

Addendum No. 2 to IFB #26-45



CITY OF SOMERVILLE, MASSACHUSETTS
Department of Procurement and Contracting Services
JAKE WILSON
MAYOR

To: All Parties on Record with the City of Somerville as Holding IFB #26-45 Shore Drive Greenway Construction

From: Felisa Gárate, Senior Procurement Manager

Date: 2/18/2026

Re: Questions and Answers
Extension of Bid Submission Deadline
Revised Technical Specifications and Drawings
Revised Minimum Quality Requirements
Bid Holder's List

Addendum No. 2 to IFB #26-45

Please acknowledge receipt of this Addendum by signing below and including this form in your proposal package. Failure to do so may subject the proposer to disqualification.

NAME OF COMPANY / INDIVIDUAL: _____

ADDRESS: _____

CITY/STATE/ZIP: _____

TELEPHONE/FAX/EMAIL: _____

SIGNATURE OF AUTHORIZED INDIVIDUAL: _____

ACKNOWLEDGEMENT OF ADDENDA:

Addendum #1 _____ **#2** _____ **#3** _____ **#4** _____

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The City of Somerville is extending the bid submission deadline to: **Monday, March 2nd, 2026, at 2:00PM**. The following deadlines have also been extended:

- Deadline for Submitting Questions to IFB – now 2/19/2026 by 5PM
- Anticipated Contract Award – now 3/9/2026

Updated/Revised Technical Specifications and Drawings

- Per this addendum, the technical specifications and drawings have been revised to include **two-year tree maintenance and warranty** and are attached in this addendum. Updates/revisions have been made to the following sections:
 - **L3-01**, Planting Plan 1
 - **L3-02**, Planting Plan 2
 - **L3-03**, Planting Plan 3
 - **L3-04**, Planting Plan 4
 - Specification Section **32 93 00** – Planting

Updated/Revised Minimum Quality Requirements

- Per this addendum, the minimum quality requirements form has been revised to include an additional quality requirement. Bidder's **must** use the attached updated minimum quality requirements form when submitting their bid. The additional minimum quality requirement reads: *Is the contractor able to provide off-street laydown space for the storage of project equipment and materials?*

#	Question	Answer
1.	Can you please clarify the surface of the pathway? On plans TRO-01 thru TRO-04 it calls for HMA (Hot Mix Asphalt) and on Site Details L4-01 it calls for Trail Surface Aggregate sect 321540.	The plans do have multiple surfaces but they are called out for different areas. The Shared Use Path surface material is HMA, per the Traffic drawings. Please refer to TR3-01 for the Shared Use Path details. The surface material surrounding site benches is Trail Surface Aggregate (TSA), per the Landscape Drawings (L1-01 through 04), and as seen on the details referenced on L4-01.
2.	Is there a plan holders list you could share with us?	Please see attached.

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3.	Should the bid bond be made out to the City of Somerville or to the managing city department OSPCD-PSUF?	The bid bond should be made out to the City of Somerville.
4.	Under Key Project Information (page 2) a Performance Bond Requirements are listed as N/A. However, under Project Schedule (page 12), Contractor submission paperwork required states “performance and payment bonds”. Please advise if a Performance Bond will be required for this project.	A 50% Payment Bond will be required of the awarded vendor. A Performance Bond is not required.

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 through 13 or a failure to respond to any of the following minimum standards, will result in disqualification of your bid.

QUALITY REQUIREMENTS		YES	NO
1.	The contractor has been established in this specified field for at least five (5) years. This requirement extends to all subcontractors.		
2.	The contractor has at least three (3) years of continuous business under the same name or organizational structure.		
3.	The supervisor who will be assigned to the daily on-site coordination and project management has a minimum of 5 years of experience constructing projects of comparable scope and complexity.		
4.	The contractor specializes in the preparation, construction, and installation of green stormwater infrastructure (GSI) similar to the system in this project. Reference(s) must be provided.		
5.	The contractor has completed a minimum of five (5) roadway or traffic calming projects within the past five (5) years for municipal or state agencies, including work within active public rights-of-way (e.g., speed humps, curb realignment, or pavement markings)?		
6.	The contractor has successfully completed a minimum of three (3) similar municipal or state projects within the past six (6) years that include at least two of the following elements: (a) construction of shared-use paths or multi-use trails, (b) roadway reconstruction or traffic calming, and (c) installation of green stormwater infrastructure or comparable stormwater best management practices. Reference(s) must be provided.		
7.	The contractor has successfully completed at least one (1) project within the past five (5) years that involved construction or reconstruction of a shared-use path, multi-use trail, or separated bike facility in an urban environment, including maintenance of user access during construction. Reference(s) must be provided.		
8.	The contractor or relevant subcontractor has installed and provided establishment care for at least fifty (50) new trees on at least three (3) projects in dense urban settings within the last five (5) years. Reference(s) must be provided for items 8 or 9 in Quality Requirements.		
9.	The contractor or relevant subcontractor has completed a minimum of three (3) publicly bid street tree projects within the last six (6) years for at least \$200,000.00. Reference(s) must be provided for items 8 or 9 in Quality Requirements.		
10.	The contractor can certify that a Massachusetts Certified Arborist (MCA) or International Society of Arboriculture (ISA) Certified Arborist or equivalent will supervise all tree planting operations.		
11.	The Contractor warrants that for two years after the date of final acceptance of each tree, the tree will remain in a healthy and vigorous growing condition; and if the tree is not healthy and vigorous, the tree will be replaced as described in the Technical Specifications.		

12.	Is the contractor able to provide off-street laydown space for the storage of project equipment and materials?		
13.	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?		
14.	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 through 13 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. **If contractor and/or subcontractor has worked on a project for the City of Somerville in the last five (5) years, City project management references are required from those projects.**

Please use the below form for subcontractors used to meet minimum quality requirements.

Subcontractor: _____ Contact: _____

Address: _____ Phone: _____

_____ Email: _____

Subcontractor: _____ Contact: _____

Address: _____ Phone: _____

_____ Email: _____

Subcontractor: _____ Contact: _____

Address: _____ Phone: _____

_____ Email: _____

Bid Holder's List IFB 26-45 Shore Drive Greenway Construction

Name	Company	Address	Phone	E-Mail
Anthony Natale	ANJ		781-308-8782	anjconstruction600@gmail.com
Nick Salem	Argus Construction Corp	363 Great Rd # 203, Bedford, MA 01730	(781) 275-7417	nick@argusconstructioncorp.com
Scott Koesterich	ATLANTIC SPORTS GROUP		7818210112	scott@atlanticsg.com
	Belko Landscaping	242 Lawrence Rd., Salem, NH 03079	603-458-1421 (cell)	john@belkolandscaping.com info@belkolandscaping.com tara@belkolandscaping.com
	Charles Contracting Co, Inc.	Box 216, Watertown, MA		john@charlescontracting.net
Lisa Arseneault	Charter Contracting Company		857-246-6835	larseneault@charter.us tcady@charter.us
Cheryl Sady, Jeffrey Burke	Classic Site Solutions	187 Oaks Road, Framingham, MA 01702, 95 Post Office Park, Suite 9522, Wilbraham, MA 01095	P 508.309.6660, P 413.596.0051	Cheryls@classicsitesolutions.com jeff@classicsitesolutions.com nickb@classicsitesolutions.com jeffb@classicsitesolutions.com
Barbara Levesque	Commodore Builders	404 Wyman Street, Waltham, MA	(617) 614-3500	nmartini@commodorebuilders.com blevesque@commodorebuilders.com
Keith Holmes	Core & Main	83 Progress Ave, Springfield MA, 01104	2413-732-8400	Keith.Holmes@coreandmain.com
Dan Desmond	Desmond Landscape Contractors, Inc.	P.O. Box 756, North Andover, MA 01845	(978) 837-8101	ddesm62@aol.com
Bill Ragan	DUGOUTS USA	6565 w Norvell Bryant Hwy, Suite B, Crystal River, FL 34429	(352)527-7500	Billragan79@outlook.com
Edward J O' Sullivan	Edward J O Sullivan	25 DEERFIELD AVE, Westwood, MA 02090	(617) 710-5109	havencontracting1@gmail.com crowleyde98@gmail.com
Amy Ge	Elite Textile Trading LLC	300 Spectrum Center Drive Suite 400, Irvine, CA 92618	(323) 300-8692	amy@elitetex.us
Laura Belancik	EnviroMed Services, Inc.	470 Murdock Avenue, Meriden, CT 06450	TEL: 203/238-4846	lbelancik@enviromedservices.com
Liam, Barbara, or John Fleming	Fleming Brothers	106 Columbia Street, Quincy, MA 02169	phone: (781) 843-4071	jfleming@flemingbrosinc.com
Glenn Cairns	George R. Cairns and Sons, Inc.	8 Ledge Road, Windham, NH 03087-1509	(603) 421-1888	glenncairns@gcairnsinc.com
Costas Papachristos	Global Remediation Services	700 Richmond Street, East Taunton, MA 02718	508.828.1005 x112	mphelps@globalremediation.com
Matt Phelps	Green Acres Landscape & Construction	21 Malbone Street, Lakeville, MA 02347	(508) 823-6699	emaiato@greenacreslandscape.net
Ed Maiato	Heimlich Landscaping & Construction Corp.	65 Burlington Street, Woburn, MA 01801	Ph (781) 938-8988	heimlichlandscaping@gmail.com
Erin Wilburn; Todd Heimlich	Hi-Way Safety Systems, Inc.	9 Rockview Way, Rockland, MA 02370	(781) 982-9229	lmurphy@hiwayss.com
Lynne Murphy	I.W. Harding Construction Co. Inc.	354 Pleasant Street, West Bridgewater, MA 02379	(508) 588-2222	bshalek@iwharding.com
Brad Shalek	IMS	945 Hornblend Street Suite G, San Diego, CA 92109	(858) 490-8800	nj@imsinfo.com
Jennifer Tran	J&J Contractors, Inc.01862	101 Billerica Ave, North Billerica, MA	(978) 452-9898	kamp@jjcontractor.com
Ryan Elliott/ Joseph Phelan IV	J.J. Phelan & Son Co. Inc.	120 Lumber Lane, Tewksbury, MA 01876		RElliott@jjphelan.com JPhelan4@jjphelan.com kintle@jjphelan.com jnishiwa@jjphelan.com jphelan@jjphelan.com SElliott@jjphelan.com
P.J. Tonelli	JAM Corp.	P.O. Box 60118, Worcester, MA	508-852-4119	ptonelli@jamcorpm.com contact@jam-corporation.com sales@jamcorpm.com
James Tebou, owner	Jamie T Construction (J.T. Construction)	PO Box 815, Bridgewater Ma 02324	Phone:508-697-2317	Jamietconstruction@gmail.com
	JNJ Saccia, Inc.			jnjssaccia@comcast.net
Allison Graham	K5 Corporation	9 Rockview Way, Rockland, MA 02370	(781) 982-9229	agraham@K5Corporation.com kthompson@K5Corporation.com
James Uryase	LaRosa Building Group LLC	163 Research Parkway, Meriden, CT 06450	(203) 235-1770	juryase@larosabg.com
Mike Deso	Lockwood Remediation Technologies, LLC	89 Crawford Street, Leominster, MA 01453	cell: 774-239-5855	mdeso@lrt-llc.net
	Lorusso Corp.	320 South St, Plainville, MA 02762	508-695-3252	sales@lorussocorp.com
Kyle Annutto	MacKay Construction		(781) 760-1885	kannutto@mackaycompanies.com mackay@mackaycompanies.com
Regina Curran	McCourt Construction	60 K Street, South Boston, MA 02127	(617) 269-2330	recurran@mccourtconstruction.com rniess@mccourtconstruction.com
Robert Nies	Metro Equipment Corp.	20 Rex Drive, Braintree, MA 02184	781-843-1330	cory@metroequipmentcorp.com
Cory Kelly	Mountainview Landscapes and LawnCare	67 Old James Street, Chicopee, MA 01301	413-536-7555	stevec@mountainviewinc.com
Stephen Corrigan	Musco Sports Lighting	2107 Stewart Rd, Muscatine, IA 52761	(800) 756-1205	bid.center@muso.com
John Kaufman				
Eric Wendland	NELM Corp		781-421-3380	eric@nelmcorp.com rc@nelmcorp.com
Cynthia Haggerty	New England Sealcoating		781-749-6800; 781-783-6035	CHaggerty@newenglandsealcoating.com
Eric Johnson	North America Procurement Council	PO Box 40445, Grand Junction, CO 81504	(302) 450-1923	sourcemanagement@napc.me
James Dodd	Odin Construction Solutions	4 West Park, suite 130, Bordentown, NJ 08505	(530) 906-2370	jdodd@odinconstruction.com
	Onyx Corporation	18 Wetherbee Street, Acton, MA	978-263-1185	info@onyxcorporation.net
	Projectdog, Inc.	18 Graf Road #8, Newburyport, MA 01950	978.499.9014	addenda@projectdog.com
Colby Hurd	Quirk Construction Corp	1 Martel Way, Gerogetown, MA 01833	978-352-4666 978-697-8275 Cell	mark@quirkcorp.com candice@quirkcorp.com
James Learned	R. Bates & Sons, Inc.	140 Pratts Jct. Rd., Suite 101, Sterling, MA 01564	(978) 563-1390	jcl@rbatesconstruction.com
Amanda Loggia	R.A.D. Corp. d/b/a R.A.D. Sports	171 VFW Drive, Rockland, MA 02370	(781) 871-4400	bids@radsports.com stb@radsports.com
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	Sciaba Construction Corporation			bsathi@sciabacorp.com esciaba@gmail.com donna@sciabacorp.com
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	Unified Contracting Inc.	381 3rd Street, Everett, MA 02149	617-944-9255	info@unifiedcon.com bill@unifiedcon.com
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SECTION 32 93 00

PLANTING

PART 1 GENERAL

1.1 GENERAL PROVISIONS

A. Attention is directed to the AGREEMENT AND GENERAL CONDITIONS and all Sections within DIVISION 1, GENERAL REQUIREMENTS, which are made a part of this Section of the Specifications.

1.2 SUMMARY

A. Furnish all labor, material, equipment, and services required to install and maintain all plant material as specified. Section Includes:

1. Trees, plants, and ground cover
2. Mulch
3. Fertilizer, Compost and Compost Tea
4. Plant tagging
5. Staking and Layout
6. Pruning
7. Warranty
8. Maintenance

B. The contractor will be responsible for plant establishment maintenance for at least one year after final acceptance **for all plants and two years for all trees** and produce a maintenance manual prior to the beginning of the **one- and two-year** maintenance and warranty periods that is acceptable to the Owner's Representative. A park walk-through/review meeting is required at final acceptance with the Somerville Division of Public Space and Urban Forestry, the Department of Public Works, and a DCR Representative, and Landscape Architect at which all systems and maintenance plans will be reviewed and approved by the Somerville Department of Public Works and DCR staff prior to the maintenance and warranty period commencing. After the **one and two** year maintenance and warranty periods **have** been completed, and a **second and third** park walk-through/review meeting with the Somerville Division of Public Space and Urban Forestry, the Department of Public Works, and a DCR Representative, and the Landscape Architect will be made to review the work. The City and DCR will not assume maintenance of the Shore Drive Greenway until at which all maintenance and warranty work has been reviewed and accepted. Prior to final review and approval, the contractor will submit the final record of maintenance, recommendations for ongoing City-led maintenance and as-built drawings to the City.

C. Related Sections:

1. Section 31 20 00 – Earth Moving
2. Section 31 13 19 – Invasive Plant Removal
3. Section 32 91 15 – Planting Soils
4. Section 32 92 00 – Seeding

1.3 REFERENCES

A. AAN: "American Standard for Nursery Stock," ANSI Z60.1, latest edition.

- B. TCIA: Pruning Standards: "Standards for Pruning Shade Trees" and "Standards for Pesticide Application Operations" latest editions.
- C. USDA: Agricultural Research Service, "USDA Plant Hardiness Zone Map," Miscellaneous Publication No. 1475, latest edition.
- D. ANSI A300 - Tree Care Operations - Tree, Shrub and Other Woody Plant Maintenance - Standard Practices.
- E. Forest Stewardship Council:
 - 1. FSC Guidelines - Forest Stewardship Council Guidelines.

1.4 DEFINITIONS

- A. Weeds: Vegetative species other than specified species to be established in given area.
- B. Plants: Living trees, plants, and ground cover specified in this Section, and described in ANSI Z60.1.
- C. Saplings: Small tree under 6' HT when planted. Can be container grown or bareroot grown
- D. Subgrade: Soil level resulting from rough grading.

1.5 SUBMITTALS

- A. See Submittal Procedures for requirements for submittals.
 - A. Qualifications Documentation – Provide Documentation of Nursery, Installer and Supervisor qualifications- Company description, references, resumes and required interviews set up on site - See Section 1.8 'Qualifications':
 - 1. Horticultural Specialist Installation and Maintenance Contractor: A company description, list of at least 3 project locations with client references, and resumes of the supervisors and persons performing the work with previous experience, who will be on site at all times to perform the work See Section 1.8 'Qualifications' for requirements.
 - 2. Plant Source: Provide Documentation from nursery grower confirming plants, trees and shrubs materials sources for the project. Refer to parts 1.7, 1.8 and 2.1 of this Specification for requirements.
 - B. Plant List:
 - 1. Provide complete list of quantity, size, genus, species, variety of trees and shrubs and supplier, including if the plant has been grown from seed or a clonal cutting or division at least 30 days prior to the installation of the plantings.
 - C. Product Data:
 - 1. Organic Fertilizer and other accessories
 - 2. Tree Stakes & Tree Protection Mesh
 - 3. Mulch

4. Compost: Source of Compost and Soil Testing data from manufacturer (as specified in Section 329115 – Planting Soils)
5. Compost Tea: Product Data and Manufacturer & Applicator information
6. Erosion Control Material
7. Vegetation Protection Fencing
8. Coir Circles

D. Samples:

1. Mulch: Two cup sample of each type of mulch specified.

E. Tagging and planting schedule: Proposed dates for tagging plants at nurseries, and for planting each type of planting, with consideration for fall-hazard species, work coordination, etc. Owners Representative may observe plant material either at place of growth or first through photographs and then on site before planting for compliance with requirements for genus, species, variety, cultivar, size, and quality. Owners Representative may also observe trees and shrubs further for size and condition of balls and root systems, pests, disease symptoms, injuries, and latent defects and may reject unsatisfactory or defective material at any time during progress of work. Remove rejected trees or shrubs immediately from Project site.

F. Maintenance:

1. Instructions: Submit recommended procedures and detailed schedule proposed for routine year-round maintenance of plantings. Submit instructions as a condition of Substantial Completion of the Project.

1.6 CLOSEOUT SUBMITTALS

- A. At end of the one-year **and two-year** Maintenance Periods, provide photos of all planting beds to Owners Representative. Include documentation of accepted condition of planting after conclusion of Maintenance Period. All planting will need to pass all warranties as specified per review by Owners Representative.

1.7 QUALITY ASSURANCE

- A. Tree Pruning: ANSI A300 Pruning Standards for Woody Plants.
- B. All plants to comply with applicable requirements of ANSI Z60.1 "American Standard for Nursery Stock." latest edition, published by the American Nursery and Landscape Association Inc.
- C. Locate plant material sources well in advance of the project installation date to ensure that plants are shipped in timely fashion for installation. Plant trees during the same planting season they are dug. Do not use balled and burlapped and potted plant materials from cold storage.
- D. Plants to be grown within 400 miles of the project site under climatic conditions similar to those in the locality of the project. Use healthy nursery grown plants, free of disease, insects, and pests. Eggs or larvae and have a well-developed root system. Owners Representative reserves the right to reject any plant material not meeting this requirement. Refer to Section 2.1 for additional requirements.
- E. All plant species listed as straight species (and not a specific cultivar or variety) shall be propagated by seed and not substituted with a cultivar or variety propagated clonally. This requirement is to maximize genetic diversity of the plant material. Contractor is required to submit list of plants with their propagation method as described previously in Section 1.5

- F. Measurements: Measure trees according to ANSI Z60.1 with branches and trunks or canes in their normal position. Do not prune to obtain required sizes. Take caliper measurements 6 inches above ground for trees up to 4-inch caliper size, and 12 inches above ground for larger sizes. Measure main body of tree for height and spread; do not measure branches or roots tip-to-tip.
- G. If required, use only herbicides, pre-emergents, fertilizers, fungicides, and pesticides pre-approved and reviewed and approved by the Owners Representative and DCR Ecologist and permitted by state and local agencies. A portion of the site is under Conservation Commission Jurisdiction. Applications to be applied by licensed personnel according to manufacturer's recommendations.
- H. Do not use tree paint or tree wound dressing. Allow wound to heal and weather naturally, after trace cutting ragged or loose damaged bark back to live cambium.

1.8 QUALIFICATIONS

- A. Nursery: Within 400 miles of project site, specializing in growing and cultivating plants with three or more years' experience, refer to Section 2.1 for additional nursery requirements.
- B. Horticultural Specialist- Planting Installation & Maintenance Contractor: Contractor shall have a record of at least five projects of successful, detailed native species planting installation similar in scale and complexity to those required for this Project. Contractor must be prequalified by Owners Representative prior to work completion. Contractor must provide 3 project locations with client references including client's contact information of similar completed work for Owners Representative's review. Owners Representative will visit project sites that have been completed by the Planting Installation and Maintenance Contractor to inspect work and speak with project references to determine if the Contractor is prequalified for the work. Owners Representative reserves the right to reject proposed Contractors until demonstrated ability to perform work is found.
 - 1. Horticulture Team Leader (Field Supervisor): Maintain an experienced Massachusetts Certified Horticulturist (MCH), Massachusetts Certified Landscape Professions (MCLP), New England Organic Landcare Professional (OCLP) or equal with a minimum of 7 years of work experience in the horticulture field, supervisor on the project site during all times that landscape construction and maintenance is in progress. Individual must be able to properly identify all plants in the field with common and latin names. The Team Leader will be interviewed by the Owners Representative on site to determine if their plant and horticultural knowledge is sufficient to complete the work. Unfit supervisors will be rejected and must be replaced until a sufficient supervisor is found. Submit resume of supervisor for Owners Representative's approval as part of prequalification package described above. The Team leader must be present AT ALL TIMES on site during planting and horticultural maintenance activities and cannot be changed throughout the duration of the project. If Team Leader is changed, must be re-approved by the Owner's Representative as noted above. The Owners Representative has the right to reject any work not completed under the Planting Team Leader supervision. If the Planting Team Leader changes within the duration of the project, a new resume must be submitted and candidate interviewed for approval prior to work being completed in the field.
 - 2. Labor Force: must be thoroughly familiar with, and trained in, work to be accomplished and will perform the task in a competent, efficient manner acceptable to Owners Representative.
 - 3. Worker's Qualifications: The persons performing the planting and maintenance and their supervisor shall be personally experienced in the planting and caring of plant material and shall have been regularly employed by a company engaged in the planting and caring of plant material for a minimum of 2 years for workers, 5 years for supervisors.
 - 4. Work will be rejected if not completed by qualified, approved contractor and supervisor.
- C. Identification: Provide proper identification for landscape maintenance firm's vehicles and labor force. Be uniformly dressed in a manner satisfactory to OWNER Representative.

1.9 PRE-INSTALLATION MEETINGS

- A. With the Owner's Representative, Landscape Architect, Soils Installation Contractor, Planting Team Leader and Invasive Plant Management Team Supervisor, convene prior to commencing work of this section at the Project site to review landscape construction procedures, site conditions, and submittals required (including specific plant material sourcing and propagation requirements) in the Work of this Section before any products are submitted for review and approval, or landscape construction commences.

1.10 DELIVERY, STORAGE, AND HANDLING

- A. Do not order or deliver materials until required samples, certifications, manufacturers' literature and test results have been reviewed by the Owners Representative. Delivered materials must closely match the samples and test reports, as determined by the Owners Representative. If any deviations from specified plant materials are proposed, submit written request explaining differences and reasons for request.
- B. Wrap tree trunks with protective fabric during transport and delivery to storage. Remove wrap after planting to avoid accumulation of moisture on bark, which increases susceptibility to hidden insect infestation, and mold.
- C. Deliver organic fertilizer in original packaging showing weight, chemical analysis, and name of manufacturer.
- D. Protect and maintain plant life until planted.
- E. Deliver plant life materials immediately prior to placement. Plant within one week of delivery. If plants are to be stored at the site prior to planting, the contractor is responsible to ensure they are properly maintained, watered, and remain healthy. Set stored planting materials in shade, protect from weather and mechanical damage, and keep roots moist. Set balled stock on ground and cover ball with soil, mulch, or other acceptable material. Owners Representative has the right to full reject any plant materials that have been brought to the site and not fully watered and maintained or brought to the site more than 1 week prior to planting.
- F. Trees: Do not prune before delivery, except as directed by the Owners Representative. Protect bark, branches, and root systems from sun scald, drying, sweating, whipping, and other handling and tying damage. Do not bend or bind-tie trees or shrubs in such a manner as to destroy natural shape. Provide protective covering during delivery. Do not drop trees during delivery.
- G. Handle balled and burlapped stock by the root ball.
- H. Plant material damaged as a result of delivery, storage or handling will be rejected.

1.11 ENVIRONMENTAL REQUIREMENTS

- A. Weather Limitations: Proceed with planting only when existing and forecasted weather conditions permit. Submit to the Owners Representative in writing the proposed planting schedule. Obtain approval of planting schedule from the Owners Representative and Owner's Representative prior to performing any work.
- B. Planting and Mulch Restrictions:
 1. Do not install plant life when ambient temperatures may drop below 35 degrees F or rise above 90 degrees F.

2. Do not install plant life when wind velocity exceeds 30 mph.
3. Plant only when adequate water is available for immediate watering of plants after initial installation and after ongoing maintenance schedule has been approved by the Owners Representative.
4. Planting under frozen conditions in either the spring or fall will not be permitted.
5. Coordinate installation of planting materials to assure installation during normal planting seasons for each type of plant material required and as specified in the planting schedule. Plant species designated as "Fall Hazard" by Nursery in the Spring, indeterminate of other site and project schedules. Show this information on the planting schedule required by Section 1.5 where applicable.
6. **Planting will only be allowed during the following Seasonal Planting Windows. Ensure that other work on site is coordinated to allow for planting during one of the following windows:**
 - a. **Spring Planting: Deciduous materials - March 21 through May 1; Evergreen materials - April 15 through June 1.**
 - b. **Fall Planting: Deciduous materials – September 15 through December 1; Evergreen materials - August 15 through October 15.**
 - c. Pay very careful attention to coordination other work with the planting installation windows and with the installation timeframes for the seeded areas and soil placement. The seeded areas may only be installed in a small window timeframe as detailed in Section 32 92 00 – Seeding
 - d. Planting season may only be extended with written permission of Owner's Representative. Plant material **warranty** shall be honored regardless of extended planting season.
- C. Summer digging of trees is not permitted. Coordinate schedule for planting, so that summer digging and substitutions of species that are fall hazards (fall digging/planting) does not occur.
- D. Antidesiccant application shall occur on a sunny day when temperatures are above freezing, and precipitation is not forecasted within 24 hours. Spray all evergreens planted on site with anti-desiccant twice during **each year of the associated** Warranty Period, once in late fall (November or early December) and once in mid-winter (February or early March.)
- E. Coordinate planting Work with other Work being performed on site, or work being performed by others.

1.12 WARRANTY

- A. Furnish **two-year warranty** for **all** trees, **and a one-year warranty** for all plants, and groundcovers against defects including death and unsatisfactory growth, except for failures due to vandalism, and acts of God, during the Warranty Period. Report such conditions in writing. The date of Final Acceptance of all completed planting work as determined by the Owners Representative in writing establishes the end of installation, the beginning of the Maintenance Period and the commencement of the Warranty Period.

- B. Remove and replace dead planting materials immediately unless required to plant in the succeeding planting season.
- C. Replace planting materials that are more than 25 percent dead or in an unhealthy condition at end of the Warranty Period.
- D. The Contractor must weed (hand pull) or spot spray with approved herbicide (only if approved by Conservation Commission Order of Conditions and DCR Ecologist) any plants out of the planted areas that are not specified in the plans and specifications. Provide the necessary corrective measures to remove and control the spread of weedy plant species. Annual weed species shall be cut (to manage future spread of seeds) where perennial weed species shall be spot treated with herbicide wherever possible and only hand pulled where herbicide is not allowed. The Horticulture Team Supervisor (approved by the LA and Owner with prior horticultural experience) must be the individual completed this work.

1.13 MAINTENANCE SERVICE

- A. Maintain plant life immediately after placement. Maintenance Period: Continue maintenance for **two years for all trees and** one year **for all plants** after date of final acceptance and until termination of the Warranty Period
- B. General Contractor shall provide the services of a Horticultural Specialist for the **entire** guarantee period to oversee all maintenance activities within all horticulture areas (all planting within project limit of work). Horticulturalist shall meet with the City's Public Space and Urban Forestry (PSUF) staff, three times **per** year, to review the condition of these planting areas and develop a list of tasks to be performed.
- C. Supervision: The maintenance supervisor must be on site during maintenance activities and directly supervise work force. Notify Owners Representative of changes in supervision.
- D. Site Visits: At beginning of Maintenance Period, visit and walk site with Owners Representative to clarify scope of maintenance work and understand existing project/site conditions. Schedule three follow-up visits during **each year** of Maintenance Period with Owners Representative, PSUF Staff, and Landscape Architect to review and check of the work.
- E. Maintenance includes but is not limited to:
 1. Watering: Contractor is responsible for hand watering all plantings through the warranty period. Self-watering tree bags must be filled by the Contractor at a frequency to have water in the bags during the growing season at all times. Contractor is responsible for supplying water as needed in water trucks. Contractor shall include the cost of any materials hoses, watering supplies and labor needed to properly water all plants through establishment.
 2. Water Monitoring and Adjustments – Ensure watering strategy is sufficient to saturate root system. Monitor and adjust watering schedule as necessary. **During plant** establishment, check for moisture penetration throughout root zone to 6" at least once a week. If watering schedule is not properly watering planted areas, supplemental hand-watering must be completed and adjusted by contractor to ensure plants are appropriately watered. Owners Representative has the right to reject any plants that have not been watered per this specification throughout the entirety of the contract, Maintenance and Warranty Period, even if plants are still alive at the final Warranty walk-through.
 3. All planted and seeded areas including all lawns and restoration areas on site shall remain weed-free. Annual weeds shall be controlled by string trimming (to prevent seed from developing) and perennial weeds shall be controlled by spot-application of approved

herbicides. All areas must remain weed free at all times. Where specified plants are self-seeding, review maintenance strategy with Owners Representative. Do not pull self-seeded plants of species planted in project unless directed by Owners Representative. This work must be completed by the Horticultural Team Supervisor.

- a. Note: horticulturists must be able to demonstrate the ability to differentiate between weeds and intentional plantings.
4. Cutting back ornamental grasses and forbs (Pollinator Patches and Meadow Restoration)- do not cut back ornamental grasses and forbs prior to the winter. Up to 1/3 of the plant around the edges may be cut to make a neat appearance and to prevent flopping into walkways. In spring, no more than 50% of the previous year's growth should be cut back lower than 18" prior to May 1st. Ideally edges are cut back in early spring, and center is left tall until May 1st when the other 50% of the planting may be cut back after May 1st (after pollinators have emerged). Cut areas should be rotated seasonally when possible on a 2 year cycle to support pollinators that reproduce over longer timeframes.
5. String Trim at the base of all railings and fences to a 4" ht at all times. Any railings or fences where weeds are allowed to grow or string trimming is not completed and vegetation maintained at 4" ht can be rejected and complete soil and seed replacement required. Any perennial weeds must be spot sprayed with herbicide.
6. Pruning, including removal of dead or broken branches. The pruning work shall only be completed under the direction of a certified arborist. Refer to Section 01 56 39.
7. Deadheading of spent flowers only after they have gone to seed, under the direction of the Owners Representative.
8. Apply disease and insect control only if required and with Owners Representative's permission. Only products approved by local and state jurisdictions, including the Conservation Commission (if applicable) and the Owners Representative are permitted.
9. Replacement of mulch in planting areas where specified. Mulch must be replaced in full at the end of the warranty period prior to turning the project over to the Owner.
10. Removal of trash within all new planting areas at all times. Trash pickup shall be completed at a minimum of every two weeks withing the Maintenance Period. Dog feces within the limit of work must also be picked up and removed as part of this service.
11. Dispose of pruned materials, sweep walkways and rake smooth mulched areas. All spring and fall cleanups must be done in a timely manner to keep the walking paths and lawns free of leaves and natural debris. Leaves shall remain in the restoration areas and planting beds after a fall cleanup and shall be shredded to create a uniform mulch. Blow leaves from the walkways and lawn areas into the woodland for shredding near pedestrian walkways. Remove all trash and evidence of pruning maintenance activities at the end of each maintenance visit.
12. Application of Compost Tea per specifications 2x **at all plantings and 3x at all trees** during maintenance period- one time within two weeks after planting and one additional time during one year maintenance period growing season **at all plantings. Provide a third application during second year maintenance for all trees.**
13. Application of Anti Desiccant per specifications 2x during **each year of** maintenance period- once in late fall (November or early December) and once in mid-winter (February or early March.)

14. Remove visible Erosion Control Materials where they are no longer needed at the end of the Warranty Period only once first approved by City and DCR as acceptable by the Conservation Commission.

PART 2 PRODUCTS

2.1 TREES, PLANTS, AND GROUND COVER

- A. The Contractor shall furnish and plant all plant materials as shown on the plans and in the quantities and sizes listed thereon. No substitutions shall be permitted without the written approval of the Landscape Architect (LA)/ City Project Manager (PM).
- B. Plants larger than those specified in the Plant List may be used if approved by the LA/PM. However, use of such oversized plants shall not be considered grounds for any increase in the contract price. If the use of larger plants is approved, the required spread of roots or ball of earth shall be increased in proportion to the size of the plant and plant beds shall be increased as necessary.
- C. All plants shall be certified to have passed all required Federal and State inspection laws ensuring freedom from plant diseases and insect infestations. The Contractor shall obtain clearance from applicable governing agencies, as required by law, before planting any plants delivered from outside the state in which they are to be planted.
- D. All plants shall be nursery-grown under climatic conditions and environmental stresses similar to those in the locality of the project. All plants shall originate from nurseries that are no more than one Hardiness Zone higher (as established by the Arnold Arboretum, Jamaica Plain, MA) than where the plant is to be installed. Plants also shall conform to the botanical names and standards of size, culture, and quality for the highest grades and standards as adopted by the American Hort in the American Nursery Stock Standard, Z60.1, latest edition. All plants shall be legibly tagged with their proper botanical name.
- E. Because of the harm to pollinators that the use of neonicotinoids in plants causes, the City prefers trees that have not been treated with neonicotinoid insecticides; whenever possible, Contractor shall source trees from nurseries that do not use neonicotinoids. The City shall provide Contractor with a list of vendors known not to use neonicotinoids.

All native shrubs, perennials, grasses, and annuals shall be neonicotinoid-free. Plants can be sourced from the provided neonicotinoids-free vendor list or from a nursery that provides a letter stating they do not use neonicotinoids. That letter must be provided to City staff prior to confirming a plant purchase.

Plants may be sourced from a nursery known to use neonicotinoids only when the contractor has used due diligence to show that the plant or quantities of that plant cannot be sourced otherwise. Due diligence shall be defined as proof of insufficient supply from contacting five nurseries on the neonicotinoid-free vendor list

- F. No heeled-in plants or plants from cold storage shall be used. All plants shall be typical of their species or variety and shall have a normal habit of growth. Plants shall be sound, healthy, and vigorous, well branched and densely foliated when in leaf; shall be free of disease, insects, eggs or larvae; and shall have healthy, well-developed root systems. All parts of the plant shall be moist and shall show active green cambium when cut.

G. All plants shall be grown within 400 miles of project site to maximum extent feasible. If a re-wholesaler is used for providing the nursery stock, the original grower shall be within 400 miles of the project site, and the original grower source shall be submitted for each plant species. Submit any hardship requests at least three months prior to planting. Final Acceptance will not be granted until all plant materials meeting the criteria of this section are installed.

H. Planting Stock:

1. Species: In accordance with Standardized Plant Names, official code of American Joint Committee on Horticulture Nomenclature.
2. Identification: Label individual plants or each bundle of plants when tied in bundles.
3. Plants: No. 1 Grade conforming to "American Standard for Nursery Stock" of American Association of Nurserymen (AAN); well-branched, vigorous and balanced root and top growth; free from disease, injurious insects, mechanical wounds, broken branches, decay and other defects.
4. Trees:
 - a. Furnish with reasonably straight trunks, well balanced tops, and single leader.
 - b. Shade Trees: Single-stem trees with straight trunk, well-balanced crown, and intact leader, of height and caliper indicated, conforming to ANSI Z60.1 for type of trees required.
 - c. All trees planted in Verge (strip of planting between roadway and shared use path), or within 10'-0" of any site walkways or pedestrian areas, to have a 6'-0" minimum standard lowest branching height.
 - d. Provide balled and burlapped trees, unless otherwise indicated on Drawings.
5. Landscape Plugs: Minimum of 2" wide and 4" deep have a minimum soil volume of 11 cubic inches with a tapered root growing cell to prevent root circling.

- I. Trees Plants and Ground Cover: Species and size identifiable in plant schedule, grown within 400 miles of the project site in climatic conditions similar to those in locality of the Work. All plant species listed as straight species (and not a specific cultivar or variety) shall be propagated by seed and not substituted with a cultivar or variety propagated clonally. This requirement is to maximize genetic diversity of the plant material. All herbaceous plant material shall be propagated from seed unless plant material is deemed unavailable by the Owners Representative. Contractor is required to submit list of plants with their propagation method as described previously in Section 1.5.
- J. Condition of Root System: Completely free of circling, kinked or girdling trunk surface and center roots and show no evidence of a pot-bound condition. Upon inspection by Owners Representative at job site, if 5% or more of plants of each species are found to contain kinked, circling or girdling roots, plants of that species will be rejected.

2.2 PLANTING AMENDMENT MATERIALS

- A. All sands, compost and soil amendments proposed for use on the project must be tested for the requirements specified for those items and submitted for review and approval per Section 32 91 15 Planting Soils
- B. Soil Additives: Apply soil additives to soil mixes to meet nutrient and pH recommendations provided by the soil testing agency. All additives must be from organic sources, OMRI certified. Do not provide fertilizer amendments manufactured from petroleum.
- C. Bone Meal: Raw, finely ground, commercial grade, minimum of 3 percent nitrogen and 20 percent phosphorous.

D. Lime: Ground limestone, dolomite type, minimum 95 percent carbonates.

2.3 MULCH MATERIALS

A. Coarse Wood / Bark Mulch:

1. Mulch shall be high quality, double-ground, premium bark mulch of hemlock bark, spruce and pine bark. Mulch shall have been aged for a minimum of six months and not longer than two years.
2. Bark mulch shall be shredded to a uniform size; free of dirt, debris and foreign matter; with pieces no thicker than 1/4 inch. Mulch must be free of stringy material or chunks over 3 inches in size and shall not contain, in the judgment of the Architect, an excess of fine particles.
3. Mulch shall not contain any dyes.
4. Submit sample for the Architect approval.

B. Composted Leaf Mulch:

1. Composted leaf mulch, free from deleterious materials and suitable as a top dressing of trees and shrubs meeting the following requirements:
2. Dark brown in color, free of chunks and pieces of wood thicker than one quarter inch, stringy material over four (4) inches in length, and chunks over three (3) inches in width.
3. Does not have an unpleasant odor nor have any evidence of fungus growth.
4. Do not use bark mulches or other hardwood or dyed mulches.
5. Approved Products (or approved equal):
 - a. Cavicchios Greenhouses, Sudbury- Composted Leaf Mulch
 - b. Sam White and Sons, Newton- Composted Leaf Mulch
 - c. Brick End Farms- Composted Leaf Mulch

2.4 FERTILIZATION AND MAINTENANCE

A. Pre-plant fertilizer: Apply per manufacturer's specifications at time of installation.

1. For all trees, shrubs, and perennials, amend each plant with an organic pre plant fertilizer below (or equal):
 - Healthy Start 3-4-3
 - Espoma Plant Tone 5-3-3
 - North Country Organics Pro-Start 2-3-3

B. Do not use insecticides unless specifically approved by the Owners Representative.

C. Compost Tea: Aerated or vortex blend compost tea brewed with compost with at least 300 lbs per acre of biologically available nitrogen as tested by approved facility. Specific compost tea brew should be matched to benefit the plant community application (seeded areas, live plants, etc.) Apply at time of install and again one more time during the next year of plant establishment. **Provide a third application at all trees during the second year of maintenance.**

1. Approved Compost Tea providers (or equal)

- a. Compostwerks Compost Tea
- b. Mayer Tree Company Compost Tea
- c. Brick's Ends Farm Compost Tea

D. Anti-desiccant: emulsions or materials which provide a protective film over plant surfaces permeable enough to permit transpiration and specifically manufactured for that purpose. Antidesiccant shall be delivered in manufacturer's containers and used according to manufacturer's instructions. Provide Wiltpruf www.wiltpruf.com, TransFilm Anti=Transpirant, SPC Vapo-Guard Anti-Transpirant (or equal)

2.5 ACCESSORIES

- A. Wrapping Materials: Burlap.
- B. Plant Protectors: Rubber sleeves over cable to protect plant stems, trunks, and branches during shipping.
- C. Tree Stakes & Tree Protection
 1. 2" or smaller Tree Saplings: Utilize two, Natural Bamboo stakes in heights indicated on drawings x approx. 1.25" dia per tree with non-adhesive Vinyl Tree Tape (or equal) to secure tree in place for stability. Provide Leonard Mesh Panel Tree Guard (or equal), HDPE, 15" dia x 48" HT with 1 3/8" diamond shape openings to completely surround each tree to protect from deer and rabbit browse
 2. For all trees and shrubs observed to be experiencing any wildlife browse (throughout installation and maintenance periods), provide Leonard Mesh Panel Tree Guard (or approved equal), HDPE, 15" dia x 48" HT with 1 3/8" diamond shape openings to completely surround each plant to protect from deer and rabbit browse.
 - a. Note that restoration area plants, at a minimum, will need protection (at time of planting). It is likely that other plants in the planting plan will also need protection, the extents to be determined on site with LA.
 3. For all other Trees, Tree stakes are required for all deciduous trees. The following tree stakes shall be utilized:
 - a. Utilize Two to Three, 8' HT unfinished, un-peeled Cedar stakes (natural finish with bark still attached) x approx. 2-3" dia per tree with Arborties to secure tree in place for stability as required for tree to stay plumb. Any trees that do not stay plumb will be required to be replaced by the Contractor.
- D. Self-Watering Tree Bags: Provide (2) standard, 20-gallon, self-watering tree bags with a green or black color, on each deciduous tree (one on each stake) and (1) standard self-watering tree bag per sapling. Manufactured by King Innovation, Tree Diaper, Arbor Rain or approved equal.

2.6 EROSION-CONTROL MATERIALS

- A. Erosion-Control Fiber Mesh: Biodegradable twisted 100% jute, natural color, 0.87 lb./sq. yd., Include manufacturer's recommended staples, 6 inches long. Provide at all areas 3:1 or steeper.

2.7 WATER

- A. The Contractor shall be responsible to furnish their own supply of water to the site. All work injured or damaged due to the lack of water, or the use of too much water, shall be the Contractor's responsibility to correct. Water shall be free from impurities injurious to vegetation.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify existing conditions before starting work.
- B. Utilities: Contact all relevant utility companies, public or private, prior to beginning work. Review the locations of utilities with the Owners Representative before proceeding. Report any conflicts to the Owners Representative before excavating. Perform all work to avoid damage to above and below grade utilities. Hand excavate as required.
- C. Determine the full extent of Work required, including but not limited to the potential need for storing and maintaining plants temporarily and re-handling plants prior to final installation.
- D. Inspect all areas to be planted before starting any landscape Work and report any defect, such as incorrect grading, incorrect subgrade elevations, or drainage problems, etc., to the Owners Representative prior to beginning Work. Do not proceed with installation until all unsatisfactory conditions have been corrected. Commencement of Work indicates the Contractor's acceptance of site conditions and filled subgrade material in areas to be planted, and the Contractor assumes responsibility for Work.
- E. Verify required underground utilities are available, in proper location, and ready for use.

3.2 PLANTING PREPARATION

- A. Verify that all soil areas are prepared according to Section 31 91 15 – Planting Soils.
- B. All plant layout and actual planting locations are to be laid out in field by the Contractor and approved by the Owners Representative prior to any planting. Where exact plant locations are not noted on the drawings, provide marking spray and stakes on site in appropriate quantities for Owners Representative to layout the locations in the field. Notify the Owners Representative at a minimum of 5 business days in advance prior to scheduling the layout in the field. All Perennial, groundcover and shrub mixes shall be laid out in the field by the Contractor with spray paint and shall be approved by the Owners Representative. Any plants planted without the layout approved by the Owners Representative shall be removed and replanted in acceptable locations as deemed necessary at no additional expense to the Owner.
- C. Provide erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways. Install Erosion-Control Fiber Mesh in all planting bed and seeded areas with slopes at or exceeding 4:1 (H: V), installed and stapled according to manufacturer's written instructions. Mesh shall be installed prior to planting and seeding.

3.3 PLANTING-BALL AND BURLAP TREES AND SHRUBS, AND SAPLINGS

- A. Stake the locations of B&B materials to be installed for review by Owners Representative. Do not install any plants without the layout approved by the Owners Representative in the field.
- B. Set balled and burlapped stock plumb and in center of pit or trench with top of ball to match the finish grade within one (1) inch.

- C. Remove all burlap, twine and wire baskets from tops and sides of rootball.
- D. Do not use planting stock if ball is cracked or broken before or during planting operation.

3.4 PLANTING – PERENNIALS

- A. Outline with chalk marking spray the areas of container plants to be installed for review by Owners Representative. Do not install any plants without the layout approved by the Owners Representative in the field.
- B. Remove the plant from the pot and loosen or score the roots before planting to promote outward root growth into the soil.

3.5 PLANTING – PLUGS

- A. Outline with chalk marking spray the areas of plugs to be installed for review by Owners Representative. Do not install any plants without the layout approved by the Owners Representative in the field.
- B. Plant upright and not at an angle.
- C. Dig planting holes large enough and deep enough to accommodate the entire root mass.
- D. Plant plugs with no twisted or balled roots and with no roots exposed above the grade line.
- E. Hand pack the soil around the entire plug root mass.

3.6 PLANTING

- A. Plant all trees, shrubs, and groundcovers as indicated on Drawings and as specified below.
- B. Place plants for best appearance for review and final orientation by Owners Representative. Do not install any plants without the layout approved by the Owners Representative in the field.
- C. Dig the planting hole to the same depth as the root ball and two to three times wider.
- D. Score all sides of the hole, place the plant in the hole so the top of root ball is even with soil surface.
- E. Set plants vertical.
- F. Place backfill around plant roots in layers, gently tamping to settle backfill and eliminate voids and air pockets. Add preplant fertilizer within backfilled hole.
- G. Saturate soil with water when pit or bed is half full of soil and again when full. Repeat watering until no more is absorbed. Water again after placing and tamping final layer of backfill.
- H. For trees, no saucers shall be constructed with earth at the base of the plant unless created temporarily for initial watering.
- I. Remove all plant tags and flags from the plants.

3.7 TREE STABILIZATION

- A. Install Tree stakes and self-watering bags per manufacturer's instructions. Install Tree Stakes and Tree Protection Mesh on Tree saplings.
- B. Maintain all plants in plumb condition and in order to withstand the environmental conditions of the site. Contractor is required to provide as many tree stakes as necessary to keep plant materials in a plumb condition.

3.8 MULCHING & COIR PROTECTION

- A. Mulch backfilled surfaces of tree pits, beds, and planted areas, only in Planting Beds indicated in the Drawings.
- B. Where mulch is shown in the drawings, apply 3 inches thick.
 - 1. Install Bark Mulch only at trees, per drawings.
 - 2. Install Composted Leaf Mulch at plant beds that do not receive seed, per drawings.
- C. Do not place mulch against trunks or stems.
- D. Install Coir Protection circles around the base of all tree saplings and all 1-gallon shrubs and trees installed in the restoration area.

3.9 CLEANUP AND PROTECTION

- A. During landscape work, keep pavement clean and work area in an orderly condition.
- B. Protect landscape work from damage due to landscape operations, site work by others and erosion /sedimentation. Maintain protection during installation and maintenance periods. Repair or replace damaged landscape work as directed by the Owners Representative.
- C. Install New Planting Protection fencing as shown in the drawings once the plantings and seeding on site is fully completed, per Section 32 92 00. Maintain protection fencing throughout the duration of the warranty period.
- D. Repair damage to site or structures to restore them to their original condition.

3.10 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus soil and waste material, including excess topsoil, subsoil, plant material, unsuitable soil, trash, and debris, and legally dispose of it off the Owner's property.

3.11 FIELD QUALITY CONTROL

- A. Plants will be rejected when ball of earth surrounding roots has been disturbed or damaged prior to or during planting.
- B. All plant layout and final plant locations are to be field verified by the Owners Representative prior to planting.
- C. During the landscape installation, periodic field visits to be performed by the Owners Representative at specific installation milestones as agreed upon during the pre-construction meeting or as indicated on the Drawings.

3.12 FINAL ACCEPTANCE OF LANDSCAPE WORK (To begin commencement of Maintenance and Warranty Periods)

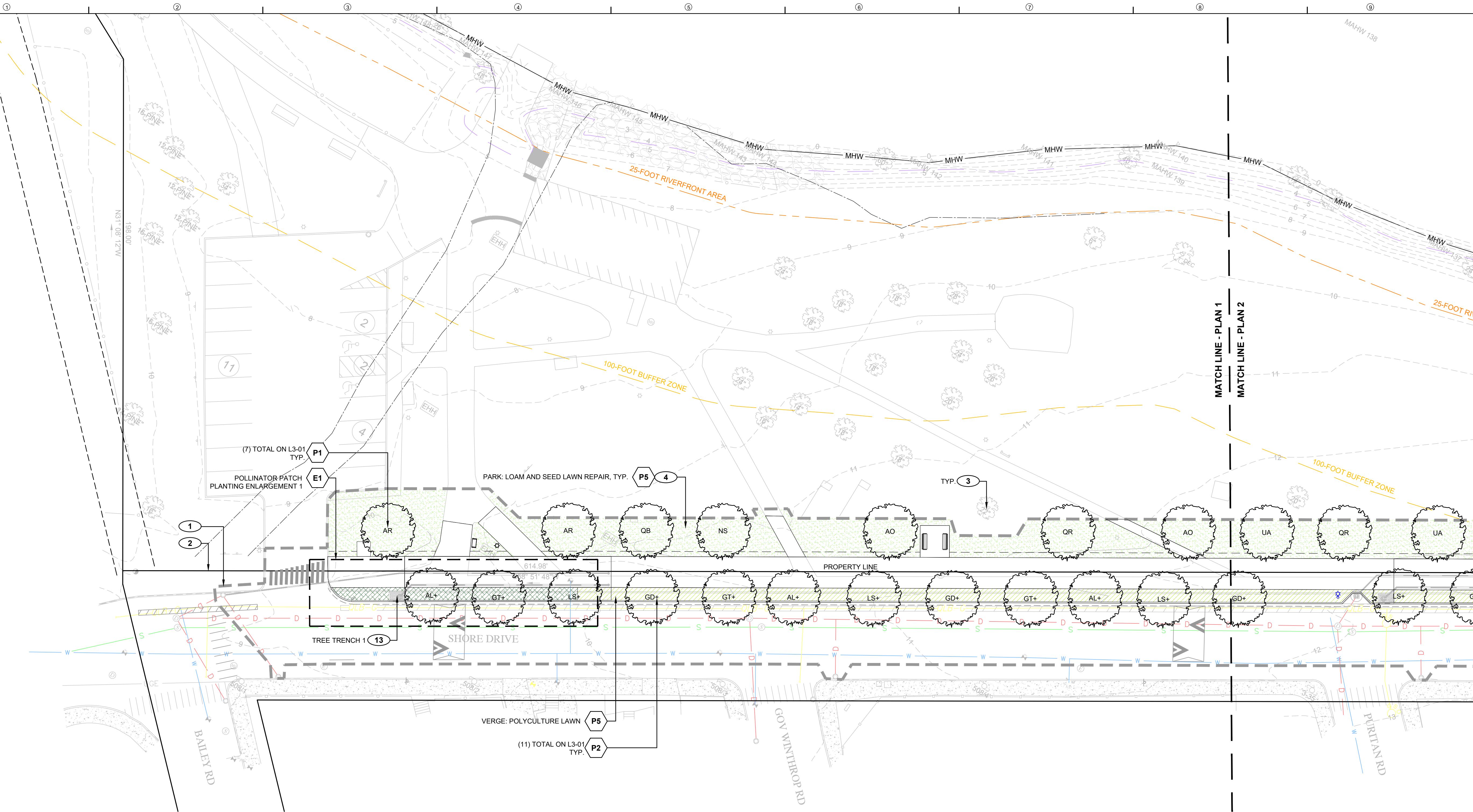
- A. Submit a written request for review of the completed work to the Owners Representative at least 48 hours before the anticipated dates of requested field visits.
- B. Request an acceptance of the landscape work only after all aspects of landscape operations are completed and maintained according to specifications, all test results are completed and acceptable, and all extraneous equipment, materials and debris are removed from the Project Site.
- C. The Owners Representative is to review the work with the Contractor present.
- D. A written report, or "punch list," is issued by the Owners Representative indicating remedial items to be corrected before Final Acceptance is authorized.
- E. Acceptance: Acceptable plants are those that are to size and species as indicated on the Drawings or accepted by the Owners Representative and meet the following requirements:
 1. At least 85% live growth with actively growing or possessing live buds.
 2. No indication of injury, disease, insect infestation, or decline due to environmental or other factors.
 3. Properly planted and installed plumb.
 4. Properly mulched.
 5. Rootballs moist.
 6. No weed species or Invasive species present in the planting area.
- F. All unsatisfactory plants are to be removed promptly. Replacement plants must conform in all respects to specifications for the originals and must be planted and maintained in same manner until initial acceptance is made.
- G. Repeat field visit request and procedures only when all remedial items included on the "punch list" are completed.
- H. The end of the installation and commencement of the Maintenance Period and Warranty is established upon the date of final acceptance of completed remedial work.
- I. A park walk-through/review meeting is required at final acceptance with the Somerville Division of Public Space and Urban Forestry, the Department of Public Works, and a DCR Representative, and Landscape Architect at which all systems and maintenance plans will be reviewed and approved by the Somerville Department of Public Works and DCR staff prior to the maintenance and warranty period commencing.

3.13 PLANT ESTABLISHMENT PERIOD, WARANNTY, AND FINAL INSPECTION

- A. Upon commencement of the Warranty Period, the Contractor is responsible for the oversight of the one (1) year plant **and (2) year tree** Warranty and Maintenance Period as outlined in the specifications.

- B. Complete all items on the “punch list” to the satisfaction of the Owners Representative before the one-year plant **and two-year tree** establishment period (Warranty Period) can commence. Warranty specified herein does not deprive the Owner of other rights it may have under other provisions of Contract Documents and is in addition to, and runs concurrent with, other warranties made by Contractor under requirements of Contract Documents.
- C. The Warranty Period for the **trees is (2) two years and** plantings is for one (1) year after date of final acceptance. During Warranty Period, make monthly inspections of plant material during April through November to document condition of plants and to provide remedial measures. Continue maintenance as specified. Dead plants and plants with less than 85% live wood noted in inspections are to be replaced with new plants of same size and species within one (1) month or in first month of next growing season, whichever comes first. Install replacement plants according to the Drawings and Specifications.
- D. Notify both the Owners Representative at least ten days in advance of requested date of inspection at end of one-year **and two-year** Warranty Periods.
- E. All plants **(including trees)** will be inspected by the Owners Representative with the Contractor present one year after Final Acceptance. **Trees will be inspected again by the Owner's Representative with the Contractor present two years after Final Acceptance.** All plants must be alive and with satisfactory growth at the end of that time. Reset or replace trees, which have settled out of plumb.
- F. The following must be completed at the end of the Warranty Periods:
 - 1. Remove all staking material from plants.
 - 2. Re-mulched and weed as necessary.
 - 3. Prune and remove plant dead wood.
 - 4. Install plant replacements.
 - 5. Removal of Vegetation Protection Fencing.
 - 6. Remove gator bags if requested by the Owner's representative.
- G. If in the Owners Representative's opinion, a substantial amount of planting, materials or landscape work is deficient, the Contractor's Maintenance Period of all work is extended until plant replacements are made or other deficiencies are corrected and plant are maintained for 3 months of additional growing season time after their installation to ensure establishment.

END OF SECTION



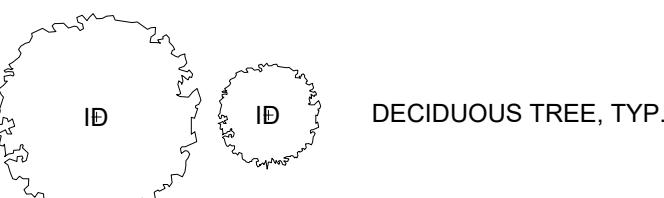
PLANTING NOTES:

- REFER TO L3-06 PLANTING SCHEDULE FOR SPECIFIED PLANT SPECIES, SIZES, AND QUANTITIES.
- VERIFY ALL EXISTING TREES TO REMAIN IN FIELD WITH LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE PRIOR TO START OF ANY WORK.
- PROVIDE TWO STAKES AND TWO TREE GATOR WATER BAGS ON EACH NEW TREE AND COORDINATE FUTURE FILLING OF BAGS WITH MAINTENANCE TEAM. CONTRACTOR RESPONSIBLE FOR FILLING BAGS AND WATERING DURING CONSTRUCTION AND WARRANTY PERIOD.
- LANDSCAPE ARCHITECT TO APPROVE PLANT MATERIAL PRIOR TO DELIVERY TO SITE AND AGAIN AT SITE PRIOR TO PLANTING. NO SUBSTITUTIONS OF PLANT SPECIES OR VARIETIES WITHOUT LANDSCAPE ARCHITECT'S WRITTEN APPROVAL.
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- THE CONTRACTOR SHALL SUPPLY ALL NEW PLANT MATERIAL IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING SHOWN ON THE DRAWINGS.
- IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR BETWEEN THE PLANT MATERIALS LIST AND THE DRAWINGS, THE HIGHER NUMBER OF PLANTS SHALL GOVERN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL STAKE OR LAYOUT THE LOCATIONS OF ALL PROPOSED PLANTING FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF PLANTING. ANY PLANT LOCATIONS NOT INDICATED ON THE DRAWINGS SHALL BE LAID OUT IN FIELD BY LANDSCAPE ARCHITECT.
- LOCATE AND VERIFY UTILITY LOCATIONS PRIOR TO STAKING AND REPORT CONFLICTS TO OWNER'S REPRESENTATIVE.
- STAKE OUT PLANTS IN THE APPROXIMATE LOCATION, ADJUST LOCATIONS OF STAKES AS DIRECTED BY OWNER'S REPRESENTATIVE. NO PLANT INSTALLATION SHALL TAKE PLACE PRIOR TO LAYOUT APPROVAL BY LANDSCAPE ARCHITECT.
- PLANT UNDER FULL SUPERVISION OF CERTIFIED ARBORIST, MICH, OR APPROVED EQUAL DESCRIBED IN THE SPECIFICATIONS. PROVIDE WRITTEN VERIFICATION OF CERTIFICATION AND/OR LICENSE FOR OWNER'S REPRESENTATIVE APPROVAL.
- INSTALL ALL PLANT MATERIAL PER SPECIFICATIONS. REFER TO PLANTING DETAILS ON L4-03.
- WATER PLANTS THOROUGHLY AFTER INSTALLATION, A MINIMUM OF TWICE WITHIN THE FIRST 24 HOURS. RAISE AND REPLANT ANY PLANTS THAT SETTLE AFTER PLANTING AND WATERING.
- PROVIDE 3" DEPTH BARK MULCH AT ALL TREES IN A 4' DIAMETER CIRCLE.
- PROVIDE 3" OF COMPOSTED LEAF MULCH AT POLLINATOR PATCHES.
- DO NOT PROVIDE MULCH IN PLANT BEDS TO RECEIVE OVERSEED.
- CONTRACTOR TO REPAIR ANY DAMAGE TO ADJACENT AREAS DUE TO OPERATIONS INSIDE AND/OR OUTSIDE OF LIMIT OF WORK.
- REFER TO L2-00 SERIES FOR SOIL PLANS.
- INCLUDE 1 YEAR OF PLANT MAINTENANCE AND WARRANTY. SEE SPECIFICATIONS.
- FOR ALL TREES, INCLUDE AN ADDITIONAL YEAR OF MAINTENANCE AND WARRANTY FOR A TOTAL OF 2 YEARS. SEE SPECIFICATIONS.
- CONTRACTOR SHALL CARRY AN ALLOWANCE TO REPLACE ANY PLANTS THAT ARE IMPACTED DUE TO HERBIVORY DURING WARRANTY PERIOD.

PLANTING HATCH LEGEND:

VERGE: POLLINATOR PATCH
VERGE: POLYCULTURE LAWN
PARK: VEGETATED SLOPE RESTORATION MIX
PARK: LOAM AND SEED LAWN REPAIR
PARK: NATIVE MEADOW RESTORATION

PLANTING SYMBOL LEGEND:



ENLARGEMENT KEYNOTES:

E#	SITE ENLARGEMENTS
E1	POLLINATOR PATCH PLANTING ENLARGEMENT 1 1/L3-05
E2	POLLINATOR PATCH PLANTING ENLARGEMENT 2 2/L3-05
E3	POLLINATOR PATCH PLANTING ENLARGEMENT 3 3/L3-05
E4	POLLINATOR PATCH PLANTING ENLARGEMENT 4 4/L3-05
E5	VEGETATED SLOPE RESTORATION ENLARGEMENT 5/L3-05

PLANTING DETAIL / KEYNOTES:

P#	PLANTING	1/L4-03
P1	TREE PLANTING	1/L4-03
P2	TREE PLANTING IN VERGE	2/L4-03
P3	SHRUB PLANTING	3/L4-03
P4	PERENNIAL PLANTING - CONTAINER	4/L4-03
P5	SEEDED PLANTING	5/L4-03
P6	TEMPORARY SEED PROTECTION FENCE	6/L4-03

SITE NOTES:

- LIMIT OF WORK
- PROPERTY LINE
- EXISTING TREE TO REMAIN - SEE EROSION AND SEDIMENT CONTROL PLANS FOR PROTECTION
- DISTURBED AREAS OF EXISTING LAWN TO BE REPLACED IN KIND WITH LOAM AND LAWN SEED TO MATCH CURRENT CONDITION
- SEDIMENT FOREBAY AND TREE TRENCH, SEE CIVIL DRAWINGS
- NATIVE MEADOW RESTORATION, PER SPECIFICATIONS

SHORE DRIVE GREENWAY

SOMERVILLE, MASSACHUSETTS



STAMP:

ISSUE DATE:

REVISIONS	#	DATE	DESCRIPTION
1	2/12/2026		UPDATED TREE WARRANTY

DRAWN: CAU REVIEWED: SCH

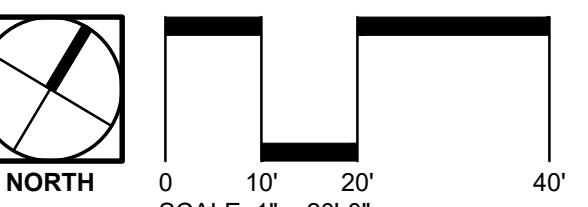
BID SET

JANUARY 30, 2026

PLANTING PLAN 1

SHEET NUMBER

L3-01



Client: **Mystic River WATERSHED ASSOCIATION**
Mystic River Watershed Association

Land Owners: **dcr**
Massachusetts DCR

Landscape Architect / Project Prime: **Offshoots PRODUCTIVE LANDSCAPES**
Offshoots, Inc.

Civil Engineer: **Horsley Witten Group Sustainable Environmental Solutions**
Horsley Witten Group

Traffic Engineer: **APEX**
Apex Companies, LLC

Electrical Engineer: **Thompson engineering company CONSULTING ENGINEERS**
Thompson Engineering

SHORE DRIVE GREENWAY

ient:	 <p>Mystic River WATERSHED ASSOCIATION</p> <p>Mystic River Watershed Association</p>
and Owners:	 <p>City of Somerville</p>
	 <p>dcr Massachusetts</p>
DCR	
andscape Architect /	
roject Prime:	 <p>offshoots PRODUCTIVE LANDSCAPES</p>
Offshoots, Inc.	
ivil Engineer:	 <p>Horsley Witten Group <i>Sustainable Environmental Solutions</i></p>
Horsley Witten Group	
traffic Engineer:	 <p>APEX</p>
Apex Companies, LLC	
electrical Engineer:	 <p>Thompson engineering company, Inc. FOUNDED 1958</p>
CONSULTING ENGINEERS	
89 NEWBURY STREET • DANVERS • MASSACHUSETTS 01923	
Thompson Engineering	

SHORE DRIVE GREENWAY

SOMERVILLE,
MASSACHUSETTS

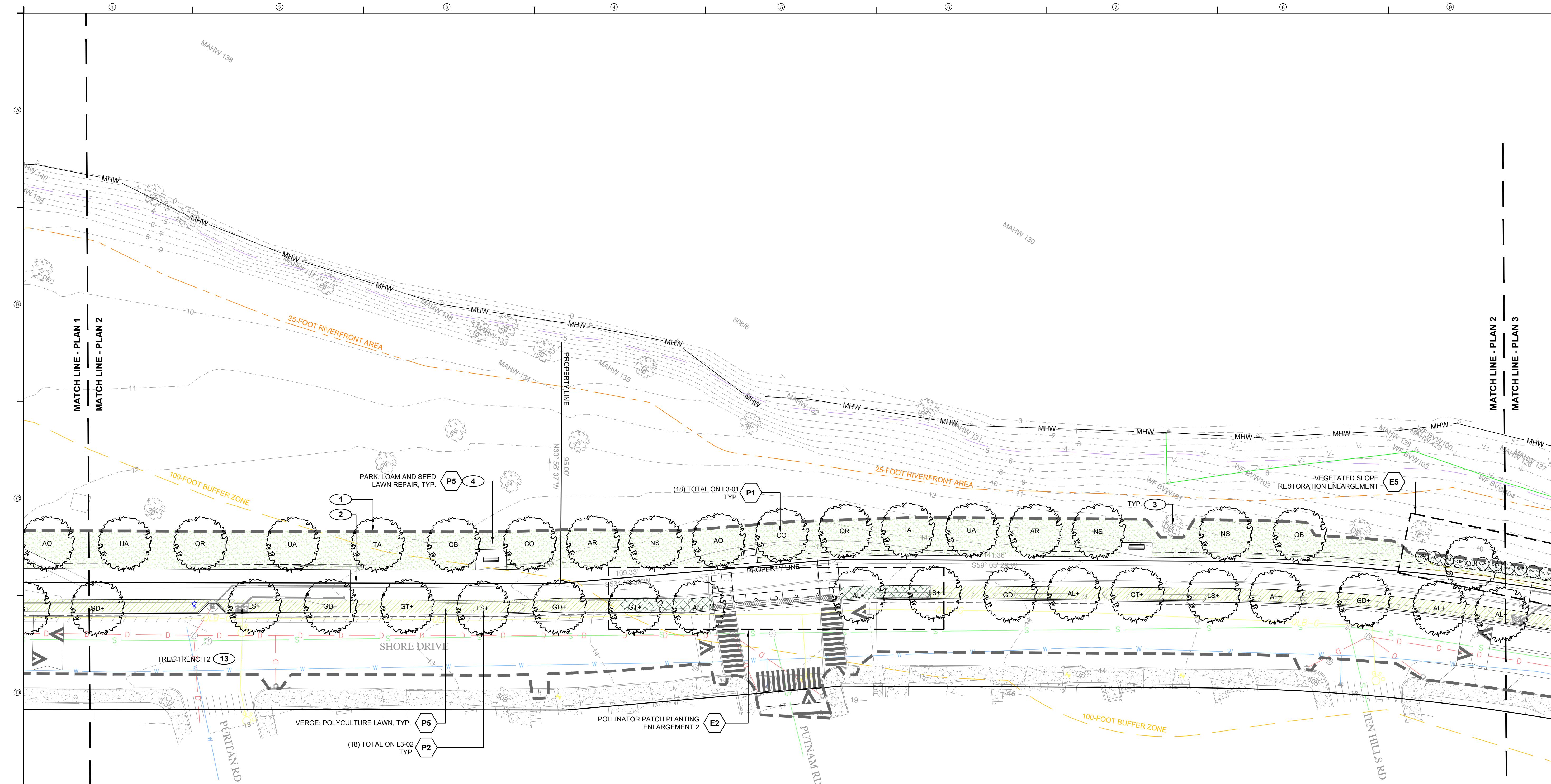
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JANUARY 30, 2026

PLANTING PLAN 2

SHEET NUMBER

L3-02



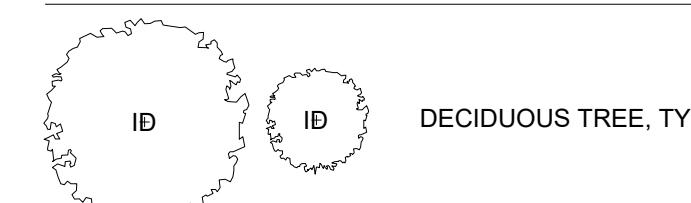
PLANTING NOTES:

1. REFER TO L3-06 PLANTING SCHEDULE FOR SPECIFIED PLANT SPECIES, SIZES, AND QUANTITIES.
2. VERIFY ALL EXISTING TREES TO REMAIN IN FIELD WITH LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE PRIOR TO START OF ANY WORK.
3. PROVIDE TWO STAKES AND TWO TREE GATOR WATER BAGS ON EACH NEW TREE AND COORDINATE FUTURE FILLING OF BAGS WITH MAINTENANCE TEAM. CONTRACTOR RESPONSIBLE FOR FILLING BAGS AND WATERING DURING CONSTRUCTION AND WARRANTY PERIOD.
4. LANDSCAPE ARCHITECT TO APPROVE PLANT MATERIAL PRIOR TO DELIVERY TO SITE AND AGAIN AT SITE PRIOR TO PLANTING. NO SUBSTITUTIONS OF PLANT SPECIES OR VARIETIES WITHOUT LANDSCAPE ARCHITECT'S WRITTEN APPROVAL.
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8. IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR BETWEEN THE PLANT MATERIALS LIST AND THE DRAWINGS, THE HIGHER NUMBER OF PLANTS SHALL GOVERN. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
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11. STAKE OUT PLANTS IN THE APPROXIMATE LOCATION. ADJUST LOCATIONS OF STAKES AS DIRECTED BY OWNER'S REPRESENTATIVE. NO PLANT INSTALLATION SHALL TAKE PLACE PRIOR TO LAYOUT APPROVAL BY LANDSCAPE ARCHITECT.
12. PLANT UNDER FULL SUPERVISION OF CERTIFIED ARBORIST, MCH, OR APPROVED EQUAL DESCRIBED IN THE SPECIFICATIONS. PROVIDE WRITTEN VERIFICATION OF CERTIFICATION AND/OR LICENSE FOR OWNER'S REPRESENTATIVE APPROVAL.
13. INSTALL ALL PLANT MATERIAL PER SPECIFICATIONS. REFER TO PLANTING DETAILS ON L4-03.
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17. DO NOT PROVIDE MULCH IN PLANT BEDS TO RECEIVE OVERSEED.
18. CONTRACTOR TO REPAIR ANY DAMAGE TO ADJACENT AREAS DUE TO OPERATIONS INSIDE AND/OR OUTSIDE OF LIMIT OF WORK.
19. REFER TO L2-00 SERIES FOR SOIL PLANS.
20. INCLUDE 1 YEAR OF PLANT MAINTENANCE AND WARRANTY, SEE SPECIFICATIONS.
21. FOR ALL TREES, INCLUDE AN ADDITIONAL YEAR OF MAINTENANCE AND WARRANTY FOR A TOTAL OF 2 YEARS, SEE SPECIFICATIONS.
22. CONTRACTOR SHALL CARRY AN ALLOWANCE TO REPLACE ANY PLANTS THAT ARE IMPACTED DUE TO HERBIVORY DURING WARRANTY PERIOD.

PLANTING HATCH LEGEND:

	VERGE: POLLINATOR PATCH
	VERGE: POLYCULTURE LAWN
	PARK: VEGETATED SLOPE RESTORATION MIX
	PARK: LOAM AND SEED LAWN REPAIR
	PARK: NATIVE MEADOW RESTORATION

PLANTING SYMBOL LEGEND:



ENLARGEMENT KEYNOTES

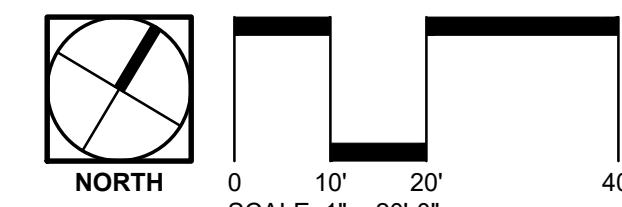
E#	SITE ENLARGEMENTS	
E1	POLLINATOR PATCH PLANTING ENLARGEMENT 1	1/L3-0
E2	POLLINATOR PATCH PLANTING ENLARGEMENT 2	2/L3-0
E3	POLLINATOR PATCH PLANTING ENLARGEMENT 3	3/L3-0
E4	POLLINATOR PATCH PLANTING ENLARGEMENT 4	4/L3-0
E5	VEGETATED SLOPE RESTORATION ENLARGEMENT	5/L3-0

PLANTING DETAIL / KEYNOTES:

P#	PLANTING	
P1	TREE PLANTING	1/L4-03
P2	TREE PLANTING IN VERGE	2/L4-03
P3	SHRUB PLANTING	3/L4-03
P4	PERENNIAL PLANTING - CONTAINER	4/L4-03
P5	SEEDED PLANTING	5/L4-03
P6	TEMPORARY SEED PROTECTION FENCE	6/L4-03

SITE NOTES:

- 1** LIMIT OF WORK
- 2** PROPERTY LINE
- 3** EXISTING TREE TO REMAIN - SEE EROSION AND SEDIMENT CONTROL PLANS FOR PROTECTION
- 4** DISTURBED AREAS OF EXISTING LAWN TO BE REPLACED IN KIND WITH LOAM AND LAWN SEED TO MATCH CURRENT CONDITION
- 13** SEDIMENT FOREBAY AND TREE TRENCH, SEE CIVIL DRAWINGS
- 21** NATIVE MEADOW RESTORATION, PER SPECIFICATIONS



Client:



Land Owners:



City of Somerville

Landscape Architect /

Project Prime:



Civil Engineer:



Traffic Engineer:



Electrical Engineer:



Stamp:

Issue Date:

Revisions

#

Date

Description

1

2/12/2026

Updated Tree Warranty

SHORE DRIVE

GREENWAY

SOMERVILLE,

MASSACHUSETTS



JANUARY 30, 2026

DRAWN: CAU

REVIEWED: SCH

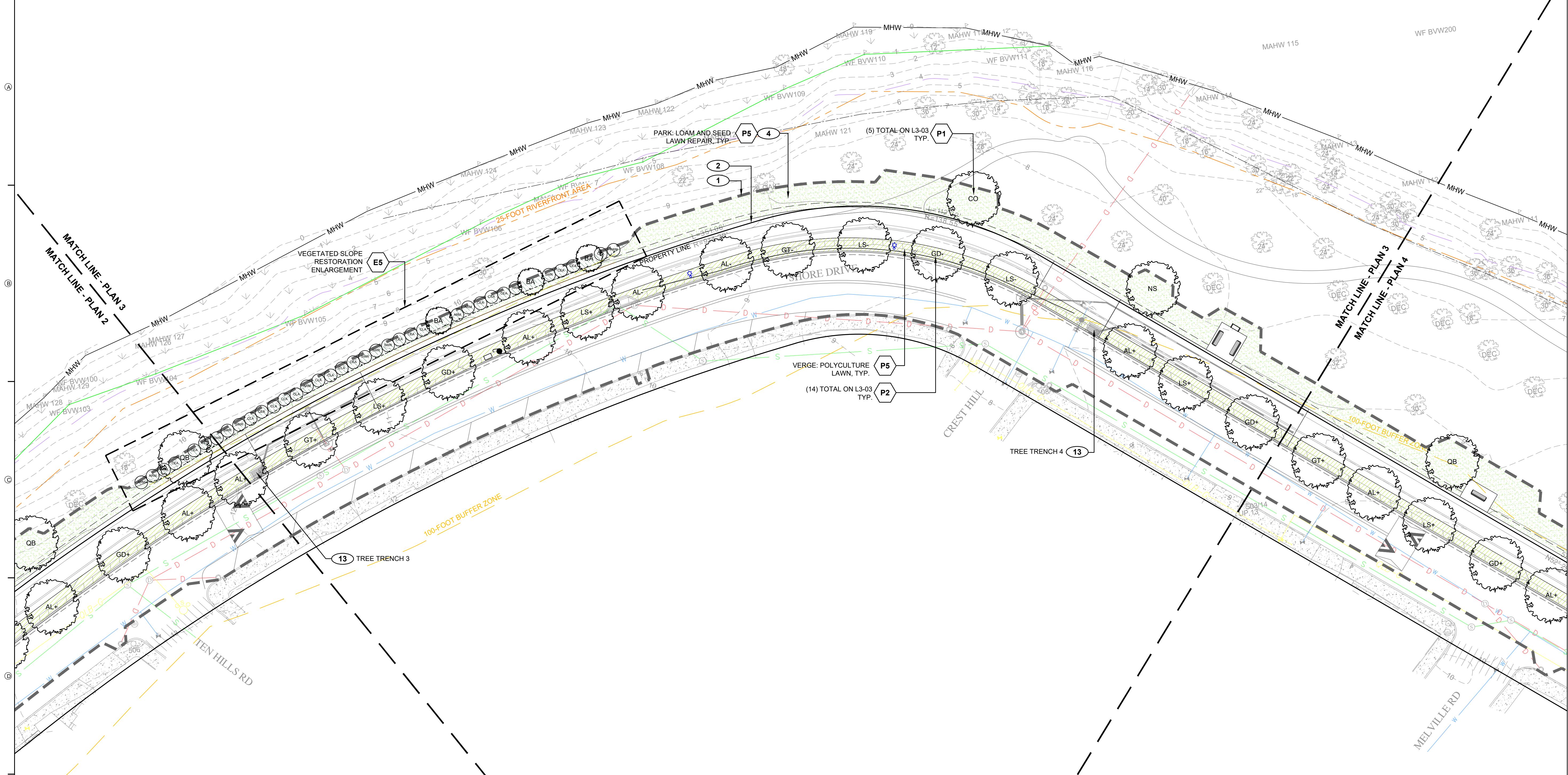
BID SET

JANUARY 30, 2026

PLANTING PLAN 3

SHEET NUMBER

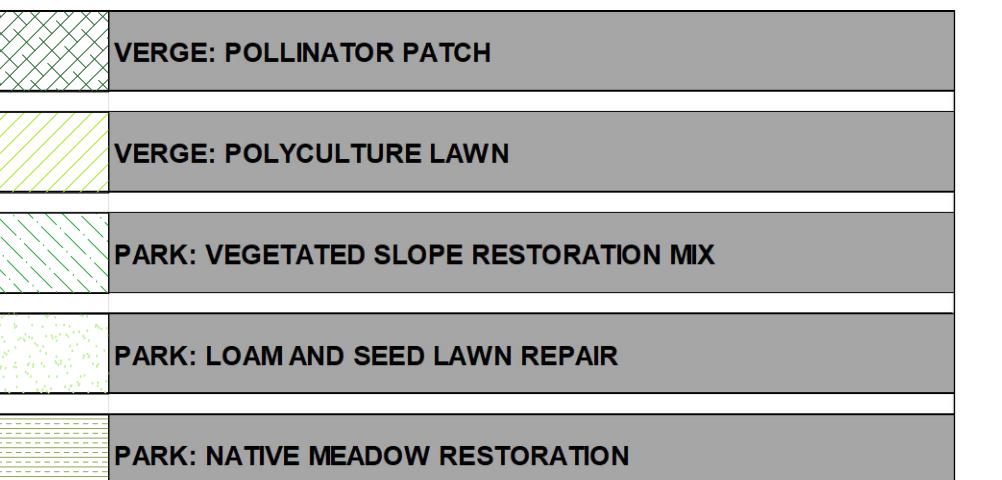
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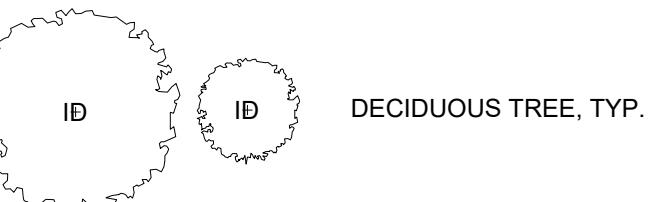
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PLANTING HATCH LEGEND:



PLANTING SYMBOL LEGEND:



ENLARGEMENT KEYNOTES:

E# SITE ENLARGEMENTS

E1	POLLINATOR PATCH PLANTING ENLARGEMENT 1	1/L3-05
E2	POLLINATOR PATCH PLANTING ENLARGEMENT 2	2/L3-05
E3	POLLINATOR PATCH PLANTING ENLARGEMENT 3	3/L3-05
E4	POLLINATOR PATCH PLANTING ENLARGEMENT 4	4/L3-05
E5	VEGETATED SLOPE RESTORATION ENLARGEMENT	5/L3-05

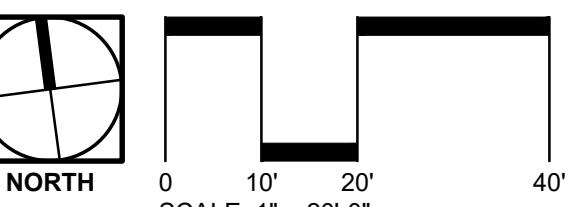
PLANTING DETAIL / KEYNOTES:

P# PLANTING

P1	TREE PLANTING	1/L4-03
P2	TREE PLANTING IN VERGE	2/L4-03
P3	SHRUB PLANTING	3/L4-03
P4	PERENNIAL PLANTING - CONTAINER	4/L4-03
P5	SEEDED PLANTING	5/L4-03
P6	TEMPORARY SEED PROTECTION FENCE	6/L4-03

SITE NOTES:

- LIMIT OF WORK
- PROPERTY LINE
- EXISTING TREE TO REMAIN - SEE EROSION AND SEDIMENT CONTROL PLANS FOR PROTECTION
- DISTURBED AREAS OF EXISTING LAWN TO BE REPLACED IN KIND WITH LOAM AND LAWN SEED TO MATCH CURRENT CONDITION
- SEDIMENT FOREBAY AND TREE TRENCH, SEE CIVIL DRAWINGS
- NATIVE MEADOW RESTORATION, PER SPECIFICATIONS



SHORE DRIVE
GREENWAYSOMERVILLE,
MASSACHUSETTS

STAMP:

ISSUE DATE:

REVISIONS

#

DATE DESCRIPTION

1

2/12/2026 UPDATED TREE WARRANTY

DRAWN: CAU

REVIEWED: SCH

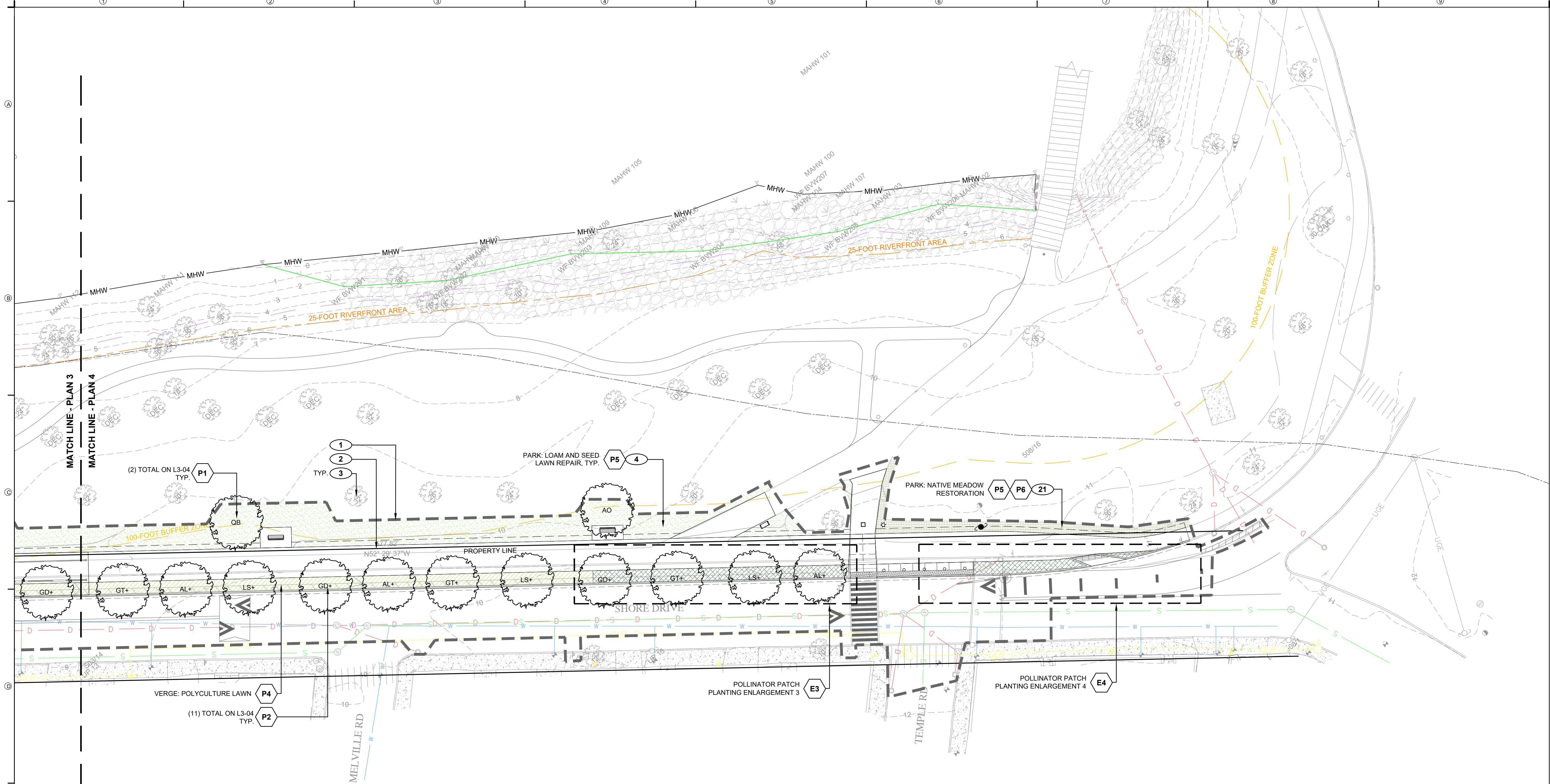
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JANUARY 30, 2026

PLANTING
PLAN 4

SHEET NUMBER

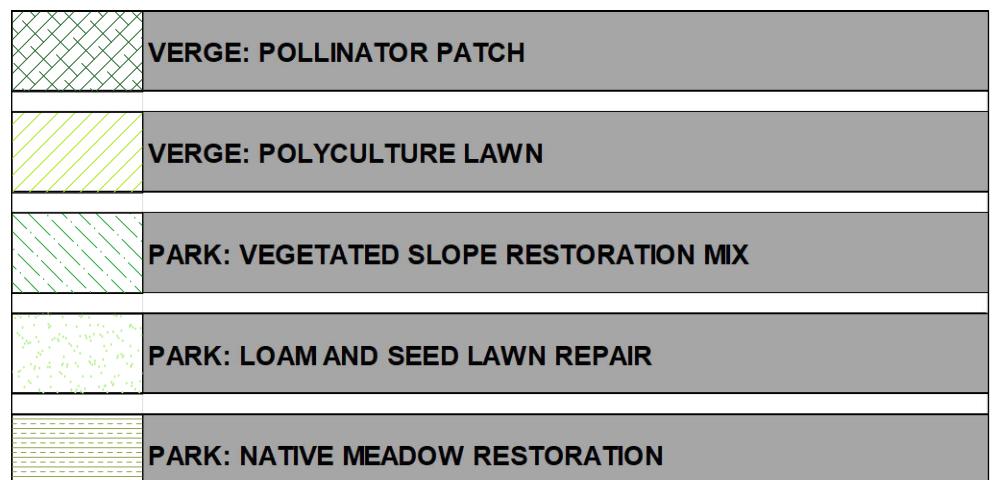
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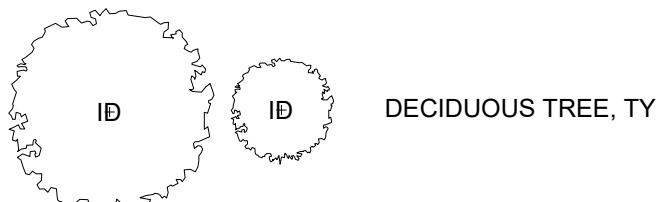
PLANTING NOTES:

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- CONTRACTOR SHALL CARRY AN ALLOWANCE TO REPLACE ANY PLANTS THAT ARE IMPACTED DUE TO HERBIVORY DURING WARRANTY PERIOD.

PLANTING HATCH LEGEND:



PLANTING SYMBOL LEGEND:



ENLARGEMENT KEYNOTES:

E#	SITE ENLARGEMENTS
E1	POLLINATOR PATCH PLANTING ENLARGEMENT 1 1/L3-05
E2	POLLINATOR PATCH PLANTING ENLARGEMENT 2 2/L3-05
E3	POLLINATOR PATCH PLANTING ENLARGEMENT 3 3/L3-05
E4	POLLINATOR PATCH PLANTING ENLARGEMENT 4 4/L3-05
E5	VEGETATED SLOPE RESTORATION ENLARGEMENT 5/L3-05

PLANTING DETAIL / KEYNOTES:

P#	PLANTING	1/L4-03
P1	TREE PLANTING	1/L4-03
P2	TREE PLANTING IN VERGE	2/L4-03
P3	SHRUB PLANTING	3/L4-03
P4	PERENNIAL PLANTING - CONTAINER	4/L4-03
P5	SEEDED PLANTING	5/L4-03
P6	TEMPORARY SEED PROTECTION FENCE	6/L4-03

SITE NOTES:

- LIMIT OF WORK
- PROPERTY LINE
- EXISTING TREE TO REMAIN - SEE EROSION AND SEDIMENT CONTROL PLANS FOR PROTECTION
- DISTURBED AREAS OF EXISTING LAWN TO BE REPLACED IN KIND WITH LOAM AND LAWN SEED TO MATCH CURRENT CONDITION
- SEDIMENT FOREBAY AND TREE TRENCH, SEE CIVIL DRAWINGS
- NATIVE MEADOW RESTORATION, PER SPECIFICATIONS

