

PLANT SCHEDULE

SHRUBS	QTY	BOTANICAL NAME / COMMON NAME	CONT	REMARKS
	12	LYONIA LIGUSTRINA / MALEBERRY	#1 CONT	
	6	VACCINIUM CORYMBOSUM/ HI BLUEBERRY	#1 CONT	
	5	VIBURNUM DENTATUM / ARROWWOOD VIB.	#2 CONT	
	25	OSMUNDA CINNAMOMEA / CINN. FERN	PLUG	

VEGETATIVE PLANTS (DISTRIBUTED THROUGHOUT AS DIRECTED)

50	JUNCUS EFFUSUS/CAREX STRICTA	PLUG
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SEEDING FOR WETLAND/UPLAND SHALL INCLUDE THE FOLLOWING LISTS BELOW, APPROVED NEW ENGLAND WETLAND SEED MIX, OR APPROVED EQUAL

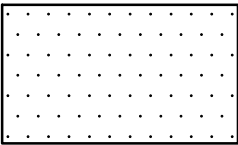
WETLAND

EUPATORIUM PERFOLIATUM / BONESET
ELYMUS VIRGINICUS / VIRGINIA WILD RYE
CAREX VULPINOIDEA / FOX SEDGE
EUTHAMIA GRAMINIFOLIA / GRASS LEAVED GOLDENROD
SCIRPUS CYPERINUS / WOOLGRASS
JUNCUS EFFUSUS / SOFT RUSH

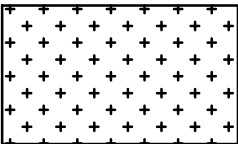
UPLAND

ASTER NOVAE-ANGLIAE / NEW ENGLAND ASTER
CHAMAECRISTA FASCICULATE / PARTRIDGE PEA
SCHIZACHYRIUM SCOPARIUM / LITTLE BLUESTEM
ANDROPOGON GERARDII / BIG BLUESTEM
PANICUM VIRGATUM / SWITCH GRASS
SORGHASTRUM NUTANS / INDIAN GRASS
ELYMUS VIRGINICUS / VIRGINIA WILD RYE

SEEDED AREAS WITH VEGETATIVE PLUGS & JUTE EROSION CONTROL BLANKET:

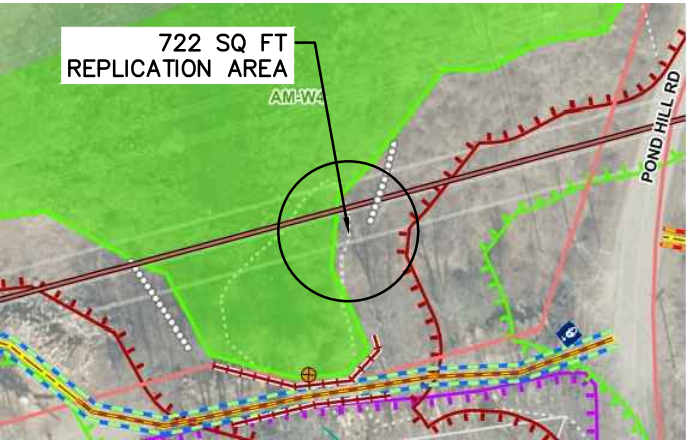


REPLICATED WETLAND

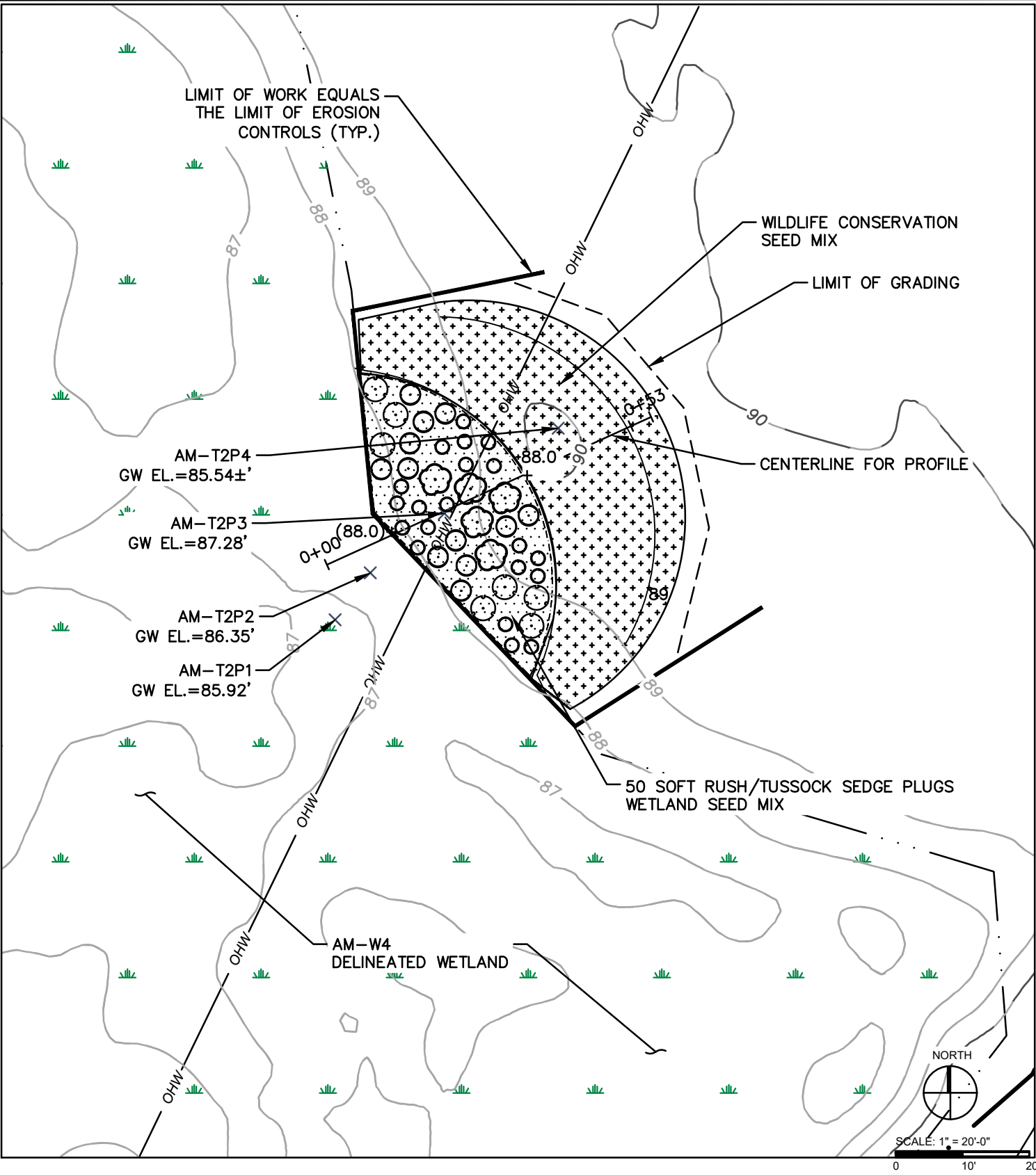


UPLAND

- GRADING NOTES:
CONTOURS SHOWN ARE 1' INTERVAL
GIS NO DATUM
- ×(00.0) EXISTING SPOT GRADE
 - × 00.0 PROPOSED SPOT GRADE
 - — — LIMITS OF GRADING
 - WETLAND REPLICATION AREA
 - - - - - EXISTING WETLAND LINE
 - EROSION CONTROL BARRIER
12" COMPOST FILTER TUBE PLACED AT EDGE OF GRADING

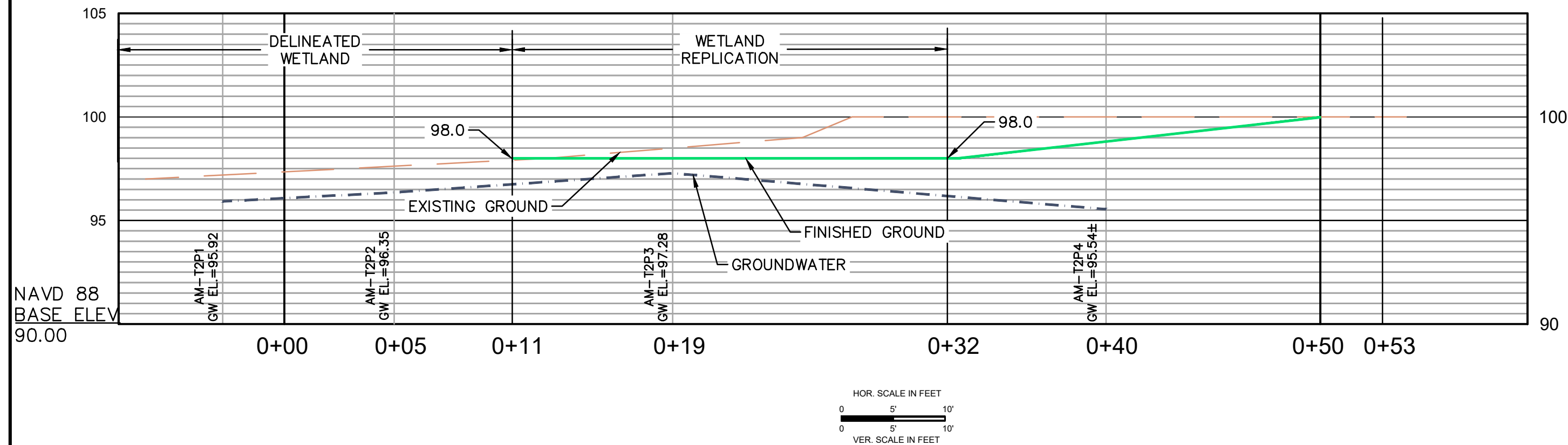


LOCUS



394 AND B/C ACR PROJECT-WETLAND REPLICATION PLAN
AMESBURY, MA

AMESBURY - WETLAND REPLICATION

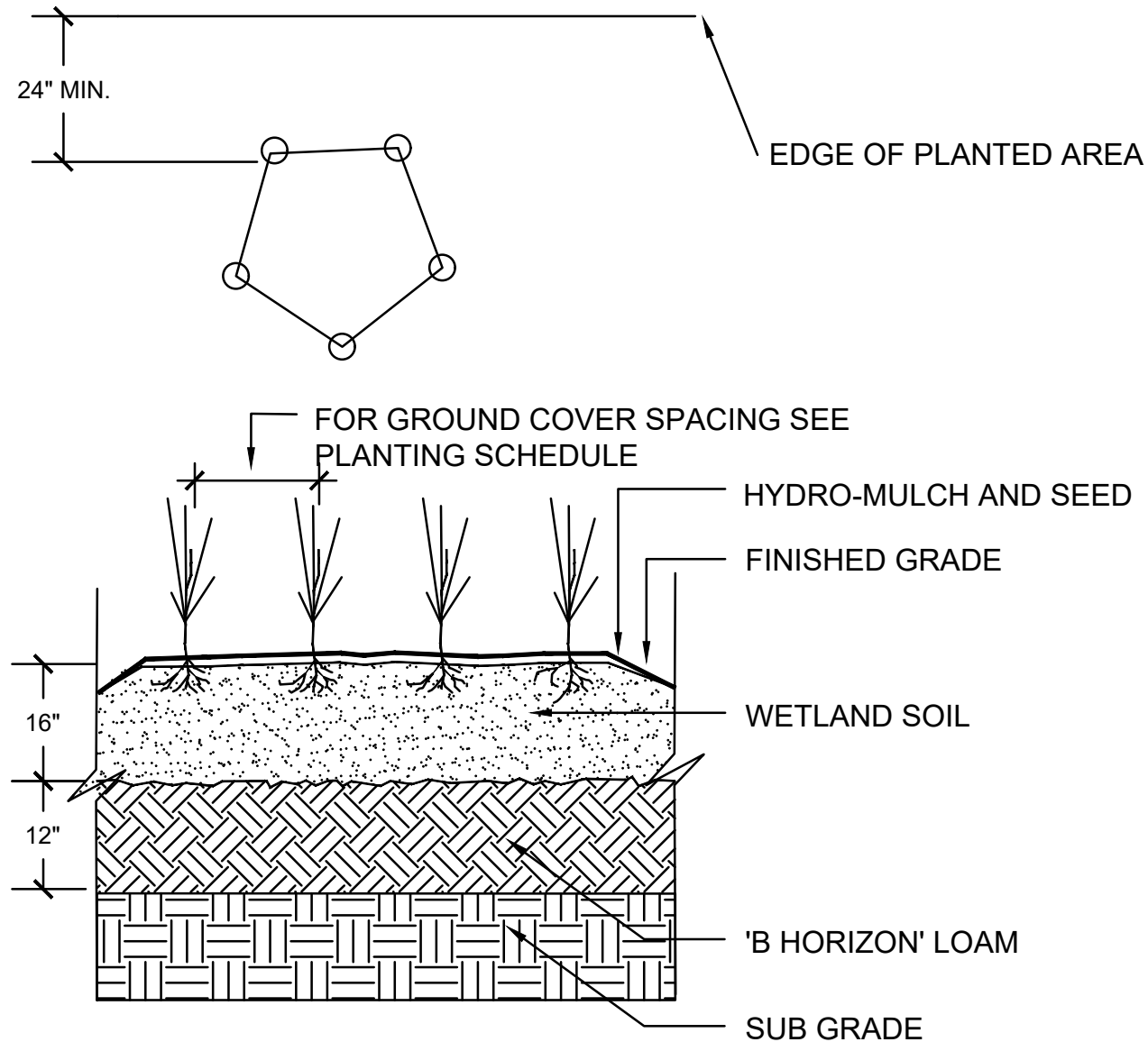


ID	SURF. ELEV. (LIDAR)	DEPTH TO GROUNDWATER (INCHES)	GROUNDWATER ELEV.
AM-T2P1	97.51	15	95.92
AM-T2P2	97.76	17	96.35
AM-T2P3	98.51	15	97.28
AM-T2P4	100.01	>48	95.54±

394 AND B/C ACR PROJECT-WETLAND REPLICATION PLAN
AMESBURY, MA

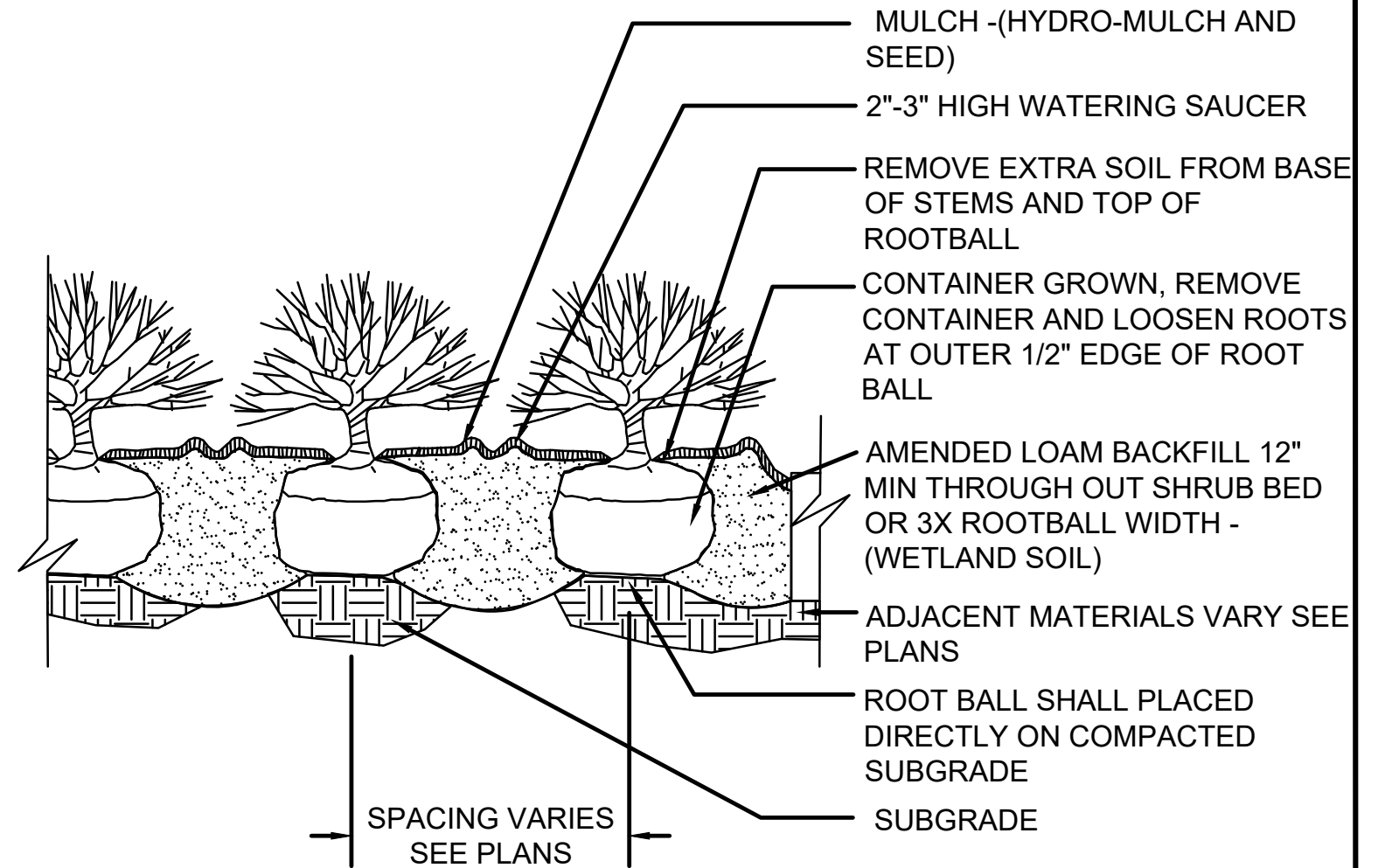
NOTES:

PLANT TUSSOCK PLUGS IN GROUPS OF 2 PER HOLE ARRANGED IN A 18" DIAMETER CIRCLE OF 5
VERIFY 12 INCH MIN. B HORIZON PER TEST PITS AMEND AS NEEDED



HUMMOCK/ WETLAND PLUG PLANTING

SCALE: NONE



NOTES:

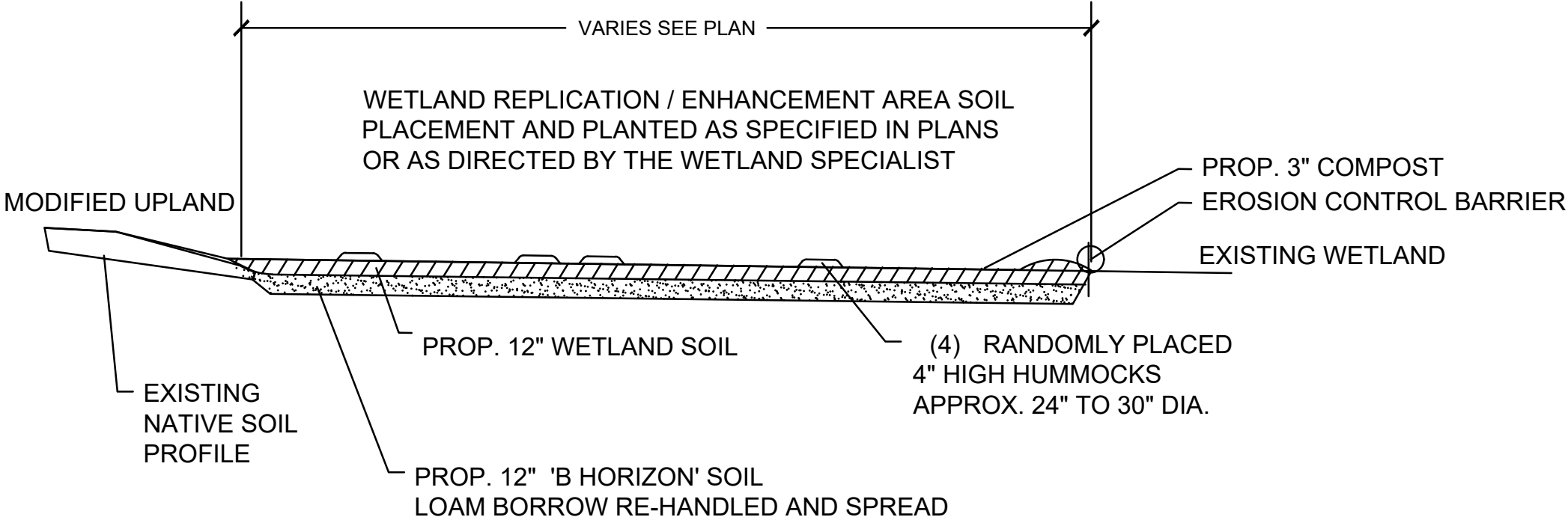
1. NO PRUNING OR CUTTING UNLESS DIRECTED BY THE ENVIRONMENTAL SCIENTIST.
2. WATERING SAUCER SHALL BE FLOODED TWICE DURING THE FIRST 48 HOURS AFTER PLANTING DURING DROUGHT CONDITIONS OR AT THE RECOMMENDATION OF THE ENVIRONMENTAL SCIENTIST.
3. SHRUBS SHALL BE SET PLUMB AND PLANTED SO THAT THE TOP OF THE ROOTBALL IS 1" ABOVE FINISHED GRADE.

SHRUB PLANTING - WOODLAND - (WETLAND)

SCALE: NONE

394 AND B/C ACR PROJECT-WETLAND REPLICATION PLAN AMESBURY, MA

- 1. THE PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE "AMERICAN STANDARD FOR NURSERY STOCK" PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSEYMEN, LATEST EDITION.
- 2. TOPSOIL STRIPPED FROM THE SITE AND PROPERLY STOCKPILED PRIOR TO APPLICATION MAY, UPON APPROVAL OF THE ENGINEER, BE USED FOR PREPARATION OF THE REPLICATION AREA. THE MATERIAL SHOULD BE FREE OF CONTAMINANTS AND OF A FRIABLE CONSISTENCY AND SUITABLE FOR PLANT GROWTH.
- 3. PROVIDE ORGANIC WEED FREE COMPOST FROM A LOCAL SOURCE FOR PLANTING BACK FILL AND TOP DRESSING
- 4. ALL PLANTS ARE SUBJECT TO THE APPROVAL BY THE ENVIRONMENTAL SCIENTIST BEFORE AND DURING INSTALLATION.
- 5. PLANTING WILL BE CONDUCTED WITH OVERSIGHT BE AN ENVIRONMENTAL SCIENTIST AND PLANTS WILL BE SPACED EVENLY TO THE EXTENT PRACTICABLE.
- 6. CONTRACTOR SHALL PROVIDE CLEAN WATER, HOSES AND ALL NECESSARY EQUIPMENT FOR WATERING ASSOCIATED WITH THE PLANTING AND SEEDING OPERATIONS. WATERING WILL BE DONE AS NECESSITATED BY THE TIME OF YEAR OR DROUGHT CONDITIONS AND AS RECOMMENDED BY THE ENVIRONMENTAL SCIENTIST.
- 7. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO THE SECOND FULL GROWING SEASON (MARCH - OCT. EACH YEAR) SHALL BE REMOVED FROM THE SITE AND REPLACED WITH MATERIAL APPROVED BY THE ENVIRONMENTAL SCIENTIST.
- 8. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR TO EXPIRE AFTER THE GROWING SEASON OF THE FOLLOWING YEAR. CONTRACTOR SHALL REQUEST REVIEW AND FORMAL NOTICE OF ACCEPTANCE IN WRITING. THE CONTRACTOR SHALL MAKE ALL REPLACEMENTS BEFORE THE END OF THE GUARANTEE PERIOD NO LATER THAN THE NEXT GROWING SEASON.
- 9. REPLACEMENT SCHEDULE AND CONTENT MAY BE ADJUSTED BY MUTUAL AGREEMENT BASED ON PLANTING SEASON AND AVAILABILITY.



WETLAND REPLICATION - DETAIL SECTION A-A'

SCALE: NONE

394 AND B/C ACR PROJECT-WETLAND REPLICATION PLAN
AMESBURY, MA

Amesbury Site

Transect 1

Profile 1				Profile 2				Profile 3			
Depth	Color	Texture	Redox	Depth	Color	Texture	Redox	Depth	Color	Texture	Redox
0-6	10YR 2/1	SL(mucky mod)	none	0-6	10YR 2/1	SL	none	0-4	10YR 2/2	L	none
6-10	10YR 3/2	SL	7% 7.5YR 3/4	6-10	10YR 2/2	SL	none	4-10	10YR 3/2	L	none
10-15	7.5YR 3/3	SL	5% 5YR 3/4	10-20	10YR 4/4	SL	none	10-18	10YR 3/3	L	none
15-22	2.5Y 5/3	CoSL	3% 7.5YR 3/4	20-30	2.5Y 5/4	CoSL	6% 10YR 4/6	18-28	10YR 4/6	SL	none
								28-38	10YR 5/6	SL	5% 5YR 3/4

Transect 2

Profile 1				Profile 2				Profile 3				Profile 4			
Depth	Color	Texture	Redox	Depth	Color	Texture	Redox	Depth	Color	Texture	Redox	Depth	Color	Texture	Redox
0-10	10YR 2/1	SL	none	0-6	10YR 2/1	SL	none	0-3	10YR 2/1	SL	none	0-6	10YR 3/2	SL	none
10-16	10YR 3/2	SL	8% 10YR 4/6	6-9	10YR 3/2	SL	none	3-6	10YR 2/2	SL	none	6-21	10YR 3/3	SL	none
16+	10YR 5/2	SL	not visible	9-12	10YR 3/3	SL	none	6-15	10YR 5/4	SL	none	21-36	10YR 5/6	SL	none
				12-29	2.5Y 4/4	SL	7% 10YR 4/6	15-36	10YR 5/4	SL	10% 7.5YR 4/6 5% 7.5YR 3/4	36-48+*	10YR 5/2	CoSL	none

*excavated to about 52 inches by digging out around the aguer handle, however sand at the bottom was collapsing so the water table wasn't able to be determined

Transect 3

Profile 1				Profile 2				Profile 3			
Depth	Color	Texture	Redox	Depth	Color	Texture	Redox	Depth	Color	Texture	Redox
0-18	10YR 2/1	SL	none	0-7	10YR 2/2	SL	none	0-6	10YR 2/2	SL	none
18-24	5Y 6/2	SL	3% 10YR 4/6	7-17	10YR 3/2	SL	none	6-15	10YR 3/3	SL	none
24+	washed out of aguer			17-25	10YR 4/4	SL	none	15-26	10YR 4/6	SL	none
				25-36	10YR 4/4	CoSL	6% 7.5YR 4/6	26-38	10YR 4/4	LS	6% 7.5YR 4/6

Abbreviations:

Fine Sandy Loam: FSL	Sandy Loam: SL	Gravelly: GR
Loam: L	Loamy Fine Sand: LFS	Very gravelly: VGR
Loamy Sand: LS	Coarse Sandy Loam: CoSL	Extremely gravelly: XGR



Photo 1: View of proposed wetland replication area in Amesbury, adjacent to AM-W4, looking towards Line 394 Structure 265. The proposed replication area is in a low-lying thicket, at the toe-of-slope above the existing wetland. *Facing Southwest.*



Photo 2: View of proposed wetland replication area in Amesbury, adjacent to AM-W4, looking towards Line 394 Structure 286. The proposed replication area is in a low-lying thicket, at the toe-of-slope above the existing wetland. The replication area will be confined to the limits of the ROW. *Facing Northeast.*