

LINCOLN — CONCORD

ROUTE 2

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	HSR-0028(311) GM-0028(311) STP-0028(311)	263	445
PROJECT FILE NO. 602984			

LANDSCAPE NOTES

LANDSCAPE NOTES

(REFER TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION)

GENERAL

1. PLANTINGS INDICATED IN LANDSCAPE LEGEND—EXISTING FEATURES MAY BE DONE BY OTHERS. CONTRACTOR SHALL COORDINATE, COOPERATE AND SCHEDULE THE WORK BY OTHERS WHERE REQUIRED AND AS REQUESTED BY THE ENGINEER.
2. ALL SEEDING TYPES AND ASSOCIATED LOAMING (MANUFACTURED TOPSOIL) SHALL SHALL BE DONE BY THE CONTRACTOR. IN ADDITION ANY AREAS DISTURBED BY PLANTING OPERATIONS NOT SHOWN ON THE PLANS, AS DETERMINED BY THE ENGINEER, SHALL BE SEEDED ACCORDING TO TYPE(S) SHOWN ON THE DRAWINGS.

PLANTING NOTES

1. VERIFY THAT PROPOSED PLANTINGS DO NOT CONFLICT WITH UTILITIES IN THE FIELD BEFORE LAYING OUT PLANTINGS. ROOT BALLS OF PROPOSED TREES AND SHRUBS SHALL NOT BE LOCATED WITHIN 914 MILLIMETERS (3 FEET) OF AN EXISTING GAS MAIN OR OTHER UTILITY LINE OR FIXTURE.
2. SHRUBS AND TREE TRUNKS SHALL BE INSTALLED AND MAINTAINED 3.05M (10 FT.) CLEAR FROM ALL HYDRANTS AND STANDPIPES TO ENSURE THEIR VISIBILITY AT ALL TIMES.
3. WITHIN LANDSCAPED AREAS, ALL EXISTING OR PROPOSED INLET COVERS, GRATES, ETC. SHALL BE SET AND ADJUSTED BY THE CONTRACTOR TO BE FLUSH WITH THE FINISHED GRADE AT NO EXTRA COST TO THE DEPARTMENT.
4. ENGINEER SHALL REVIEW PLACEMENT OF PLANTS IN FIELD BEFORE INSTALLATION AFTER STAKING IN FIELD BY CONTRACTOR ACCORDING TO PLANTING PLANS AND DETAILS. THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY OF ANY CONFLICTS BETWEEN PROPOSED PLANT LOCATIONS AND BELOW GRADE UTILITIES, STRUCTURES, DRAINAGE PROBLEMS OR ANY OTHER PLANTING CONFLICT ENCOUNTERED OR ANTICIPATED AND REVIEWED WITH THE ENGINEER BEFORE CONSTRUCTION COMMENCES.
5. ALL PLANTS THAT ARE DELIVERED TO THE SITE AND NOT PLANTED IMMEDIATELY SHALL BE STORED AND WATERED PROPERLY, ACCORDING TO THE SPECIFICATIONS, IN SECURE LOCATIONS REVIEWED BY THE ENGINEER. ALL PLANTS SHALL HAVE A ONE-YEAR GUARANTEE, FROM THE TIME OF CONDITIONAL ACCEPTANCE.
6. TREES SHALL BE STAKED AND GUYED SECURELY AS INDICATED ON THE LANDSCAPE DETAILS.
7. ALL NEW PLANT MATERIAL WITHIN THE LANDSCAPE LIMIT OF WORK LINE SHALL BE PRUNED AFTER PLANTING ONLY TO REMOVE ALL DEAD OR DAMAGED BRANCHES. THE ENGINEER MAY REJECT ANY PLANT REQUIRING AN EXCESS OF PRUNING DUE TO DAMAGE. TREE WOUND DRESSING SHALL NOT BE USED ON ANY PLANTINGS. ALL NEW PLANTINGS SHALL BE WATERED AS NECESSARY FROM DELIVERY UNTIL THE END OF THE PLANT ESTABLISHMENT PERIOD.
8. ALL PLANTS SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS TO ORIGINAL GRADE BEFORE DIGGING, UNLESS OTHERWISE DETAILED, AND SHALL HAVE A MULCHED SAUCER ACCORDING TO DETAILS. PLANT PITS SHALL DRAIN, OR REMEDIAL UNDERDRAINAGE SHALL BE INSTALLED TO DRAIN INLETS. AT THE DIRECTION OF THE ENGINEER, PLANTS LOCATED IN AREAS THAT DO NOT DRAIN SHALL BE MOVED TO NEW LOCATIONS AT NO ADDITIONAL COST TO THE CONTRACT.
9. ALL PAPER, FIBER—POT, OR PLASTIC CONTAINERS AND PLASTIC OR IRON FASTENERS AND ROPE SHALL BE REMOVED FROM PLANTS BEFORE SETTING IN PLANT PIT. WIRE BASKETS AND TWINE SHALL BE CAREFULLY TRIMMED OFF AT LEAST THE TOP TWO THIRDS OF THE ROOTBALLS. ROOTBALLS SHALL BE HANDLED CAREFULLY SO AS TO NOT CRACK OR BREAK. PLANTS SHALL NOT BE LIFTED BY THEIR TRUNKS OR STEMS. UNTIE AND TURN DOWN BURLAP TWO-THIRDS, PER DETAIL.

GRADING NOTES

1. ANY DISCREPANCIES OR CONFLICTS ARISING BETWEEN THE GRADING (BY OTHERS) AND PLANTINGS TO BE DONE UNDER THIS CONTRACT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING.
2. THE CONTRACTOR’S WORK SHALL BE SCHEDULED TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PUDDLING. PROVIDE TEMPORARY POSITIVE DRAINAGE AS REQUIRED.
3. THE PROPOSED PLANTED AREAS SHALL BE PITCHED TO DRAIN. IF NOT OTHERWISE SHOWN PROPOSED PLANTED AREAS SHALL BE PITCHED IN A MINIMUM OF ONE PERCENT TOWARD A DRAIN INLET OR BASIN.
4. CONTRACTOR SHALL NOT DISTURB DRAINAGE CONDITIONS AND SHALL PROTECT EXISTING VEGETATION WITH TEMPORARY TREE PROTECTION FENCE AS DIRECTED BY THE ENGINEER. ALL AREAS WHERE EXISTING TREES AND VEGETATION WILL BE PRESERVED WILL BE REVIEWED ON SITE WITH THE ENGINEER PRIOR TO START OF WORK.

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	MS-0029(311)	264	445
PROJECT FILE NO. 602984			

LANDSCAPE PLAN
SHEET 1 OF 11

LEGEND

	1/3 LD-3	PROPOSED DECIDUOUS TREE		4 LD-3	PROPOSED VINE PLANTING
	2 LD-3	PROPOSED EVERGREEN TREE		6 LD-3	LOAM AND SEED MIX 1
	1/3 LD-3	PROPOSED ORNAMENTAL TREE		6 LD-3	LOAM AND SEED SWALES WITH MIX 2
	5 LD-3	PROPOSED SHRUB PLANTING		6 LD-3	LOAM AND SEED MIX 3
		EXISTING TREES TO REMAIN AND BE PROTECTED			

KEY PLAN

PROP. LIMIT OF
GRADING (TYP)

ROUTE 2 WESTBOUND

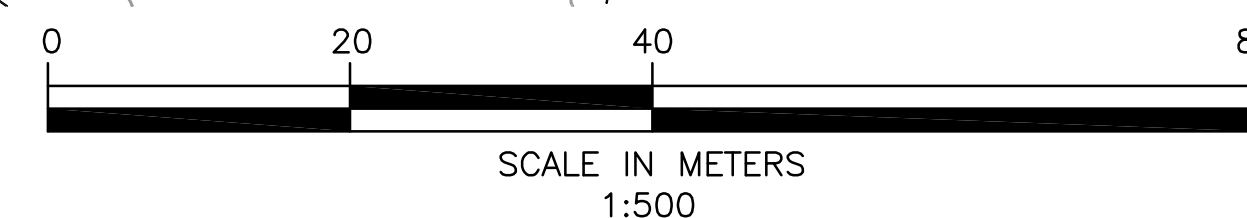
ROUTE 2 EASTBOUND

CONT. ON THIS SHEET

NOTES:

1. PROTECT EXISTING TREES ON BERM DURING CONSTRUCTION EXCEPT FOR THOSE SHOWN TO BE REMOVED.
2. CONSTRUCT APPROXIMATE 160 LF OF 4 FOOT-HIGH BERM.
3. LANDOWNER TO APPROVE PLANT LAYOUT ON PRIVATE PROPERTY PRIOR TO INSTALLATION.
4. BERM SHALL BE MULCHED UPON COMPLETION.
5. PLANTING REVISIONS TO BID SET PER 'LANDSCAPE REVISIONS ATTACHMENT #2-DRAKE PARK ROAD, NOVEMBER 19, 2014' DESIGN BY OTHERS AND PER MASSDOT COMMENTS MARCH 3, 2015.
6. MASSDOT LANDSCAPE ARCHITECT SHALL APPROVE LOCATIONS OF EVERGREEN SCREEN PLANTINGS PRIOR TO INSTALLATION.

03/09/2015	3	REVISE PLANTING
08/13/2014	2	ECN #6: ADD GUARDRAIL AT SANDY POND ROAD
12/19/2012	1	SLOPE REVISION
DATE	REV	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE		



CONT. ON THIS SHEET

CONT. ON SHEET NO. 265

LINCOLN - CONCORD

ROUTE 2

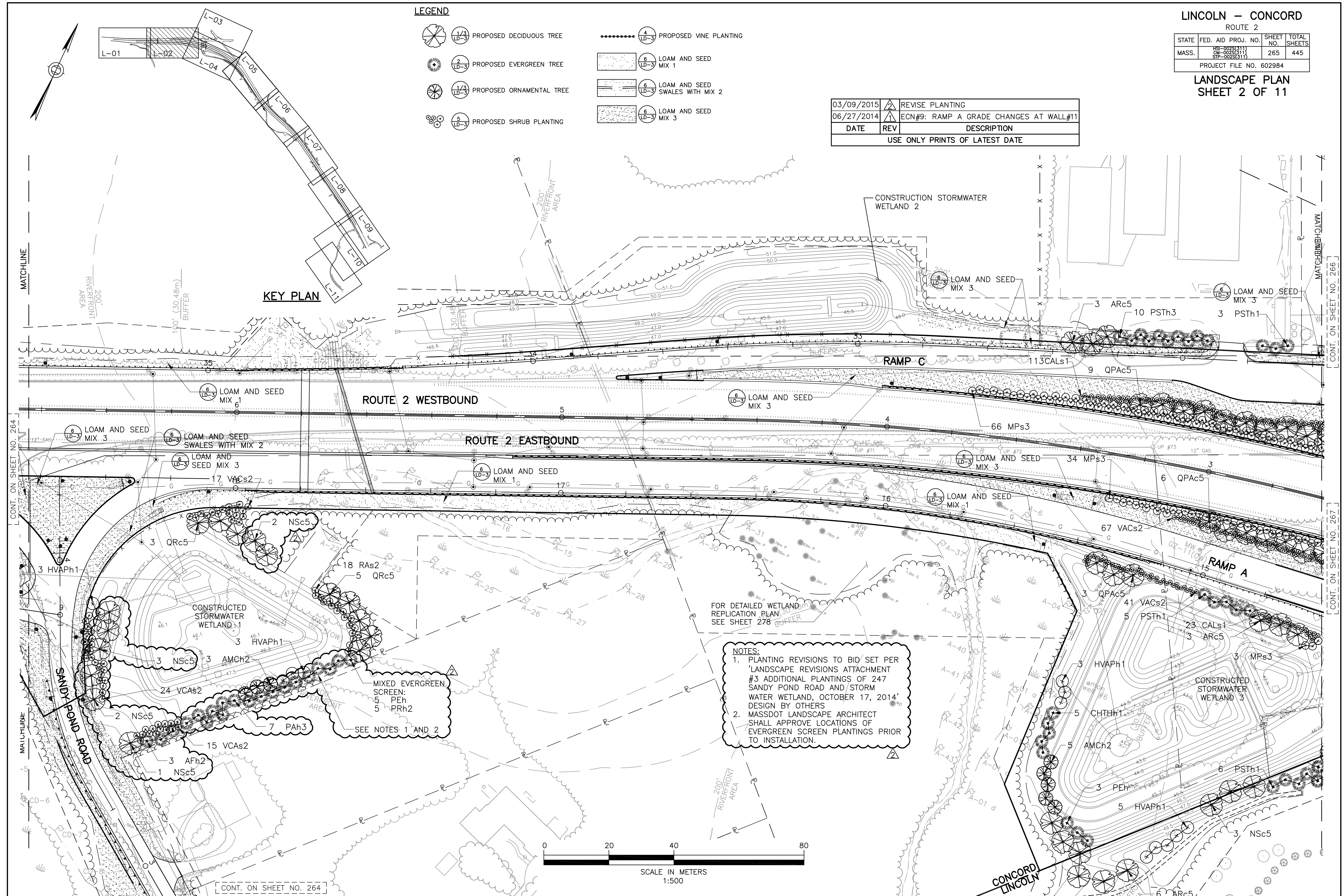
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	MS-0023(311) STP-0023(311)	265	445
PROJECT FILE NO. 602984			

LANDSCAPE PLAN SHEET 2 OF 11

LEGEND

		PROPOSED DECIDUOUS TREE		PROPOSED VINE PLANTING
		PROPOSED EVERGREEN TREE		LOAM AND SEED MIX 1
		PROPOSED ORNAMENTAL TREE		LOAM AND SEED SWALES WITH MIX 2
		PROPOSED SHRUB PLANTING		LOAM AND SEED MIX 3

03/09/2015	REV	REVISE PLANTING
06/27/2014	REV	ECN#9: RAMP A GRADE CHANGES AT WALL#11
DATE	REV	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE		



FOR DETAILED WETLAND REPLICATION PLAN SEE SHEET 278

NOTES:
 1. PLANTING REVISIONS TO BID SET PER 'LANDSCAPE REVISIONS ATTACHMENT #3' ADDITIONAL PLANTINGS OF 247 SANDY POND ROAD AND STORM WATER WETLAND, OCTOBER 17, 2014' DESIGN BY OTHERS
 2. MASSDOT LANDSCAPE ARCHITECT SHALL APPROVE LOCATIONS OF EVERGREEN SCREEN PLANTINGS PRIOR TO INSTALLATION.

CONT. ON SHEET NO. 264

CONT. ON SHEET NO. 266

CONT. ON SHEET NO. 267

LINCOLN — CONCORD

ROUTE 2

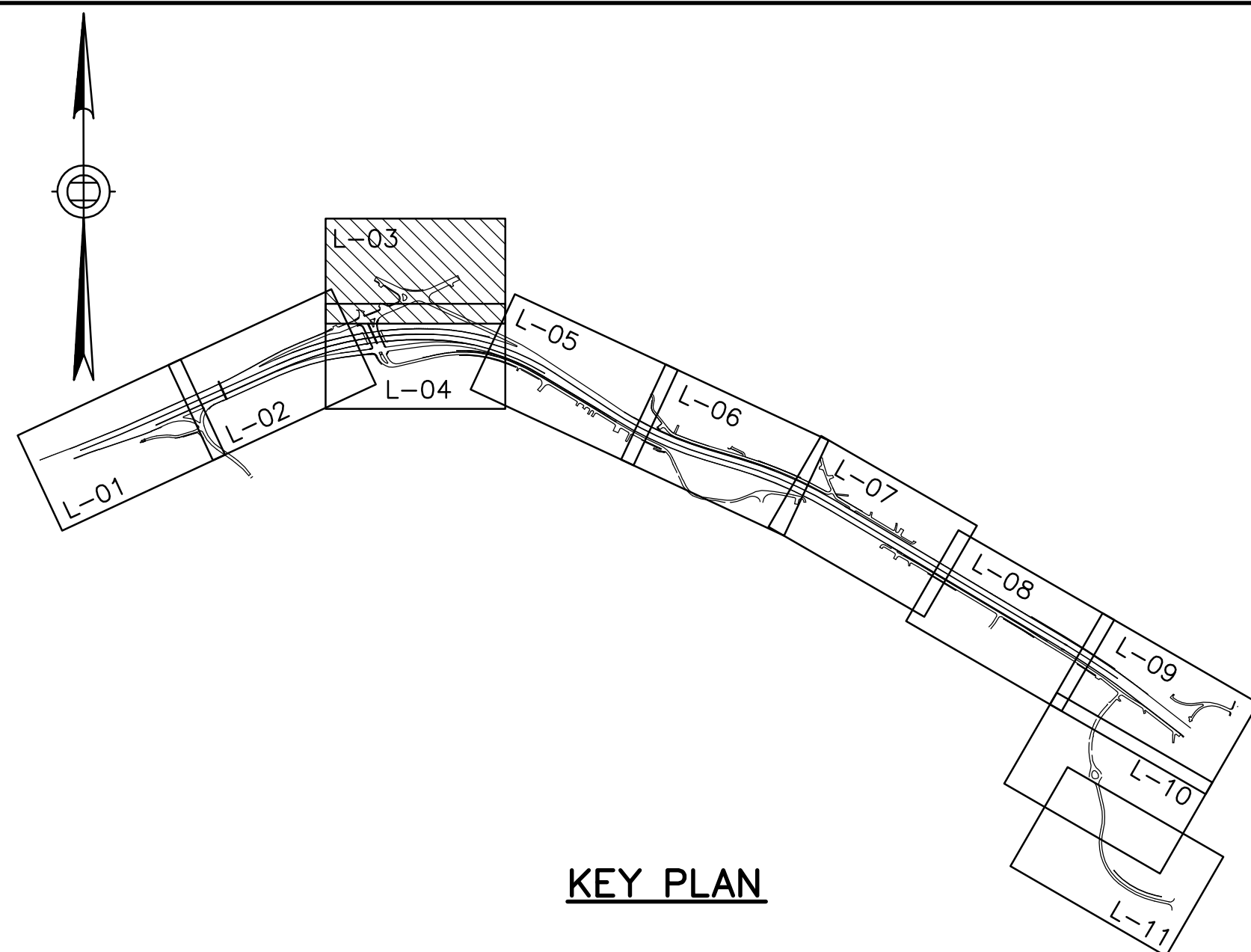
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	MS-0028(311) STP-0028(311)	266	445
PROJECT FILE NO. 602984			

LANDSCAPE PLAN SHEET 3 OF 11

LEGEND

	PROPOSED DECIDUOUS TREE		PROPOSED VINE PLANTING
	PROPOSED EVERGREEN TREE		LOAM AND SEED MIX 1
	PROPOSED ORNAMENTAL TREE		LOAM AND SEED SWALES WITH MIX 2
	PROPOSED SHRUB PLANTING		LOAM AND SEED MIX 3

03/09/2015	△	REVISE PLANTING
DATE	REV	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE		



KEY PLAN

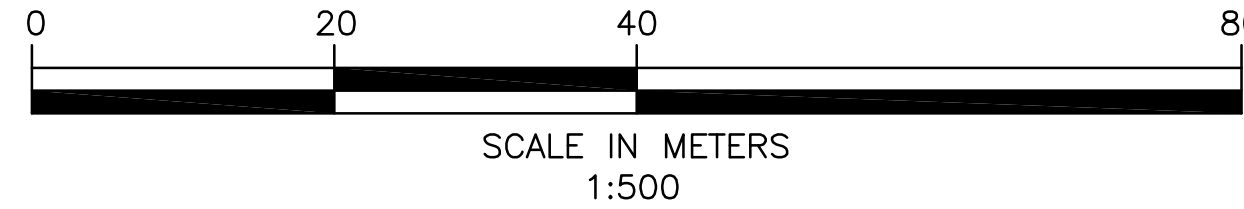
NOTES:
1. PLANTING REVISIONS TO BID SET PER 'LANDSCAPE REVISIONS ATTACHMENT #10 LANDSCAPE PLAN FOR ADDITIONAL SCREENING FOR LOTS 46 & 50, OCTOBER 16, 2014' DESIGN BY OTHERS.

CONCORD
LINCOLN

CONCORD TURNPIKE
(ROUTE 2A)

RAMP D

RAMP C



CONT. ON SHEET NO. 267

CONT. ON SHEET NO. 267

CONT. ON SHEET NO. 265



LINCOLN — CONCORD

ROUTE 2

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	MS-0023(311)	267	445

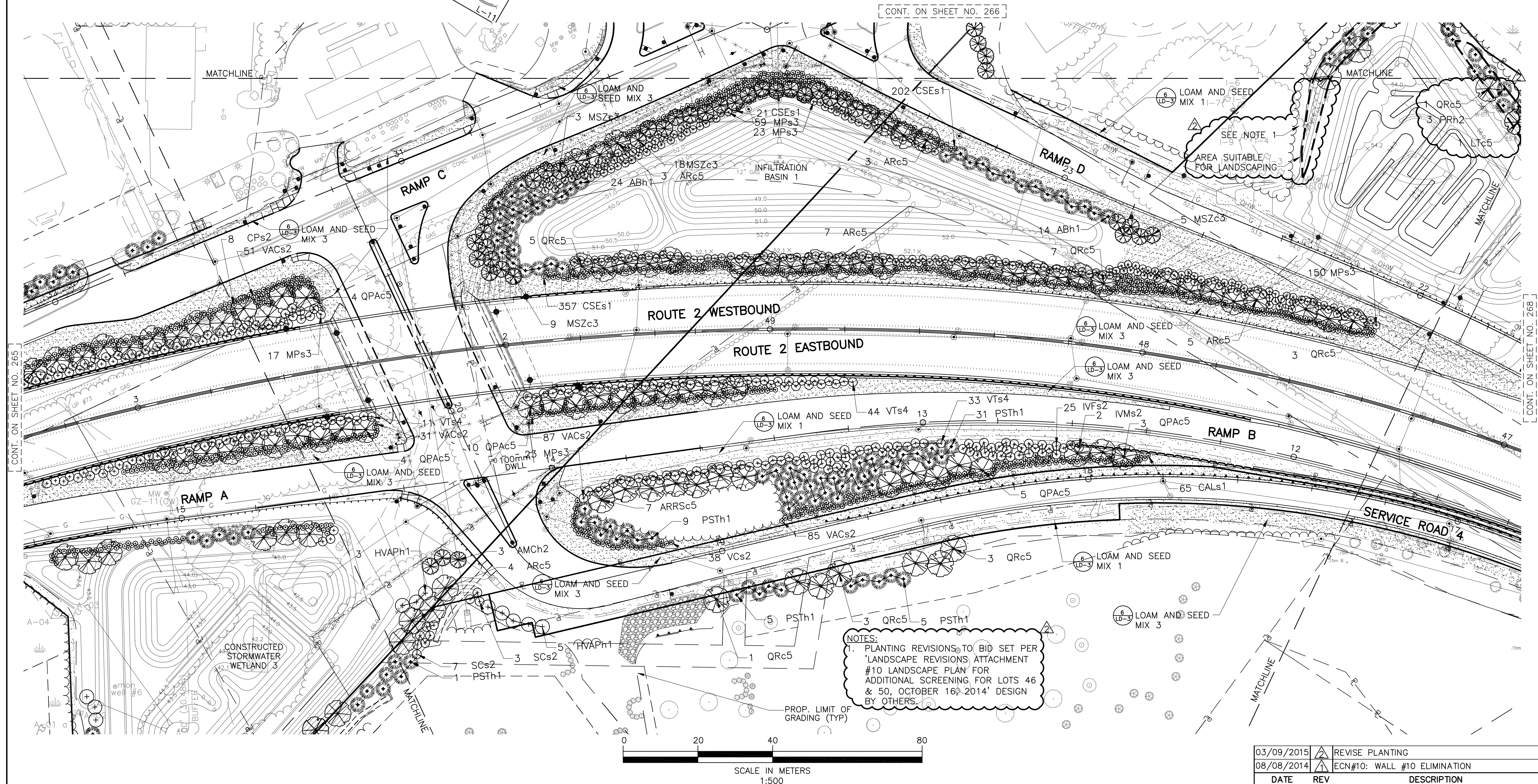
PROJECT FILE NO. 602984

LANDSCAPE PLAN SHEET 4 OF 11

LEGEND

- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN TREE
- PROPOSED ORNAMENTAL TREE
- PROPOSED SHRUB PLANTING
- PROPOSED VINE PLANTING
- LOAM AND SEED MIX 1
- LOAM AND SEED SWALES WITH MIX 2
- LOAM AND SEED MIX 3

KEY PLAN



03/09/2015	REVIS	PLANTING
08/08/2014	ECN#10:	WALL #10 ELIMINATION
DATE	REV	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE		

ROUTE 2

LANDSCAPE PLAN
SHEET 5 OF 11

$\frac{1}{3}$
 $\frac{1}{LD-3}$ PROPOSED DECIDUOUS TREE

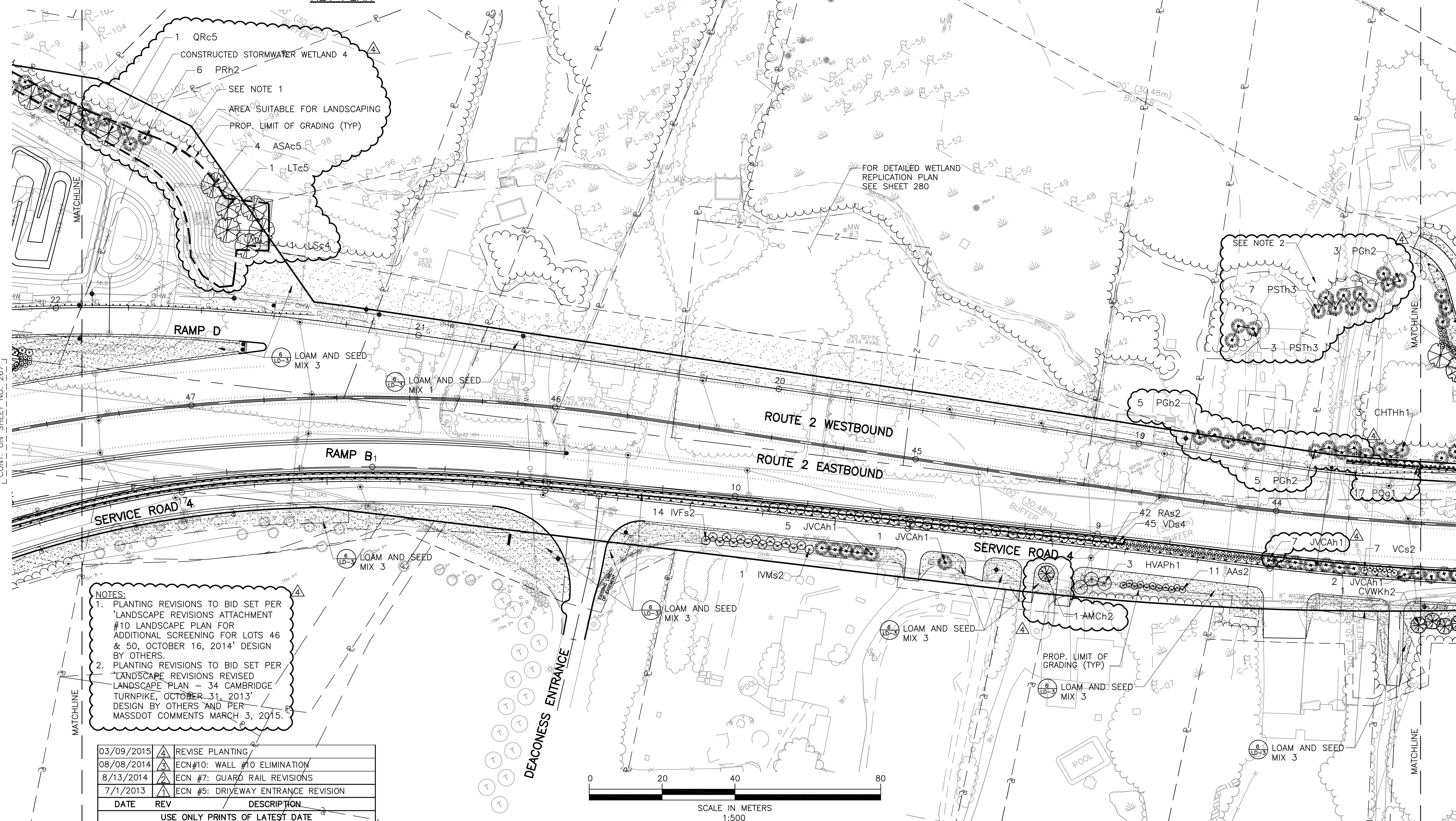
$\frac{2}{LD-3}$ PROPOSED EVERGREEN TREE

$\frac{1}{3}$
 $\frac{1}{LD-3}$ PROPOSED ORNAMENTAL TREE

$\frac{5}{LD-3}$ PROPOSED SHRUB PLANTING

Diagram illustrating four different vine planting methods:

- PROPOSED VINE PLANTING** (Method 4): A row of dots representing a single line of planting.
- LOAM AND SEED MIX 1** (Method 6): A rectangular area with scattered dots representing a mix of loam and seed.
- LOAM AND SEED SWALES WITH MIX 2** (Method 6): A rectangular area with two parallel lines and scattered dots, representing swales with a mix of loam and seed.
- LOAM AND SEED MIX 3** (Method 6): A rectangular area with scattered dots representing a mix of loam and seed.



NOTES:

1. PLANTING REVISIONS TO BID SET PER
'LANDSCAPE REVISIONS ATTACHMENT
#10 LANDSCAPE PLAN FOR
ADDITIONAL SCREENING FOR LOTS 46
& 50, OCTOBER 16, 2014' DESIGN
BY OTHERS.
2. PLANTING REVISIONS TO BID SET PER
'LANDSCAPE REVISIONS REVISED
LANDSCAPE PLAN - 34 CAMBRIDGE
TURNPIKE, OCTOBER 31, 2013'
DESIGN BY OTHERS AND PER
MASSDOT COMMENTS MARCH 3, 2015

03/09/2015	4	REVISE PLANTING
08/08/2014	3	ECN #10: WALL #10 ELIMINATION
8/13/2014	4	ECN #7: GUARD RAIL REVISIONS
7/1/2013	1	ECN #5: DRIVEWAY ENTRANCE REVISION
DATE	REV	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE		

LINCOLN — CONCORD

ROUTE 2

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	MS-0029(311)	269	445
PROJECT FILE NO. 602984			

LANDSCAPE PLAN SHEET 6 OF 11

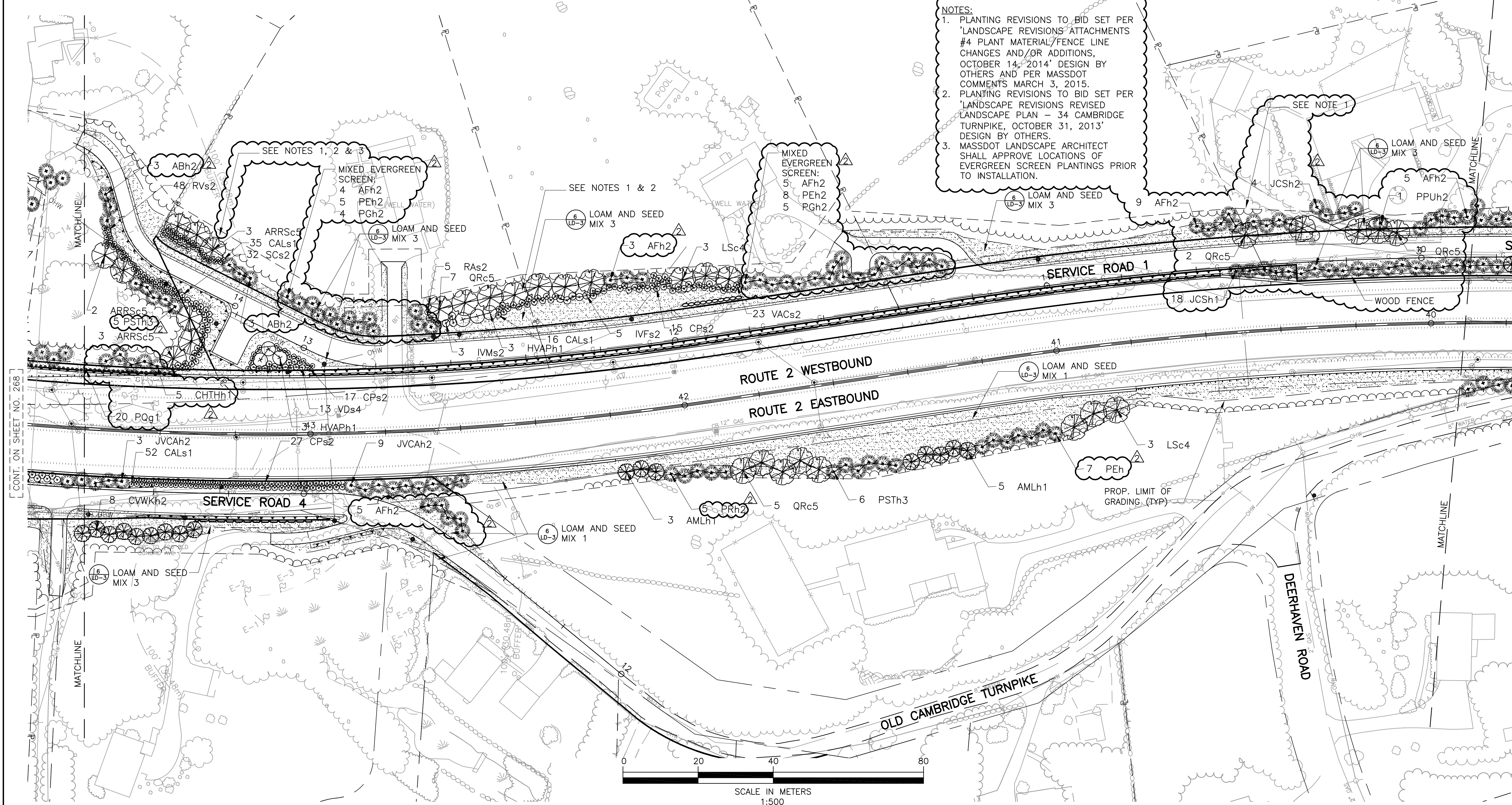
LEGEND

	$\frac{1}{2}$ LD-3	PROPOSED DECIDUOUS TREE		$\frac{4}{6}$ LD-3	PROPOSED VINE PLANTING
	$\frac{2}{6}$ LD-3	PROPOSED EVERGREEN TREE		$\frac{6}{6}$ LD-3	LOAM AND SEED MIX 1
	$\frac{1}{2}$ LD-3	PROPOSED ORNAMENTAL TREE		$\frac{6}{6}$ LD-3	LOAM AND SEED SWALES WITH MIX 2
	$\frac{5}{6}$ LD-3	PROPOSED SHRUB PLANTING		$\frac{6}{6}$ LD-3	LOAM AND SEED MIX 3

DATE	REV	DESCRIPTION
03/09/2015	1	REVISE PLANTING
8/13/2014	1	ECN #7: GUARD RAIL REVISIONS
USE ONLY PRINTS OF LATEST DATE		

KEY PLAN

- NOTES:
1. PLANTING REVISIONS TO BID SET PER 'LANDSCAPE REVISIONS' ATTACHMENTS #4 PLANT MATERIAL/FENCE LINE CHANGES AND/OR ADDITIONS, OCTOBER 14, 2014' DESIGN BY OTHERS AND PER MASSDOT COMMENTS MARCH 3, 2015.
 2. PLANTING REVISIONS TO BID SET PER 'LANDSCAPE REVISIONS REVISED LANDSCAPE PLAN - 34 CAMBRIDGE TURNPIKE, OCTOBER 31, 2013' DESIGN BY OTHERS.
 3. MASSDOT LANDSCAPE ARCHITECT SHALL APPROVE LOCATIONS OF EVERGREEN SCREEN PLANTINGS PRIOR TO INSTALLATION.



CONT. ON SHEET NO. 270

LINCOLN — CONCORD

ROUTE 2

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	MS-0025(311)	270	445
	STP-0025(311)		
PROJECT FILE NO. 602984			

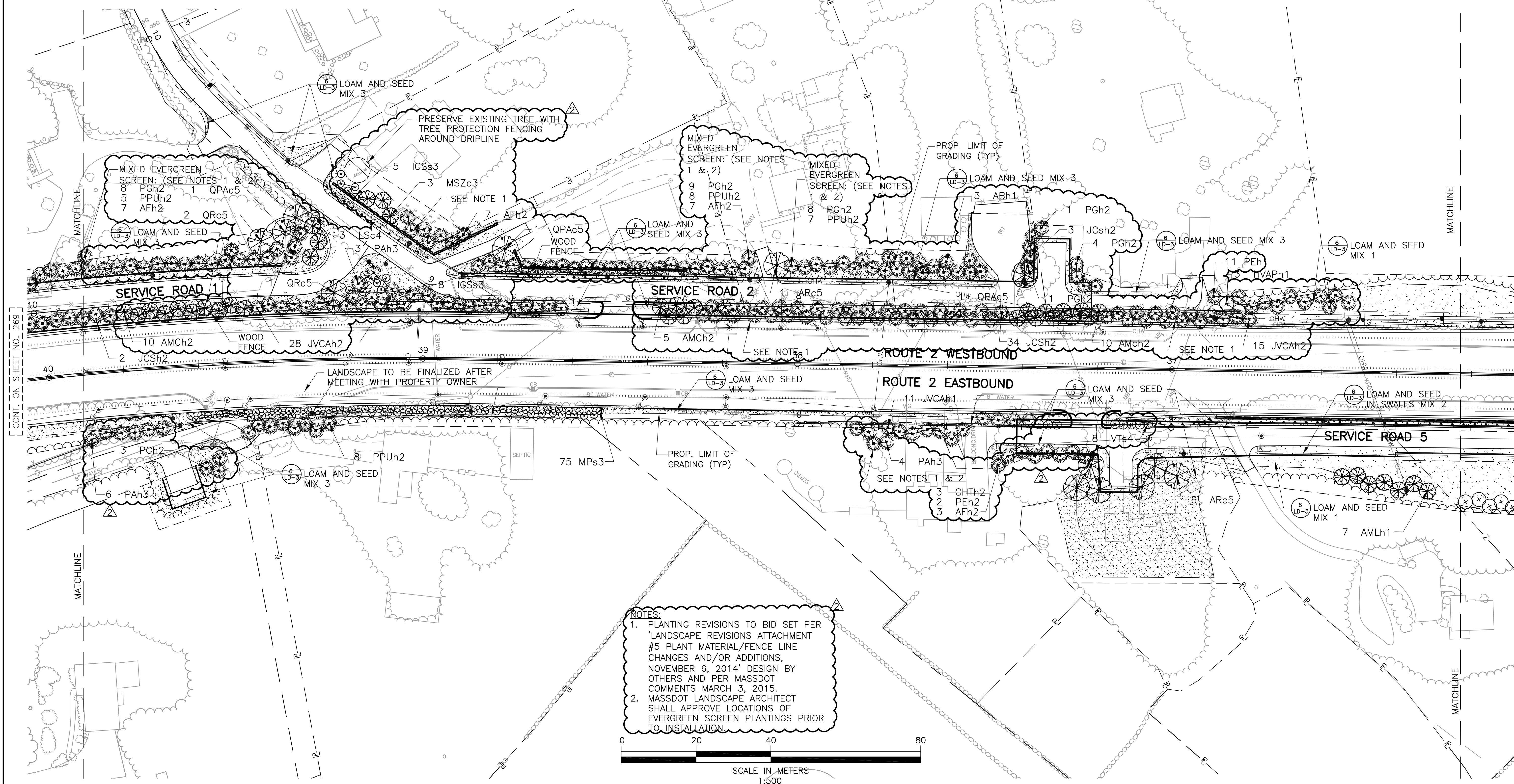
LANDSCAPE PLAN SHEET 7 OF 11

03/09/2015		REVISE PLANTING
07/21/14		AUTOMATION OF EMERGENCY ACCESS GATE
DATE	REV	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE		

LEGEND

		PROPOSED DECIDUOUS TREE		PROPOSED VINE PLANTING
		PROPOSED EVERGREEN TREE		LOAM AND SEED MIX 1
		PROPOSED ORNAMENTAL TREE		LOAM AND SEED SWALES WITH MIX 2
		PROPOSED SHRUB PLANTING		LOAM AND SEED MIX 3

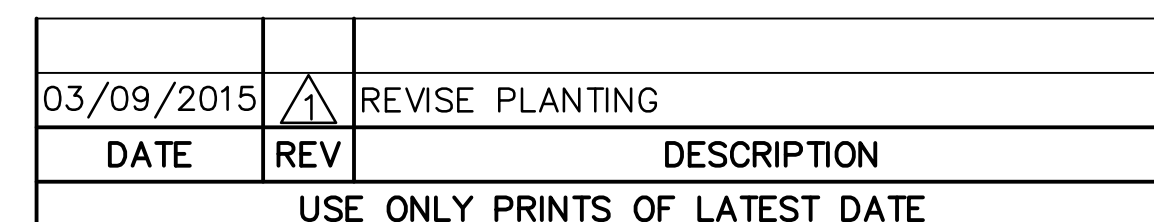
KEY PLAN



ROUTE 2

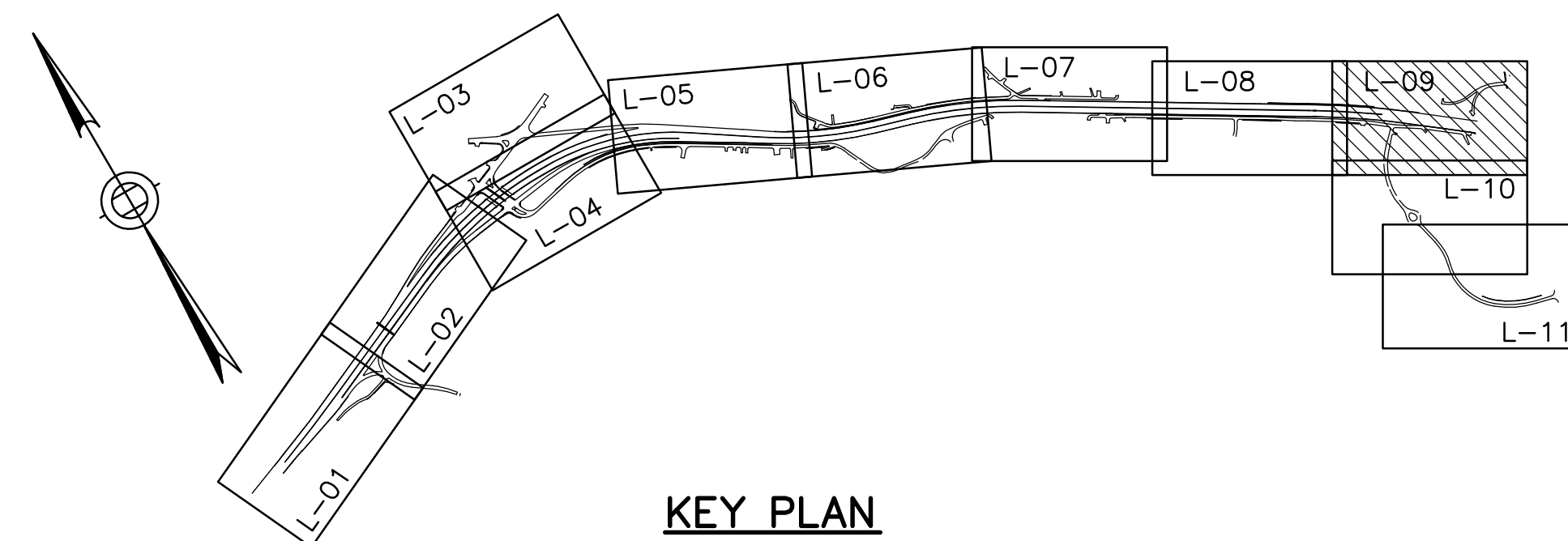
LANDSCAPE PLAN
SHEET 8 OF 11

LANDSCAPE PLAN
SHEET 8 OF 11



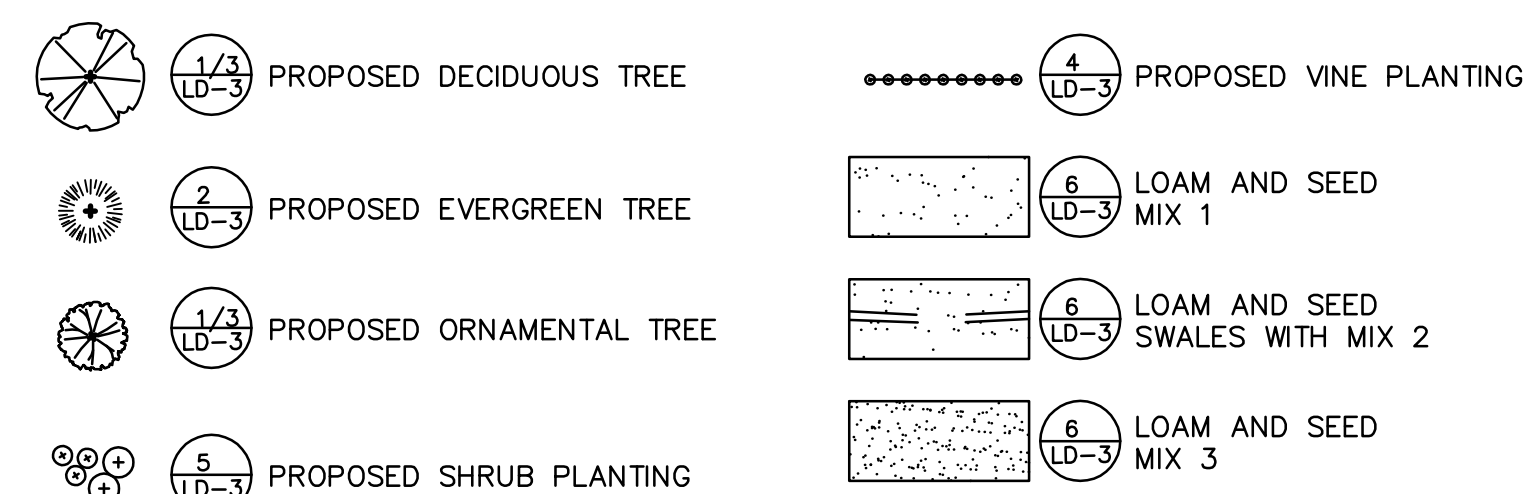
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEET
MASS.	HSI-002S(311) CM-002S(311) STP-002S(311)	272	445
PROJECT FILE NO. 602984			

LANDSCAPE PLAN
SHEET 9 OF 11



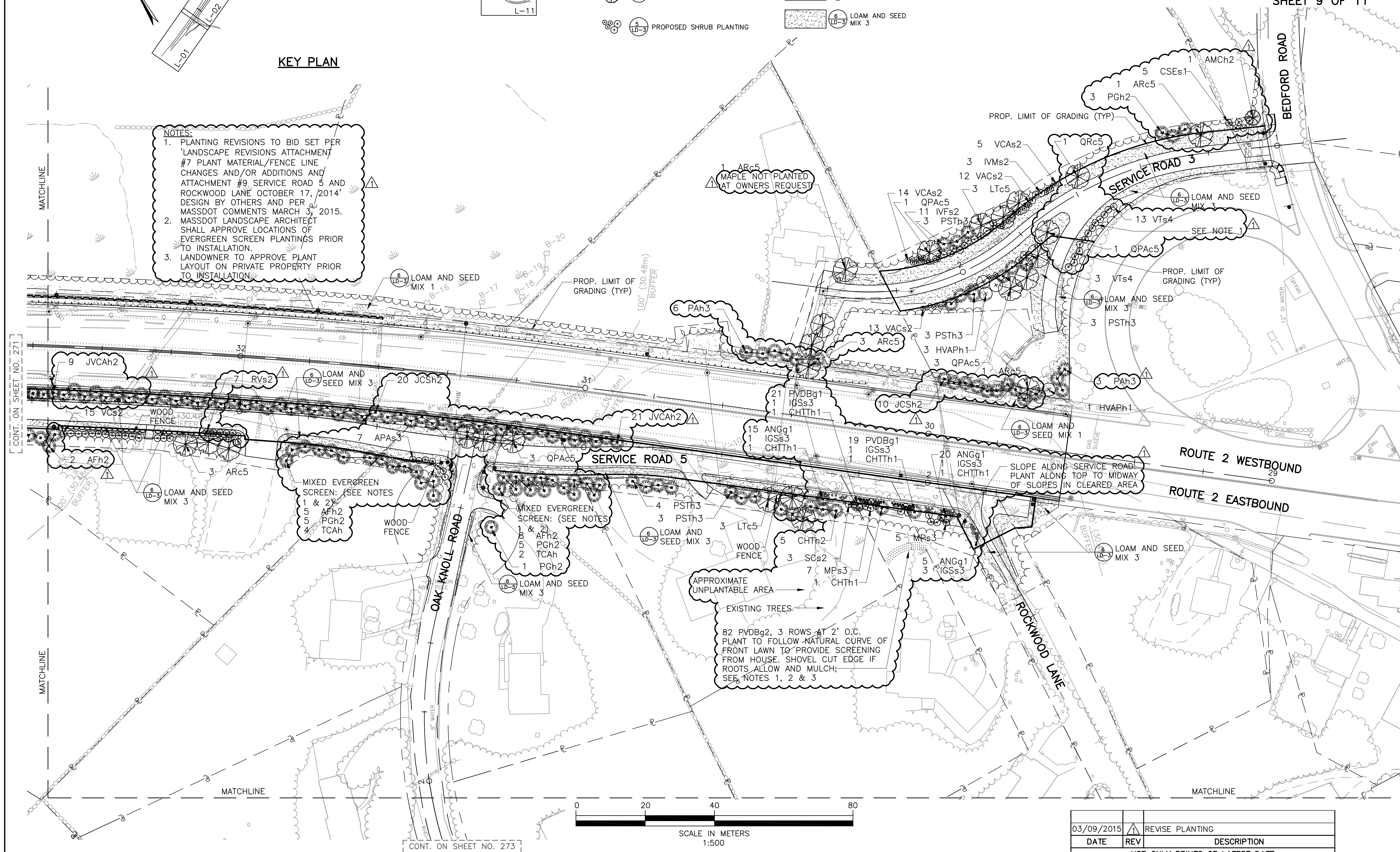
KEY PLAN

~~LEGEND~~



NOTES:

1. PLANTING REVISIONS TO BID SET PER 'LANDSCAPE REVISIONS ATTACHMENT #7 PLANT MATERIAL/FENCE LINE CHANGES AND/OR ADDITIONS AND ATTACHMENT #9, SERVICE ROAD 5 AND ROCKWOOD LANE OCTOBER 17, 2014' DESIGN BY OTHERS AND PER MASSDOT COMMENTS MARCH 3, 2015.
2. MASSDOT LANDSCAPE ARCHITECT SHALL APPROVE LOCATIONS OF EVERGREEN SCREEN PLANTINGS PRIOR TO INSTALLATION.
3. LANDOWNER TO APPROVE PLANT LAYOUT ON PRIVATE PROPERTY PRIOR TO INSTALLATION.



03/09/2015	1	REVISE PLANTING
DATE	REV	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE		

LINCOLN — CONCORD

ROUTE 2

STATE	FED. AID	PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	93-0023(311)	STP-0023(311)	273	445
PROJECT FILE NO. 602984				

LANDSCAPE PLAN SHEET 10 OF 11

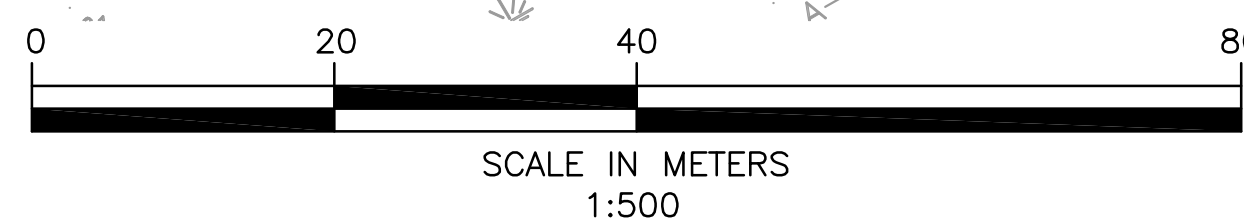
LEGEND

	$\frac{1}{2}$ LD-3	PROPOSED DECIDUOUS TREE		$\frac{4}{10}$ LD-3	PROPOSED VINE PLANTING
	$\frac{2}{10}$ LD-3	PROPOSED EVERGREEN TREE		$\frac{6}{10}$ LD-3	LOAM AND SEED MIX 1
	$\frac{1}{2}$ LD-3	PROPOSED ORNAMENTAL TREE		$\frac{6}{10}$ LD-3	LOAM AND SEED SWALES WITH MIX 2
	$\frac{5}{10}$ LD-3	PROPOSED SHRUB PLANTING		$\frac{6}{10}$ LD-3	LOAM AND SEED MIX 3

KEY PLAN

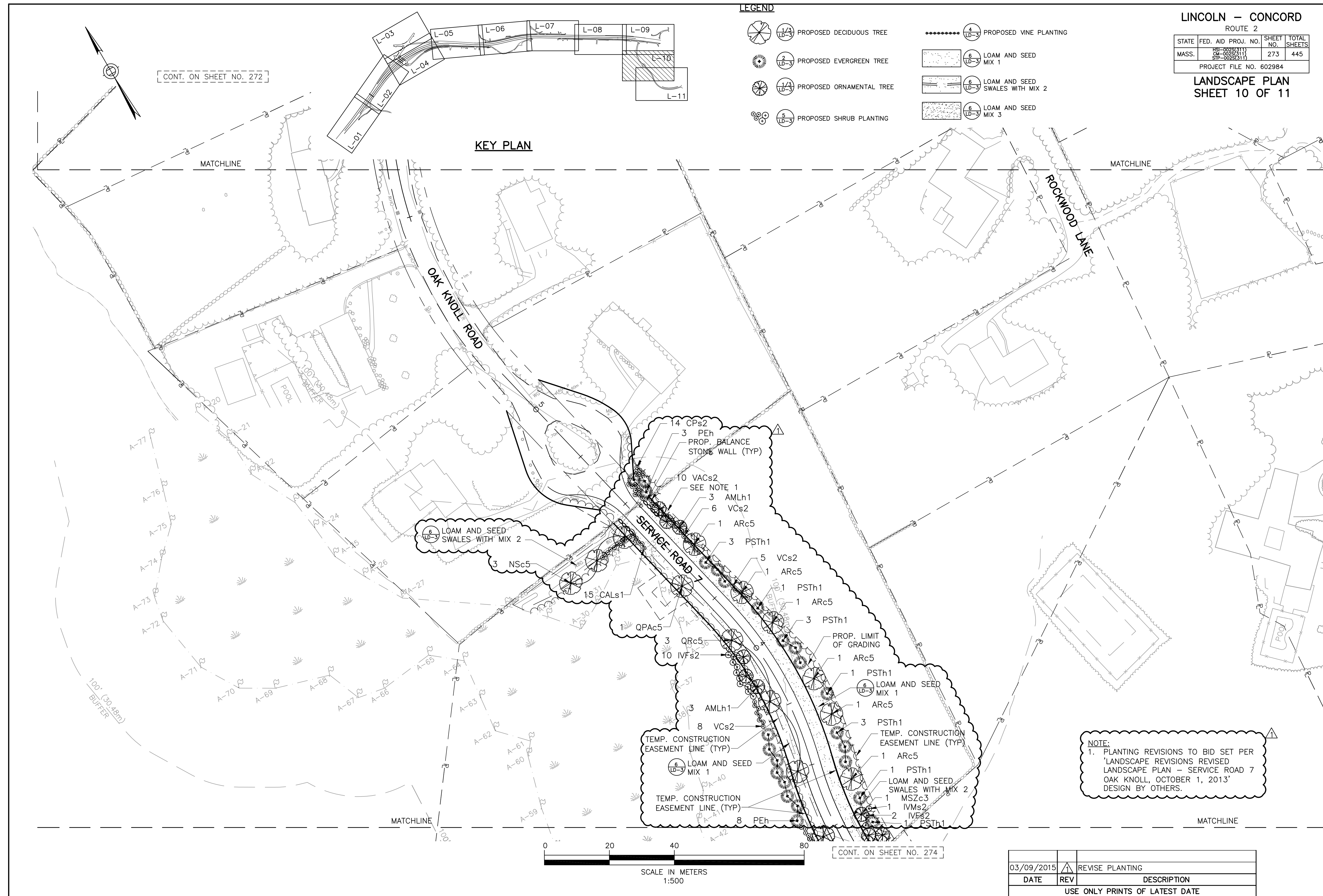
NOTE:
1. PLANTING REVISIONS TO BID SET PER 'LANDSCAPE REVISIONS REVISED LANDSCAPE PLAN - SERVICE ROAD 7 OAK KNOLL, OCTOBER 1, 2013' DESIGN BY OTHERS.

03/09/2015	△	REVISE PLANTING
DATE	REV	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE		



CONT. ON SHEET NO. 274

CONT. ON SHEET NO. 272



CONT. ON SHEET NO. 273

LEGEND

- PROPOSED DECIDUOUS TREE
- PROPOSED EVERGREEN TREE
- PROPOSED ORNAMENTAL TREE
- PROPOSED SHRUB PLANTING
- PROPOSED VINE PLANTING
- LOAM AND SEED MIX 1
- LOAM AND SEED SWALES WITH MIX 2
- LOAM AND SEED MIX 3

LINCOLN - CONCORD

ROUTE 2

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	MS-0023(311) STP-0023(311)	274	445
PROJECT FILE NO. 602984			

LANDSCAPE PLAN
SHEET 11 OF 11

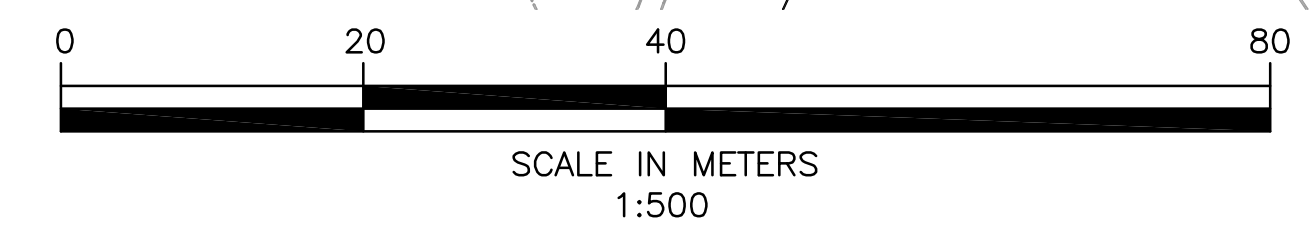
KEY PLAN

MATCHLINE

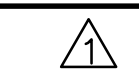
BEDFORD ROAD

SERVICE ROAD 7

NOTE:
1. PLANTING REVISIONS TO BID SET PER
'REVISED LANDSCAPE PLAN -
SERVICE ROAD 7 OAK KNOLL,
OCTOBER 1, 2013' DESIGN BY
OTHERS AND PER MASSDOT
COMMENTS MARCH 3, 2015.



03/09/2015	△	REVISE PLANTING
DATE	REV	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE		



1 SUMMARY PLANT LIST – EVERGREEN TREES

SCALE: NO SCALE

NOTE:

1. THESE PLANT LISTS WERE UPDATED ON 03/09/2015.
AND PER MASSDOT COMMENTS MARCH 3, 2015.

SHEET TOTALS											QUANTITY TOTALS	SYMBOL	SPECIES (F) DENOTES FALL HAZARD PLANTING SPECIES	MASSDOT SIZE (SEE NOTE 1)	ROOT CONDITION (SEE NOTE 2)	NOTES
L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11						
EVERGREEN TREES																
–	–	–	38	–	9	3	6	–	–	3	59	ABh1	FIR – BALSAM ABIES BALSAMEA	1.22–1.52 METERS	B&B	FULL TO BASE
–	–	–	–	–	6	–	–	–	–	8	14	ABh2	FIR – BALSAM ABIES BALSAMEA	1.83–2.44 METERS	B&B	FULL TO BASE
–	3	–	–	–	32	24	12	15	–	–	86	AFh2	FIR –FRASER ABIES FRASERI	2.13–2.44 METERS	B&B	FULL TO BASE
–	5	–	–	3	5	–	–	5	–	–	18	CHThh1	CEDAR – ATLANTIC WHITE CHAMAECYPARIS THYOIDES	1.52–1.73 METERS	B&B	FULL TO BASE
–	–	–	–	–	–	3	–	5	–	–	8	CHThh2	CEDAR – ATLANTIC WHITE CHAMAECYPARIS THYOIDES	1.73–2.13 METERS	B&B	FULL TO BASE
–	–	–	–	–	18	2	–	20	–	–	40	JCSh1	JUNIPER – CHINESE – SPARTAN JUNIPERUS CHINENSIS 'SPARTAN'	1.52–1.73 METERS	B&B	FULL TO BASE
–	–	–	–	–	4	39	–	30	–	–	73	JCSh2	JUNIPER – CHINESE – SPARTAN JUNIPERUS CHINENSIS 'SPARTAN'	1.73–2.13 METERS	B&B	FULL TO BASE
–	–	–	–	15	12	11		9		3	50	JVCAh1	JUNIPER – EASTERN RED – CANAERTII JUNIPERUS VIRGINIANA 'CANAERTII'	1.52–1.73 METERS	B&B	FULL TO BASE
–	–	–	–	–	12	58	5	30	–	3	108	JVCAh2	JUNIPER – EASTERN RED – CANAERTII JUNIPERUS VIRGINIANA 'CANAERTII'	1.83–2.44 METERS	B&B	FULL TO BASE
4	7	–	–	–	–	13	8	9	–	–	41	PAh3	SPRUCE – NORWAY PICEA ABIES	2.44–3.05 METERS	B&B	FULL TO BASE
21	8	–	–	–	7	11	12	3	11	16	89	PEh	PINE – RED PINUS RESINOSA	1.52–1.73 METERS	B&B	FULL TO BASE
–	–	–	–	–	8	2	8	–	–	–	18	PEh2	PINE – RED PINUS RESINOSA	1.83–2.44 METERS	B&B	FULL TO BASE
–	–	–	–	13	5	34	13	14	–	–	79	PGh2	SPRUCE – WHITE PICEA GLAUCA	2.13–2.44 METERS	B&B	FULL TO BASE
4	–	–	–	–	1	28	5	–	–	–	38	PPUh2	SPRUCE – COLORADO GREEN PICEA PUNGENS	2.13–2.44 METERS	B&B	FULL TO BASE
–	4	10	3	6	5	–	15	–	–	–	43	PRh2	PINE – PITCH PINUS RIGIDA	1.83–2.44 METERS	B&B	FULL TO BASE
2	–	–	–	–	–	–	–	–	–	–	2	PSMh2	FIR – DOUGLAS PSEUDOTSUGA MENZEII	1.83–2.44 METERS	B&B	FULL TO BASE
14	14	–	51	–	–	–	3	3	13	5	103	PSTh1	PINE – WHITE PINUS STROBUS	1.52–1.73 METERS	B&B	FULL TO BASE
–	10	–	–	10	11	11	3	16	–	–	61	PSTh3	PINE – WHITE PINUS STROBUS	2.44–3.05 METERS	B&B	FULL TO BASE
1	–	–	–	–	–	–	–	–	–	–	1	THh2	ARBORVITAE THUJA PLICATA	1.73–2.13 METERS	B&B	FULL TO BASE
3	–	–	–	–	–	–	6	6	–	–	15	TCAh	HEMLOCK TSUGA CANADENSIS	1.52–1.83 METERS	B&B	FULL TO BASE

2 SUMMARY PLANT LIST – DECIDUOUS TREES

SCALE: NO SCALE

SHEET TOTALS											QUANTITY TOTALS	SYMBOL	SPECIES (F) DENOTES FALL HAZARD PLANTING SPECIES	MASSDOT SIZE (SEE NOTE 1)	ROOT CONDITION (SEE NOTE 2)	NOTES
L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11						
DECIDUOUS TREES																
6	8	–	3	1	–	25	13	1	–	–	57	AMCh2	SHAD TREE – DOWNY AMELANCHIER CANADENSIS (F)	1.83–2.44 METERS	B&B	MULTI–STEM
7	–	–	–	–	8	7	11	–	6	9	53	AMLh1	SHADE TREE – ALLEGHENY CLUMP AMELANCHIER LAEVIS (F)	1.22–1.52 METERS	B&B	SINGLE OR MULTISTEM
7	12	–	22	–	–	7	–	9	6	6	69	ARc5	MAPLE – RED ACER RUBRUM (F)	50–60 MILLIMETER CALIPER	B&B	MULTISTEM
–	–	–	7	–	8	–	–	–	–	–	15	ARRSc5	MAPLE – RED – 'RED SUNSET' ACER RUBRUM 'RED SUNSET' (F)	50–60 MILLIMETER CALIPER	B&B	
3	–	–	–	4	–	–	2	–	–	–	9	ASAc5	MAPLE – SUGAR ACER SACCHARUM	50–60 MILLIMETER CALIPER	B&B	
–	–	–	–	1	8	–	12	–	–	3	24	CVWKh2	HAWTHORN – 'WINTER KING' CRATAEGUS VIRIDIS 'WINTER KING' (F)	1.73–2.44 METERS	B&B	
–	–	1	–	1	6	3	–	–	–	–	11	LSc4	SWEETGUM LIQUIDAMBAR STYRACIFLUA (F)	40–50 MILLIMETER CALIPER	B&B	STRAIGHT LEADER
–	–	–	1	1	–	3	–	6	–	6	17	LTc5	TULIP – TREE LIRIODENDRON TULIPFERA (F)	50–60 MILLIMETER CALIPER	B&B	
–	–	7	35	–	–	3	–	–	1	7	48	MSZc3	CRABAPPLE – 'ZUMI' MALUS SEIBOLDII VAR. 'ZUMI' (F)	40–50 MILLIMETER CALIPER	B&B	
–	11	–	–	–	–	–	5	–	3	–	19	NSc5	TUPELO NYSSA SYLVATICA (F)	50–60 MILLIMETER CALIPER	B&B	
–	–	–	–	–	–	–	–	–	–	3	3	PVc5	CHERRY – CHOKECHERRY PRUNUS VIRGINIANA	40–50 MILLIMETER CALIPER	B&B	
–	18	–	26	–	–	3	3	8	1	3	62	QPAc5	OAK – PIN QUERCUS PALUSTRIS (F)	50–60 MILLIMETER CALIPER	B&B	STRAIGHT LEADER
1	8	2	25	1	17	3	–	–	3	2	62	QRc5	OAK – NORTHERN RED QUERCUS RUBRA (F)	50–60 MILLIMETER CALIPER	B&B	STRAIGHT LEADER

LINCOLN – CONCORD

ROUTE 2

STATE	FED. AID	PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.		MS-0028(311) SF-0028(311)	275	445
PROJECT FILE NO. 602984				

LD–1
LANDSCAPE DETAILS
SHEET 1 OF 3

NOTES:

1. TABLE OF MHD METRIC PLANT SIZES WITH APPROXIMATE ENGLISH EQUIVALENTS.

MASSDOT METRIC SIZE	ENGLISH SIZE	MEASUREMENTS OF
25–38 MILLIMETERS	1"–1 1/2"	CALIPER
40–50 MILLIMETERS	1 1/2"–2"	
50–60 MILLIMETERS	2"–2 1/2"	
60–80 MILLIMETERS	2 1/2"–3"	
80–90 MILLIMETERS	3"–3 1/2"	
400–460 MILLIMETERS	1'–4"– 1 1/2'	HEIGHT OR SPREAD
460–610 MILLIMETERS	1 1/2'–2'	
610–760 MILLIMETERS	2'–2 1/2'	
610–900 MILLIMETERS	2'–3'	
900 MILLIMETERS–1.22 METERS	3'–4'	HEIGHT
1.22–1.52 METERS	4'–5'	
1.52–1.83 METERS	5'–6'	
1.73–2.13 METERS	6'–7'	
1.83–2.44 METERS	6'–8'	
2.13–2.44 METERS	7'–8'	
2.44–3.05 METERS	8'–10'	
3.05–3.66 METERS	10'–12'	
3.66–4.27 METERS	12'–14'	
NO. 2	NO. 2 (PER AAN)	CONTAINER SIZE

2. BALLED & BURLAPPED (B&B) PLANTS MAY ALSO BE PROCURED AS CONTAINER GROWN PLANTS IF THEY CONFORM TO THE REQUIREMENTS OF THE AMERICAN ASSOCIATION OF NURSERYMEN (AAN). NO ADDITIONAL COMPENSATION WILL BE PAID FOR CONTAINER GROWN PLANTS.

03/09/2015	ADD TREES/REVISE QUANTITIES
DATE	REV DESCRIPTION
USE ONLY PRINTS OF LATEST DATE	

NOTE:

1. THESE PLANT LISTS WERE UPDATED ON 03/09/2015.
AND PER MASSDOT COMMENTS MARCH 3, 2015.

LINCOLN – CONCORD

ROUTE 2

STATE	FED. AID	PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	95-0029(311)	02-0029(311)	276	445
PROJECT FILE NO. 602984				

LD-2

LANDSCAPE DETAILS
SHEET 2 OF 3

1

SUMMARY PLANT LIST – SHRUBS AND GRASSES

SCALE: NO SCALE

SHEET TOTALS											QUANTITY TOTALS	SYMBOL	SPECIES	MASSDOT SIZE (SEE NOTE 1)	ROOT CONDITION (SEE NOTE 2)	NOTES
L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11						
													SHRUBS/VINES/ORNAMENTAL GRASS			
-	-	-	-	11	-	-	-	-	-	-	11	AAs2	CHOKEBERRY – RED ARONIA ARBUTIFOLIA	610-760 MILLIMETER HEIGHT	CONT.	FULL TO BASE
-	-	-	-	-	-	-	7	-	-	-	7	APAs3	BUCKEYE AESCULUS PARVIFLORA	610-900 MILLIMETER HEIGHT	CONT.	-
-	-	-	-	-	-	-	-	40	-	-	40	ANGg1	GRASS – BIG BLUE STEM ANDROPOGAN GERARDII	610-900 MILLIMETER HEIGHT	CONT.	-
55	136	-	65	-	103	47	14	-	15	-	435	CALs1	SUMMERSWEET CLETHRA ALNIFOLIA	460-610 MILLIMETER HEIGHT	CONT.	FULL TO BASE
-	-	-	8	-	59	47	41	-	14	18	187	CPs2	SWEETFERN COMPTONIA PEREGRINA	610-760 MILLIMETER HEIGHT	CONT.	FULL TO BASE
-	-	22	580	-	-	-	84	5	-	42	738	CSEs1	DOGWOOD – REDOSIER CORNUS SERICEA	460-610 MILLIMETER HEIGHT	CONT.	FULL TO BASE
16	14	-	8	3	6	3	16	4	-	-	70	HVAPh1	WITCH HAZEL HAMAMELIS VIRGINIANA	1.53-1.73 METER HEIGHT	CONT.	FULL TO BASE
40	-	-	-	-	-	13	-	7	-	-	60	IGSs3	INKBERRY ILEX GLABRA	610-900 MILLIMETER HEIGHT	CONT.	FULL TO BASE
-	-	-	2	1	3	-	-	3	1	1	11	IVMs2	WINTERBERRY – MALE ILEX VERTICILLATA	610-760 MILLIMETER HEIGHT	CONT.	FULL TO BASE
-	-	-	25	14	5	-	-	11	12	20	87	IVFs2	WINTERBERRY – FEMALE ILEX VERTICILLATA	610-760 MILLIMETER HEIGHT	CONT.	FULL TO BASE
-	103	-	272	-	-	75	-	12	-	-	462	MPs3	BAYBERRY SHRUB – NORTHERN MYRICA PENSYLVANICA	610-900 MILLIMETER HEIGHT	CONT.	FULL TO BASE
-	-	-	-	-	-	-	-	40	-	-	40	PVDBg1	GRASS – SWITCHGRASS PANICUM VIRGINATUM 'DALLAS BLUES'	300-450 MILLIMETER HEIGHT	CONT.	-
-	-	-	-	-	-	-	-	82	-	-	82	PVDBg2	GRASS – SWITCHGRASS PANICUM VIRGINATUM 'DALLAS BLUES'	610-792 MILLIMETER HEIGHT	CONT.	-
-	-	-	-	17	20	-	-	-	-	-	37	PQg1	VIRGINIA CREEPER PARTHENOCISSUS QUINCEFOLIA	1 GALLON	CONT.	-
-	-	-	-	-	-	-	-	-	-	-	-	PTRg1	IVY VINE – BOSTON PARTHENOSISSUS TRICUSPADTA	NO. 1 CONTAINER	CONT.	FULL TO PLANTS
-	18	-	-	42	5	59	28	5	-	-	157	RAAs2	SUMAC – FRAGRANT RHUS AROMATIC	610-760 MILLIMETER HEIGHT	CONT.	FULL TO BASE
-	-	-	-	-	48	-	-	7	-	-	55	RVs2	VIRGINIA ROSE ROSA VIRGINIANA	610-900 MILLIMETER HEIGHT	CONT.	FULL TO BASE
-	-	-	10	-	32	-	10	3	-	13	68	SCs2	ELDERBERRY – COMMON SAMBUCUS CANADENSIS	610-760 MILLIMETER HEIGHT	CONT.	FULL TO BASE
53	-	-	38	7	-	-	44	15	19	60	231	VCs2	BLUEBERRY – HIGHBUSH VACCINIUM CORYMBOSUM	610-760 MILLIMETER HEIGHT	CONT.	FULL TO BASE
-	125	-	254	-	23	-	-	37	10	27	476	VACs2	VIBURNUM – MAPLE-LEAVED VIBURNUM ACERIFOLIUM	610-760 MILLIMETER HEIGHT	CONT.	FULL TO BASE
51	39	-	-	-	-	45	-	5	-	-	140	VCAs2	VIBURNUM – WITHEROD VIBURNUM CASSINOIDES	610-760 MILLIMETER HEIGHT	CONT.	FULL TO BASE
40	-	-	-	45	13	13	-	-	-	-	111	VDs4	VIBURNUM – ARROWWOOD VIBURNUM DENTATUM	900 MM – 1.22 METER HEIGHT	CONT.	FULL TO BASE
-	-	-	88	-	-	8	15	16	-	-	127	VTs4	VIBURNUM – HIGHBUSH CRANBERRY VIBURNUM TRILOBUM	900 MM – 1.22 METER HEIGHT	CONT.	FULL TO BASE

NOTES:

1. TABLE OF MHD METRIC PLANT SIZES WITH APPROXIMATE ENGLISH EQUIVALENTS.

MASSDOT METRIC SIZE	ENGLISH SIZE	MEASUREMENTS OF
25-38 MILLIMETERS	1"-1 1/2"	CALIPER
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50-60 MILLIMETERS	2"-2 1/2"	
60-80 MILLIMETERS	2 1/2"-3"	
80-90 MILLIMETERS	3"-3 1/2"	
400-460 MILLIMETERS	1'-4"- 1 1/2'	HEIGHT OR SPREAD
460-610 MILLIMETERS	1 1/2'-2'	
610-760 MILLIMETERS	2'-2 1/2'	
610-900 MILLIMETERS	2'-3'	
900 MILLIMETERS-1.22 METERS	3'-4'	HEIGHT
1.22-1.52 METERS	4'-5'	
1.52-1.83 METERS	5'-6'	
1.83-2.44 METERS	6'-8'	
2.13-2.44 METERS	7'-8'	
2.44-3.05 METERS	8'-10'	
3.05-3.66 METERS	10'-12'	CONTAINER SIZE
3.66-4.27 METERS	12'-14'	
NO. 2	NO. 2 (PER AAN)	

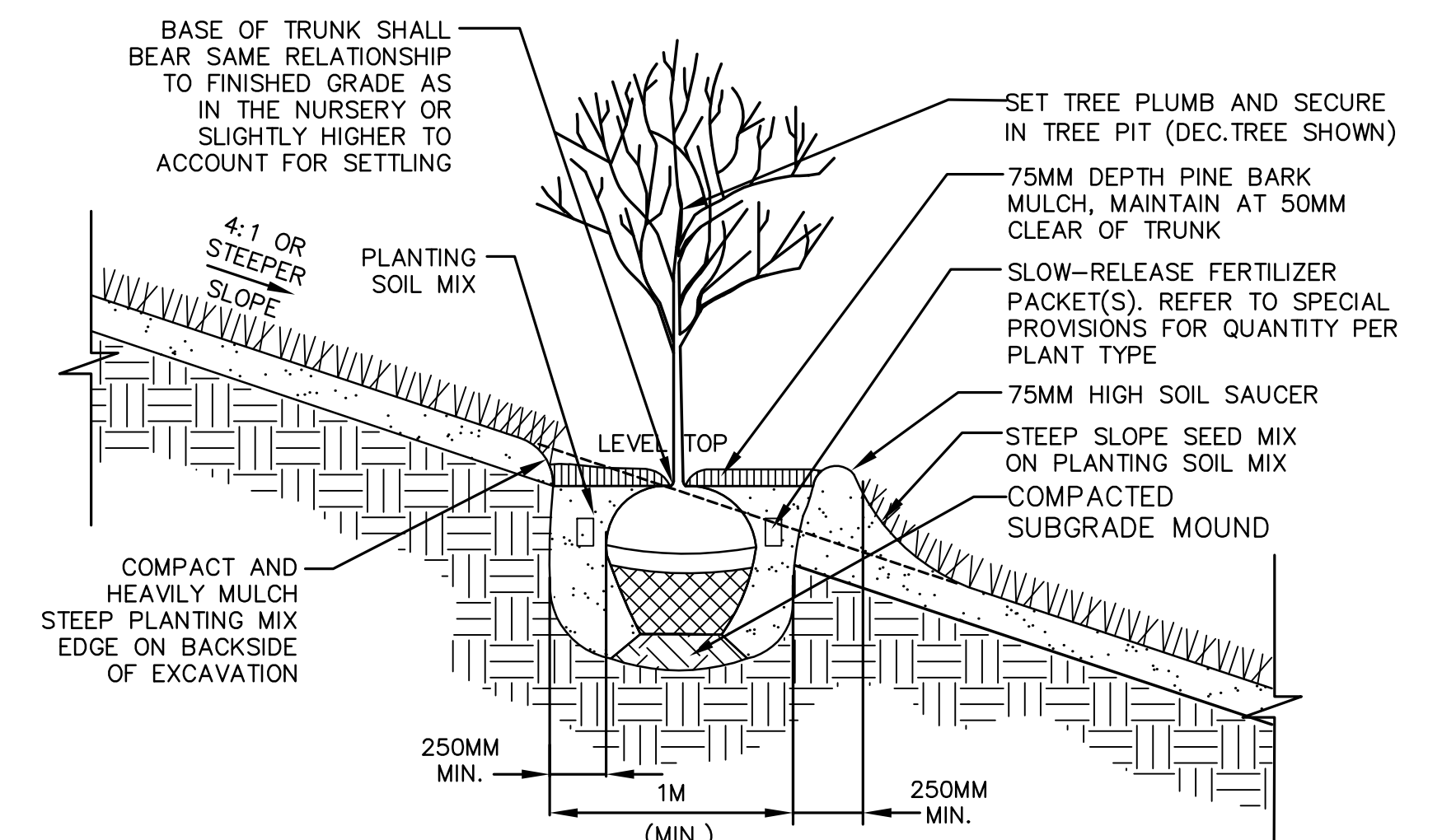
2. BALLED & BURLAPPED (B&B) PLANTS MAY ALSO BE PROCURED AS CONTAINER GROWN PLANTS IF THESE CONFORM TO THE REQUIREMENTS OF THE AMERICAN ASSOCIATION OF NURSERYMEN (AAN). NO ADDITIONAL COMPENSATION WILL BE PAID FOR CONTAINER GROWN PLANTS.

03/09/2015	ADD SHRUBS/REVISE QUANTITIES
DATE	REV DESCRIPTION
USE ONLY PRINTS OF LATEST DATE	

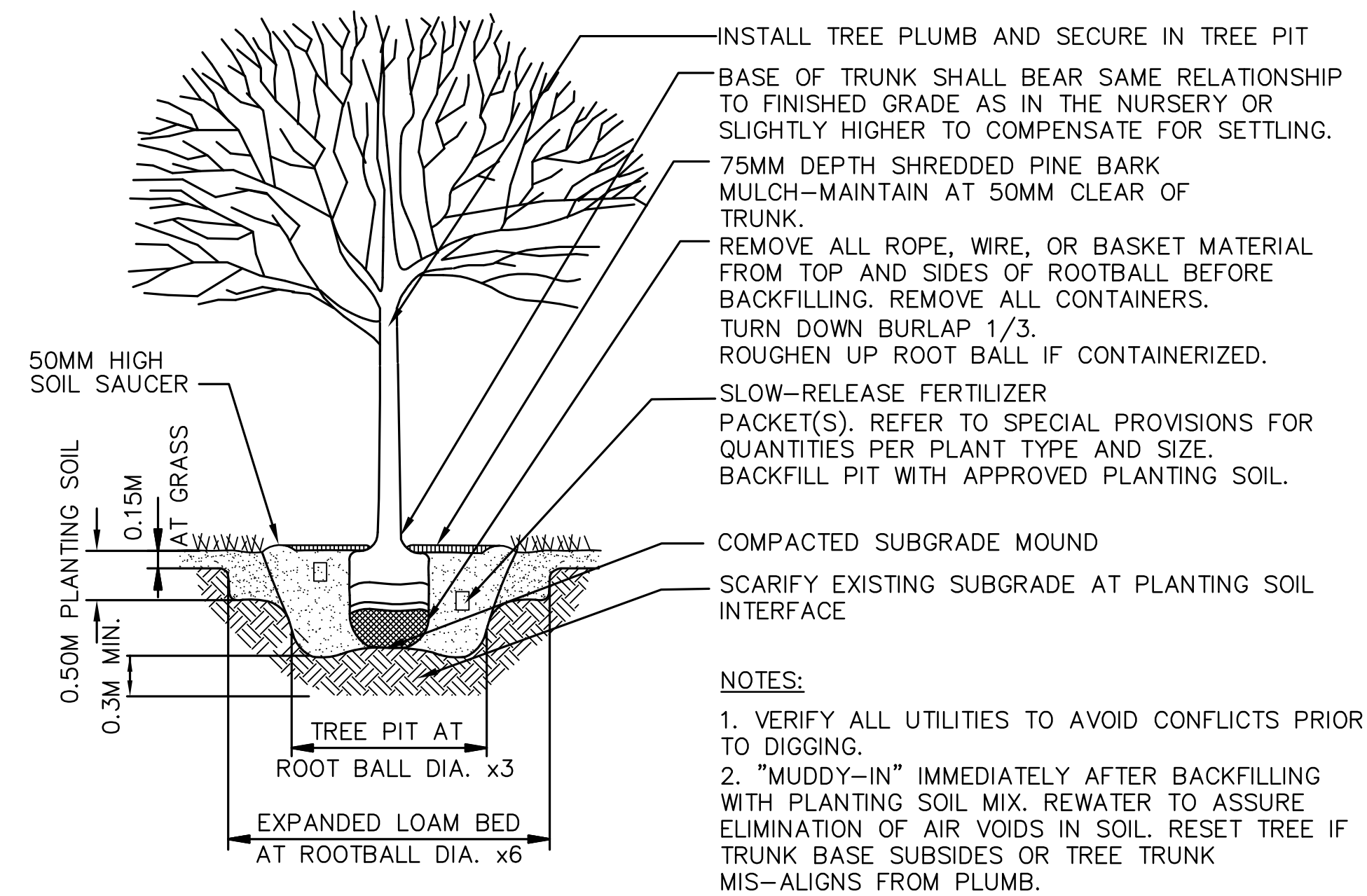
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MASS.	88-0028(311) SF-0028(311)	277	445
PROJECT FILE NO. 602984			

LANDSCAPE DETAILS
SHEET 3 OF 3

- NOTES:
1. VERIFY ALL UTILITIES TO AVOID CONFLICTS PRIOR TO DIGGING.
 2. "MUDDY-IN" IMMEDIATELY AFTER BACKFILLING WITH PLANTING SOIL MIX. REWATER TO ASSURE ELIMINATION OF AIR VOIDS IN SOIL. RESET TREE IF TRUNK BASE SUBSIDES OR TREE TRUNK VARIES FROM PLUMB.
 3. DECIDUOUS TREE SHOWN, EVERGREEN SIMILAR.

TREE PLANTING ON STEEP SLOPE
(DECIDUOUS OR EVERGREEN), TYPICAL

SCALE: 1:50m



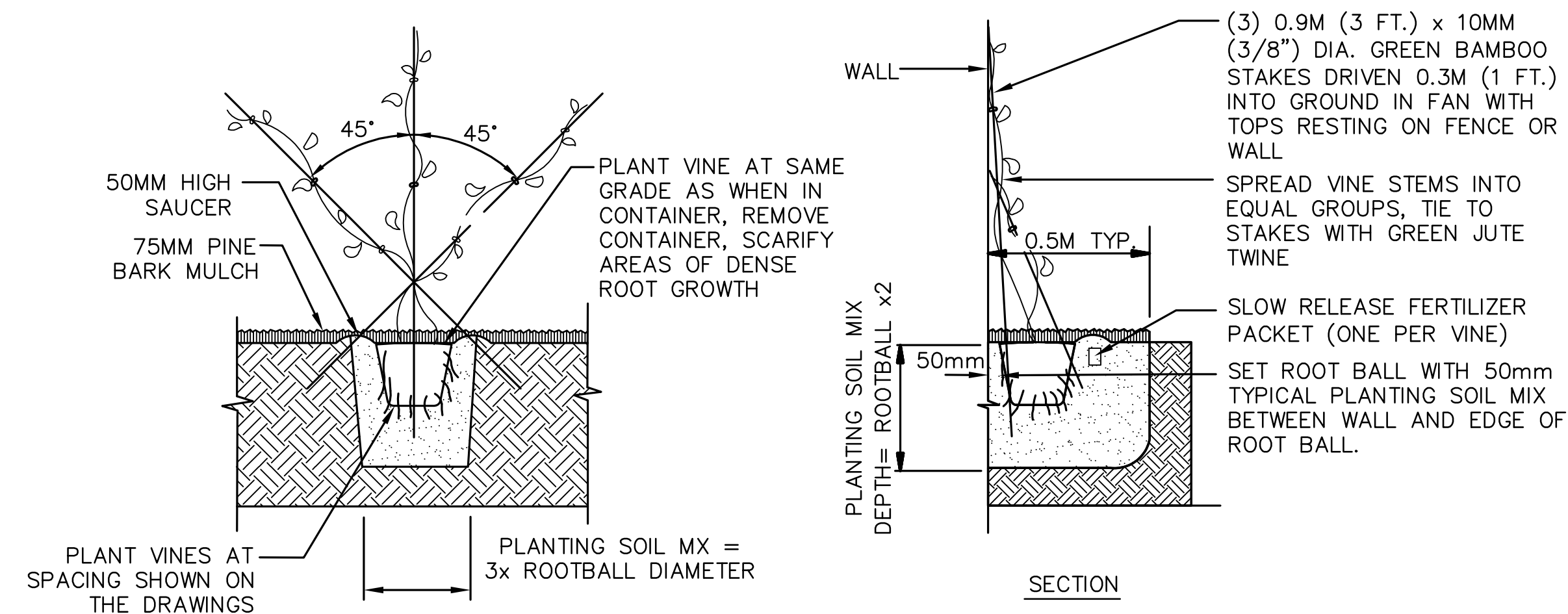
- NOTES:
1. VERIFY ALL UTILITIES TO AVOID CONFLICTS PRIOR TO DIGGING.
 2. "MUDDY-IN" IMMEDIATELY AFTER BACKFILLING WITH PLANTING SOIL MIX. REWATER TO ASSURE ELIMINATION OF AIR VOIDS IN SOIL. RESET TREE IF TRUNK BASE SUBSIDES OR TREE TRUNK MIS-ALIGNS FROM PLUMB.

1 DECIDUOUS TREE PLANTING (TYPICAL)

SCALE: 1:50M

2 EVERGREEN TREE PLANTING (TYPICAL)

SCALE: 1:50m

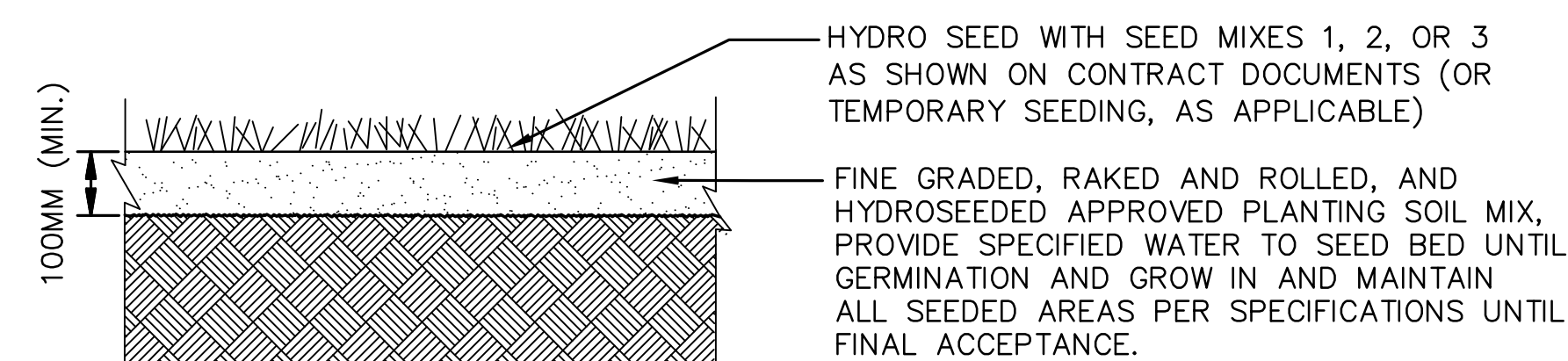


ELEVATION

SECTION

4 VINE PLANTING

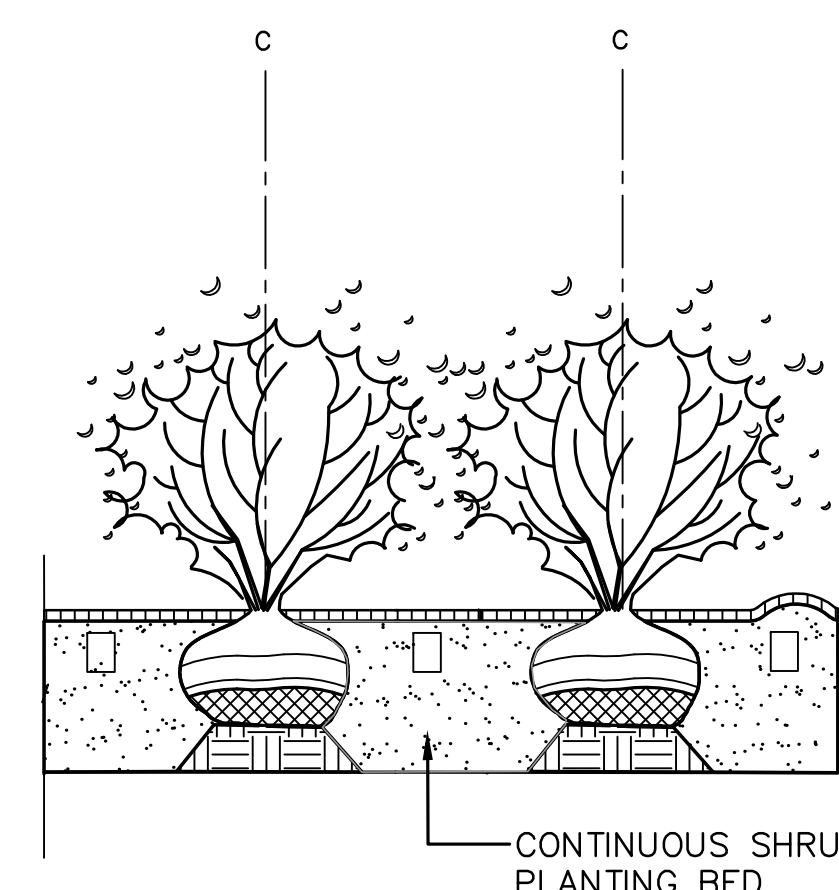
SCALE: NOT TO SCALE



- NOTES:
1. REFER TO THE SPECIFICATIONS AND LANDSCAPING PLANS FOR ADDITIONAL REQUIREMENTS FOR TEMPORARY AND PERMANENT SEEDING AND SEEDING STEEP SLOPE MIX.
 2. SEED MIXES AS SHOWN ON THE PLANS AND DESCRIBED IN THE SUPPLEMENTAL SPECIFICATIONS SHALL BE MIX 1; STEEP SLOPE MIX; MIX 2; SEEDED SWALE MIX; MIX 3; SEEDED LAWNS.
 3. ALL SEEDED AREAS DISTURBED BY CONSTRUCTION SHALL BE RE-SEEDING WITH SAME TYPE INDICATED ON THE PLANS AND SPECIFIED.

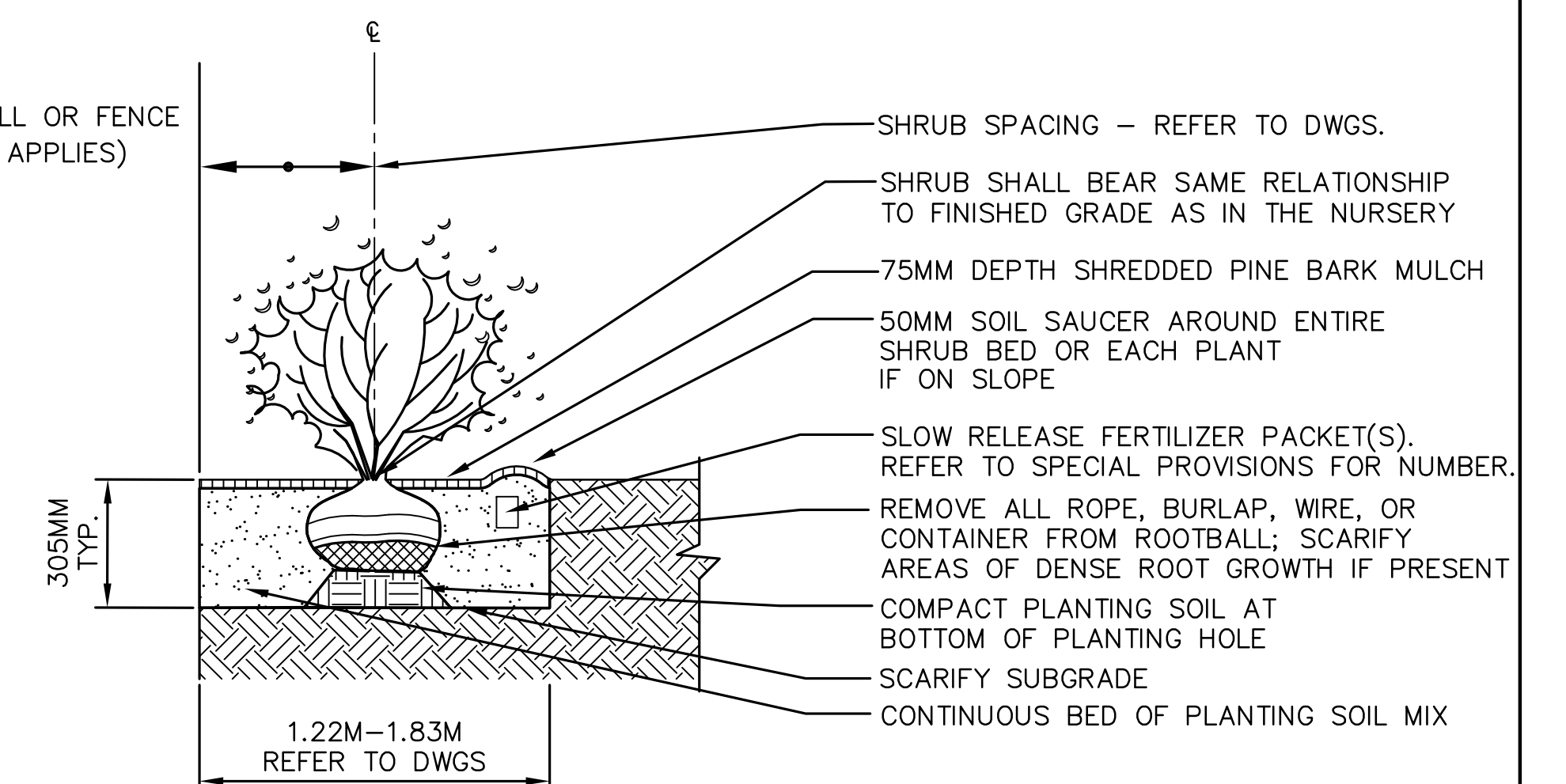
6 TEMPORARY AND PERMANENT SEEDING
AND SEEDING STEEP SLOPE MIX

SCALE: NO SCALE

CONTINUOUS SHRUB
PLANTING BED

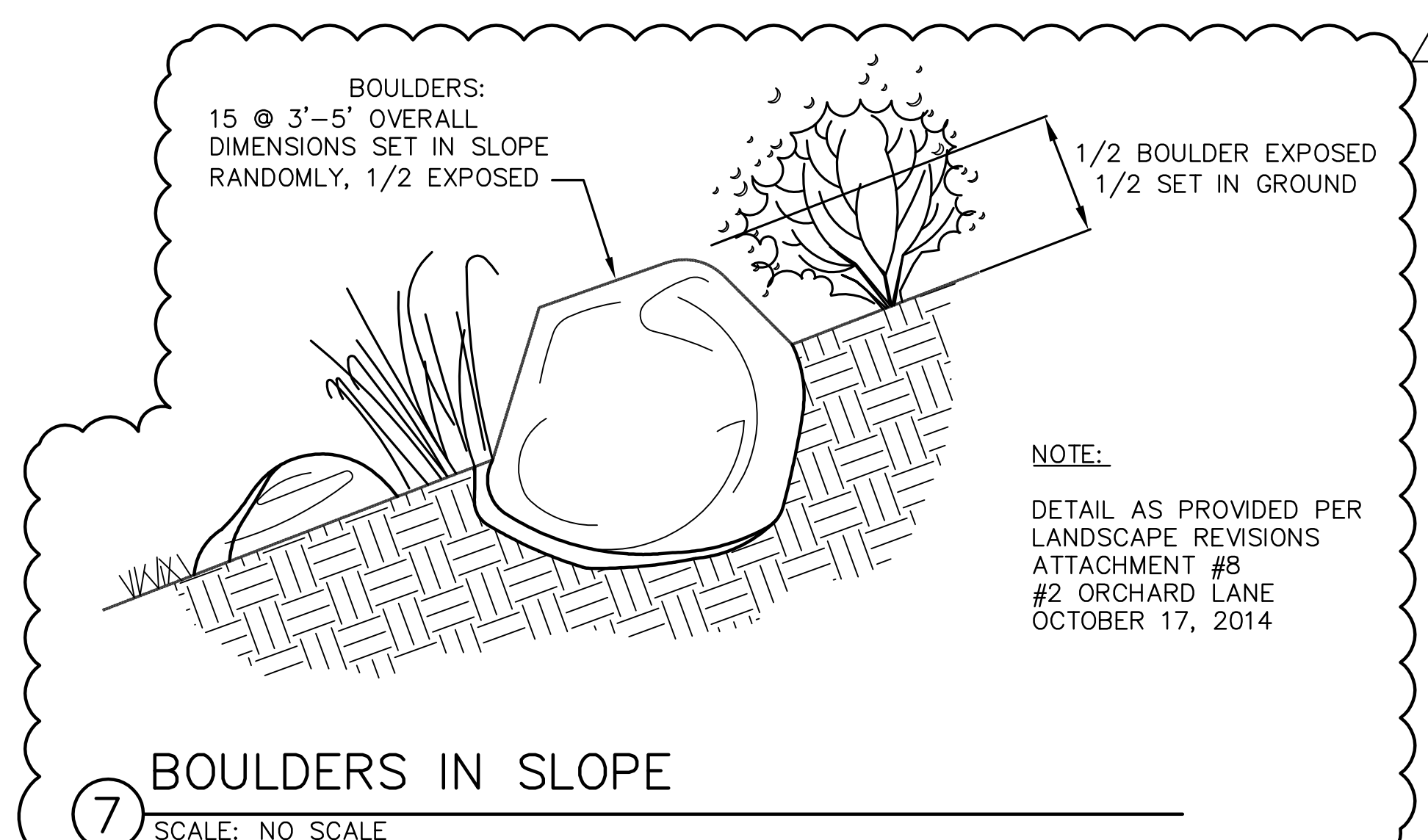
5 SHRUB OR GRASSES PLANTING

SCALE: NO SCALE



NOTES:

1. REFER TO THE DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. SHRUB BEDS SHALL HAVE CONTINUOUS APPROVED PLANTING MIX AND SHREDDED PINE BARK INSTALLED.
3. EDGES OF BEDS SHALL HAVE RAISED SAUCERS THAT SHALL BE MAINTAINED UNTIL FINAL ACCEPTANCE AT END OF PLANT ESTABLISHMENT PERIOD.
4. ALL BEDS AND SHRUBS SHALL BE MAINTAINED AND BEDS WEEDING ON A REGULAR BASIS AND ACCORDING TO THE SPECIFICATIONS.



7 BOULDERS IN SLOPE

SCALE: NO SCALE

DATE	REV	DESCRIPTION
03/09/2015	1	ADD DETAIL 7 FROM MASSDOT
USE ONLY PRINTS OF LATEST DATE		