

LIGHTING NOTES:

1. POINT—BY—POINT CALCULATIONS PROVIDED WITHIN HAVE BEEN PREPARED IN ACCORDANCE TO IESNA STANDARDS AND IN CONSIDERATION OF THE VARIABLES WITHIN THESE NOTES AND SITE LIGHTING SCHEDULE. THE VALUES SHOWN ON THE PLANS ARE NOT AN INDICATION OF THE INITIAL LIGHT INTENSITIES OF THE LAMPS. THESE VALUES ARE AN APPROXIMATION OF THE MAINTAINED INTENSITIES DELIVERED TO THE GROUND PLANE USING INDUSTRY STANDARD LIGHT LOSS FACTORS (LLF) WHICH COVER LAMP DEGRADATION AND NATURAL BUILDUP/ DIRT DEGRADATION ON THE FIXTURE LENS. THE LIGHTING PLAN IS DESIGNED WITH AN INDUSTRY STANDARD LLF IN ACCORDANCE WITH GUIDANCE AS PROVIDED BY IESNA. MINOR VARIATIONS IN TOROGRAPHY, PLYSTOR OF PRESENTATION OF AN INCORPORTATION. TOPOGRAPHY, PHYSICAL OBSTRUCTIONS, AMBIENT OR ADJACENT LIGHT SOURCES AND/OR OTHER POTENTIAL IMPACTS HAVE NOT BEEN INCLUDED IN THESE CALCULATIONS. THEREFORE, AS—BUILT LIGHT INTENSITIES MAY VARY, IN EITHER DIRECTION, FROM WHAT IS EXPLICITLY PORTRAYED WITHIN THESE DRAWINGS.NO GUARANTEE OF LIGHT LEVELS IS EXPRESSED OR IMPLIED BY THE POINT BY POINT CALCULATIONS SHOWN ON THESE DEADS.

LIGHT LEVEL POINT SPACING IS 10 FT. LEFT TO RIGHT AND 10 FT. TOP TO BOTTOM. POINT BY POINT CALCULATIONS ARE BASED ON THE LIGHT LOSS FACTOR AS STATED IN THE LIGHTING SCHEDULE. 3. ALL LIGHTING IS TO BE FULL CUT-OFF.

COMPLIANCE

 ALL SITE LIGHTING RELATED WORK AND MATERIALS SHALL COMPLY WITH CITY, COUNTY, AND OTHER APPLICABLE GOVERNING AUTHORITY REQUIREMENTS. 4. LIGHTING LAYOUT COMPLIES WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) SAFETY STANDARDS FOR LIGHT LEVELS.

CONTRACTOR TO COORDINATE POWER SOURCE WITH LIGHT FIXTURES TO ENSURE ALL SITE LIGHTING IS OPERATING EFFECTIVELY, EFFICIENTLY AND SAFELY.

- 6. REFER TO ELECTRIFICATION PLAN FOR PROVIDING ADEQUATE POWER FOR SITE LIGHTING.
- 7. CONTRACTOR TO COORDINATE LOCATION OF EASEMENTS, UNDERGROUND UTILITIES AND DRAINAGE BEFORE
- 8. INSTALLATION OF ALL LIGHTING FIXTURES, POLES, FOOTINGS, AND FEEDER CABLE TO BE COORDINATED WITH ALL SITE WORK TRADES TO AVOID CONFLICT WITH FINISHED AND PROPOSED WORK.
- CONTRACTOR TO COORDINATE INSTALLATION OF UNDERGROUND FEEDER CABLE FOR EXTERIOR LIGHTING WITH EXISTING AND PROPOSED UTILITIES, SITE DRAINAGE SYSTEMS, AND PAVING. CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE SHOULD ANY UTILITIES, NOT SHOWN ON THE PLANS, BE FOUND DURING EXCAVATIONS.

POLES AND FOOTINGS

10. PROVIDE A CONCRETE BASE FOR EACH LIGHT POLE AT THE LOCATIONS INDICATED ON THE CONSTRUCTION DRAWINGS AND/OR IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS RELATING DIRECTLY TO CAST—IN-PLACE CONCRETE. THE USE OF ALTERNATE LIGHTING FOUNDATIONS, SUCH AS PRECAST, MAY CHANGE THE SIZING AND REINFORCEMENT REQUIREMENTS FROM THOSE SHOWN ON THESE PLANS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING ANY SUBSTITUTED PRODUCTS.

11. CONTRACTOR SHALL EXAMINE AND VERIFY THAT SOIL CONDITIONS ARE SUITABLE TO SUPPORT LOADS EXERTED UPON THE FOUNDATIONS DURING EXCAVATION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY UNSATISFACTORY CONDITIONS.

12. POLE FOUNDATIONS SHALL NOT BE POURED IF FREE STANDING WATER IS PRESENT IN EXCAVATED AREA. 13. ALL POLES HIGHER THAN 25 FT. SHALL BE EQUIPPED WITH FACTORY INSTALLED VIBRATION DAMPENERS.

WALL MOUNTED FIXTURES 14. CONTRACTOR TO COORDINATE INSTALLATION OF ALL THE WALL MOUNTED FIXTURES AND ELECTRICAL

CONNECTIONS TO SITE STRUCTURE(S) WITH BUILDING MEP, ARCHITECT, AND/OR OWNER. 15. INSTALLATION AND ELECTRICAL CONNECTIONS FOR WALL MOUNTED FIXTURES TO BE COORDINATED WITH ARCHITECTURAL, STRUCTURAL, UTILITY AND SITE PLANS AND TO BE IN ACCORDANCE WITH ALL APPLICABLE CODES.

ADJUSTMENT AND INSPECTION

16. CONTRACTOR TO OPERATE EACH LUMINAIRE AFTER INSTALLATION AND CONNECTION. INSPECT FOR IMPROPER 17. CONTRACTOR TO AIM AND ADJUST ALL LUMINAIRES TO PROVIDE ILLUMINATION LEVELS AND DISTRIBUTION AS INDICATED ON THE CONSTRUCTION DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT AND/OR

18. CONTRACTOR TO CONFIRM THAT LIGHT FIXTURES, TILT ANGLE AND AIMING MATCH SPECIFICATIONS ON THE PLANS.

REQUIREMENTS FOR ALTERNATES

19. ALL LIGHTING SUBSTITUTIONS MUST BE MADE WITHIN 14 DAYS PRIOR TO THE BID DATE TO PROVIDE AMPLE TIME FOR REVIEW AND TO ISSUE AN ADDENDUM INCORPORATING THE SUBSTITUTION WITH THE FOLLOWING REQUIREMENTS:

A. ANY SUBSTITUTION TO LIGHTING FIXTURES, POLES, ETC. MUST BE APPROVED BY THE OWNER, ENGINEER

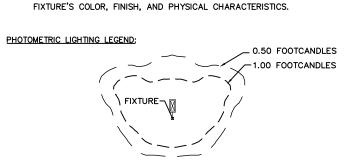
- AND TENANTS. ANY COST ASSOCIATED WITH REVIEW AND/OR APPROVAL OF THE SUBSTITUTIONS SHALL BE ENTIRELY BORNE BY THE CONTRACTOR

 B. COMPUTER PREPARED PHOTOMETRIC LAYOUT OF THE PROPOSED LIGHTED AREA WHICH INDICATES, BY B. COMPUTER PREPARED PHOTOMETRIC LAYOUT OF THE PROPOSED LIGHTED AREA WHICH INDICATES, BY ISOFOOTCANDLE, THE SYSTEM'S PERFORMANCE.

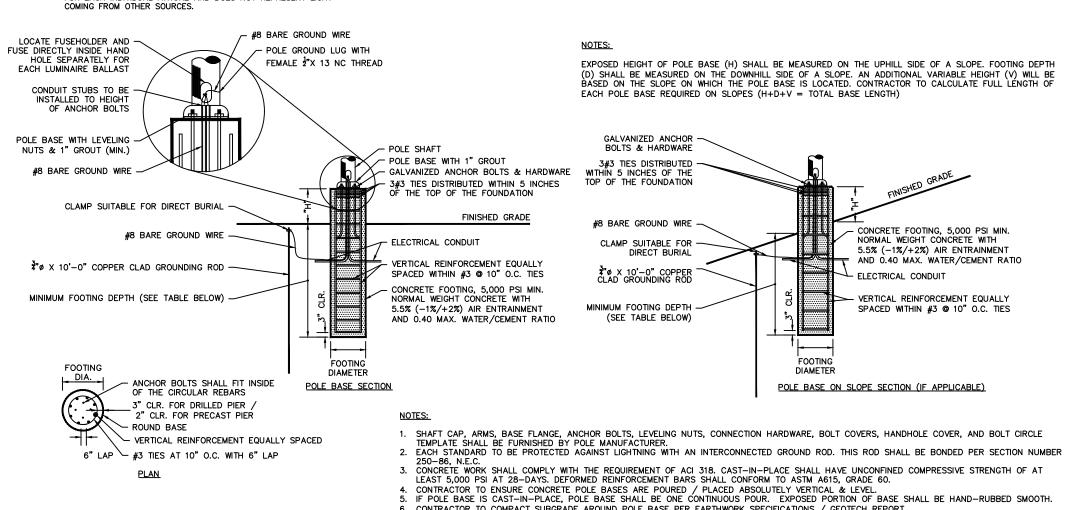
 C. A PHOTOMETRIC REPORT FROM A NATIONAL INDEPENDENT TESTING LABORATORY WITH REPORT NUMBER, DATE, FIXTURE CATALOG NUMBER, LUMINAIRE AND LAMP SPECIFICATIONS; IES CALCULATIONS, POINT BY POINT FOOT CANDLE PLAN, STATISTIC ZONES SHOWING AVERAGE, MAXIMUM, MINIMUM AND UNIFORMITY RATIOS, SUMMARY, ISOLUX PLOT, AND CATALOGUE CUTS. CATALOGUE CUTS MUST IDENTIFY OPTICS, LAMP TYPE, DISTRIBUTION TYPE, REFLECTOR, LENS, BALLASTS, WATTAGE, VOLTAGE, FINISH HOUSING DESCRIPTION AND ALL OTHER PERTINENT INFORMATION.

 D. POLE MANUFACTURER AASHTO CALCULATIONS INDICATING THE POLE AND ANCHOR BOLTS BEING SUBMITTED ARE CAPABLE OF SUPPORTING THE POLE AND FIXTURE SYSTEMS BEING UTILIZED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

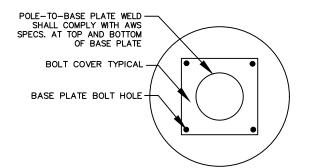
 E THE LINDERWRITERS LABORATORY LISTING AND FILE NUMBER FOR THE SPECIFIC FIXTURE(S) TO BE
- E. THE UNDERWRITERS LABORATORY LISTING AND FILE NUMBER FOR THE SPECIFIC FIXTURE(S) TO BE F. A COLOR PHOTOGRAPH THAT CLEARLY SHOWS THE REPLACEMENT FIXTURE POLE MOUNTED, THE

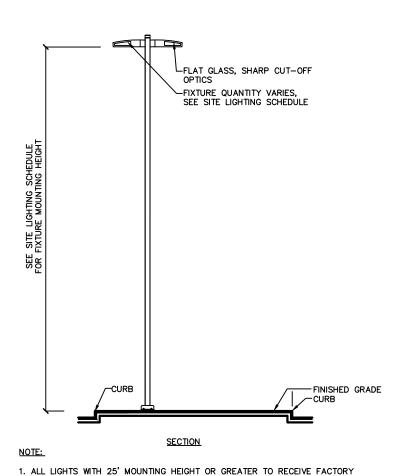


NOTE: THE PHOTOMETRIC TEMPLATE REPRESENTS LIGHT THROW FOR EACH INDIVIDUAL FIXTURE AND DOES NOT REPRESENT LIGHT COMING FROM OTHER SOURCES.



	IF PULE BASE IS U	ASI-IN-PLACE, POLE BASE	SHALL BE UN	NE CONTINUOUS	S POUR. EXPOSED PO	KIION OF BASE SHALL BE HAND-RUBE	SED SMOOTH.
6.	CONTRACTOR TO C	OMPACT SUBGRADE AROUND	POLE BASE I	PER EARTHWOR	RK SPECIFICATIONS /	GEOTECH REPORT.	
7.	THE INFORMATION ESTIMATE PURPOSE	ILLUSTRATED IN THE LIGHT I	POLE FOUNDAT S SHOULD BE	TION DETAIL HA DESIGNED AND	AS BEEN PROVIDED FO D DETAILED BY A LICE	R GENERAL REFERENCE AND PRELIMINA NSED STRUCTURAL ENGINEER BASED OF	
8.	CONTRACTOR TO C	ONFIRM GROUNDING DESIGN	WITH MEP.				
		UNTING GHT	FOOTING DEPTH	FOOTING DIAMETER	VERTICAL REINFORCEMENT	Ή	
							
	20'-		7'-0"	2'-0"	6 #5 BARS	3'-0"	





LIGHT FIXTURE AND POLE



Gardco PureForm LED area small square precision P15 features a sleek, low profile design. Precision optics are optimized for maximum efficiency and uniformity. Multiple optical distributions and color temperatures are available to allow you to customize your selection.



Prefix P15	Optic Technology	Configuration (nominal lumens)	Color Temperature	Distribution	Mounting	Voltage
area	eForm P Precision small, square	A01 2,000 lumens A02 4,000 lumens A03 6,000 lumens A04 8,000 lumens A05 10,000 lumens A06 12,000 lumens A07 14,000 lumens A08 16,000 lumens	730 70CRI 3000K 740 70CRI 4000K 750 70CRI 5000K 835 ² 80CRI 3500K 827 ² 80CRI 2700K	T2M Type 2 Medium T3M Type 3 Medium T4S Type 4 Short T5S Type 5 Short BLC Back Light Control	AR1 ³ Arm mount (Standard) The following mounting kits must be ordered separately (See accessories) RAM ³ Retrofit arm mount kit WAL Wall mount	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277' (50/60H HVU 347-480 (50/60H
Options Dimming cor	ntrols	Motion sensor lens	Electrical/Shi	elding	Finish	
DLEA ⁴ FAWS ^{4,5} BL50 ^{4,6} SIWI ^{4,7,9,10} SRDR ^{4,7,8,14} Dyna Dimmel CS50 ^{4,8} CM50 ^{4,8} CS30 ^{4,8}	ning driver standard) Dimming Leads Externally Accessible (controls by oth Field Adjustable Wattage S Bi-level set at 50% dimming SiteWise integral module SR driver connected to Zha socket F: Automatic Profile Dimming Security 50% Dimming, 7 ho Median 50% Dimming, 8 hou Median 30% Dimming, 8 hou	elector g nga l purs purs purs	TR78.11 7-pin TLP ^{10,12} 7-pin 3-pin SP2¹ Increa FS1¹0 Single FS2¹0 Doubl	control Button Twist Lock Receptacle Twist Lock Receptacle w/ Photocell ased 20kA Fuse (120, 277, 347VAC) e Fuse (208, 240, 480VAC) al house side shield	Textured BK Black WH White BZ Bronze DG Dark Gray MG Medium Gray Customer specified RAL Specify optional color or RAL (ex: RAL7024) CC Custom color (Must supply color chip for required factory quote)	
2. Extended 3. Mounts to	•	actory for details. adapter included for square po trol options (mutually exclusive		12. Not available in 480V. O	ge. tacle are connected to SR driver. der photocell separately with TR7. and FAWS dimming control options.	

P15_PureForm_area_small_square_precision 04/21 page 1 of 6



14. When ordering SRDR with L2 or L3, controller to be used on socket must be SR compatible







FIXTURE TYPE A & B

Not available with motion sensor.

7. Not available with photocontrols

8. Not available in 347 or 480V.

9. Available only in 120 or 277V.

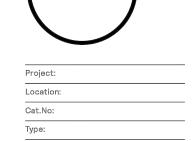
6. BL50 must be specified with a motion sensor lens (L2 or L3).

NTS

(See specifications for more details).



The Gardco TRS Tapered Round Steel pole consists of a one-piece design fabricated steel tubing circumferentially welded to a structural quality hot rolled carbon steel plate. The poles are finished with an electrostatically applied, thermally cured TGIC polyester powdercoat.



Prefix	Height	Gauge	Drilling ¹		Finish		Options		
05TRS	20	11	D1	1 Way	BRP	Bronze Paint	FES	Festo	on Outlet
06TRS	20 25 ²		D2 D2@90	2 Way at 180° 2 Way at 90°	BLP WP	Black Paint White Paint	VDA AHH		ion Dampener onal Hand Hole
D7TRS	25 30 ² 35 ²		D3 D3@120 D4	3 Way at 90° 3 Way at 120° 4 Way	MGY DGY GV	Medium Grey Dark Grey Galvanized (No Paint)		base and	ts and Additional Hand Holes, indicate height orientation to original hand hole. See Pole entation Information on Page 4.
08TRS	30 35 39 ²		T2 T3 T4	2.4" OD Tenon X 4" long 3" OD Tenon X 5" long 4" OD Tenon X 6" long	oc FPGV	Finished Paint over Galvanized (specify color) Optional Color Paint	CL1/2 CL3/4	Coupl	lipples and Couplings ing - Internal Thread 1/2" ing - Internal Thread 3/4"
O9TRS	39		P	Plain Top (No Drilling/No Tenon)	sc	(Specify RAL designation ex: RAL7024) Special Color Paint (Specify. Must supply color chip.)		Coupl Coupl Nippl Nippl Nippl Nippl Nippl	ing - Internal Thread 1" ing - Internal Thread 1-1/4" ing - Internal Thread 1-1/2" e - External Thread 1/2" e - External Thread 3/4" e - External Thread 1" e - External Thread 1-1/4" e - External Thread 1-1/2" above base and orientation to hand hole. Orientation Information on Page 4.
							I	_	ide Mount Bullhorn Brackets
							GM-080 GM-080	-24	Single – 1.9" OD (For Gardco DFL7/DFC7 only) Single – 2.4" OD above base and orientation to hand hole.
							Addition	nal and al	e Orientation Information on Page 4 ternative brackets and accessories available. iffy product catalog (eCat) website for more information.

Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory. 1. Standard poles are drilled in factory for compatibility with Signify luminaires only (D* options). For non-Signify-brand luminaires, select the P drilling option. 2. Poles with a 2.4" top OD cannot be side drilled. The 2.4" top has the same OD as the T2 tenon.

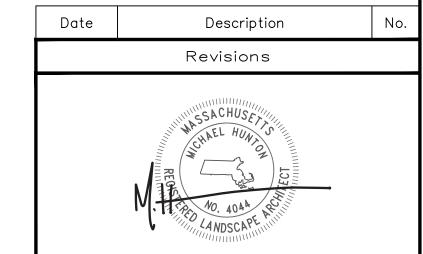
Anchor Bolts for Gardco 0xTRS Poles, ordered separately:

	12NC for ordering	Description (in inches
For Pre-ship service (Order 4 per pole)	912400215784	1 x 36 x 4.5
For shipment with the pole (Order 1 per pole)	912400200208	1 x 36 x 4.5

TRS_Spec_Sheet 02/21 page 1 of 4



NTS



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Drawing Title

MEDWAY BATTERY ENERGY STORAGE SYSTEM

NORFOLK COUNTY

MASSACHUSETT

LIGHTING DETAILS

⊃roject No. Drawing No. 151033401 **LL501**

06/08/2023 rawn Bv Checked By

Date: 10/3/2023 Time: 15:37 User: jpark Style Table: Langan.stb Layout: LL501 Document Code: 151033401-0501-LL501-0101

POLE FOOTING

6" LAP #3 TIES AT 10" O.C. WITH 6" LAP

NTS

NON-JURISDICTIONAL ROUTE 109 SCREENING PLANTING SCHEDULE	D.P.U.
11011 JORISDICTION AL ROOTE TOS SCREENING LE ANTING SCHEDOLE	SUMMARY OF PROPOSED ACTIVITIES MG-2 Attachn Page 23
KEY QTY. BOTANICAL NAME COMMON NAME SIZE ROOT REMARKS	WITHIN THE 200-FOOT RIVERFRONT AREA WETLAND BUFFER IMPACT AREA #1 (6,130 SF) STRIP (TYP.)
SHADE TREE(S)	ACTIVITY AREA (SF) AREA (AC) RETAINING WALLS AND GRADING 9,910 0.228
AR 3 ACER RUBRUM RED MAPLE 2 1/2-3" CAL. B+B - CARPINUS CAROLINIANA AMERICAN HORNBEAM 2 1/2-3" CAL. B+B -	STORMWATER BASIN FOOTPRINT 17,630 0.405
TA 1 TILIA AMERICANA BASSWOOD 2 1/2-3" CAL. B+B - EVERGREEN TREE(S)	SECTION 23 (VEGETATION REMOVAL) MITIGATION PLANTING AREA MEADOW SEED MIX TYPE 'B' (TYP.)
JV 9 JUNIPERUS VIRGINIANA EASTERN RED CEDAR 8-10' B+B -	NOTE: THE PROJECT SITE CONTAINS 198,880 SF (4.56 ACRES) OF RIVERFRONT
DECIDUOUS SHRUB(S) AAL 24 ARONIA ARBUTIFOLIA RED CHOKEBERRY 24-30" CONTAINER -	AREA. APPROXIMATELY 59,570 SF (1.37 ACRES) ARE THE INNER RIPARIAN (0-100 FOOT) ZONE; THE REMAINING 139,310 SF (3.19 ACRES) ARE THE OUTER RIPARIAN (100-200 FOOT) ZONE.
HVCW 23 HAMAMELIS VIRGINIANA COMMON WITCHHAZEL 3-4' CONTAINER - IVE 35 ILEX VERTICILLATA WINTERBERRY 24-30" CONTAINER -	ACRES) ARE THE OUTER RIPARIAN (100-200 FOOT) ZONE. 5 VD 7 IVE
VD 30 VIBURNUM DENTATUM ARROWWOOD VIBURNUM 3-4' B+B -	LOW LOW
VINE(S)PQ+413PARTHENOCISSUS QUINQUEFOLIAVIRGINIA CREEPER2 1/4" PEAT POT2 YR.PLANTS18" O.C.	
NOTE: IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.	5 AAL 3 IVE
	6 JV 5 AAL
LOCAL WETLAND REGULATION (SECTION 23) VEGETATION REPLACEMENT AREA	
KEY QTY. BOTANICAL NAME COMMON NAME SIZE ROOT REMARKS	5' LAWN MOW
SHADE TREE(S) AR 12 ACER RUBRUM RED MAPLE 3-3 1/2" CAL B+B (12' MINIMUM HEIGHT)	STRIP (TYP.)
BTP 1 BETULA POPULIFOLIA GREY BIRCH 12-14' HT B+B -	
CYO 2 CARYA OVATA SHAGBARK HICKORY 3-3 1/2" CAL B+B (12' MINIMUM HEIGHT) QA 2 QUERCUS ALBA WHITE OAK 3-3 1/2" CAL B+B (12' MINIMUM HEIGHT)	THE PART OF THE PA
QR 3 QUERCUS RUBRA RED OAK 3-3 1/2" CAL B+B (12' MINIMUM HEIGHT) QV 1 QUERCUS VELUTINA BLACK OAK 3-3 1/2" CAL B+B (12' MINIMUM HEIGHT)	3 JV -5 CCA
ORNAMENTAL TREE(S)	
POP 5 POPULUS TREMULODES QUAKING ASPEN 12-14' B+B - EVERGREEN TREE(S)	
PS 5 PINUS STROBUS EASTERN WHITE PINE 12-14' B+B - DECIDUOUS SHRUB(S)	
AAL 23 ARONIA ARBUTIFOLIA RED CHOKEBERRY 24-30" HT CONTAINER - FG 14 FOTHERGILLA GARDENII DWARF FOTHERGILLA 24-30" HT CONTAINER -	
IVE 12 ILEX VERTICILLATA WINTERBERRY 24-30" HT CONTAINER -	
VD 15 VIBURNUM DENTATUM ARROWWOOD VIBURNUM 24-30" HT CONTAINER - NOTE:	
1. VEGETATION REPLACEMENT AREA PLANT SCHEDULE PROVIDED BY EPSILON ASSOCIATES 2. PLANTING STOCK USED IN THE VEGETATION REPLACEMENT SHALL BE INSPECTED FOR PESTS, DISEASE AND OVERALL HEALTH TO ENSURE SUITABLE 2. PLANTING ADE LIGHT TO ENSURE SUITABLE AND OVERALL HEALTH TO ENSURE SUITABLE	
SPECIMENS ARE USED. UNSUITABLE SPECIMENS WILL BE REJECTED AND REPLACED WITH SUITABLE SPECIMENS. ANY PLANTING SUBSTITUTIONS MUST BE APPROVED BY THE PROJECT WETLAND SCIENTIST. ALL WOODY PLANT STOCK SHALL BE CONTAINER—GROWN OR BURLAP BALLED. DEVIATIONS TO THE PLANTING PLAN MUST BE APPROVED BY THE PROJECT WETLAND SCIENTIST. ONLY PLANT MATERIALS NATIVE AND INDIGENOUS TO MASSACHUSETTS SHALL	
BE USED. INVASIVE PLANT SPECIES WILL NOT BE USED IN THE RESTORATION AREA. 3. IF ANY DISCREPANCIES OCCUR BETWEEN AMOUNTS SHOWN IN THE PLAN AND THE PLANT LIST, THE PLAN SHALL DICTATE.	
4. ONLY STRAIGHT SPECIES SHALL BE USED IN PLANTING PLAN. 5. TREES TO BE REMOVED SHALL BE MARKED IN THE FIELD PER THE PLAN AND TREES TO REMAIN SHALL BE MARKED IN THE FIELD AND PROTECTED PER TREE PROTECTION DETAIL ON SHEET LP—501. ALL FIELD MARKINGS SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT AND CONSERVATION AGENT.	08/01/24 NOI REVISIONS
	10/04/23 NOI COMMENT REVISIONS
	08/24/23 NOI COMMENT REVISIONS
	SELLI 5' LAWN MOW
252	5' LAWN MOW STRIP (TYP.) Date Description
246	5' LAWN MOW STRIP (TYP.) Date Description
246 250	5' LAWN MOW STRIP (TYP.) Date Description
ASPHALT PAVEMENT(TYP.)	5' LAWN MOW STRIP (TYP.) Date Description
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ASPHALT PAVEMENT(TYP.) LON LON LON LON LON LON LON LO	5' LAWN MOW STRIP (TYP.) Date Description
ASPHALT LON	5' LAWN MOW STRIP (TYP.) Date Description
ASPHALT PAVEMENT(TYP.) MEADOW SEED MIX	5' LAWN MOW STRIP (TYP.) Date Description
ASPHALT PAVEMENT(TYP.) MEADOW SEED MIX	Revisions The property of the
MEADOW SEED MIX TYPE 'B' (TYP.) MEADOW SEED MIX TYPE 'C' (TYP.) STORMWATER BASIN	5' LAWN MOW STRIP (TYP.) Date Description
MEADOW SEED MIX TYPE 'B' (TYP.) MEADOW SEED MIX TYPE 'B' (TYP.) MEADOW SEED MIX TYPE 'C' (TYP.)	Date Description Revisions 11 How SIMP (Trp.) Revisions A AAL 5 VO B AAL Langon Engineering and Environmental Services, Inc. 100 Cambridge Services, Inc. 1
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MEADOW SEED MIX TYPE 'B' (TYP.) MEADOW SEED MIX TYPE 'B' (TYP.) MEADOW SEED MIX TYPE 'C' (TYP.) METAND BUFFER IMPACT AREA #3 (1,610 SF) SEASON FROM MAY TO SEPTEMBER TO SEPTEMBER TO SEPTEMBER TO SEPTEMBER	Date Description Revisions 11 How SIMP (Trp.) Revisions A AAL 5 VO B AAL Langon Engineering and Environmental Services, Inc. 100 Cambridge Services, Inc. 1
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MEADOW SEED MIX TYPE 'B' (TYP.) MEADOW SEED MIX TYPE 'B' (TYP.) MEADOW SEED MIX TYPE 'C' (TYP.) STORMWATER BASIN ACCESS PATH, MON TO MAINTAIN A2 200' RIVERFRONT AREA #20 (1,610 ST) LIMIT DF WORK (TYP) WETLAND BUFFER IMPACT AREA #20 (1,610 ST) LIMIT DF WORK (TYP) WETLAND BUFFER MPACT AREA #20 (1,610 ST) LIMIT DF WORK (TYP) WETLAND BUFFER MPACT AREA #20 (1,610 ST) ODSINGER MEANON CSS PATH, MON SEASON FROM MAY TO SEPTEMBER 25 WE LLAND TO DISTRIBUTE MPACT AREA #20 (1,610 ST) LIMIT DF WORK (TYP) WETLAND BUFFER MPACT AREA #20 (1,610 ST) LIMIT DF WORK (TYP) WETLAND BUFFER MPACT AREA #20 (1,610 ST) LIMIT DF WORK (TYP) WETLAND BUFFER MPACT AREA #20 (1,610 ST) LIMIT DF WORK (TYP) WETLAND BUFFER MPACT AREA #20 (1,610 ST) LIMIT DF WORK (TYP)	Description Rewindons 1 1920
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GENERAL LANDSCAPE PLANTING NOTES

 NAMES OF PLANTS AS DESCRIBED ON THIS PLAN CONFORM TO THOSE GIVEN IN "STANDARDIZED PLANT NAMES", 1942 EDITION, PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE. NAMES OF PLANT VARIETIES NOT INCLUDED THEREIN CONFORM TO NAMES GENERALLY ACCEPTED IN NURSERY TRADE. ALL EXPOSED GROUND SURFACES THAT ARE NOT PAVED WITHIN THE CONTRACT LIMIT LINE, AND THAT ARE NOT COVERED BY LANDSCAPE PLANTING OR SEEDING AS SPECIFIED, SHALL BE COVERED BY A NATURAL MULCH THAT WILL PREVENT SOIL EROSION AND THE EMANATION OF DUST.

NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT OR PROJECT ENGINEER.

4. STANDARDS FOR TYPE, SPREAD, HEIGHT, ROOT BALL AND QUALITY OF NEW PLANT MATERIAL SHALL BE IN ACCORDANCE WITH GUIDELINES AS SET FORTH IN THE "AMERICAN STANDARD FOR NURSERY STOCK", PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. PLANT MATERIAL SHALL HAVE NORMAL HABIT OF GROWTH AND BE HEALTHY, VIGOROUS, AND FREE FROM DISEASES AND INSECT INFESTATION. 5. NEW PLANT MATERIAL SHALL BE NURSERY GROWN UNLESS SPECIFIED OTHERWISE. ALL PLANTS SHALL BE SET

PLUMB AND SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING, PLANT MATERIAL OF THE SAME SPECIES AND SPECIFED AS THE SAME SIZE SHOULD BE SIMILAR IN SHAPE, COLOR AND HABIT. THE LANDSCAPE ARCHITECT HAS THE RIGHT TO REJECT PLANT MATERIAL THAT DOES NOT CONFORM TO THE TYPICAL OR SPECIFIED HABIT OF THAT SPECIES.

6. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY AND SEWER LINES PRIOR TO THE START OF EXCAVATION ACTIVITIES. NOTIFY THE PROJECT ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS WITH PROPOSED PLANTING LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE. 7. THE CONTRACTOR SHALL NOT MAKE SUBSTITUTIONS. IF THE SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, THE CONTRACTOR SHALL SUBMIT PROOF OF NON-AVAILABILITY TO THE LANDSCAPE ARCHITECT AND OWNER, TOGETHER WITH A WRITTEN PROPOSAL FOR USE OF AN EQUIVALENT MATERIAL.

8. LANDSCAPE CONTRACTOR TO STAKE OUT PLANTING LOCATIONS, FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND/OR OWNER BEFORE PLANTING WORK BEGINS. THE LANDSCAPE ARCHITECT AND/OR OWNER SHALL DIRECT THE CONTRACTOR IN THE FINAL PLACEMENT OF ALL PLANT MATERIAL AND LOCATION OF PLANTING BEDS TO ENSURE COMPLIANCE WITH DESIGN INTENT UNLESS OTHERWISE INSTRUCTED.

9. THE LANDSCAPE ARCHITECT MAY REVIEW PLANT MATERIALS AT THE SITE, BEFORE PLANTING, FOR COMPLIANCE THE LANDSCAPE ARCHITECT MAY REVIEW PLANT MATERIALS AT THE SITE, BEFORE PLANTING, FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE, AND QUALITY. THE LANDSCAPE ARCHITECT RETAINS THE RIGHT TO FURTHER REVIEW PLANT MATERIALS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEM, INSECTS, INJURIES, AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROOFESS OF WORK. THE CONTRACTOR SHALL REMOVE REJECTED PLANT MATERIALS IMMEDIATELY FROM PROJECT SITE AS DIRECTED BY THE LANDSCAPE ARCHITECT OR OWNER.

10. DELIVERY, STORAGE, AND HANDLING
A. PACKAGED MATERIALS: PACKAGED MATERIALS SHALL BE DELIVERED IN CONTAINERS SHOWING WEIGHT,
ANALYSIS, AND NAME OF MANUFACTURER. MATERIALS SHALL BE PROTECTED FROM DETERIORATION DURING
DELIVERY, AND WHILE STORED AT SITE.
B. TREES AND SHRUBS: THE CONTRACTOR SHALL PROVIDE TREES AND SHRUBS DUG FOR THE GROWING SEASON
FOR WHICH THEY WILL BE PLANTED. DO NOT PRUNE PRIOR TO DELIVERY UNLESS OTHERWISE DIRECTED BY
THE LANDSCAPE ARCHITECT. DO NOT BEND OR BIND—THE TREES OR SHRUBS IN SUCH A MANNER AS TO
DAMAGE BARK, BREAK BRANCHES, OR DESTROY NATURAL SHAPE. PROVIDE PROTECTIVE COVERING DURING
TRANSIT. DO NOT DROP BALLED AND BURLAPPED STOCK DURING DELIVERY OR HANDLING.
C. ALL PLANTS SHALL BE BALLED AND BURLAPPED OR CONTAINER GROWN AS SPECIFIED. NO CONTAINER
GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND. ALL ROOTBALL WRAPPING AND BINDING MATERIAL
MADE OF SYNTHETICS OR PLASTICS SHALL BE REMOVED FROM THE TOP OF THE BALL AT THE TIME OF
PLANTING. IF THE PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, THE WIRE BASKET
SHALL BE CUT AND FOLDED DOWN 8 INCHES INTO THE PLANTING HOLE. WITH CONTAINER GROWN STOCK,
THE CONTAINER SHALL BE REMOVED AND THE ROOT BALL SHALL BE CUT THROUGH THE SURFACE IN TWO HE CONTAINER SHALL BE REMOVED AND THE ROOT BALL SHALL BE CUT THROUGH THE SURFACE IN TWO

D. THE CONTRACTOR SHALL HAVE TREES AND SHRUBS DELIVERED TO SITE AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND PLANT IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN 6 HOURS AFTER DELIVERY, THE CONTRACTOR SHALL SET TREES AND SHRUBS IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE AND KEEP ROOTS MOIST BY COVERING WITH MULCH, BURLAP OR OTHER ACCEPTABLE MEANS OF RETAINING MOISTURE.

11. ALL LANDSCAPED AREAS TO BE CLEARED OF ROCKS, STUMPS, TRASH AND OTHER UNSIGHTLY DEBRIS. ALL FINE GRADED AREAS SHOULD BE HAND RAKED SMOOTH ELIMINATING ANY CLUMPS AND AND UNEVEN SURFACES PRIOR 13. NEW PLANT MATERIAL SHALL BE GUARANTEED TO BE ALIVE AND IN VIGOROUS GROWING CONDITION FOR A PERIOD OF ONE YEAR FOLLOWING ACCEPTANCE BY THE OWNER. PLANT MATERIAL FOUND TO BE UNHEALTHY, DYING OR DEAD DURING THIS PERIOD, SHALL BE REMOVED AND REPLACED IN KIND BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.

14. THE CONTRACTOR SHALL KEEP AREA CLEAN DURING DELIVERY AND INSTALLATION OF PLANT MATERIALS. REMOVE AND DISPOSE OF OFF-SITE ANY ACCUMULATED DEBRIS OR UNUSED MATERIALS. REPAIR DAMAGE TO ADJACENT AREAS CAUSED BY LANDSCAPE INSTALLATION OPERATIONS.

PLANTS SHALL THEN BE WATERED WEEKLY OR AS REQUIRED BY SITE AND WEATHER CONDITIONS TO MAINTAIN VIGOROUS AND HEALTHY PLANT GROWTH.

16. THE BACKFILL MIXTURE AND SOIL MIXES TO BE INSTALLED PER THE SPECIFICATIONS. 17. AFTER PLANT IS PLACED IN TREE PIT LOCATION, ALL TWINE HOLDING ROOT BALL TOGETHER SHOULD BE

18. MULCH SHOULD NOT BE PILED UP AROUND THE TRUNK OF ANY PLANT MATERIAL. NO MULCH OR TOPSOIL SHOULD BE TOUCHING THE BASE OF THE TRUNK ABOVE THE ROOT COLLAR.

 ALL FENCE INSTALLATION SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF ANY LANDSCAPE PLANTING, LAWN AND GRASSES, OR IRRIGATION WORK. 20. FOR ANY DISCREPANCIES BETWEEN THE PLANT SCHEDULE AND PLANTING PLAN THE GRAPHIC QUANTITY SHOWN

21. PLANT MATERIALS SHALL NOT BE PLANTED UNTIL THE FINISHED GRADING HAS BEEN COMPLETED. 22. ALL PLANT INSTALLATIONS SHALL BE COMPLETED EITHER BETWEEN APRIL 1 — JUNE 15 OR AUGUST 15 — NOVEMBER 1, UNLESS OTHERWISE DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT. SEE LAWN SEEDING DATES IN SEEDING NOTES.

LAWN WATERING SCHEDULE

THE FOLLOWING WATERING SCHEDULE COVERS ROUGHLY 8 WEEKS TO ESTABLISH A HEALTHY STAND OF GRASS FROM SEED. THE CONTRACTOR SHALL BE OBLIGATED TO ENSURE A HEALTHY STAND OF GRASS AT THE END OF THE REESTABLISHED PRIOR TO THE END OF THE MAINTENANCE/BOND PERIOD AND TO THE SATISFACTION OF THE PROJECT LANDSCAPE ARCHITECT AND THE OWNER. IMPORTANT ASPECTS TO ATTAINING AND SUSTAINING A HEALTHY STAND OF GRASS ARE THE INSTALLATION OF TOPSOIL, SEED BED PREPARATION, ATTAINING OPTIMAL pH FOR THE INTENDED PLANT SPECIES, FERTILIZING, MULCH COVERING, AND SUFFICIENT WATERING PER THESE NOTES AND/OR PROJECT SPECIFICATIONS.

SEEDING SHALL BE DONE DURING THE SEASONS SPECIFIED IN THE LAWN SEED MIX NOTES AND/OR PROJECT SPECIFICATIONS.

AFTER THE SEEDBED IS PREPARED, SEED IS INSTALLED, AND MULCH IS APPLIED, WATER LIGHTLY TO KEEP THE TOP 2 INCHES OF SOIL CONSISTENTLY MOIST, NOT SATURATED. AT NO TIME SHOULD WATER BE APPLIED TO THE POINT OF RUNOFF OR THE DISPLACEMENT OF SEED.

DEPENDING ON SOIL TEMPERATURES, IT MAY TAKE SEVERAL WEEKS FOR GERMINATION TO OCCUR. DIFFERENT SPECIES WITHIN THE MIX GERMINATE AT DIFFERENT TIMES AND THEREFORE CONTRACTOR SHOULD CONTINUE THE LIGHT WATERING, AS DESCRIBED ABOVE, UNTIL THERE IS AT LEAST 2 INCHES OF GROWTH THROUGHOUT.

4. AT THIS POINT, WATERING FREQUENCY MAY BE REDUCED TO EVERY 3 TO 5 DAYS. WATER SHALL BE APPLIED TO WET A 6 INCH MINIMUM SOIL DEPTH TO PROMOTE HEALTHY DEEP ROOTS.

LAWN SEED MIX

. LAWN SEED MIX: LESCO GRASS SEED - ALL PRO TRANSITION MIX (3 TURF-TYPE TALL-FESCUE

) NEW ESTABLISHMENT: SEED AT A RATE OF 6-8 LBS/1000 SQ FT

1. SEEDING SHALL TAKE PLACE IN THE SPRING (APRIL 1 TO JUNE 15) OR THE FALL (SEPTEMBER 1 TO

OCTOBER 15).

2. PROTECT ALL EXISTING TREES AND SHRUBS TO REMAIN PER TREE PROTECTION DETAILS. NO DRILL SEEDING OR HERBICIDE USE WITHIN DRIPLINE OF EXISTING TREES TO REMAIN.

3. ELIMINATE UNWANTED SHRUB AND BRUSH AND MOW ALL LAWN TO GRADE IN AREAS TO BE SEEDED PRIOR TO INSTALLATION.

4. ELIMINATE REMAINING VEGETATION PRIOR TO SEEDING USING A NON-SELECTIVE HERBICIDE PER MANUFACTURED. SPECIFICATIONS

MANUFACTURER'S SPECIFICATIONS.

5. ALL AREAS NOT DISTURBED DUE TO SITE GRADING SHALL NOT BE TILLED. A TRUAX—TYPE DRILL SEEDER SHALL BE USED IN THOSE LOCATIONS. IN ALL REMAINING AREAS TO BE SEEDED, CONTRACTOR IS TO SUBMIT SEEDING METHODOLOGY TO PROJECT LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL BY CONSERVATION COMMISSION PRIOR TO SEEDING.

6. THERE MUST BE CONTINUOUS SOIL MOISTURE FOR 4—6 WEEKS TO ALLOW PROPER GERMINATION.

BEGIN MAINTENANCE IMMEDIATELY AFTER EACH PORTION OF LAWN IS PLANTED AND CONTINUE FOR 8
WEEKS AFTER ALL LAWN PLANTING IS COMPLETED.

WATER TO KEEP SURFACE SOIL MOIST, REPAIR WASHED OUT AREAS BY FILLING WITH TOPSOIL, LIMING, FERTILIZING AND RE-SEEDING; MOW TO 2 1/2-3 INCHES AFTER GRASS REACHES 3 1/2 INCHES IN HEIGHT, AND MOW FREQUENTLY ENOUGH TO KEEP GRASS FROM EXCEEDING 3 1/2 INCHÉS. WEED BY LOCAL SPOT APPLICATION OF SELECTIVE HERBICIDE ONLY AFTER GRASS IS WELL-ESTABLISHED.

PLANTING SOIL SPECIFICATIONS

PLANTING SOIL, ALTERNATELY MAY BE REFERRED TO AS TOPSOIL, SHOULD BE FRIABLE, FERTILE, WELL DRAINED, FREE OF DEBRIS, TOXINS, TRASH AND STONES OVER 1/2" DIA., IT SHOULD HAVE A HIGH ORGANIC CONTENT SUITABLE TO SUSTAIN HEALTHY PLANT GROWTH AND SHOULD LOOK AESTHETICALLY PLEASING HAVING NO NOXIOUS

REUSE SURFACE SOILS STOCKPILED ON SITE, VERIFYING COMPLIANCE WITH PLANTING SOIL AND TOPSOIL CRITERIA IN THIS SPECIFICATION THROUGH TESTING. CLEAN SURFACE SOIL OF ALL ROOTS, PLANTS, SOD, AND GRAVEL OVER 1" IN DIAMETER AND DELETERIOUS MATERIALS. IF ON-SITE SOILS ARE TO BE USED FOR PROPOSED PLANTING, THE CONTRACTOR SHALL DEMONSTRATE, THROUGH SOIL TESTING, THAT ON-SITE SOILS MEET THE SAME CRITERIA AS INDICATED IN NOTES PLANS AND SPECIFICATIONS. SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF SITE SOURCES WHEN TOPSOIL AND PLANTING SOIL QUANTITIES ARE INSUFFICIENT. OBTAIN SOIL DISPLACED FROM NATURALLY WELL-DRAINED SITES WHERE OPSOIL OCCURS AT LEAST 4" DEEP. DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS, MARSHES OR

CONTRACTOR SHALL TEST SOILS AND FURNISH SAMPLES UPON REQUEST. PACKAGED MATERIALS SHALL BE UNOPENED BAGS OR CONTAINERS, EACH BEARING A NAME, GUARANTEE, AND TRADEMARK OF THE PRODUCER MATERIAL COMPOSITION, MANUFACTURER'S CERTIFIED ANALYSIS, AND THE WEIGHT OF THE MATERIALS. SOIL OR AMENDMENT MATERIALS SHALL BE STORED ON SITE TEMPORARILY IN STOCKPILES PRIOR TO PLACEMENT AND SHALL BE PROTECTED FROM INTRUSION OF CONTAMINANTS AND EROSION. AFTER MIXING, SOIL MATERIALS SHALL BE COVERED WITH A TARPAULIN UNTIL TIME OF ACTUAL USE.

ALL PLANTING SOILS SHALL BE SUBMITTED FOR TESTING TO THE STATE COOPERATIVE EXTENSION SERVICE, OR APPROVED EQUAL, PRIOR TO DELIVERY TO THE SITE. CONTRACTOR SHALL FURNISH SOIL SAMPLES AND SOIL TEST RESULTS TO LANDSCAPE ARCHITECT OR OWNER AT A RATE OF ONE SAMPLE PER 500 CUBIC YARDS TO ENSURE CONSISTENCY ACROSS THE TOTAL VOLUME OF PLANTING SOIL REQUIRED. TEST RESULTS SHALL EVALUATE FOR ALL CRITERIA LISTED IN THIS SPECIFICATION. IF TESTING AGENCY DETERMINES THAT THE SOILS ARE DEFICIENT IN ANY MANNER AND MAY BE CORRECTED BY ADDING AMENDMENTS, THE CONTRACTOR SHALL FOLLOW STATED RECOMMENDATIONS FOR SOIL IMPROVEMENT AND FURNISH SUBMITTALS FOR ALL AMENDMENTS PRIOR TO DELIVERY OF SOIL TO THE PROJECT SUF

. THE FOLLOWING TESTING SHOULD BE PERFORMED AND RESULTS GIVEN TO THE LANDSCAPE ARCHITECT FOR a. PARTICLE SIZE ANALYSIS - LOAMY SAND: 60-75% SAND, 25-40% SILT, AND 5-15% CLAY.

b. FERTILITY ANALYSIS: ph (5.5-6.5), SOLUBLE SALTS (LESS THAN 2 MMHO/CM), NITRATE, PHOSPHATE, POTASSIUM, CALCIUM AND MAGNESIUM c. ORGANIC MATTER CONTENT: 2.5-5% IN NATIVE SOILS; UP TO 10% IN AMENDED SOILS d. TOXIC SUBSTANCE ANALYSIS

e. MATERIAL DRAINAGE RATE: 60% PASSING IN 2 MINUTES, 40% RETAINED

f. NOT MORE THAN 1% OF MATERIAL SHALL BE RETAINED BY A #4 SIEVE

SOIL AMENDMENT FOR PLANT MATERIAL:

IF SOIL ORGANIC CONTENT IS INADEQUATE, SOIL SHALL BE AMENDED WITH COMPOST OR ACCEPTABLE, WEED FREE, ORGANIC MATTER. ORGANIC AMENDMENT SHALL BE WELL COMPOSTED, PH RANGE OF 6-8; MOISTURE CONTENT 35-55% BY WEIGHT 100% PASSING THROUGH 1" SIEVE; SOLUBLE SALT CONTENT LESS THAN 0.5 MM HOS/CM; A ORGANIC MATTER AS A SOIL AMENDMENT: LEAF MOLD WITH 60-90% ORGANIC CONTENT BY WEIGHT, SHREDDER

LEAF LITTER, COMPOSTED FOR A MINIMUM OF 1 YR. SHOULD BE FREE OF DEBRIS, STONES OVER 1/2", WOOD B. SOIL IN BEDS AND PLANTING ISLANDS OTHER THAN BACKFILL MATERIAL AND TOPSOIL, SHOULD BE FRIABLE, WELL DRAINED, AND FREE OF DEBRIS, INCLUDING STONES AND TRASH.

: AMENDMENTS FOR BACK FILL IN TREE AND SHRUB PITS:

a. GROUND LIMESTONE (WITH A MIN. OF 88% OF CALCIUM AND MAGNESIUM CARBONATES) USED PENDING RESULTS OF SOIL ANALYSIS. BRING pH LEVELS TO 5.5 MIN. TO 6.5 FOR NON-ERICACEOUS PLANTS - BRING PH LEVELS TO 4.5 MIN. TO 5.5 FOR ERICACEOUS PLANTS

b. TERRA-SORB BY 'PLANT HEALTH CARE' 800-421-9051 (SEE MANUFACTURER RECOMMENDATIONS) USED IN PLANTER BACKFILL MIXTURE WITH TREES AND SHRUBS. c. MYCOR-ROOT SAVER BY 'PLANT HEALTH CARE' 800-421-9051 (SEE MANUFACTURER RECOMMENDATIONS) USED IN BACKFILL MIXTURE WITH TREES.

. WHERE PLANTING AREAS ARE PROPOSED FOR FORMER PAVED OR GRAVEL AREAS, BEDS SHALL BE EXCAVATED TO A MINIMUM 30" DEPTH AND, AT A MINIMUM, BE BACKFILLED WITH BOTTOM LAYER OF SANDY LOAM (ORGANIC

LANDSCAPE FILL MATERIAL, BELOW PLANTING SOILS, SHALL HAVE THE PHYSICAL PROPERTIES OF A SANDY LOAM WITH AN ORGANIC CONTENT OF LESS THAN 2% AND A PH BETWEEN 5-7. A. CONTRACTOR TO PROVIDE SIX INCHES (6") MINIMUM DEPTH PLANTING SOIL LAYER IN LAWN AREAS, TWELVE INCHES (12") MINIMUM DEPTH PLANTING SOIL LAYER IN GROUNDCOVER AND PERENNIAL AREAS, EIGHTEEN

B. SCARIFY AND/OR TILL COMPACTED SUBSOILS TO A MINIMUM DEPTH OF 6 INCHES. THOROUGHLY MIX A 6 INCH DEPTH LAYER OF PLANTING SOIL INTO THE SUBSOIL PRIOR TO PLACING PLANTING SOIL AT THE DEPTHS INDICATED ABOVE. PLANTING SOIL SHALL BE PLACED IN 12-18* LIFTS AND WATER THOROUGHLY BEFORE INSTALLING NEXT LIFT. REPEAT UNTIL DEPTHS AND FINISH GRADES HAVE BEEN ACHIEVED. NO SOILS SHALL BE PLACED IN A FROZEN OR MUDDY CONDITION.

C. PLANTING SOIL PRESENT AT THE SITE, IF ANY, MAY BE USED TO SUPPLEMENT TOTAL AMOUNT REQUIRED. CONTRACTOR TO FURNISH AN ANALYSIS OF ON-SITE PLANTING SOIL UTILIZED IN ALL PLANTING AREAS.

i. SOIL CONDITIONING:
A. ADJUST PH AND NUTRIENT LEVELS AS REQUIRED TO ENSURE AN ACCEPTABLE GROWING MEDIUM. LOWER PH USING ELEMENTAL SULFUR ONLY. PEAT MOSS OR COPPER SULFATE MAY NOT BE USED. GROUND LIMESTONE AS A SOIL AMENDMENT MATERIAL WILL ONLY BE USED PENDING RESULTS OF SOIL ANALYSIS. PROVIDE WITH MINIMUM 88% CALCIUM AND MAGNESIUM CARBONATES AND SHALL HAVE TOTAL 100% PASSING THE 10 MESH SIEVE, MINIMUM 90% PASSING 20 MESH SIEVE, AND MINIMUM 60% PASSING 100 MESH SIEVE. B. ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF AT THE CONTRACTOR'S

. SOIL MODIFICATIONS (PENDING RESULTS OF SOIL ANALYSIS): a. THOROUGHLY TILL ORGANIC MATTER (LEAF COMPOST) INTO THE TOP 6 TO 12 IN. OF MOST PLANTING SOILS TO IMPROVE THE SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE AVOID MATERIAL WITH A PH HIGHER THAN 7.0. PEAT MOSS MAY NOT BE USED AS ORGANIC MATTER AMEDIDENT

b MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (LIE TO 30% BY VOLUME) AND/OR GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. IMPROVE DRAINAGE IN HEAVY SOILS BY PLANTIN ON RAISED MOUNDS OR BEDS AND INCLUDING SUBSURFACE DRAINAGE LINES. c. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85% SAND) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.

LOCAL WETLAND REGULATION (SECTION 23) **VEGETATION REPLACEMENT NOTES**

PRIOR TO SHRUB AND TREE INSTALLATION THE ENTIRE AREA IS TO BE MOWED TO THE GROUND, TILLED, AND THEN PLANTED/SEEDED. AREA TO BE MONITORED AND IF HERBICIDE USE IS NECESSARY, A PLAN WILL BE DEVELOPED AND SUBMITTED TO THE CONSERVATION COMMISSION FOR APPROVAL PRIOR TO IMPLEMENTATION.

MEADOW SEED NOTES

MEADOW SEED MIX A - ERNST SEED MIX ERNMX-183 (NATIVE DETENTION AREA MIX) VIRGINIA WILDRYE % ELYMUS VIRGINICUS 20% PANICUM VIRGATUM, 'SHAWNEE'
4% AGROSTIS PERENNANS, ALBANY I
2% JUNCUS TENUIS
% JANCUS FFUSUS
% PANICUM RIGIDULUM SWITCHGRASS, 'SHAWNEE' SWITCHGRASS, SHAWNEE
AUTUMN BENTGRASS, ALBANY PINE BUSH
PATH RUSH
SOFT RUSH
REDTOP PANICGRASS

SEED AT A RATE OF 20 LBS/ACRE OF 100% PURE LIVE SEED.

MEADOW SEED MIX B - NEW ENGLAND WETLAND PLANTS - NEW ENGLAND ROADSIDE MATRIX UPLAND SEED MI PANICULATUM PANICLEDLEAF TICK TREFOIL LITTLE BLUESTEM SCHIZACHYRIUM SCOPARIUM ANDROPOGON GERARDII BIG BLUESTEM SORGHASTRUM NUTANS INDIAN GRASS STAGHORN SUMAC CORNUS AMOMUM SILKY DOGWOOD EVENING PRIMROSE BUTTERFLY MILKWEED ASCLEPIAS TUBEROSA RUDBECKIA HIRTA BLACK EYED SUSAN EUPATORIUM FISTULOSUM HOLLOW-STEM JOE PYE WEED

SEED AT A RATE OF 35 LB/ACRE OF 100% PURE LIVE SEED

 ${\color{red} \underline{\textbf{MEADOW SEED MIX C}}} - {\color{red} \textbf{ERNST NATIVE UPLAND WILDLIFE FORAGE \& COVER MEADOW MIX)}}$ 34.9% ANDROPOGON GERARDII, 'NIAGARA' BIG BLUESTEM, 'NIAGARA' 27.0% PANICUM VIRGATUM, 'CAVE-IN-ROCK' SWITCHGRASS, 'CAVE-IN-ROCK' VIRGINIA WILDRYE, 'MADISON' 21.0% ELYMUS VIRGINICUS, 'MADISON' 3.0% RUDBECKIA HIRTA PA ECOTYPE BLACKEYED SUSAN, PA ECOTYPI OXEYE SUNFLOWER, PA ECOTYPI 5% HELIOPSIS HELIANTHOIDES, PA ECOTYPE 0.4% DESMODIUM CANADENSE, PA ECOTYPE SHOWY TICKTREFOIL, PA ECOTYPE

SEED AT A RATE OF 20 LB/ACRE OF 100% PURE LIVE SEED

0.1% MONARDA FISTULOSA, PA ECOTYPE

ALL SEEDING LOCATIONS SHALL BE STAKED IN FIELD REVIEWED AND APPROVED PRIOR TO THE APPLICATION.
FINAL SEED MIXTURES, RATES & SPECIES TO BE DETERMINED BASED ON CONSERVATION COMMISSION REVIEW IN MASSACHUSETTS.

WILD BERGAMOT, PA ECOTYPE

3. SEEDING SHALL TAKE PLACE IN THE SPRING (APRIL 1 TO JUNE 15) OR THE FALL (SEPTEMBER 1 TO MANUFACTURER'S SPECIFICATIONS. CONTRACTOR TO ENSURE HERBICIDE IS INDICATED FOR USE AROUND WATER BODIES.

IT IS RECOMMENDED THAT CONTRACTOR INSTALL SEED MIXTURE USING A NO-TILL TRUAX-TYPE DRILL

WHERE APPLICABLE.

THERE MUST BE CONTINUOUS SOIL MOISTURE FOR 4-6 WEEKS TO ALLOW PROPER GERMINATION. 1. DURING THE ESTABLISHMENT YEAR, CONTRACTOR SHALL MOW SEEDING IF WEED HEIGHT EXCEEDS MEADON MIX HEIGHT. MOW AT A HEIGHT OF 8"-10". DO NOT MOW CLOSE, AS SOME OF THE MEADOW MIX MAY BE DAMAGED.

AFTER THE FIRST GROWING SEASON, AND IF MEADOW MIX IS WELL ESTABLISHED, THE MEADOW MIX SHALL

AFTER THE FIRST GROWING SEASON, AND IF MEADOW MIX IS WELL ESTABLISHED, THE MEADOW MIX SHALL

AND ADDRESS OF THE PROPERTY OF THE MEADOW MIX SHALL BE DONE IN OCTOBER.

2. AFTER THE FIRST GROWING SEASON, AND IF MEADUW MIA IS WELL ESTABLISHED, THE MEADUW MIA STALL BE MOWED ONLY ONCE ANNUALLY. ANNUAL MAINTENANCE MOWING SHALL BE DONE IN OCTOBER.

3. MOW IN DETENTION BASIN AND WETLAND TRANSITION AREAS DURING DRIER SITE CONDITIONS WHEN SOIL DISTURBANCE WILL NOT OCCUR. MAINTENANCE FOR DETENTION BASIN AND WETLAND TRANSITION AREAS SHALL OCCUR DURING LATE SUMMER (JULY 15 – AUGUST 15) WHEN THE WATER TABLE IS USUALLY AT ITS LOWEST POINT OF THE YEAR. DO NOT MOW IN DETENTION BASIN, WETLAND OR WETLAND TRANSITION AREAS AFTER ESTABLISHMENT OF MEADOW MIX.

LANDSCAPE MAINTENANCE NOTES

MAINTENANCE OPERATIONS BEFORE APPROVAL:

A. PLANT CARE SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS SATISFACTORILY INSTALLED AND SHALL CONTINUE THROUGHOUT THE LIFE OF THE CONTRACT UNTIL FINAL ACCEPTANCE OF THE PROJECT.

C. CONTRACTOR SHALL REMOVE AND REPLACE ALL DEAD, DEFECTIVE AND/OR REJECTED PLANTS AS 2. MAINTENANCE DURING CONSTRUCTION:

3. MOWING MAINTENANCE(LAWN):

A. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING. PLANTS SHALL BE WATERED, MULCHED WEEDED, PRUNED, SPRAYED, FERTILIZED, CULTIVATED, AND OTHERWISE MAINTAINED AND PROTECTED UNTIL PROVISIONAL ACCEPTANCE. SETTLED PLANTS SHALL BE RESET TO PROPER GRADE AND POSITION, PLANTING SAUCER RESTORED AND DEAD MATERIAL REMOVED. STAKES AND WIRES SHALL BE GORRECTED AS SOON AS POSSIBLE AFTER IT BECOMES APPARENT AND WEATHER AND SEASON PERMIT.

B. IF A SUBSTANTIAL NUMBER OF PLANTS ARE SICKLY OR DEAD AT THE TIME OF INSPECTION. ACCEPTANCE SHALL NOT BE GRANTED AND THE CONTRACTOR'S RESPONSIBILITY FOR MAINTENANCE OF ALL PLANTS SHALL BE EXTENDED FROM THE TIME REPLACEMENTS ARE MADE OR EXISTING PLANTS ARE DEEMED ACCEPTABLE BY THE LANDSCAPE ARCHITECT.

C. ALL REPLACEMENTS SHALL BE PLANTS OF THE SAME KIND AND SIZE SPECIFIED ON THE PLANT LIST OR THAT WHICH WAS TO REMAIN OR BE RELOCATED. THEY SHALL BE FURNISHED AND PLANTED AS SPECIFIED. THE COST SHALL BE BORNE BY THE CONTRACTOR. REPLACEMENTS RESULTING FROM REMOVAL, LOSS, OR DAMAGE DUE TO OCCUPANCY OF THE PROJECT IN ANY PART, VANDALISM, PHYSICAL DAMAGE BY ANIMALS, VEHICLES, ETC., AND LOSSES DUE TO CURTAILMENT OF WATER BY LOCAL AUTHORITIES SHALL BE APPROVED AND PAID FOR BY THE OWNER.

D. PLANTS SHALL BE GUARANTEED FOR A PERIOD OF TWO YEARS AFTER INSPECTION AND PROVISIONAL

E. AT THE END OF THE ESTABLISHMENT PERIOD, INSPECTION SHALL BE MADE AGAIN. ANY PLANT REQUIRED UNDER THIS CONTRACT THAT IS DEAD OR UNSATISFACTORY TO THE LANDSCAPE ARCHITECT OR OWNER SHALL BE REMOVED FROM THE SITE AND REPLACED DURING THE NORMAL PLANTING SEASON.

A. BEGIN MOWING ONCE PER WEEK AFTER THE GRASS HAS REACHED 3 INCHES HEIGHT. MOW TO A HEIGHT OF NO LESS THAN 2-½ INCHES. AFTER 2 TO 3 WEEKS OF MOWING, CONTINUE TO WATER TO A 6 INCH MINIMUM SOIL DEPTH AS NECESSARY PER WEATHER CONDITIONS, AND SOIL MOISTURE SENSORS IF APPLICABLE.

TREE PROTECTION NOTES:

OF LOWEST BRANCH (TYP.)

10'-0" OR 12" BELOW

BOTTOM TREE BRANCH.

WHICHEVER IS LESS (TYP.)

ALL EXISTING TREES WITHIN THE LIMITS OF TREE PROTECTION FENCING, SHALL BE PROTECTED THOUGHOUT THE DURATION OF WORK. TREE
PROTECTION FENCING SHALL BE INSTALLED AT THE DRIP—LINE OF THE PROTECTED TREE UNLESS CONDITIONS WARRANT THE FENCE TO BE
LOCATED WITHIN THE LIMIT OF BRANCHING. THE PROJECT LANDSCAPE ARCHITECT TO APPROVE THE LOCATION OF ALL FENCING PRIOR TO
PROJECT AND THE PROJECT PROJECT LANDSCAPE ARCHITECT TO APPROVE THE LOCATION OF ALL FENCING PRIOR TO

2. TREE_PROTECTION PLANKING SHALL BE INSTALLED AROUND ALL EXISTING TREES AS NOTED ON THIS DRAWING. REFER TO DETAIL ON THIS

3. TREE PROTECTION FENCING SHALL BE MAINTAINED TO PROTECT TREES AT ALL TIMES. ANY DAMAGED FENCING SHALL BE IMMEDIATELY

4. IF TREE PROTECTION FENCING NEEDS TO BE MOVED OR BREACHED DUE TO TEMPORARY CONSTRUCTION ACTIVITY WITHIN THE TREE PROTECTION ZONE, THE FENCING WILL BE RESET TO ITS ORIGINAL LOCATION IMMEDIATELY AFTER CONSTRUCTION WITHIN THE TREE PROTECTION ZONE IS COMPLETE.

DEMOLITION WORK ADJACENT TO PROTECTED TREES SHALL BE PERFORMED BY NON-MECHANICAL METHODS. CONTRACTOR TO PROTECT ROOT MASS AGAINST DAMAGE DURING EXCAVATION. ANY TREE ROOTS THAT ARE DISTURBED, BROKEN, OR CUT SHALL BE PRUNED BACK WITH CLEAN SHARP TOOLS.

6. ALL EXPOSED TREE ROOTS SHALL BE THOROUGHLY IRRIGATED ON A DAILY BASIS AS DIRECTED BY THE PROJECT LANDSCAPE ARCHITECT. 7. ALL WORK TO BE PERFORMED UNDER THE DIRECT SUPERVISION OF EITHER THE OWNER'S REPRESENTATIVE OR THE PROJECT LANDSCAPE ARCHITECT

8. TREES TO BE REMOVED SHALL BE MARKED IN THE FIELD PER THE PLAN AND TREES TO REMAIN SHALL BE MARKED IN THE FIELD AND TREE PRESERVATION AREA (TYP.) LIMIT OF TREE PROTECTION FENCE RADIUS SHALL BE 18 TIMES TH MEASURED DIAMETER AT BREAST 12" TO BOTTOM OF BRANCH COLLAR-

> HIGH STEEL POSTS SET 2'-0" INTO GROUND POSTS TO BE SPACED MAXIMUM 8'-0" APART. - PLANKS 12" TO TOP OF ROOT FLARE (TYP.) TREE PRESERVATION SIGN

2" X 4" WOOD PLANKING WRAPPED AROUND TREE TRUNK. PLANKING SECURED BY WIRE & STAPLES.

OO NOT PENETRATE BARK WITH STAPLES. (ONL)

√4'-0" HIGH SNOW FENCE ATTACHED TO 7'-0"

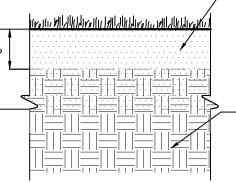
TREE PROTECTION FENCE.)

REQUIRED WHEN WORK IS BEING PERFORMED WITHIN

NTS

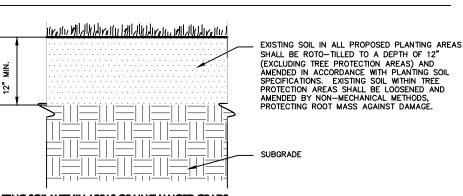
TREE PROTECTION FENCE AND PLANKING

DUE TO GENERAL CONSTRUCTION ACTIVITIES AND ADJACENT SITE COMPACTION REQUIREMENTS, SUBGRADE SOILS WITHIN PROPOSED PLANTING AREAS TEND TO BECOME HIGHLY COMPACTED. IN ORDER TO CREATE A HEALTHY GROWTH MEDIUM TO ALLOW PROPOSED PLANTINGS TO ESTABLISH A VIGOROUS ROOT MASS, THIS SUBGRADE SOIL MUST UNDERGO A RESTORATION PROCESS. IN ADDITION, IMPORTED OR AMENDED EXISTING SOILS SHALL BE MIXED WITH SUBGRADE SOILS WHERE THEY MEET IN ORDER TO CREATE A TRANSITIONAL GRADIENT TO ALLOW FOR PROPER DRAINAGE. INTO SUBGRADE TO A DEPTH OF 12".



*EXISTING SOIL STRIPPED FROM SITE CAN BE USED FOR PLANTING SOIL UPON APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT. CONTRACTOR SHALL REFER TO PLANTING SOIL SPECIFICATIONS FOR REQUIRED SUBMITTALS.

PLANTING SOIL WITHIN AREAS OF CUT OR RAISED GRADE



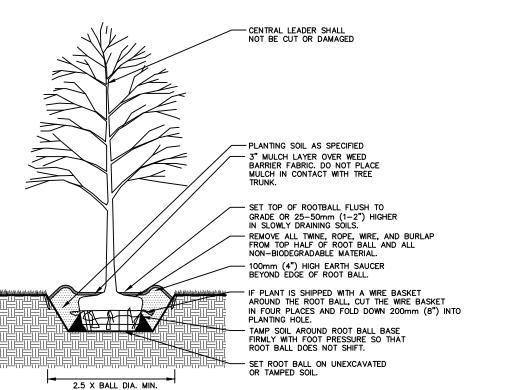
CONTRACTOR IS RESPONSIBLE TO SEND SAMPLES OF EXISTING SOILS INTENDED FOR USE IN PLANTING AREAS (1 PER 500 CY.) TO TESTING LABORATORY OR UNIVERSITY COOPERATIVE EXTENSION FOR TESTING. ALL TESTING COSTS ARE AT THE

2. RECYCLED CRUSHED CONCRETE AND ASPHALT MILLINGS SHALL NOT BE PLACED WITHIN 2'-6" OF FINISH GRADE IN PROPOSED LANDSCAPE AREAS. 3. IMPORTED FILL SHALL CONTAIN NO CONTAMINATION IN EXCEEDENCE OF THE APPLICABLE STATE ENVIRONMENTAL STANDARDS AND MEET THE ENVIRONMENTAL REQUIREMENTS FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION OF COMPLIANCE PRIOR TO DELIVERY OF ANY FILL TO THE SITE.

4. CONTRACTOR TO LIGHTLY COMPACT ALL PLACED PLANTING SOILS AND RAISE GRADES ACCORDINGLY TO ALLOW FOR FUTURE SETTLEMENT OF PLANTING SOILS (TYP.) 5. NO STONES, WOOD CHIPS, OR DEBRIS LARGER THAN 1/2" SHALL BE ACCEPTABLE WITHIN PLANTING AREAS.

PLANTING SOII

NTS



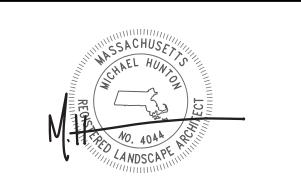
TREE PLANTING

NTS

LARGE SHRUB (B&B) SMALL SHRUB (CONTAINER) -REMOVE ALL TWINE, ROPE AND WIRE, AND BURLAP FROM TOP HALF OF ROOT BALL AND ALL NON-BIODEGRADABLE MATERIAL —IF PLANT IS SHIPPED WITH A WRE BASKET AROUND THE ROOT BALL, CUT THE WRE BASKET _3" MULCH LAYER. KEEP MULCH AWAY FROM SHRUB BASE AND TOP OF ROOTBALL (TYP.). - REMOVE PLASTIC CONTAINER 3 TIMES ROOTBALL DIA. SHRUB AND ORNAMENTAL GRASS PLANTING

> NOI COMMENT REVISIONS 08/24/23 NOI COMMENT REVISIONS Date Description

> > Revisions



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MEDWAY BATTERY **ENERGY STORAGE SYSTEM**

MASSACHUSETT

NORFOLK COUNTY

Drawing Title

| PLANTING DETAILS

Project No. Drawing No. 151033401 _P501 06/08/2023 rawn By hecked By

Date: 10/3/2023 Time: 18:08 User: vcizik Style Table: Langan.stb Layout: LP501 Document Code: 151033401-0501-LP501-0101

SECTION REQUIRED / PERMITTED PROVIDED / PROPOSED COMPLIANCE THE REPLACEMENT OF VEGETATION SHALL BE ACCORDING TO THE FOLLOWING TABLE: TOTAL TREES REQUIRED: 30 TREES FOR EVERY EXISTING TRUNK (DBH) REPLACEMENT QUANTITY 23. F. 1 COMPLIES TOTAL TREES PLANTED: 31 TREES 3 TO 8 INCHES 8 TO 20 INCHES > 20 INCHES

TOWN OF MEDWAY - WETLAND BYLAW COMPLIANCE CHART