connect and coordinate its Work with theirs.

5.16.4. Coordination with Utility Companies. The **Contractor** shall coordinate its operations with all the appropriate utility companies to assure that the utilities required on the Project are available and functioning properly pursuant to the requirements of the Contract Documents.

5.17. Project Photographs.

5.17.1. In General. The **Contractor** shall take, at its own expense, interior and exterior photographs at the site, from different vantages as directed by the **Design Professional** or the **City**, before beginning any Work and thereafter, at a minimum, on the first work day of each month until final completion of the Work, including final Site photos. Photos shall be taken of any

Work that will be buried or concealed while the Work is still exposed. The photographs shall be taken by a skilled commercial photographer. The number of photographs required shall be at the discretion of the City or the Design Professional. One aerial photo shall be required a) prior to commencement of the work and b) at the completion of the work. See Section 01320 – Construction Progress Documentation.

5.17.2. Prints and Digital Media. Within fourteen (14) days after the photographs have been taken, the Contractor shall cause prints to be made and delivered to the City and the Design Professional. All photographs shall be 8” x 10”. Each print shall state the date of the photograph, the name of the Project, the description of the view and the name and address of the photographer. The City shall receive one glossy print of each photo as well as all prints in digital form on compact disc. The Design Professional shall receive one glossy print.

5.17.3. Failure to Comply. Should the Contractor fail to adhere to any requirement set forth in the previous two paragraphs, the City may have the photographs taken at the Contractor's expense or receive a set-off against the Contractor's next application for payment.

5.18. Record Documents and Samples at the Site.

5.18.1 The Contractor shall maintain in a safe place at the site one record copy of all Plans, Specifications, Modifications, Change Orders, Construction Change Directives, Field Orders and written interpretations and clarifications in good order and annotated to show all changes made during construction. These record documents together with all approved Samples and a counterpart of all approved Shop Drawings will be available to the Design Professional for reference. Upon completion of the Work, these record documents, Samples and Shop Drawings will be delivered by the Contractor to the Design Professional for the City.

5.19. Submittals.

5.19.1. Purpose. The purpose of Submittals is to demonstrate for those portions of the Work for which Submittals are required the way the Contractor proposes to conform to the information given and the design concept expressed in the Contract Documents.

5.19.2. Submittal Procedure. Within ten (10) days from the Notice to Proceed, the Contractor shall submit to the Design Professional a completed Submittals schedule. The Contractor shall review, approve, and submit to the Design Professional Submittals required by the Contract Documents with reasonable promptness and in such sequence as to cause no delay in the Work or in the activities of the City or of separate contractors. Submittals made by the Contractor that are not required by the Contract Documents may be returned without action. The schedules shall be updated and resubmitted each month. All Submittals will be identified as the Design Professional may require and in the number specified in the General Requirements. The data shown on the Shop Drawings will be complete with respect to quantities, dimensions, specified performance and design criteria, materials, and similar data to show the Design Professional the materials and equipment that the Contractor proposes to provide and to enable the Design Professional to review the information for the limited purposes stated below.

5.19.3. Samples. The Contractor shall also submit Samples to the Design Professional for review and approval in accordance with said accepted schedule of Submittals. Each Sample will be identified clearly as to material, Supplier, pertinent data such as catalog numbers and the use for which it is intended and otherwise as the Design Professional may require to enable the Design Professional to review the Submittal for the limited purposed stated below. The numbers of each Sample to be submitted will be as specified in the Specifications. Unless otherwise specified in the Specifications, three (3) specimens of each Sample shall be submitted.

5.19.3.1. The Samples shall be of sufficient size to permit proper evaluation of material. Where variations in color or other characteristics are to be expected, samples showing the minimum range of variation shall be submitted. Materials exceeding the range of variation of the approved Samples will not be approved on the Work.

5.19.3.2. All costs associated with delivery of Samples will be paid by the Contractor.

5.19.4. Contractor's Verifications. Before submitting each Submittal, the Contractor shall have determined and verified:

5.19.4.1. all field measurements, quantities, dimensions specified performance criteria, installation requirements, materials, catalog numbers, and similar information with respect thereto;

5.19.4.2. all materials with respect to intended use, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work; and

5.19.4.3. all information relative to the Contractor's sole responsibilities in respect of means, methods, techniques, sequences, and procedures of construction and safety precautions and programs incident thereto.

5.19.5. Contractor's Representations. By approving and providing Submittals, the Contractor thereby represents that the Contractor has determined and verified all dimensions, quantities, field dimensions, relations to existing Work, coordination with Work to be installed later, coordination with information on previously accepted Submittals and verification of

compliance with all the requirements of the Contract Documents. The accuracy of all such information is the responsibility of the Contractor. In reviewing Submittals, the Design Professional shall be entitled to rely upon the Contractor's representation that such information is correct and accurate.

5.19.6. Coordination. The Contractor shall also have reviewed and coordinated each Submittal with other Submittals and with the requirements of the Work and the Contract Documents.

5.19.7. Stamp or Specific Written Indication. Each Submittal will bear a stamp or specific written indication that the Contractor has satisfied the Contractor's obligations under the Contract Documents with respect to the Contractor's review and approval of that Submittal.

5.19.8. Written Notice of Variations. At the time of each Submittal, the Contractor shall give the Design Professional specific written notice of such variations, if any, that the Submittal may have from the requirements of the Contract Documents. Such notice is to be in a written communication separate from the Submittal. Moreover, the Contractor shall make a specific notation on each Submittal to the Design Professional for review and approval of each such variation.

5.19.9. Review and Approval by the Design Professional. The Contractor shall perform no portion of the Work requiring a Submittal until the respective Submittal has been approved by the Design Professional. Such Work shall be in accordance with approved Submittals.

5.19.9.1. The Design Professional will review and approve Submittals in accordance with the schedule of Submittals accepted by the Design Professional as required above. The Design Professional's review and approval will be only to determine if the items covered by the Submittals will, after installation or incorporation in the Work, conform to the information given in the Contract Documents and be compatible with the design concept of the completed Project as a functioning whole as indicated in the Contract Documents. The Design Professional's review and approval will not extend to means, method, technique, sequences, or procedures of construction (except where a particular means, method, technique, sequences or procedures of construction is specifically and expressly called for by the Contract Documents) or to safety precautions or programs incident thereto. The review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.

5.19.10.Deviations. The Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Design Professional's approval of Submittals unless the Contractor has specifically informed the Design Professional in writing of such deviation at the time of Submittal and the Design Professional has given written approval to the specific deviation. The Contractor shall not be relieved of responsibility for errors or omissions in Submittals by the Design Professional's approval thereof.

5.19.11.Revisions. The Contractor shall make corrections required by the Design Professional and shall return the required number of corrected copies of Submittals and submit as required new Submittals for review and approval. The Contractor shall direct specific attention, in writing or on resubmitted Submittals, to revisions other than those requested by the Design Professional on previous Submittals. Unless such written notice has been given, the Design Professional's approval of a resubmitted Submittal shall not constitute approval of any changes not requested on the prior Submittal.

5.19.12.Related Work. Where a Submittal is required by the Contract Documents or the schedule of Submittals accepted by the Design Professional, any related Work performed prior to the Design Professional's review and approval of the pertinent Submittal will be at the sole expense and responsibility of the Contractor.

5.19.13.Informational Submittals. Informational Submittals upon which the Design Professional is not expected to take responsive action may be so identified in the Contract Documents.

5.19.14.Certification. When professional certification of performance criteria of materials, systems or equipment is required by the Contract Documents, the City shall be entitled to rely upon such certifications, and neither the City nor the Design Professional shall be expected to make any independent examination with respect thereto.

5.20. Continuing the Work.

5.20.1. The Contractor shall carry on the Work and adhere to the progress schedule during all disputes or disagreements with the City. No Work shall be delayed or postponed pending resolution of any disputes or disagreements, except as otherwise provided herein or as the City and the Contractor may agree in writing.

5.21. Use of Site; Access to Work.

5.21.1. The right of possession of the premises and the improvements made thereon by the Contractor shall remain at all times in the City. The Contractor's right to entry and use thereof arises solely from the permission granted by the City under the Contract Documents. The Contractor shall confine the Contractor's apparatus, the storage of materials, and the operations of the Contractor's workers to limits indicated by law, ordinance, the Contract Documents and permits and/or directions of the Design Professional and shall not unreasonably encumber the premises with the Contractor's materials. The City shall not be liable to the Contractor, the Subcontractors, Suppliers, or anyone else with respect to the conditions of the premises, except for a condition caused directly and solely by the negligence of the City.

5.21.2. At all times, the City and the Design Professional shall have access to the Work.

5.22. Protection of Persons and Property.

5.22.1. In General. The Contractor shall be responsible for initiating, maintaining, and supervising all health and safety precautions and programs in connection with the performance of the Contract. The Contractor is responsible for the implementation of all Federal, State, and local health and safety requirements. The Contractor shall be responsible for all damages to persons or property that occur as a result of the Contractor's fault or negligence in connection with the prosecution of the work and shall be responsible for the proper care and protection of all materials delivered and work performed until completion and final acceptance by CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT).

The Contractor shall provide sufficient competent watchmen, both day and night, including Saturdays, Sundays and holidays, as necessary, from the time the work is commenced until final completion and acceptance. Sufficient lighting shall be provided to aid in the prevention of injury to passersby or vandalism to the property or other illegal activities.

The Contractor shall avoid damage as a result of its operations to existing sidewalks, streets, curbs, pavements, utilities (except those which are to be replaced or removed), adjoining property, etc. and the Contractor shall at its own expense completely repair any damage thereto caused by its operations.

The Contractor shall shore up, brace, underpin, secure, and protect as may be necessary, all foundations and other parts of existing structure adjacent to, adjoining, and in the vicinity of the site, which may be in any way affected by the excavations or other operations connected with the construction of the improvements embraced in this Contract. The Contractor shall be responsible for the giving of any and all required notices to any adjoining or adjacent property owner or other party before the commencement of work. The Contractor shall indemnify and save harmless the City of Somerville and CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT) from any liability for damages on account of settlement or the loss of lateral support of adjoining property resulting from the Contractor's failure to comply with this section.

5.22.1.1. If this contract is in excess of \$100,000 and is federally funded, the Contractor shall comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401 et seq.) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251 et seq.)

5.22.1.2. If this contract is in excess of \$2,000 and is federally funded, the Contractor shall comply with Sections 103 and 107 of the Contract Work Hours Safety Standards Acts (40 U.S.C. 327-333), as supplemented by Department of Labor regulations at 29 CFR part 5. To that end, the Contractor shall compute the wages of every mechanic and laborer on the basis of a standard workweek of 40 hours. Work in excess of the standard workweek is permissible, provided that the worker is compensated at a rate of not less than 1-1/2 times the basic rate of pay for all hours worked in excess of 40 hours in the workweek. The Contractor shall ensure that no laborer or mechanic is required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous.

5.22.2. The Contractor shall take reasonable precautions for safety of, and shall provide reasonable protection to prevent damage, injury, or loss to:

5.22.2.1. employees on the site and other persons who may be affected thereby;

5.22.2.2. the Work, materials, and equipment to be incorporated therein, whether in storage on or off the site, under the care, custody or control of the Contractor, Subcontractors, or Sub-subcontractors;

5.22.2.3. other property at the site or adjacent or in close proximity thereto, such as trees, shrubs, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation, or replacement in the course of construction; and

5.22.2.4. any other property of the City, whether or not forming part of the Work, located at the site or adjacent thereto in areas to which the Contractor has access.

5.22.3. Notices and Compliance. The Contractor shall give notices and comply in all other respects with applicable laws, ordinances, rules, regulations, codes, and lawful orders of public authorities bearing on the safety of persons or property or their protection from damage, injury, or loss. The Contractor shall notify owners of adjacent and nearby properties of underground facilities and utility owners when prosecution of the Work may affect them and shall cooperate with them in the protection, removal, relocation, and replacement of their property.

5.22.3.1. Should the Contractor in the execution of his work uncover or discover utility service lines not indicated on the relevant drawings, or that do not show signs of singular service to any existing structures being demolished, the Contractor shall cease work in that area immediately and promptly notify the Public Works Department. Within forty-eight hours, the Public Works Department will inspect the site and issue written instructions to the Contractor. The Contractor shall proceed

with only after such written instructions have been received and shall proceed in full compliance with such instructions. The above mentioned situation or similar circumstances and/or modification if any, shall not relieve the Contractor from his responsibilities in this Contract and also it is without prejudice to any and all rights of CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT) covering this said contract and surety or bonds.

5.22.4. Erection and Maintenance of Safeguards. The Contractor shall erect and maintain, as required by existing conditions and the terms of the Contract, reasonable safeguards for safety and protection, including posting danger signs and other warnings against hazards, promulgating safety regulations, and notifying owners and users of adjacent and nearby sites and utilities.

5.22.5. Hazardous Materials and Equipment. When use or storage of explosives or other hazardous materials or equipment or unusual methods are necessary for execution of the Work, the Contractor shall exercise utmost care and carry on such activities under the supervision of properly qualified personnel.

5.22.6. Damage to Property. The Contractor shall promptly remedy damage and loss to property referred to above. If the damage or loss is due in whole or in part to the Contractor's failure to take the precautions required herein, the Contractor shall bear the cost, subject to any reimbursement to which the Contractor is entitled under property insurance required by the Contract Documents. The Contractor shall be fully and solely responsible for all Work and other operations carried out on adjacent properties. The insurance required under Article 8 shall cover such Work or operations, and the Contractor shall indemnify and defend the City, the Design Professional, and the owners of such adjacent or nearby properties from and against all claims, suits, losses, or costs arising out of such Work or operations.

5.22.7. Fire Protection Equipment and Services. The Contractor shall provide and maintain in good operating condition suitable and adequate fire protection equipment and services and shall comply with all reasonable recommendations regarding fire protection made by the representatives of the fire insurance company carrying insurance on the Work or by the local fire chief or fire marshal. The area within the site limits shall be kept orderly and clean and all combustible rubbish shall be promptly removed from the site.

5.22.8. Protection of Excavations, Trenches, etc. The Contractor shall at all times protect excavations, trenches, buildings and materials from rain water, ground water, backup or leakage of sewers, drains and other piping, and from water of any other origin and shall remove promptly any accumulation of water. The Contractor shall provide and operate all pumps, piping, and other equipment necessary to this end.

5.22.9. Snow and Ice Removal. The Contractor shall remove snow and ice that might result in damage or delay.

5.22.10. Safety Representative. The Contractor shall designate a qualified and experienced safety representative at the site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.

5.22.11. Weather Protection. (Reference: M.G.L. c. 149, §44F(1).) The Contractor shall install weather protection and furnish adequate heat in the protected area from November 1 through March 31. In the event of temporary suspension of work, during inclement weather, the Contractor will carefully protect and will cause his subcontractors to carefully protect all work and materials against damage or injury from the weather. If, in the opinion of the Design Professional or CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT), any work or materials shall have been damaged or injured by reason of failure on the part of the Contractor or any of his Subcontractors so to protect the work, such work or materials shall be removed and replaced at the expense of the Contractor. These Specifications are not to be construed as requiring enclosures or heat for operations that are not economically feasible to protect in the judgment of CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT). Included in the preceding category, without limitation, are such items as site work, excavation, pile driving, steel erection, erection of certain "exterior" wall panels, roofing, and similar operation:

(1) "WEATHER PROTECTION" shall mean the temporary protection of that work adversely affected by moisture, wind and cold, by covering, enclosing and/or heating.

This protection shall provide adequate working areas during the months of November through March as determined by the Design Professional and consistent with the approved construction schedule to permit the continuous progress of all work necessary to maintain an orderly and efficient sequence of construction operations. The General Contractor shall furnish and install all "Weather Protection" material and be responsible for all costs, including heating required to maintain a minimum temperature of 40 degrees F, at the working surface. This provision does not supersede any specific requirements for methods of construction, curing of materials or the applicable General Conditions set forth in the Contract Articles with added regard to performance obligations of the Contractor.

(2) Within 30 calendar days after his award of contract, the General Contractor shall submit in writing to CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT) for approval, three copies of his proposed methods for "Weather Protection".

(3) Installation of weather protection and heating devices shall comply with all safety regulations including provisions for

adequate ventilation and fire protection devices. Heating devices which may cause damage to finish surfaces shall not be used.

(4) The General Contractor shall furnish and install one accurate Fahrenheit thermometer at each work area as designated by the Designer. However, one additional accurate Fahrenheit thermometer shall be provided for every 2,000 square feet of floor space where the work areas exceed 2,000 square feet.

5.22.12. Security. The Contractor shall provide, within the Contract Sum, a sufficient number of security personnel at the Site at all times when the Contractor's personnel are not present, from commencement of the Work until Substantial Completion to assure that the Site, the facility, and the Work, and all materials and equipment stored at the Site are fully and completely protected against loss or damage due to vandalism, theft, or malicious mischief. If the Contractor elects, in addition, to use guard dogs for this purpose, each dog shall at all times be accompanied by an adult handler. If the Contractor fails to comply with the requirements of this paragraph, then the City may provide appropriate security and charge the cost thereof to the Contractor. The City's provision of such security, or failure to do so, shall not relieve the Contractor of its responsibility to pay for loss or damage due to vandalism, theft, or malicious mischief at the Site.

5.22.13. Hazard Communication Programs. The Contractor shall be responsible for coordinating any exchange of material safety data sheets or other hazard communications information required to be made available to or exchanged between or among employers at the site in accordance with laws, codes and regulations.

5.22.14. Noise Pollution Control. The Contractor shall comply with all applicable provisions of Somerville Municipal Code §9-109.

5.23. Cutting and Patching.

5.23.1. In General. Unless otherwise provided in the Contract Documents, the Contractor shall be responsible for cutting, fitting, or patching required to complete the Work or to make its parts fit together properly, including the work of the City or of separate contractors.

5.23.2. Damage to Work of City or of Separate Contractor. The Contractor shall not damage or endanger a portion of the Work or fully or partially completed construction of the City or separate contractors by cutting, patching, or otherwise altering such construction, or by excavation. The Contractor shall not cut or otherwise alter such construction by the City or a separate contractor except with prior written consent of the City and of such separate contractor; such consent shall not be unreasonably withheld. The Contractor shall not unreasonably withhold from the City or a separate contractor the Contractor's consent to cutting or otherwise altering the Work.

5.23.3. Damage Caused by Contractor. Should the Contractor cause damage to the work or property of any separate contractor at the Site, or should any claim arising out of the Contractor's performance of Work at the Site be made by any separate contractor against the Contractor, the City, the Design Professional, or any of the Design Professional's consultants, the Contractor shall promptly attempt to settle with such other contractor by agreement, or to otherwise resolve the dispute by arbitration or at law. The Contractor shall, to the fullest extent permitted by laws and regulations, indemnify and hold harmless the City, the Design Professional, and the Design Professional's consultants from and against all claims, damages, losses and expenses (including, but not limited to, fees of the Design Professional, the Design Professional's consultants, attorneys, and other professionals, and court and arbitration or mediation costs) arising directly, indirectly or consequentially out of any action, legal or equitable, brought by any separate contractor against the City, the Design Professional, or any of the Design Professional's consultants, to the extent based on a claim arising out of the Contractor's performance of the Work. Should a separate contractor cause damage to the Work or property of the Contractor or should the performance of work by any separate contractor at the site give rise to any other claim, the Contractor shall not institute any action, legal or equitable, against the City, the Design Professional, or any of the Design Professional's consultants, or permit any action against any of them to be maintained and continued in its name or for its benefit in any court or before any arbiter which seeks to impose liability on or to recover damages from the City, the Design Professional, or any of the Design Professional's consultants, on account of any such damage or claim. If the Contractor delays at any time in performing or furnishing Work by any act or neglect of a separate contractor and the City and the Contractor are unable to agree as to the extent of any adjustment in the Contract Time attributable thereto, the Contractor may make a claim for an extension of time in accordance with Article 16. An extension of the Contract Time shall be the Contractor's exclusive remedy with respect to the City, the Design Professional, and the Design Professional's consultants, for any delay, disruption, interference, or hindrance caused by any separate contractor.

5.24. Cleaning Up.

5.24.1. During the progress of the Work, the Contractor shall keep the premises and surrounding area free from accumulation of waste materials and rubbish caused by operations under the Contract or other debris. At the completion of the Work, the Contractor shall remove from and about the Project all waste materials, rubbish, and debris, and the Contractor's tools, construction equipment, machinery, and surplus materials. Surplus materials to be provided to the City by specifications shall be stored in a clean, safe and secure area as directed by the City. The Contractor shall leave the site clean and ready for

occupancy by the City at Substantial Completion of the Work. Immediately prior to the Design Professional's inspection for Substantial Completion, the Contractor shall completely clean the premises. Concrete and ceramic surfaces shall be cleaned and washed. Resilient coverings shall be cleaned, waxed and buffed. Woodwork shall be dusted and cleaned. Sash, fixtures and equipment shall be thoroughly cleaned. Stains, spots, dust, marks and smears shall be removed from all surfaces. Hardware and all metal surfaces shall be cleaned and polished. Glass and plastic surfaces shall be thoroughly cleaned by professional window cleaners. All damaged, broken or scratched glass or plastic shall be replaced by the Contractor at the Contractor's expense. The Contractor shall restore to original condition all property not designated for alteration by the Contract Documents.

5.24.2. If the Contractor fails to clean up as provided herein, the City may do so and charge the cost thereof to the Contractor.

5.25. Royalties and Patents.

5.25.1 The Contractor shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product, or device which is the subject of patent rights or copyrights held by others. To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless the City and the Design Professional from and against all claims, costs, losses, and damages arising out of or resulting from any infringement of patent rights or copyrights incident to the use in the performance of the work or resulting from the incorporation in the work of any invention, design, process, product, or device not specified in the Contract Documents.

5.26. Contractor's Obligation to Perform.

5.26.1. The Contractor's obligation to perform and complete the Work in accordance with the Contract Documents is absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents or a release of the Contractor's obligation to perform the Work in accordance with the Contract Documents:

- 5.26.1.1.** observations by the Design Professional;
- 5.26.1.2.** recommendation of any progress or final payment by the Design Professional;
- 5.26.1.3.** the issuance of a certificate of Substantial Completion or any payment by the City to the Contractor under the Contract Documents;
- 5.26.1.4.** use or occupancy of the Work, Project, or Site, or any part thereof, by the City;
- 5.26.1.5.** any acceptance by the City or any failure to do so;
- 5.26.1.6.** any review and approval of a Shop Drawing or Sample submittal or the issuance of a notice of acceptance by the Design Professional;
- 5.26.1.7.** any inspection, test, or approval by others; or
- 5.26.1.8.** any correction of defective Work by the City.

5.27. Indemnification; and Covenant Not To Sue.

5.27.1. To the fullest extent permitted by law, the Contractor shall assume the defense of, indemnify and hold harmless the City, the Design Professional, the Design Professional's consultants, and agents and employees of any of them, from and against claims, suits, causes of action, demands, liabilities, damages, losses, and expenses, including, but not limited, to attorneys' fees, arising out of or resulting from performance of the Work, provided that such claim, damage, loss, or expense is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself) including loss of use resulting therefrom, caused in whole or in part by alleged negligent acts or omissions of the Contractor, a Subcontractor, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, regardless of whether or not such claim, damage, loss, or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this paragraph.

5.27.2. In claims against any person or entity indemnified under the foregoing paragraph by an employee of the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, the indemnification obligation under the foregoing paragraph shall not be limited by a limitation on the amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under Workers' Compensation laws, disability benefit acts or other employee benefit acts.

5.27.3. The obligations of the Contractor in this Article shall not extend to the liability of the Design Professional, the Design Professional's consultants, and agents or employees of any of them arising out of (1) the preparation of maps, Plans, opinions, reports, surveys, Change Orders, designs, or Specifications, or (2) directions or instructions given by the Design Professional, the Design Professional's consultants and agents or employees of any of them, provided such instructions or directions are the primary cause of the injury or damage.

5.27.4. The Contractor, or any successor, assign, or subrogee of the Contractor agrees not to bring any civil suit,

action, or other proceeding in law, equity or arbitration against the **Design Professional**, or the officers, employees, agents, or consultants of the **Design Professional**, for the enforcement of any action which the **Contractor** may have arising out of or in any manner connected with the Work. The **Contractor** shall assure that this covenant not to sue is contained in all subcontracts and sub-subcontracts of every tier and shall assure its enforcement. The **Design Professional**, its officers, employees, agents, and consultants are intended third-party beneficiaries of this covenant not to sue, and are entitled to enforce this covenant in law or equity.

5.28. Survival of Obligations.

5.28.1 All representations, indemnifications, warranties, and guarantees made in, required by or given in accordance with the Contract Documents, as well as all continuing obligations indicated in the Contract Documents, will survive final payment, completion and acceptance of the Work and termination or completion of the Contract.

**ARTICLE 6
SUBCONTRACTORS**

6.1 Use of Subcontractors.

The **Contractor** shall use the Subcontractors named in the **Contractor's** Bid. The Contractor shall not award any work to any Subcontractor without prior written approval of the CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT). The Contractor shall not award any work to any subcontractor without prior written approval of CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT), which approval will not be given until the Contractor submits a written approval statement concerning the proposed award to the subcontractor, which statement shall contain such information as CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT) may require. All subcontracts subject to Mass. General laws, Chapter 149, Sections 44A-J, shall comply with the filed sub-bid requirements of that statute. The Contractor shall be as fully responsible for the acts and omissions of his subcontractors, and of persons either directly or indirectly employed by them, as he is for the acts and omissions of persons directly employed by him. The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work to bind subcontractors to the Contractor by the Terms of the General Conditions and other contract documents insofar as applicable to the work of subcontractors and to give the Contractor the same power as regards terminating any subcontract that CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT) may exercise over the Contractor under any provision of the contract documents. Nothing contained in this contract shall create any contractual relation between any subcontractor and CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT).

6.2 Substitution of Subcontractors.

6.2.1 The **Contractor** shall not substitute another Subcontractor therefor without notice to the **City** and the **City's** prior written consent of such substitution.

6.3 Names of Subcontractors.

6.3.1 Upon execution of the Contract with the **City**, the **Contractor** shall provide in writing to the **City**, through the **Design Professional**, the names, addresses, telephone numbers, and fax numbers of all persons proposed for each principal portion of the Work.

6.4. Objections to Subcontractors.

6.4.1 The **Contractor** shall not use any Subcontractor against whom the **City** has a reasonable objection. The **Contractor** shall not be required to contract with any person or entity against whom it has a reasonable objection.

6.5. Form of the Subcontract.

6.5.1 All Work performed by a Subcontractor shall be through an appropriate subcontract. The form of subcontract shall be submitted to the **City** for its approval, which shall not be unreasonably withheld or delayed.

6.6. Content of the Subcontract.

6.6.1. In addition to all statutorily mandated provisions and provisions required elsewhere in the Contract Documents, each subcontract shall expressly provide that:

6.6.1.1. Each subcontract agreement for a portion of the Work is assigned by the **Contractor** to the **City** provided that:

6.6.1.1.1. the assignment is effective only after termination of the Contract by the **City** or the

Contractor and only for those subcontract agreements which the **City** accepts by notifying the Subcontractor in writing; and

6.6.1.1.2. the assignment is subject to the prior rights of the surety, if any, obligated under bond relating to the Contract.

6.6.1.2. Each Subcontractor is bound by the requirements of the Contract Documents for the express benefit of the **City**.

6.6.1.3. Each Subcontractor shall assume toward the **Contractor** all the obligations that the **Contractor** assumes toward the **City** and the **Design Professional**, unless otherwise provided by law.

**ARTICLE 7
PERFORMANCE AND PAYMENT BONDS**

7.1. Form of Bonds.

7.1.1 The performance and labor and material or payment bonds shall be in the form required by the **City**, copies of which are included in the Project Manual. The **City** reserves the right to reject any bond that does not conform to the **City's** requirements.

7.2. Furnished by the Contractor. (Reference: M.G.L. c. 30, §39M(c); M.G.L. c. 149, §29).

7.2.1 The **Contractor** shall furnish a performance bond and a labor and materials or payment bond, each with a surety company qualified to do business under the laws of the Commonwealth and satisfactory to the **City** and each in the sum of the Contract Sum, the premiums for which are to be paid by the **Contractor** and are included in the Contract Sum. The bonds shall remain in effect until final payment is made. The sum of the performance bond shall increase each time the Contract Sum is increased as a result of a Change Order.

7.3. Submission to the City.

7.3.1 The **Contractor** must submit the performance and a labor and materials or payment bonds to the **City** upon the **Contractor's** execution of the Agreement.

**ARTICLE 8
INSURANCE REQUIREMENTS**

8.1 Insurance Certificates.

8.1.1 Prior to starting work on this project, the contractor shall deposit with the **City**, certificates from insurers clearly stating that the required insurance policies have been issued to the **Contractor** and will remain in effect during the time period required to complete this contract. ACCORD forms will not be accepted. The certificates must be in a form satisfactory to the **City**. The insurance shall include all major divisions of coverage, and shall be on a comprehensive general basis including: Premises and Operations (including X-C-U), Owners and Contractors Protective, Products and Completed Operations, Owned, Non-owned or Hired and/or Leased Motor Vehicles. Such insurance shall be written for not less than any limits of liability, required by law or the following limits, whichever are greater.

8.2 Minimum Coverages. The **Contractor** shall possess and maintain throughout the contract period/project, insurance in the kinds and amounts as stated in the Specification included in Appendix C of this Agreement. The **Contractor** may purchase and maintain excess liability insurance in the in the umbrella form in order to satisfy the limits of liability required for the insurance to be purchased and maintained in accordance with the required requirements set forth above (in addition to the umbrella limits required). Evidence of such excess liability shall be delivered to the **City** in the form of a certificate and the certificate indicating the policy numbers and limits of liability of all underlying insurance.

8.3 Additional Insured. The **City** shall be named as an additional insured on each certificate, and the certificate must have the endorsement of the insurance agency.

8.4 Notice. Each certificate shall contain a notation that the insurer will give 30 days notice to the **City** prior to cancellation, change or non-renewal of policy.

8.5 Carrier Rating. Insurance carriers MUST have an A.M. Best rating of "A" or better.

8.6 Material Breach. Failure of the contractor to provide and continue in force such insurance shall be deemed a material breach of contract and shall operate as immediate termination thereof.

**ARTICLE 9
TESTS AND INSPECTIONS**

9.1. Access.

9.1.1 The City, the **Design Professional**, and all other persons designated by the City shall have access to the Work at reasonable times for observing, inspecting, and testing. The **Contractor** shall provide them with proper and safe conditions for such access and advise them of the **Contractor's** site safety procedures and programs so that they may comply therewith as applicable.

9.2. Tests and Inspections.

9.2.1. The **Contractor** shall give the **Design Professional** timely notice of readiness of the Work for all required inspections, tests, or approvals and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.

9.2.2. Unless otherwise provided, the **Contractor** shall make arrangements for such tests, inspections, and approvals with an independent testing laboratory or entity acceptable to the City, or with the appropriate public authority and shall bear all related costs of tests, inspections, and approvals. If the laws or regulations of any public body having jurisdiction require any Work or part thereof specifically to be inspected, tested, or approved by an employee or other representative of such public body, the **Contractor** shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith and furnish the **Design Professional** with the required certificates of inspection, testing, or approval.

9.2.3. The **Contractor** shall be responsible for arranging and obtaining and shall pay all costs in connection with any inspections, tests, or approvals required for the **Design Professional's** acceptance of materials or equipment to be incorporated into the Work, or of materials, mix designs, or equipment submitted for approval prior to the **Contractor's** purchase thereof for incorporation into the Work.

9.2.4. If any Work that is to be inspected, tested, or approved is covered by the **Contractor**, Subcontractor, or Sub-subcontractor without the prior written consent of the **Design Professional**, it must be uncovered for observation, inspection, testing, or approval, if requested by the **Design Professional**. The **Contractor** must recover the Work at its own expense.

9.2.5. The **Contractor** shall not be relieved of obligations to perform the Work in accordance with the Contract Documents either by activities or duties of the **Design Professional** in the **Design Professional's** administration of the Contract or by tests, inspections, or approvals required or performed by persons other than the **Contractor**.

**ARTICLE 10
UNCOVERING AND CORRECTING WORK**

10.1. Uncovering Work.

10.1.1. If a portion of the Work is covered contrary to the **Design Professional's** request or to requirements specifically expressed in the Contract Documents, it must, if required in writing by the **Design Professional**, be uncovered for the **Design Professional's** observation and be replaced, both at the **Contractor's** expense and without change in the Contract Time.

10.1.2. If a portion of the Work has been covered which the **Design Professional** has not specifically requested to observe prior to its being covered, the **Design Professional** may request to see such Work, and it shall be uncovered by the **Contractor**. If it is found that such Work is in accordance with the Contract Documents, costs of uncovering and replacing shall, by appropriate Change Order, be charged to the City. If it is found that such Work is defective or not in accordance with the Contract Documents, the **Contractor** shall pay all claims, costs, losses, and damages caused by, arising out of or resulting from such uncovering, exposure, observation, inspection, and testing and of satisfactory replacement of reconstruction (including, but not limited to, all costs of repair or replacement of work of others); and the City shall be entitled to an appropriate decrease in the Contract Sum. The City may take such decrease by reducing the then current application for payment accordingly or subsequent applications, if necessary, until the decrease is paid in full.

10.2. Correcting Work.

10.2.1. The **Contractor** shall promptly correct Work rejected by the **Design Professional** or failing to conform to the requirements of the Contract Documents, whether observed before or after Substantial Completion and whether or not fabricated, installed, or completed. The **Contractor** shall bear all costs of correcting such rejected Work including additional testing and inspections and compensation for the **Design Professional's** services and expenses made necessary thereby and any cost, loss, or damages to the City resulting from such failure or defect.

10.2.2. If, within one (1) year after the date of Substantial Completion of the Work or designated portion thereof, or after the date for commencement of warranties established in Article 15, or by terms of an applicable special warranty required by the Contract Documents, any of the Work is found to be not in accordance with the requirements of the Contract Documents, the Contractor shall correct it promptly after receipt of written notice from the City to do so, unless the City has previously given the **Contractor** a written acceptance of such condition. This period of one (1) year shall be extended with respect to portions of Work first performed after Substantial Completion by the period of time between Substantial Completion and the actual performance of the Work. This obligation to correct under this paragraph shall survive acceptance of the Work under the Contract and termination of the Contract. The City shall give such notice promptly after discovery of the condition.

10.2.3. The **Contractor** shall correct, remove, or replace portions of the Work that are not in accordance with the requirements of the Contract Documents and are neither corrected by the **Contractor** nor accepted by the City.

10.2.4. If the **Contractor** fails within a reasonable time to correct nonconforming Work, or to remove and replace rejected Work, or fails to perform the Work in accordance with the Contract Documents, the **City** may correct it in accordance with the provisions herein. If the **Contractor** does not proceed with correction, removal, or replacement of such nonconforming Work within seven (7) days from the date of written notice from the **Design Professional**, the **City** may correct it and store any salvageable materials or equipment at the **Contractor's** expense. If the **Contractor** does not pay costs of any such removal and storage within ten (10) days after written notice, the **City** may upon ten (10) additional days' written notice sell such materials and equipment at auction or at private sale and shall account for the proceeds thereof, after deducting costs and damages that should have been borne by the **Contractor**, including compensation for the **Design Professional's** services and expenses made necessary thereby. If such proceeds of sale do not cover all the costs that the **Contractor** should have born, the Contract Sum shall be reduced by the deficiency. If payments then or thereafter due the **Contractor** are not sufficient to cover such amount, the **Contractor** shall pay the difference to the **City**.

10.2.5. The **Contractor** shall bear the cost of correcting destroyed or damaged construction, whether completed or partially completed, of the **City** or separate contractors caused by the **Contractor's** correction or removal of Work which is not in accordance with the requirements of the Contract Documents.

10.2.6. Nothing contained in this paragraph shall be construed to establish a period of limitation with respect to other obligations that the **Contractor** might have under the Contract Documents. Establishment of the time period of one (1) year as described in the above paragraph related only to the specific obligation of the **Contractor** to correct the Work and has no relationship to the time within which the obligation to comply with the Contract Documents may be sought to be enforced nor to the time within which proceedings may be commenced to establish the **Contractor's** liability with respect to the **Contractor's** obligations other than specifically to correct the Work.

10.3. Acceptance of Nonconforming Work.

10.3.1 If, instead of requiring correction or removal and replacement of defective or nonconforming Work, the **City** prefers to accept Work which is not in accordance with the requirements of the Contract Documents, the **City** may do so instead of requiring its removal and correction, in which case the **Contractor** shall pay all claims, costs, losses, and damages attributable to the **City's** evaluation of and determination to accept such defective or non-conforming Work. The Contract Sum will be reduced as appropriate. Such adjustment shall be effected whether or not final payment has been made.

ARTICLE 11 CHANGES IN THE WORK

11.1. In General.

11.1.1. The Contract Sum constitutes the total compensation (subject to authorized adjustments) payable to the **Contractor** for performing the Work. All duties, responsibilities and obligations assigned to or undertaken by the **Contractor** shall be at the **Contractor's** expense without any change in the Contract Sum.

11.1.2. Without invalidating the Contract and without notice to any surety, the **City** may, at any time or from time to time, order additions to, deletions from, or revisions in the Work. Such additions, deletions, or revisions will be authorized by a Change Order, a Modification or a **Construction Change Directive**. Upon receipt of any such document, the **Contractor** shall promptly proceed with the Work involved that will be performed under the applicable conditions of the Contract Documents (except as otherwise specifically provided).

11.1.3. The **Contractor** shall not be entitled to an increase in the Contract Sum or an extension of the Contract Time with respect to any Work performed that is not required by the Contract Documents as amended, modified, or supplemented, except as otherwise provided herein.

11.2. Change Orders.

11.2.1. (*Reference: M.G.L. c. 30, §391*). The **Contractor** shall perform all the Work required by this Contract in conformity with the Plans and Specifications contained herein. No willful and substantial deviation from said Plans and Specifications shall be made unless authorized in writing by the **City** and the **Design Professional** in charge of the Work who is duly authorized by the **City** to approve such deviations. In order to avoid delays in the prosecution of the Work required by such Contract, such deviation from the Plans or Specifications may be authorized by a written order of the **City** or the **Design Professional** so authorized to approve such deviation. Within thirty (30) days thereafter, such written order shall be confirmed by a certificate of the **City**, using AIA Document G701 (or its equivalent), stating: (1) If such deviation involves any substitution or elimination of materials, fixtures or equipment, the reasons why such materials, fixtures, or equipment were included in the first instance and the reasons for substitution or elimination, and, if the deviation is of any other nature, the reasons for such deviation, giving justification therefor; (2) that the specified deviation does not materially injure the Project as a whole; (3) that either the work substituted for the Work specified is of the same cost and quality, or that an equitable adjustment has been agreed upon between the **City** and the **Contractor** and the amount in dollars of said adjustment; and (4) that the

deviation is in the best interest of the **City**. The Change Order shall also indicate whether or not the date of substantial completion has been extended. The equitable adjustment in price shall be determined by the unit prices, if any, in the General Contractor's bid; otherwise, it shall be a number which is agreed to by both parties as a fair adjustment and which can be itemized and substantiated to the reasonable satisfaction of the Contracting Authority. Where increases and decreases to the Contract Sum are included in one Change Order, the negotiated allowance for overhead and profit shall be calculated on the basis of the net increase, if any.

11.3. Construction Change Directive.

11.3.1. A **Construction Change Directive** shall be used in the absence of total agreement on the terms of a Change Order.

11.3.2. Upon request of the **City** or the **Design Professional**, the **Contractor** shall without cost to the **City** submit to the **Design Professional** in such form as the **Design Professional** may require, an accurate written estimate of the cost of any proposed extra work or change. The estimate shall indicate the quantity and unit cost of each item of materials, and the number of hours of work and hourly rate for each class of labor, as well as the description and amounts of all other costs chargeable under the terms of this Article. Unit labor costs for the installation of each item of materials shall be shown if required by the **Design Professional**. If required by the **Design Professional**, in order to establish the exact cost of new Work added or of previously required Work omitted, the **Contractor** shall obtain and furnish to the **Design Professional** bona fide proposals from recognized Suppliers for furnishing any material included in such Work. Such estimates shall be furnished promptly so as to occasion no delay in the Work, and shall be furnished at the **Contractor's** expense.

11.3.3. The **Contractor** shall state in the estimate any extension of time required for the completion of the Work if the change or extra Work is ordered. The **Contractor** shall document, through a critical path analysis, or some other clearly delineated explanation, how the proposed change affects other aspects of the Work, and why it would require an extension of time. The **Contractor** shall promptly revise and resubmit such estimate if the **Design Professional** determines that it is not in compliance with the requirements of this Article, or that it contains errors of fact or mathematical errors.

11.3.4. If the **Construction Change Directive** provides for an adjustment to the Contract Sum, the adjustment shall be based on one of the following methods, as selected by the **City**, selection of which does not require the consent of the **Contractor**:

11.3.4.1. by unit prices stated in the Contract Documents or otherwise mutually agreed upon; or

11.3.4.2. by Cost and Percentages estimated by the **Contractor** as provided herein and accepted by the **City**, whereupon the **Contractor's** estimate shall become a fixed price which shall not be changed by any variation in the actual cost of executing the Work covered by the change; or

11.3.4.3. by actual Cost determined after the Work covered by the change is completed, plus Percentage; or

11.3.4.4. by submission to arbitration or a court, which shall determine the fair value of the Work covered by the change.

11.3.5. "Cost" shall mean the estimated or actual net increase or decrease in cost to the **Contractor**, Subcontractor, or Sub-subcontractor for performing the Work covered by the change, including actual payments for materials, equipment rentals, expendable items, wages, and associated benefits to the workers and to supervisors employed full time at the Site, insurance, bonds, and other provable direct costs, but not including any administrative, accounting or expediting costs, or other indirect or overhead costs, or any wages or benefits of supervisory personnel not assigned full time to the Site, or any amount for profit or fee to the **Contractor**, Subcontractor, or Sub-subcontractor.

11.3.6. "Percentage" shall mean an allowance to be added to or subtracted from the Cost in lieu of overhead and profit and of any other expense that is not included in the Cost of the Work covered by the change, as defined above. Percentage for a Sub-subcontractor shall be 8% of any net increase or decrease of Cost of any Work performed by the Sub-subcontractor's own forces plus 4% of any net increase or decrease in Cost of any Work performed for the Sub-subcontractor by lower tier Sub-subcontractors. Percentage for a Subcontractor shall be 12% of any net increase or decrease of Cost of any Work performed by the Subcontractor's own forces plus 4% of the Cost of any Work performed by Sub-subcontractors. Percentage for the **Contractor** shall be 15% of any net increase or decrease of Cost of any Work performed by the **Contractor's** own forces plus 5% of any net increase or decrease in the Cost for all other Work covered by the change. When the **Contractor** is also performing Work as a Subcontractor or Sub-subcontractor, the **Contractor** shall only be entitled to a total of no more than 15% of any net increase or decrease of Cost of any Work.

11.3.7. When in the reasonable judgment of the **Design Professional** a series of **Construction Change Directives** or Change Orders effect a single change, Percentage shall be calculated on the cumulative net increase or decrease in Cost, if any.

11.3.8. If unit prices are stated in the Contract Documents or are subsequently agreed upon, and if quantities originally contemplated are so changed in a Proposed Change Order or **Construction Change Directive** that the application of such unit prices to quantities of Work proposed will cause substantial inequity to the **City** or the **Contractor**, the applicable unit prices shall be equitably adjusted. Wherever the estimated quantities of work to be done and materials to be furnished under this

contract are shown in any of the documents including the proposal, they are given for use in comparing bids and the right is especially reserved herein otherwise specifically limited, to increase or diminish them as may be deemed reasonably necessary or desirable by CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT) to complete the work contemplated by the contract, nor shall any such increases or diminution shall in no way violate this contract, nor shall any such increase or diminution give cause for claims or liability for damages.

11.3.9. If the City elects to determine the Cost of the Work as provided in method (11.3.4.1) using unit prices stated in the Contract Documents or subsequently agreed upon, the unit prices shall be subject to the prior paragraph. Notwithstanding the inclusion of unit prices in the Contract Documents, it shall be the City's option to require the Cost of any given change to be determined by one of the other methods stated in 11.3.4. If the City elected to determine the Cost of the change by unit prices and the nature of the work is such that its extent cannot readily be measured after the completion of such work or any subsequent Work, the Contractor shall keep daily records, available at all times to the Design Professional for inspection, of the actual quantities of such Work put in place, and delivery receipts or other adequate evidence, acceptable to the Design Professional, indicating the quantities of materials delivered to the Site for use in such unit price Work, and distinguishing such from other similar material delivered for use in Work include in the base Contract Sum. If so required by the Design Professional, materials for use in unit price Work shall be stored apart from all other materials on the Project.

11.3.10. If the City elects to determine the Cost of the Work as provided in methods 11.3.4.3. or 11.3.4.4. or if the method of determining the Cost has not been established before the Work is begun, the Contractor shall keep detailed daily records of labor and material costs applicable to the Work.

11.3.11. Upon receipt of a Construction Change Directive, the Contractor shall promptly proceed with the change in the Work involved and advise the Design Professional in writing of the Contractor's agreement or disagreement with the method, if any, provided in the Construction Change Directive for determining the proposed adjustment in the Contract Time.

11.3.12. A Construction Change Directive signed by the Contractor indicates the agreement of the Contractor therewith, including adjustment in the Contract Sum and Contract Time or the method for determining them. Such agreement shall be effective immediately and shall be recorded as a Change Order.

11.3.13. If the Design Professional and the Contractor do not agree with the adjustment in the Contract Time or the method for determining it, the adjustment or the method shall be referred to the Design Professional for determination.

11.4. Minor Changes in the Work.

11.4.1. The Design Professional has the authority to order minor changes in the Work. "Minor changes" as used in this paragraph mean changes which are so insignificant as to not affect the Contract Sum or the Contract Time and which are not inconsistent with the intent of the Contract Documents. Any minor change shall be committed to a written order which shall be binding on both the City and the Contractor and which shall be promptly carried out by the Contractor.

11.5. Certificate of Appropriations. (Reference: M.G.L. c. 44, §31C.) This Contract shall not be deemed to have been made until the City's auditor has certified thereon that an appropriation in the amount of this Contract is available therefor and that an officer or agent of the City has been authorized to execute said Contract and approve all requisitions and change orders. No order to the Contractor for a change in or addition to the Work, whether in the form of a drawing, plan, detail or any other written instruction, unless it is an order which the Contractor is willing to perform without any increase to the Contract price, shall be deemed to be given until the auditor has certified thereon that an appropriation in the amount of such order is available therefore; but such certificate shall not be construed as an admission by the City of its liability to pay for such work. The certificate of the auditor that an appropriation in the amount of this Contract or in the amount of such order is available shall bar any defense by the City on the grounds of insufficient appropriation.

ARTICLE 12 CHANGE IN THE CONTRACT TIME

12.1. Date of Commencement.

12.1.1. The date of commencement of the Work is the date established in the Notice to Proceed. The date shall not be postponed by the failure to act of the Contractor or persons or entities for whom the Contractor is responsible.

12.2. Progress and Completion.

12.2.1. Time is of the essence; all time limits stated in the Contract Documents are of the essence of the Contract. By executing the Agreement, the Contractor confirms that the Contract Time is a reasonable period for performing the Work.

12.2.2. The Contractor shall proceed expeditiously with adequate forces and shall achieve Substantial Completion within the Contract Time.

12.2.3. At least ten (10) working days after the Notice to Proceed or twenty (20) working days before the first application for payment, the Contractor shall submit to the Design Professional a progress schedule showing for each class of

Work included in the schedule of values, the percentage of completion to be obtained and the total dollar value of Work to be completed as of the first of each month until Substantial Completion. All calculations shall be on the basis of Work in place, but may include, at the Design Professional's discretion, the value of materials delivered but not in place.

12.2.4. The progress schedule shall be based on an orderly progression of the Work, allowing adequate time for each operation (including adequate time for submission and review of submittals), and leading to a reasonable certainty of Substantial Completion by the date established in the Agreement. The progress schedule will be reviewed by the Design Professional for compliance with the requirements of this Article and will be accepted by the Design Professional or returned to the Contractor for revision and resubmittal. Unless specifically required by law, no payment under this Contract shall be due until the progress schedule has been approved by the Design Professional. The Design Professional's review of the progress schedule shall not impose any duty on the Design Professional or the City with respect to the timing, planning, scheduling, or execution of the Work. In particular, if the Contractor proposes a progress schedule indicating a date of Substantial Completion which is earlier than the Contract Time, the Contractor shall not be entitled to additional payment or compensation of any kind if, for any reason, the full Contract Time is required to achieve Substantial Completion of the Work.

12.2.5. If in any Application for Payment, the total value of the completed Work in place, as certified by the Design Professional, is less than 90% of the total value of the Work in place estimated in the progress schedule, the City may, at the City's option, require the Contractor to accelerate the progress of the Work without cost to the City by increasing the workforce or hours or Work or by other reasonable means approved by the Design Professional.

12.2.6. If each of three successive applications, as certified by the Design Professional, indicate that the actual Work completed is less than 90% of the values estimated in the progress schedule to be completed by the respective dates, the City may at the City's option, treat the Contractor's delinquency as a default justifying the action permitted under Article 18.

12.2.7. If the Design Professional has determined that the Contractor should be permitted to extend the time for completion as provided below, the calendar dates in the progress schedule shall be adjusted accordingly to retain their same relationship to the adjusted date of Substantial Completion, and the dollar value of the Work to be completed as of the first of each month shall be adjusted pro rata.

12.2.8. If the Contractor fails to submit any application for payment in any month, the Design Professional shall, for the purpose of this evaluation of progress, certify separately to the actual value of the Work in place completed as of the first of the month to the best of the Design Professional's knowledge.

12.2.9. Nothing herein shall limit the City's right to liquidated or other damages for delays by the Contractor or to any other remedy which the City may be entitled to or may possess under other provisions of the Contract Documents or by law.

12.3. Delays and Extensions of Time.

12.3.1. If the Contractor is delayed at any time in the progress of the Work by an act or neglect of the City or the Design Professional, or of an employee of either, or of a separate contractor employed by the City, or by changes ordered in the Work, or by labor disputes, fire, unusual delay in deliveries, unavoidable casualties, or other causes (except weather) beyond the Contractor's control, or by delay authorized by the City, or by other causes which the Design Professional determines may justify delay, then the Contract Time shall be extended by Change Order or Construction Change Directive for such reasonable time as the Design Professional may determine.

12.3.2. Claims relating to time shall be made in accordance with applicable provisions of Article 16.

12.3.3. No claim for extension of time shall be allowed on account of failure of the Design Professional to furnish Plans, Specifications or instructions or to return Shop Drawings or Samples until fifteen (15) days after receipt by the Design Professional by registered or certified mail of written demand for such instructions, Plans, Specifications, or Samples, and then not unless such claim is reasonable.

12.3.4. No extensions of time shall be granted because of seasonal or abnormal variations in temperature, humidity or precipitation, which conditions shall be wholly at the risk of the Contractor, whether occurring within the time originally scheduled for completion or within the period of any extension granted. There shall be no increase in the Contract Sum on account of any additional costs of operations or conditions resulting therefrom.

12.3.5. The Contractor hereby agrees that the Contractor shall have no claim for damages of any kind against the City or the Design Professional on account of any delay in the commencement of the Work and/or any hindrance, delay, or suspension of any portion of the Work, whether such delay is caused by the City, the Design Professional, or otherwise, except as and to the extent expressly provided under M.G.L. c. 30, §39O, in the case of written orders by the City. The Contractor acknowledges that the Contractor's sole remedy for any such delay and/or suspension will be an extension of time as provided in this Article.

12.3.6. (Reference: M.G.L. c. 30, §39O.) (a) The City may order the Contractor in writing to suspend, delay, or interrupt all or any part of the Work for such period of time as it may determine to be appropriate for the convenience of the City, provided however that if there is a suspension, delay, or interruption for fifteen (15) days or more due to a failure of the City to act within the time specified in this Contract, the City shall make an adjustment in the

Contract prices for any increase in the cost of performance of this Contract under this provision for any suspension, delay, interruption, or failure to act to the extent that such is due to any cause for which this Contract provides for an equitable adjustment of the Contract price under any other Contract provisions.

(b) The **Contractor** must submit the amount of a claim under provision (a) to the **City** in writing as soon as practicable after the end of the suspension, delay, interruption, or failure to act and, in any event, not later than the date of final payment under this Contract and, except for costs due to a suspension order, the **City** shall not approve any costs in the claim incurred more than twenty (20) days before the **Contractor** notified the **City** in writing of the act or a failure to act involved in the Claim.

In the event a suspension, delay, interruption, or failure to act of the **City** increases the cost of performance to any Subcontractor, that Subcontractor shall have the same rights against the **Contractor** for payment for an increase in the cost of its performance as provisions (a) and (b) give the **Contractor** against the **City**, but nothing in provisions (a) and (b) shall in any way change, modify, or alter any other rights which the **Contractor** or the Subcontractor may have against each other.

12.4. Liquidated Damages.

12.4.1. If the **Contractor** shall fail to achieve Substantial Completion within the Contract Time, it shall be liable to pay the **City** the daily amount specified in the Agreement, not as a penalty, but as a fixed and agreed upon damages for breach of contract. The said amount is fixed and agreed upon because of the difficulty of ascertaining the **City's** actual damages. It is mutually understood that the said amount is a reasonable approximation or estimate thereof as of the date of the Agreement. The **City** may elect to withhold said amount from periodic or final payments due to the **Contractor**, in addition to retainage and other back charges.

12.5. Changes in the Contract Time.

12.5.1. **In Writing.** The Contract Time may only be changed by a Change Order or a Modification. Any claim for an adjustment of the Contract Time shall be based on a written notice delivered to the party making the claim to the other party and to the **Design Professional** promptly (but in no event later than seven (7) days) after the occurrence of the event giving rise to the claim and stating the general nature of the claim. Notice of the extent of the claim with supporting data shall be delivered within thirty (30) days after such occurrence and shall be accompanied by the claimant's written statement that the adjustment claimed is the entire adjustment to which the claimant has reason to believe it is entitled as a result of the occurrence of said event. All claims for adjustment in the Contract Time shall be determined by the **Design Professional** in accordance with Article 16. No claim for an adjustment in the Contract Time will be valid if not submitted in accordance with the requirements of this paragraph.

12.5.2. **Early Completion.** The Contract Time shall not be changed due to a delay in the **Contractor's** early completion date.

ARTICLE 13 PAYMENTS

13.1. Schedule of Values.

13.1.1. The **Contractor** shall submit to the **Design Professional** a schedule of values which shall subdivide the Work into its component parts and shall include quantities, direct craft labor worker hours, labor cost and material/equipment cost. Labor cost shall include an appropriate amount of construction equipment costs, supplemental costs, administrative expenses, contingencies, and profit. The **Contractor** shall prepare the schedule of values in such form and supported by such data to substantiate its accuracy as the **Design Professional** may require and shall be revised if later found by the **Design Professional** to be inaccurate. This schedule, unless objected to by the **Design Professional**, shall be used as a basis for reviewing the **Contractor's** applications for payment.

13.2. Content and Submission of Applications for Payment.

13.2.1. At least ten (10) days before the date established for each progress payment, the **Contractor** shall submit to the **Design Professional** six (6) copies of an itemized application for payment for Work completed in accordance with the schedule of values. Such application shall be in a form or format established or approved by the **Design Professional** and shall be supported by documentation substantiating the **Contractor's** right to payment.

13.2.2. When **Construction Change** Directives have set forth an adjustment to the Contract Sum but have not yet been included in Change Orders, the value established by the **City** may be included in the application.

13.2.3. Applications covering Work of Subcontractors or Suppliers shall not include requests for payments of amounts the **Contractor** does not intend to pay to a Subcontractor or Supplier because of a dispute or other reason. The **Contractor** shall not be paid for any Work performed by a Subcontractor unless and until the **City** receives for that Subcontractor a certificate of insurance that conforms to the requirements of the Contract Documents.

13.2.4. Unless otherwise provided in the Contract Documents, payments shall be made on account of materials and

equipment delivered and suitably stored at the Site for subsequent incorporation in the Work. If approved in advance by the **City**, payment may similarly be made for materials and equipment suitably stored off the Site at a location agreed upon in writing. Payment for materials and equipment stored on or off the Site shall be conditioned upon the application for payment being accompanied by a bill of sale, an invoice, or other documentation warranting that the **City** has received the materials and equipment free and clear of all liens, claims, security interests, or encumbrances, hereinafter collectively referred to as "liens," and evidence that the materials and equipment are covered by appropriate insurance and other arrangements to protect the **City's** interest therein.

13.2.5. Each application for payment or periodic estimate requesting payment shall be accompanied by, at the **City's** option, a certificate from each Subcontractor stating that the Subcontractor has been paid all amounts due the Subcontractor on the basis of the previous periodic payment to the **Contractor**, or else stating the amount not so paid and the reason for the discrepancy. In the event of any such discrepancy, the **Contractor** shall furnish the **Contractor's** own written explanation to the **City** through the **Design Professional**. Such waiver or certificate shall be in a form acceptable to the **City**.

13.3. False Applications for Payment.

13.3.1. (*Reference: M.G.L. c. 266, §§67B*). Any person who makes or presents to any claim upon or against any employee or department of the **City**, knowing such claim to be false, fictitious, or fraudulent shall be punished by a fine or not more than ten thousand dollars (\$10,000) or by imprisonment in the state prison for not more than five (5) years, or in the house of correction for not more than two and one-half years, or both.

13.4. Review of Applications for Payment.

13.4.1. The **Design Professional** shall review each application for payment and will reject any application that (1) is not accompanied by the required documentation or (2) contains errors, mathematical or otherwise.

13.4.2. Within five (5) business days after receipt of an application for payment, the **Design Professional** will either (1) return the application to the **Contractor** with a written explanation as to why it was rejected or (2) issue to the **City** a certificate for payment, with a copy to the **Contractor**, for such amount as the **Design Professional** determines is properly due. In the event an application is returned to the **Contractor**, the date of receipt of the application shall be the date of receipt of the corrected application.

13.4.3. The **Design Professional** or the **City** may make changes to any application submitted by the **Contractor**.

13.4.4. By recommending any payment, the **Design Professional** will not thereby be deemed to have represented that: (1) exhaustive or continuous on-site inspections have been made to check the quality or the quantity of the Work beyond the responsibilities specifically assigned to the **Design Professional** in the Contract Documents or (2) that there may not be other matters or issues between the parties that might entitle the **Contractor** to be paid additionally by the **City** or entitle the **City** to withhold payment to the **Contractor**. The **Design Professional's** approval of the application for payment and the accompanying documentation shall indicate that to the best of the **Design Professional's** knowledge, information, and belief, the Work has progressed to the point indicated by the **Contractor**, and that the quality of the Work is in accordance with the Contract Documents, subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, the results of any subsequent tests specified in the Contract Documents, final determination of quantities and classifications for unit price work and any other qualifications so stated.

13.4.5. The **Design Professional's** recommendation of any payment shall not mean that the **Design Professional** is responsible for the **Contractor's** means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of the **Contractor** to comply with laws and regulations applicable to the furnishing or performance of Work, or for any failure of the **Contractor** to perform or furnish Work in accordance with the Contract Documents.

13.4.6. No certificate given or payment made shall be evidence of the performance of this Contract, either wholly or in part and no payment, whether made upon the final certificate or otherwise, shall be construed as an acceptance of defective work or materials.

13.5. Decisions to Withhold Certification.

13.5.1. The **Design Professional** may refuse to recommend the whole or any part of any payment if, in the **Design Professional's** opinion, it would be incorrect to make the representations to the **City** referred to above.

13.5.2. If the **Contractor** and the **Design Professional** cannot agree on a revised amount, the **Design Professional** will promptly approve a certificate for payment for the amount for which the **Design Professional** is able to make such representations to the **City**. The **Design Professional** may also decide not to certify payment or, because of subsequently discovered evidence or subsequent observations, may nullify the whole or a part of a certificate for payment previously issued, to such extent as may be necessary in the **Design Professional's** opinion to protect the **City** from loss because of:

13.5.2.1. defective Work not remedied;

- 13.5.2.2. third party claims filed or reasonable evidence indicating probable filing of such claims;
- 13.5.2.3. failure of the **Contractor** to make payments properly to Subcontractors or for labor, materials or equipment;
- 13.5.2.4. reasonable evidence that the Work cannot be completed for the unpaid balance of the Contract Sum;
- 13.5.2.5. damage to the **City** or another contractor;
- 13.5.2.6. reasonable evidence that the Work will not be completed within the Contract Time, and that retainage currently held by the **City** would not be adequate to cover actual or liquidated damage for the anticipated delay;
- 13.5.2.7. persistent failure to carry out the Work in accordance with the Contract Documents; or
- 13.5.2.8. failure of mechanical trade or electrical trade subcontractors to comply with mandatory requirements for maintaining record drawings. The **Contractor** shall check record drawings each month. Written confirmation that the record drawings are current will be required by the **Design Professional** before approval of the **Contractor's** monthly payment requisition.

13.5.3. When the above reasons for withholding certification are removed, certification will be made for amounts previously withheld.

13.6. Progress Payments.

13.6.1. After the **Design Professional** has issued a certificate for payment, the **City** shall make payment in the manner and within the time provided in the Contract Documents.

13.6.2. (*Reference:* M.G.L. c. 30, §39G, 39K;). In the case of Contracts for the construction, reconstruction, alteration, remodeling, repair or demolition of any public building when the amount is more than two thousand dollars, the following paragraph applies: Within fifteen days (30 days in the case of the commonwealth, including local housing authorities) after receipt from the contractor, at the place designated by the awarding authority if such a place is so designated, of a periodic estimate requesting payment of the amount due for the preceding month, the awarding authority will make a periodic payment to the contractor for the work performed during the preceding month and for the materials not incorporated in the work but delivered and suitably stored at the site (or at some location agreed upon in writing) to which the contractor has title or to which a subcontractor has title and has authorized the contractor to transfer title to the awarding authority, upon certification by the contractor that he is the lawful owner and that the materials are free from all encumbrances, but less (1) a retention based on its estimate of the fair value of its claims against the contractor and less (2) a retention for direct payments to subcontractors based on demands for same in accordance with the provisions of section thirty-nine F, and less (3) a retention not exceeding five per cent of the approved amount of the periodic payment. After the receipt of a periodic estimate requesting final payment and within sixty-five days after (a) the contractor fully completes the work or substantially completes the work so that the value of the work remaining to be done is, in the estimate of the awarding authority, less than one per cent of the original contract price, or (b) the contractor substantially completes the work and the awarding authority takes possession for occupancy, whichever occurs first, the awarding authority shall pay the contractor the entire balance due on the contract less (1) a retention based on its estimate of the fair value of its claims against the contractor and of the cost of completing the incomplete and unsatisfactory items of work and less (2) a retention for direct payments to subcontractors based on demands for same in accordance with the provisions of section thirty-nine F, or based on the record of payments by the contractor to the subcontractors under this contract if such record of payment indicates that the contractor has not paid subcontractors as provided in section thirty-nine F. If the awarding authority fails to make payment as herein provided, there shall be added to each such payment daily interest at the rate of three percentage points above the rediscount rate than charged by the Federal Reserve Bank of Boston commencing on the first day after said payment is due and continuing until the payment is delivered or mailed to the contractor; provided, that no interest shall be due, in any event, on the amount due on a periodic estimate for final payment until fifteen days (twenty-four days in the case of the commonwealth) after receipt of such a periodic estimate from the contractor, at the place designated by the awarding authority if such a place is so designated. The contractor agrees to pay to each subcontractor a portion of any such interest paid in accordance with the amount due each subcontractor.

For all other construction contracts, progress payments are governed by chapter 30, §39G, and as follows: The **City** shall pay the amount due pursuant to any periodic, Substantial Completion or final estimate within thirty-five (35) days after receipt of written acceptance for such estimate from the **Contractor**. In the case of periodic payments, the **City** may deduct from its payment a retention based on its estimate of the fair value of its claims against the **Contractor**, a retention for direct payments to Subcontractors based on demands for same in accordance with M.G.L. c. 30, §39F; and a retention to secure satisfactory performance of the contractual work, not exceeding five percent (5%) of the approved amount of any periodic payment, and the same right to retention shall apply to bonded Subcontractors entitled to direct payment under M.G.L. c. 30, §39F; provided, that a five percent (5%) value of all items that are planted in the ground shall be deducted from the periodic payments until final acceptance.

Retainage prior to Substantial Completion. In all construction contracts, the **City** may hold back a retainage of up to five percent of each progress payment to ensure satisfactory completion of the work. In addition, the **City** may withhold any amounts in dispute, including disputed change orders and direct payments owed to subcontractors pursuant to Chapter 30, §39F of the General Laws.

Payment upon Substantial Completion. In the case of contracts for construction, reconstruction, alteration, repair, remodeling, or demolition of a public building, where the amount is more than \$2,000, Chapter 30, Section 39K, of the General Laws governs payment upon substantial completion. For all other contracts, Chapter 30, Section 39F of the General Laws governs payment upon substantial completion.

13.6.3. No periodic, Substantial Completion or final estimate or acceptance or payment thereof shall bar the **Contractor** from reserving all rights to dispute the quantity and amount of, or the failure of the **City** to approve a quantity and amount of, all or part of any Work item or extra Work item.

13.7. Final Payment.

13.7.1. After final inspection and after the **Contractor** has completed all the required corrections to the satisfaction of the **Design Professional** and the **City** and delivered in accordance with the Contract Documents all maintenance and operating instructions, schedules, guarantees, bonds, certificates, or other evidence of insurance, certificates of inspection, marked-up record documents, and all other documents called for in the Contract Documents, as well as any surplus materials requested by the **City**, the **Contractor** may make an application for final payment as provided below.

13.7.2. (*Reference:* M.G.L. c. 30, §39G;). Within thirty (30) days after receipt by the **City** of a notice from the **Contractor** stating that all of the Work required by the Contract has been completed, the **City** shall prepare and forthwith send to the **Contractor** for acceptance a final estimate for the quantity and price of the Work done and all retainage on the Work less all payments made to date, unless the **City's** inspection shows that Work required by the Contract remains incomplete or unsatisfactory, or that documentation required by the Contract has not been completed.

13.7.3. The making and acceptance of final payment will constitute a waiver of all claims by the **Contractor** against the **City** other than those previously made in writing and still unsettled.

13.7.4. Interest. If the **City** fails to pay the **Contractor** within the time periods mandated by statute, the **City** shall pay interest to the **Contractor** in accordance with Chapter 30, Sections 39G and 39K, whichever is applicable.

13.8. Payments to Subcontractors.

13.8.1. Neither the **City** nor the **Design Professional** shall have an obligation to pay or see to the payment of money to a Subcontractor, Sub-subcontractor, or Supplier except as may otherwise be required by law.

13.8.2. (*Reference:* M.G.L. c. 30, §39F;). (1) Every contract awarded pursuant to sections forty-four A to L, inclusive, of chapter one hundred and forty-nine shall contain the following subparagraphs (a) through (i) and every contract awarded pursuant to section thirty-nine M of chapter thirty shall contain the following subparagraphs (a) through (h) and in each case those subparagraphs shall be binding between the general contractor and each subcontractor.

(a) Forthwith after the **Contractor** receives payment on account of a periodic estimate, the **Contractor** shall pay to each Subcontractor the amount paid for the labor performed and the materials furnished by that Subcontractor, less any amount specified in any court proceedings barring such payment and also less any amount claimed due from the Subcontractor by the **Contractor**.

(b) Not later than the sixty-fifth day after each Subcontractor substantially completes its Work in accordance with the Plans and Specifications, the entire balance due under the subcontract, less amounts retained by the **City** as the estimated cost of completing the incomplete and unsatisfactory items of Work, shall be due the Subcontractor; and the **City** shall pay that amount to the **Contractor**. The **Contractor** shall forthwith pay to the Subcontractor the full amount received from the **City** less any amount specified in any court proceeding barring such payment and also less any amount claimed due from the Subcontractor by the **Contractor**.

(c) Each payment made by the **City** to the **Contractor** pursuant to paragraphs (a) and (b) of M.G.L. c. 30, §39F(1); for the labor performed and the materials furnished by a Subcontractor shall be made to the **Contractor** for the account of that Subcontractor; and the **City** shall take reasonable steps to compel the **Contractor** to make each such payment to each such Subcontractor. If the **City** has received a demand for direct payment from a Subcontractor for any amount which has already been included in a payment to the **Contractor** or which is to be include in a payment to the **Contractor** for payment to the Subcontractor as provided in paragraphs (a) and (b) of M.G.L. c. 30, §39F(1), the **City** shall act upon the demand as provided in M.G.L. c. 30, §39F.

(d) If, within seventy (70) days after the Subcontractor has substantially completed the subcontract Work, the Subcontractor has not received from the **Contractor** the balance due under the subcontract including any amount due for extra labor and materials furnished to the **Contractor**, less any amount retained by the **City** as the estimated cost of completing the incomplete and unsatisfactory items of Work, the Subcontractor may demand direct payment of that

balance from the **City**. The demand shall be by a sworn statement delivered to or sent by certified mail to the **City**, and a copy shall be delivered to or sent by certified mail to the **Contractor** at the same time. The demand shall contain a detailed breakdown of the balance due under the subcontract and also a statement of the status of completion of the subcontract Work. [The demand letter shall indicate the certified mail number assigned by the postal service or the date of delivery to the **Contractor**.] Any demand made after substantial completion of the subcontract Work shall be valid even if delivered or mailed prior to the seventieth day after the Subcontractor has substantially completed the subcontract Work. Within ten (10) days after the Subcontractor has delivered or so mailed the demand to the **City** and delivered or so mailed a copy to the **Contractor**, the **Contractor** may reply to the demand. The reply shall be by a sworn statement delivered to or sent by certified mail to the **City**, and a copy shall be delivered to or sent by certified mail to the Subcontractor at the same time. The reply shall contain a detailed breakdown of the balance due under the subcontract, including any amount due for extra labor and materials furnished to the **Contractor** and of the amount due for each claim made by the **Contractor** against the Subcontractor.

(e) Within fifteen (15) days after receipt of the demand by the **City**, but in no event prior to the seventieth day after substantial completion of the subcontract Work, the **City** shall make direct payment to the Subcontractor of the balance due under the subcontract, including any amount due for extra labor and materials furnished to the **Contractor**, less any amount (i) retained by the **City** as the estimated cost of completing the incomplete or unsatisfactory items of Work, (ii) specified in any court proceedings barring such payment, or (iii) disputed by the **Contractor** in the sworn reply; provided that the **City** shall not deduct from a direct payment any amount as provided in part (iii) if the reply is not sworn to or for which the sworn reply does not contain the detailed breakdown required by the previous paragraph. The **City** shall make further direct payments to the Subcontractor forthwith after the removal of the basis for deductions from direct payments made as provided in parts (i) and (ii) of this paragraph.

(f) The **City** shall forthwith deposit the amount deducted from a direct payment as provided in part (iii) of the previous paragraph in an interest-bearing joint account in the names of the **Contractor** and the Subcontractor in a bank in Massachusetts selected by the **City** or agreed upon by the **Contractor** and the Subcontractor and shall notify the **Contractor** and the Subcontractor of the date of the deposit and the bank receiving the deposit. The bank shall pay the amount in the account, including accrued interest, as provided in an agreement between the **Contractor** and the Subcontractor or as determined by decree of a court of competent jurisdiction.

(g) All direct payments and all deductions from demands for direct payments deposited in an interest-bearing account or accounts in a bank pursuant to the previous paragraph shall be made out of amounts payable to the **Contractor** at the time of receipt of a demand for direct payment from a Subcontractor and out of amounts which later become payable to the **Contractor** and in the order of receipt of such demands from Subcontractors. All direct payments shall discharge the obligation of the **City** to the **Contractor** to the extent of such payment.

(h) The **City** shall deduct from payments to a **Contractor** amounts that, together with the deposits in interest-bearing accounts pursuant to paragraph (f), are sufficient to satisfy all unpaid balances of demands for direct payment received from Subcontractors. All such amounts shall be earmarked for such direct payments, and the Subcontractors shall have a right in such deductions prior to any claims against such amounts by creditors of the **Contractor**.

(i) If the Subcontractor does not receive payment as provided in paragraph (a) or if the **Contractor** does not submit a periodic estimate for the value of the labor or materials performed or furnished by the Subcontractor and the Subcontractor does not receive payment for same when due less the deductions provided for in paragraph (a), the Subcontractor may demand direct payment by following the procedure in paragraph (d) and the **Contractor** may file a sworn reply as provided in that same paragraph. A demand made after the first day of the month following that for which the Subcontractor performed or furnished the labor and materials for which the Subcontractor seeks payment shall be valid even if delivered or mailed prior to the time payment was due on a periodic estimate from the **Contractor**. Thereafter the **City** shall proceed as provided in paragraphs (e), (f), (g), and (h). "Subcontractor" as used in this paragraph (i)(i) shall mean a person approved by the **City** in writing as a person performing labor or both performing labor and furnishing materials pursuant to a contract with the **Contractor**.

(2) Any assignment by a Subcontractor of the rights under this section to a surety company furnishing a bond under the provisions of M.G.L. c. 149, §29; shall be invalid. The assignment and subrogation rights of the surety to amounts included in a demand for direct payment which are in the possession of the **City** or which are on deposit pursuant to paragraph (g) shall be subordinate to the rights of all Subcontractors who are entitled to be paid under this section and who have not been paid in full.

(3) A **Contractor** or a Subcontractor shall enforce a claim to any portion of the amount of a demand for direct payment deposited as provided in herein by a petition in equity in the superior court against the other and the bank shall not be a necessary party. A Subcontractor shall enforce a claim for direct payment or a right to require a deposit as provided in paragraph (f) by a petition in equity in the superior court against the **City** and the **Contractor** shall not be a

necessary party. Upon motion of any party the court shall advance for speedy trial any petition filed as provided in this paragraph. M.G.L. c. 231, §§59 and 59B shall apply to such petitions. The court shall enter an interlocutory decree upon which execution shall issue for any part of a claim found due pursuant to §§59 and 59B and, upon motion of any party, shall advance for speedy trial the petition to collect the remainder of the claim. Any party aggrieved by such interlocutory decree shall have the right to appeal therefrom as from a final decree. The court shall not consolidate for trial the petition of any Subcontractor with the petition of one or more Subcontractors or the same general contract unless the court finds that a substantial portion of the evidence of the same events during the course of construction (other than the fact that the claims sought to be consolidated arise under the same general contract) is applicable to the petitions sought to be consolidated and that such consolidation will present unnecessary duplication of evidence. A decree in any such proceeding shall not include interest on the disputed amount deposited in excess of the interest earned for the period of any such deposit. No person except a Subcontractor filing a demand for direct payment for which no funds due the **Contractor** are available for direct payment shall have a right to file a petition in court of equity against the **City** claiming a demand for direct payment is premature, and such Subcontractor must file the petition before the **City** has made a direct payment to the Subcontractor and has made a deposit of the disputed portion as provided in part (iii) of paragraph (e) and in paragraph (f).

(4) In any petition to collect any claim for which a Subcontractor has filed a demand for direct payment the court shall, upon motion of the **Contractor**, reduce by the amount of any deposit of a disputed amount by the **City** as provided in part (iii) of paragraph (e) and in paragraph (f) any amount held under a trustee writ or pursuant to a restraining order or injunction.

ARTICLE 14 SUBSTANTIAL COMPLETION

14.1. Substantial Completion.

14.1.1. Upon Substantial Completion of the Work, the **Contractor** shall present in writing to the **City** its certification that the Work has been substantially completed and include in its certification (1) a list of items to be completed or corrected, (2) all special warranties required by the Contract Documents, endorsed by the **Contractor** and in a form reasonably acceptable to the **Design Professional** and (3) the permits and certificates referred to in 13.7.1., or elsewhere. The failure to include any item on the list mentioned in the preceding sentence does not alter the responsibility of the **Contractor** to complete all Work in accordance with the Contract Documents. When the **Design Professional** on the basis of an inspection determines that the Work or designed portion thereof is substantially complete and the other conditions have been met, the **Design Professional** will then prepare a certificate of Substantial Completion which shall establish the date of Substantial Completion, shall state the responsibilities of the **City** and the **Contractor** for security, maintenance, heat, utilities, damage to the Work, and insurance, and shall fix the time within which the **Contractor** shall complete the items listed therein. The certificate of Substantial Completion shall be submitted to the **City** and the **Contractor** for their written acceptance of the responsibilities assigned to them in such certificate.

14.1.2. Within twenty-one (21) days after receipt of the certification from the **Contractor**, the **City** shall present to the **Contractor** either a written declaration that the Work has been substantially completed or an itemized list of incomplete or unsatisfactory work items required by the Contract sufficient to demonstrate that the Work has not been substantially completed. The **City** may include with such list a notice setting forth a reasonable time within which the **Contractor** must achieve Substantial Completion of the Work. If the **City** fails to respond, by presentation of a written declaration or itemized list as aforesaid, to the **Contractor's** certification within the twenty-one (21) day period, the **Contractor's** certification shall take effect as the **City's** declaration that the Work has been substantially completed.

14.2. Partial Use or Occupancy of the Premises.

14.2.1. The **City** may occupy or use any completed or partially completed portion of the Work at any stage. Such partial occupancy or use may begin whether or not the portion is substantially complete, provided that the respective responsibilities of the **City** and the **Contractor** with respect to payments, retainage, if any, security, maintenance, heat, utilities, damage to the Work, insurance, correction of the Work, and warranties shall be established by agreement of the **City** and the **Contractor** or, absent such agreement, shall be determined by the **Design Professional** subject to the right of either party to contest such determination as provided in Article 16.

14.2.2. Immediately prior to such partial occupancy or use, the **City**, the **Contractor** and the **Design Professional** shall jointly inspect the area to be occupied or portion of the Work to be used in order to determine and record the condition of the Work.

14.2.3. Unless otherwise agreed upon, partial occupancy or use of a portion or portions of the Work shall not constitute acceptance of Work not complying with the requirements of the Contract Documents.

14.2.4. (Reference: M.G.L. c. 30, §39G;). Within sixty-five (65) days after the effective date of a declaration of

Substantial Completion, the City shall prepare and send to the Contractor for acceptance a Substantial Completion estimate for the quantity and price of the Work done and all but one percent (1%) retainage on that Work, including the quantity, price and all but one percent (1%) retainage for the undisputed part of each item and extra work item in dispute, but excluding the disputed part thereof, less the estimated cost of completing all incomplete and unsatisfactory items and less the total periodic payments made to date for the Work. The City shall also deduct from the Substantial Completion estimate an amount equal to the sum of all demands for direct payment filed by Subcontractors and not yet paid to Subcontractors or deposited in joint accounts pursuant to M.G.L. c. 30, §39F.

14.2.5. (Reference: M.G.L. c. 30, §39G). If the City fails to prepare and send to the Contractor any Substantial Completion estimate required by the provisions herein on or before the date specified, the City shall pay to the Contractor interest on the amount which would have been due to the Contractor pursuant to such Substantial Completion estimate at the rate of three (3) percentage points above the rediscount rate then charged by the Federal Reserve Bank of Boston from such date to the date on which the City sends that Substantial Completion estimate to the Contractor for acceptance or to the date of payment therefor, whichever occurs first. The City shall include the amount of such interest in the Substantial Completion estimate.

14.2.6. (Reference: M.G.L. c. 30, §39G). Within fifteen (15) days after the effective date of the declaration of Substantial Completion, the City shall send to the Contractor by certified mail, return receipt requested, a complete list of all incomplete or unsatisfactory items, and unless delayed by causes beyond its control, the Contractor shall complete all such items within forty-five (45) days after the receipt of such list or before the date for final payment and acceptance, whichever is later. If the Contractor fails to complete such Work within such time, the City may, subsequent to seven (7) days' written notice to the Contractor by certified mail, return receipt requested, terminate the Contract and complete the incomplete or unsatisfactory items and charge the cost of same to the Contractor.

14.3. Final Inspection.

14.3.1. Upon written notice from the Contractor that the entire Work or an agreed portion thereof is complete, the Design Professional will make a final inspection with the City and the Contractor and will notify the Contractor in writing of all particulars which this inspection reveals that the Work is incomplete or defective. The Contractor shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

ARTICLE 15 GUARANTEES AND WARRANTIES

15.1. In General.

15.1.1. All guarantees and warranties specifically called for by the Specifications shall expressly run to the benefit of the City. Neither the final certificate of payment nor any provision in the Contract Documents, nor partial or entire occupancy of the premises by the City shall constitute any acceptance of work not done in accordance with the Contract Documents or relieve the Contractor of liability in respect to any express warranties or responsibility for faulty materials or workmanship. The Contractor shall remedy any defects in the work and pay for any damage to other work resulting therefrom, which shall appear within a period of one year from the date of final acceptance of the work unless a longer period is specified. CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT) will give notice of observed defects with reasonable promptness.

15.2. Warranties.

15.2.1. Warranties required by the Contract Documents shall commence on the date of Substantial Completion of the Work or designated portion thereof, unless otherwise provided in the certificate of Substantial Completion.

15.2.2. The Contractor warrants that the materials and equipment furnished under the Contract will be new and of recent manufacture unless otherwise specified, and that all Work will be of good quality, free from faults and defects, and in conformance with the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective. The Contractor's warranty excludes remedy for damage or defect caused by abuse, Modifications not executed by the Contractor, improper or insufficient maintenance, improper operation, or normal wear and tear under normal usage. If required by the Design Professional, the Contractor shall furnish satisfactory evidence as to the kind and quality of material and equipment.

15.2.3. The Contractor warrants that title to all Work covered by an application for payment will pass to the City either by incorporation in the construction or upon the receipt of payment by the Contractor, whichever occurs first, free and clear of all liens. The Contractor further agrees that the submission of any application for payment shall conclusively be deemed to waive all liens with respect to said Work to which the Contractor may then be entitled, provided that such waiver of the lien rights shall not waive the Contractor's right to payment for such Work.

15.2.4. The Contractor warrants and guarantees that title to all Work, materials, and equipment covered by any

application for payment, whether incorporated in the Project or not, will pass to the City no later than the time of payment free and clear of all liens.

15.2.5. No materials or supplies for the Work shall be purchased by the Contractor or Subcontractor subject to any chattel mortgage or under a conditional sale contract or other agreement by which an interest is retained by the seller. The Contractor warrants that it has good title to all materials and supplies used by it in the Work, free from all liens.

15.2.6. The Contractor shall indemnify and hold the City harmless from all claims growing out of the lawful demands of Subcontractors, laborers, workers, mechanics, material persons, and furnishers of machinery and parts thereof, equipment, power tools, and all supplies, including commissary, incurred in the furtherance of the performance of this Contract. The Contractor shall at the City's request, furnish satisfactory evidence that all obligations of the nature hereinabove designated have been paid, discharged, or waived. If the Contractor fails to do so, then the City may, after having served written notice on the Contractor either pay unpaid bills, of which the City has written notice, direct, or withhold from the Contractor's unpaid compensation a sum of money deemed reasonably sufficient to pay any and all such lawful claims until satisfactory evidence is furnished that all liabilities have been fully discharged whereupon payment to the Contractor shall be resumed, in accordance with the terms of this Contract, but in no event shall the provisions of this sentence be construed to impose any obligations on the City to either the Contractor or its surety. In paying any unpaid bills of the Contractor, the City shall be deemed the agent of the Contractor and any payment so made by the City shall be considered as payment made under the Contract by the City to the Contractor and the City shall not be liable to the Contractor for any such payment made in good faith.

15.3. Extended Warranties and Guarantees.

15.3.1. Any defective Work that is either corrected or replaced will be warranted and guaranteed for a period of three (3) years from the date of such correction or replacement.

ARTICLE 16 CLAIMS

16.1. In General.

16.1.1. Written Notice. A Claim must be made by written notice to the other party.

16.1.2. Content of Notice. The notice must include all written supporting data.

16.1.3. Burden of Proof. The party making the Claim must substantiate the Claim.

16.2. Time Limits on Claims.

16.2.1. Unless otherwise provided, all Claims must be made within twenty-one (21) days after the occurrence of the event giving rise to such Claim or within twenty-one (21) days after the claimant first recognizes the condition giving rise to the Claim, whichever is later. Any change or addition to a previously made Claim shall be made by a written notice within the twenty-one-day period in order to be valid.

16.3. Continuing Contract Performance.

16.3.1. Pending final resolution of a Claim including arbitration, unless otherwise agreed in writing, the Contractor shall proceed diligently with performance of the Contract and the City shall continue to make payments in accordance with the Contract Documents.

16.4. Types of Claims.

16.4.1. Claims for Differing Subsurface or Latent Physical Conditions. (Reference: M.G.L. c. 30, §39N). If, during the progress of the Work, the Contractor or the City discovers that the actual subsurface or latent physical conditions encountered at the Site differ substantially or materially from those shown on the Plans or indicated in the Contract Documents, either the Contractor or the City may request an equitable adjustment in the Contract Sum of the Contract applying to Work affected by the differing Site conditions. A request for such an adjustment shall be in writing and shall be delivered by the party making such claim to the other party as soon as possible after such conditions are discovered. Upon receipt of such a claim from a Contractor, or upon its own initiative, the City shall make an investigation of such physical conditions, and if they differ substantially or materially from those shown on the Plans or indicated in the Contract Documents or from those ordinarily encountered and generally recognized as inherent in Work of the character provided for in the Plans and Contract Documents and are of such a nature as to cause an increase or decrease in the cost of performance of the Work or a change in the construction methods required for the performance of the Work which results in an increase or decrease in the cost of the Work, the City shall make an equitable adjustment in the Contract Sum and the Contract shall be modified in writing accordingly.

16.4.2. Claims for Additional Cost. If the Contractor claims that any acts or omissions of the City or the Design Professional, including any instructions or orders, whether oral, written, by drawings, or otherwise, involve extra cost or time, and the Contractor has not received a written acknowledgment by the City or the Design Professional that extra payment will

be made or time extended on account thereof, the **Contractor** shall promptly so notify the **Design Professional** in writing of such Claim and shall proceed with the Work relating to such Claim and all rights of both parties with respect to such Claim shall be deemed to have been reserved. No Claim by the **Contractor** on account of such acts, omissions, instructions, or orders shall be valid unless the **Contractor** has so notified the **Design Professional** before proceeding.

16.4.2.1. Under no circumstances shall a Claim be made for additional cost where adverse weather conditions are the basis for the Claim.

16.4.3. Claims for Additional Time. If the **Contractor** wishes to make a Claim for an increase in the Contract Time, written notice as provided herein shall be given. The **Contractor** shall have the burden of demonstrating the effect of the claimed delay on the Contract Time and shall furnish the **Design Professional** with such documentation relating thereto as the **Design Professional** may reasonably require. Under no circumstances shall the **Contractor** make a Claim for an increase in the Contract Time due to a change in the **Contractor's** early completion date. If the increase in the Contract Time extends beyond the Contract Time established by the **City**, only the time that so extends beyond the Contract Time shall be reviewed and considered. In the case of a continuing delay, only one Claim is necessary.

16.4.3.1. Under no circumstances shall a Claim be made for additional time where adverse weather conditions are the basis for the Claim.

16.4.4. Claims for Injury to Person or Damage to Property. Should either party to the Contract suffer injury to person or damage to property because of any error, omission, or act of the other party or of any of the other party's employees or agents or others for whose acts the other party is legally liable, a Claim will be made in writing to the other party within twenty-one (21) days of the occurrence of the act giving rise to the injury or damage.

16.5. Review of Claims.

16.5.1. Initial Referral. All Claims, the bases of which arise prior to final payment or the earlier termination of the Contract, shall be referred initially to the **Design Professional** for action as provided herein.

16.5.2. Time Period and Action. The **Design Professional** shall review Claims and shall do one of the following within fourteen (14) days of receipt of the Claim:

16.5.2.1. defer any action with respect to all or any part of a Claim for the purpose of requesting and receiving additional information from either party;

16.5.2.2. decline in writing to render a decision for any reason which it deems appropriate (including, but not limited to, the fact that the Claim involves allegations of fault on the part of the **Design Professional**); or

16.5.2.3. render a decision on all or a part of the Claim.

16.5.3. If the **Design Professional** requests additional information, the **Design Professional** shall take action with respect to the Claim no later than fourteen (14) days after receipt of the additional information. The **Design Professional** shall notify the parties in writing of its disposition of such Claim. If the **Design Professional** renders a decision or declines to render a decision, either party may proceed in accordance with paragraph 16.7.

16.6. Decisions.

16.6.1. Decisions by the City or the Design Professional. (*Reference:* M.G.L. c. 30, §39P;). In every case in which this Contract requires the **City**, any official, or its **Design Professional** to make a decision on interpretation of the Specifications, approval of equipment, material or any other approval, or progress of the Work, the decision shall be made promptly and, in any event, no later than fourteen (14) days after the written submission for decision; but if such decision requires extended investigation and study, the **City**, the official, or the **Design Professional** shall, within fourteen (14) days after the receipt of the submission, give the party making the submission written notice of the reasons why the decision cannot be made within the thirty-day period and the date by which the decision will be made.

16.6.2. When Decision of the Design Professional is Final and Binding. The decision of the **Design Professional** shall be final and binding on the parties, unless a party files suit or a demand for arbitration within thirty (30) days after the date of the decision.

16.6.3. When Decision of the Design Professional is Not Final and Binding. (*Reference:* M.G.L. c. 30, §39J). Notwithstanding any contrary provision of this Contract, no decision by the **City** or by the **Design Professional** on a dispute, whether of fact or of law, arising under said Contract shall be final or conclusive if such decision is made in bad faith, fraudulently, capriciously, arbitrarily, is unsupported by substantial evidence, or is based upon error of law.

16.6.4. Resolved Claims. If a Claim is resolved, the **Design Professional** shall obtain or prepare the appropriate documentation and provide the **City** and the **Contractor** with a copy of same.

16.7. Arbitration.

16.7.1. Controversies and Claims Subject to Arbitration. Any controversy or Claim arising out of or related to the

Contract, or the breach thereof, shall be settled by arbitration in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association, and judgment upon the award rendered by the arbitrator or arbitrators may be entered in any court having jurisdiction thereof, except controversies or Claims relating to aesthetic effect, subject to the provisions of paragraph 16.7.7. In any such arbitration in which the amount stated in the demand is \$100,000 or less, the American Arbitration Association shall appoint a single arbitrator in accordance with such Rules, who shall be a lawyer. In any such arbitration in which the amount stated in the demand is in excess of \$100,000, the demand shall include the name of an arbitrator appointed by the claimant. The respondent shall appoint a second arbitrator and shall notify the claimant in writing of such appointment within thirty (30) days of receipt of the demand, failing which the matter shall be decided by the arbitrator named in the claimant's demand. Within thirty (30) days after the claimant's receipt of notice of the appointment of the second arbitrator, the two arbitrators shall appoint a neutral arbitrator and shall notify the parties in writing of such appointment, failing which either party may apply to the American Arbitration Association to appoint such neutral arbitrator. If such neutral arbitrator is appointed by the American Arbitration Association, he or she shall be a lawyer.

16.7.2. Rules for Arbitration. If the neutral arbitrator is appointed by the American Arbitration Association, the said Association shall administer the arbitration and its Construction Industry Arbitration Rules shall govern all aspects of the proceeding including the enforcement of any award. If the neutral arbitrator is not appointed by the American Arbitration Association, then the panel of arbitrators shall act as the administrator of the arbitration but the Construction Industry Arbitration Rules of the Association shall nonetheless govern all aspects of the proceeding, including the enforcement of any award, provided however that the arbitration panel shall have all of the powers and duties conferred on the Association pursuant to said rules. In addition, the following rules shall govern the selection of arbitrators and the proceedings:

16.7.2.1. Neither party may appoint as arbitrator an employee or an owner of that party, nor the parent, spouse, or child of an employee or owner of that party.

16.7.2.2. After the neutral arbitrator has been appointed, neither party may engage in *ex parte* communication with any arbitrator.

16.7.3. When Arbitration May Be Demanded. Demand for arbitration of any Claim, the basis of which arises prior to final payment or the earlier termination of the Contract may not be made before the earlier of (1) the date on which the **Design Professional** has rendered a written decision on the Claim or has notified the parties in writing that such decision will not be rendered or (2) forty-five (45) days following receipt by the **Design Professional** of a written request for a decision sent by registered or certified mail to both the **Design Professional** and the other party to this Contract.

16.7.3.1. In no event shall a demand for arbitration be made after the date when the institution of legal or equitable proceedings based on such Claim would be barred by the applicable statute of limitations.

16.7.4. Limitation on Consolidation or Joinder. No arbitration arising out of or relating to the Contract Documents shall include, by consolidation or joinder or in any other manner, the **Design Professional**, the **Design Professional's** employees or consultants, except by written consent containing specific reference to the Contract and signed by the **Design Professional**, the **City**, the **Contractor**, and any other person or entity sought to be joined. No arbitration shall include, by consolidation or joinder or in any other manner, parties other than the **City**, the **Contractor**, a separate contractor, and other persons substantially involved in a common question of fact or law whose presence is required if complete relief is to be accorded in arbitration. No person or entity other than the **City**, the **Contractor**, or a separate contractor shall be included as an original third party or additional third party to an arbitration whose interest or responsibility is insubstantial. Consent to arbitration involving an additional person or entity shall not constitute consent to arbitration of a dispute not described therein or with a person or entity so named or described herein. The foregoing agreement to arbitrate and other agreements to arbitrate with an additional person or entity duly consented to by parties to the Contract shall be specifically enforceable under applicable law in any court having jurisdiction thereof.

16.7.5. Claims and Timely Assertion of Claims. A party who files a notice of demand for arbitration must assert in the demand all Claims then known to that party on which arbitration is permitted to be demanded. When a party fails to include a Claim through oversight, inadvertence, or excusable neglect, or when a Claim has matured or been acquired subsequently, the arbitrator or arbitrators may permit amendment.

16.7.6. Award Final. The award rendered by the arbitrator or arbitrators shall be final, and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof.

16.7.7. The City's Reservation of Rights. Notwithstanding any provision contained in this Article 16 or elsewhere in the Contract Documents, the **City** reserves the following rights in connection with Claims between the **City** and the **Contractor**, which rights may be exercised by the **City** unilaterally, in the **City's** sole discretion, and without the consent of the **Contractor**:

16.7.7.1. the right to institute legal action against the **Contractor** in any court of competent jurisdiction in lieu of demanding arbitration, in which case the dispute or disputes which are the subject of such action shall be decided by such court, and not by arbitration;

16.7.7.2. the right to obtain from any court of competent jurisdiction a stay of any arbitration instituted by the **Contractor**, provided that the application for such stay is made before the appointment of the neutral arbitrator in

such arbitration, in which case the dispute or disputes which are the subject of such arbitration shall be decided by such court and not by arbitration;

16.7.7.3. the right to require the **Contractor** to join as a party in any arbitration between the **City** and the **Design Professional** relating to the Project, in which case the **Contractor** agrees to be bound by the decision of the arbitrator or arbitrators in such arbitration.

16.7.8. In case the **City** elects to proceed in accordance with 16.7.7.1. or 16.7.7.2. above, the word "litigation" shall be deemed to replace the word "arbitration" wherever the latter word appears in the Contract Documents.

ARTICLE 17 EMERGENCIES

17.1. In an emergency affecting the health and safety of persons or property, the **Contractor** shall act to prevent threatened damage, injury, or loss.

17.2. In emergencies affecting the health, safety, or protection of persons, the Work or property at the Site or adjacent thereto, the **Contractor**, without special instruction or authorization from the **City** or the **Design Professional**, is obligated to act to prevent threatened damage, injury, or loss. The **Contractor** shall give the **Design Professional** prompt written notice if the **Contractor** believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby. If the **Design Professional** determines that a change in the Contract Documents is required because of the action taken by the **Contractor** in response to such an emergency, a **Construction Change Directive** or Change Order will be issued to document the consequences of such action.

ARTICLE 18 TERMINATION OR SUSPENSION OF THE CONTRACT

18.1. Suspension by the City.

18.1.1. At any time and without cause, the **City** may suspend the Work or any portion thereof for a period of not more than ninety (90) days by notice in writing to the **Contractor** and the **Design Professional** that will fix the date on which Work will be resumed. The **Contractor** shall resume Work on the date so fixed. The **Contractor** shall be allowed an adjustment in the Contract Sum or an extension of the Contract Time, or both, directly attributable to any such suspension if the **Contractor** makes an approved Claim therefor, provided, however, that if there is a suspension, delay or interruption for fifteen days or more or due to a failure of the Awarding Authority to act within the time specified in this contract, the Awarding Authority shall make an adjustment in the contract price for any increase in the cost of performance of this contract but shall not include any profit to the General Contractor on such increase; and provided further, that the Awarding Authority shall not make any adjustment in the contract price under this provision for any suspension, delay, interruption, or failure to act to the extent that such is due to any cause for which this contract provides for an equitable adjustment of the contract price under any other contract provisions. The General Contractor must submit the amount of a claim under provision (1) to the Awarding Authority in writing as soon as practicable after the end of the suspension, delay, interruption or failure to act and, in any event, not later than the date of final payment under this contract and, except for costs due to a suspension order, the Awarding Authority shall not approve any costs in the claim incurred more than twenty days before the General Contractor notified the Awarding Authority in writing of the act or failure to act involved in the claim. The General Contractor must submit the amount of a claim under provision (1) to the Awarding Authority in writing as soon as practicable after the end of the suspension, delay, interruption or failure to act and, in any event, not later than the date of final payment under this contract and, except for costs due to a suspension order, the Awarding Authority shall not approve any costs in the claim incurred more than twenty days before the General Contractor notified the Awarding Authority in writing of the act or failure to act involved in the claim.

18.1.1.1 Notwithstanding the above, if the **City** is required to suspend the work as a result of a request from the Office of the Attorney General in connection with a bid protest or an injunction, the **Contractor** shall not have a claim for damages, but the **City** shall extend the date of substantial completion for a period of time commensurate with the period of the suspension, and the liquidated damages clause shall not take effect until the extended date of substantial completion. If any of the following occurrences causes a delay in the work, the **Contractor** shall immediately notify CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT) in writing. If, upon investigation, the **City** finds that the delay is excusable, the **City** shall extend the date of substantial completion for a period of time commensurate with the period of the excusable delay, and the liquidated damages clause shall not take effect until the extended date of substantial completion: (1) any acts of the Government, including controls or restrictions upon or requisitioning of materials, equipment, tools, or labor by reason of war, National Defense, or any other national emergency; (2) delays which are caused by the **City** and which are not occasioned by the **Contractor's** failure to supply CONTRACTING DEPARTMENT (AS STATED ON THE FIRST PAGE OF THE AGREEMENT) or its design professional with progress schedules, documents, samples, and the like, in a timely manner; (3) causes not reasonably foreseeable by the parties to this Contract, which are beyond the reasonable

control of the **Contractor**, such as blizzards, floods, hurricanes, tornadoes, and strikes; (4) any delay of any subcontractor resulting from paragraphs (1), (2), or (3).

18.1.2. If the Work is defective, if the **Contractor** fails to provide a sufficient number of skilled workers or suitable materials or equipment, or if the **Contractor** defaults or neglects to carry out the Work in accordance with the Contract Documents and fails within a seven-day period after receipt of written notice from the **City** to begin and prosecute correction of such default or neglect with diligence and promptness, the **City** may correct such deficiencies, without prejudice to other remedies the **City** may have. In such case, an appropriate **Construction Change Directive** shall be issued deducting from payments then or thereafter due to the **Contractor** the cost of correcting such deficiencies including compensation for the **Design Professional's** additional services and expenses made necessary by such default, neglect, or failure and any and all direct, indirect, or consequential costs associated with the order to stop the Work. If such payments then or thereafter due the **Contractor** are not sufficient to cover such amounts, the **Contractor** shall immediately pay the difference to the **City**. The **Contractor** shall remain responsible for maintaining progress and shall not be entitled to any increase in the Contract Time or the Contract Sum.

18.2. Termination by the Contractor.

18.2.1. If, through no act or fault of the **Contractor**, a Subcontractor, or a Sub-subcontractor, the Work is suspended for a period of more than ninety (90) days by the **City**, or under an order of court or other public authority, or the **Design Professional** fails to act on any application for payment within thirty (30) days after it is submitted in proper form and content or the **City** fails for thirty (30) days to pay the **Contractor** any sum finally determined to be due, then the **Contractor** may terminate the Contract upon seven (7) days' written notice to the **City**, provided that the **City** does not remedy such suspension or failure within that time.

18.3. Termination by the City.

18.3.1. If the **Contractor** is adjudged a bankrupt, or if the **Contractor** makes a general assignment for the benefit of the **Contractor's** creditors, or if a receiver is appointed on account of the **Contractor's** insolvency, or if the **Contractor** makes a written admission of the **Contractor's** inability to pay debts, or if the **Contractor** becomes a debtor or defendant in (i) a voluntary or involuntary petition in bankruptcy, (ii) a petition for appointment of a receiver, (iii) a levy of an attachment or execution, (iv) a winding up or dissolution of a partnership or corporation, (v) or any other proceeding under which a court of competent jurisdiction assumes custody or control over the **Contractor**, or if the **Contractor** persistently or repeatedly refuses or fails, except in cases for which extension of time is provided, to supply enough properly skilled workers or proper materials, or fails to prosecute the work with such diligence as will, in the reasonable estimation of the **City**, ensure substantial completion within the time specified in the Contract Documents, or if the **Contractor** fails to make prompt payment to Subcontractors or for materials or labor, or persistently disregards laws, ordinances, rules, regulations, or orders of any public authority having jurisdiction or disregards an instruction, order, or decision of the **Design Professional**, or otherwise is in breach of any provision of the Contract and has failed to cure such breach after written notice from the **City** specifying 1) the breach, 2) what must be done to cure the breach, and 3) the time within which the breach must be cured, or otherwise is guilty of substantial violation of any provision of the Contract, then the **Contractor** shall be in default, and the **City** may, without prejudice to any other right or remedy and upon written notice to the **Contractor**, temporarily withhold cash payments pending correction of the deficiency, hold the **Contractor** and its sureties liable in damages, require the **Contractor's** sureties to complete the Contract, take possession of all materials, tools, appliances, equipment, construction equipment and machinery and vehicles, offices and other facilities on the Project Site, and all materials intended for the Work, wherever stored, without liability for loss or damage, following which use, the **Contractor** shall be liable for their removal from the site; and, seven (7) days after such notice, may terminate the employment of the **Contractor**, accept assignment of any or all subcontracts pursuant to Paragraph 6.6.1.1, and finish the Work by whatever method the **City** may deem expedient (including but not limited to using the services of another contractor (in which case the **City** shall have no obligation to use a competitive process to obtain the lowest contract prices) and look to the **Contractor** and the **Contractor's** sureties for the difference between the cost to complete the work and the contract sum hereunder.

The **City** shall be entitled to collect from the **Contractor** all direct, indirect, and consequential damages suffered by the **City** on account of the **Contractor's** default, including without limitation additional services and expenses of the **Design Professional** made necessary thereby. The **City** shall be entitled to hold all amounts due to the **Contractor** at the date of termination until all of the **City's** damages have been established, and to apply such amounts to such damages.

18.3.1.1. **HUD Action.** If the **Contractor** is in default, HUD and/or any other administering agency named herein may, with or without the consent of the **City**, cancel, suspend, or terminate this Contract in whole or in part; require the withholding or disallowance all or part of the funding for the project; declare the contractor ineligible for further Government contracts or avail itself of any other remedies available under the law.

18.3.2. (*Reference:* Somerville Municipal Code Chapter 2.117, Section 2.117.110C). In the event the **Contractor** or any of its agents or employees violates any provision of Somerville Municipal Code Chapter 2.117 that is applicable to **City**

contractors in connection with the awarding, administration, or performance of the Contract, the **City** may terminate the sat Contract.

18.3.3. (a) The City may terminate this Contract without cause, at any time, effective upon the date of termination specified by written notice to the Contractor, in which case, the Contractor shall be compensated for: (1) sums due under this Contract incurred up to the date of termination for all Work performed and accepted by the City up to the termination date, calculated on a percentage completion basis covering the period of time between the last approved application for payment and the date of termination using the progress schedule and schedule of values. The Contractor shall use its best efforts to mitigate any expenses and shall in no event incur any new obligations after the date of termination.

(1) Payment by the City as provided in this section shall be deemed to fully compensate the Contractor for all expenses and those of any consultants, subcontractors and suppliers, directly or indirectly attributable to the termination. Lost profits shall not be payable. Any such termination shall not give rise to any cause of action for damages against the City.

(b) **Contractor's Duties Upon Termination For Convenience.** Upon termination of this Contract without cause, the Contractor shall: (1) immediately stop the Work; (2) stop placing orders and Subcontracts in connection with this Contract; (3) cancel all existing orders and Subcontracts (subject to the City providing notice that it accepts assignment of any or all subcontracts pursuant to Paragraph 6.6.1.1); (4) surrender the site to City in a safe condition; and (5) promptly transfer to City all materials, supplies, work in process, appliances, facilities, equipment and machinery of this Contract, and all work product, plans, drawings, specifications and other information and documents used in connection with Services performed under this Contract. Failure by the Contractor to comply with said duties shall relieve the City of its obligation to compensate the Contractor, as provided for under this section.

ARTICLE 19

AMERICANS WITH DISABILITIES ACT (42 U.S. 12131)

19.1. On July 26, 1994, the Americans with Disabilities Act ("the Act") became effective for employers of fifteen or more employees.

19.2. The Act protects against discrimination of the basis of "disability," which is defined as a physical or mental impairment that substantially limits at least one "major life activity;" or discrimination against an individual who has a record of such impairment; or discrimination against an individual being regarded - even if inaccurately - as having such impairment. The Act also expressly prohibits job discrimination that is based on any individual's relationship or association with a disabled person.

19.3. If the **Contractor** is subject to the Act, it must comply with its provisions.

ARTICLE 20

WRITTEN NOTICE TO THE PARTIES

20.1. In General.

20.1.1. All written communications from the **Design Professional** to the **Contractor** shall be copied to the **City**. All written communications from the **Contractor** to the **Design Professional** shall be copied to the **City**. All written communications from the **Contractor** to the **City** shall be copied to the **Design Professional**.

20.2. Addresses.

20.2.1. To the City. Written notice to the **City** shall be sent or hand-delivered to:

Mayor
City of Somerville
93 Highland Avenue
Somerville, MA 02143

City Solicitor
Law Department
93 Highland Avenue
Somerville, MA 02143

Director of Contracting Department (as stated on first page of this Agreement)
City Hall
93 Highland Avenue
Somerville, MA 02143

20.2.2. To the Contractor. Both the address given on the bid form upon which the Agreement is founded and the **Contractor's** office at or near the Site of the Work are hereby designated as places to either of which notices, letters, and other communications to the **Contractor** shall be certified, mailed, or delivered. Delivery of any notice, letter, or other communication to the **Contractor** at or depositing same in a postpaid wrapper directed to either place shall be deemed sufficient service thereof upon the **Contractor**. Written notice shall be deemed to have been duly served on the **Contractor** if it is sent or hand-delivered to any member or officer of the **Contractor**. The date of said service shall be the date of such delivery or mailing. The address may be changed at any time by an instrument in writing, executed and acknowledged by the **Contractor** and delivered to the **City** and to the **Design Professional**. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, letter, or other communication upon the **Contractor** personally. Moreover, any notice, letter, or other communication required under the Contract may be served on the **Contractor's** representative at job meetings. The **Contractor** shall provide the **City** with its change of address seven (7) days prior to its effective date.

20.2.3. To the Design Professional. Written notice to the **Design Professional** shall be sent or hand-delivered to the address appearing on the Project Manual. Written notice shall be deemed to have been duly served on the **Design Professional** if it is sent or hand-delivered to any member or officer of the **Design Professional**.

ARTICLE 21 MISCELLANEOUS PROVISIONS

21.1. Governing Law.

21.1.1. This Contract shall be governed by the laws of the Commonwealth of Massachusetts and the United States of America.

21.2. Venue.

21.2.1. Venue for any court action or proceeding shall be Middlesex County in the Commonwealth of Massachusetts only. The **Contractor**, all Subcontractors, and Suppliers waive any and all jurisdictional and venue defenses.

21.3. Successors and Assigns.

21.3.1. The **Contractor** shall not assign, in whole or in part, its rights and obligations under the Contract Documents without prior written consent of the **City**. An assignment without the prior written consent of the **City** shall not relieve the **Contractor** of its obligations thereunder.

21.3.2. The **City** and the **Contractor** respectively bind themselves, their partners, successors, assigns, and legal representatives to the other party hereto and to partners, successors, assigns, and legal representatives of such other party in respect to covenants, agreements, and obligations contained in the Contract Documents.

21.4. Statutory Limitation Period.

21.4.1. It is expressly agreed that the obligations of the **Contractor** hereunder arise out of contractual duties, and that the failure of the **Contractor** to comply with the requirements of the Contract Documents shall constitute a breach of contract, not a tort, for the purpose of applicable statutes of limitations and repose. Any cause of action which the **City** may have on account of such failure shall be deemed to accrue only when the **City** has obtained actual knowledge of such failure, not before.

21.5. Rights and Remedies.

21.5.1. Duties and obligations imposed by the Contract Documents and rights and remedies available thereunder shall be in addition to and not a limitation of duties, obligations, rights, and remedies otherwise imposed or available by law.

21.5.2. No action or failure to act by the **City**, the **Design Professional**, or the **Contractor** shall constitute a waiver of a right or duty afforded them under the Contract, nor shall such action or failure to act constitute approval of or acquiescence in a breach thereunder, except as may be specifically agreed in writing.

21.6 Severability. In the event that any provision of this Agreement is found to be legally unenforceable, the remainder of the Agreement shall remain in full force and effect.

21.7 Conflict of Interest Laws. The City and the Contractor shall comply with all applicable conflict of interest statutes and regulations.

21.8 If this contract is in excess of \$2,000 and is federally funded, the Contractor shall comply with the Copeland "Anti-Kickback Act" (18 U.S.C. 874 and 29 CFR Part 3), and shall not induce any person employed in the construction, completion, or repair of a public building or public work, to give up any part of the compensation to which he would otherwise be entitled.

21.9. EQUAL EMPLOYMENT OPPORTUNITY/NONDISCRIMINATION

- a) the Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, marital status, sexual orientation, national origin, age, disability, Vietnam Era veteran status or because an employee or applicant is a recipient of federal, state, or local public assistance or housing subsidies; and
 - b) the Contractor shall not discriminate, in any stage of the contract from award to completion, in the selection or retention of subcontractors, suppliers, and materialmen, or in the procurement of materials or supplies, or the rental of equipment, on the basis of race, religion, sex, marital status, sexual orientation, national origin, age, disability, Vietnam Era veteran status, or because an individual is a recipient of federal, state, or local public assistance or housing subsidies; and
 - c) the Contractor shall post an equal employment opportunity notice in conspicuous places at the worksite, shall make copies of such notice available to employees and job applicants, and shall send such notice to each labor union or representative of workers with which the Contractor has a collective bargaining agreement or other contract or understanding; and
 - d) the Contractor shall, to the greatest extent feasible, give employment and on-site training opportunities, to lower-income, minority, women, and disabled members of the local community and shall award subcontracts, when possible, to Minority Business Enterprises (MBE) and Women Business Enterprises (WBE).
- e) the contractor shall include language similar to the above in all subcontracts.

END

PART 3: TECHNICAL SPECIFICATIONS, PLANS AND DETAILS

Traffic Signal Equipment Installation for the Elm-Beacon Connector Quick-Build Project

Scope of Work

The work to be performed under this Contract shall consist of traffic signal equipment procurement and installation plus all incidental work necessary to implement the required traffic control modifications for the installation of parking-protected bicycle lanes on public streets in Somerville, Massachusetts.

The project limits include:

- Elm Street at Russell Street, Summer Street, and Cutter Avenue
- Elm Street at Mossland Street and Cedar Street
- Elm Street at Somerville Avenue
- Somerville Avenue at Beacon Street, Adelaide Road, and Mossland Street
- Additional locations as specifically identified in the Plans

All work under this Contract shall be performed in conformance with the MassDOT 2025 Standard Specifications for Highways and Bridges, the September 30, 2025 MassDOT Supplemental Specifications, the latest edition of the MassDOT Construction Standard Details, the latest edition of the MassDOT Traffic Management Plans and Detail Drawings, the MassDOT Work Zone Safety Temporary Traffic Control standards, the 2023 Manual on Uniform Traffic Control Devices (MUTCD) with Massachusetts Amendments, the City of Somerville Standards and Specifications, the Plans, manufacturer installation guidelines for traffic delineation devices, and these Specifications.

Work does not include roadway reconstruction, full-depth pavement replacement, drainage system modifications, sidewalk reconstruction, curb reconstruction, or utility relocation unless specifically shown on the Plans.

Construction Sequencing and Coordination

DESCRIPTION

This Contract is part of a multi-contract project and shall be coordinated with a separate contract for pavement markings installation. The Contractor shall coordinate all work with the Pavement Marking Contractor and the Engineer to maintain proper sequencing and safe traffic operations at all times.

SEQUENCE OF WORK

The work shall be performed in the following sequence unless otherwise directed by the Engineer:

- 1) The Contractor shall complete field verification of existing conditions.
- 2) The Contractor shall procure all required equipment.
- 3) The Pavement Marking Contractor shall install all pavement markings and traffic signs in accordance with the Plans.

- 4) The Contractor shall complete all signal modifications, including phasing, detection, and timing adjustments.

The Contractor shall not implement any new signal operations until all pavement marking and sign work has been completed in that area, unless otherwise approved by the Engineer.

COORDINATION

The Contractor shall:

- Coordinate all work with the Pavement Marking Contractor and the Engineer
- Provide a minimum of 72 hours advance notice prior to commencing work affecting signal operations
- Sequence work to minimize the duration between installation of markings/signage and completion of signal modifications
- Immediately notify the Engineer of any conflicts with field conditions, signal operations, or other contract work

No additional compensation will be provided for delays, inefficiencies, or impacts resulting from coordination with the Pavement Marking Contractor.

No changes shall be made without approval of the Engineer.

INTERIM TRAFFIC CONTROL

The Contractor shall be responsible for identifying and mitigating any condition that may cause confusion, conflicting movements, or unsafe operations for motorists, bicyclists, or pedestrians during the installation of new traffic signal equipment.

The Pavement Marking Contractor will be responsible for providing temporary traffic control to maintain safe and comprehensible traffic operations where new pavement markings, signage, or delineation are not yet supported by traffic signal modifications.

BASIS OF PAYMENT

All traffic control required to perform the work, including but not limited to cones, signs, barricades, channelization devices, temporary pavement markings, message boards, and other measures necessary to maintain safe traffic operations, shall be included in the Contract bid prices.

No separate payment will be made for coordination, sequencing, or temporary traffic control required to address interim conditions. All costs shall be included in the Contract bid prices.

Specifications

GENERAL

The work to be done through this contract shall conform to the relevant provisions of Section 800 of the 2026 MassDOT Standard Specifications, the 11th edition of the Manual on Uniform Traffic Control Devices (MUTCD), as amended and supplemented herein, the Plans, 2024 MBTA Transit Signal Priority and Signal Performance Measures Technical Specification Standard, and these Special Provisions.

The work shall include furnishing and installing all or part of the following and all related materials and labor to complete the work including any removals in accordance with the Plans.

List of major traffic signal items required is included in the Plans. In addition to listed items, the contractor is expected to furnish and install all miscellaneous incidental labor and materials in order to construct a functional traffic signal in accordance with the design plans.

MATERIALS

- A. All work and materials shall conform to the relevant provisions of the 2026 *Standard Specification for Highways and Bridges*, MassDOT and as specified herein.

The Contractor shall be responsible for verifying that the attached standard specifications and drawings included herein are current.

The work consists of reconstruction of existing traffic control signals at the following intersections:

- Elm Street at Russell Street, Summer Street, and Cutter Avenue
- Elm Street at Mossland Street and Cedar Street
- Elm Street at Somerville Avenue
- Somerville Avenue at Beacon Street, Adelaide Road, and Mossland Street

SHOP DRAWINGS

Within 30 days following execution of the Contract, the Contractor shall submit shop drawings for a list of equipment and manufacturer's equipment specifications to the Engineer.

No work shall be commenced by the Contractor until approval of the shop drawings and manufacturer's data has been received in writing from the Engineer. Approval of these drawings will be general in character and shall not relieve the Contractor from the responsibility of, or the necessity of, furnishing the materials and workmanship conforming to the plans and specifications.

The Contractor shall deliver to the Engineer a certificate of compliance with the manufacturer for all materials purchased from the manufacturer to certify the use of new materials.

SUBMITTALS

Catalog cuts for all traffic signal control equipment used on the project shall be provided to the Engineer or their designees for review and approval prior to ordering any equipment.

TRAFFIC SIGNAL SERVICE CONNECTION

A new electrical service may be required for this project. The service connection shown on the plans is approximate only. The Contractor shall determine the exact location from the servicing utility, arrange to complete the service connections, coordinate with the servicing utility company for installation of a new service meter to the new controller cabinet, and be responsible for all charges incidental thereto including installation of transformers if required. Underground power conductors shall be in a separate conduit from traffic signal conductors, but the conduits for each, can be located within the same trench. The servicing utility will furnish connection and power at the location shown on the Contract Drawings. The Contractor shall be responsible for discontinuing existing service connections, if applicable.

The Contractor shall supply and install the conduit and wires from the controller cabinet to the

utility pole, electric manhole, or both which will supply electrical service to the controller cabinet. When the conduit is located crossing roadways that are outside of the full depth construction areas, controlled density fill (CDF) shall be used to backfill the trench.

Materials – Service Connection Cable and Wiring from the National Grid electric manhole to the new traffic signal shall consist of 2 AWG copper conductors, insulated with cross-linked polyethylene (XLPE) and provided with an overall polyethylene or CPE jacket, rated 600 volts. The cable shall be listed for 600-volt power distribution use in accordance with UL 44 and shall be suitable for installation in underground conduit for use in wet locations.

No work shall be performed by the Contractor, in manholes or on power poles without a representative of the servicing utility being present. The Contractor will be responsible for coordinating the utility work. It shall also be the Contractor's responsibility to pay all charges to the utility for performing this work. No direct reimbursement will be made to the Contractor under this Contract, for payments made to the utility company, it being understood that full compensation for any payment made by the Contractor to the utility company will be included in the Contract bid items. No additional cost will be provided for Conduit of a larger size or different Material than as provided for under the Contract Item 804.3.

CONSTRUCTION METHODS

The Contractor shall coordinate work with local utilities to adjust, rebuild, reset, or relocate all private utilities required by the scope of work and as directed by the Engineer.

The Contractor's attention is directed to the necessity of making their own investigation in order to assure that no damage to existing structures, drainage lines, traffic signal conduits, etcetera, will occur.

The Contractor shall notify Massachusetts DIG SAFE and procure a Dig Safe Number for each location prior to disturbing existing ground in any way. The telephone number of the Dig Safe Call Center is 1-888-344-7233.

TEMPORARY TRAFFIC CONTROL AND MAINTENANCE OF TRAFFIC

The Contractor shall furnish, install, maintain, relocate, and remove all temporary traffic control devices and maintenance of traffic measures necessary to safely complete the work and maintain vehicular, bicycle, and pedestrian operations throughout all phases of construction.

Temporary traffic control shall conform to the MassDOT Work Zone Safety Temporary Traffic Control Standards, the MUTCD with Massachusetts Amendments, the Plans, and these Specifications.

No separate payment will be made for temporary traffic control items. All temporary traffic control, maintenance of traffic operations, sequencing coordination, interim traffic operations, temporary bicycle accommodations, temporary pedestrian accommodations, and related work shall be included in the Contractor's bid prices.

TEMPORARY TRAFFIC SIGNAL OPERATIONS

The Contractor is required to maintain existing vehicular operations and pedestrian operations during the construction period and provide American with Disabilities Act (ADA) compliant pedestrian accommodations when necessary to redirect pedestrians during construction

activities. This includes, but is not limited to furnishing, installing, removing, and resetting: temporary signal foundations; signal posts; vehicle indications; pedestrian indications; pedestrian push buttons; vehicle detection by inductive loop or video; temporary electric power; and any other elements to provide traffic operations that are reasonably similar to the existing traffic operations. Construction activities may also require the Contractor to modify existing intersection timing/phasing. Prior to modifying intersection timing/phasing, the Contractor shall submit for approval to the Engineer a traffic signal schedule showing the revisions. All costs associated with the installation, operation and removal of temporary traffic signals shall be included in the Contractor's bid prices.

CONTROLLER MODIFICATIONS

The Contractor shall modify the existing controller assembly to provide the revised operation as shown on the plans. The modification shall include but not be limited to revisions to the timing and sequence, cabinet wiring as well as providing equipment such as load switches, BIU's, and video detection required to modify the existing controller as shown on the plans. All material shall be new and compatible with the existing equipment. The Contractor shall provide updated cabinet wiring diagrams to the Engineer. No separate payment will be made for controller modifications, all costs shall be included in the Contract bid prices.

ITEM 800.1 CONDUIT REPAIR

ALLOWANCE

The work shall conform to the relevant provisions of Section 800 of the MassDOT Standard Specifications and the following:

The work shall include the investigation of existing conduit conditions to determine the feasibility of repurposing the existing conduit for the replacement of traffic signal cabling. If the existing conduit system is determined to be compromised and is incapable of reuse, the contractor shall furnish and install the replacement of broken, blocked, or deteriorated conduit for traffic signal systems for the purpose of the installation and maintenance of a working traffic signal in accordance with the plans and as directed by the Engineer at the following intersections:

- Elm Street at Russell Street, Summer Street, and Cutter Avenue
- Elm Street at Mossland Street and Cedar Street
- Elm Street at Somerville Avenue
- Somerville Avenue at Beacon Street, Adelaide Road, and Mossland Street

Breaking into existing pull boxes to install proposed conduit shall be included under this item.

The replacement conduit material shall be Schedule 80 polyvinyl chloride (PVC) plastic conduit with a minimum 3" diameter with final approval from the Engineer.

Material and labor for concrete, asphalt, and other material repairs along with trenching, material removal, and backfill required in order to complete the conduit repair shall be included in Item 800.11. Existing conduit may be abandoned at the discretion of the Engineer.

The linear foot of conduit is included as an allowance due to the unknown conditions of the existing system. Final determination of replacement shall be coordinated with the Engineer.

Where more than one conduit is installed in a single trench, the additional costs associated with the second conduit, the excavation and backfill of trenches shall be deemed incidental and included in the price bid for Item 800.11 as a single trench.

BASIS OF PAYMENT

Payment shall be at the Contract Unit Price and includes furnishing all materials and labor necessary or incidental to investigate, repair, and install the conduit. Breaking into existing pull boxes to install proposed conduit shall be considered incidental to this item.

ITEM 804.3 3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC (UL) FOOT

The work for Item 804.3 shall conform to the relevant provisions of Section 801 of the MassDOT Standard Specifications.

BASIS OF PAYMENT

The unit contract price per foot shall be full compensation for furnishing and installing all required conduits, couplings, expansion fittings, elbows, bends, caps, sleeves, clamps, hangers, reducers, tees, jointing compound, sealing compound, cement concrete, and gravel plus all excavation or jacking, backfilling of trenches, chipping or sawing of pavement, bedding or hanging of conduit, or any other work that may be incidental to the construction of the conduit system.

ITEM 812.31 PEDESTAL SIGNAL POST FOUNDATION EACH

The work for Item 812.31 shall conform to the relevant provisions of Section 801 of the MassDOT Standard Specifications.

BASIS OF PAYMENT

The accepted quantities of signal and lighting foundations (including anchor bolts) will be paid for at the contract unit price each.

ITEM 813.21 TRAFFIC SIGNAL CABLE – TYPE 1 FOOT

The work for Item 813.21 shall conform to the relevant provisions of Section 813 of the MassDOT Standard Specifications.

BASIS OF PAYMENT

All cable will be measured by the foot, the measurement being made along the center line of the conduit in which the conductor is placed. No allowance will be made for the necessary lengths of slacked cable laid around the sides of manholes, hand holes, junction boxes, pull boxes, or extending from foundations for making splices, taps in cable, and connecting the internal components of control cabinets.

ITEM 816.4 TRAFFIC CONTROL SIGNAL REMOVED AND RESET
(PED OR VEHICLE INDICATION) EACH

ITEM 816.8 TRAFFIC CONTROL SIGNAL REMOVED AND STACKED
(PED OR VEHICLE INDICATION) EACH

ITEM 816.801 TRAFFIC CONTROL SIGNAL REMOVED AND STACKED (POLE) EACH

The work for Items 816.4, 816.8, and 816.801 shall conform to the relevant provisions of Section 815 of the MassDOT Standard specifications for the removal and reset of signal heads and the removal and stacking of signal heads or signal poles.

Item 816.801 shall include removal and stacking of the following as per the Plans:

- 8 foot signal poles on Elm Street at Russell Street
- Rectangular Rapid Flashing Beacon on Elm Street at Beech Street

BASIS OF PAYMENT

Payment shall be at the Contract Unit Price and includes all materials and labor necessary or incidental to remove and reset signal heads, remove and stack signal heads, or remove and stack signal poles.

ITEM 818.03 SIGNAL HEAD 1 WAY, THREE SECTION 8 INCH LENS EACH

The work shall conform to the relevant provisions of Section 815 of the MassDOT Standard Specifications and the following:

The work shall include the procurement and installation of a 1-way, 3-section signal head with 8-inch bicycle lenses in accordance with the plans and as directed by the Engineer at the following intersections:

- Elm Street at Russel Street, Summer Street, and Cutter Avenue
- Elm Street at Somerville Avenue

BASIS OF PAYMENT

Payment shall be at the Contract Unit Price per signal head and includes furnishing all materials and labor necessary or incidental for installation.

ITEM 818.13 SIGNAL HEAD 1 WAY, THREE SECTION 12 INCH LENS EACH

The work shall conform to the relevant provisions of Section 815 of the MassDOT Standard Specifications and the following:

The work shall include the procurement and installation of a 1-way, 3-section signal head with 12-inch lenses in accordance with the plans and as directed by the Engineer at the following intersections:

- Elm Street at Russell Street, Summer Street, and Cutter Avenue
- Elm Street at Mossland Street and Cedar Street
- Elm Street at Somerville Avenue

- Somerville Avenue at Beacon Street, Adelaide Road, and Mossland Street

Lenses may be standard, right arrow, left arrow, or bicycle as indicated on the Plans.

BASIS OF PAYMENT

Payment shall be at the Contract Unit Price per signal head and includes furnishing all materials and labor necessary or incidental for installation.

ITEM 818.15 SIGNAL HEAD 1 WAY, FIVE SECTION 12 INCH LENS

EACH

The work shall conform to the relevant provisions of Section 815 of the MassDOT Standard Specifications and the following:

The work shall include the procurement and installation of a 1-way, 5-section signal head with 12-inch bicycle lenses in accordance with the plans and as directed by the Engineer at intersection of Elm Street and Somerville Avenue.

Lenses may be standard, right arrow, or left arrow as indicated on the Plans.

BASIS OF PAYMENT

Payment shall be at the Contract Unit Price per signal head and includes furnishing all materials and labor necessary or incidental for installation.

ITEM 818.112 12 INCH LENS REPLACEMENT

EACH

The work shall conform to the relevant provisions of Section 815 of the MassDOT Standard Specifications and the following:

The work shall include the procurement and replacement of existing 12 inch LED traffic signal indication lens in accordance with the plans and as directed by the Engineer in at the following intersections:

- Elm Street at Russel Street, Summer Street, and Cutter Avenue
- Elm Street at Somerville Avenue

Each lens shall be compatible with the existing traffic signal head. Any incidental damage to the existing infrastructure during installation shall be repaired at no additional cost to the project.

BASIS OF PAYMENT

Payment shall be at the Contract Unit Price and includes furnishing all materials and labor necessary or incidental to install the new traffic signal indication lens and remove and dispose of the existing traffic signal lens.

ITEM 817.01 SIGNAL POST ONLY – 10 FOOT	EACH
ITEM 817.21 SIGNAL POST AND BASE PEDESTAL – 10 FOOT	EACH
ITEM 818.42 PEDESTRIAN SIGNAL HEAD	EACH
ITEM 818.82 BACK-PLATES FOR 8 INCH AND 12 INCH SIGNAL HEADS	EACH
ITEM 819.850 PEDESTRIAN PUSH BUTTON	EACH

Items 817.01, 817.21, 818.42, 818.82, and 819.850 shall conform to the relevant provisions of Section 815 of the MassDOT Standard Specifications.

BASIS OF PAYMENT

Payment shall be at the Contract Unit Price and includes furnishing all materials and labor necessary or incidental for installation.

ITEM 819.3 GPS UNIT	EACH
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The work shall conform to the relevant provisions of Section 815 of the MassDOT Standard Specifications and the following:

The work shall include the procurement and installation of a Global Positioning System (GPS) unit that provides accurate time-of-day information for the traffic signal controllers to implement a coordinated traffic control network in accordance with the plans and as directed by the Engineer in at the following intersections:

- Elm Street at Somerville Avenue
- Somerville Avenue at Beacon Street, Adelaide Road, and Mossland Street

The GPS unit shall be compatible in operating with the proposed and existing traffic signal infrastructure to remain and shall meet all applicable City of Somerville specifications. The Contractor shall submit the proposed GPS unit to the Engineer for review and approval prior to furnishment and installation.

BASIS OF PAYMENT

Payment shall be at the Contract Unit Price and includes furnishing all materials and labor necessary or incidental to install and test the GPS unit in good working order.

ITEM 819.53 EMERGENCY PRE-EMPTION SYSTEM	EACH
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The work for Item 819.53 shall include the procurement and installation of pre-emption confirmation beacons, 1-way optical detectors, and any other equipment needed to provide a line-of-sight based emergency pre-emption system at the intersection of Elm Street, Russell Street, Summer Street, and Cutter Avenue.

The equipment provided shall be compatible with existing equipment in the City’s emergency vehicle fleet.

BASIS OF PAYMENT

Payment shall be at the Contract Unit Price and includes furnishing all materials and labor necessary or incidental to install and test the line-of-sight based emergency pre-emption system in good working order.

ITEM 819.840 VIDEO DETECTION CORE
AND CAMERA SYSTEM (ASSUME 1 CAMERA) EACH

ITEM 819.841 ADDITIONAL VIDEO DETECTION
CAMERA (360 OR APPROACH) EACH

The work under items 819.840 and 819.841 shall conform to the relevant provisions of Section 815 of the Standard Specifications for Traffic Control Signals.

Multi-camera systems shall include three cameras to provide coverage for the four vehicular-detection and one combined vehicular-bicycle detection zones at Elm Street at Russel Street, Summer Street, and Cutter Avenue; four cameras to provide coverage for the two-vehicular detection, three bicycle detection, and one combined vehicular-bicycle detection zones at Elm Street at Mossland Street and Cedar Street; three cameras to provide coverage for the two-vehicular detection, four bicycle detection, and two combined vehicular-bicycle detection zones at Elm Street at Somerville Avenue; and four cameras to provide coverage for the eight-vehicular detection, three bicycle detection, and three combined vehicular-bicycle detection zones at Somerville Avenue at Beacon Street, Adelaide Road, and Mossland Street.

Each location shall include NEMA TS-2 compliant video processor unit, detection algorithms, all cables, connections, mounting hardware, application software, and accessories required by the manufacturer for proper operation of the system, including but not limited to surge protection devices.

System Hardware

The video detection system shall consist of one or more video cameras and a detection core for processing. Processing units shall be NEMA TS-2 Compliant with UL certified power source. They shall include 64-channel SDLC and have an RS-232 port for communications with an external computer.

System Software

The system shall include software that detects vehicles in a single lane or multilane detection over four multiple lanes. An unlimited number of detection zones shall be available. The software shall be on a secure platform which provides wireless connectivity and connectivity via Ethernet or existing fiber. If the software uses an annual pricing model, assume a one-year license.

Functional Capabilities

The detection core shall detect vehicles in real time as they travel across each detector zone.

The camera system shall be able to offer detection, with minimal signal degradation, up to 500 feet under ideal conditions.

The system shall be capable of image compensation, including Back light compensation (BLC), fog compensation, high light compensation (HLC), and digital noise reduction.

Vehicle Detection

Each detection zone shall be user definable in size and shape to suit the site, the desired vehicle detection region and provide the proper phasing and operation.

A single video detection zone shall be able to replace multiple inductive loops on a single approach. Detection zones across multiple lanes can be combined to create a one detection zone that accommodates a single phase.

Detection zone setup shall not require site specific information such as latitude, longitude, date, and time to be entered into the system.

Detection zone outputs shall be configurable to allow the selection of presence and pulse detection.

Detection Core

The detection core shall operate in a temperature range from -34°C to +74°C and a humidity range from 0% RH to 95% RH, non-condensing.

The detection core shall be UL and cUL certified and shall be compliant to NEMA TS2 environmental requirements. It shall have an input power supply of 89 to 240 VAC, 47 to 63 Hz uninterrupted. It shall have an output of 48 VDC at 135W.

The detection shall have a minimum of 1 second hold up for power loss events.

The detection core shall include detection indications, such as LED's, indicating the status of the core such as operation and internet connectivity.

Video Detection Camera

The video cameras used for traffic detection shall be furnished by the detection core supplier.

The camera shall produce a useable video image of vehicular bodies under all roadway lighting conditions, regardless of time of day. The minimum range of scene luminance over which the camera shall produce a useable video image shall be the minimum range from nighttime to daytime and shall be capable of producing video in color or black and white. The minimum illumination of the color output shall be 0.03 lux, and in black and white shall be 0.004 lux.

The camera shall include a variable focal length lens with variable focus that can be adjusted, without opening up the camera housing, to suit the site geometry.

The sensor shall have 360 degree fisheye lens, with a minimum angular field of view of 182 degrees horizontal and 176 degrees vertical. The front of the detection zone shall be up to 150 feet from the camera, and have a tracking radius of up to 190 feet.

The camera enclosure shall be equipped with a sunshield.

When mounted outdoors in the enclosure, the camera shall operate satisfactorily in a temperature range from -34 °C to +74 °C and a humidity range from 5% to 95%.

The camera shall be powered by 48 V: 270mA. Power consumption shall be less than 15 watts.

The maximum shutter speed shall be 16/30s to 1/10000s.

Recommended camera placement height shall be at least 30 feet above the roadway. For optimum detection the camera should be centered above the traveled roadway. The camera shall view approaching vehicles at a distance not to exceed 200 feet for reliable detection. Camera placement and field of view (FOV) shall be unobstructed and as noted in the installation documentation provided by the supplier.

Approach Detection Camera

The video cameras used for advanced traffic detection shall be furnished by the detection core supplier.

The camera shall produce a useable video image of vehicular bodies under all roadway lighting conditions, regardless of time of day. The minimum range of scene luminance over which the camera shall produce a useable video image shall be the minimum range from nighttime to daytime. The minimum illumination shall be 0.011 lux in color.

The horizontal field of view shall have a horizontal field from a minimum of 11 degrees (tele) to 36 degrees (wide), and a vertical view from 9 degrees (tele) to 20 degrees (wide), depending on the aspect ratio in use. A single camera configuration shall be used for each approach direction, with a range from 200 feet of up to 500 feet away from the camera.

The camera enclosure shall be equipped with a sunshield. The camera shall be capable of autofocus.

When mounted outdoors in the enclosure, the camera shall operate satisfactorily in a temperature range from -34 °C to +74 °C and a humidity range from 5% to 100%.

The camera shall be powered by 48 V 220mA. Power consumption shall be less than 12 watts.

There shall be multiple shutter speed modes available, with a maximum shutter speed from 1/60 Fix to 1/10000 Fix.

Recommended camera placement height shall be at least 30 feet above the roadway. For optimum detection the camera should be centered above the traveled roadway. Camera placement and field of view (FOV) shall be unobstructed and as noted in the installation documentation provided by the supplier.

Testing of Cameras

The testing of operations shall be performed in the presence of the Engineer before and after the camera detection is used. The cost of equipment, labor, and materials to perform such testing and similar re-testing following repairs, replacement, or adjustment of any camera within the project area shall be included in the contract unit price for this Item.

After installation of cameras above the roadway each camera shall be tested (at the controller cabinet) for proper installation.

Limited Warranty

The supplier shall provide a three-year warranty on the entire video detection system (equipment and software).

METHOD OF MEASUREMENT and BASIS OF PAYMENT

The work under Items 819.840 and 819.841 will be paid for at the contract unit prices, which shall include all labor, material, equipment, and incidental costs required to complete work.

No separate payment will be made for maintenance of the existing operations, and the removal and stacking of existing or temporary traffic signal equipment, but all costs in connection therewith shall be included in the respective Each prices.

ITEM 888.0 TRANSIT SIGNAL PRIORITY SYSTEM

EACH

Under Item 888.0, the Contractor shall provide a Transit Signal Priority System. The system shall conform to the relevant Massachusetts Bay Transportation Authority (MBTA) Technical Specification and the specifications described herein. The Transit Signal Priority System shall also be able to detect and preempt vehicles in the City's emergency response fleet.

The Transit Signal Priority System shall be installed at the following signalized intersections:

- Location No. 1 – Elm Street/Russell Street/Summer Street
- Location No. 2 – Cedar Street at Elm Street
- Location No. 3 – Somerville Avenue at Elm Street
- Location No. 4 – Somerville Avenue/Beacon Street/Mossland Street

Transit Signal Priority Capability – The Pre-Defined Geofencing System installed on Transit Buses shall be able to operate with the TSP equipment installed in each of the Traffic Signal Controller Cabinets, which shall include a Field Monitoring Unit (FMU) with 4G LTE Cellular Modem with Antenna and a Transit Signal Priority Relay. The TSP System shall be compatible with the existing ATC controllers at each location.

The FMU is shelf mounted and shall be installed in the traffic control signal cabinet. The modem is connected to the TSP relay using a 9-pin serial cable. The TSP relay is connected to one or more of the 6 PRE-EMPTION inputs, that are included on the backpanel of the NEMA TS2 Type 1 controller cabinet. The TSP Relay has four output terminals. Typically, not all four outputs are utilized on a transit route. Transit routes usually operate along a mainline route, therefore two pre-emption inputs, one for each direction of the route are required and are connected to the TSP Relay. One or more of the pre-emption inputs is configured to a specific phase (The specific phase is referred to as the TSP phase). The antenna is a low profile omni-directional antenna mounted on top of the controller cabinet. The installation of the antenna requires a hole to be drilled to allow the antenna cable to enter the cabinet that is connected to modem. To complete the installation of the antenna, the area around the antenna shall be waterproofed using silicon sealants.

The TSP system shall be compatible with, and never override, an Emergency Vehicle Priority System (EVP) or Railroad pre-emption call.

TSP System Components

The components for this intersection shall meet the STANDARD level as described in Table 1 the Technical Specification and as follows:

- The traffic signal controller shall be a NEMA Standard ATC Controller that includes a high-resolution data logger mounted in a NEMA TS2 Standard Serial cabinet.

- Per NTCIP 1202, Version 2, the following operational data shall be retrievable from the controller:

PHASE BEGIN GREEN
PHASE BEGIN YELLOW CLEARANCE
PHASE END YELLOW CLEARANCE
DETECTOR CHECK-IN (FOR TSO VIRTUAL DETECTORS)
DETECTOR CHECK-OUT (FOR TSO VIRTUAL DETECTORS)
TSP CHECK-IN
TSP CHECK-OUT
TSP TYPES
TSP DENIED REASON
PRIORITY PARAMETER
DETECTOR CHECK-IN
DETECTOR CHECK-OUT
PHASE GAP OUT
PHASE MAX OUT
PHASE FORCE OFF

- Primary Interfaces between the (1) Priority Request Generator (PRG) and Priority Request Server (PRS) and (2) PRS and the traffic signal controller. The primary interfaces shall conform to NTCIP 1211 Standard, Version v02.
- PRG shall be capable of receiving, processing, and evaluating AVL data to determine the transit vehicle location relative to the TSP detector locations. Active *AVL Stream* is provided by MBTA's API accessible via www.mbta.com/developers
- The TSP System shall have the capability to update controller with updated ETA values at least 3 times per transit vehicle approach.
- The minimum required functionality capability of hardware and software shall conform to ATC 5201 v06A.37.
- Communications and reporting shall conform to the following:
 - Communications shall be made via modem to the cloud.
 - All communications shall be compliant with relevant NTCIP standards.
 - All communications to support this capability shall conform to Internet Protocol (IP) standards.
 - All hardware shall be capable of continuous full-time IP communications.
 - Communications shall be dedicated to the TSP function.
- Licensing shall be provided by a decentralized system which optimizes each intersection individually and share information with neighboring intersections to create coordination and control across the whole network. The licensing shall provide real-time traffic response; shall be scalable to any size and shape of network; shall integrate vehicle, pedestrian, bus, and bicycle traffic flow according to pre-specified

priorities; and shall be connected and autonomous vehicles. The licensing shall be compatible with the existing infrastructure at the project locations.

- Virtual Bus Detector Methodology shall conform to the following:
 - For each intersection approach, where possible, virtual geofence detectors shall be established. The length of the detector shall be sized to capture the necessary number of GPS pings from the bus. The length of the detector shall be calculated using the formula shown below:
$$L = v * (n-1) * f * 1.467$$

L = recommended detector length, rounded up to the nearest 50 feet
v = average transit vehicle speed, (mph)
N = number of pings needed to locate the bus and its direction of travel
F = bus ping frequency (seconds)
 - The geofence detectors shall be established at the following locations:
 - ½ mile upstream from the traffic signal
 - ¼ mile upstream from the traffic signal
 - At the stop bar (detector length to be measured from the stop bar)
 - On the downstream side of the approach to be used as a checkout

TSP System Rules

TSP shall be programmed based on the TSP Plans included in this bid package and must also adhere to the following rules:

- Red, Yellow, Hand, Flashing Hand are never shortened to grant TSP priority
- Minimum green times MUST be satisfied.
- TSP requests CANNOT override preemption requests from emergency vehicles or train at grade crossings
- TSP priority for this project are:
 - Extended Green Time priority
 - Early Green priority
- Extended or Early green cannot exceed 20 seconds.
- Cycle Length shall be maintained as defined within the signal schedules.

The maximum a phase can be reduced by, and not infringe on, its minimum green and pedestrian durations is its entire spare green.

- A smaller maximum may be used if necessary to prevent excessive impact to other road users. The maximum reduction setting is programmed into the controller, which can then shorten phases by up to this amount to serve a transit vehicle on another approach.

The maximum a phase can be extended by is the sum of the maximum reductions on all other nonconcurrent phases.

- A smaller maximum may be used if necessary to prevent excessive impact to other road users. The maximum extension setting is programmed into the controller, which can then lengthen a phase by up to this amount to serve a transit vehicle on that approach.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

The work under Item 888.0 shall be paid for at the contract unit price. The cost shall include furnishing the FMU, cellular modem, antenna, cables, connections, fittings, and all other cabinet incidentals in addition to all cloud-based components necessary to provide for a fully functioning TSP system per each intersection. The cost includes connection and integration of the Whelen Cloud Platform to support EVP service at these same intersections. This price shall also include the programming, installing, training, documentation, testing, and fine tuning to complete the work. The TSP System shall be paid for at an initial 3-year service period.

No separate payment will be made for maintenance of the existing installation, and the removal and stacking of existing or temporary traffic signal equipment, but all costs in connection therewith shall be included in the respective Each prices.

ITEM 888.1 TRAFFIC POLICE

ALLOWANCE

The Contractor shall provide such police officers as the Engineer deems necessary for the direction and control of traffic within the site of the improvement. Such officers shall wear regulation policemen's uniforms. Compensation for the services of said police officers to be paid by the Contractor to a designated municipal official, at a patrolman's rate of pay, subject to all rules and regulations, ordinances or by-laws in effect in the City of Somerville.

The Contractor is required to submit weekly certified copies of payroll, covering such police officers, containing complete payroll information and payment receipts.

The City of Somerville will reimburse the Contractor for payments made for the services of all required traffic officers upon receipt of payment.

CITY OF SOMERVILLE MOBILITY DIVISION

PLANS FOR THE
ELM STREET-BEACON STREET CONNECTOR
SEPARATED BIKE LANE QUICK-BUILD
IN THE CITY OF
SOMERVILLE
MIDDLESEX COUNTY

FEDERAL AID PROJECT NO. N/A

PS&E SUBMITTAL

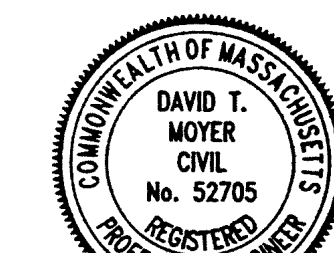
**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	1	32
PROJECT FILE NO.		N/A	

TITLE SHEET & INDEX



4/27/2026
2025005
Robbie Burgess



4/27/2026
David T. Moyer

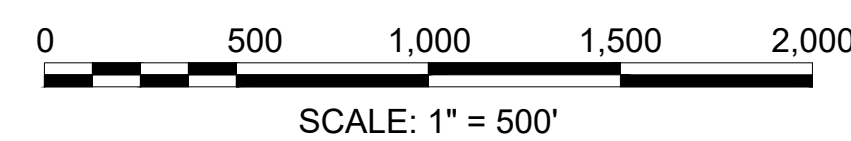
(APPLIES TO SHEETS 21-28)

(APPLIES TO SHEETS 1-20, 29-32)

THESE PLANS ARE SUPPLEMENTED BY THE LATEST EDITIONS OF THE FOLLOWING PUBLICATIONS, AS IDENTIFIED IN THE CONTRACT SPECIAL PROVISIONS: THE MASSDOT CONSTRUCTION STANDARD DETAILS, THE MASSDOT STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, THE MASSDOT STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, THE MASSDOT OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, THE MASSDOT TRAFFIC MANAGEMENT PLANS AND DETAIL DRAWINGS, AND THE ANSI AMERICAN STANDARD FOR NURSERY STOCK.

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET & INDEX
2	LEGEND & ABBREVIATIONS
3	GENERAL NOTES
4	KEY PLAN
5-6	TYPICAL SECTIONS
7-17	TRAFFIC SIGN & PAVEMENT MARKINGS
18-20	TRAFFIC SIGN SUMMARY SHEET
21-28	TRAFFIC SIGNAL PLANS
29-30	TEMPORARY TRAFFIC CONTROL PLANS
31-32	CONSTRUCTION DETAILS



LENGTH OF PROJECT = 7,100 FEET = 1.35 MILES

DESIGN DESIGNATION (ELM STREET)

DESIGN SPEED	25 MPH
ADT (2024)	8,650
ADT (2026)	8,650
K	8.6%
D	53% EB
T (PEAK HOUR)	0.54%
T (AVERAGE DAY)	1.45%
DHV	740
DDHV	390
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL

DESIGN DESIGNATION (SOMERVILLE AVENUE)

DESIGN SPEED	25 MPH
ADT (2024)	11,020
ADT (2026)	11,020
K	8.3%
D	56% WB
T (PEAK HOUR)	0.39%
T (AVERAGE DAY)	2.44%
DHV	910
DDHV	510
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL

DATE	DESCRIPTION	REV #

City of **Somerville**

APPROVED



neighborwaysdesign

PROFESSIONAL ENGINEER

DATE

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		JERSEY BARRIER
		CATCH BASIN
		CATCH BASIN CURB INLET
		FLAG POLE
		GAS PUMP
		MAIL BOX
		POST SQUARE
		POST CIRCULAR
		WELL
		ELECTRIC HANDHOLE
		FENCE GATE POST
		GAS GATE
		BORING HOLE
		MONITORING WELL
		TEST PIT
		HYDRANT
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE
		TRANSMISSION POLE
		UTILITY POLE W/ FIREBOX
		UTILITY POLE WITH DOUBLE LIGHT
		UTILITY POLE W / 1 LIGHT
		UTILITY POLE
		BUSH
		TREE
		STUMP
		SWAMP / MARSH
		WATER GATE
		PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS (ON-THE-GROUND SURVEY DATA)
		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		GUARD RAIL - DOUBLE FACE - STEEL POSTS
		GUARD RAIL - DOUBLE FACE - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		HAY BALES/SILT FENCE
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

TRAFFIC SIGNAL SYMBOLS

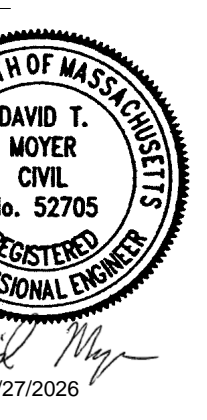
PROPOSED	EXISTING (TO REMAIN)	REMOVE/ABANDON	DESCRIPTION
			CONTROLLER CABINET
			SIGNAL POST
			MAST ARM
			VEHICULAR SIGNAL
			PEDESTRIAN SIGNAL
			EMERGENCY PREEMPTION CONFIRMATION STROBE LIGHT
			OPTICAL PRE-EMPTION DETECTOR
			PEDESTRIAN PUSH BUTTON
			AUDIBLE PEDESTRIAN PUSH BUTTON
			HANDHOLE
			CONDUIT
			LOOP DETECTOR
			APPROACH VIDEO DETECTION CAMERA
			360 DEGREE VIDEO DETECTION CAMERA

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		STOP LINE
		CROSSWALK LINE
		SOLID WHITE LINE
		SOLID YELLOW LINE
		BROKEN WHITE LINE
		BROKEN YELLOW LINE
		DOTTED WHITE LINE (2' LINE, 6' GAP)
		DOTTED YELLOW LINE (2' LINE, 6' GAP)
		DOTTED WHITE LINE EXTENSION (2' LINE, 6' GAP)
		DOTTED YELLOW LINE EXTENSION (2' LINE, 6' GAP)
		DOUBLE WHITE LINE
		DOUBLE YELLOW CENTER LINE
		SOLID YELLOW CHANNELIZING LINE
		SOLID WHITE CHANNELIZING LINE
		FLEX POST (TUFF CURB XLP)
		FLEX POST (ANCHOR BOLT)

ABBREVIATIONS

GENERAL	
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CB	CATCH BASIN
CBCL	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
M&O	MILL & OVERLAY
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCR	PEDESTRIAN CURB RAMP
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY



**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	02	32

LEGEND & ABBREVIATIONS

ABBREVIATIONS (cont.)

GENERAL	
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

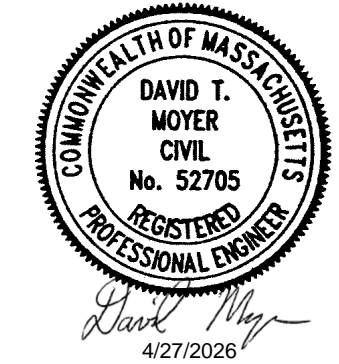
TRAFFIC SIGNAL ABBREVIATIONS

CAB	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY UPRAISED HAND
FDW	FLASHING UPRAISED HAND
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW
FYR	FLASHING YELLOW RIGHT ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY GREEN LEFT ARROW
GR	STEADY GREEN RIGHT ARROW
GSL	STEADY GREEN SLASH LEFT ARROW
GSR	STEADY GREEN SLASH RIGHT ARROW
GV	STEADY GREEN VERTICAL ARROW
OL	OVERLAP
PED	PEDESTRIAN
PTZ	PAN, TILT, ZOOM
R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALKING PERSON
Y	STEADY CIRCULAR YELLOW
YL	STEADY YELLOW LEFT ARROW

SOMERVILLE
ELM-BEACON CONNECTOR

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	03	32
PROJECT FILE NO.		N/A	

GENERAL NOTES



GENERAL NOTES

1. BASE MAPPING WAS PREPARED FROM AUTOCAD GEOLOCATION AERIAL IMAGERY, CITY OF SOMERVILLE GIS DATA, AND FIELD MEASUREMENTS.
2. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION.
3. THE CONTRACTOR SHALL CAUSE AS LITTLE INTERFERENCE AND INCONVENIENCE AS POSSIBLE TO ABUTTERS. THE CONTRACTOR SHALL MAINTAIN SAFE AND CONVENIENT ACCESS TO PRIVATE PROPERTY AT ALL TIMES. EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES.
4. CONTRACTOR SHALL BE LIMITED TO CONSTRUCTION ACTIVITIES WITHIN THE IDENTIFIED LIMITS OF WORK AS SHOWN ON THE PLANS, OR AS DIRECTED TO DO SO BY THE ENGINEER.
5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY AND APPLICABLE AGENCIES PRIOR TO COMMENCING WORK.
6. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, REGULATIONS AND SAFETY CODES IN THE CONSTRUCTION OF ALL IMPROVEMENTS. SIGN AND STRIPING WORK SHALL ALSO MEET ALL APPLICABLE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
7. THE CONTRACTOR SHALL VERIFY BASE MAPPING IN THE FIELD PRIOR TO PERFORMING ANY CONSTRUCTION ACTIVITIES OR PLACING STRIPING OR SYMBOLS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO START OF WORK. WHEN THESE PLANS ARE IN CONFLICT WITH ACTUAL SITE CONDITIONS, THE CONTRACTOR SHALL CONTACT THE CITY AND ENGINEER. PROPOSED STRIPING MAY ONLY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
8. EXISTING PEDESTRIAN RAMP LOCATIONS ARE NOT SHOWN. EXISTING PEDESTRIAN RAMPS HAVE NOT BEEN REVIEWED FOR ADA COMPLIANCE.

UTILITY NOTES

1. UTILITY INFORMATION FROM THE VARIOUS UTILITY COMPANIES AND PUBLIC AGENCIES, ARE APPROXIMATE ONLY AND ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD.
2. THE LOCATION OF EXISTING PIPES, UNDERGROUND STRUCTURES AND PROPERTY LINES ARE NOT WARRANTED TO BE EXACT. NOR IS IT WARRANTED THAT ALL UNDERGROUND PIPES OR STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL CALL "DIG SAFE" (1-888-344-7233) 72 HOURS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) PRIOR TO ANY EXCAVATION TO OBTAIN ACCURATE UTILITY LOCATIONS. ALL UNDERGROUND UTILITIES AS SHOWN WERE COMPILED USING FIELD SURVEY INFORMATION AND AVAILABLE RECORD INFORMATION.

PAVEMENT MARKING AND SIGNAGE NOTES

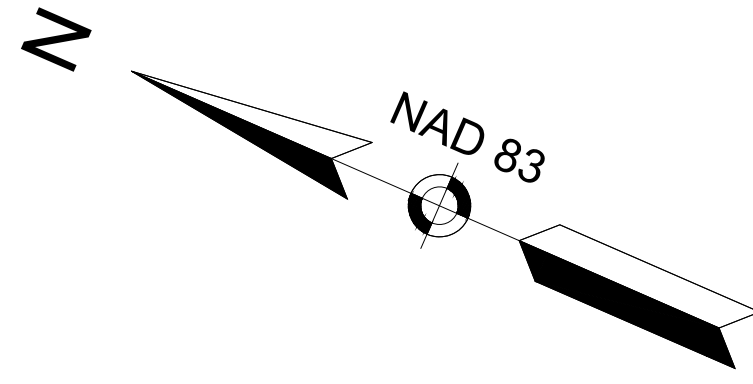
1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, REGULATIONS AND SAFETY CODES IN THE CONSTRUCTION OF ALL IMPROVEMENTS. SIGN AND STRIPING WORK SHALL ALSO MEET ALL APPLICABLE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. THE CONTRACTOR SHALL VERIFY BASE MAPPING IN THE FIELD PRIOR TO PLACING STRIPING OR SYMBOLS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO START OF WORK. WHEN THESE PLANS ARE IN CONFLICT WITH ACTUAL SITE CONDITIONS, PROPOSED STRIPING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
3. MARKED CROSSWALKS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND MAY NOT ACCOUNT FOR FADED OR DETERIORATED MARKINGS.
4. ALL PAVEMENT MARKING LINES, STOP LINES, BUS PAVEMENT MARKINGS, CROSSWALKS, AND SYMBOLS ARE THERMOPLASTIC UNLESS OTHERWISE NOTED.
5. TEXT, ARROWS, BICYCLE LANE SYMBOLS AND SHARED LANE MARKING SYMBOLS SHALL BE THERMOPLASTIC. LONGITUDINAL LOCATIONS FOR BICYCLE LANE SYMBOLS AND SHARED LANE MARKINGS ARE APPROXIMATE UNLESS DIMENSIONS GIVEN. SEE DRAWINGS FOR SYMBOL LOCATIONS.
6. IF PROPOSED PAVEMENT MARKINGS ARE SHOWN IN THE AREA OF EXISTING PAVEMENT MARKINGS, ERADICATE ANY CONFLICTING MARKINGS USING AN APPROVED METHOD SUCH THAT NO TRACES OF EXISTING MARKINGS ARE SHOWN. THE CONTRACTOR SHALL NOT INSTALL NEW PAVEMENT MARKINGS WITHOUT ERADICATING EXISTING PAVEMENT MARKINGS FIRST.
7. TRAFFIC SIGNS AND PAVEMENT MARKING PLANS SHOW SIGNING ASSOCIATED WITH BICYCLE LANES AND SHARED LANE MARKINGS. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL PROPOSED SIGNS AND ANY MODIFICATIONS TO EXISTING SIGNS.
8. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS, AND FEATURES OUTSIDE OF THE LIMITS OF WORK AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY THE ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE ANY SUCH OR OTHER DAMAGE SO CAUSED AT NO ADDITIONAL COST.
9. REGULATORY AND PARKING SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF SEVEN FEET FROM THE BOTTOM OF THE SIGN TO THE FINISHED GRADE. PARKING SIGNAGE SHALL BE ANGLED TOWARDS APPROACHING TRAFFIC.

TEMPORARY TRAFFIC CONTROL

1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR TRAFFIC MANAGEMENT AND TO COMPLY WITH CONDITIONS OUTLINED WITHIN THE SPECIFICATIONS.
2. CONTRACTOR SHALL SUBMIT TO THE RESIDENT ENGINEER TRAFFIC MANAGEMENT PLANS FOR REVIEW AND APPROVAL BY CITY OF SOMERVILLE. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION EFFORT WITH OTHER PROJECTS IN THE VICINITY IN ORDER TO MINIMIZE POTENTIAL TRAFFIC IMPACTS.
3. PLACEMENT OF CONSTRUCTION SIGNING, TRAFFIC CONTROL DEVICES AND TEMPORARY PAVEMENT MARKINGS FOR EACH SET UP SHALL BE COMPLETED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

TEMPORARY TRAFFIC CONTROL - CHANNELIZATION

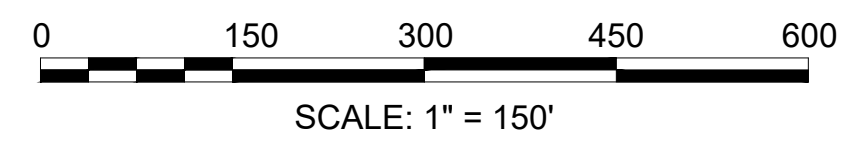
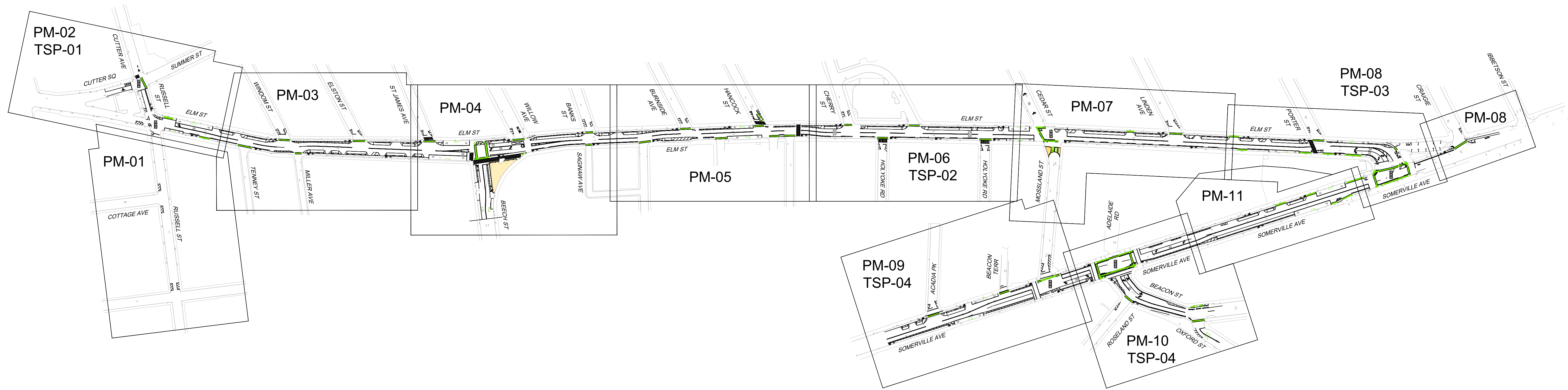
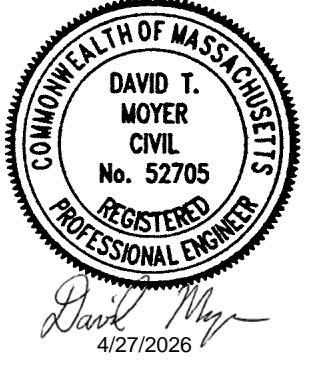
1. CHANNELIZATION SHALL BE ACCOMPLISHED THROUGH THE USE OF REFLECTORIZED PLASTIC CONES OR DRUMS IN ACCORDANCE WITH THE CURRENT MUTCD. THE FIRST 10 DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING TYPE A LIGHTS.
2. ALL DRUMS SHALL BE PLACED AND MOVED AS NECESSARY TO MAINTAIN ADEQUATE ABUTTER ACCESS AT ALL TIMES. WORK MAY REQUIRE ADDITIONAL SIGNS, DRUMS, AND OTHER TRAFFIC CONTROL DEVICES.



**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	4	32
PROJECT FILE NO.		N/A	

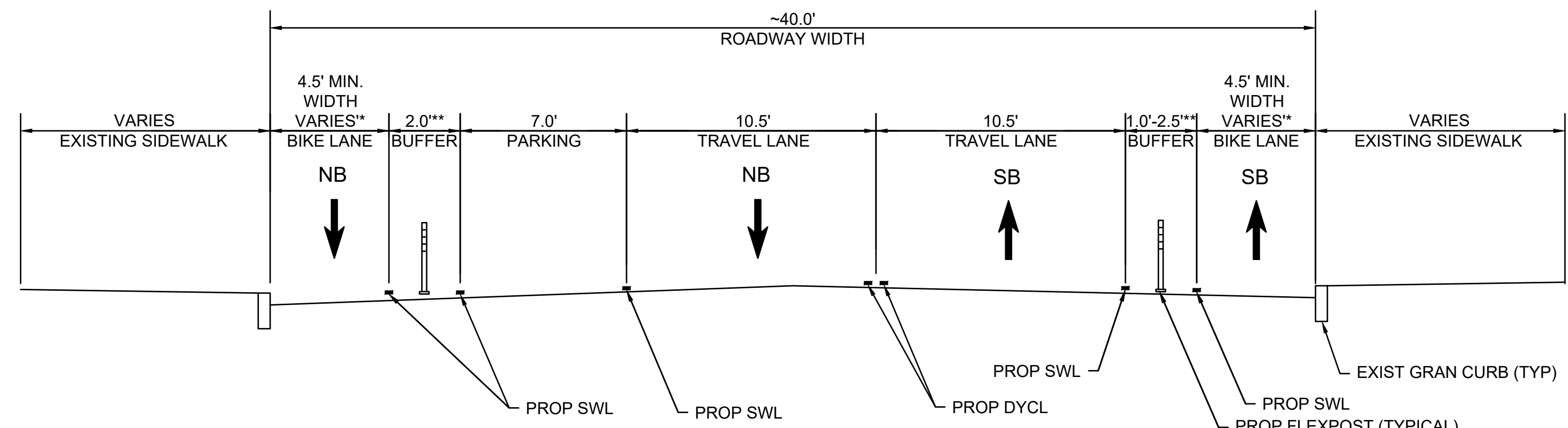
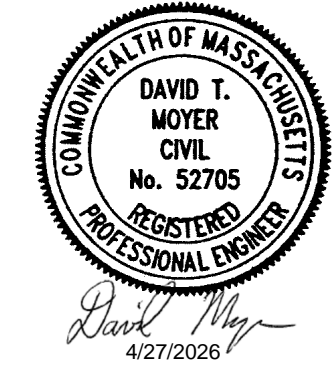
KEY PLAN



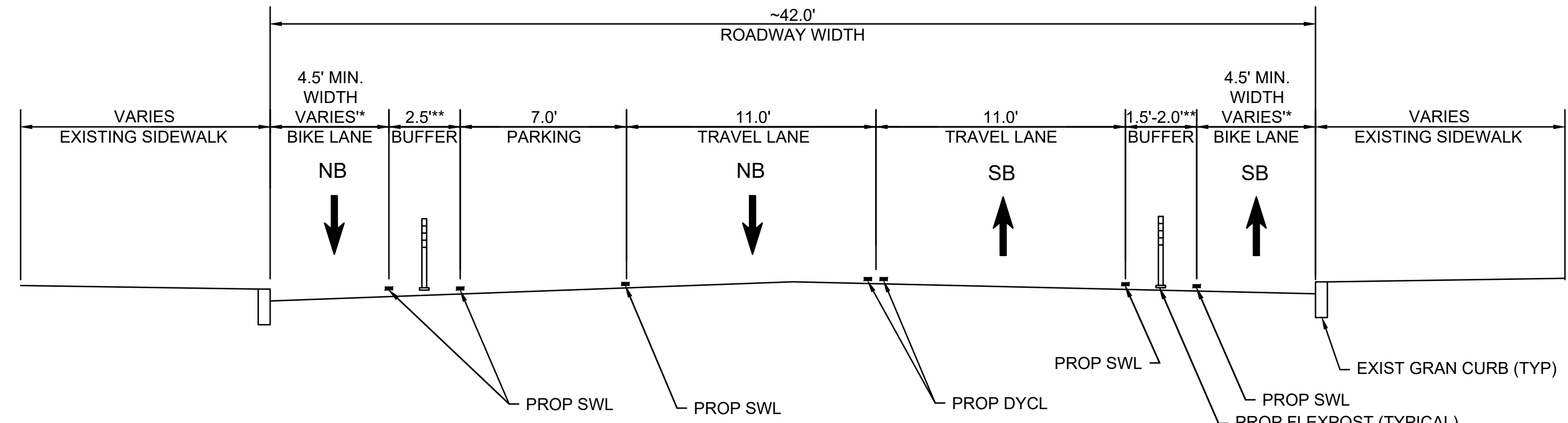
**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	05	32
PROJECT FILE NO.		N/A	

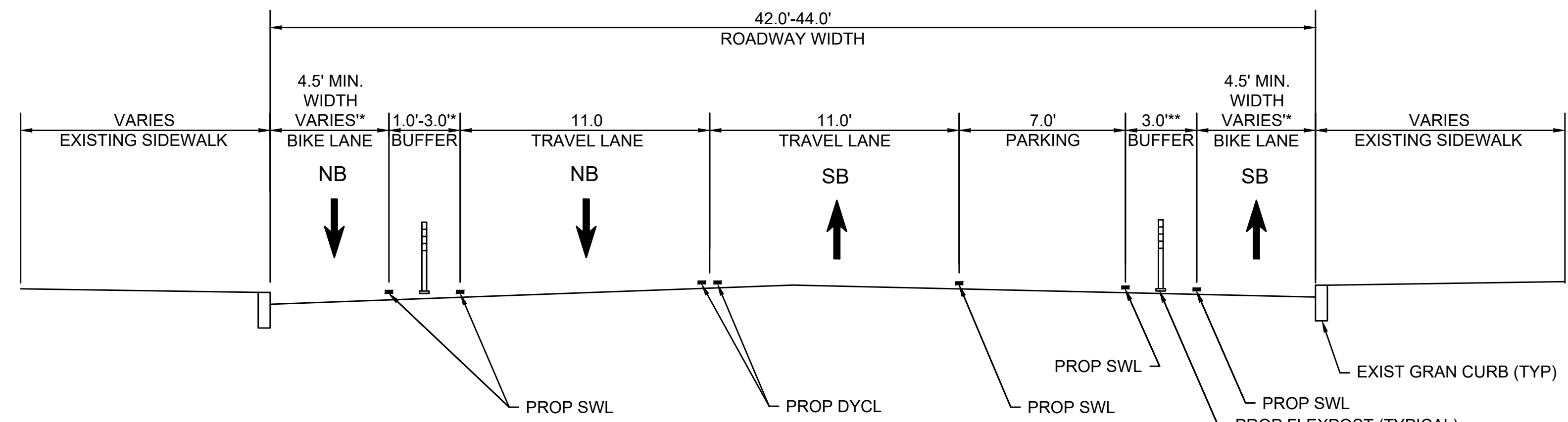
TYPICAL SECTIONS



*WIDTH VARIES - SEE PAVEMENT MARKING PLANS
 **PRIORITIZE MAXIMIZING WIDTH OF BUFFER
 ADJACENT PARKING TO 3.0' OVER BIKE LANE WIDTH
ELM STREET
 CUTTER AVENUE TO WINDOM STREET
 NTS



*WIDTH VARIES - SEE PAVEMENT MARKING PLANS
 **PRIORITIZE MAXIMIZING WIDTH OF BUFFER
 ADJACENT PARKING TO 3.0' OVER BIKE LANE WIDTH
ELM STREET
 CHERRY STREET TO PORTER STREET
 NTS

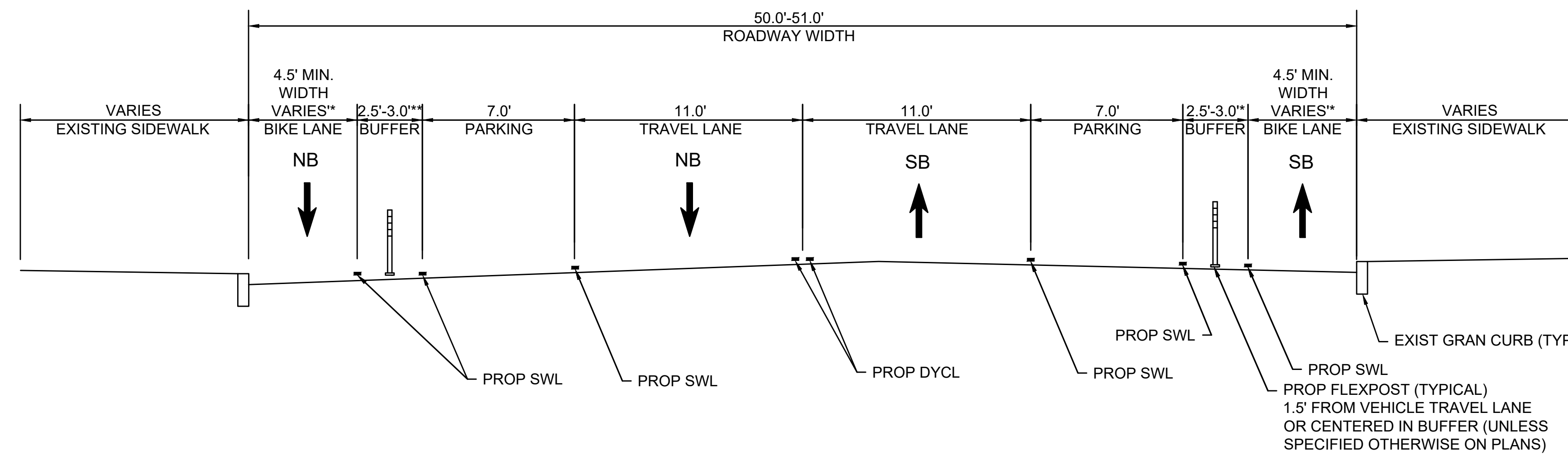
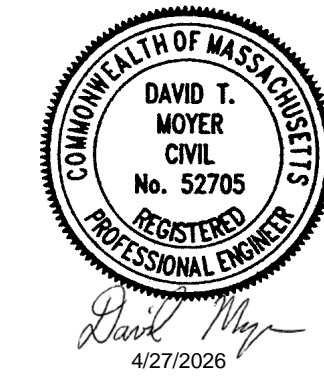


*WIDTH VARIES - SEE PAVEMENT MARKING PLANS
 **PRIORITIZE MAXIMIZING WIDTH OF BUFFER
 ADJACENT PARKING TO 3.0' OVER BIKE LANE WIDTH
ELM STREET
 WINDOM STREET TO ELSTON STREET
 NTS

**SOMERVILLE
ELM-BEACON CONNECTOR**

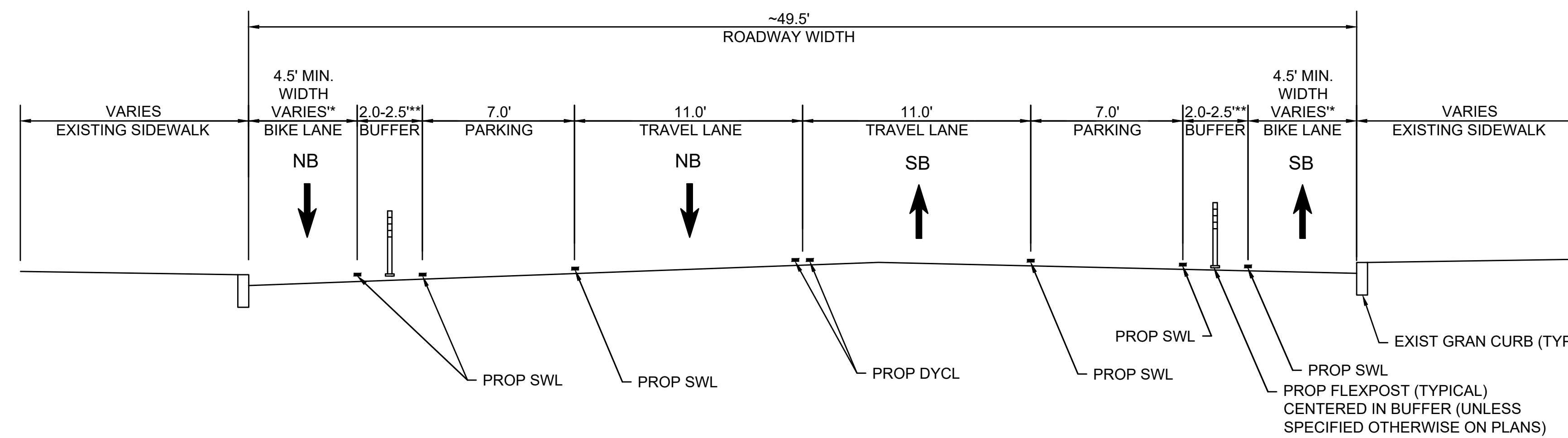
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	06	32
PROJECT FILE NO.		N/A	

TYPICAL SECTIONS



*WIDTH VARIES - SEE PAVEMENT MARKING PLANS
**PRIORITIZE MAXIMIZING WIDTH OF BUFFER
ADJACENT PARKING TO 3.0' OVER BIKE LANE WIDTH

ELM STREET
ELSTON STREET TO BEECH STREET
NTS



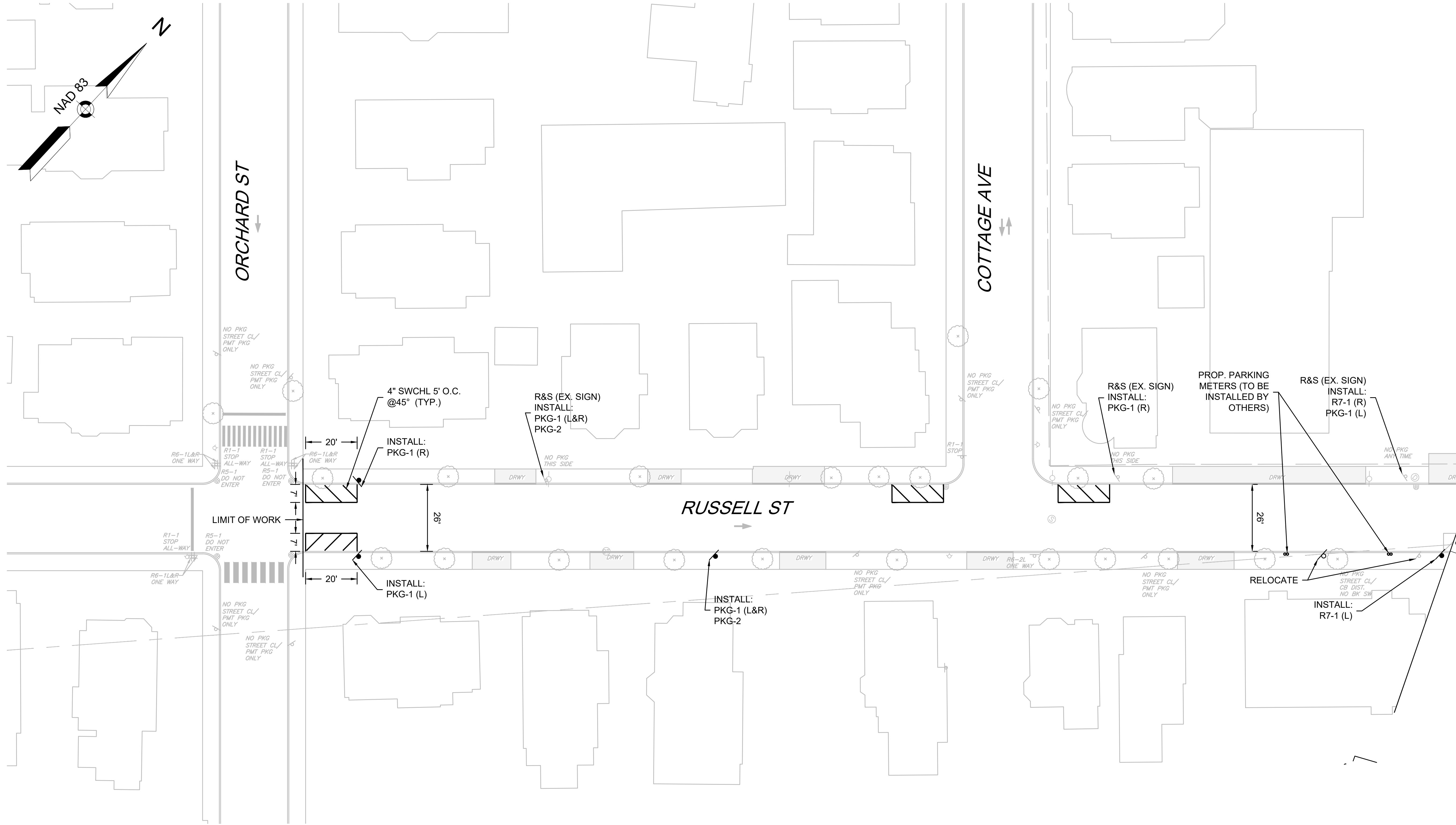
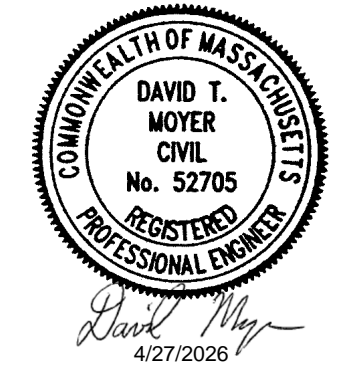
*WIDTH VARIES - SEE PAVEMENT MARKING PLANS
**PRIORITIZE MAXIMIZING WIDTH OF BUFFER
ADJACENT PARKING TO 3.0' OVER BIKE LANE WIDTH

SOMERVILLE AVENUE
BEACON STREET TO ELM STREET
NTS

**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	07	32
PROJECT FILE NO.		N/A	

**TRAFFIC SIGNS AND
PAVEMENT MARKINGS PM-01**



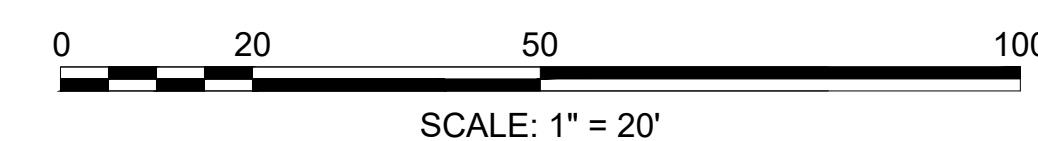
SIGN LEGEND

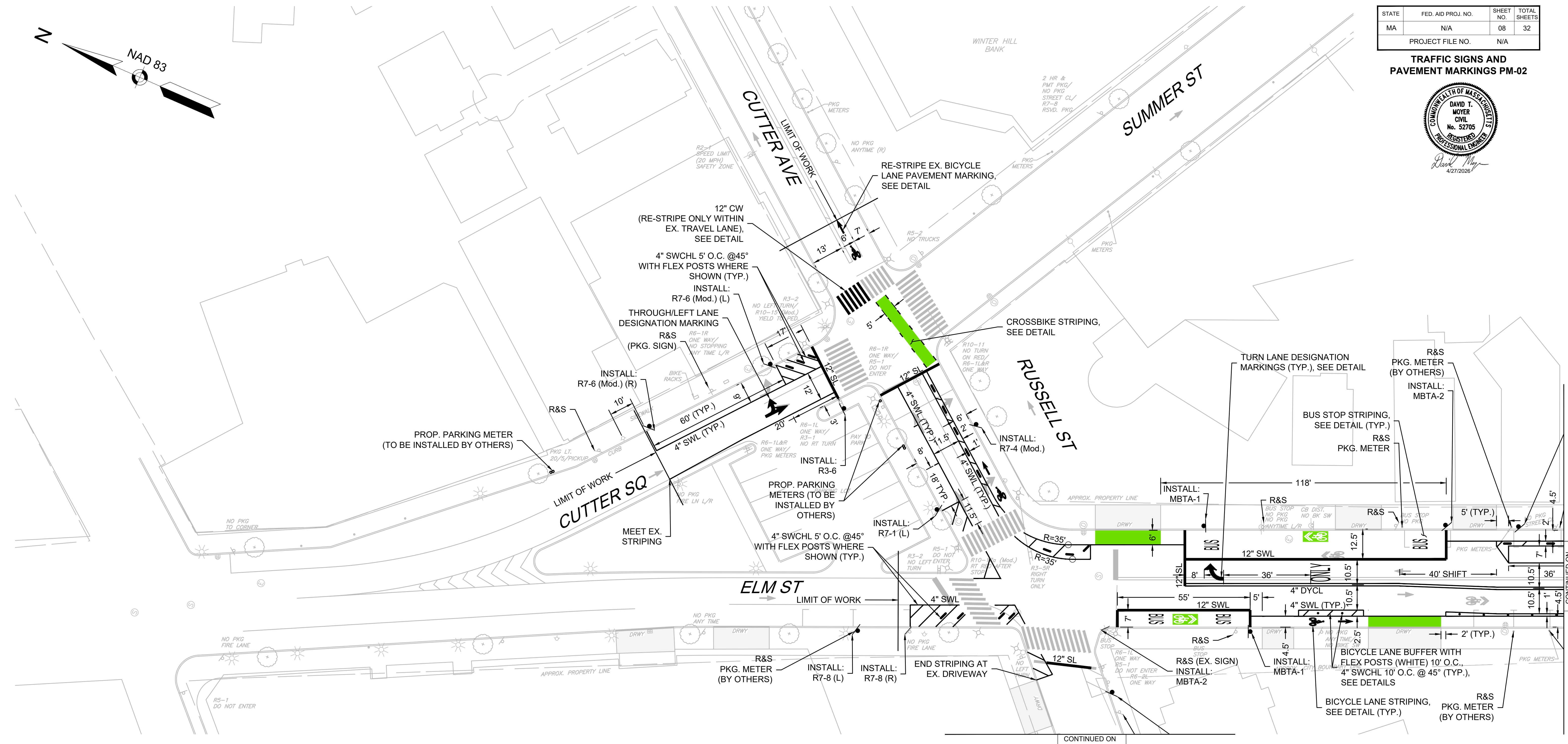
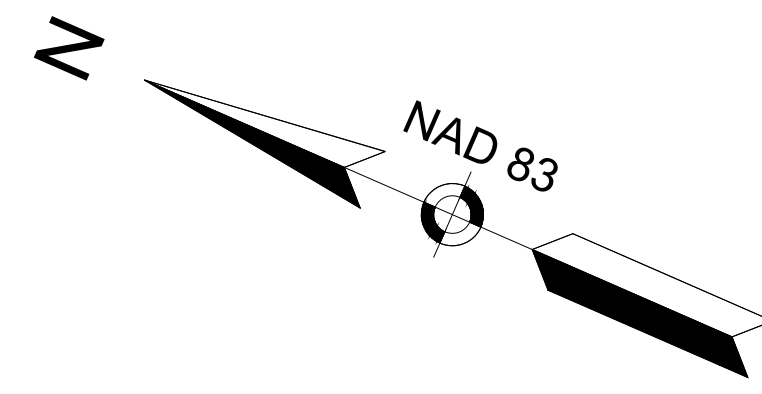
DESIGNATION	SIGN	SIZE
R7-1	NO PARKING (LEFT / RIGHT ARROW)	12" X 18"
PKG-1	PERMIT PARKING ONLY (LEFT / RIGHT / DUAL ARROW)	12" X 18"
PKG-2	NO PARKING STREET CLEANING**	12" X 18"

**STREET CLEANING DAYS VARY; MATCH DAYS ON NEARBY SIGNS ON SAME STREET
NOTE: FOR ADDITIONAL PROPOSED SIGN INFORMATION, SEE SIGN SUMMARY.

NOTES:

- DIMENSIONS SHOWN TO ALL EXISTING FEATURES ARE APPROXIMATE AND BASED ON AERIAL PHOTOGRAPHY/FIELD MEASUREMENTS. CONTRACTOR SHALL FIELD-VERIFY THE PROPOSED WORK SHOWN ON THE PLAN PRIOR TO INSTALLATION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- ANY EXISTING PAVEMENT MARKINGS SUCH AS VEHICLE TRAVEL LINES, TEXT, SHARED LANE MARKINGS, BIKE LANES, ETC. THAT CONFLICT WITH THESE PLANS SHALL BE ERADICATED.
- FOR STRIPING OF BICYCLE LANE BUFFER WITH ON-STREET PARKING ADJACENT TO EXISTING DRIVEWAYS, START BUFFER 5 FT FROM THE EXISTING DEPRESSED CURB ON BOTH SIDES OF THE DRIVEWAY. SEE DETAIL.
- PROPOSED FLEX POSTS SHALL BE INSTALLED CENTERED WITHIN THE BICYCLE LANE BUFFER, UNLESS OTHERWISE SHOWN ON PLANS.
- RETAIN BRICK IN-LAY AT ALL LOCATIONS WHERE CONDITION EXISTS.
- MBTA-1 AND MBTA-2 SIGNS TO BE PROVIDED BY THE METROPOLITAN BOSTON TRANSIT AUTHORITY (MBTA).
- ALL NEW, RELOCATED, OR REUSED SIGN SUPPORT POSTS SHALL HAVE BREAKAWAY POSTS.





CONTINUED ON SHEET NO. PM-01

CONTINUED ON SHEET NO. PM-03

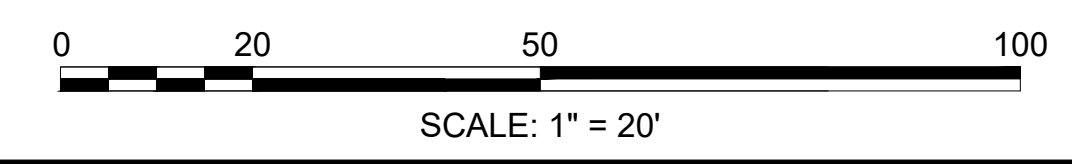
SIGN LEGEND

DESIGNATION	SIGN	SIZE
R3-6	LANE CONTROL (THROUGH & LEFT TURN)	30" X 36"
R7-1	NO PARKING (LEFT / RIGHT ARROW)	12" X 18"
R7-4 (Mod.)	NO PARKING ANYTIME	12" X 18"
R7-6 (Mod.)	NO PARKING (LOADING ZONE)	12" X 18"
R7-8	ACCESSIBLE PARKING (LEFT / RIGHT ARROW)	12" X 18"
MBTA-1*	BUS STOP SIGN (ROUTES 87,95)	14" X 18"
MBTA-2*	BUS STOP NO PARKING (LEFT ARROW)	12" X 24"

*SIGNS TO BE PROVIDED BY MBTA
NOTE: FOR ADDITIONAL PROPOSED SIGN INFORMATION, SEE SIGN SUMMARY.

NOTES:

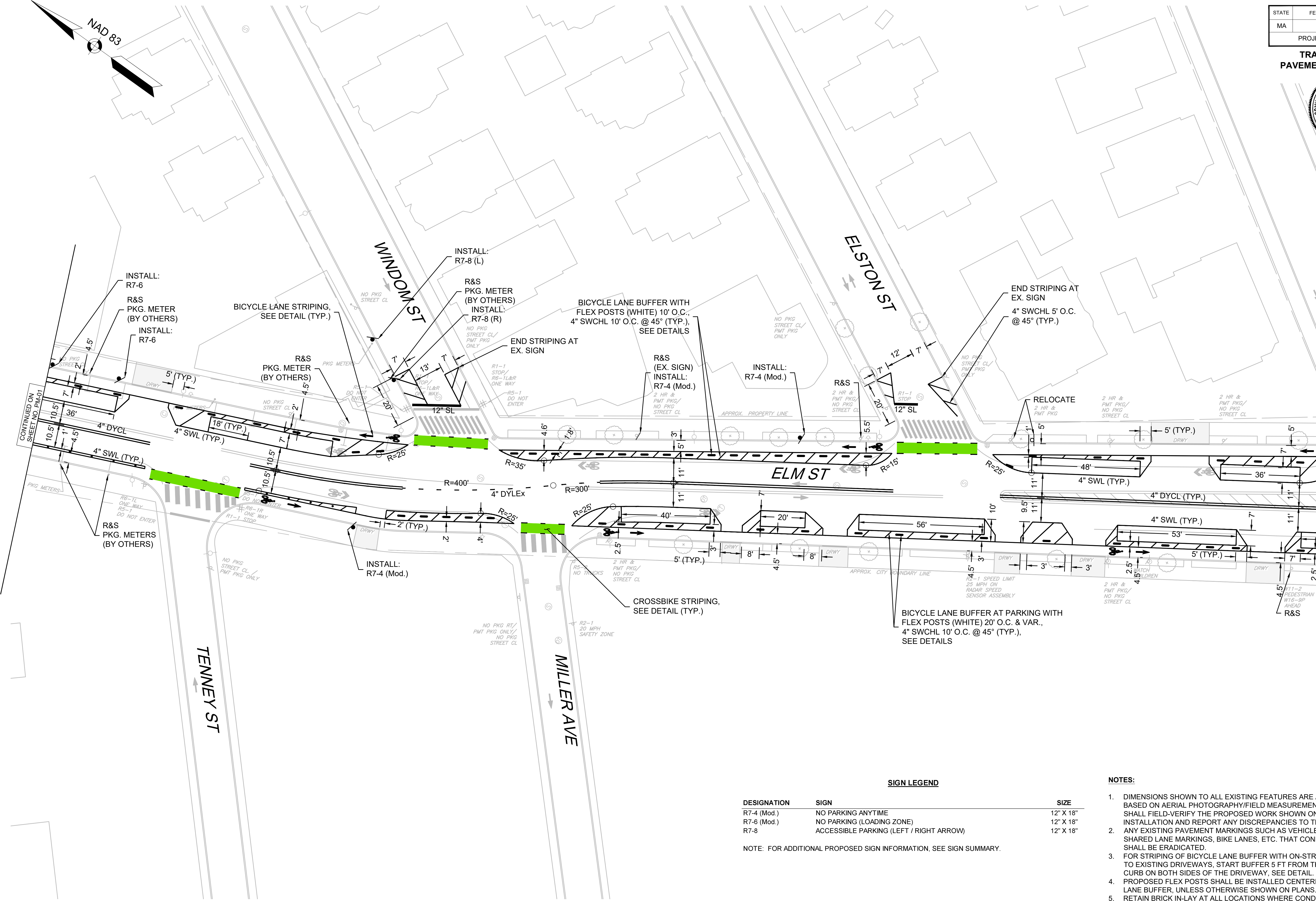
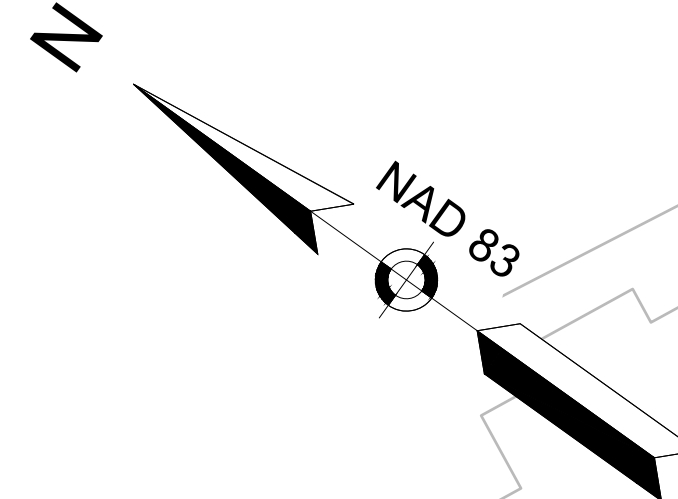
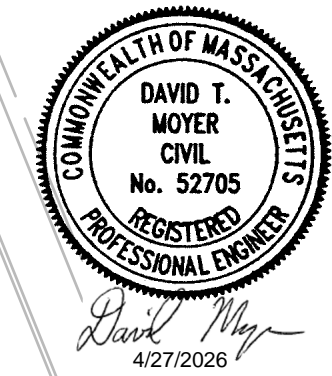
- DIMENSIONS SHOWN TO ALL EXISTING FEATURES ARE APPROXIMATE AND BASED ON AERIAL PHOTOGRAPHY/FIELD MEASUREMENTS. CONTRACTOR SHALL FIELD-VERIFY THE PROPOSED WORK SHOWN ON THE PLAN PRIOR TO INSTALLATION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- ANY EXISTING PAVEMENT MARKINGS SUCH AS VEHICLE TRAVEL LINES, TEXT, SHARED LANE MARKINGS, BIKE LANES, ETC. THAT CONFLICT WITH THESE PLANS SHALL BE ERADICATED.
- FOR STRIPING OF BICYCLE LANE BUFFER WITH ON-STREET PARKING ADJACENT TO EXISTING DRIVEWAYS, START BUFFER 5 FT FROM THE EXISTING DEPRESSED CURB ON BOTH SIDES OF THE DRIVEWAY, SEE DETAIL.
- PROPOSED FLEX POSTS SHALL BE INSTALLED CENTERED WITHIN THE BICYCLE LANE BUFFER, UNLESS OTHERWISE SHOWN ON PLANS.
- RETAIN BRICK IN-LAY AT ALL LOCATIONS WHERE CONDITION EXISTS.
- MBTA-1 AND MBTA-2 SIGNS TO BE PROVIDED BY THE METROPOLITAN BOSTON TRANSIT AUTHORITY (MBTA).
- ALL NEW, RELOCATED, OR REUSED SIGN SUPPORT POSTS SHALL HAVE BREAKAWAY POSTS.



**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	09	32
PROJECT FILE NO.		N/A	

**TRAFFIC SIGNS AND
PAVEMENT MARKINGS PM-03**



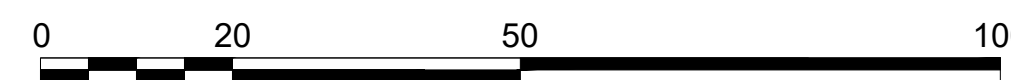
SIGN LEGEND

DESIGNATION	SIGN	SIZE
R7-4 (Mod.)	NO PARKING ANYTIME	12" X 18"
R7-6 (Mod.)	NO PARKING (LOADING ZONE)	12" X 18"
R7-8	ACCESSIBLE PARKING (LEFT / RIGHT ARROW)	12" X 18"

NOTE: FOR ADDITIONAL PROPOSED SIGN INFORMATION, SEE SIGN SUMMARY.

NOTES:

- DIMENSIONS SHOWN TO ALL EXISTING FEATURES ARE APPROXIMATE AND BASED ON AERIAL PHOTOGRAPHY/FIELD MEASUREMENTS. CONTRACTOR SHALL FIELD-VERIFY THE PROPOSED WORK SHOWN ON THE PLAN PRIOR TO INSTALLATION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- ANY EXISTING PAVEMENT MARKINGS SUCH AS VEHICLE TRAVEL LINES, TEXT, SHARED LANE MARKINGS, BIKE LANES, ETC. THAT CONFLICT WITH THESE PLANS SHALL BE ERADICATED.
- FOR STRIPING OF BICYCLE LANE BUFFER WITH ON-STREET PARKING ADJACENT TO EXISTING DRIVEWAYS, START BUFFER 5 FT FROM THE EXISTING DEPRESSED CURB ON BOTH SIDES OF THE DRIVEWAY, SEE DETAIL.
- PROPOSED FLEX POSTS SHALL BE INSTALLED CENTERED WITHIN THE BICYCLE LANE BUFFER, UNLESS OTHERWISE SHOWN ON PLANS.
- RETAIN BRICK IN-LAY AT ALL LOCATIONS WHERE CONDITION EXISTS.
- MBTA-1 AND MBTA-2 SIGNS TO BE PROVIDED BY THE METROPOLITAN BOSTON TRANSIT AUTHORITY (MBTA).
- ALL NEW, RELOCATED, OR REUSED SIGN SUPPORT POSTS SHALL HAVE BREAKAWAY POSTS.

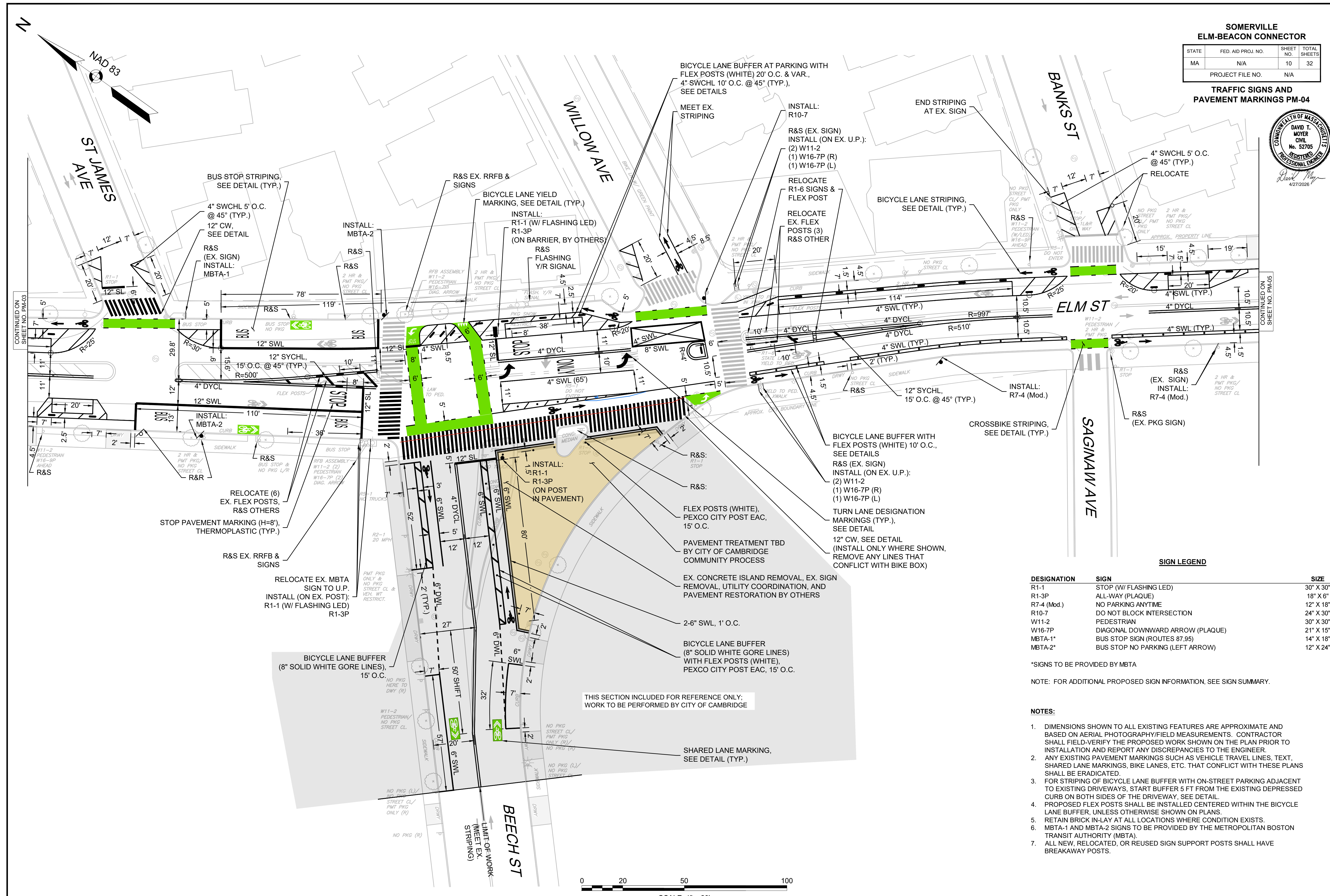
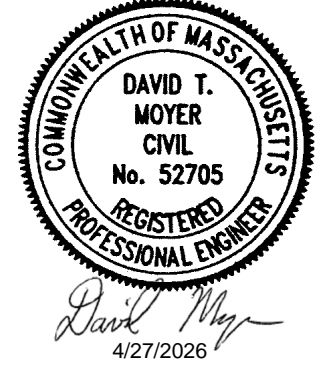


SCALE: 1" = 20'

**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	10	32
PROJECT FILE NO.		N/A	

**TRAFFIC SIGNS AND
PAVEMENT MARKINGS PM-04**

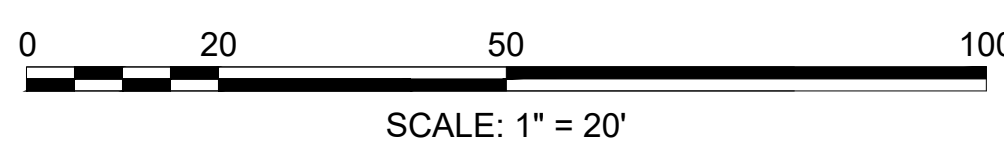


SIGN LEGEND

DESIGNATION	SIGN	SIZE
R1-1	STOP (W/ FLASHING LED)	30" X 30"
R1-3P	ALL-WAY (PLAQUE)	18" X 6"
R7-4 (Mod.)	NO PARKING ANYTIME	12" X 18"
R10-7	DO NOT BLOCK INTERSECTION	24" X 30"
W11-2	PEDESTRIAN	30" X 30"
W16-7P	DIAGONAL DOWNWARD ARROW (PLAQUE)	21" X 15"
MBTA-1*	BUS STOP SIGN (ROUTES 87,95)	14" X 18"
MBTA-2*	BUS STOP NO PARKING (LEFT ARROW)	12" X 24"

*SIGNS TO BE PROVIDED BY MBTA
NOTE: FOR ADDITIONAL PROPOSED SIGN INFORMATION, SEE SIGN SUMMARY.

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 - ANY EXISTING PAVEMENT MARKINGS SUCH AS VEHICLE TRAVEL LINES, TEXT, SHARED LANE MARKINGS, BIKE LANES, ETC. THAT CONFLICT WITH THESE PLANS SHALL BE ERADICATED.
 - FOR STRIPING OF BICYCLE LANE BUFFER WITH ON-STREET PARKING ADJACENT TO EXISTING DRIVEWAYS, START BUFFER 5 FT FROM THE EXISTING DEPRESSED CURB ON BOTH SIDES OF THE DRIVEWAY. SEE DETAIL.
 - PROPOSED FLEX POSTS SHALL BE INSTALLED CENTERED WITHIN THE BICYCLE LANE BUFFER, UNLESS OTHERWISE SHOWN ON PLANS.
 - RETAIN BRICK IN-LAY AT ALL LOCATIONS WHERE CONDITION EXISTS.
 - MBTA-1 AND MBTA-2 SIGNS TO BE PROVIDED BY THE METROPOLITAN BOSTON TRANSIT AUTHORITY (MBTA).
 - ALL NEW, RELOCATED, OR REUSED SIGN SUPPORT POSTS SHALL HAVE BREAKAWAY POSTS.



THIS SECTION INCLUDED FOR REFERENCE ONLY:
WORK TO BE PERFORMED BY CITY OF CAMBRIDGE

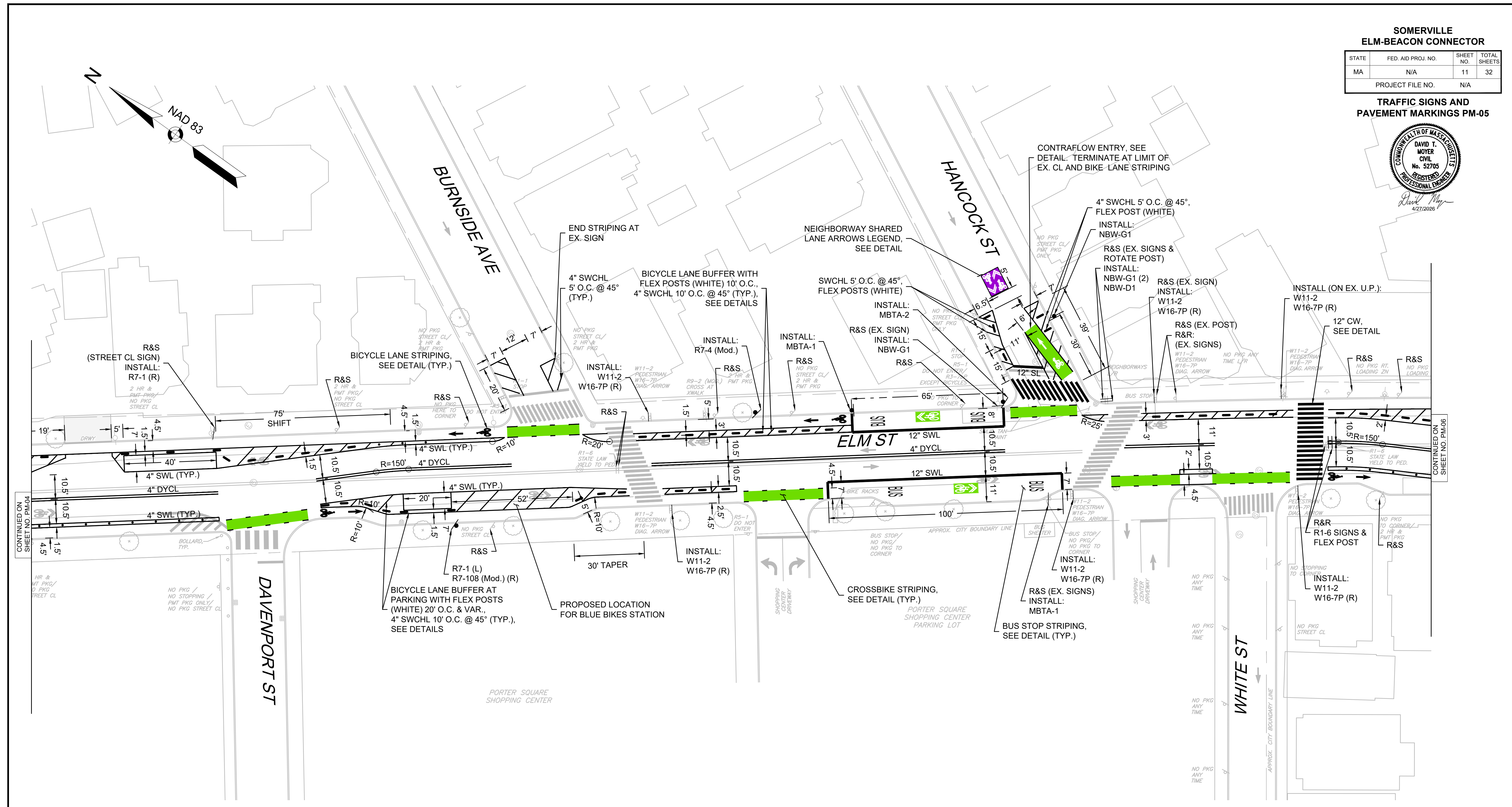
CONTINUED ON
SHEET NO. PM-03

CONTINUED ON
SHEET NO. PM-05

**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	11	32
PROJECT FILE NO.		N/A	

**TRAFFIC SIGNS AND
PAVEMENT MARKINGS PM-05**



CONTINUED ON
SHEET NO. PM-04

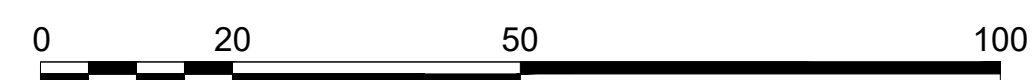
CONTINUED ON
SHEET NO. PM-06

SIGN LEGEND

DESIGNATION	SIGN	SIZE
R7-1	NO PARKING (LEFT / RIGHT ARROW)	12" X 18"
R7-108 (Mod.)	2-HR PARKING RESTRICTION	12" X 18"
R7-4 (Mod.)	NO PARKING ANYTIME	12" X 18"
W11-2	PEDESTRIAN	30" X 30"
W16-7P	DIAGONAL DOWNWARD ARROW (PLAQUE)	21" X 15"
MBTA-1*	BUS STOP SIGN (ROUTES 87,95)	14" X 18"
MBTA-2*	BUS STOP NO PARKING (LEFT ARROW)	12" X 24"
NBW-D1	NEIGHBORWAY BICYCLE TWO-WAY	6" X 18"
NBW-G1	NEIGHBORWAY GATEWAY	18" X 12"

*SIGNS TO BE PROVIDED BY MBTA

NOTE: FOR ADDITIONAL PROPOSED SIGN INFORMATION, SEE SIGN SUMMARY.



SCALE: 1" = 20'

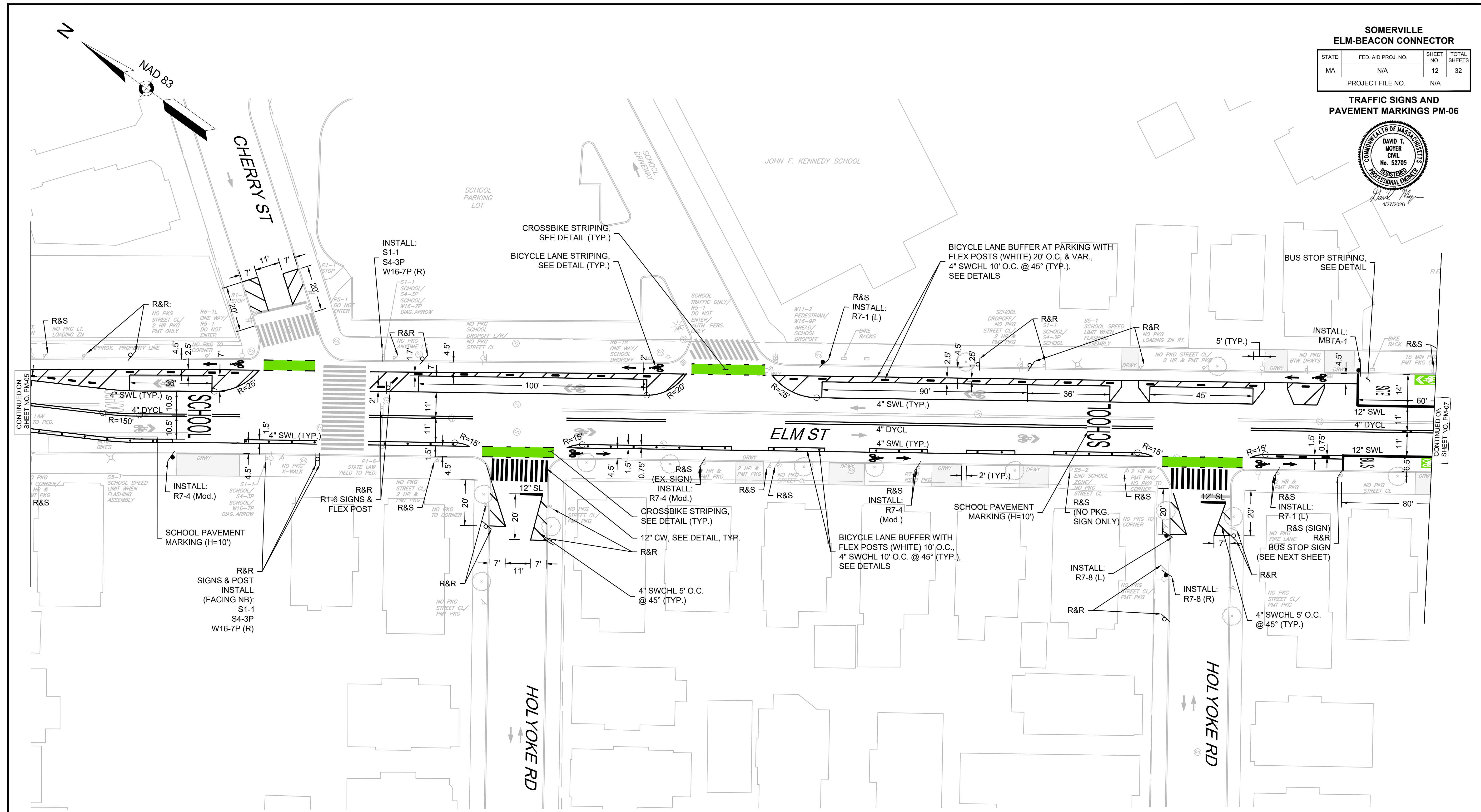
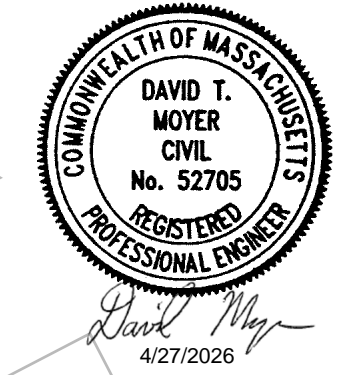
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**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	12	32
PROJECT FILE NO.		N/A	

**TRAFFIC SIGNS AND
PAVEMENT MARKINGS PM-06**



CONTINUED ON SHEET NO. PM-05

CONTINUED ON SHEET NO. PM-07

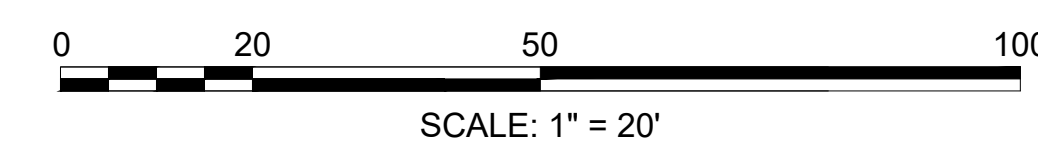
SIGN LEGEND

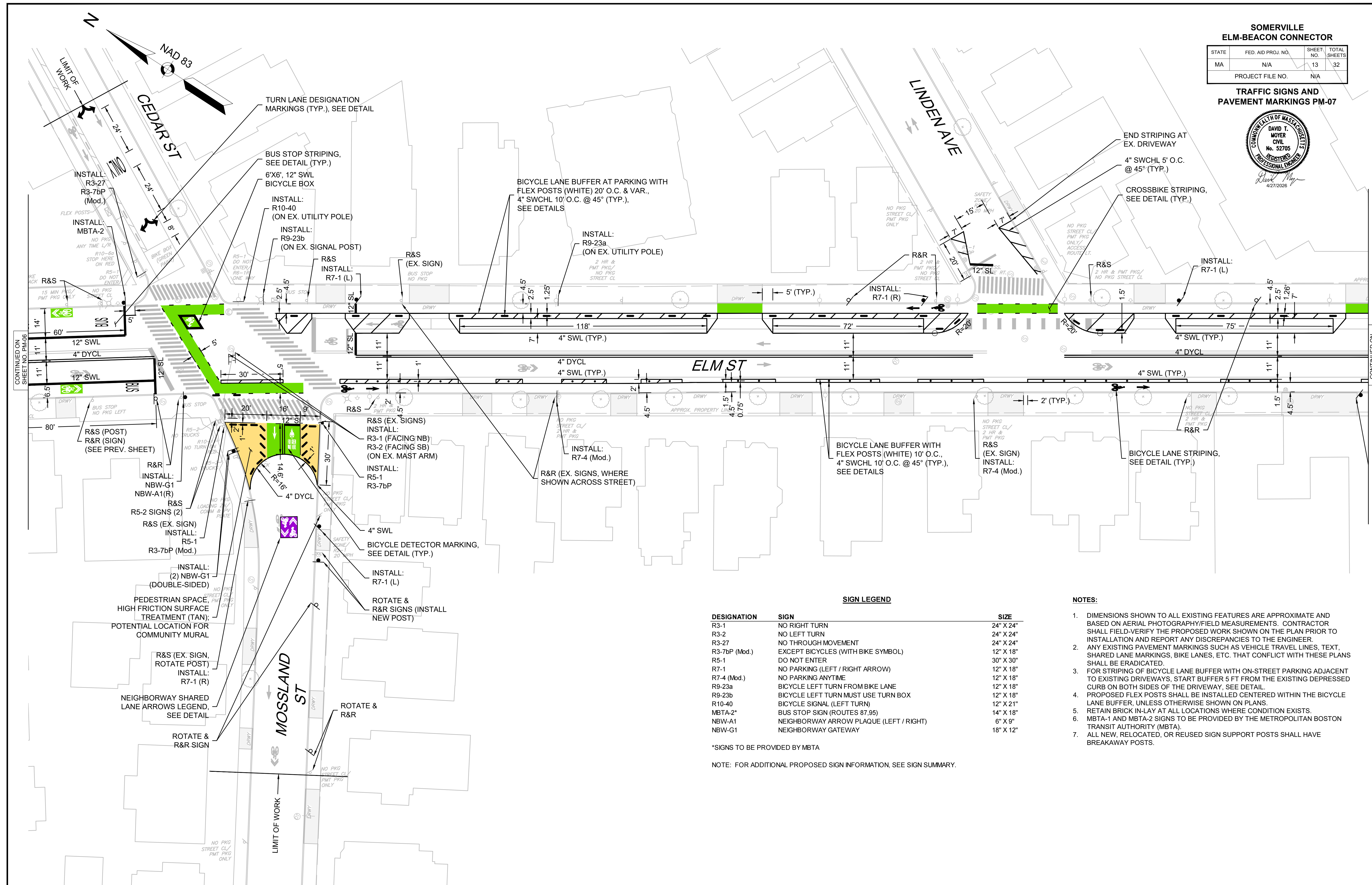
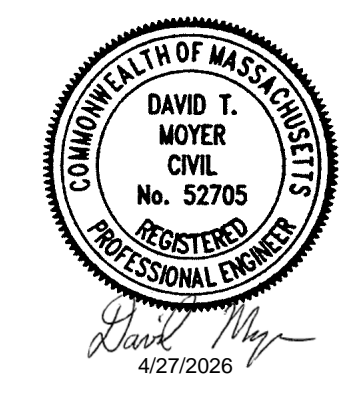
DESIGNATION	SIGN	SIZE
R7-1	NO PARKING (LEFT / RIGHT ARROW)	12" X 18"
R7-4 (Mod.)	NO PARKING ANYTIME	12" X 18"
R7-8	ACCESSIBLE PARKING (LEFT / RIGHT ARROW)	12" X 18"
S1-1	SCHOOL	36" X 36"
S4-3P	SCHOOL (PLAQUE)	24" X 9"
W16-7P	DIAGONAL DOWNWARD ARROW (PLAQUE)	21" X 15"
MBTA-1*	BUS STOP SIGN (ROUTES 87,95)	14" X 18"

*SIGNS TO BE PROVIDED BY MBTA
NOTE: FOR ADDITIONAL PROPOSED SIGN INFORMATION, SEE SIGN SUMMARY.

NOTES:

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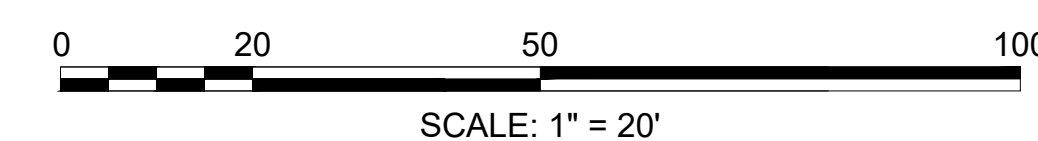


SIGN LEGEND

DESIGNATION	SIGN	SIZE
R3-1	NO RIGHT TURN	24" X 24"
R3-2	NO LEFT TURN	24" X 24"
R3-27	NO THROUGH MOVEMENT	24" X 24"
R3-7bP (Mod.)	EXCEPT BICYCLES (WITH BIKE SYMBOL)	12" X 18"
R5-1	DO NOT ENTER	30" X 30"
R7-1	NO PARKING (LEFT / RIGHT ARROW)	12" X 18"
R7-4 (Mod.)	NO PARKING ANYTIME	12" X 18"
R9-23a	BICYCLE LEFT TURN FROM BIKE LANE	12" X 18"
R9-23b	BICYCLE LEFT TURN MUST USE TURN BOX	12" X 18"
R10-40	BICYCLE SIGNAL (LEFT TURN)	12" X 21"
MBTA-2*	BUS STOP SIGN (ROUTES 87,95)	14" X 18"
NBW-A1	NEIGHBORWAY ARROW PLAQUE (LEFT / RIGHT)	6" X 9"
NBW-G1	NEIGHBORWAY GATEWAY	18" X 12"

*SIGNS TO BE PROVIDED BY MBTA
NOTE: FOR ADDITIONAL PROPOSED SIGN INFORMATION, SEE SIGN SUMMARY.

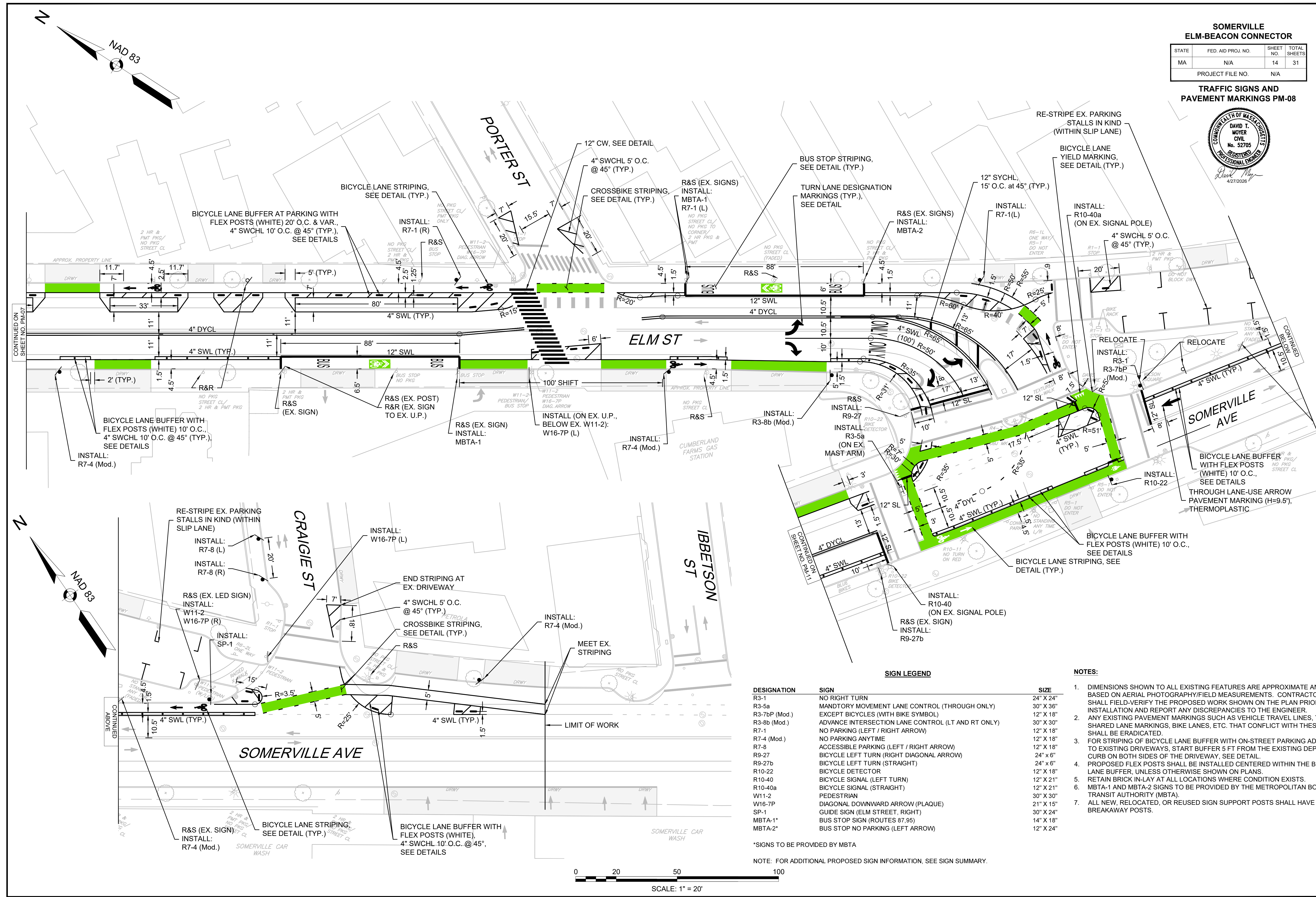
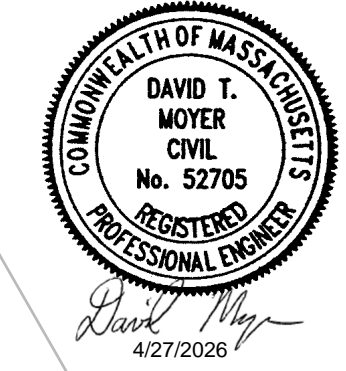
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CONTINUED ON SHEET NO. PM-06

CONTINUED ON SHEET NO. PM-08

CONTINUED ON SHEET NO. PM-09



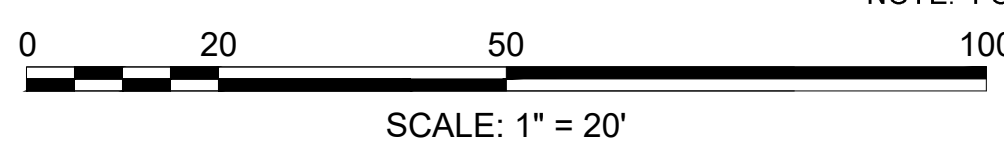
SIGN LEGEND

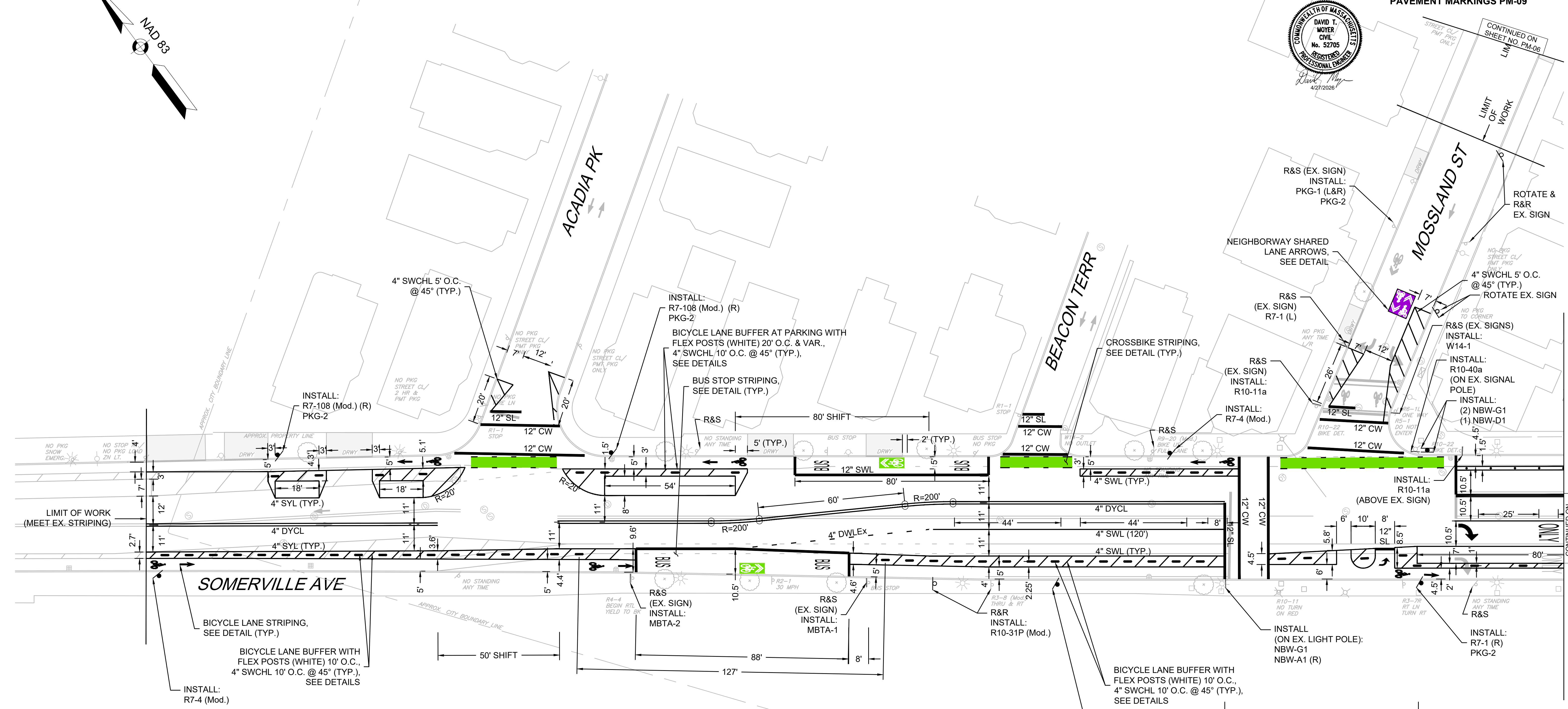
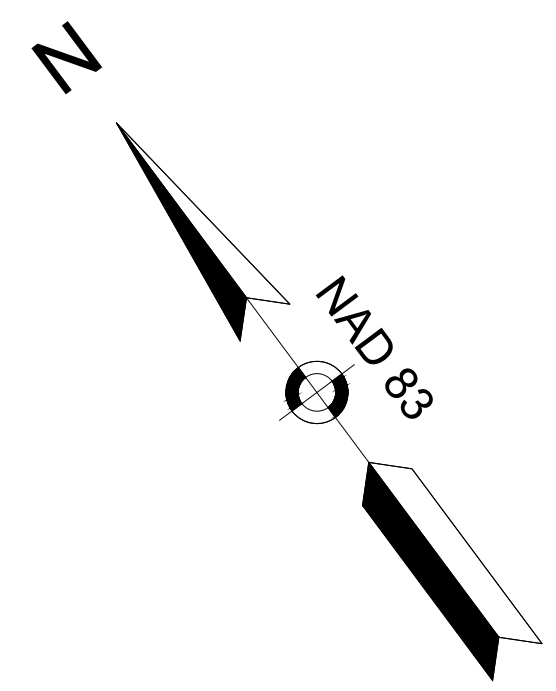
DESIGNATION	SIGN	SIZE
R3-1	NO RIGHT TURN	24" X 24"
R3-5a	MANDATORY MOVEMENT LANE CONTROL (THROUGH ONLY)	30" X 36"
R3-7bP (Mod.)	EXCEPT BICYCLES (WITH BIKE SYMBOL)	12" X 18"
R3-8b (Mod.)	ADVANCE INTERSECTION LANE CONTROL (LT AND RT ONLY)	30" X 30"
R7-1	NO PARKING (LEFT / RIGHT ARROW)	12" X 18"
R7-4 (Mod.)	NO PARKING ANYTIME	12" X 18"
R7-8	ACCESSIBLE PARKING (LEFT / RIGHT ARROW)	12" X 18"
R9-27	BICYCLE LEFT TURN (RIGHT DIAGONAL ARROW)	24" X 6"
R9-27b	BICYCLE LEFT TURN (STRAIGHT)	24" X 6"
R10-22	BICYCLE DETECTOR	12" X 18"
R10-40	BICYCLE SIGNAL (LEFT TURN)	12" X 21"
R10-40a	BICYCLE SIGNAL (STRAIGHT)	12" X 21"
W11-2	PEDESTRIAN	30" X 30"
W16-7P	DIAGONAL DOWNWARD ARROW (PLAQUE)	21" X 15"
SP-1	GUIDE SIGN (ELM STREET, RIGHT)	30" X 24"
MBTA-1*	BUS STOP SIGN (ROUTES 87,95)	14" X 18"
MBTA-2*	BUS STOP NO PARKING (LEFT ARROW)	12" X 24"

*SIGNS TO BE PROVIDED BY MBTA

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NOTE: FOR ADDITIONAL PROPOSED SIGN INFORMATION, SEE SIGN SUMMARY.



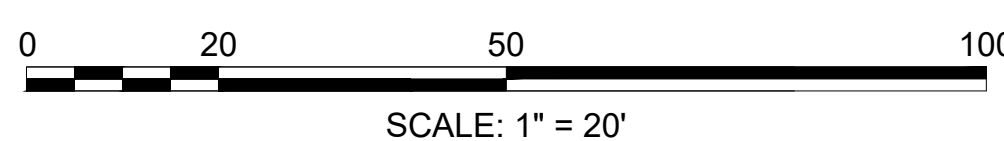


SIGN LEGEND

DESIGNATION	SIGN	SIZE
R7-1	NO PARKING (LEFT / RIGHT ARROW)	12" X 18"
R7-108 (Mod.)	2-HR PARKING RESTRICTION (LEFT / RIGHT ARROW)	12" X 18"
R7-4 (Mod.)	NO PARKING ANYTIME	12" X 18"
R10-11a	NO TURN ON CIRCULAR RED	24" X 30"
R10-31P (Mod.)	AT NEXT SIGNAL (PLAQUE)	24" X 18"
R10-40a	BICYCLE SIGNAL (STRAIGHT)	12" X 21"
W14-1	DEAD END	30" X 30"
MBTA-1*	BUS STOP SIGN (ROUTES 87,95)	14" X 18"
MBTA-2*	BUS STOP NO PARKING (LEFT ARROW)	12" X 24"
NBW-A1	NEIGHBORWAY ARROW PLAQUE (LEFT / RIGHT)	6" X 9"
NBW-D1	NEIGHBORWAY BICYCLE TWO-WAY	6" X 18"
NBW-G1	NEIGHBORWAY GATEWAY	18" X 12"
PKG-1	PERMIT PARKING ONLY (LEFT / RIGHT / DUAL ARROW)	12" X 18"
PKG-2	NO PARKING STREET CLEANING**	12" X 18"

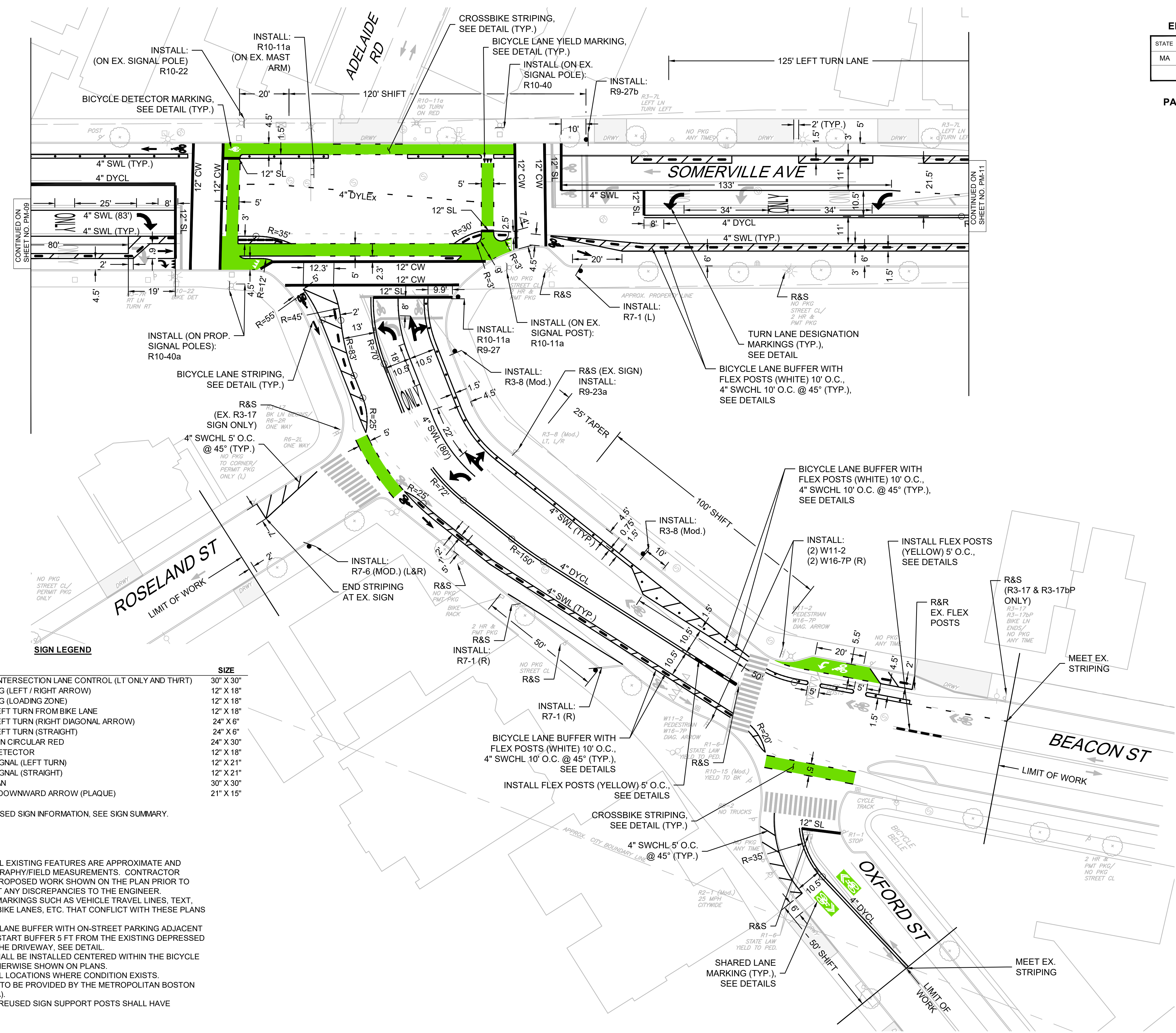
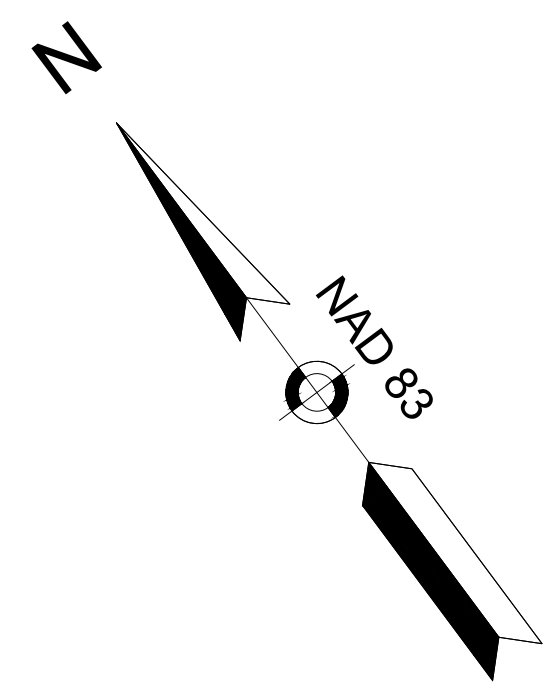
*SIGNS TO BE PROVIDED BY MBTA
 **STREET CLEANING DAYS VARY; MATCH DAYS ON NEARBY SIGNS ON SAME STREET
 NOTE: FOR ADDITIONAL PROPOSED SIGN INFORMATION, SEE SIGN SUMMARY.

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CONTINUED ON SHEET NO. PM-10

CONTINUED ON SHEET NO. PM-06



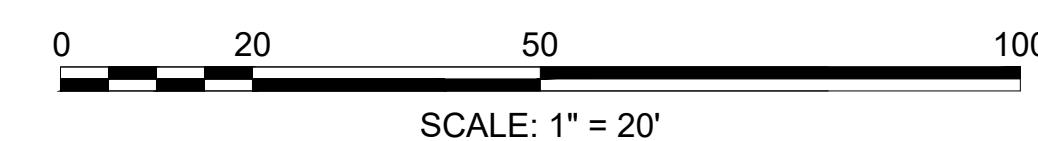
SIGN LEGEND

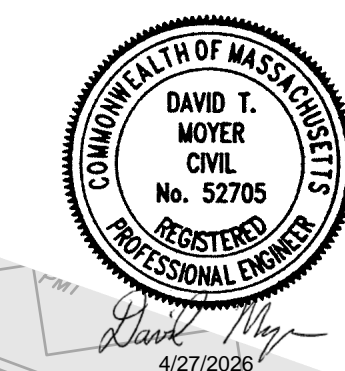
DESIGNATION	SIGN	SIZE
R3-8 (Mod.)	ADVANCE INTERSECTION LANE CONTROL (LT ONLY AND TH/RT)	30" X 30"
R7-1	NO PARKING (LEFT / RIGHT ARROW)	12" X 18"
R7-6 (Mod.)	NO PARKING (LOADING ZONE)	12" X 18"
R9-23a	BICYCLE LEFT TURN FROM BIKE LANE	12" X 18"
R9-27	BICYCLE LEFT TURN (RIGHT DIAGONAL ARROW)	24" X 6"
R9-27b	BICYCLE LEFT TURN (STRAIGHT)	24" X 6"
R10-11a	NO TURN ON CIRCULAR RED	24" X 30"
R10-22	BICYCLE DETECTOR	12" X 18"
R10-40	BICYCLE SIGNAL (LEFT TURN)	12" X 21"
R10-40a	BICYCLE SIGNAL (STRAIGHT)	12" X 21"
W11-2	PEDESTRIAN	30" X 30"
W16-7P	DIAGONAL DOWNWARD ARROW (PLAQUE)	21" X 15"

NOTE: FOR ADDITIONAL PROPOSED SIGN INFORMATION, SEE SIGN SUMMARY.

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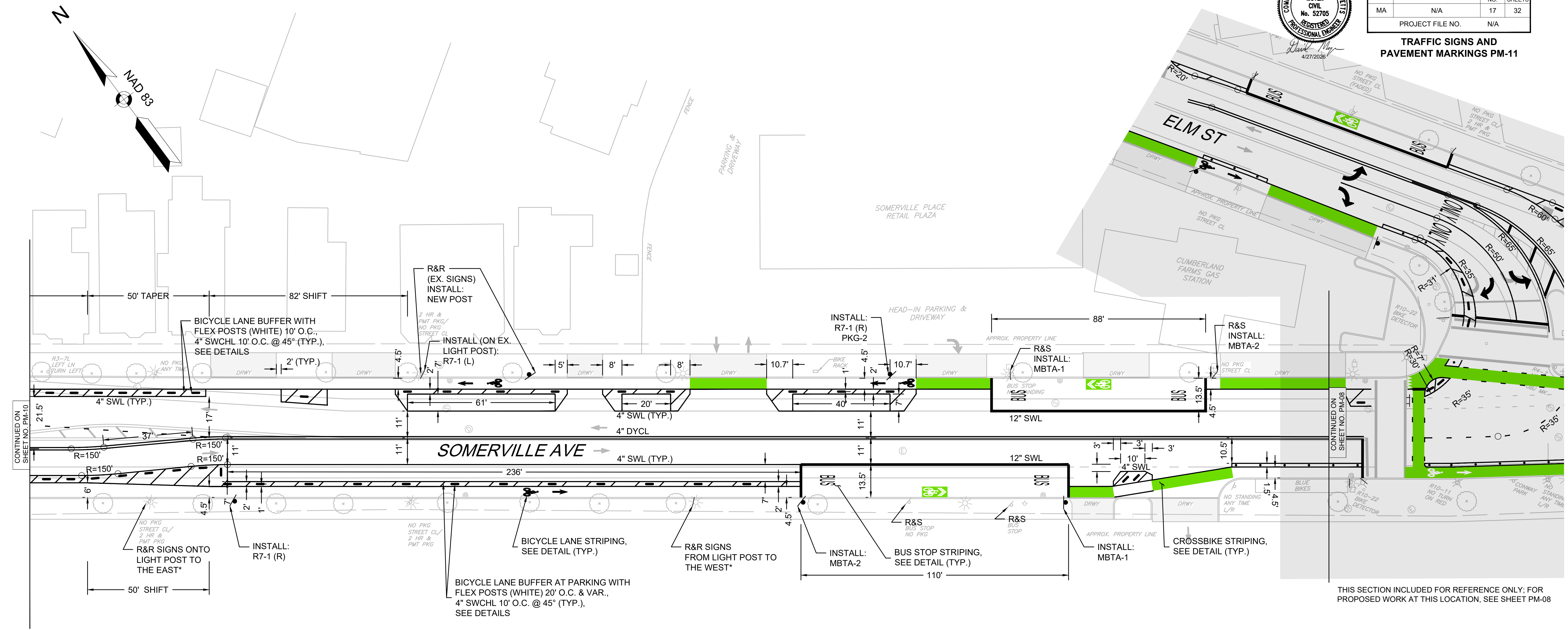




**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	17	32
PROJECT FILE NO.		N/A	

**TRAFFIC SIGNS AND
PAVEMENT MARKINGS PM-11**



THIS SECTION INCLUDED FOR REFERENCE ONLY; FOR PROPOSED WORK AT THIS LOCATION, SEE SHEET PM-08

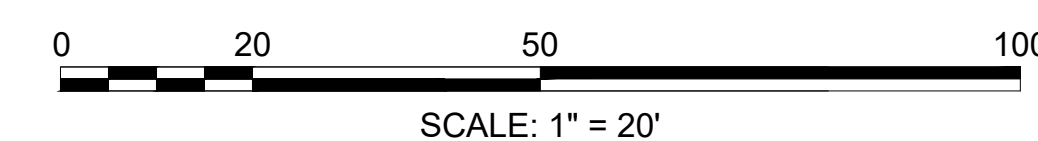
SIGN LEGEND

DESIGNATION	SIGN	SIZE
R7-1	NO PARKING (LEFT / RIGHT ARROW)	12" X 18"
MBTA-1*	BUS STOP SIGN (ROUTES 87,95)	14" X 18"
MBTA-2*	BUS STOP NO PARKING (LEFT ARROW)	12" X 24"
PKG-2	NO PARKING STREET CLEANING**	12" X 18"

*SIGNS TO BE PROVIDED BY MBTA
 **STREET CLEANING DAYS VARY; MATCH DAYS ON NEARBY SIGNS ON SAME STREET
 NOTE: FOR ADDITIONAL PROPOSED SIGN INFORMATION, SEE SIGN SUMMARY.

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- DIMENSIONS SHOWN TO ALL EXISTING FEATURES ARE APPROXIMATE AND BASED ON AERIAL PHOTOGRAPHY/FIELD MEASUREMENTS. CONTRACTOR SHALL FIELD-VERIFY THE PROPOSED WORK SHOWN ON THE PLAN PRIOR TO INSTALLATION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- ANY EXISTING PAVEMENT MARKINGS SUCH AS VEHICLE TRAVEL LINES, TEXT, SHARED LANE MARKINGS, BIKE LANES, ETC. THAT CONFLICT WITH THESE PLANS SHALL BE ERADICATED.
- FOR STRIPING OF BICYCLE LANE BUFFER WITH ON-STREET PARKING ADJACENT TO EXISTING DRIVEWAYS, START BUFFER 5 FT FROM THE EXISTING DEPRESSED CURB ON BOTH SIDES OF THE DRIVEWAY. SEE DETAIL.
- PROPOSED FLEX POSTS SHALL BE INSTALLED CENTERED WITHIN THE BICYCLE LANE BUFFER, UNLESS OTHERWISE SHOWN ON PLANS.
- RETAIN BRICK IN-LAY AT ALL LOCATIONS WHERE CONDITION EXISTS.
- MBTA-1 AND MBTA-2 SIGNS TO BE PROVIDED BY THE METROPOLITAN BOSTON TRANSIT AUTHORITY (MBTA).
- ALL NEW, RELOCATED, OR REUSED SIGN SUPPORT POSTS SHALL HAVE BREAKAWAY POSTS.



CONTINUED ON SHEET NO. PM-10

CONTINUED ON SHEET NO. PM-08

TRAFFIC SIGN SUMMARY

**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	18	32
PROJECT FILE NO.		N/A	

SIGN SUMMARY 01



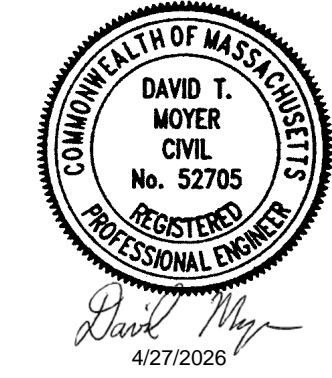
SIGN DESIGNATION	TEXT	SIZE OF SIGN		UNIT AREA (SF)	IMAGE	COLOR			NOTES	MOUNTING	NUMBER OF SIGNS REQUIRED	AREA IN SQUARE FEET
		WIDTH	HEIGHT			BACK-GROUND	LEGEND	BORDER				
R1-1	STOP	30"	30"	6.25		RED	WHITE	WHITE	STANDARD MUTCD SIGN	SEE PLANS	2	12.50
R1-3P	ALL-WAY (PLAQUE)	18"	6"	0.75		RED	WHITE	WHITE	STANDARD MUTCD SIGN		2	1.50
R3-1	NO RIGHT TURN	24"	24"	4.00		WHITE	BLACK	BLACK	STANDARD MUTCD SIGN		2	8.00
R3-2	NO LEFT TURN	24"	24"	4.00		WHITE	BLACK	BLACK	STANDARD MUTCD SIGN		1	4.00
R3-27	NO THROUGH MOVEMENT	24"	24"	4.00		WHITE	BLACK	BLACK	STANDARD MUTCD SIGN		1	4.00
R3-5a	MANDATORY MOVEMENT LANE CONTROL (THROUGH ONLY)	30"	36"	7.50		WHITE	BLACK	BLACK	STANDARD MUTCD SIGN		1	7.50
R3-6	OPTIONAL MOVEMENT LANE CONTROL (THROUGH AND LEFT TURN)	30"	36"	7.50		WHITE	BLACK	BLACK	STANDARD MUTCD SIGN		1	7.50
R3-7bP (Mod.)	EXCEPT BICYCLES PLAQUE (WITH BIKE SYMBOL)	18"	6"	0.75		WHITE	BLACK	BLACK	TEXT HEIGHT = 2.5" SYMBOL HEIGHT = 2.5"		4	3.00
R3-8 (Mod.)	ADVANCE INTERSECTION LANE CONTROL (LT & TH/RT ONLY)	30"	30"	6.25		WHITE	BLACK	BLACK	STANDARD MUTCD SIGN		2	12.50
R3-8b (Mod.)	ADVANCE INTERSECTION LANE CONTROL (LT & RT ONLY)	30"	30"	6.25		WHITE	BLACK	BLACK	STANDARD MUTCD SIGN		1	6.25
R5-1	DO NOT ENTER	30"	30"	6.25		WHITE	WHITE	N/A (SYMBOL RED)	STANDARD MUTCD SIGN		2	12.50
R7-1	NO PARKING ANY TIME (WITH LEFT / RIGHT ARROW)	12"	18"	1.50		WHITE	RED	RED	STANDARD MUTCD SIGN		23	34.50
R7-108 (Mod.)	2-HR PARKING RESTRICTION (WITH LEFT / RIGHT ARROW)	12"	18"	1.50		WHITE	GREEN	GREEN	STANDARD MUTCD SIGN		3	4.50
R7-4 (Mod.)	NO PARKING ANY TIME	12"	18"	1.50		WHITE	RED	RED	STANDARD MUTCD SIGN		19	28.50
R7-6 (Mod.)	NO PARKING LOADING ZONE (WITH LEFT / RIGHT OR DUAL ARROW)	12"	18"	1.50		WHITE	RED	RED	CONSTRUCT PER CITY OF SOMERVILLE STD. DETAIL		5	7.50
R7-8	ACCESSIBLE PARKING (WITH LEFT / RIGHT ARROW)	12"	18"	1.50		WHITE	GREEN/BLUE	GREEN	STANDARD MUTCD SIGN		7	10.50
R9-23a	BICYCLE LEFT TURN FROM BIKE LANE	12"	18"	1.50		WHITE	BLACK	BLACK	STANDARD MUTCD SIGN		2	3.00
R9-23b	BICYCLE LEFT TURN MUST USE TURN BOX	12"	18"	1.50		WHITE	BLACK	BLACK	STANDARD MUTCD SIGN		1	1.50

TRAFFIC SIGN SUMMARY

**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	19	32
PROJECT FILE NO.		N/A	

SIGN SUMMARY 02



SIGN DESIGNATION	TEXT	SIZE OF SIGN		UNIT AREA (SF)	IMAGE	COLOR			NOTES	MOUNTING	NUMBER OF SIGNS REQUIRED	AREA IN SQUARE FEET
		WIDTH	HEIGHT			BACK-GROUND	LEGEND	BORDER				
R9-27	BICYCLE LEFT TURN (RIGHT DIAGONAL ARROW)	24"	6"	1.00		WHITE	BLACK	BLACK	STANDARD MUTCD SIGN	SEE PLANS	2	2.00
R9-27b	BICYCLE LEFT TURN (STRAIGHT)	24"	6"	1.00		WHITE	BLACK	BLACK	STANDARD MUTCD SIGN		2	2.00
R10-11a	NO TURN ON CIRCULAR RED	24"	30"	5.00		WHITE	BLACK & RED	BLACK	STANDARD MUTCD SIGN		5	25.00
R10-22	BICYCLE DETECTOR	12"	18"	1.50		WHITE	BLACK	BLACK	STANDARD MUTCD SIGN		2	3.00
R10-31P (Mod.)	AT NEXT SIGNAL (PLAQUE)	24"	18"	1.50		WHITE	BLACK	BLACK	STANDARD MUTCD SIGN		1	3.00
R10-40	BICYCLE SIGNAL (LEFT TURN)	12"	21"	1.75		WHITE	BLACK	BLACK	STANDARD MUTCD SIGN		3	5.25
R10-40a	BICYCLE SIGNAL (STRAIGHT)	12"	21"	1.75		WHITE	BLACK	BLACK	STANDARD MUTCD SIGN		4	7.00
R10-7	DO NOT BLOCK INTERSECTION	24"	30"	5.00		WHITE	BLACK	BLACK	STANDARD MUTCD SIGN		1	5.00
S1-1	SCHOOL	36"	36"	9.00		FLOUR. YELLOW-GREEN	BLACK	BLACK	STANDARD MUTCD SIGN		2	18.00
S4-3P	SCHOOL (PLAQUE)	24"	9"	1.50		FLOUR. YELLOW-GREEN	BLACK	BLACK	STANDARD MUTCD SIGN		2	3.00
W11-2	PEDESTRIAN	30"	30"	6.25		FLOUR. YELLOW-GREEN	BLACK	BLACK	STANDARD MUTCD SIGN		13	81.25
W14-1	DEAD END	30"	30"	6.25		YELLOW	BLACK	BLACK	STANDARD MUTCD SIGN		1	6.25
W16-7P	DIAGONAL DOWNWARD ARROW (PLAQUE)	21"	15"	2.19		FLOUR. YELLOW-GREEN	BLACK	BLACK	STANDARD MUTCD SIGN		17	37.19
MBTA-1	T BUS STOP (BUS ROUTES 87,95)	14"	18"	1.75		VAR.	VAR.	N/A	SIGNS TO BE PROVIDED BY MBTA		11	19.25
MBTA-2	NO PARKING BUS STOP (WITH LEFT ARROW)	12"	24"	2.00		WHITE	RED, BLACK	RED	SIGNS TO BE PROVIDED BY MBTA		10	20.00

TRAFFIC SIGN SUMMARY

**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	20	32
PROJECT FILE NO.		N/A	

SIGN SUMMARY 03

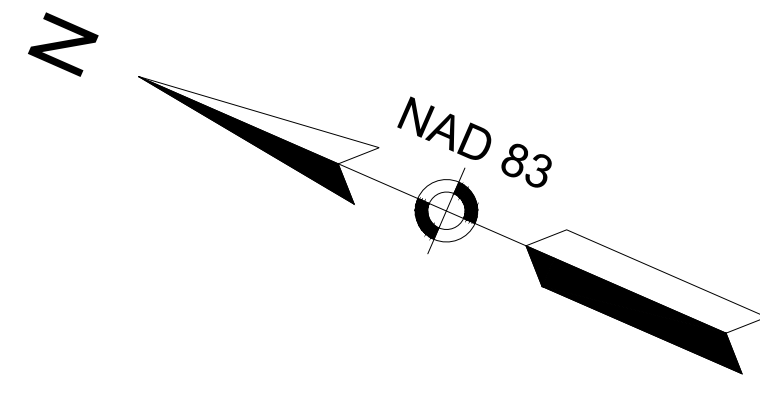


SIGN DESIGNATION	TEXT	SIZE OF SIGN		UNIT AREA (SF)	IMAGE	COLOR			NOTES	MOUNTING	NUMBER OF SIGNS REQUIRED	AREA IN SQUARE FEET
		WIDTH	HEIGHT			BACK-GROUND	LEGEND	BORDER				
NBW-A1	NEIGHBORWAY ARROW (LEFT / RIGHT)	6"	9"	0.38		PURPLE	WHITE	WHITE	ARROW WIDTH = 6"	SEE PLANS	2	0.75
NBW-D1	NEIGHBORWAY BICYCLE TWO-WAY	6"	18"	0.75		PURPLE	WHITE	WHITE	ARROW HEIGHT = 3" ICON HEIGHT = 3"		2	1.50
NBW-G1	NEIGHBORWAY GATEWAY	18"	12"	1.50		PURPLE	WHITE	WHITE	TEXT HEIGHT = 2" ICON HEIGHT = 6" (MAX.)		10	15.00
PKG-1	PERMIT PARKING ONLY (WITH LEFT / RIGHT / DUAL ARROW)	12"	12"	1.00		WHITE	BLACK	BLACK	CONSTRUCT PER CITY OF SOMERVILLE STD. DETAIL		7	7.00
PKG-2	NO PARKING STREET CLEANING	12"	18"	1.50		WHITE/RED	WHITE/RED	RED	CONSTRUCT PER CITY OF SOMERVILLE STD. DETAIL		7	10.50
SP-1	GUIDE SIGN (ELM STREET W/ RIGHT DIAGONAL ARROW)	30"	24"	5.00	SEE DETAIL ON THIS SHEET	GREEN	WHITE	WHITE	SEE DETAIL ON THIS SHEET	↓	1	5.00
TOTAL:											184	446.19



SP-1;
2.0" Radius, 0.8" Border, White on, Green;
"ELM ST", D 2K;
45 Deg Advance Turn Arrow 6.0" X 8.0";

DETAIL: SIGN SP-1
GUIDE SIGN
(ELM STREET W/ RIGHT DIAGONAL ARROW)

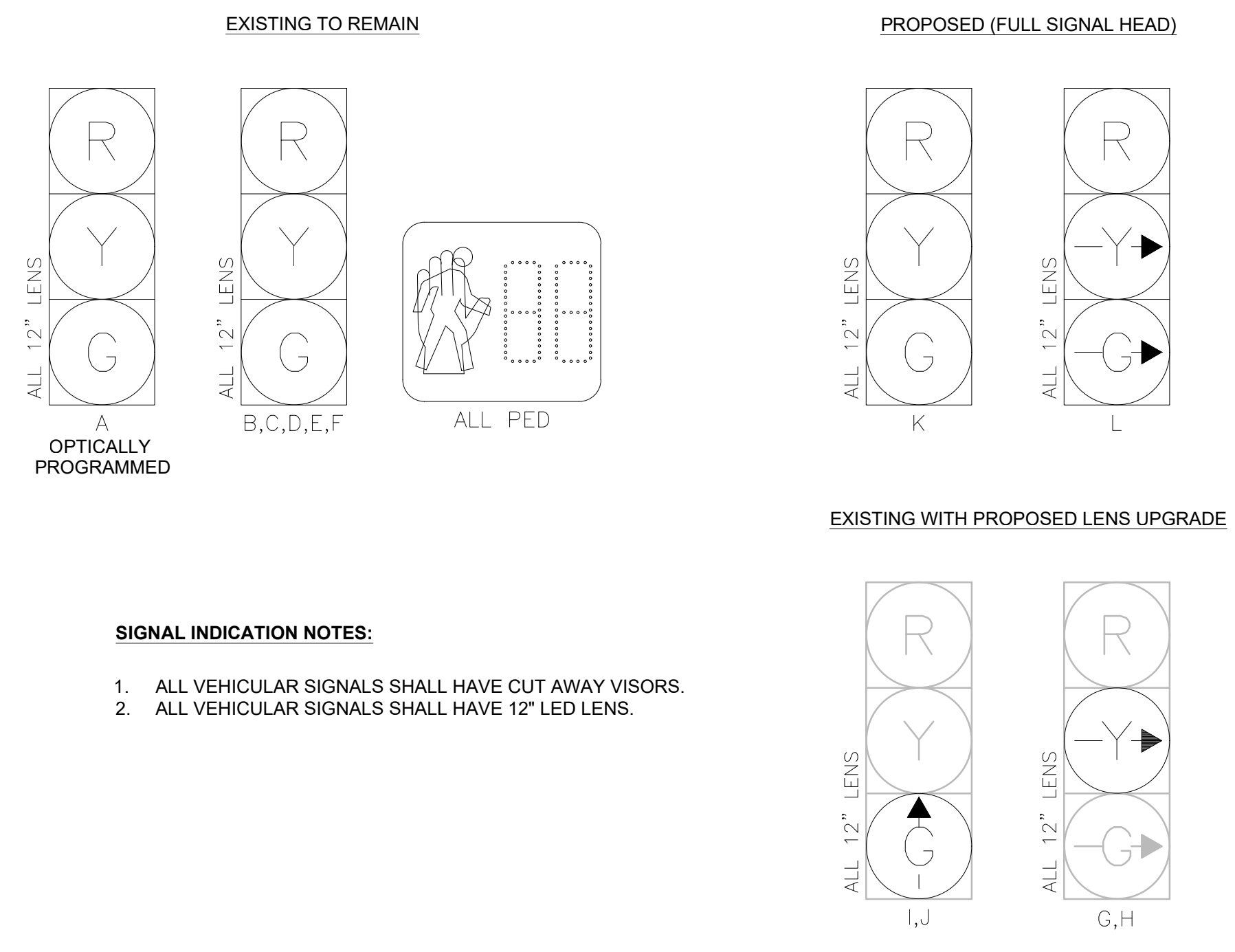


**SOMERVILLE
ELM-BEACON CONNECTOR**

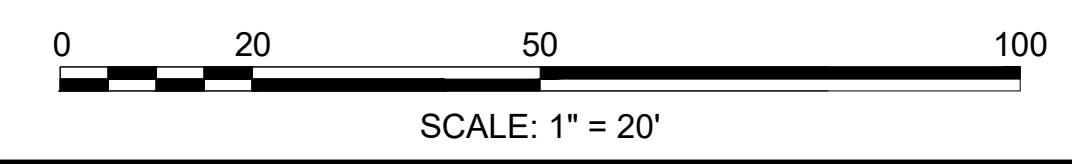
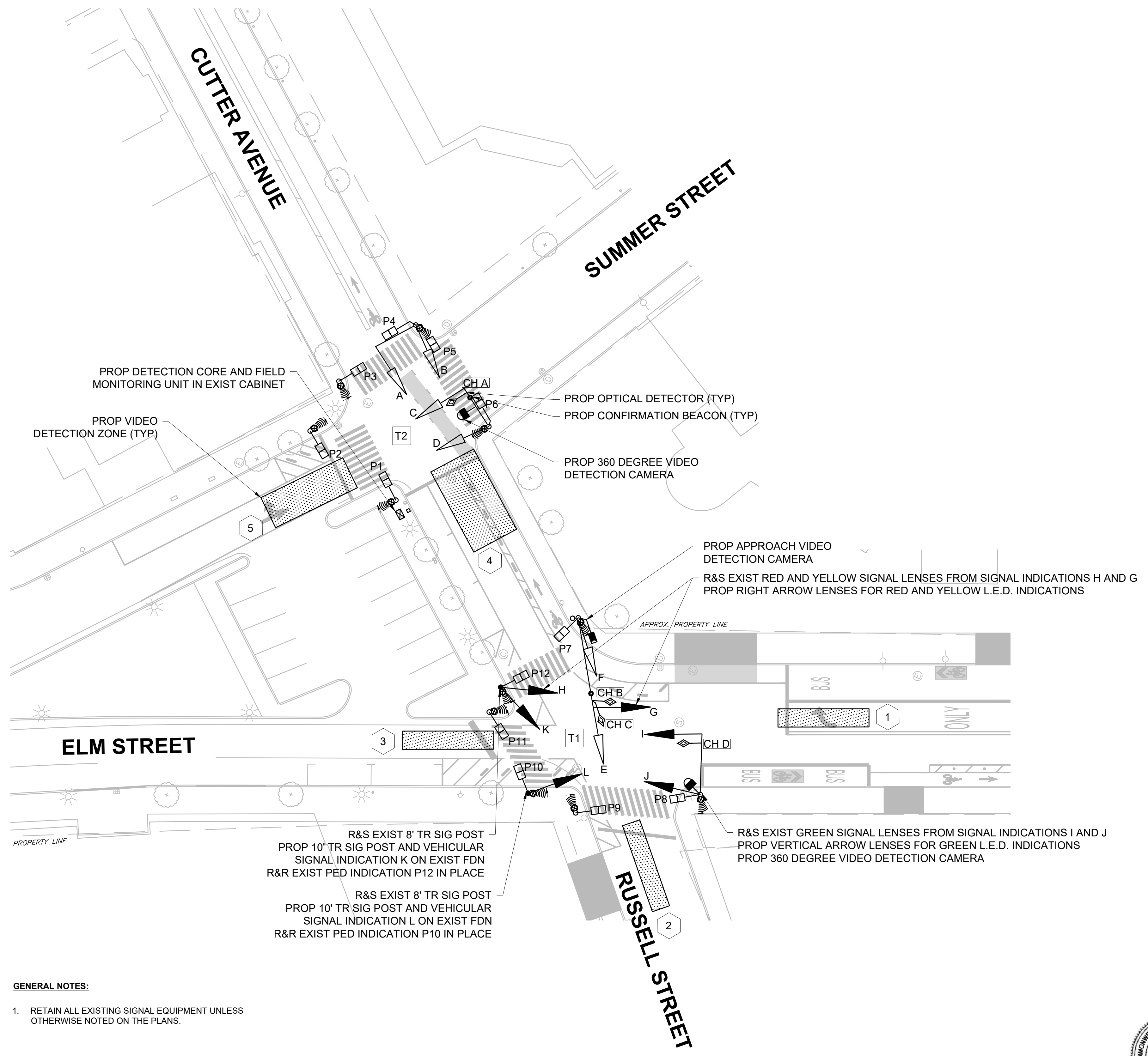
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	21	32
PROJECT FILE NO.		N/A	

**TRAFFIC SIGNAL PLAN TSP-01
ELM ST-RUSSELL ST-SUMMER ST**

SIGNAL IDENTIFICATION



- SIGNAL INDICATION NOTES:**
- ALL VEHICULAR SIGNALS SHALL HAVE CUT AWAY VISORS.
 - ALL VEHICULAR SIGNALS SHALL HAVE 12" LED LENS.

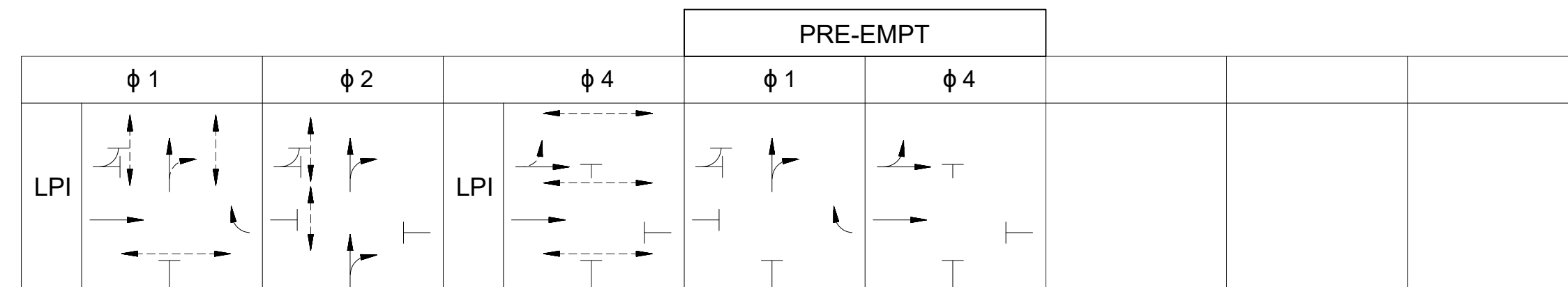
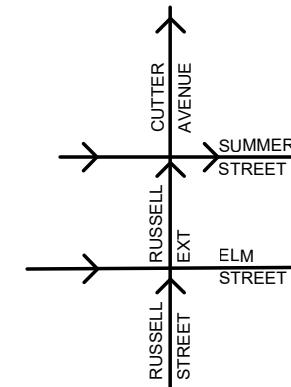


4/27/2026 L:\25065\CURRENT\CURRENTSHEETS\SigPlan_TSP01.dwg
Last Saved by: HUEBLER
Printed by: Hans Kuebler

7/27/2026
 2025065
Robbie Burgess

ELMSTREET_TR(SIGNAL PLANS)DWG Plotted on 27-Apr-2026 3:47 PM

APPROX. NORTH



SEQUENCE AND TIMING FOR FULL ACTUATED CONTROL (NON-COORDINATED)

STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	FLASH OPER.	
ELM STREET	WB	G,H,L	R	GR	YR	R	R	R	R	R	R	R	R	R	GR	YR	R	R	R										FYR	
RUSSELL EXT	NB	A,B	R	G	G	G	G	Y	R	R	R	R	R	G	Y	R	R	R	R										FY	
ELM STREET	EB	I,J	GV	Y	R	R	R	R	R	R	R	GV	GV	R	R	R	GV	Y	R										FY	
RUSSELL STREET	NB	E,F,K	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R										FR	
SUMMER STREET	EB	C,D	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	G	Y	R										FR	
SUMMER STREET	NB-SB	P1-P2	W	W	W	W	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW										OUT	
SUMMER STREET	NB-SB	P5-P6	W	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW											OUT
RUSSELL STREET	EB-WB	P8-P9	W	W/FDW	DW	DW	DW	DW	DW	W	W	W	W	DW	DW	DW	DW	DW	DW											OUT
ELM STREET	NB-SB	P10-P11	DW	DW	DW	DW	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW											OUT
RUSSELL EXT	EB-WB	P7-P12	DW	DW	DW	DW	DW	DW	DW	W	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW											OUT
CUTTER AVENUE	EB-WB	P3-P4	DW	DW	DW	DW	DW	DW	DW	W	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW											OUT

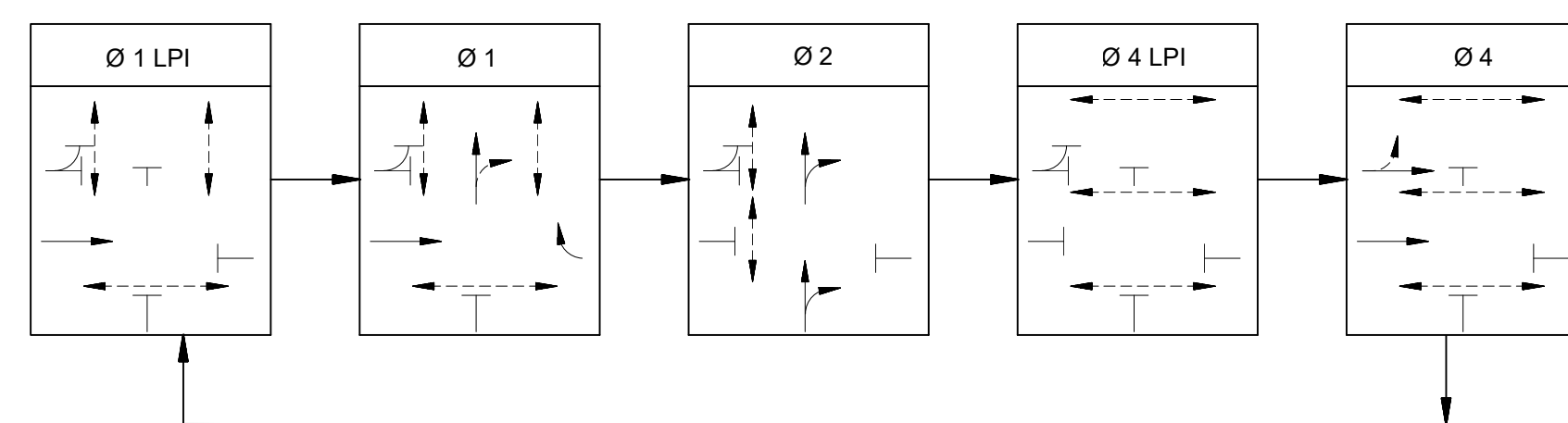
TIMING IN SECONDS

MINIMUM GREEN (INITIAL)	-	7		9										6																
PASSAGE TIME (VEHICLE)	-	3		3																										
MAXIMUM 1	-	11		31																										
MAXIMUM 2	-	-		-																										
YELLOW CLEARANCE			3.5		3.5						3.5			3.5					3.5											
RED CLEARANCE				1				1					1			1			1											
WALK (W)		6	1		7					6	1																			
PEDESTRIAN CLEARANCE			10		10					10																				
RECALL			PED		PED		PED																							
MEMORY			NON-LOCKING		NON-LOCKING		NON-LOCKING																							

EMERGENCY ONLY

- NOTES:**
- MAXIMUM 1 OPERATES AT ALL TIMES.
 - IF THE ASSIGNED RIGHT OF WAY FOR ANY VEHICLE OR PEDESTRIAN MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT SHALL NOT CHANGE DURING THE CHANGE OR CLEARANCE INTERVALS UNLESS OTHERWISE NOTED.

PREFERENTIAL PHASING SEQUENCE



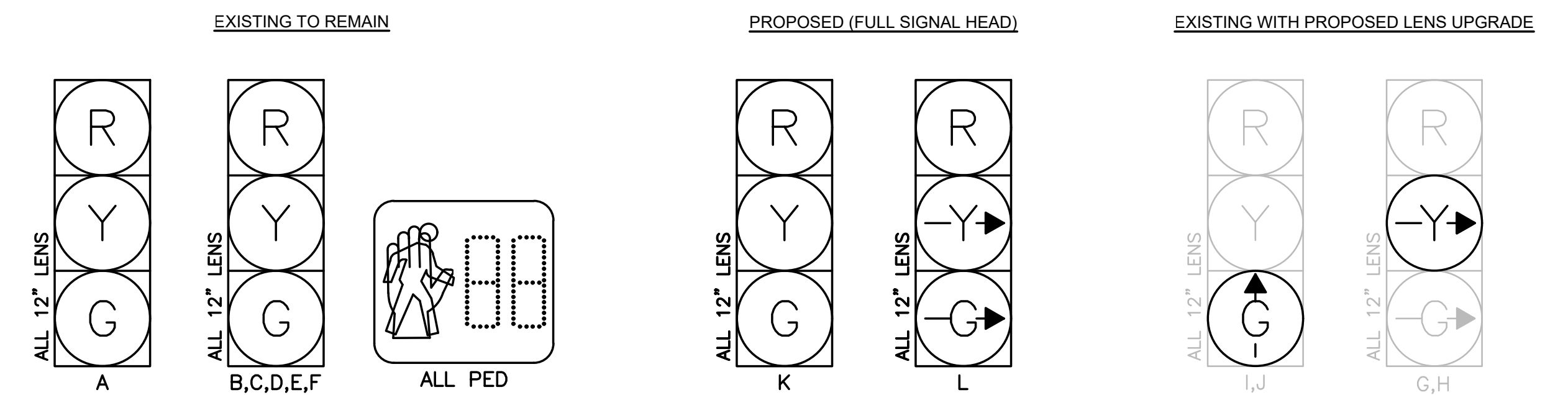
FIRE PREEMPTION SCHEDULE

CHANNEL	APPROACH	PREEMPTION PHASE	NEXT PHASE CALLED
A	SUMMER ST EB	PRE-EMPT φ 4	1
B	ELM ST WB	PRE-EMPT φ 1	2
C	RUSSELL ST NB	2	4
D	ELM ST EB	PRE-EMPT φ 4	2

EMERGENCY VEHICLE PREEMPTION OPERATION:

- EMERGENCY VEHICLE PREEMPTION CAPABILITIES SHALL BE ACCESSIBLE REMOTELY THROUGH FIELD MONITORING UNIT CONNECTIVITY. EMERGENCY VEHICLE PREEMPTION CALLS RECEIVED REMOTELY SHALL BE SERVED FIRST, THEN ANY CALLS RECEIVED BY OPTICAL DETECTORS WILL BE SERVED SECONDARY.
- EMERGENCY VEHICLE PREEMPTION SHALL BE ACTUATED BY AN OPTICAL SIGNAL FROM AN OPTICAL EMITTER MOUNTED ON AN EMERGENCY VEHICLE AND RECEIVED BY AN OPTICAL DETECTOR LOCATED AT INTERSECTION. A SEPARATE RECEIVING DETECTOR IS REQUIRED FOR EACH DETECTED APPROACH.
- PREEMPTION SIGNALS FROM MULTIPLE APPROACHES SHALL BE SERVICED ON A FIRST DETECTED FIRST SERVED BASIS.
- IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED AT AN INTERSECTION BY AN OPTICAL DETECTOR, THE CONTROLLER SHALL TIME THE CLEARANCE INTERVALS OF THE ACTIVE PHASE (IF DIFFERENT THAT TO BE SERVICED) AND ADVANCE TO AND/OR HOLD IN EMERGENCY VEHICLE PREEMPTION PHASE UNTIL PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME CLEARANCES AND SIMILARLY SERVICE OTHER EMERGENCY VEHICLE PREEMPTION SEQUENCES IN THE ORDER RECEIVED (IF RECEIVED) OTHERWISE, RESUME NORMAL PREFERENTIAL PHASE SEQUENCE.
- PREEMPTION MINIMUM GREENS SHALL BE SIX SECONDS.
- ACTUAL TIMING FOR PREEMPTION SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FIRE DEPARTMENT AND SHALL BE APPROVED BY CITY OF SOMERVILLE ENGINEERING DIVISION PRIOR TO OPERATION.

SIGNAL IDENTIFICATION



ROBBIE J. BURGESS
CIVIL
No. 47600
REGISTERED
PROFESSIONAL ENGINEER
7/27/2020
2025065

SIGNAL INDICATION NOTES:

- ALL VEHICULAR SIGNALS SHALL HAVE CUT AWAY VISORS.
- ALL VEHICULAR SIGNALS SHALL HAVE 12" LED LENS.

**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	22	32
PROJECT FILE NO.		N/A	

**TRAFFIC SIGNAL DATA
ELM ST-RUSSELL ST-SUMMER ST**

PAY ITEM	QUANTITY	ITEM
816.01	1	12" - 3 SECTION (R,Y,G) L.E.D. VEHICLE SIGNAL INDICATION
	1	12" - 3 SECTION (R,YR,GR) L.E.D. VEHICLE SIGNAL INDICATION
	4	12" - L.E.D. LENS (GV AND YR) REPLACEMENT
	2	10' TRAFFIC SIGNAL POST
	2	PRE-EMPTION CONFIRMATION BEACON (WHITE)
	4	OPTICAL DETECTOR (1-WAY) FOR PRE-EMPTION
	2	360 DEGREE DETECTION CAMERA
	1	APPROACH DETECTION CAMERA
	1	DETECTION CORE
	1	REPROGRAM CONTROLLER
	1	INTERNET CONNECTED FIELD MONITORING UNIT

Plus all necessary duct, cable, labor, miscellaneous material and equipment to complete the installation.

VIDEO DETECTION DATA

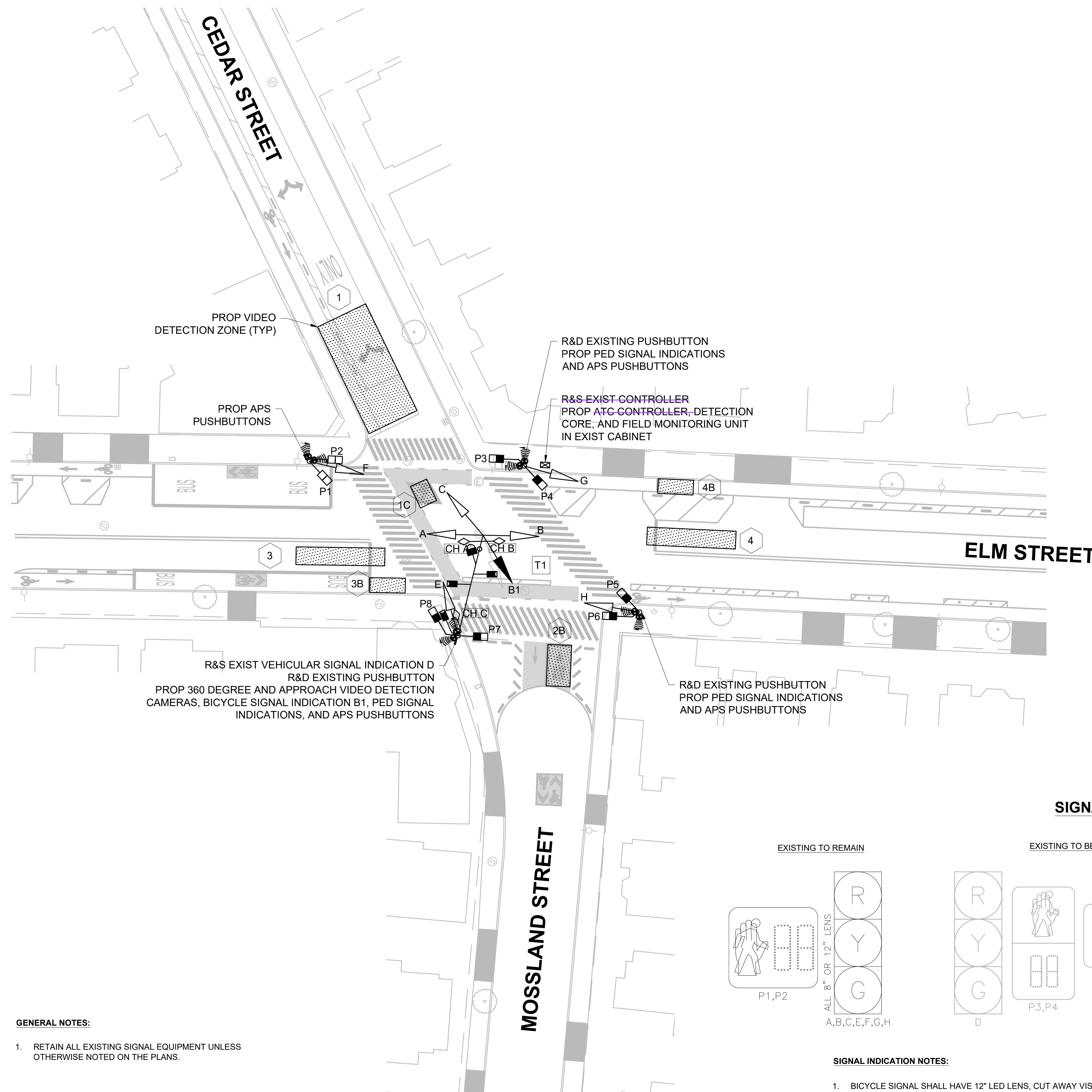
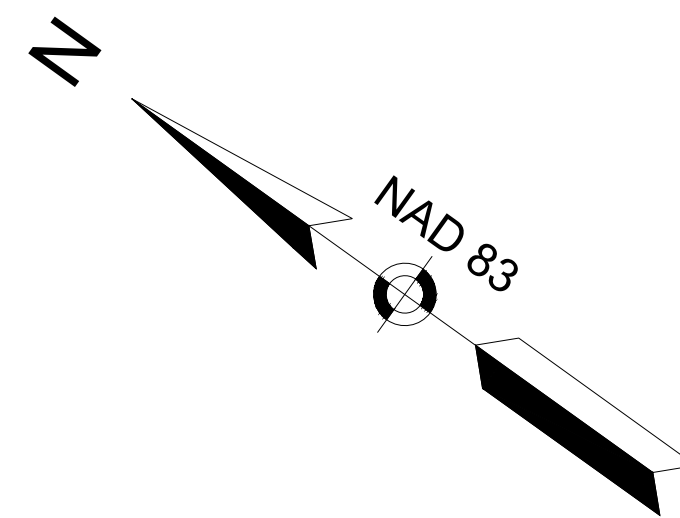
DETECTOR NUMBER	NUMBER OF SEGMENTS	DETECTION ZONE SIZE	NUM. OF TURNS	Ø CALLED	Ø EXT.	MODE A=PULSE B=PRES.	DELAY TIME	EXT. TIME
1	-	6' X 30'	-	Ø1	Ø1	B=PRES	-	-
2	-	6' X 30'	-	Ø2	Ø2	B=PRES	-	-
3	-	6' X 30'	-	Ø1	Ø1	B=PRES	-	-
4	-	16' X 30'	-	Ø1	Ø1	B=PRES	-	-
5	-	11' X 30'	-	Ø4	Ø4	B=PRES	-	-

T1 & T2 CONTRACTOR OR CITY OF SOMERVILLE TO CONFIGURE ZONES AND USER PATHS AS NEEDED FOR TURNING MOVEMENT COUNTS

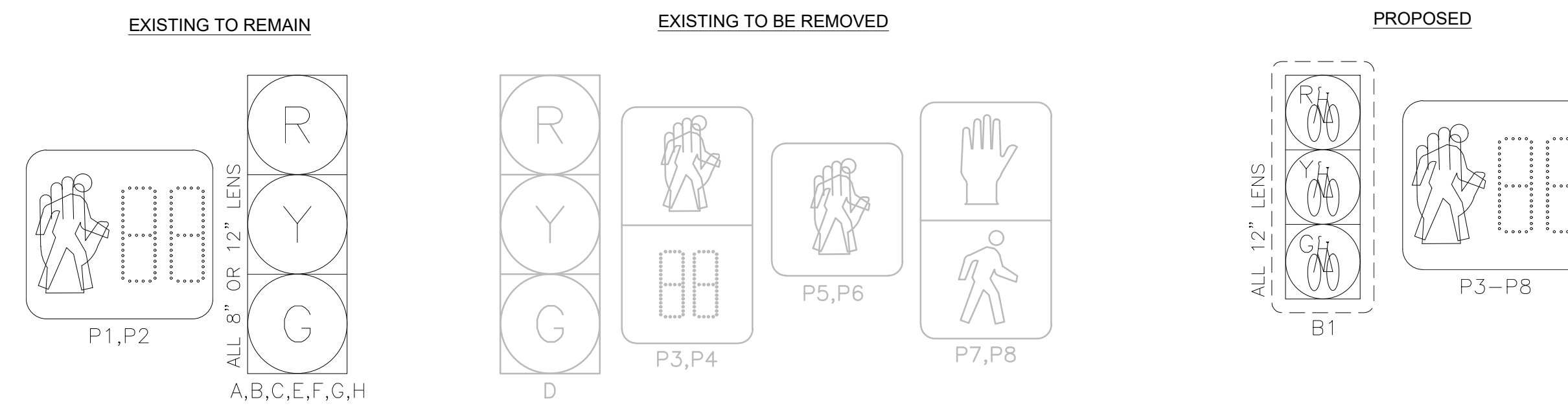
**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	23	32
PROJECT FILE NO.		N/A	

**TRAFFIC SIGNAL PLAN TSP-02
ELM STREET AT CEDAR STREET**



SIGNAL IDENTIFICATION

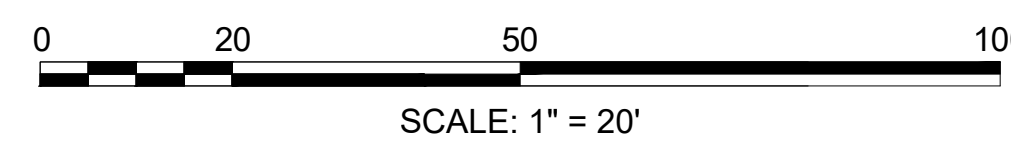


SIGNAL INDICATION NOTES:

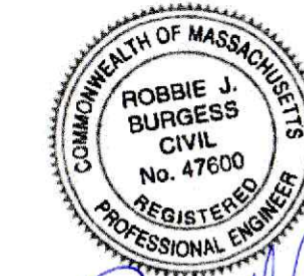
- BICYCLE SIGNAL SHALL HAVE 12" LED LENS, CUT AWAY VISORS, AND 5" LOUVERED BACK PLATES WITH 3" RETROREFLECTIVE TAPE.
- ALL PEDESTRIAN SIGNAL INDICATIONS SHALL BE 16" LED WITH SOLID WALK/HAND (FULL OVERLAY) INTERNATIONAL SYMBOLS, AND COUNTDOWN.

GENERAL NOTES:

- RETAIN ALL EXISTING SIGNAL EQUIPMENT UNLESS OTHERWISE NOTED ON THE PLANS.



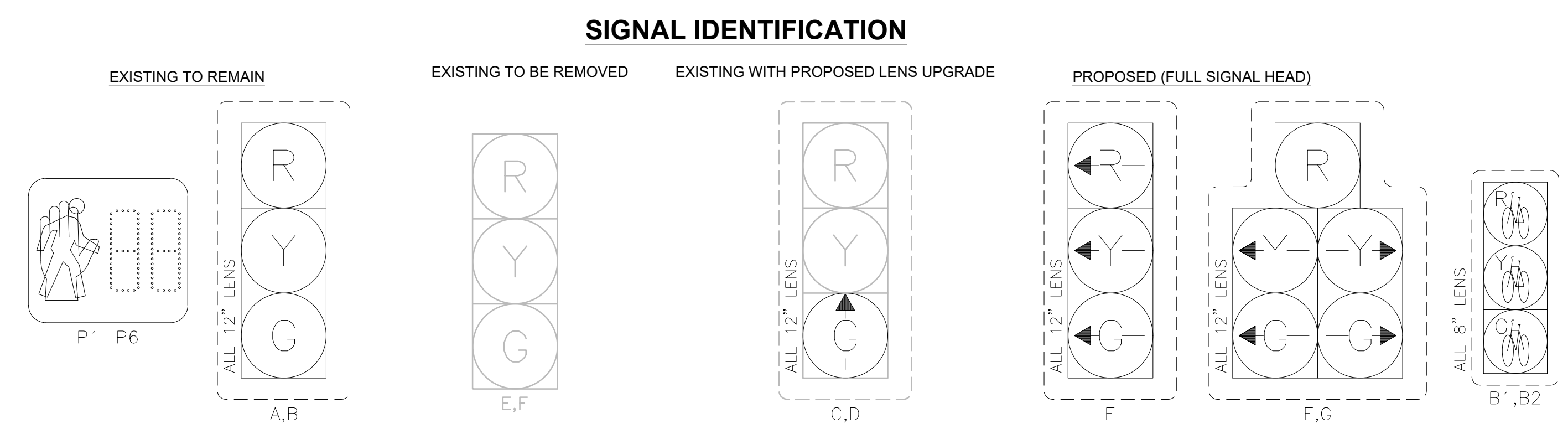
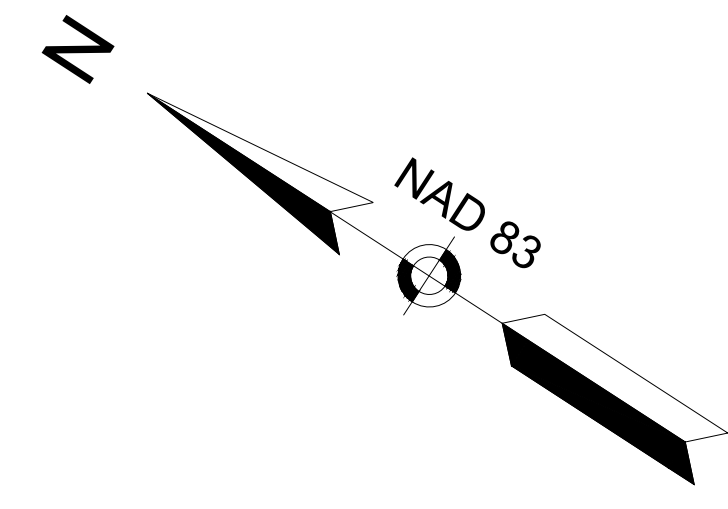
7/27/2026
2025065
[Signature]



**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	25	32
PROJECT FILE NO.		N/A	

**TRAFFIC SIGNAL PLAN TSP-03
SOMERVILLE AVENUE AT ELM STREET**

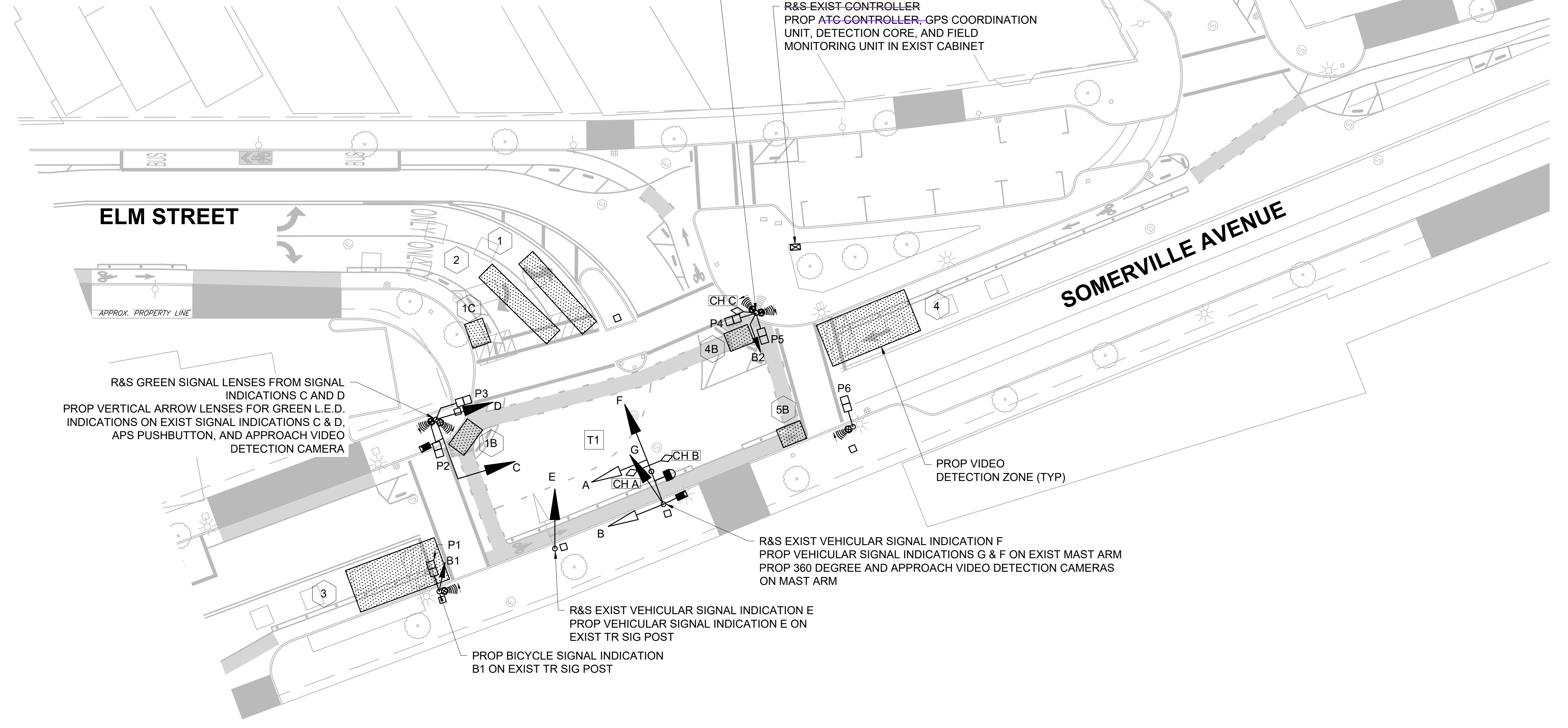


SIGNAL INDICATION NOTES:

1. ALL VEHICULAR SIGNALS SHALL HAVE CUT AWAY VISORS.
2. ALL VEHICULAR SIGNALS SHALL HAVE 12" LED LENS.
3. ALL BICYCLE SIGNALS SHALL HAVE 8" LED LENS.
4. ALL VEHICULAR SIGNALS SHALL HAVE 5" LOUVERED BACK PLATES WITH 3" RETROREFLECTIVE TAPE.

R&R EXIST PUSHBUTTON IN PLACE
PROP APS PUSHBUTTON AND BICYCLE
SIGNAL INDICATION B2 ON EXIST TR SIG POST

R&S EXIST CONTROLLER
PROP ATC CONTROLLER, GPS COORDINATION
UNIT, DETECTION CORE, AND FIELD
MONITORING UNIT IN EXIST CABINET



R&S GREEN SIGNAL LENSES FROM SIGNAL
INDICATIONS C AND D
PROP VERTICAL ARROW LENSES FOR GREEN L.E.D.
INDICATIONS ON EXIST SIGNAL INDICATIONS C & D,
APS PUSHBUTTON, AND APPROACH VIDEO
DETECTION CAMERA

PROP VIDEO
DETECTION ZONE (TYP)

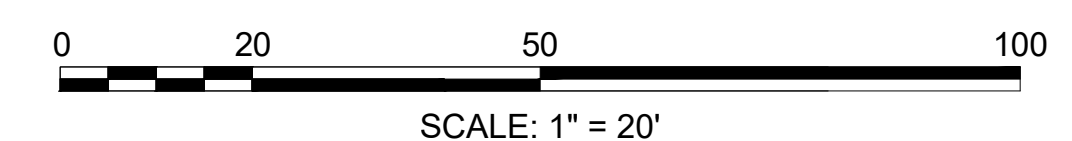
R&S EXIST VEHICULAR SIGNAL INDICATION F
PROP VEHICULAR SIGNAL INDICATIONS G & F ON EXIST MAST ARM
PROP 360 DEGREE AND APPROACH VIDEO DETECTION CAMERAS
ON MAST ARM

R&S EXIST VEHICULAR SIGNAL INDICATION E
PROP VEHICULAR SIGNAL INDICATION E ON
EXIST TR SIG POST

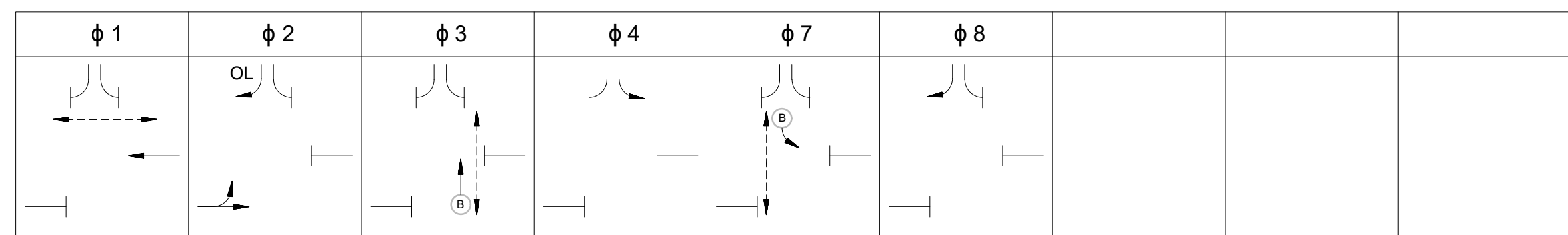
PROP BICYCLE SIGNAL INDICATION
B1 ON EXIST TR SIG POST

GENERAL NOTES:

1. RETAIN ALL EXISTING SIGNAL EQUIPMENT UNLESS OTHERWISE NOTED ON THE PLANS.
2. ABANDON LOOP DETECTORS AND REMOVE AND DISCARD CABLE ASSOCIATED WITH LOOPS FROM CONDUIT.



APPROX. NORTH



SEQUENCE AND TIMING FOR FULL ACTUATED CONTROL (COORDINATED)

STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	FLASH OPER.
SOMERVILLE AVENUE	EB	A,B	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R										FY
SOMERVILLE AVENUE	WB	C,D	GV	Y	R	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL										FY
ELM STREET	SBL	F	RL	RL	RL	RL	RL	RL	RL	RL	GL	YL	RL	RL	RL	RL	RL	RL	RL	RL										FRL
ELM STREET	SBL & SBR	E,G	R	R	R	GR	YR	R	R	R	R	GL	YL	R	R	R	R	R	GR	YR										FR
ELM STREET (BIKE)	SBL	B1	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R										FR
SOMERVILLE AVENUE (BIKE)	EBL	B2	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R										FR
SOMERVILLE AVENUE (PEDS)	NB-SB	P1-P2	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW										OUT
SOMERVILLE AVENUE (PEDS)	NB-SB	P5-P6	DW	DW	DW	DW	DW	DW	W	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW										OUT
ELM STREET (PEDS)	EB-WB	P3-P4	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW										OUT

TIMING IN SECONDS

MINIMUM GREEN (INITIAL)	20		15		6		15		6		15																			
PASSAGE TIME (VEHICLE)	3		3		3		3		3		3																			
MAXIMUM 1	33		18		14		32		16		30																			
MAXIMUM 2	33		28		14		22		16		20																			
YELLOW CLEARANCE		3		3.5		3		3		3		3																		
RED CLEARANCE			2		3.5		3		2.5		3																			
WALK (W)	7					7				7																				
PEDESTRIAN CLEARANCE	26									10																				
RECALL			PED		SOFT		PED		OFF		PED			OFF																
MEMORY			NON-LOCKING		NON-LOCKING		LOCKING		NON-LOCKING		LOCKING			NON-LOCKING																

EMERGENCY ONLY

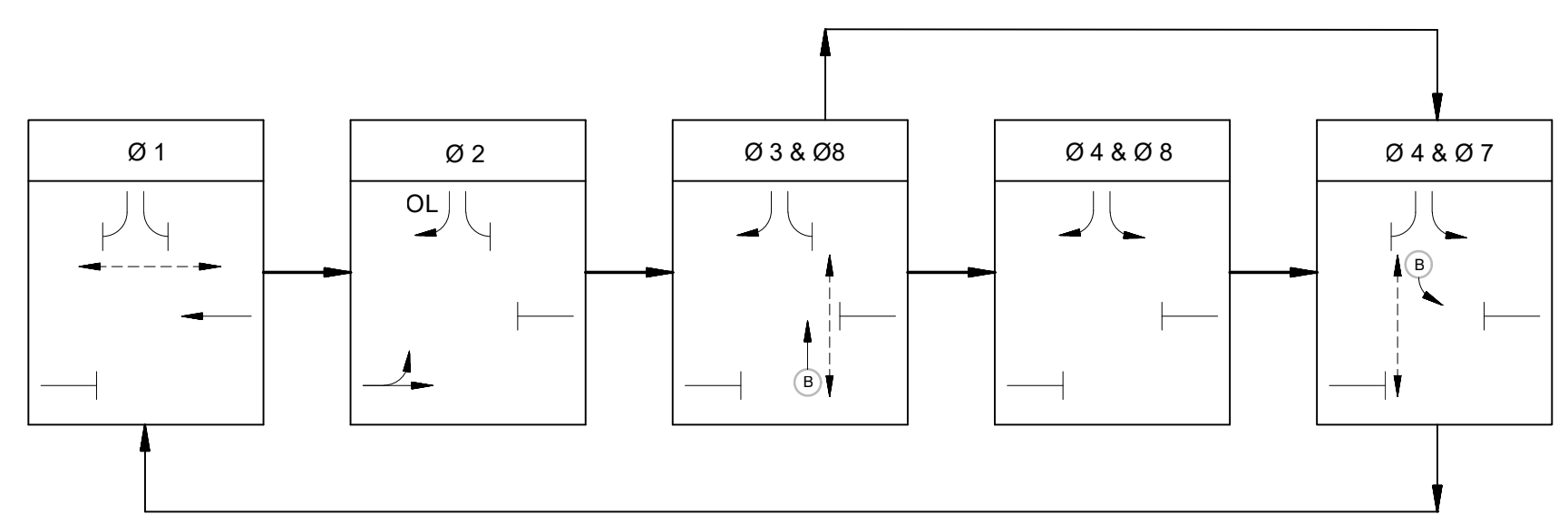
TIME OF DAY DATA

TIMING PLAN	CYCLE LENGTH	REF/OFFSET	SEC.	SEC.	SEC.	SEC.	SEC.	SEC.	SEC.	SEC.	SEC.
7:00 AM - 10:00 AM	120	82	38	25	-	37	-	35			
2:00 PM - 8:00 PM	120	90	38	35	-	27	-	25			

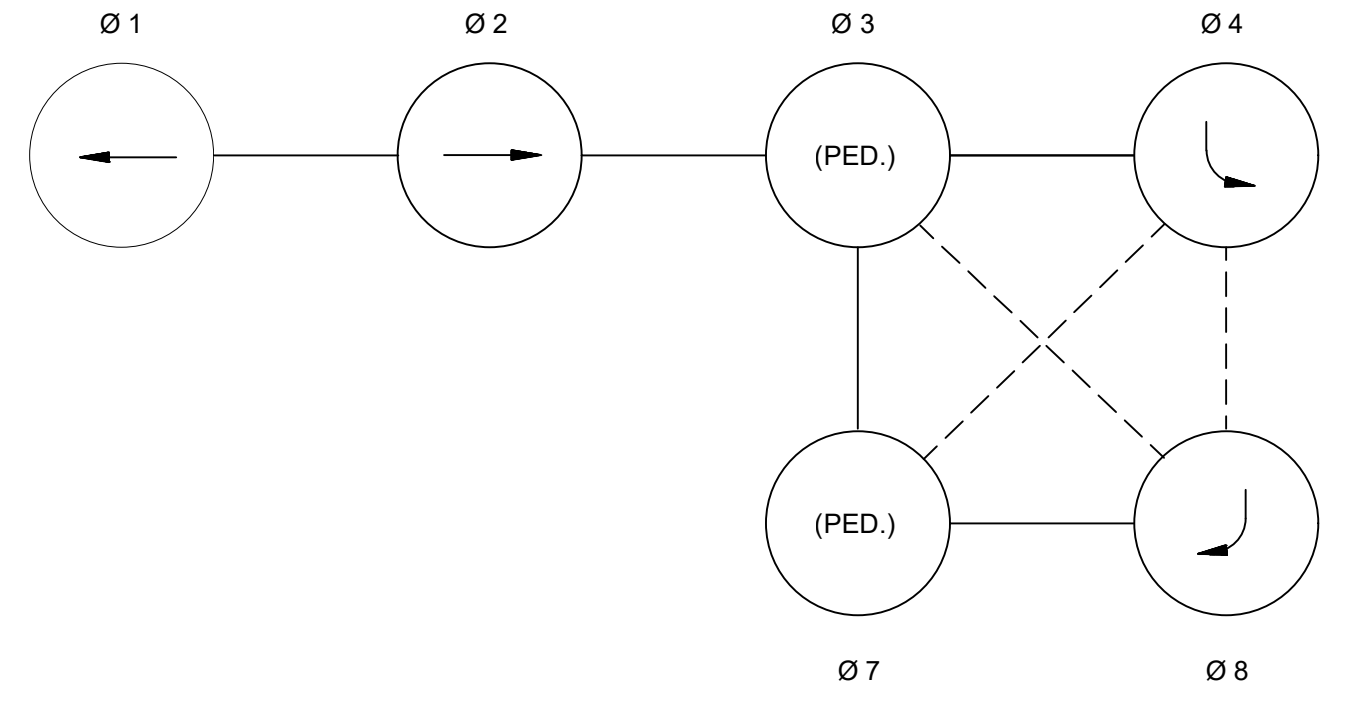
NOTES:

- MAXIMUM 1 OPERATES BETWEEN 7:00 A.M. TO 10:00 A.M. MON-FRI.
- MAXIMUM 2 OPERATES AT ALL OTHER TIMES.
- PHASE Ø2 SHALL BE THE COORDINATED PHASE. COORDINATION POINT SHALL BE AT THE START OF GREEN.
- MASTER CONTROLLER IS AT SOMERVILLE AVENUE/MOSSLAND STREET/BEACON STREET.

PREFERENTIAL PHASING SEQUENCE



NEMA DUAL RING PHASING NOTES:



NOTES:

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

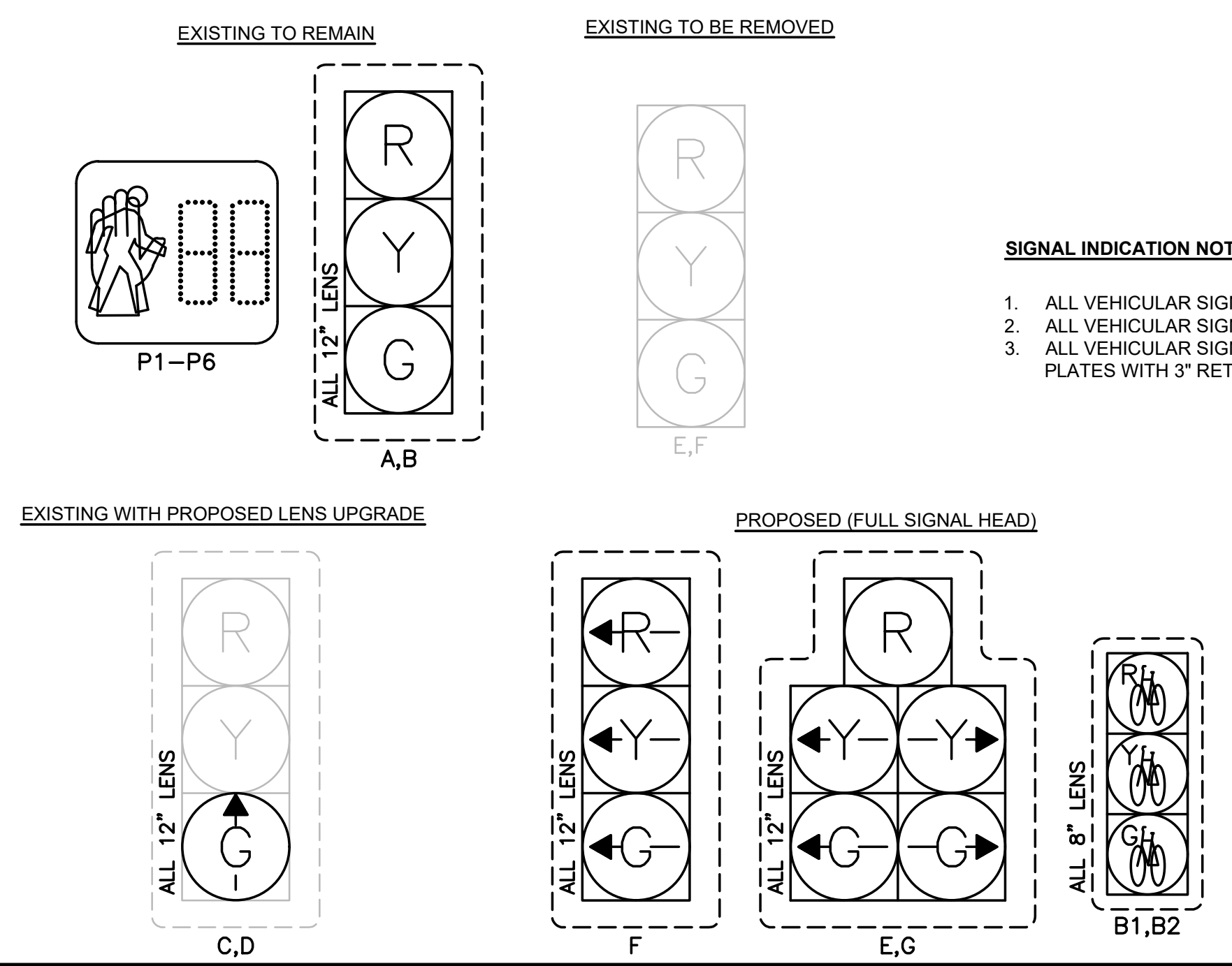
FIRE PREEMPTION SCHEDULE

CHANNEL	APPROACH	PREEMPTION PHASE	NEXT PHASE CALLED
A	EASTBOUND	2	3 & 8
B	WESTBOUND	1	2
C	SOUTHBOUND	4 & 8	4 & 7

EMERGENCY VEHICLE PREEMPTION OPERATION:

- EMERGENCY VEHICLE PREEMPTION CAPABILITIES SHALL BE ACCESSIBLE REMOTELY THROUGH FIELD MONITORING UNIT CONNECTIVITY. EMERGENCY VEHICLE PREEMPTION CALLS RECEIVED REMOTELY SHALL BE SERVED FIRST, THEN ANY CALLS RECEIVED BY OPTICAL DETECTORS WILL BE SERVED SECONDARY.
- EMERGENCY VEHICLE PREEMPTION SHALL BE ACTUATED BY AN OPTICAL SIGNAL FROM AN OPTICAL EMITTER MOUNTED ON AN EMERGENCY VEHICLE AND RECEIVED BY AN OPTICAL DETECTOR LOCATED AT INTERSECTION. A SEPARATE RECEIVING DETECTOR IS REQUIRED FOR EACH DETECTED APPROACH.
- PREEMPTION SIGNALS FROM MULTIPLE APPROACHES SHALL BE SERVED ON A FIRST DETECTED (FIRST SERVED) BASIS.
- IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED AT AN INTERSECTION BY AN OPTICAL DETECTOR, THE CONTROLLER SHALL TIME THE CLEARANCE INTERVALS OF THE ACTIVE PHASE (IF DIFFERENT THAT TO BE SERVED) AND ADVANCE TO AND/OR HOLD IN EMERGENCY VEHICLE PREEMPTION PHASE UNTIL PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME CLEARANCES AND SIMILARLY SERVICE OTHER EMERGENCY VEHICLE PREEMPTION SEQUENCES IN THE ORDER RECEIVED (IF RECEIVED) OTHERWISE, RESUME NORMAL PREFERENTIAL PHASE SEQUENCE.
- PREEMPTION MINIMUM GREENS SHALL BE SIX SECONDS.
- ACTUAL TIMING FOR PREEMPTION SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FIRE DEPARTMENT AND SHALL BE APPROVED BY CITY OF SOMERVILLE ENGINEERING DIVISION PRIOR TO OPERATION.

SIGNAL IDENTIFICATION



SIGNAL INDICATION NOTES:

- ALL VEHICULAR SIGNALS SHALL HAVE CUT AWAY VISORS.
- ALL VEHICULAR SIGNALS SHALL HAVE 12" LED LENS.
- ALL VEHICULAR SIGNALS SHALL HAVE 5" LOUVERED BACK PLATES WITH 3" RETROREFLECTIVE TAPE.

**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	26	32

PROJECT FILE NO. N/A

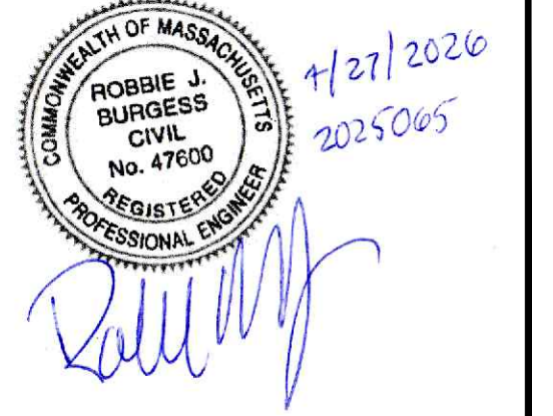
**TRAFFIC SIGNAL DATA
SOMERVILLE AVENUE AT ELM STREET**

PAY ITEM	QUANTITY	ITEM
816.03	1	ADVANCED TRAFFIC CONTROLLER (ATC) IN EXISTING CABINET
	1	12" - 3 SECTION (RL, YL, GL) L.E.D. VEHICLE SIGNAL INDICATION WITH BACKPLATE
	2	12" - 5 SECTION (R, YR, GR, YL, GL) L.E.D. VEHICLE SIGNAL INDICATION WITH BACKPLATE
	2	12" - L.E.D. LENS (GV) REPLACEMENT
	2	8" - 3 SECTION (R, Y, G BICYCLE) L.E.D. BICYCLE SIGNAL INDICATION WITH BACKPLATE
	2	APS PUSH BUTTON WITH R10-3E(L/R) SIGN AND SADDLE
	1	360 DEGREE DETECTION CAMERA
	2	APPROACH DETECTION CAMERA
	1	DETECTION CORE
	1	REPROGRAM CONTROLLER
	1	INTERNET CONNECTED FIELD MONITORING UNIT
	1	GPS COORDINATION UNIT FOR CONTROLLER CABINET

Plus all necessary duct, cable, labor, miscellaneous material and equipment to complete the installation.

VIDEO DETECTION DATA

DETECTOR NUMBER	NUMBER OF SEGMENTS	DETECTION ZONE SIZE	NUM. OF TURNS	Ø CALLED	Ø EXT.	MODE A=PULSE B=PRES.	DELAY TIME	EXT. TIME
1	-	6' X 30'	-	Ø4	Ø4	B=PRES	0	0
1B	-	6' X 10'	-	Ø7	Ø7	B=PRES	10 SEC.	0
1C	-	6' X 8'	-	Ø7	-	B=PRES	10 SEC.	0
2	-	6' X 30'	-	Ø8	Ø8	B=PRES	0	0
3	-	14' X 30'	-	Ø2	Ø2	B=PRES	0	0
4	-	14' X 30'	-	Ø1	Ø1	B=PRES	0	0
4B	-	6' X 8'	-	Ø1	Ø1	B=PRES	10 SEC.	0
5B	-	6' X 8'	-	Ø3	Ø3	B=PRES	10 SEC.	0
T1	CONTRACTOR OR CITY OF SOMERVILLE TO CONFIGURE ZONES AND USER PATHS AS NEEDED FOR TURNING MOVEMENT COUNTS							

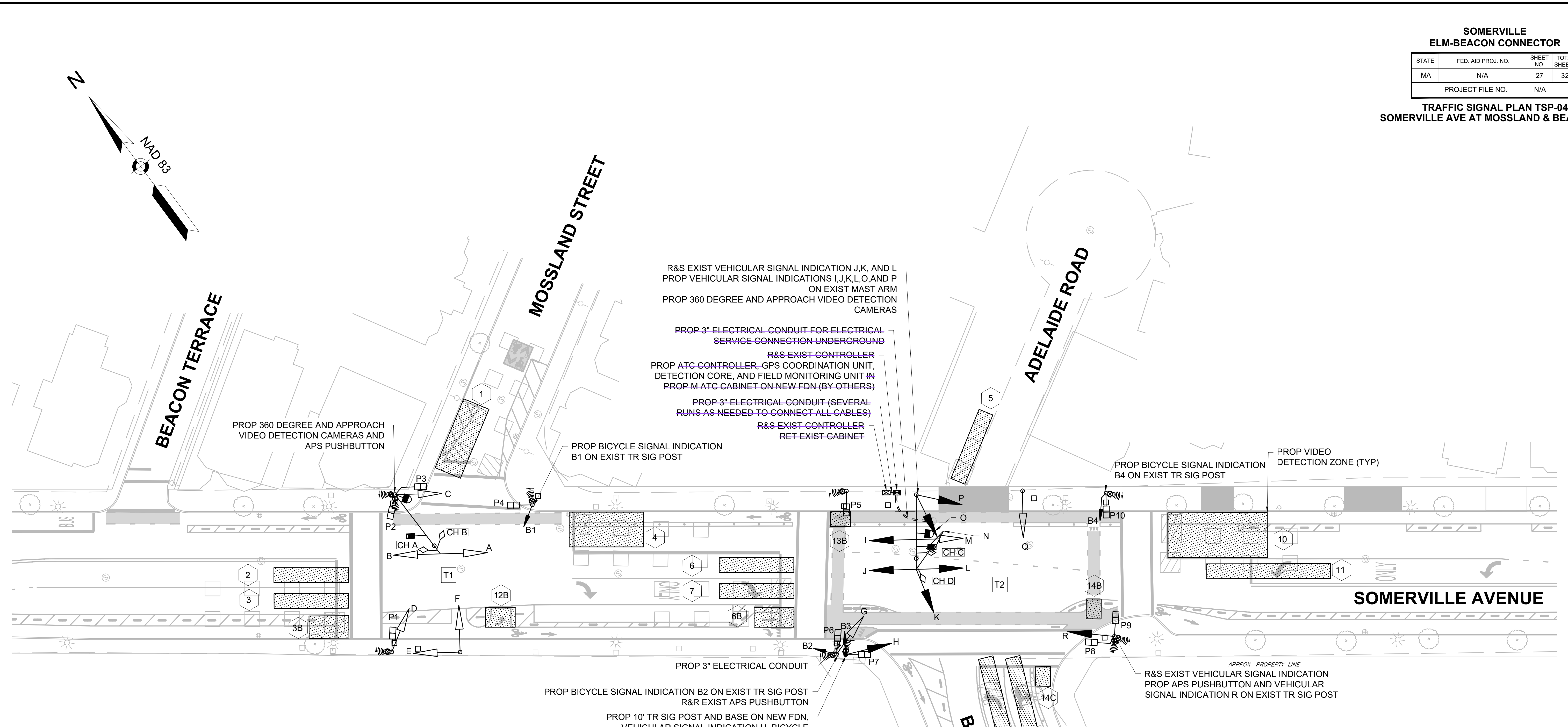


**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	27	32
PROJECT FILE NO.		N/A	

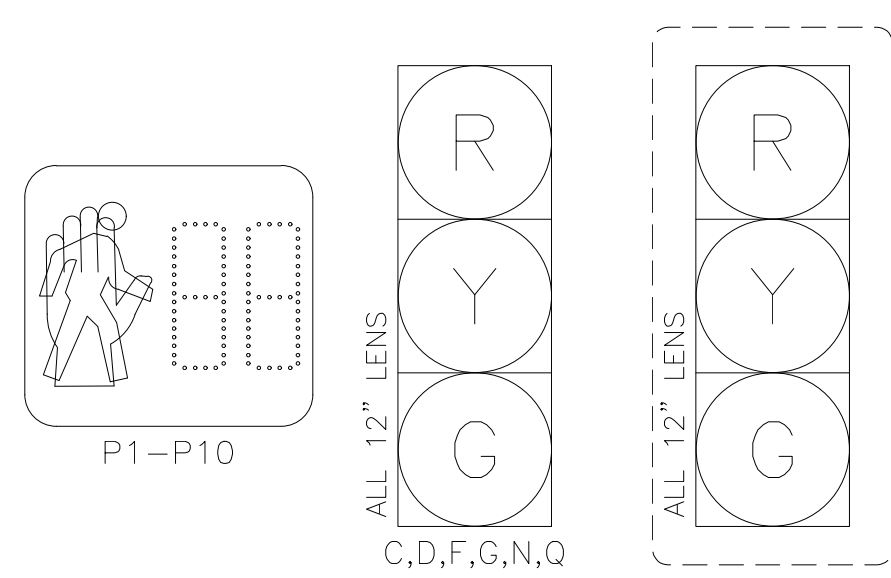
**TRAFFIC SIGNAL PLAN TSP-04
SOMERVILLE AVE AT MOSSLAND & BEACON ST**

ELMSTREET_TR(SIGNAL PLANS).DWG Plotted on 27-Apr-2026 3:48 PM

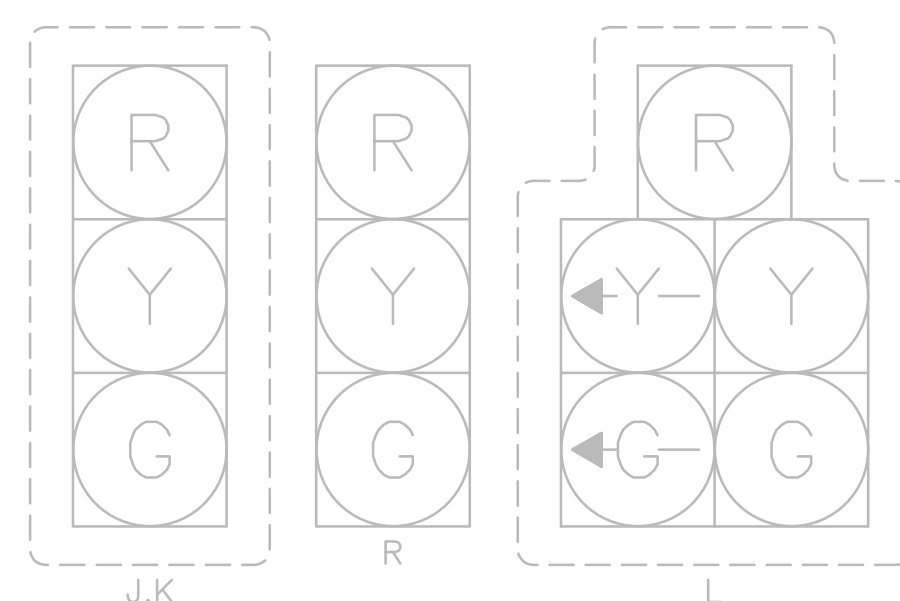


SIGNAL IDENTIFICATION

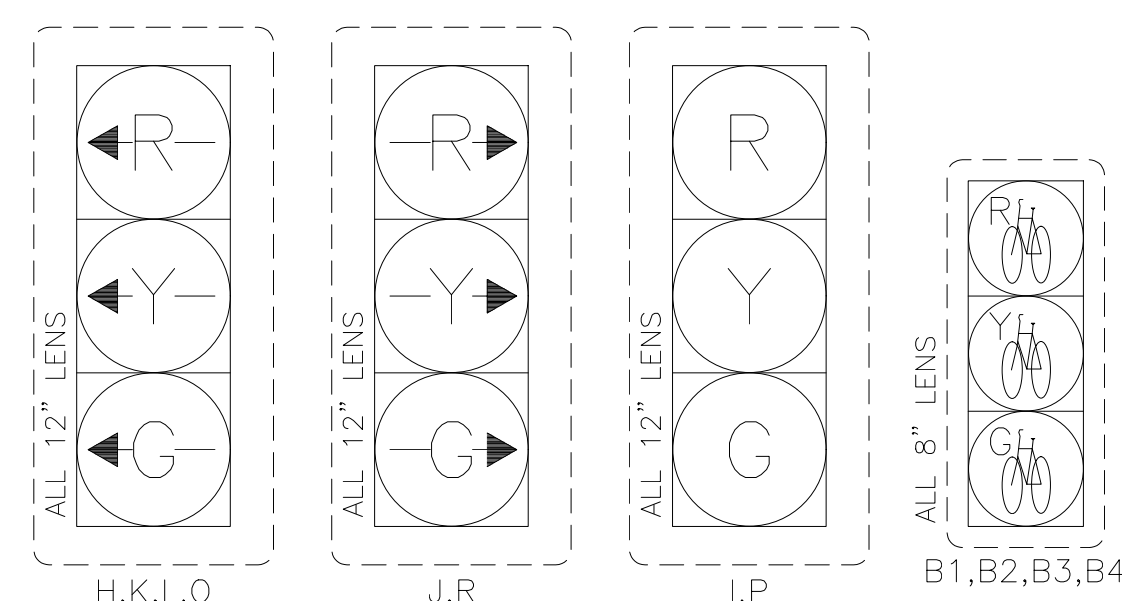
EXISTING TO REMAIN



EXISTING TO BE REMOVED



PROPOSED

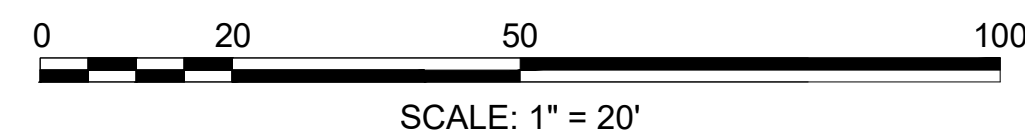


SIGNAL INDICATION NOTES:

- ALL VEHICULAR SIGNALS SHALL HAVE CUT AWAY VISORS.
- ALL VEHICULAR SIGNALS SHALL HAVE 12" LED LENS.
- ALL BICYCLE SIGNALS SHALL HAVE 8" LED LENS.
- ALL VEHICULAR & BICYCLE SIGNALS SHALL HAVE 5" LOUVERED BACK PLATES WITH 3" RETROREFLECTIVE TAPE.

GENERAL NOTES:

- RETAIN ALL EXISTING SIGNAL EQUIPMENT UNLESS OTHERWISE NOTED ON THE PLANS.
- ABANDON LOOP DETECTORS AND REMOVE AND DISCARD CABLE ASSOCIATED WITH LOOPS FROM CONDUIT.
- THE PROPOSED LOCATIONS FOR ANY NEW TRAFFIC SIGNAL POSTS OR CABINETS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED AND ADJUSTED AS NEEDED BASED ON EXISTING UNDERGROUND UTILITIES. UNDERGROUND CONDITIONS ARE UNKNOWN AND SURVEY WAS NOT AVAILABLE FOR PROPOSED DESIGN LOCATIONS.

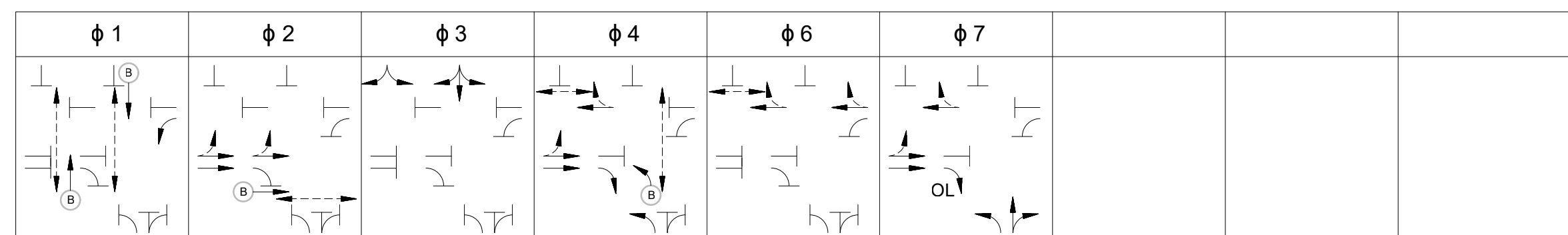
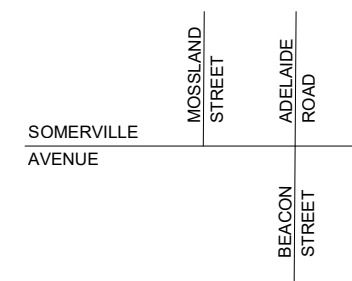
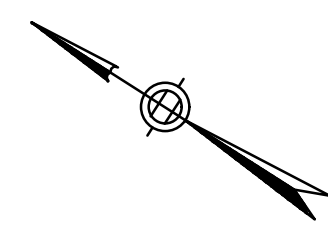


4/27/2026 L:\25065\CURRENT\OUTSHEETS\Somerville_TrafficSignal_Plans.dwg
Last Saved by: HUEBLER
Printed by: Hans Kuebler

7/27/2026
2025065

ROBBIE J. BURGESS
CIVIL
No. 47600
REGISTERED
PROFESSIONAL ENGINEER

APPROX. NORTH



SEQUENCE AND TIMING FOR FULL ACTUATED CONTROL (COORDINATED)

STREET	DIRECTION	HOUSINGS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	FLASH OPER.
SOMERVILLE AVENUE	WB	A,C	R	R	R	R	R	R	R	R	R	G	Y	R	G	Y	R	G	Y	R										FY
SOMERVILLE AVENUE	EB	B,E	R	R	R	G	Y	R	R	R	R	G	Y	R	R	R	G	Y	R										FY	
SOMERVILLE AVENUE	WB	M,P	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R									FY	
SOMERVILLE AVENUE (VEH. AND BIKE)	EB	B2,I	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R										FY	
SOMERVILLE AVENUE (BIKE)	NB	B1	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R										FR	
SOMERVILLE AVENUE	EBR	J,R	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR	RR										FRR
SOMERVILLE AVENUE	WBL	H,L	GL	YL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL	RL										FRL
BEACON STREET	NBL	K,O	RL	RL	RL	RL	RL	RL	RL	RL	GL	YL	RL	RL	RL	RL	GL	YL	RL										FRL	
BEACON STREET	NBR	Q	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R										FR	
BEACON STREET (BIKE)	NBL	B4	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R										FR	
BEACON STREET (BIKE)	SB	B3	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R										FR	
MOSSLAND STREET	SB	D,F	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R										FR	
ADELAIDE ROAD	SB	G,N	R	R	R	R	R	R	R	G	Y	R	R	R	R	R	R	R	R										FR	
SOMERVILLE AVENUE (PEDS)	NB-SB	P1-P2,P5-P6	W/FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW											OUT
SOMERVILLE AVE & MOSSLAND ST (PEDS)	NB-SB/EB-WB	P3-P4,P9-P10	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW											OUT
BEACON STREET (PEDS)	EB-WB	P7-P8	DW	DW	DW	W	F/DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW											OUT

TIMING IN SECONDS

MINIMUM GREEN (INITIAL)	20																													
PASSAGE TIME (VEHICLE)	3																													
MAXIMUM 1	31																													
MAXIMUM 2	23																													
YELLOW CLEARANCE		3				3										3														
RED CLEARANCE				4				3																						
WALK (W)		7				7									7															
PEDESTRIAN CLEARANCE		15													12															
RECALL																														
MEMORY																														

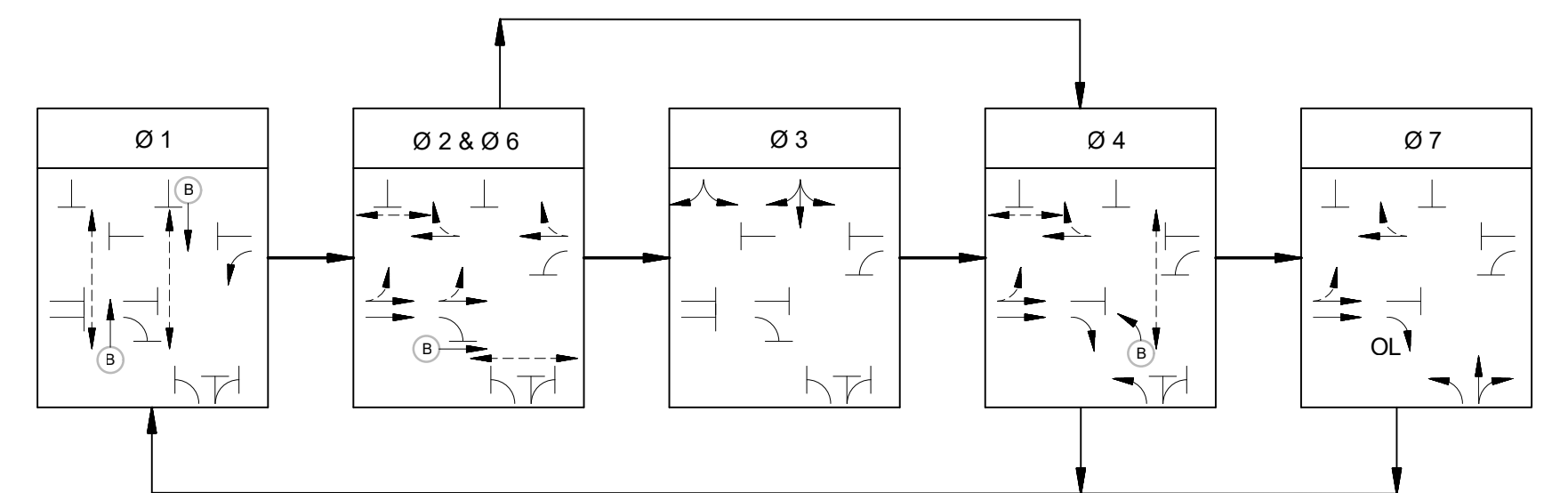
EMERGENCY ONLY

TIME OF DAY DATA

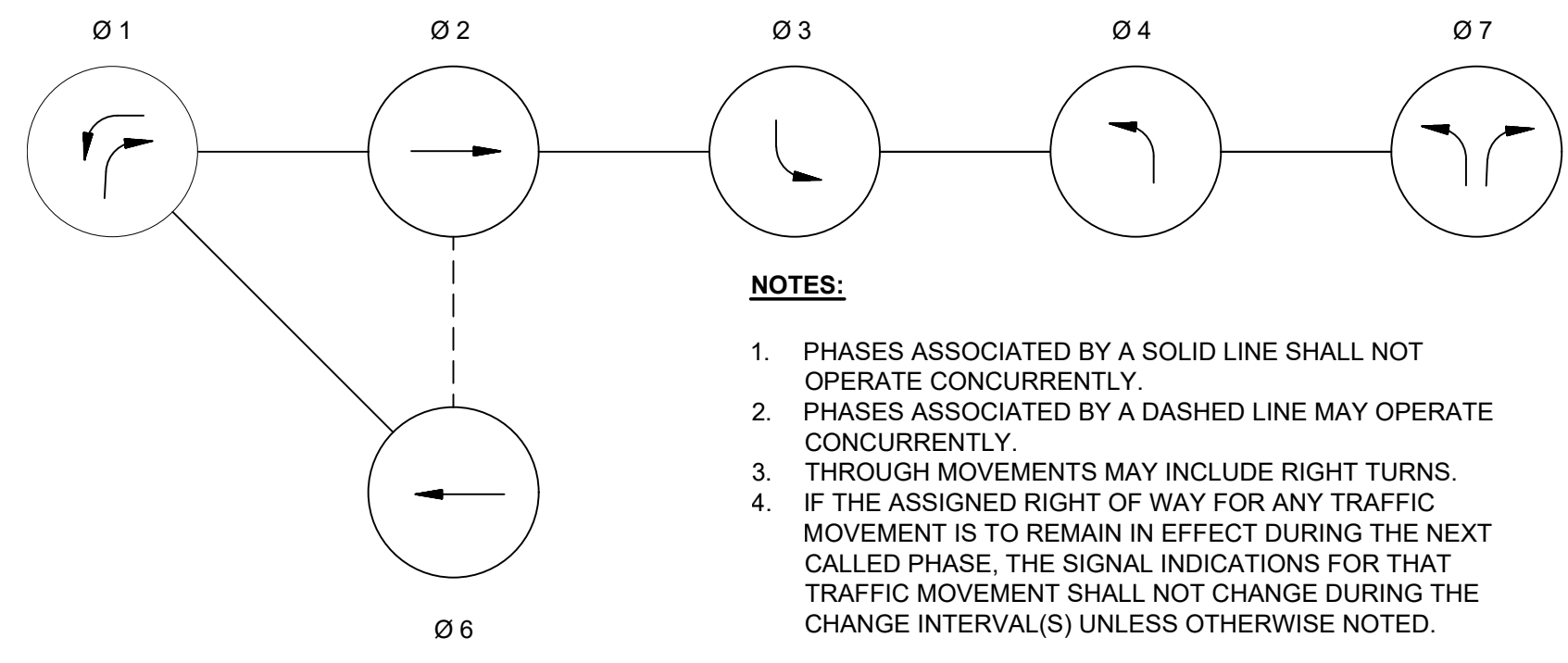
TIMING PLAN	CYCLE LENGTH	REF/OFFSET	SEC.	SEC.	SEC.	SEC.	SEC.	SEC.	SEC.	SEC.	SEC.
7:00 AM - 10:00 AM	120	0	38	36	10	26	36	10			
2:00 PM - 8:00 PM	120	0	30	36	10	26	36	18			

- NOTES:**
- MAXIMUM 1 OPERATES BETWEEN 7:00 A.M. TO 10:00 A.M. MON-FRI.
 - MAXIMUM 2 OPERATES AT ALL OTHER TIMES.
 - PHASE 02+06 SHALL BE THE COORDINATED PHASES.
 - PHASE 02 PED FDW SHALL CLEAR THROUGH YELLOW.

PREFERENTIAL PHASING SEQUENCE



NEMA DUAL RING PHASING NOTES:



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

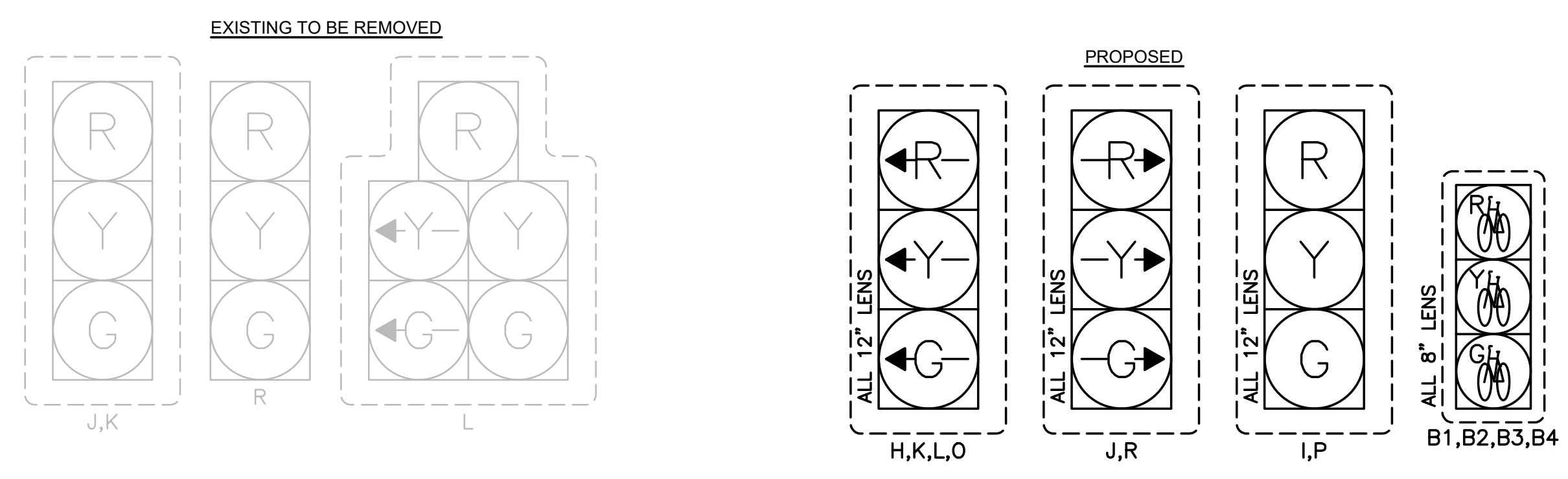
EMERGENCY VEHICLE PREEMPTION OPERATION:

- EMERGENCY VEHICLE PREEMPTION CAPABILITIES SHALL BE ACCESSIBLE REMOTELY THROUGH FIELD MONITORING UNIT CONNECTIVITY. EMERGENCY VEHICLE PREEMPTION CALLS RECEIVED REMOTELY SHALL BE SERVED FIRST, THEN ANY CALLS RECEIVED BY OPTICAL DETECTORS WILL BE SERVED SECONDARY.
- EMERGENCY VEHICLE PREEMPTION SHALL BE ACTUATED BY AN OPTICAL SIGNAL FROM AN OPTICAL EMITTER MOUNTED ON AN EMERGENCY VEHICLE AND RECEIVED BY AN OPTICAL DETECTOR LOCATED AT INTERSECTION. A SEPARATE RECEIVING DETECTOR IS REQUIRED FOR EACH DETECTED APPROACH.
- PREEMPTION SIGNALS FROM MULTIPLE APPROACHES SHALL BE SERVICED ON A FIRST DETECTED FIRST SERVED BASIS.
- IN RESPONSE TO A PREEMPTION SIGNAL RECEIVED AT AN INTERSECTION BY AN OPTICAL DETECTOR, THE CONTROLLER SHALL TIME THE CLEARANCE INTERVALS OF THE ACTIVE PHASE (IF DIFFERENT THAT TO BE SERVICED) AND ADVANCE TO AND/OR HOLD IN EMERGENCY VEHICLE PREEMPTION PHASE UNTIL PREEMPTION SIGNAL CEASES. THE CONTROLLER SHALL THEN TIME CLEARANCES AND SIMILARLY SERVICE OTHER EMERGENCY VEHICLE PREEMPTION SEQUENCES IN THE ORDER RECEIVED (IF RECEIVED) OTHERWISE, RESUME NORMAL PREFERENTIAL PHASE SEQUENCE.
- PREEMPTION MINIMUM GREENS SHALL BE SIX SECONDS.
- ACTUAL TIMING FOR PREEMPTION SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FIRE DEPARTMENT AND SHALL BE APPROVED BY CITY OF SOMERVILLE ENGINEERING DIVISION PRIOR TO OPERATION.

FIRE PREEMPTION SCHEDULE

CHANNEL	APPROACH	PREEMPTION PHASE	NEXT PHASE CALLED
A	EASTBOUND	2 & 6	4
C	WESTBOUND	2 & 6	4
D	NORTHBOUND	7	1
B & C	SOUTHBOUND	3	4

SIGNAL IDENTIFICATION



- SIGNAL INDICATION NOTES:**
- ALL VEHICULAR SIGNALS SHALL HAVE CUT AWAY VISORS.
 - ALL VEHICULAR SIGNALS SHALL HAVE 12" LED LENS.
 - ALL BICYCLE SIGNALS SHALL HAVE 8" LED LENS.
 - ALL VEHICULAR & BICYCLE SIGNALS SHALL HAVE 5" LOUVERED BACK PLATES WITH 3" RETROREFLECTIVE TAPE.

**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	28	32

PROJECT FILE NO. N/A

**TRAFFIC SIGNAL DATA
SOMERVILLE AVE AT MOSSLAND & BEACON ST**

MAJOR ITEMS REQUIRED		
PAY ITEM	QUANTITY	ITEM
816.04	1	ADVANCED TRAFFIC CONTROLLER (ATC) AND M-ATC CABINET ON NEW FDN
	1	10' TRAFFIC SIGNAL POST, BASE AND PEDESTAL ON NEW FDN
	4	12" - 3 SECTION (RL,YL,GL) L.E.D. VEHICLE SIGNAL INDICATION WITH BACKPLATE
	2	12" - 3 SECTION (RR,YR,GR) L.E.D. VEHICLE SIGNAL INDICATION WITH BACKPLATE
	2	12" - 3 SECTION (R,Y,G) L.E.D. VEHICLE SIGNAL INDICATION WITH BACKPLATE
	4	8" - 3 SECTION (R,Y,G BICYCLE) L.E.D. BICYCLE SIGNAL INDICATION WITH BACKPLATE
	3	APS PUSH BUTTON WITH R10-3E(L/R) SIGN AND SADDLE
	2	360 DEGREE DETECTION CAMERA
	2	APPROACH DETECTION CAMERA
	1	DETECTION CORE
804.03	1	REPROGRAM CONTROLLER
	1	INTERNET CONNECTED FIELD MONITORING UNIT
	1	GPS COORDINATION UNIT FOR CONTROLLER CABINET
804.03	40 FT	3" ELECTRICAL CONDUIT

Plus all necessary duct, cable, labor, miscellaneous material and equipment to complete the installation.

VIDEO DETECTION DATA

DETECTOR NUMBER	NUMBER OF SEGMENTS	DETECTION ZONE SIZE	NUM. OF TURNS	Ø CALLED	Ø EXT.	MODE A=PULSE B=PRES.	DELAY TIME	EXT. TIME
1	-	11' X 30'	-	Ø3	Ø3	B=PRES	0	0
2	-	6' X 30'	-	Ø2	Ø2	B=PRES	0	0
3	-	6' X 30'	-	Ø2	Ø2	B=PRES	0	0
3B	-	9' X 16'	-	Ø2	Ø2	B=PRES	0	0
4	-	14' X 30'	-	Ø6	Ø6	B=PRES	0	0
5	-	6' X 30'	-	Ø3	Ø3	B=PRES	0	0
6	-	6' X 30'	-	Ø2	Ø2	B=PRES	0	0
6B	-	16' X 8'	-	Ø2	Ø2	B=PRES	0	0
7	-	6' X 30'	-	Ø4	Ø4	B=PRES	0	0
8	-	6' X 30'	-	Ø4	Ø4	B=PRES	0	0
9	-	6' X 30'	-	Ø7	Ø7	B=PRES	0	0
10	-	18' X 40'	-	Ø6	Ø6	B=PRES	0	0
11	-	6' X 50'	-	Ø1	Ø1	B=PRES	0	0
12B	-	12' X 8'	-	Ø1	Ø1	B=PRES	0	0
13B	-	6' X 8'	-	Ø1	Ø1	B=PRES	10 SEC.	0
14B	-	6' X 8'	-	Ø4	Ø4	B=PRES	10 SEC.	0
14C	-	6' X 8'	-	Ø4	-	B=PRES	10 SEC.	0

T1 & T2 CONTRACTOR OR CITY OF SOMERVILLE TO CONFIGURE ZONES AND USER PATHS AS NEEDED FOR TURNING MOVEMENT COUNTS

SUGGESTED WORK ZONE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS **		
	A	B	C
LOCAL OR LOW VOLUME ROADWAYS*	350	350	350
MOST OTHER ROADWAYS*	500	500	500
FREEWAYS AND EXPRESSWAYS*	1,000	1,500	2,640

* DISTANCES ARE SHOWN IN FEET. THE COLUMN HEADINGS A, B, AND C ARE THE DIMENSIONS SHOWN IN THE DETAIL/ TYPICAL SETUP FIGURES. THE A DIMENSION IS THE DISTANCE FROM THE TRANSITION OR POINT OF RESTRICTION TO THE FIRST SIGN. THE B DIMENSION IS THE DISTANCE BETWEEN THE FIRST AND SECOND SIGNS. THE C DIMENSION IS THE DISTANCE BETWEEN THE SECOND AND THIRD SIGNS. (THE "THIRD" SIGN IS THE FIRST ONE TYPICALLY ENCOUNTERED BY A DRIVER APPROACHING A TEMPORARY TRAFFIC CONTROL (TTC) ZONE.)

THE "THIRD" SIGN ABOVE IS TYPICALLY REFERRED TO AS AN "ADVANCE WARNING" SIGN ON THE TTCP SETUPS. THESE ADVANCE WARNING SIGNS ARE LOCATED PRIOR TO THE PROJECT LIMITS ON ALL APPROACHES (i.e. THE W20-1 SERIES (ROAD WORK XX FT) SIGNS), AND USUALLY REMAIN FOR THE DURATION OF THE PROJECT. ADDITIONAL SIGNS (i.e. "RIGHT LANE CLOSED 1 MILE" AND "LEFT LANE CLOSED 1 MILE") HAVE BEEN SHOWN IN SOME FIGURES AS EXAMPLES OF REINFORCEMENT SIGN PLACEMENT BUT ARE USED IN RARE OCCASIONS.

THE FIRST AND SECOND WARNING SIGNS ABOVE ARE REFERRED TO AS THE OPERATIONAL (DAY-TO-DAY) WORK ZONE SIGNS AND MAY BE MOVED DEPENDING ON WHERE THE SPECIFIC ROADWAY WORK FOR THAT DAY IS LOCATED.

MA-R2-10a SIGNS SHALL BE PLACED BETWEEN THE SECOND AND THIRD SIGNS AS DESCRIBED ABOVE.

MA-R2-10a, MA-R2-10e, AND W20-1 SERIES SIGNS ARE TO BE INCLUDED ON ALL DETAILS/TYPICAL SETUPS.

Based on: Table 6C-1 MUTCD LATEST EDITION

CONVENTIONAL ROADWAY- A STREET OR HIGHWAY OTHER THAN A LOW-VOLUME ROAD, EXPRESSWAY, OR FREEWAY.

EXPRESSWAY- A DIVIDED HIGHWAY WITH PARTIAL CONTROL OF ACCESS.

FREEWAY- A DIVIDED HIGHWAY WITH FULL CONTROL OF ACCESS.

LOW-VOLUME ROAD- A FACILITY LYING OUTSIDE OF BUILT-UP AREAS OF CITIES, TOWNS, AND COMMUNITIES, AND IT SHALL HAVE A TRAFFIC VOLUME OF LESS THAN 400 AADT. IT SHALL NOT BE A FREEWAY, EXPRESSWAY, INTERCHANGE RAMP, FREEWAY SERVICE ROAD OR A ROAD ON A DESIGNATED STATE HIGHWAY SYSTEM.

Source: MUTCD LATEST EDITION

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH (L)*
MERGING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FT MIN. 100 FT MAX.
DOWNSTREAM TAPER	50 FT MIN. 100 FT MAX. PER LANE

Source: Table 6C-3 MUTCD LATEST EDITION

FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S)	TAPER LENGTH (L) FEET
40 MPH OR LESS	$L = \frac{WS}{60}$
45 MPH OR MORE	$L = WS$

*WHERE: L = TAPER LENGTH IN FEET
 W = WIDTH OF OFFSET IN FEET
 S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH

NOTES:

- ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
- ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD 2023 EDITION.
- TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
- THE FIRST TEN PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING LIGHTS.
- THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
- DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
- ANY CONSTRUCTION ACTIVITIES THAT REDUCE ROADWAY CAPACITIES SHALL AVOID TRAFFIC PEAK HOURS (6-9AM AND 3-6PM)
- TEMPORARY FACILITIES, INCLUDING BUT NOT LIMITED TO, TEMPORARY PEDESTRIAN PASSAGEWAYS AROUND A CONSTRUCTION SITE, SHALL COMPLY WITH 521 CMR.
- VEHICLE DETOURS ARE NOT ANTICIPATED. SIGNAL INSTALLATION IS ANTICIPATED WITH LANE CLOSURES AND SHORT DURATIONS OF STOPPED TRAFFIC.
- AT NIGHT, FLAGGER STATIONS SHALL BE ILLUMINATED.

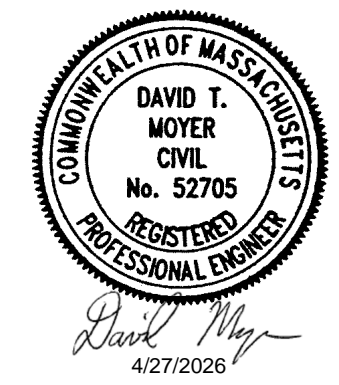
TEMPORARY CHANGEABLE MESSAGE SIGN (PCMS) NOTE – MOSSLAND STREET CLOSURE:

- PCMS LOCATION: PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PLACED IN ADVANCE OF MOSSLAND STREET ON BOTH ELM STREET AND CEDAR STREET. SIGNS SHALL BE LOCATED 250–500 FEET UPSTREAM OF THE MOSSLAND STREET INTERSECTION, ON THE RIGHT-HAND SIDE OF TRAVEL LANES OR IN THE PARKING LANE/SHOULDER AS AVAILABLE, ENSURING CLEAR VISIBILITY TO APPROACHING MOTORISTS AND NO OBSTRUCTION OF SIDEWALKS OR BICYCLE LANES. EXACT PLACEMENT SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- PCMS MESSAGING:
 - ADVANCE WARNING (PRIOR TO PERMANENT CLOSURE):
 - MESSAGE 1:
MOSSLAND ST
CLOSED ON
[MM/DD]
 - MESSAGE 2:
MOSSLAND ST
CLOSED TO CARS
PERMANENTLY
 - DURING/AFTER PERMANENT CLOSURE:
 - MOSSLAND ST
CLOSED TO CARS
PERMANENTLY
- DURATION AND MAINTENANCE: PCMS SHALL BE INSTALLED AT LEAST 14 DAYS PRIOR TO THE PERMANENT CLOSURE AND REMAIN IN PLACE FOR AT LEAST 7 DAYS FOLLOWING THE CLOSURE OR AS DIRECTED BY THE ENGINEER. MESSAGES SHALL BE UPDATED AS NEEDED TO CLEARLY COMMUNICATE THE CLOSURE STATUS TO MOTORISTS.

SOMERVILLE
ELM-BEACON CONNECTOR

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	29	32
PROJECT FILE NO.		N/A	

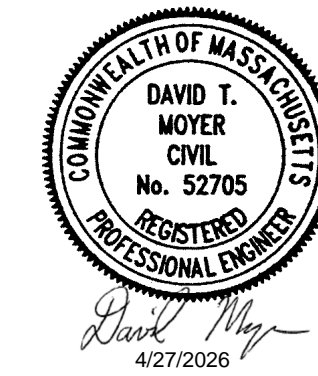
TEMPORARY TRAFFIC CONTROL
PLANS



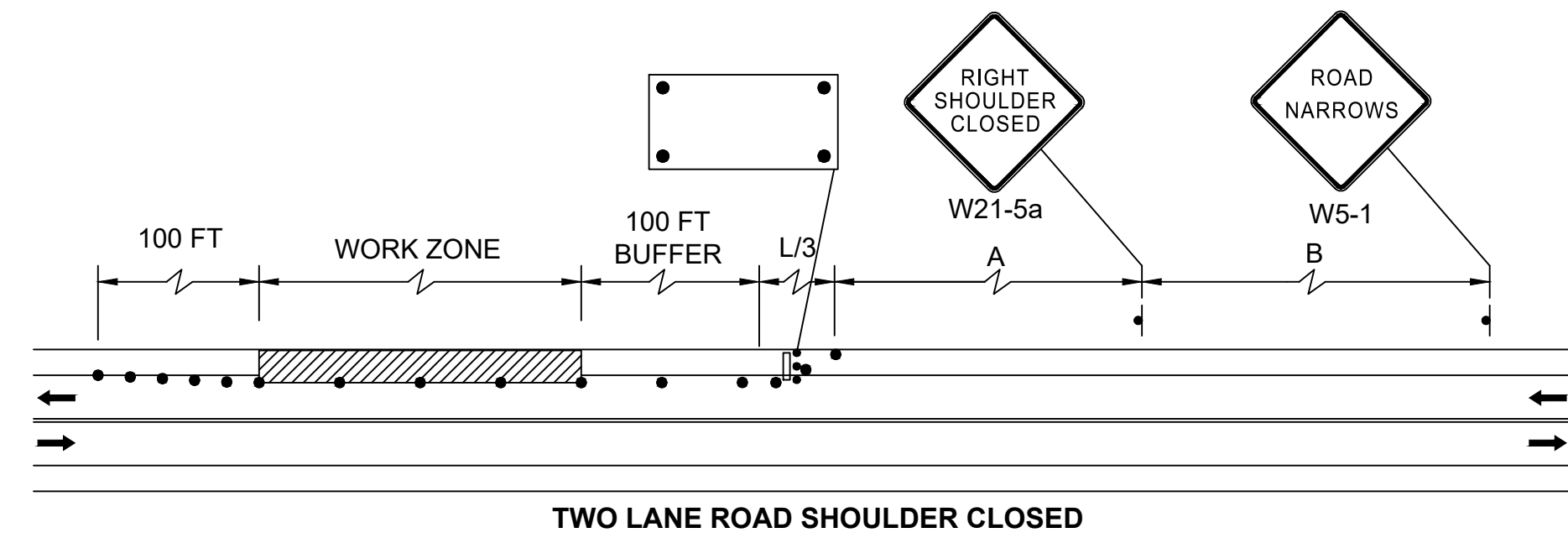
**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	30	32
PROJECT FILE NO.		N/A	

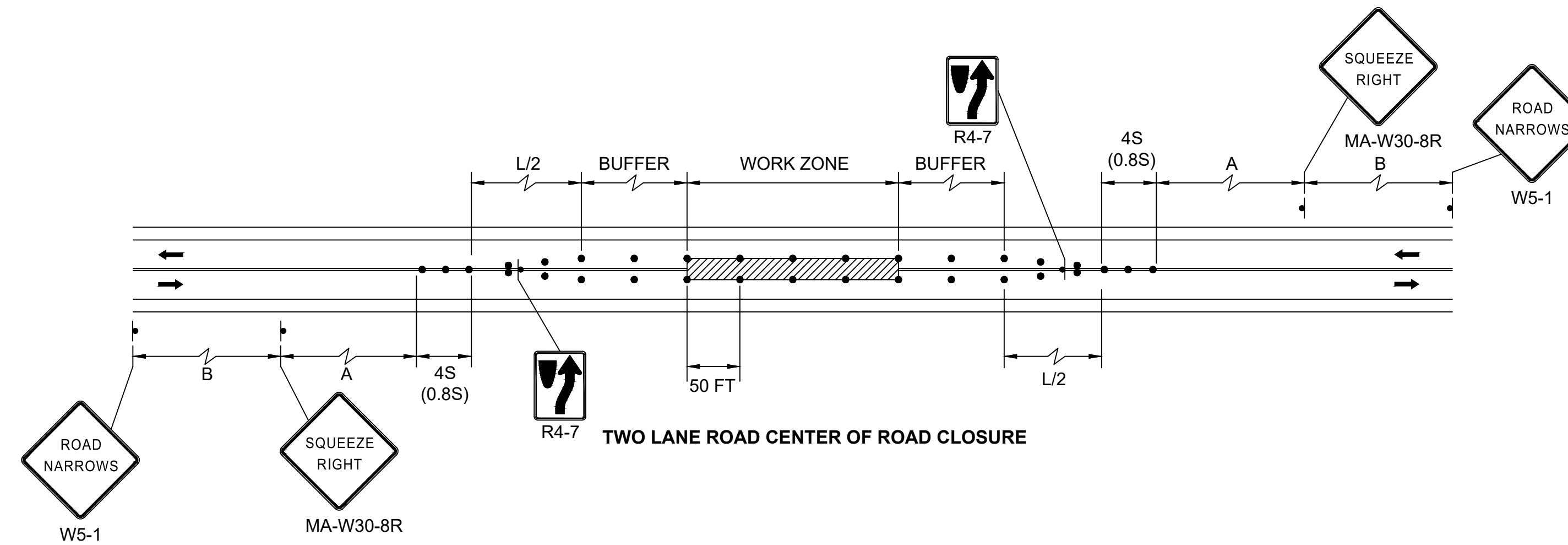
**TEMPORARY TRAFFIC CONTROL
PLANS**



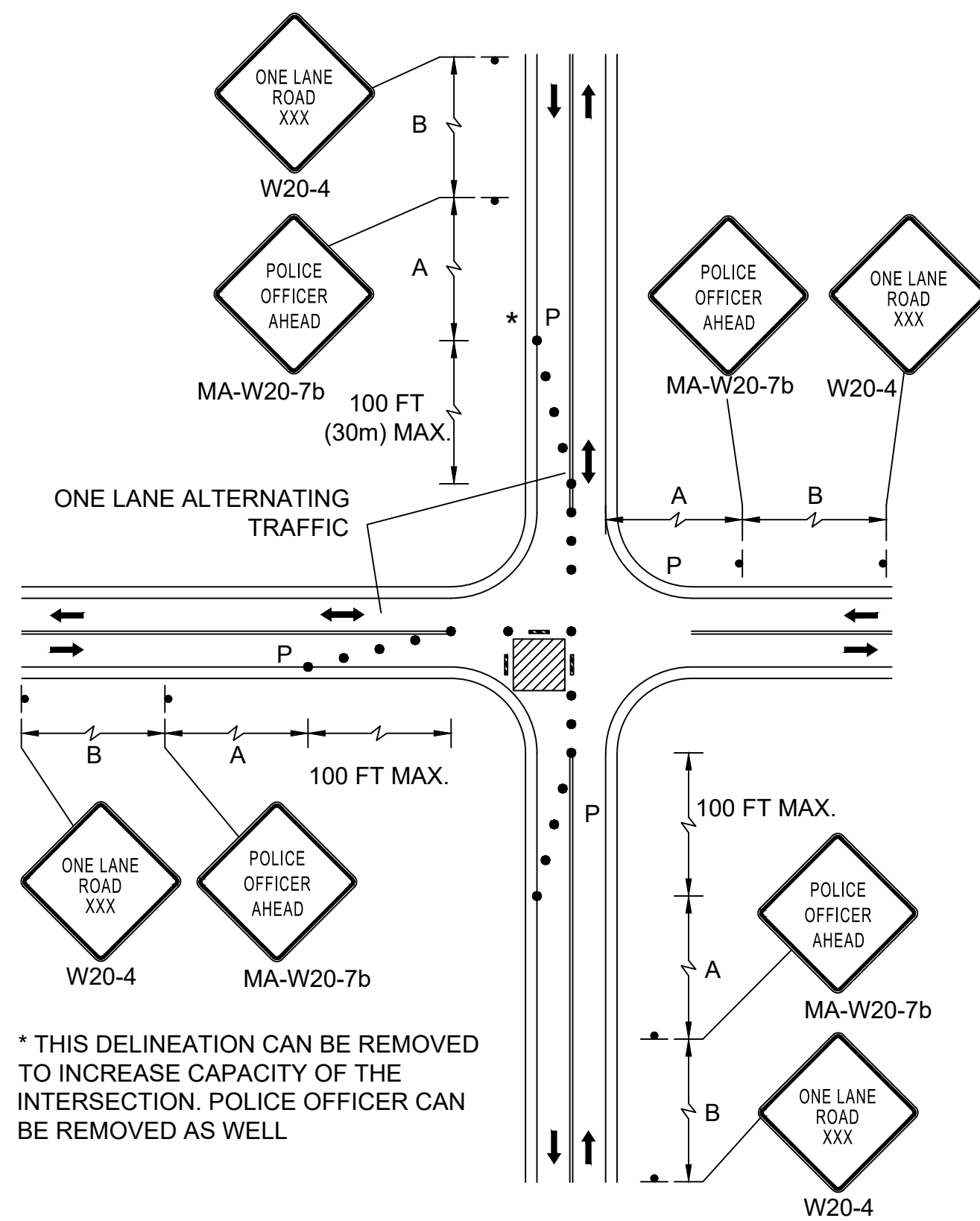
ELMSTREET_SHEET_29-30_TMP.DWG Plotted on 21-Apr-2026 10:11 PM



TWO LANE ROAD SHOULDER CLOSED

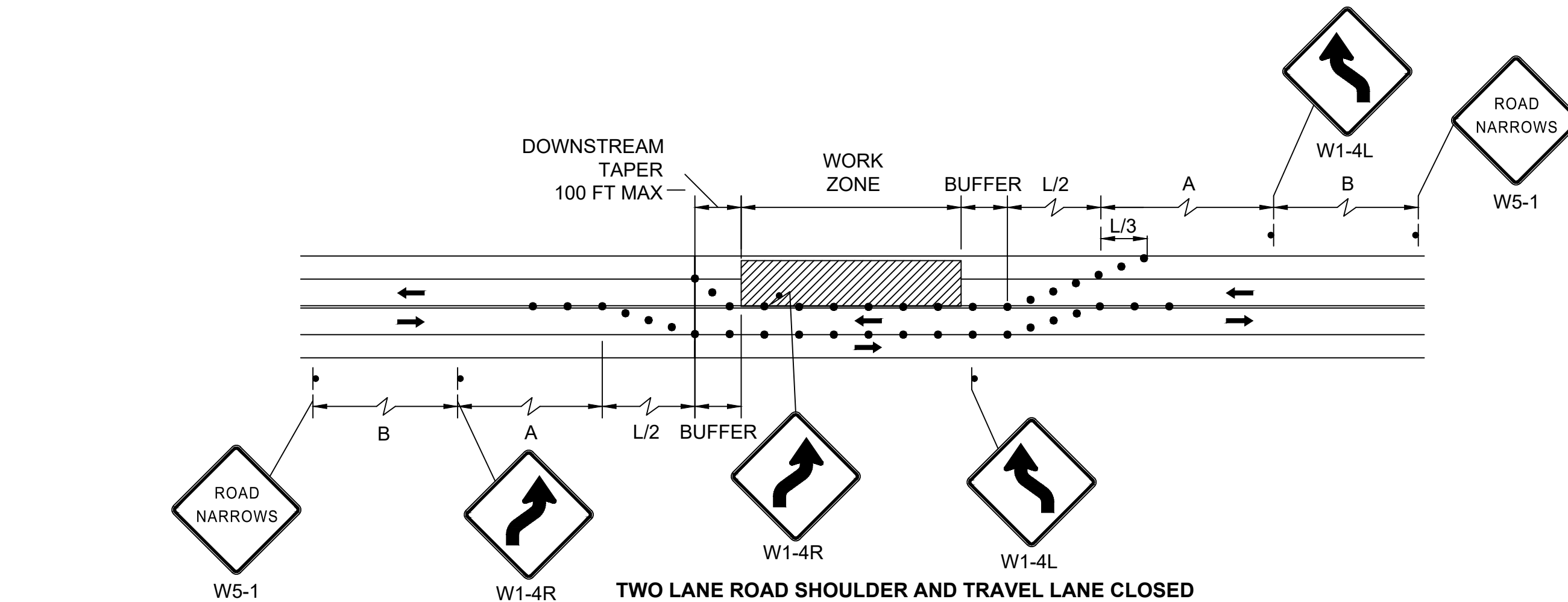


TWO LANE ROAD CENTER OF ROAD CLOSURE

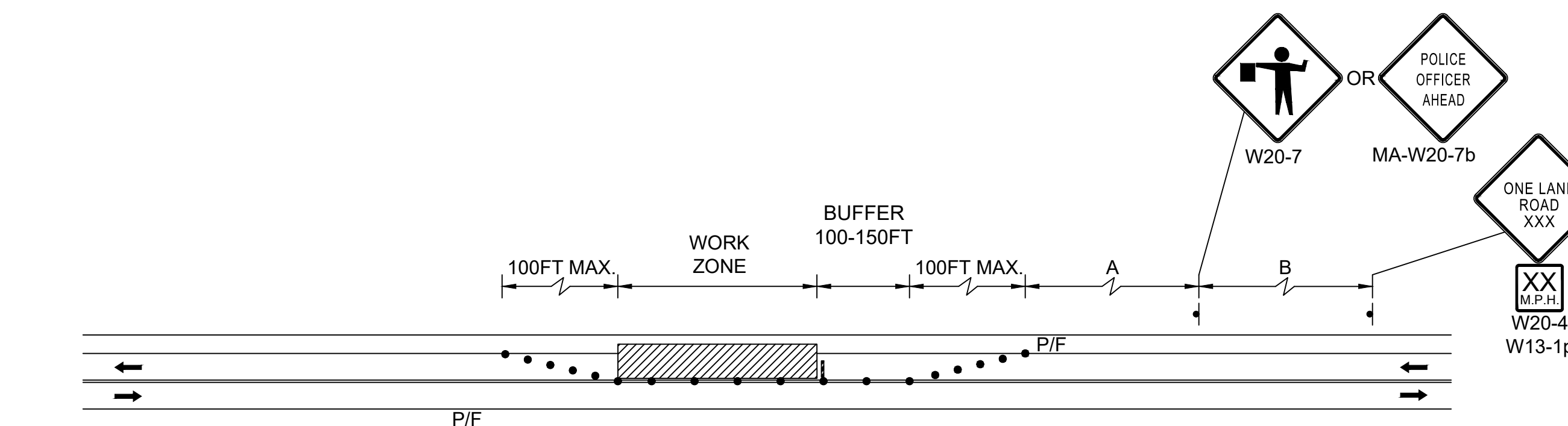


**SINGLE LANE APPROACH
ONE QUADRANT CLOSURE**

* THIS DELINEATION CAN BE REMOVED TO INCREASE CAPACITY OF THE INTERSECTION. POLICE OFFICER CAN BE REMOVED AS WELL



TWO LANE ROAD SHOULDER AND TRAVEL LANE CLOSED



TWO LANE ROAD ONE LANE ALTERNATING TRAFFIC

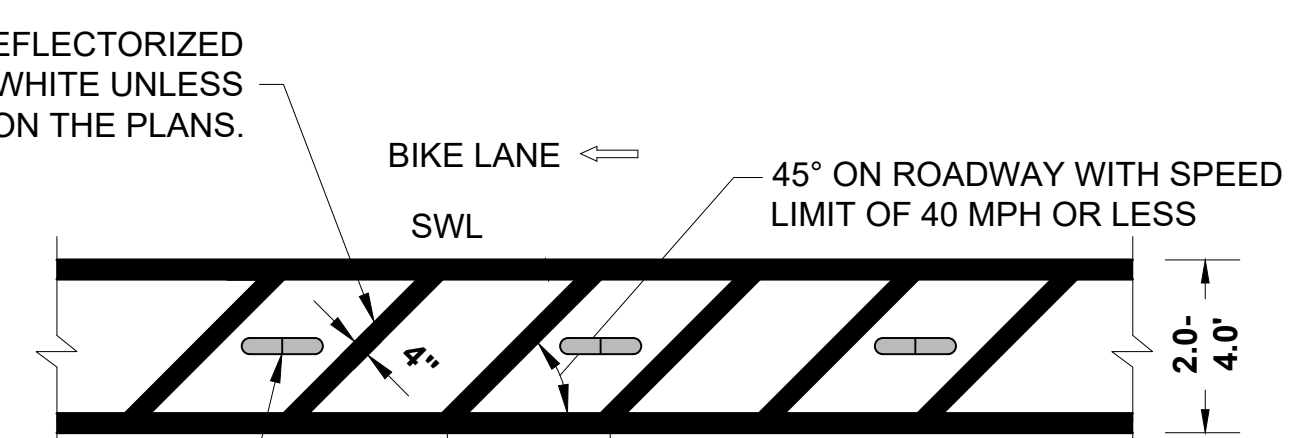
LEGEND:

- REFLECTORIZED PLASTIC DRUM OR 36" CONE
- ▨ WORK ZONE
- ☐ WORK VEHICLE
- P/F POLICE/FLAGGER DETAIL
- ➔ DIRECTION OF TRAFFIC
- ☐ TRUCK MOUNTED ATTENUATOR
- ▨ TYPE III BARRICADE
- ☐ IMPACT ATTENUATOR
- ☐ CHANGEABLE MESSAGE SIGN
- ☐ MEDIAN BARRIER
- ☐ ARROW BOARD
- ☐ MEDIAN BARRIER WITH WARNING LIGHTS
- TRAFFIC OR PEDESTRIAN SIGNAL
- SIGN

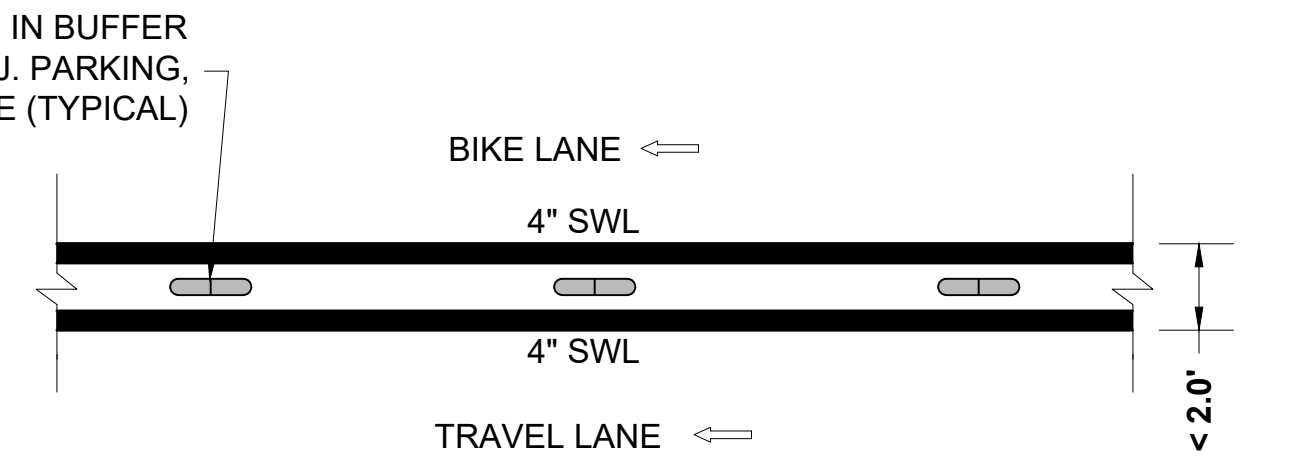
**SOMERVILLE
ELM-BEACON CONNECTOR**

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	31	32
PROJECT FILE NO.		N/A	

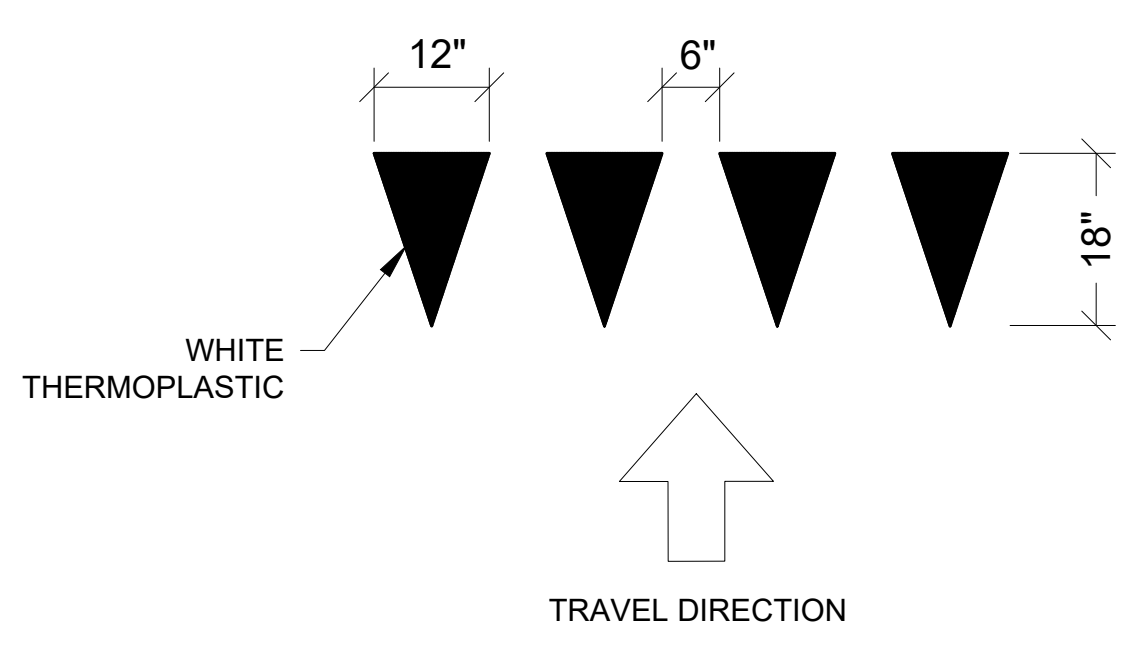
CONSTRUCTION DETAILS



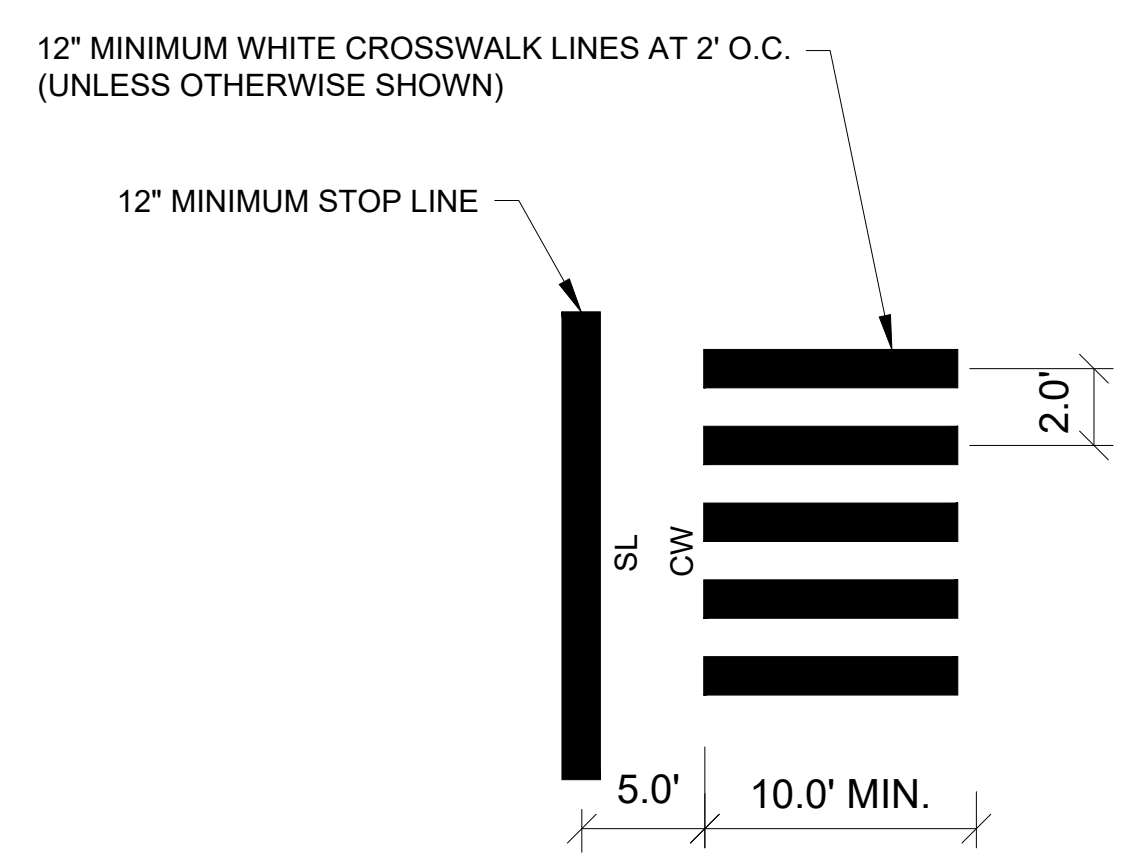
BICYCLE LANE BUFFER CROSS-HATCHING (2.0' - 4.0')
NOT TO SCALE



BICYCLE LANE BUFFER CROSS-HATCHING (< 2.0')
NOT TO SCALE



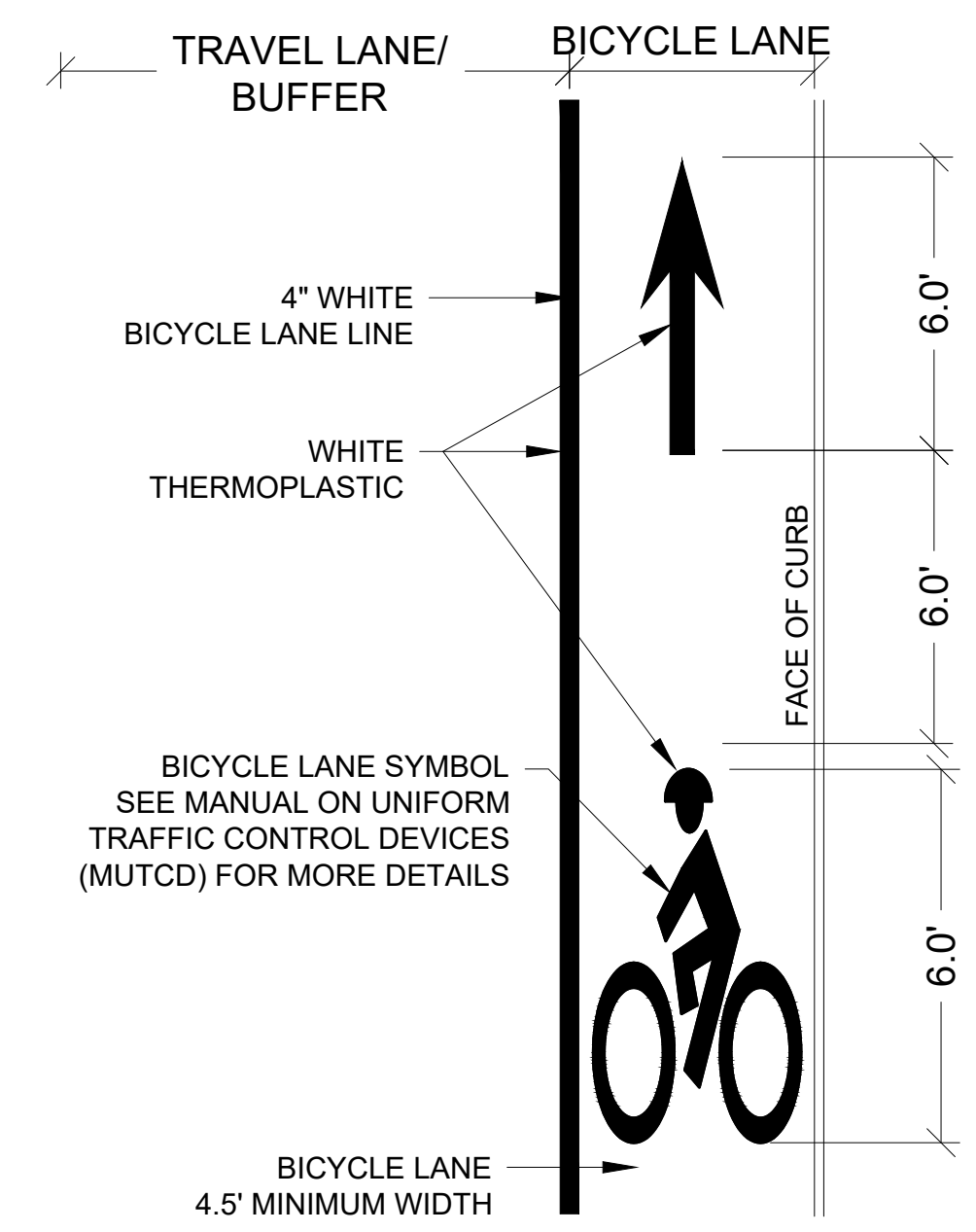
BIKE LANE YIELD MARKINGS
NOT TO SCALE



TYPICAL CROSSWALK MARKING AND STOP LINE PLACEMENT
NOT TO SCALE

NOTES:

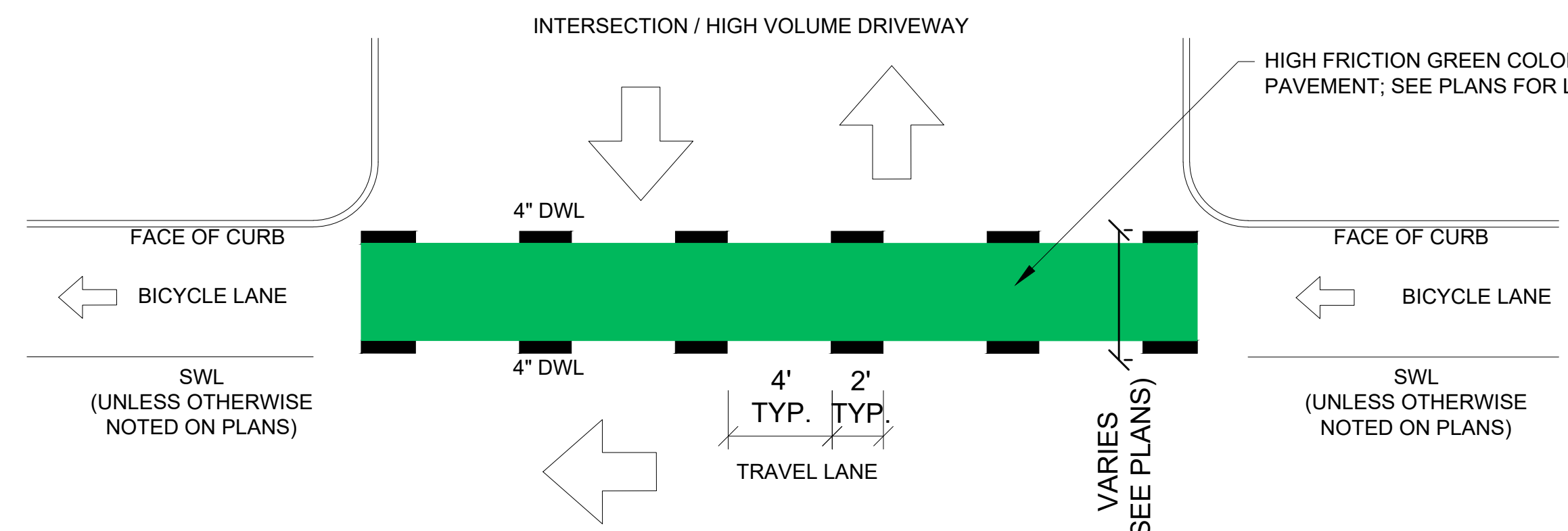
- ALL 12" THERMOPLASTIC LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO - 6" LINES) WILL BE ACCEPTED.
- LAYOUT OF ANY NEW CROSSWALKS SHALL BE APPROVED BY THE SOMERVILLE MOBILITY DIVISION PRIOR TO APPLICATION OF THERMOPLASTIC.
- ALL CROSSWALKS INSTALLED SHALL CONFORM TO THE RELEVANT PROVISIONS OF THE MASSACHUSETTS HIGHWAY DEPARTMENT "STANDARD SPECIFICATION FOR HIGHWAY AND BRIDGES" DATED 1988, SECTION 860 FOR REFLECTORIZED LINES (THERMO-PLASTIC) & MATERIAL M7.01.20, LATEST REVISIONS.
- WHEN RE-STRIPING EXISTING CROSSWALKS MATCH THE DIMENSIONS AND LINE WIDTHS OF THE EXISTING CROSSWALK (UNLESS OTHERWISE DIRECTED ON THE PLANS).



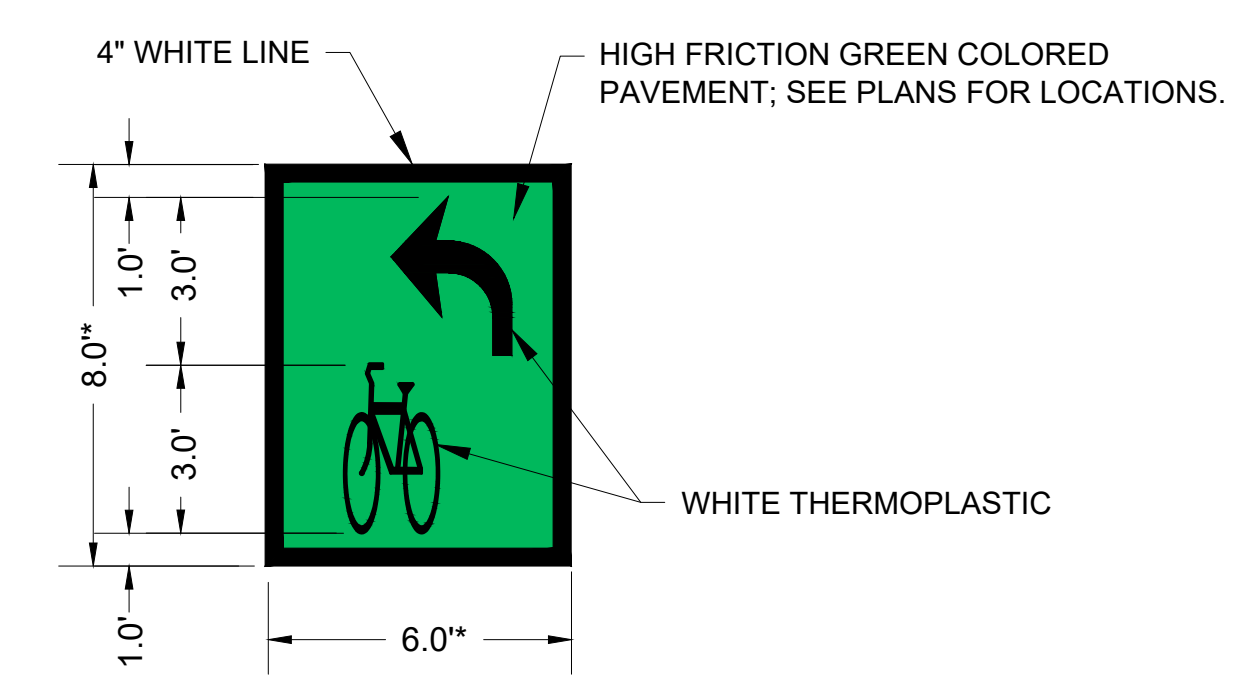
TYPICAL BICYCLE LANE STRIPING ADJACENT TO CURB
NOT TO SCALE

CROSSBIKE DETAIL NOTES:

- HIGH FRICTION GREEN COLORED PAVEMENT IS USED FOR HIGH TRAFFIC AREAS WHERE PEOPLE DRIVING FREQUENTLY CROSS THE BICYCLE LANE. SEE PLANS FOR LOCATIONS.
- INSTALL HIGH FRICTION GREEN COLORED PAVEMENT IN BETWEEN 2' LONG DOTTED WHITE LANE LINES AS SHOWN ON PLANS.
- TRAVEL AND BICYCLE LANE WIDTHS ARE AS SHOWN ON PLANS.

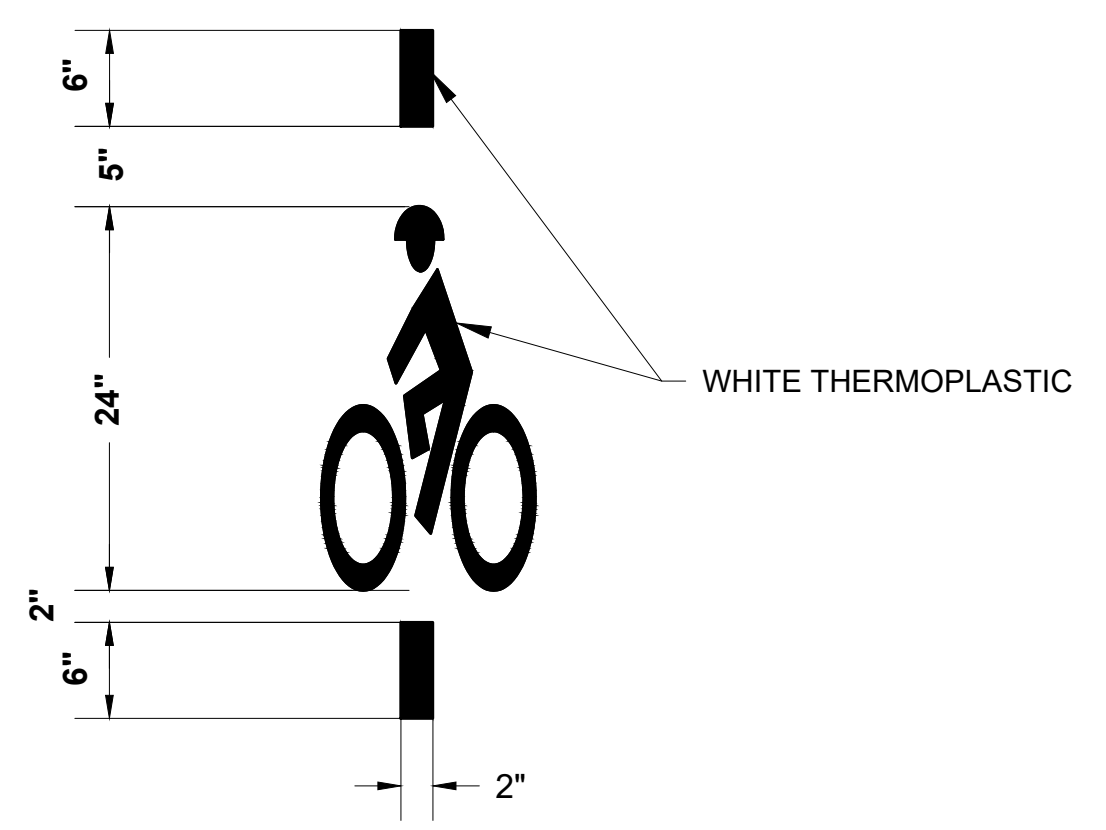


CROSSBIKE DETAIL
NOT TO SCALE



*UNLESS OTHERWISE SPECIFIED ON THE PLANS

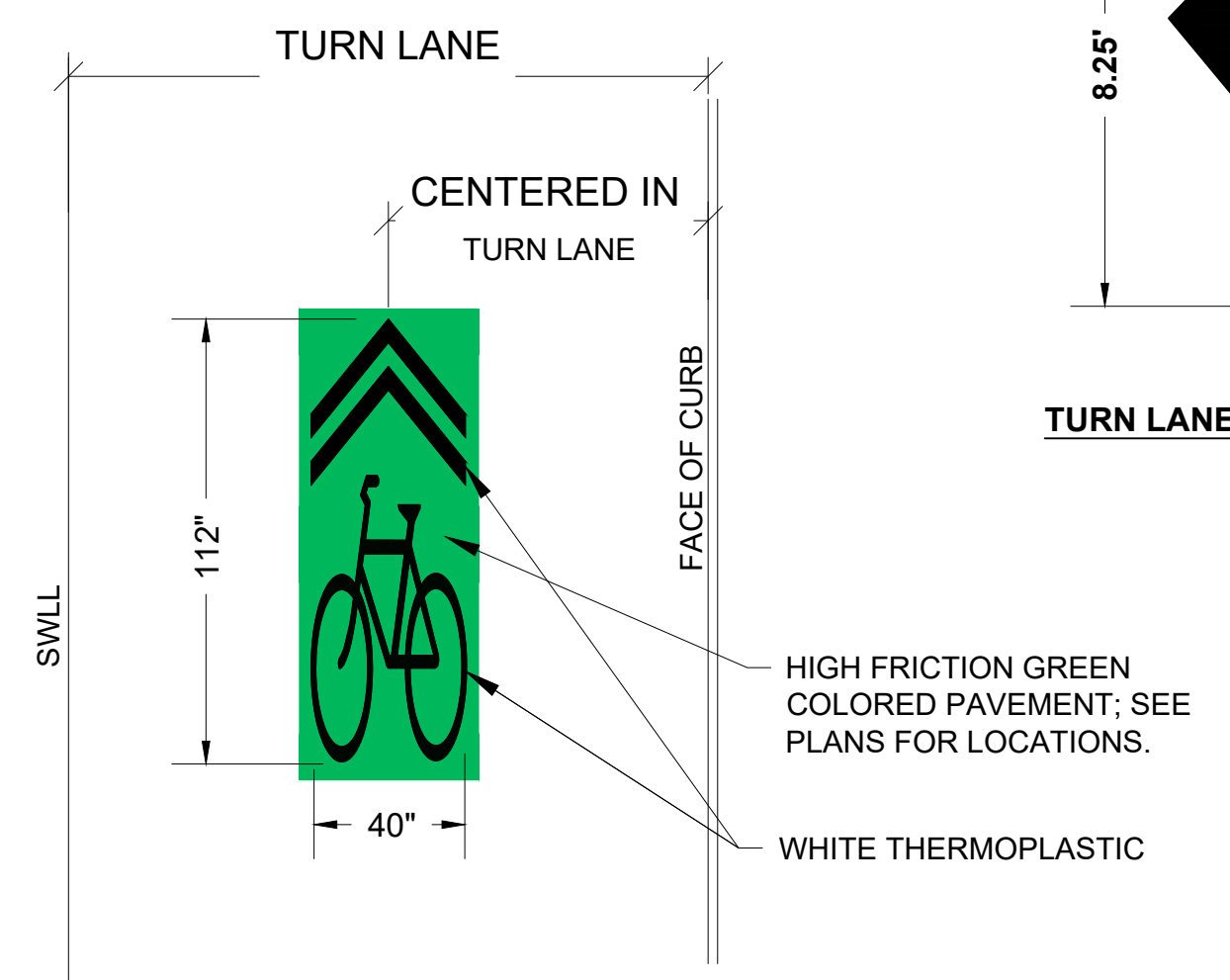
BICYCLE TURN QUEUE BOX DETAIL
NOT TO SCALE



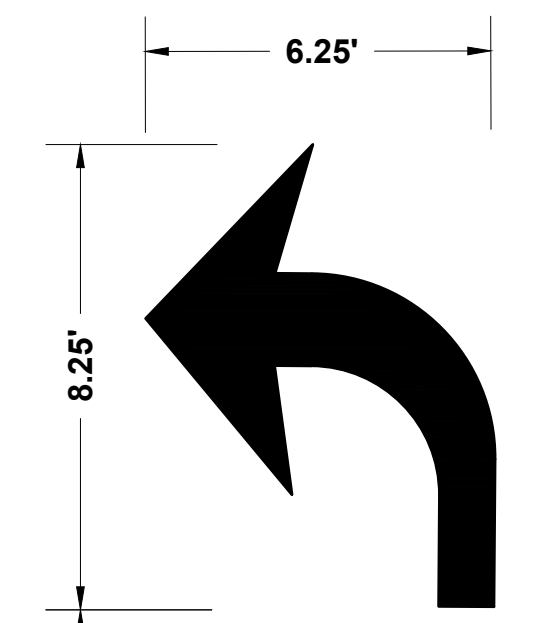
NOTE:

- BICYCLE DETECTOR PAVEMENT MARKINGS SHALL BE CENTERED IN THE BICYCLE DETECTOR. TRAFFIC SIGNAL PLANS SPECIFY BICYCLE DETECTOR LOCATION.

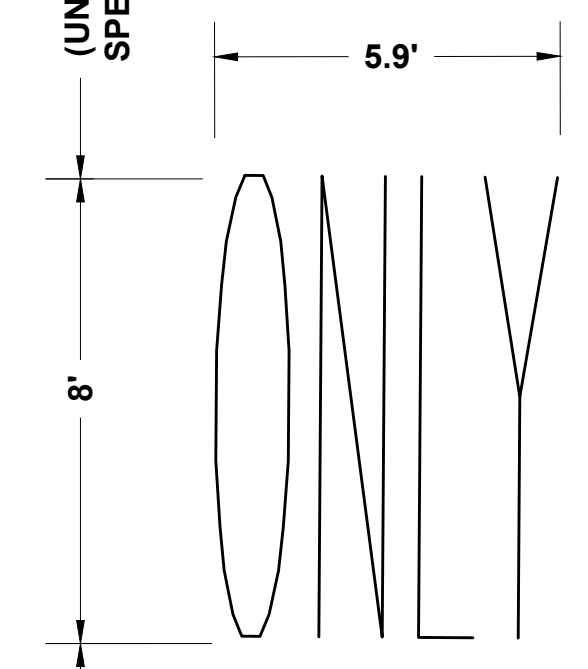
BICYCLE DETECTOR PAVEMENT MARKING DETAIL
NOT TO SCALE



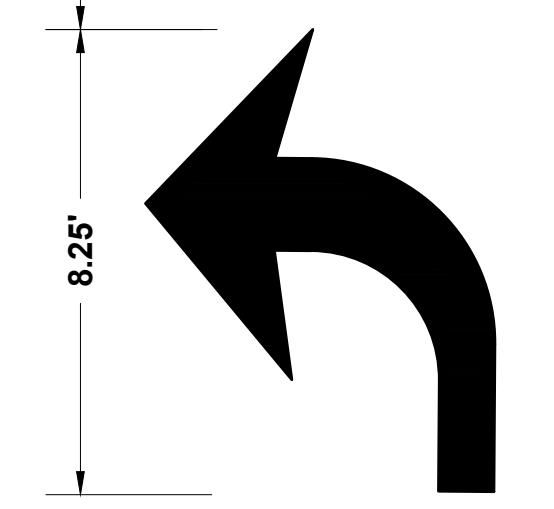
CENTERED SHARED LANE MARKING SYMBOL PLACEMENT IN LANE
NOT TO SCALE



32' MIN (UNLESS OTHERWISE SPECIFIED ON PLANS)



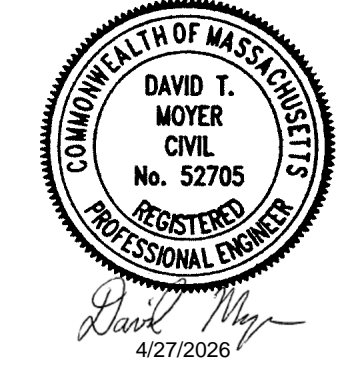
32' MIN (UNLESS OTHERWISE SPECIFIED ON PLANS)



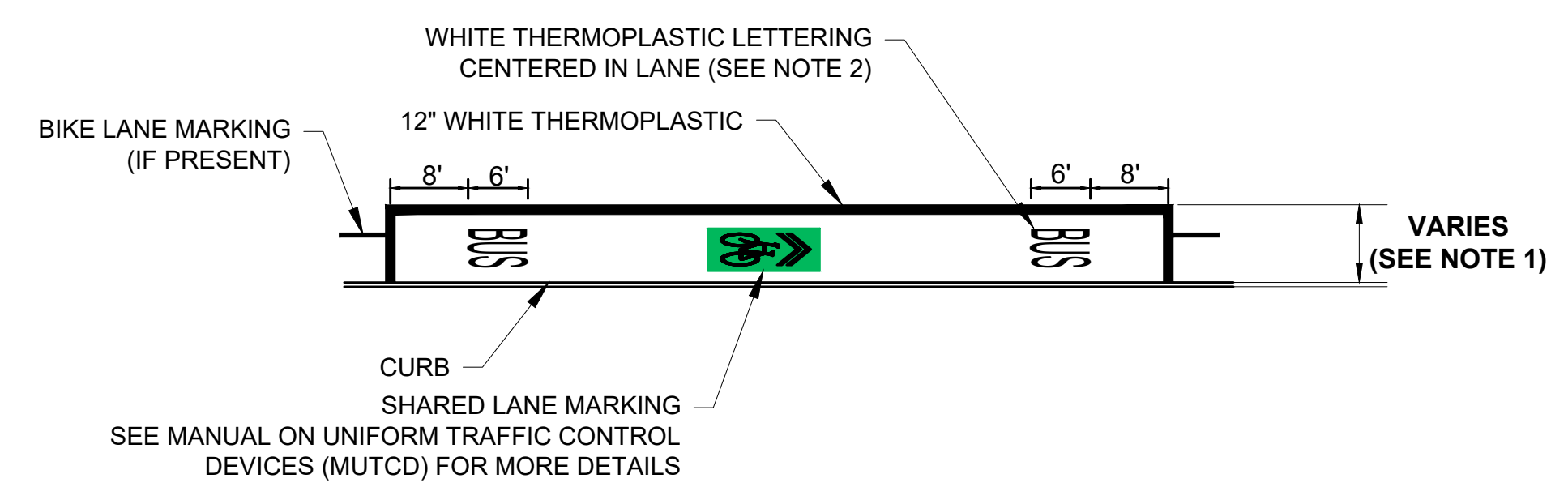
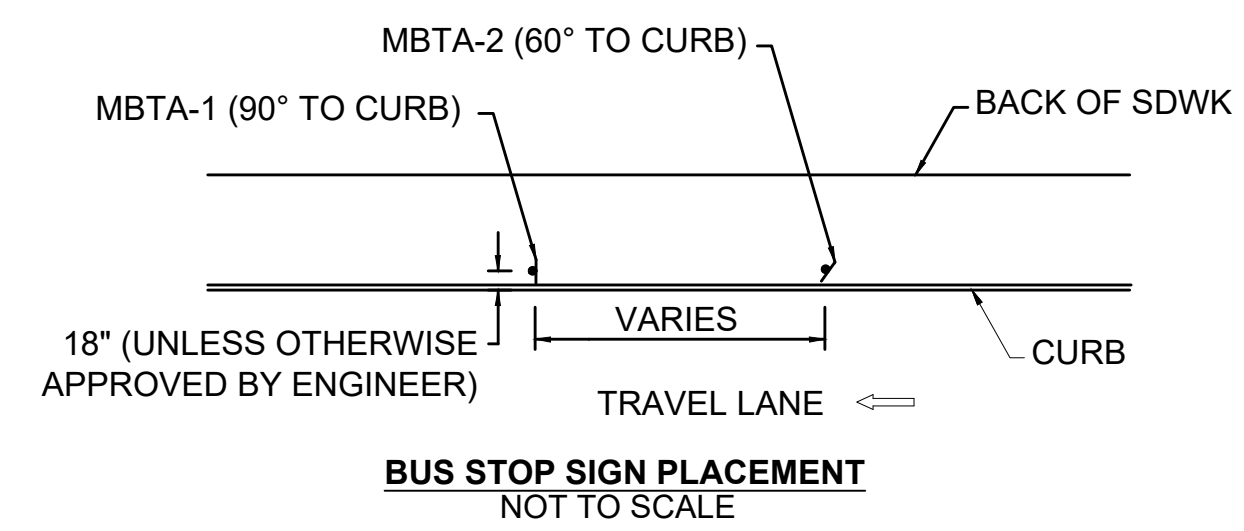
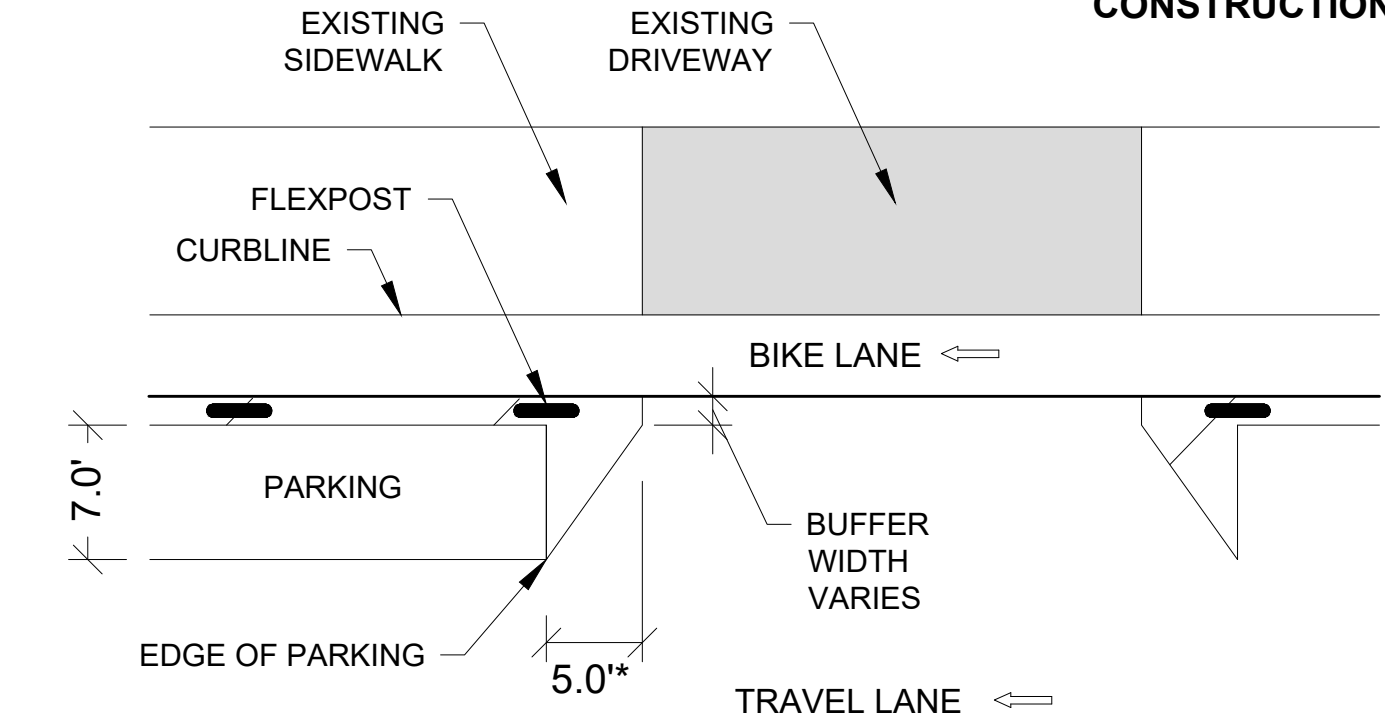
TURN LANE DESIGNATION MARKING DETAIL
NOT TO SCALE

**SOMERVILLE
ELM-BEACON CONNECTOR**

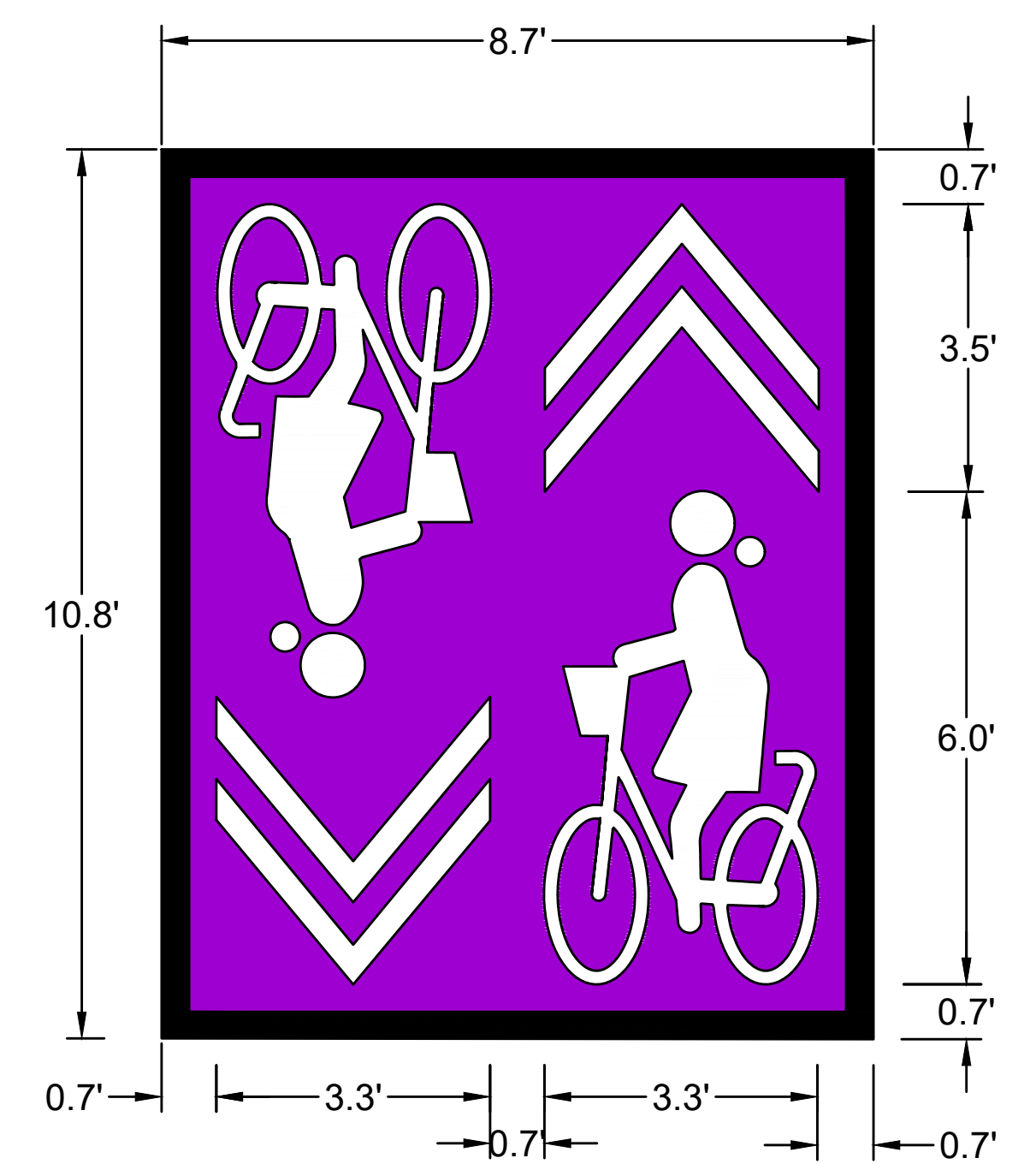
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	N/A	32	32
PROJECT FILE NO.		N/A	



CONSTRUCTION DETAILS



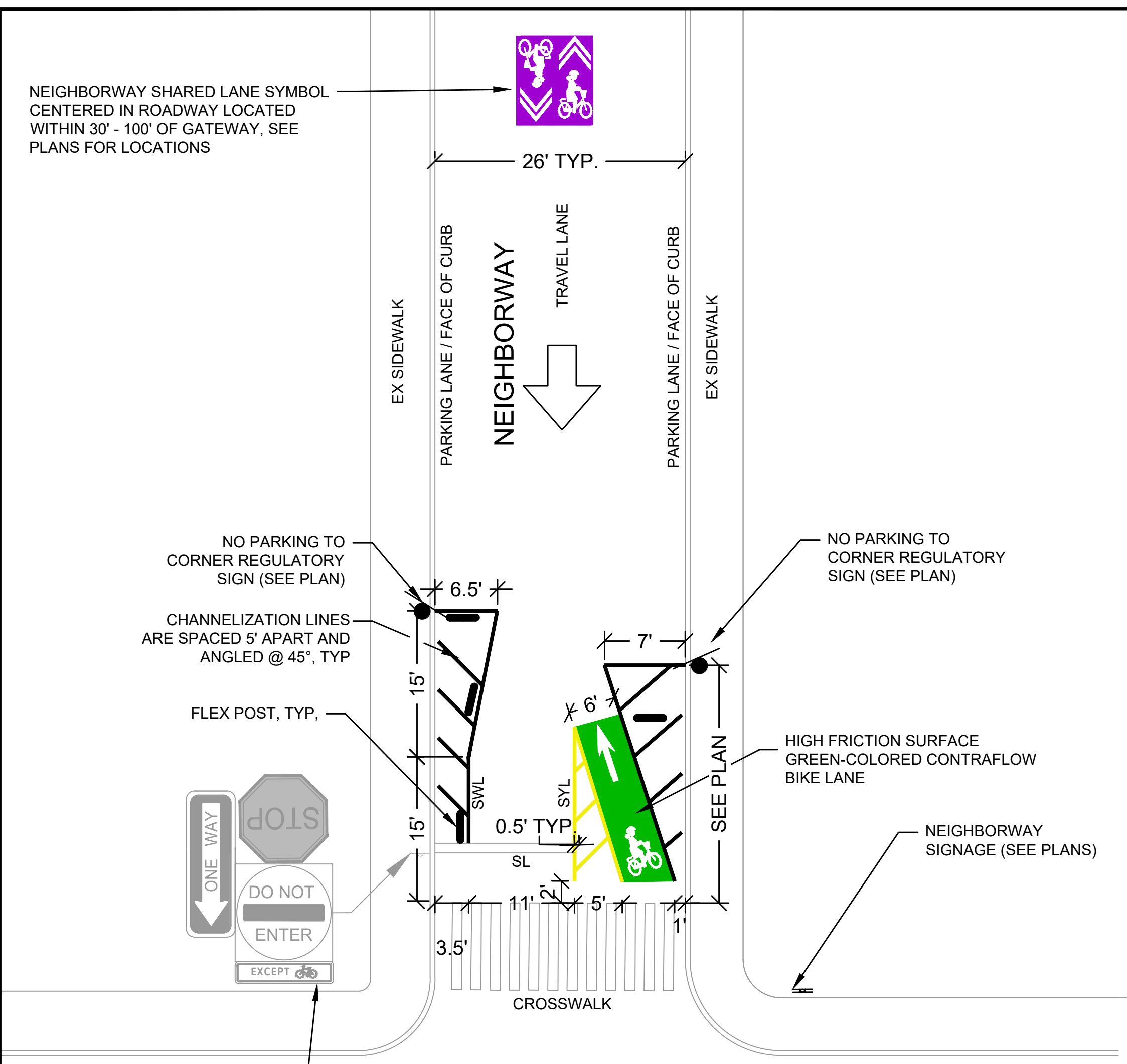
- NOTES:**
1. BUS STOP PAVEMENT MARKINGS SHOULD MATCH OUTER EDGE OF EXIST PVMT MARKINGS. IN LOCATIONS WHERE THERE ARE NO EXIST PVMT MARKINGS, OUTER EDGE OF BUS STOP PVMT MARKINGS SHOULD BE 8" FROM FACE OF CURB UNLESS OTHERWISE NOTED.
 2. IN CASES WHERE THREE "BUS" LETTERING MARKINGS ARE PROPOSED, THE THIRD MARKING SHALL BE CENTERED BETWEEN THE FRONT AND REAR "BUS" MARKINGS.



1. SPACING OF SYMBOLS ALONG STREET = 250-350'. SEE PLANS FOR SYMBOL LOCATIONS. CONTRACTOR SHALL FIELD VERIFY FINAL LOCATIONS WITH THE CITY / CONSULTANT PRIOR TO INSTALLATION.
2. SYMBOLS SHALL BE CENTERED FROM CURB TO CURB IN THE ROADWAY. DO NOT PLACE SYMBOLS ON LANE LINES OR ON TOP OF IN-ROAD UTILITIES (WATER GATES, MANHOLES, CATCH BASINS, ETC.).
3. SYMBOLS ARE OUTLINED WITH A 4" SOLID WHITE LINE (SWL)
4. SYMBOL DIMENSIONS ARE BELOW:

	W (FT-IN)	H (FT-IN)
NEIGHBORWAY SYMBOL	3'-4"	5'-0"
CHEVRON	3'-3"	3'-6"
PURPLE	8'-0"	9'-10"
SWL CENTER TO CENTER	8'-6"	10'-2"
TOTAL DIMENSIONS	8'-8"	10'-6"

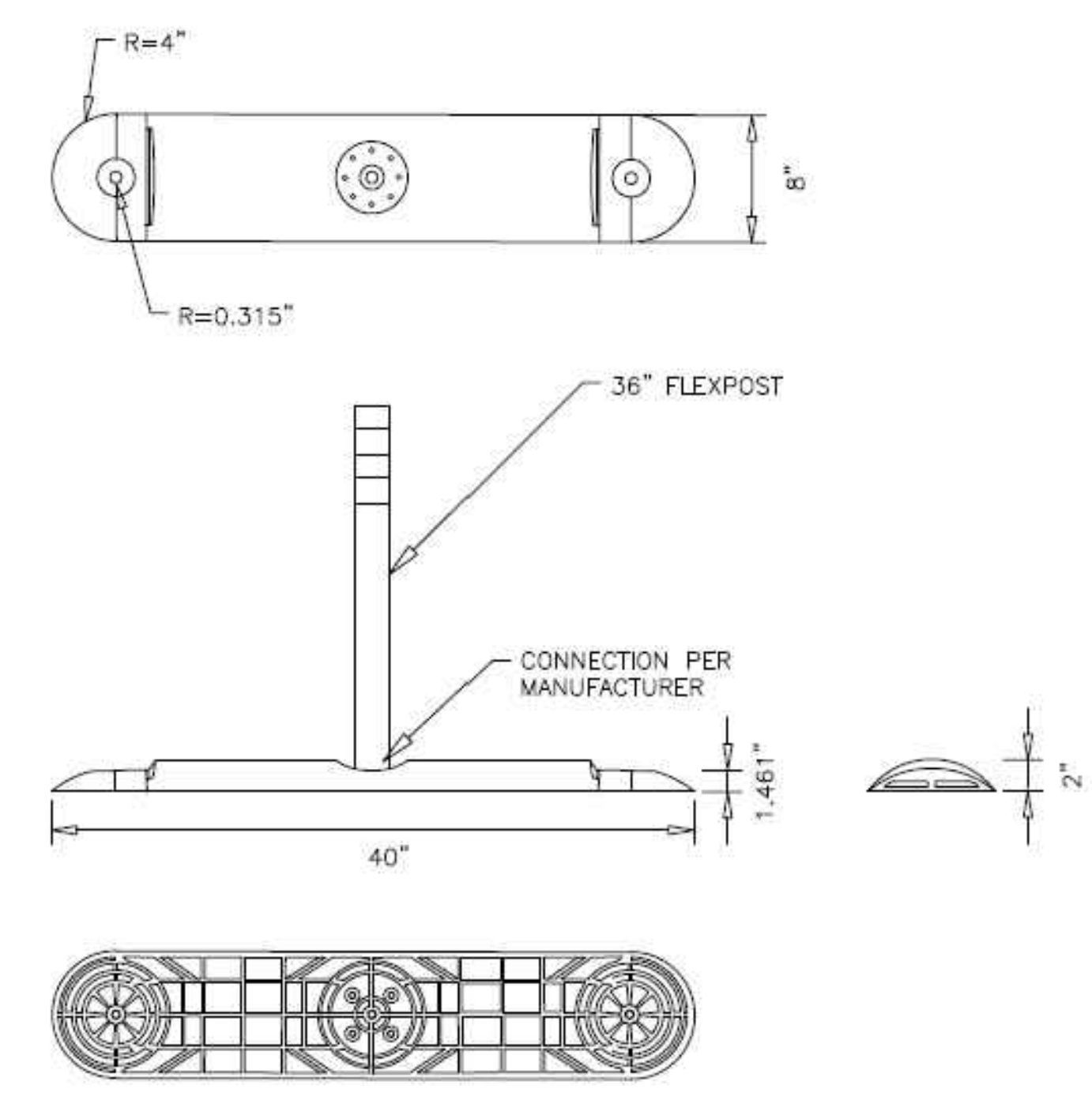
**NEIGHBORWAY PAVEMENT MARKINGS
NOT TO SCALE**



INTERSECTION

NOTE:
SEE PAVEMENT MARKING PLANS FOR ADDITIONAL DIMENSIONS, SIGNING, AND STRIPING AT THIS LOCATION.

**HANCOCK STREET NEIGHBORWAY GATEWAY DETAIL
NOT TO SCALE**



**TRAFFIC SEPARATOR CURB WITH 36" WHITE FLEXPOST DETAIL
NOT TO SCALE**

MANUFACTURING INFORMATION

1. INJECTION MOLDED
2. UV STABILIZED HDPE
3. COLOR: WHITE OR YELLOW (SEE PLANS)

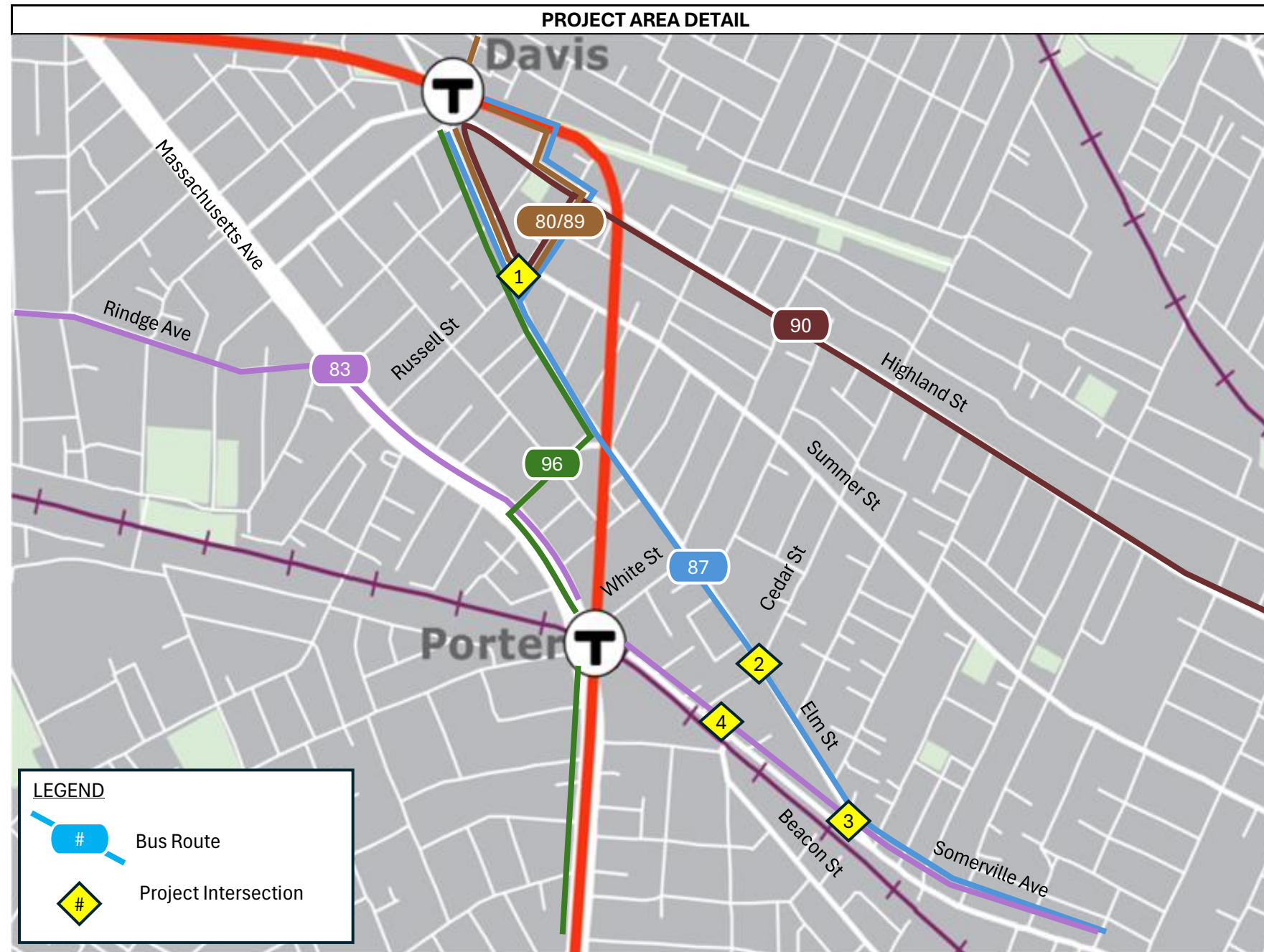
NOTES

1. CRASHWORTHINESS TESTED TO 2009 M.A.S.H STANDARDS
2. INSTALL USING 1/2" X 4" CONCRETE SCREW ANCHORS (DRILLED)
3. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. DIMENSIONS, MATERIALS, AND ATTACHMENTS MAY VARY BETWEEN MANUFACTURERS.
5. COLOR OF POST SHALL MATCH THE COLOR OF THE ADJACENT PAVEMENT MARKING LINES.

TSP PLANS

ELM-BEACON CONNECTOR - SOMERVILLE, MA

Date: 4/27/2026



The Transit Signal Priority (TSP) Plan provides a detailed operational description of each signalized intersection within the project area for TSP service implementation. The document should be used together with any project signal construction plans and standard specifications to provide a complete understanding of the overall design.

MBTA POINT OF CONTACT

Jay Jackson, PE
 RSP Sr Technical Manager
jayjackson@mbta.com
 (617)549-7859

- TRANSIT BUS SERVICES THROUGH CORRIDOR**
- 1 Route 80
 - 2 Route 83
 - 3 Route 87
 - 4 Route 89
 - 5 Route 90
 - 6 Route 96

- PROJECT INTERSECTIONS**
- 1 Elm St & Russell St & Summer St & Cutter Ave
 - 2 Cedar St & Elm St & Mossland St
 - 3 Elm St & Somerville Ave
 - 4 Somerville Ave & Beacon St & Mossland St

EXECUTIVE SUMMARY

TSP Overview

Transit signal priority (TSP) is being implemented in this corridor to improve transit (trolley and bus) operations. TSP makes **real-time modifications** to signal timing to increase the likelihood that an intersection approach will have a green indication when a transit vehicle arrives, or else to reduce the time a transit vehicle has to wait at a red light.

TSP Implementation

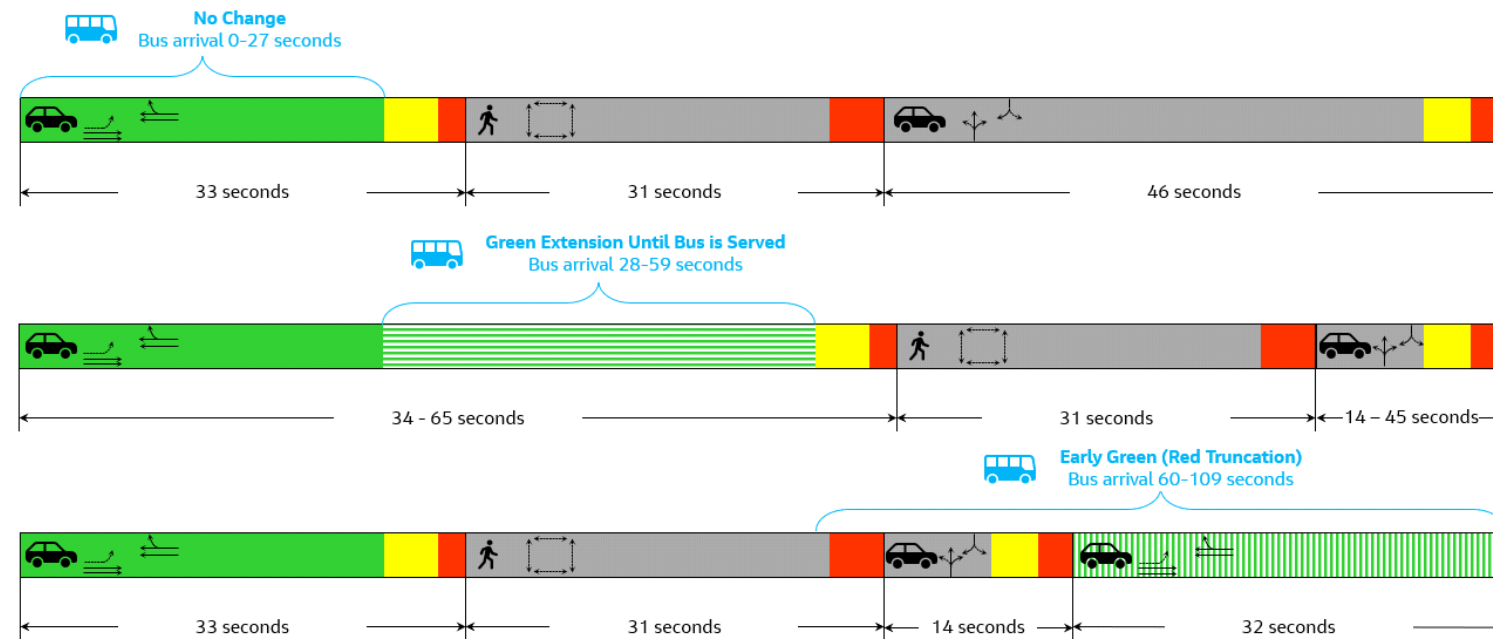
In this project, TSP is being added on top of existing signal timing and phasing, which will remain as currently exists. TSP will never skip a yellow or red clearance phase, skip pedestrian walking and clearance time, reduce the duration of signal phase beyond what is allowable to maintain minimum green requirements, or skip a phase entirely when there is any demand for that phase.

TSP Strategies in this project (see right)

- A **green extension** is triggered when a transit vehicle is expected to arrive to the intersection shortly the end of its signal phase, and miss its opportunity to cross the intersection during a given cycle. When green extension is called, the phase is extended to maintain the green indication until the transit vehicle has crossed. Subsequent phases are shortened by some allowable amount.
- An **early green** is triggered when a transit vehicle is waiting at a red indication or is expected to arrive to the intersection shortly before the beginning of its signal phase and have to wait for green. When an early green is called, the phase(s) before the one required by the transit vehicle are shortened by some allowable amount, for the transit phase to begin earlier.

TSP Strategies not in this project

Other TSP strategies like phase insertion, phase resericing, skipping phases, skipping pedestrian movements, phase order changes, and breaking coordination will not be implemented in this project.



This image is for illustrative purposes only. See detail sheet for actual timings.

TSP TECHNICAL IMPLEMENTATION

General Notes

1. Actual transit schedules may adjust with service changes. For up to date information, reference mbta.com and GTFS and GTFS/RT feed. (General Transit Feed Specification/Real Time)
2. All signal/TSP timings shown are in seconds unless otherwise noted.

Priority Request Generator (PRG) and TSP Requests

PRG System

1. The PRG system determines when a transit vehicle would benefit from TSP and sends a **PRG message with a TSP request** to the signal controller.
2. PRG messages shall be automatically and continuously generated based on geofence zone placement, speeds, transit stop locations, and other site-specific conditions.
3. PRG messages are only generated when a transit vehicle is en-route and in service as determined by configurable PRG logic (Unconditional Service).
4. The PRG shall only have **one** priority service request active with the traffic signal controller at a time.
5. Priority within a class type and level is the same, typically issued on a **first-come-first-served** (FCFS) basis (closest vehicle based on ETA), and persistently applied without any relative priority considerations given to route or direction.

PRG messages shall include

1. **TSP channel and strategy** being requested based on transit route and direction. (See intersection sheets for details about TSP channels and strategies).
2. **Time of Service Desired (TSD)**, indicating the expected time of arrival (ETA) of the transit vehicle at the intersection stop bar based on the current time, bus position and speed.
3. **Time of Expected Departure (TED)**, indicating the expected time of departure from the far side of the intersection (clearing the intersection) based on the current time, bus position and speed.
4. **Time to Live (TTL)**, indicating the duration for which the request message is to remain active and valid.

These parameters shall be fine tuned based on field testing and observations.

TSP Timing Settings

For a given phase, its **green** time is

During **free** operations:

Green = Maximum Green

During **coordinated** operations:

Green = Phase Split - LPI* - Yellow Clearance - Red Clearance

* Leading Pedestrian Interval, if present

Spare green is determined as the **smaller** of the following two calculations

Spare Green_A = Green - Minimum Green

Spare Green_B = Green - Pedestrian Walk - Pedestrian Clearance

The **maximum** a phase can be **reduced** by and not infringe on its minimum green and pedestrian durations is its entire spare green. However, a smaller maximum may be used if necessary to prevent excessive impact to other road users. The maximum reduction setting is programmed into the controller. The controller can then shorten phases by up to the maximum reduction amount to serve a transit vehicle on another approach.

Maximum Reduction ≤ Spare Green

The **maximum** a phase can be **extended** by is the sum of the maximum reductions on all other non-concurrent phases. However, a smaller maximum may be used if necessary to prevent excessive impact to other road users. The maximum extension setting is programmed into the controller. The controller can then lengthen a phase by up to the maximum extension amount to serve a transit vehicle on that approach.

Maximum Extension ≤ ∑ Maximum Reductions on other phases

READING TSP PLANS

The **TSP Settings table** shows an overview of the TSP configuration for an intersection.

TSP SETTINGS		
TSP Channel Number	1	2
Roadway	Avenue A	Main St
Priority Movement	EBT	NBT
Corresponding Phase	Φ2	Φ4
Applies to Route(s)	109	87
Peak Service Frequency	12 min	18 min
When is Priority Permitted?	All Times	All Times
Lockout Time between TSP Calls	1 cycle	1 cycle
Green Extension	✓	✓
Early Green	✓	✓
Phase Insertion or Reservice	X	X
Skips Phases	X	X
Skips Ped Movements	X	X
Phase Order Changes	X	X
Breaking Coordination	X	X

The direction of traffic served by a channel. E.g.: NBT = northbound

Each of these rows is an **available TSP strategy**. The designers and roadway owners decide whether to implement each strategy or not by weighing expected benefit to transit vehicles against potential disruptions to other road users and overall network performance.

The **signal timing and plan data tables** show how the signal controller is programmed and describe how signal timing works when not TSP is requested. These tables were obtained from existing traffic signal plans and shown in this package with no modifications.

SIGNAL TIMING		
Phase	Φ2	Φ4
Minimum Green	7	12
Extension	-	3
Max Green	50	53
Yellow Change	3	3
Red Clearance	2	2
Recall	OFF/OFF	MAX/OFF
Ped Walk	0	0
Ped Clearance	0	0

PLAN DATA					
Plan	Days and Time	Cycle (s)	Offset (s)	Φ2	Φ4
1	M-F 6AM-10AM	90	67	42	48
2	M-F 3PM-7PM	90	60	35	55
Free	all other times	-	-	-	-

Each column of the table represents a **TSP Channel**. The channel a TSP request is made on indicates to the controller which movement of traffic needs TSP.

For each intersection, the first diagram shows the **existing phasing** sequence, with no modifications from TSP.

Existing Phasing

No TSP

Channel 1 (Avenue A EBL)

Strategy:
Green Extension

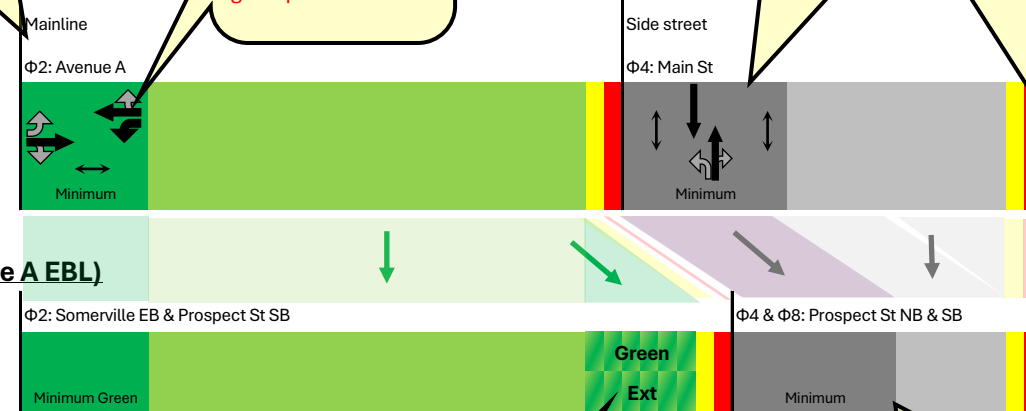
The following diagrams show each of the possible ways the phasing sequence can be **modified by TSP**.

A signal **phase** is a period of time in which particular traffic movements are allowed. When read left to right, these diagrams represent a traffic signal's phasing sequence.

These arrows represent the directions of traffic that are allowed in a given phase.

Each phase has a **minimum duration** determined by vehicular operations and/or safe pedestrian crossing time. TSP cannot reduce or infringe on a phase's minimum.

Each vehicular phase finishes with a **yellow and a red clearance** interval.



In this example, the first phase gets **additional green time** at the end to allow a bus to cross the intersection before the light changes to red.

One or more later phases are shortened to allow the signal cycle to end on time, but without infringing on its minimum duration.

In this example, traffic signals are pre-timed and coordinated in the AM and PM peak periods (plan 1 and 2, respectively). During other times, the signal is in free operation which means that it detects vehicles and responds to traffic demand by adjusting phase durations

The **TSP channel detail table** describes the settings applied to a TSP Channel.

Each column shows the settings for each signal plan (i.e. time of day) corresponding to the plan data table.

The **maximum extension** for the TSP phase, shows up to how many seconds TSP can add to a phase.

The **maximum reduction** for all other phases, shown in seconds, is calculated to not infringe on minimum durations.

Reservice is the length of time that must pass after TSP is granted before the same channel can be called again, also called **lockout**

TSP CHANNEL 1 (Ave A EBT)			
Plan	1	2	FREE
Max Extension (s)	Φ2=29	Φ2=36	Φ2=41
Max Reduction (s)	Φ4=29	Φ4=36	Φ4=41
Reservice (s)	90	90	-

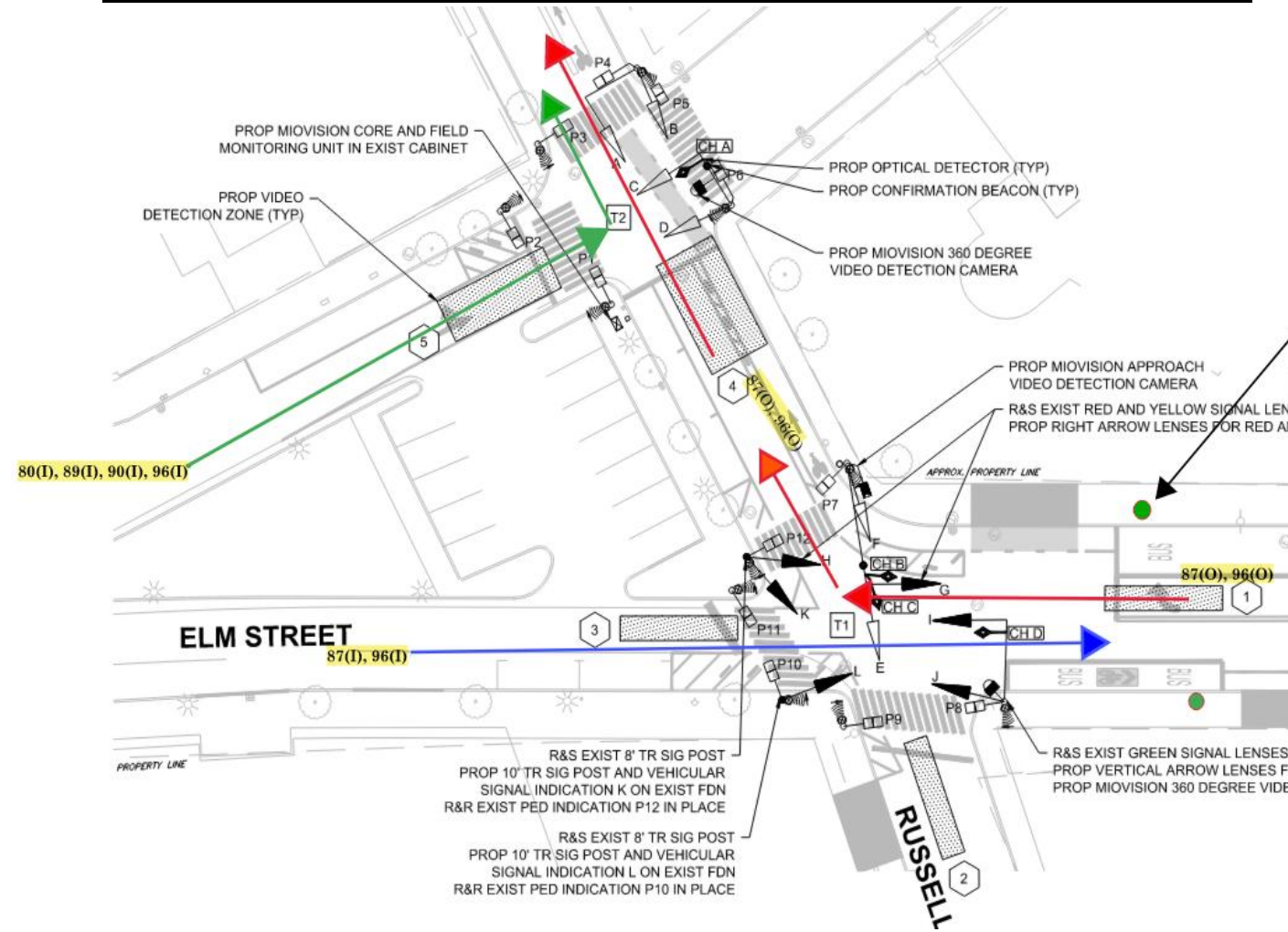
TSP CHANNEL 2 (Main St NBT)			
Plan	1	2	FREE
Max Extension (s)	Φ4=28	Φ4=21	Φ4=43
Max Reduction (s)	Φ2=28	Φ2=21	Φ2=43
Reservice (s)	90	90	-

1. ELM ST. AT RUSSELL ST. AT SUMMER ST. AND CUTTER AVENUE

TSP SETTINGS				
TSP Channel Number	1	2	3	
Roadway	ELM ST.	ELM ST.	SUMMER ST.	
Priority Movement	WBR	EBT	EBL	
Corresponding Phase	Φ1	Φ1 & 4	Φ4	
Applies to Route(s)	87, 96	87, 96	80, 89, 90, 96	
Peak Service Frequency	8 Min	8 Min	8 Min	
When is Priority Permitted?	All Times	All Times	All Times	
Lockout Time between TSP Calls	1 cycle	1 cycle	1 cycle	
Green Extension	✓	✓	✓	
Early Green	✓	✓	✓	
Phase Insertion or Reservice	X	X	X	
Skips Phases	X	X	X	
Skips Ped Movements	X	X	X	
Phase Order Changes	X	X	X	
Breaking Coordination	X	X	X	

LEGEND	
Green time for a given phase	
Additional green time, see Detail Sheet	Additional Green
Yellow clearance time	
Red clearance time	
Minimum green and pedestrian walk and clearance time	Minimum Minimum

INTERSECTION LOCATION

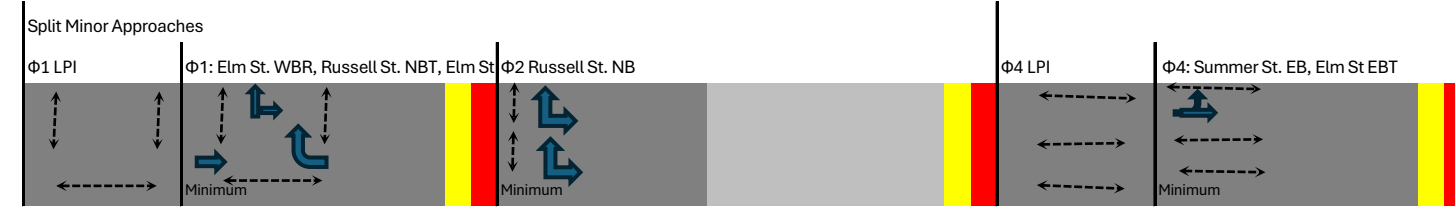


NOTE: Russell St NBT doesn't have any current or planned bus routes therefore doesn't need TSP.
 Bus route frequency information compiled from: <https://platform.remix.com/project/1ca70dda?latlng=42.39521,-71.11804,16.02>

Diagrams for illustrative purposes only. See detail sheet for timings.

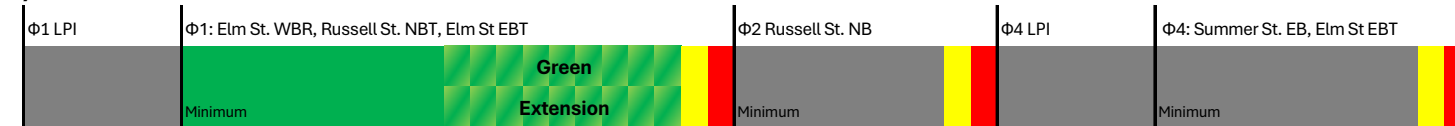
Existing Phasing

No TSP

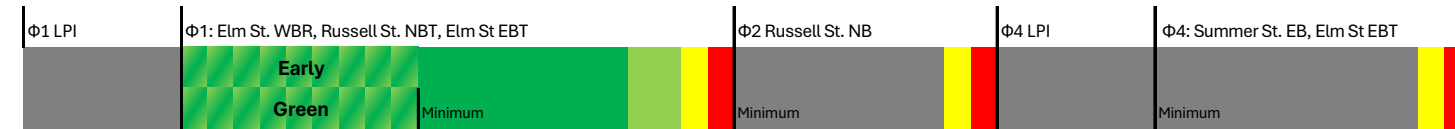


Channel 1 (Elm St. WBR)

Green Extension

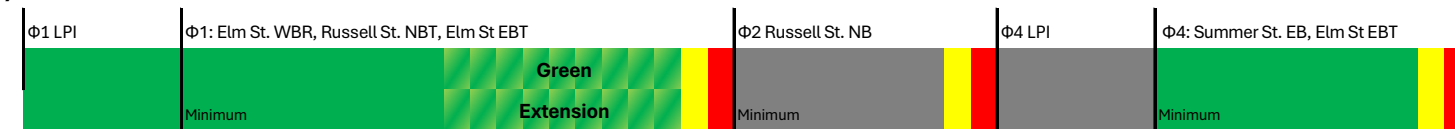


Early Green



Channel 2 (Elm St. EBT)

Green Extension



Early Green



Channel 3 (Summer St. EBL)

Green Extension

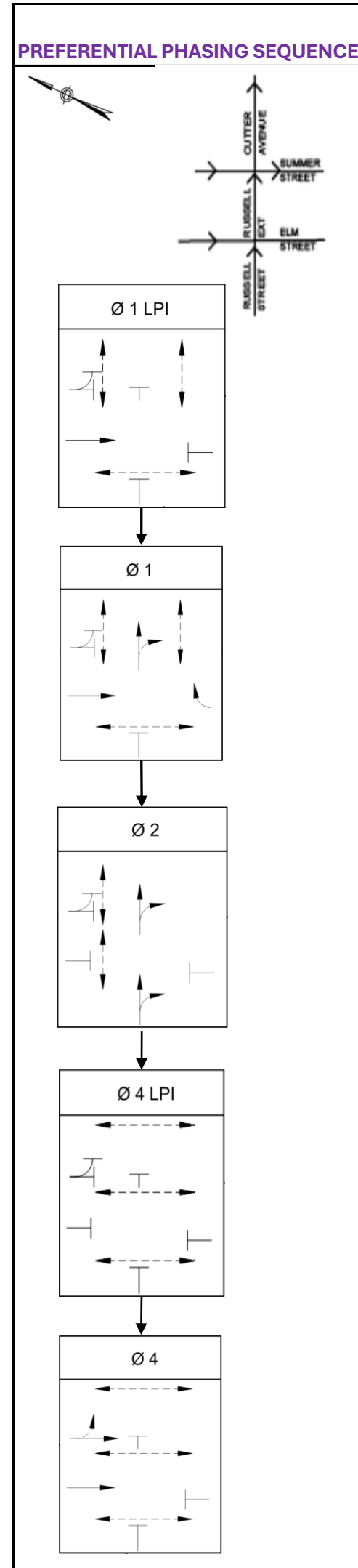


Early Green



Channel 4

1. ELM ST. AT RUSSELL ST. AT SUMMER ST. AND CUTTER AVENUE



SIGNAL TIMING					
Phase	Ø 1 LPI	Ø 1	Ø 2	Ø 4 LPI	Ø 4
Minimum Green*	-	7	9	-	10
Extension*	-	3	3	-	3
Max Green*	-	11	31	-	11
Yellow Change	-	3.5	3.5	-	3.5
Red Clearance	-	1	1	-	1
Recall*	PED	PED	PED	PED	PED
LPI	YES	-	-	YES	-
Ped Walk	6	1	7	6	1
Ped Clearance	-	10	10	-	10

NOTES

* Applicable during free operation only.

1. **Preferential phasing sequence, signal timing, and plan data tables** were obtained from signal plans and shown on this sheet without modification.

2. Values shown in **blue** indicate a design maximum value used, which is lower than the calculated maximum.

Channel 1 (Elm St WBR)			
Plan	Free		
Max Extension (s)	Ø 1=14		
Max Reduction (s)	Ø 2=14		
Reservice (s)	-		

Channel 2 (Elm St. EBT)			
Plan	Free		
Max Extension (s)	Ø 1&4=14		
Max Reduction (s)	Ø 2=14		
Reservice (s)	-		

Channel 3 (Summer St. EBL)			
Plan	Free		
Max Extension (s)	Ø 4=14		
Max Reduction (s)	Ø 2=14		
Reservice (s)	-		

Channel 4			
Plan			
Max Extension (s)			
Max Reduction (s)			
Reservice (s)			

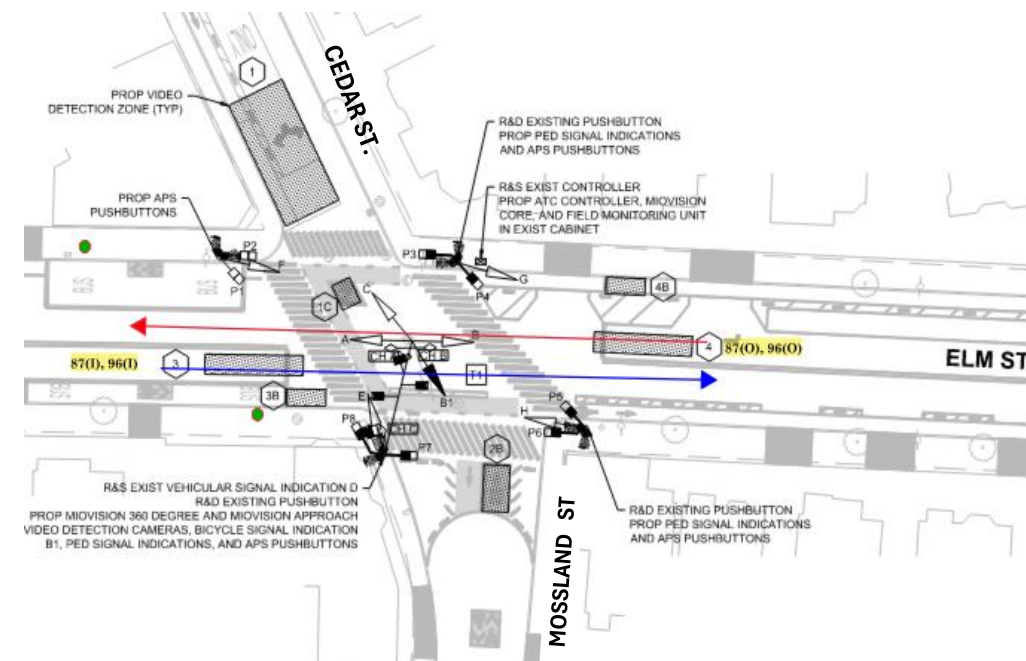
Plan Date:	4/27/2026
MBTA Representative Approval & Signature:	
Municipality/Owner Representative Approval & Signature:	
Designer Representative Information:	
Designed By:	Vannesa Methoxha, Howard Stein Hudson
Edited By:	Hans Kreuber, Ian McKinnon, Howard Stein Hudson

2. ELM ST. AT CEDAR ST. AND MOSSLAND ST

TSP SETTINGS				
TSP Channel Number	1	2		
Roadway	ELM ST.	ELM ST.		
Priority Movement	NBT	SBT		
Corresponding Phase	Φ6	Φ2		
Applies to Route(s)	87, 96	87, 96		
Peak Service Frequency	8 min	8 min		
When is Priority Permitted?	All Times	All Times		
Lockout Time between TSP Calls	1 cycle	1 cycle		
Green Extension	✓	✓		
Early Green	✓	✓		
Phase Insertion or Reservice	X	X		
Skips Phases	X	X		
Skips Ped Movements	X	X		
Phase Order Changes	X	X		
Breaking Coordination	X	X		

LEGEND	
Green time for a given phase	
Additional green time, see Detail Sheet	Additional Green
Yellow clearance time	
Red clearance time	
Minimum green and pedestrian walk and clearance time	Minimum

INTERSECTION LOCATION



NOTE: Cedar St doesn't have any current or planned bus routes therefore doesn't need TSP.
 Bus route frequency information compiled from: <https://platform.remix.com/project/1ca70dda?latlng=42.39521,-71.11804,16.02>

Diagrams for illustrative purposes only. See detail sheet for timings.

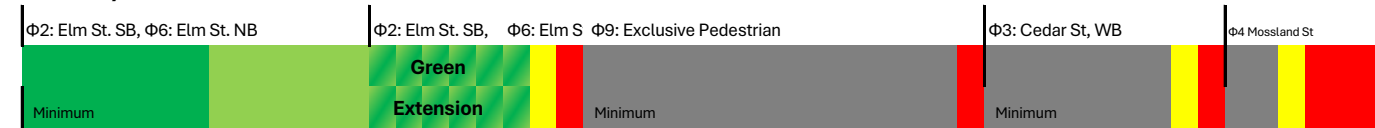
Existing Phasing

No TSP



Channel 1 (Somerville Ave. NBT)

Green Extension



Early



Channel 2 (Somerville Ave. SBT)

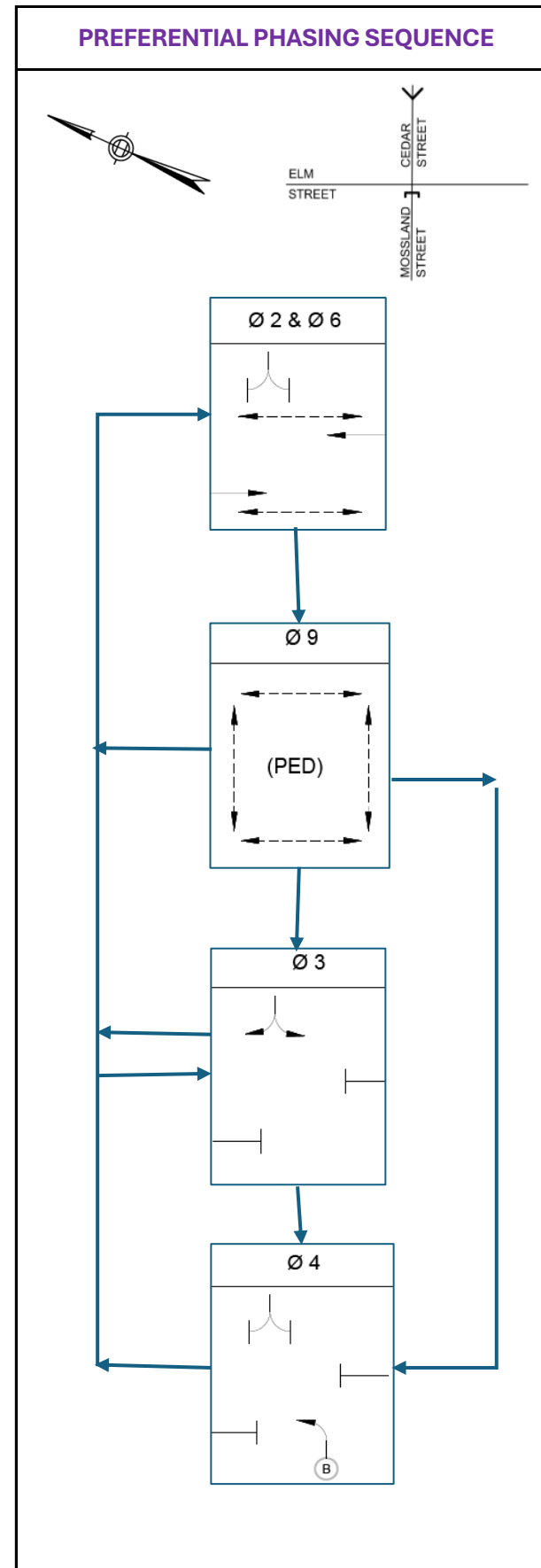
Green Extension



Early



2. ELM ST. AT CEDAR ST. AND MOSSLAND ST



SIGNAL TIMING					
Phase	2	3	4	6	9
Minimum Green*	10	10	6	10	-
Extension*	3	3	-	3	-
Max Green *	21	22	6	21	-
Yellow Change	3	3	3	3.5	-
Red Clearance	1.5	3	9	1	3
Recall*	PED	OFF	OFF	PED	PED
LPI	-	-	-	-	-
Ped Walk	7	-	-	7	7
Ped Clearance	-	-	-	-	18

NOTES	
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MBTA Representative Approval & Signature:	
Municipality/Owner Representative Approval & Signature:	
Designer Representative Information:	
Designed By:	Vannesa Methoxha, Howard Stein Hudson
Edited By:	Hans Kreuber, Ian McKinnon, Howard Stein Hudson

Channel 1 (Somerville Ave. NBT)			
Plan	Free		
Max Extension (s)	Ø6 =12		
Max Reduction (s)	Ø3 =12		
Reservice (s)	-		

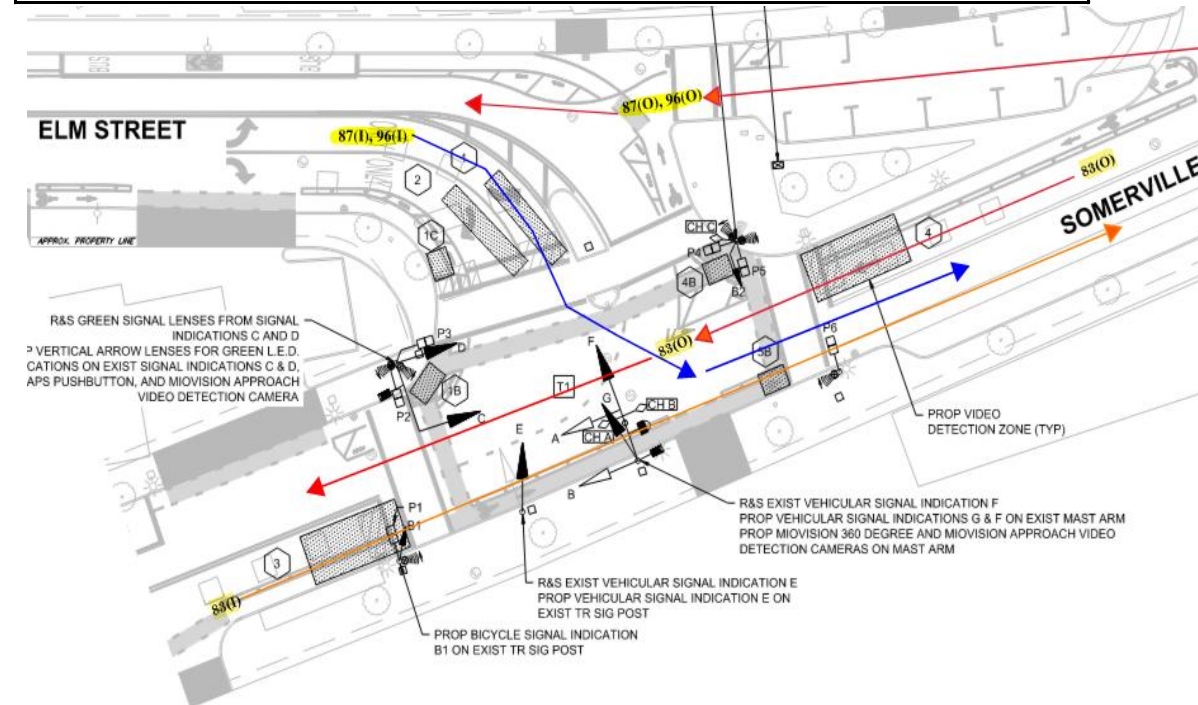
Channel 2 (Somerville Ave. SBT)			
Plan	Free		
Max Extension (s)	Ø2 =12		
Max Reduction (s)	Ø3 =12		
Reservice (s)	-		

3. ELM STREET AT SOMERVILLE AVENUE

TSP SETTINGS				
TSP Channel Number	1	2	3	
Roadway	Somerville Ave.	Elm St.	Somerville Ave.	
Priority Movement	WBT	SBL	EBT	
Corresponding Phase	Φ1	Φ4	Φ2	
Applies to Route(s)	83	87,96	83	
Peak Service Frequency	25 Min	8 Min	25 Min	
When is Priority Permitted?	All Times	All Times	All Times	
Lockout Time between TSP Calls	1 cycle	1 cycle	1 cycle	
Green Extension	✓	✓	✓	
Early Green	✓	✓	✓	
Phase Insertion or Reservice	X	X	X	
Skips Phases	X	X	X	
Skips Ped Movements	X	X	X	
Phase Order Changes	X	X	X	
Breaking Coordination	X	X	X	

LEGEND	
Green time for a given phase	
Additional green time, see Detail Sheet	
Yellow clearance time	
Red clearance time	
Minimum green and pedestrian walk and clearance time	

INTERSECTION LOCATION

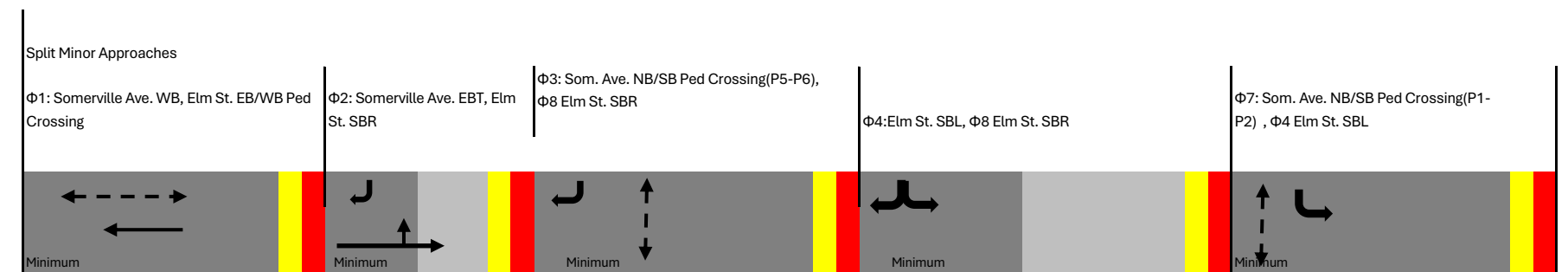


NOTE: Somerville Ave WB right-turn is restricted at the signal and all vehicles will be served via the slip lane, therefore the approach doesn't need TSP.
 Bus route frequency information compiled from: <https://platform.remix.com/project/1ca70dda?latlng=42.39521,-71.11804,16.02>

Diagrams for illustrative purposes only. See detail sheet for timings.

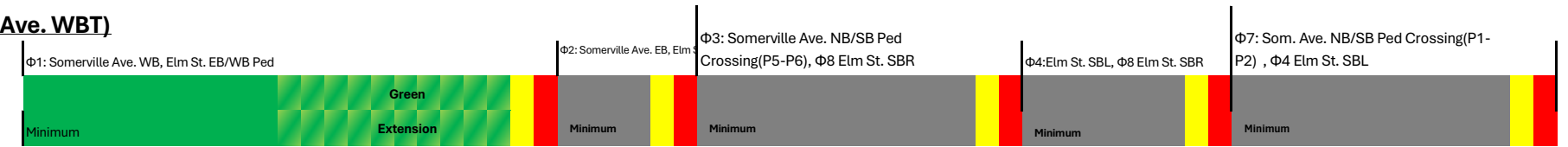
Existing Phasing

No TSP

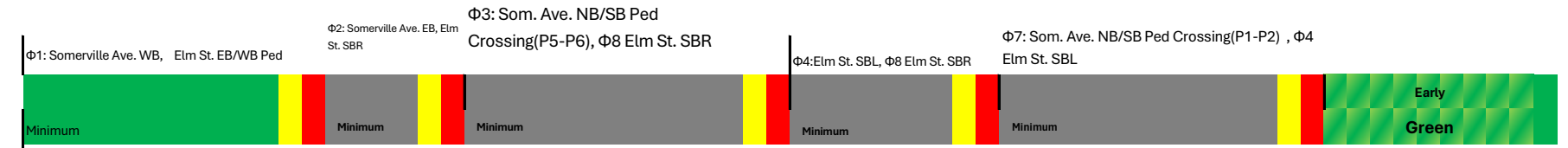


Channel 1 (Somerville Ave. WBT)

Green Extension

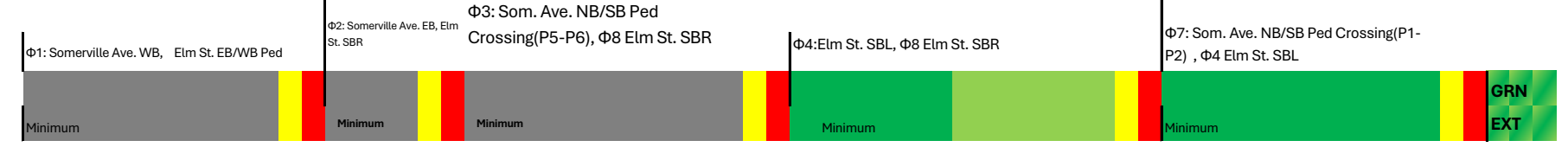


Early Green



Channel 2 (Elm St. SBL)

Green Extension

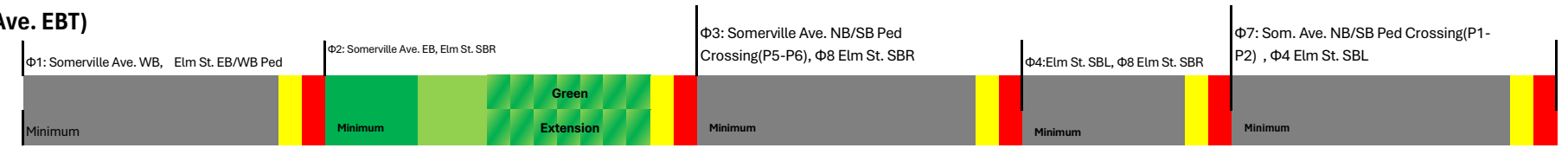


Early Green

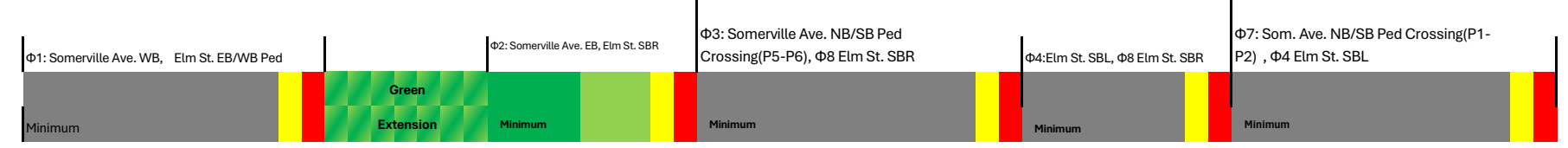


Channel 3 (Somerville Ave. EBT)

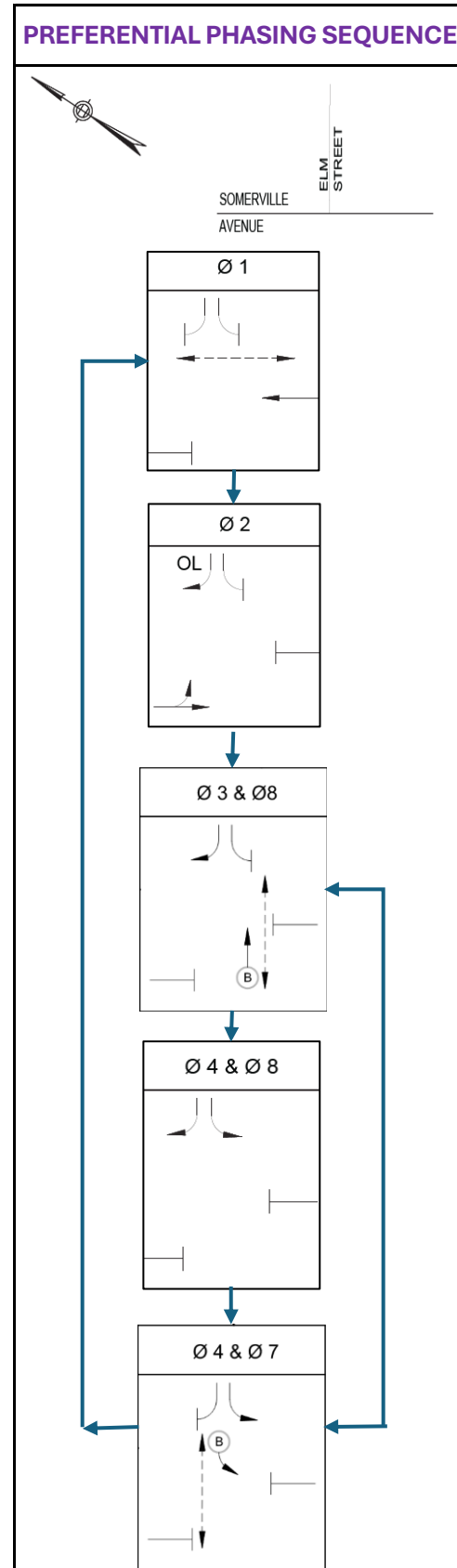
Green Extension



Early Green



3. ELM STREET AT SOMERVILLE AVENUE



SIGNAL TIMING						
Phase	1	2	3	4	7	8
Minimum Green*	20	15	6	15	6	15
Extension*	3	3	3	3	3	3
Max Green1*	33	18	14	32	16	30
Max Green2 and Free Operation*	33	28	14	22	16	20
Yellow Change	3	3.5	3	3	3	3
Red Clearance	2	3.5	3	2.5	3	2.5
Recall*	PED	SOFT	PED	OFF	PED	OFF
LPI	-	-	-	-	-	-
Ped Walk	7	-	7	-	7	-
Ped Clearance	26	-	10	-	12	-

PLAN DATA									
Plan	Days and Time	Cycle (s)	Offset (s)	Ø1	Ø2	Ø3	Ø4	Ø7	Ø8
1	7:00 AM - 10:00AM	120	82	38	25	20	37	22	35
2	2:00 PM - 8:00PM	120	90	38	35	20	27	22	25

NOTES

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MBTA Representative Approval & Signature:	
Municipality/Owner Representative Approval & Signature:	
Designer Representative Information:	
Designed By:	Vannesa Methoxha, Howard Stein Hudson
Edited By:	Hans Kreuber, Ian McKinnon, Howard Stein Hudson

Channel 1 (Somerville Ave. WBT)			
Plan	1	2	Free
Max Extension (s)	Ø1 = 18	Ø1 = 18	Ø1 = 18
Max Reduction (s)	Ø4/Ø8 = 15, Ø2=3	Ø4/Ø8 = 5, Ø2=13	Ø4/Ø8 = 5, Ø2=13
Reservice (s)	120	120	-

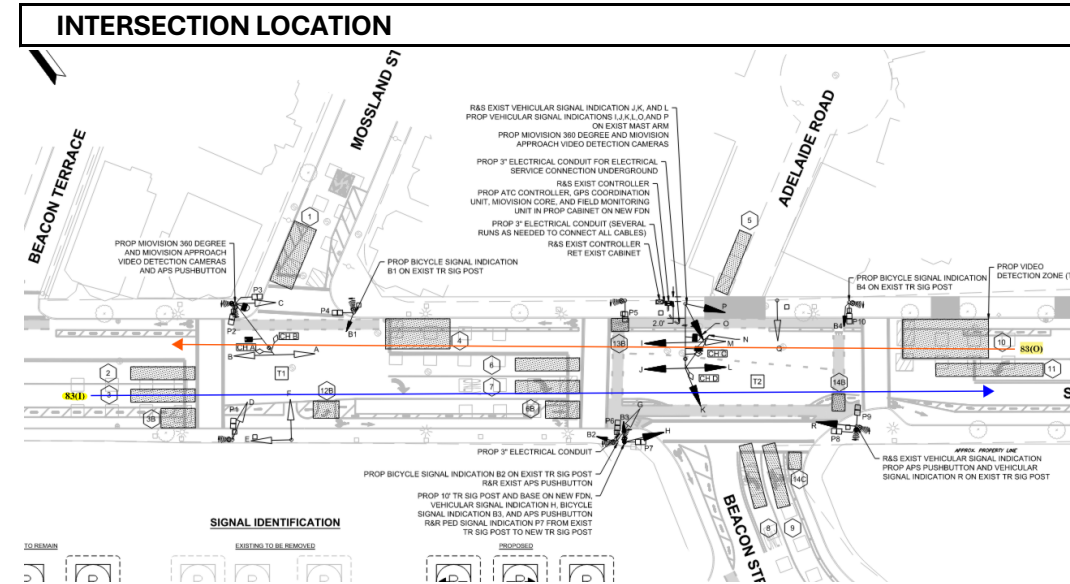
Channel 2 (Elm St. SBL)			
Plan	1	2	Free
Max Extension (s)	Ø4 = 3	Ø4 = 13	Ø4 = 13
Max Reduction (s)	Ø2 = 3	Ø2 = 13	Ø2 = 13
Reservice (s)	120	120	-

Channel 3 (Somerville Ave. EBT)			
Plan	1	2	Free
Max Extension (s)	Ø2 = 15	Ø2 = 5	Ø2 = 5
Max Reduction (s)	Ø4/Ø8 = 15	Ø4/Ø8 = 5	Ø4/Ø8 = 5
Reservice (s)	120	120	-

4. SOMERVILLE AVE. AT BEACON ST. AND ADELAIDE ROAD AND MOSSLAND ST.

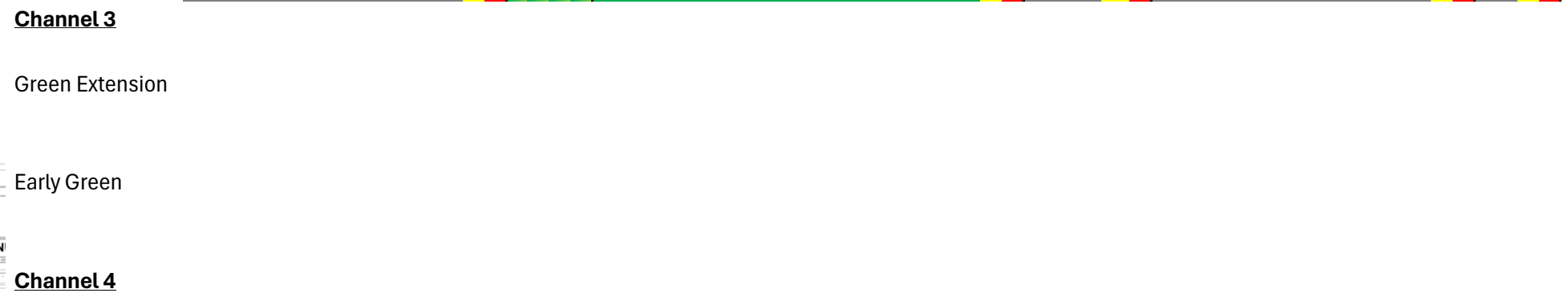
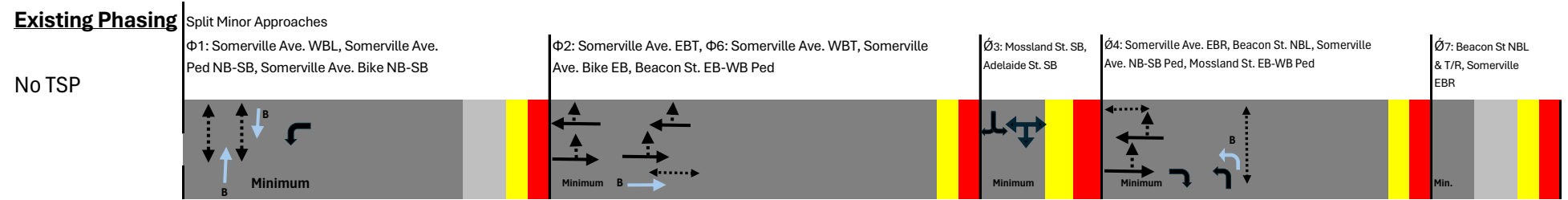
TSP SETTINGS			
TSP Channel Number	1	2	
Roadway	Somerville Avenue	Somerville Avenue	
Priority Movement	EBT	WBT	
Corresponding Phase	Φ2	Φ6	
Applies to Route(s)	83	83	
Peak Service Frequency	25 min	25 min	
When is Priority Permitted?	All Times	All Times	
Lockout Time between TSP Calls	1 cycle	1 cycle	
Green Extension	✓	✓	
Early Green	✓	✓	
Phase Insertion or Reservice	X	X	
Skips Phases	X	X	
Skips Ped Movements	X	X	
Phase Order Changes	X	X	
Breaking Coordination	X	X	

LEGEND	
Green time for a given phase	
Additional green time, see Detail Sheet	Additional Green
Yellow clearance time	
Red clearance time	
Minimum green and pedestrian walk and clearance time	Minimum

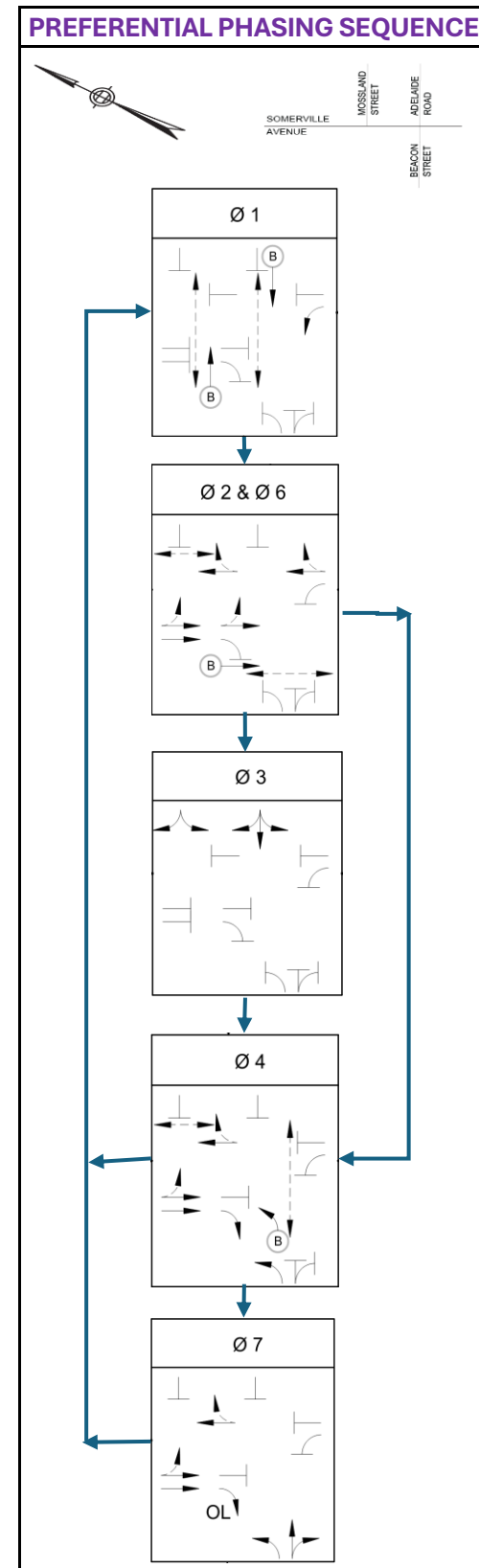


Bus route frequency information compiled from: <https://platform.remix.com/project/1ca70dda?latlng=42.39521,-71.11804,16.02>

Diagrams for illustrative purposes only. See detail sheet for timings.



4. SOMERVILLE AVE. AT BEACON ST. AND ADELAIDE ROAD AND MOSSLAND ST.



SIGNAL TIMING						
Phase	1	2	3	4	6	7
Minimum Green*	20	20	5	20	20	4
Extension*	3	3	3	3	3	3
Max Green1*	31	30	5	20	30	4
Max Green2 and Free Operation*	23	30	5	20	30	12
Yellow Change	3	3	3	3	3	3
Red Clearance	4	3	2	3	3	3
Recall*	PED	SOFT/PED	OFF	PED	SOFT/PED	OFF
LPI	-	-	-	-	-	-
Ped Walk	7	7	-	7	7	-
Ped Clearance	15	26	-	12	10	-

PLAN DATA									
Plan	Days and Time	Cycle (s)	Offset (s)	Φ1	Φ2	Φ3	Φ4	Φ6	Φ7
1	7:00 AM - 10:00AM	120	0	38	36	10	26	36	10
2	2:00 PM - 8:00PM	120	0	30	36	10	26	36	18

NOTES

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1. **Preferential phasing sequence, signal timing, and plan data tables** were obtained from signal plans and shown on this sheet without modification.

2. Values shown in **blue** indicate a design maximum value used, which is lower than the calculated maximum.

Plan Date:	4/27/2026
MBTA Representative Approval & Signature:	
Municipality/Owner Representative Approval & Signature:	
Designer Representative Information:	
Designed By:	Vannesa Methoxha, Howard Stein Hudson
Edited By:	Hans Kreuber, Ian McKinnon, Howard Stein Hudson

Channel 1 (Somerville EBT)			
Plan	1	2	Free
Max Extension (s)	Ø2=9	Ø2=9	Ø2=9
Max Reduction (s)	Ø1=9	Ø1=1, Ø7=8	Ø1=1, Ø7=8
Reservice (s)	120	120	-

Channel 2 (Somerville WBT)			
Plan	1	2	Free
Max Extension (s)	Ø6=9	Ø6=9	Ø6=9
Max Reduction (s)	Ø1=9	Ø1=1, Ø7=8	Ø1=1, Ø7=8
Reservice (s)	120	120	-

Channel 3			
Plan			
Max Extension (s)			
Max Reduction (s)			
Reservice (s)			

Channel 4			
Plan			
Max Extension (s)			
Max Reduction (s)			
Reservice (s)			