

# PROPOSED VEGETATION REMEDIATION PROGRAM

## AFTER THE FACT NOTICE OF INTENT JOHN VERTENTE BOULEVARD IN NEW BEDFORD, MA

### APPLICANT:

KEARSARGE ENERGY LE LLC  
1380 SOLDIERS FIELD ROAD, SUITE 3-1  
BOSTON, MA 02135

### OWNERS:

DARTMOUTH ASSESSORS MAP 85

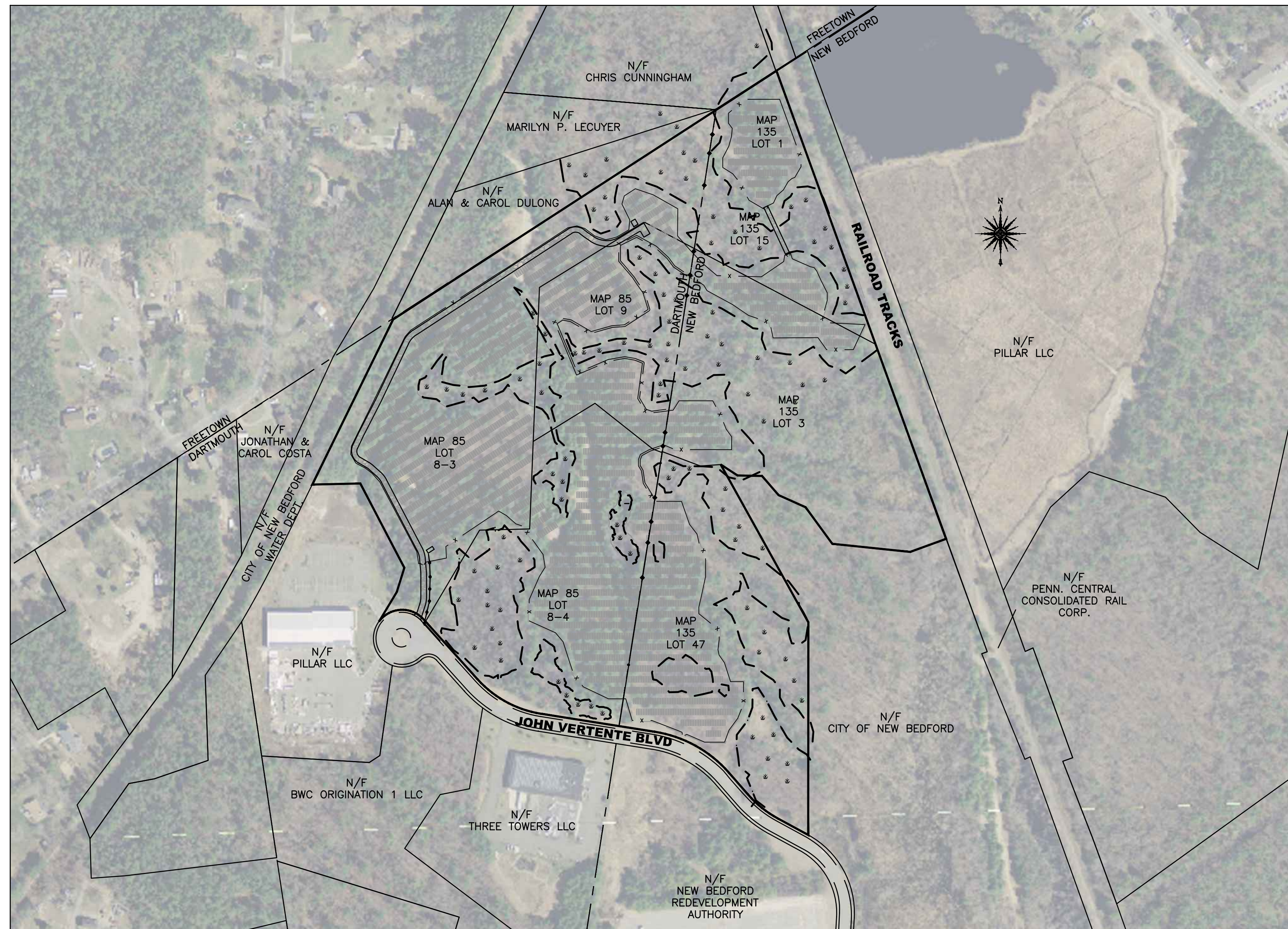
LOTS 8-3, 8-4 AND 9

KEARSARGE ENERGY LE LLC  
1380 SOLDIERS FIELD ROAD, SUITE 3-1  
BOSTON, MA 02135

NEW BEDFORD ASSESSORS MAP 135

LOTS 1, 3, 15 & 47

KEARSARGE ENERGY LE LLC  
1380 SOLDIERS FIELD ROAD, SUITE 3-1  
BOSTON, MA 02135



**LOCUS**  
**SCALE: 1"=200'**

**JULY 7, 2022**  
**REVISED AUGUST 26, 2022**

### SCHEDULE OF DRAWINGS

SHEET #	PLAN TITLE
-	COVER SHEET
1	VEGETATION DISTURBANCE MAP
2	SITE CLEAN UP PLAN
3	PROPOSED VEGETATION REMEDIATION PLAN
4	BUFFER ZONE ENHANCEMENT PLAN

THE PURPOSE OF THIS REMEDIATION PROGRAM IS TO:

1. CHIP THE FELLED TREES AND PLACE THE WOODCHIPS IN WINDROW AS SHOWN ON THESE PLANS. THIS IS TO BE COMPLETED PRIOR TO NOVEMBER 1, 2022.
2. PLANT THE TREES AND SHRUBS SHOWN ON SHEET 3 OF THIS PLAN SET. THIS IS TO BE COMPLETED BY JUNE 1, 2023.
3. COMPLETE THE BUFFER ZONE PLANTING SHOWN ON THE "BUFFER ZONE ENHANCEMENT PLAN" APPROVED IN THE ORIGINAL ORDER OF CONDITIONS AND ENCLOSED AS SHEET 4 IN THIS PLAN SET, THIS IS TO BE COMPLETED BY JUNE 1, 2023.
4. STABILIZE THE GROUND SURFACE THROUGHOUT THE PROJECT BY PLANTING THE HERBACEOUS SPECIES PRESENTED ON SHEET 2 OF THIS PLAN SET, THIS IS TO BE COMPLETED BY JUNE 1, 2023.

THE REMEDIATION PROGRAM IS TO BE MONITORED BY A WETLAND SCIENTIST WHO WILL PERIODICALLY REPORT TO THE CONSERVATION COMMISSION.

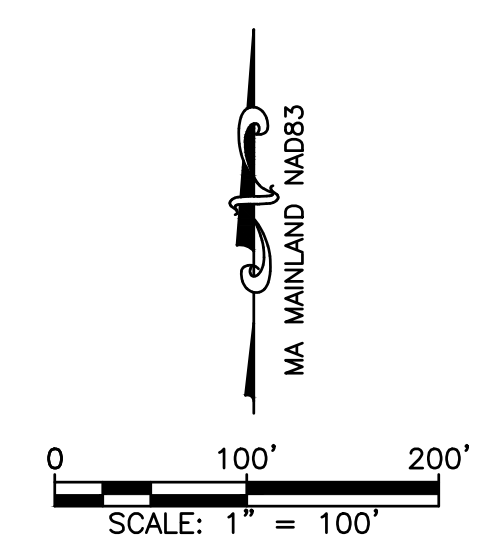
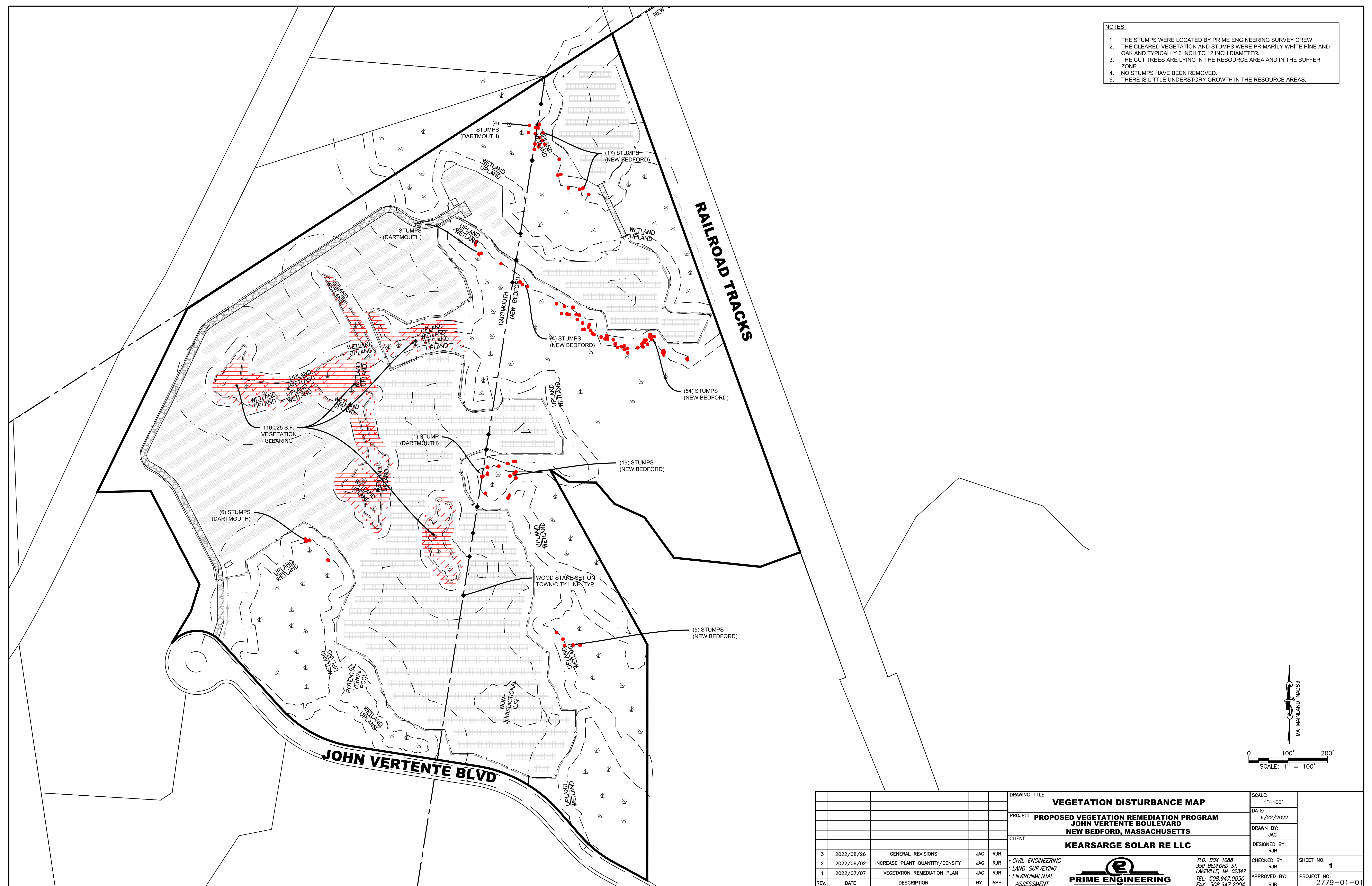
**PREPARED BY:**




CIVIL ENGINEERING—LAND SURVEYING—ENVIRONMENTAL ASSESSMENT  
P.O. BOX 1088, 350 BEDFORD STREET, LAKEVILLE, MA 02347  
TEL: 508.947.0050 FAX: 508.947.2004

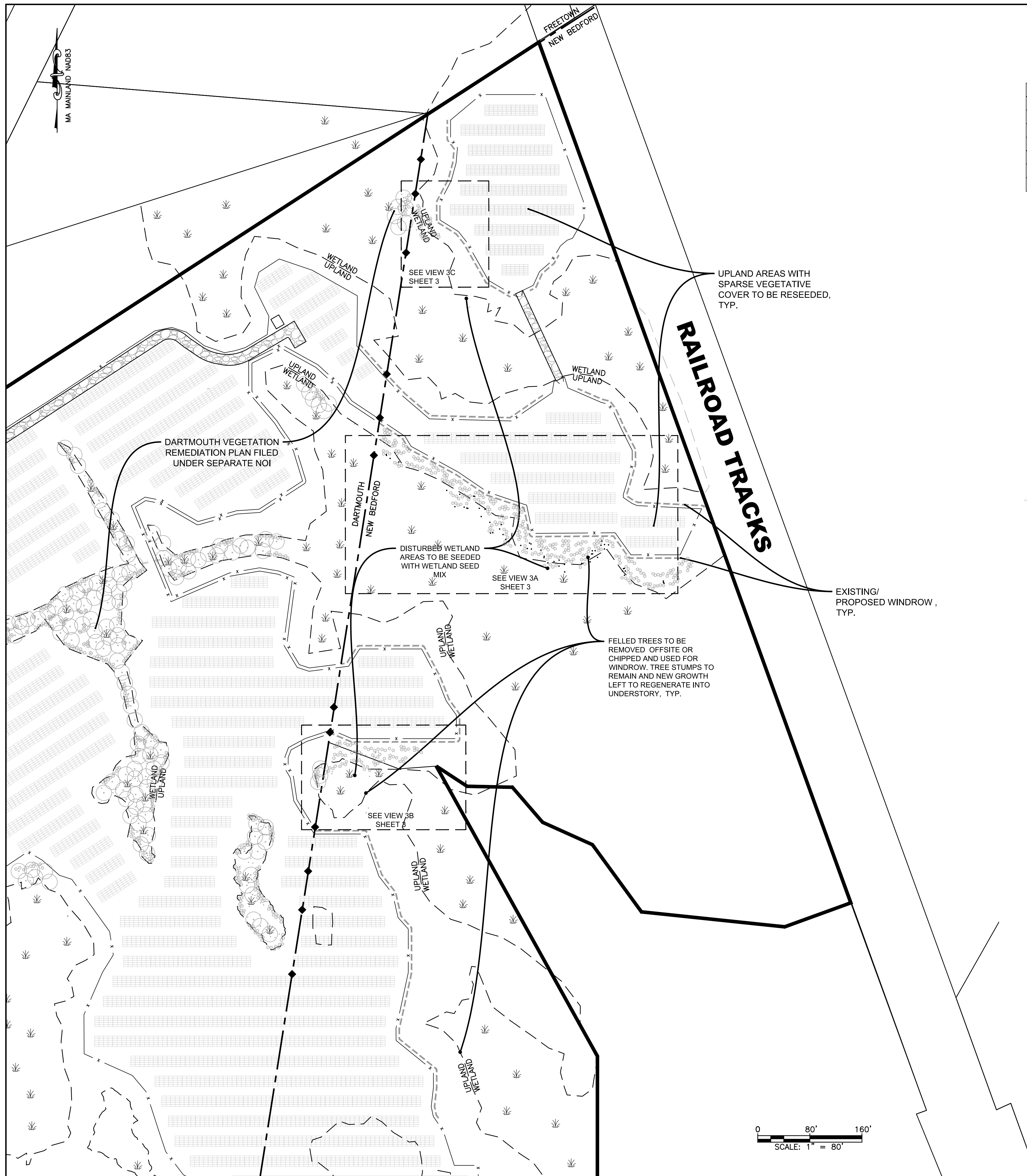


- NOTES:**
1. THE STUMPS WERE LOCATED BY PRIME ENGINEERING SURVEY CREW.
  2. THE CLEARED VEGETATION AND STUMPS WERE PRIMARILY WHITE PINE AND OAK AND TYPICALLY 6 INCH TO 12 INCH DIAMETER.
  3. THE CUT TREES ARE LYING IN THE RESOURCE AREA AND IN THE BUFFER ZONE.
  4. NO STUMPS HAVE BEEN REMOVED.
  5. THERE IS LITTLE UNDERSTORY GROWTH IN THE RESOURCE AREAS.



				DRAWING TITLE <b>VEGETATION DISTURBANCE MAP</b>		SCALE: 1"=100'
				PROJECT <b>PROPOSED VEGETATION REMEDIATION PROGRAM JOHN VERTENTE BOULEVARD NEW BEDFORD, MASSACHUSETTS</b>		DATE: 6/22/2022
				CLIENT <b>KEARSARGE SOLAR RE LLC</b>		DRAWN BY: JAG
						DESIGNED BY: RJR
3	2022/08/26	GENERAL REVISIONS	JAG	RJR	CIVIL ENGINEERING LAND SURVEYING ENVIRONMENTAL ASSESSMENT  P.O. BOX 1088 350 BEDFORD ST. LAKEVILLE, MA 02347 TEL: 508.947.0050 FAX: 508.947.2004	CHECKED BY: RJR
2	2022/08/02	INCREASE PLANT QUANTITY/DENSITY	JAG	RJR		APPROVED BY: RJR
1	2022/07/07	VEGETATION REMEDIATION PLAN	JAG	RJR		
REV.	DATE	DESCRIPTION	BY	APP.		





**UPLAND SEED MIX:**

DISTURBED HERBACEOUS UPLAND AREAS TO BE SEEDED WITH ONE POUND PER 1,250 SQUARE FEET OF NEW ENGLAND WETLAND PLANTS, INC. NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DRY SITES SEED MIX, OR APPROVED EQUAL WHICH CONTAINS THE FOLLOWING SPECIMENS:

Botanical Name	Common Name	Indicator
<i>Elymus canadensis</i>	Canada Wild Rye	FACU+
<i>Festuca rubra</i>	Red Fescue	FACU
<i>Lolium multiflorum</i>	Annual Ryegrass	
<i>Lolium perenne</i>	Perennial Ryegrass	
<i>Schizachyrium scoparium</i>	Little Bluestem	FACU
<i>Panicum virgatum</i>	Switch Grass	FAC
<i>Sorghastrum nutans</i>	Indian Grass	UPL

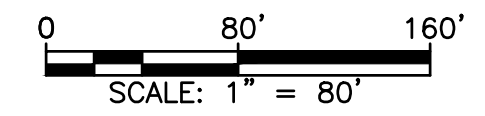
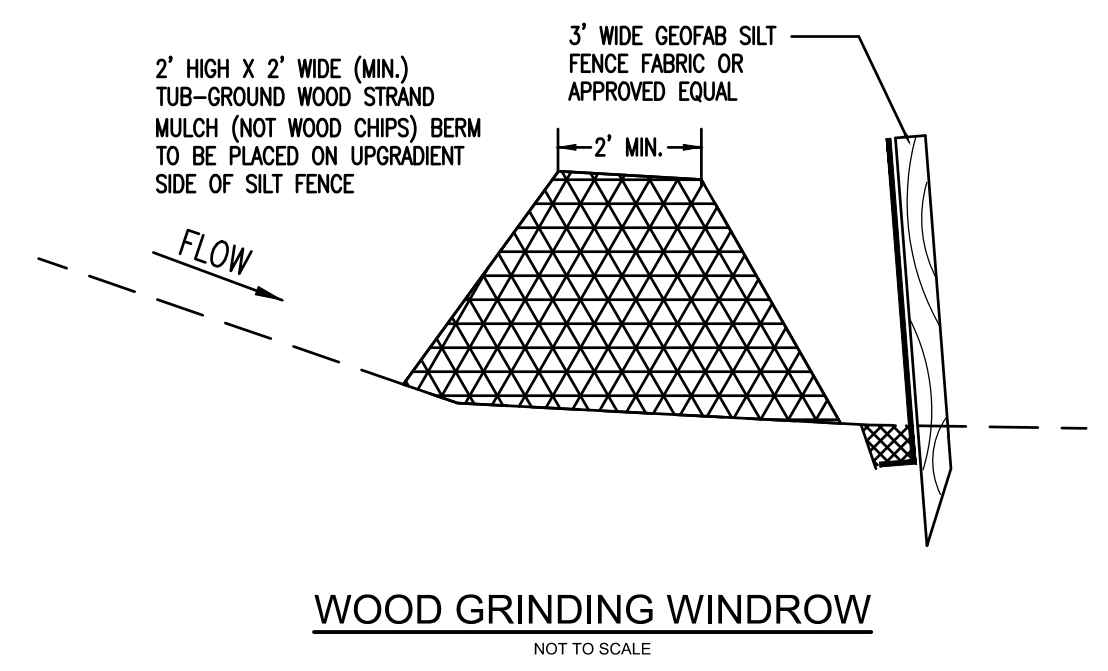
**WETLAND SEED MIX:**

DISTURBED HERBACEOUS WETLAND AREAS TO BE SEEDED WITH ONE POUND PER 2,500 SQUARE FEET OF NEW ENGLAND WETLAND PLANTS, INC. NEW ENGLAND WETMIX SEED MIX, OR APPROVED EQUAL WHICH CONTAINS THE FOLLOWING SPECIMENS:

Botanical Name	Common Name	Indicator
<i>Carex vulpinoidea</i>	Fox Sedge	OBL
<i>Carex scoparia</i>	Blunt Broom Sedge	FACW
<i>Carex lurida</i>	Lurid Sedge	OBL
<i>Carex lupulina</i>	Hop Sedge	OBL
<i>Poa palustris</i>	Fowl Bluegrass	FACW
<i>Bidens frondosa</i>	Beggar Ticks	FACW
<i>Scirpus atrovirens</i>	Green Bulrush	OBL
<i>Asclepias incarnata</i>	Swamp Milkweed	OBL
<i>Carex crinita</i>	Fringed Sedge	OBL
<i>Vermonia noveboracensis</i>	New York Ironweed	FACW+
<i>Juncus effusus</i>	Soft Rush	FACW+
<i>Aster lateriflorus (Symphyotrichum lateriflorum)</i>	Starved/Calico Aster	FACW
<i>Iris versicolor</i>	Blue Flag	OBL
<i>Glyceria grandis</i>	American Mannagrass	OBL
<i>Mimulus ringens</i>	Square Stemmed Monkey Flower	OBL
<i>Eupatorium maculatum (Eutrochium maculatum)</i>	Spotted Joe Pye Weed	OBL


**GENERAL SITE WORK NOTES**

- CONTRACTOR TO ARRANGE ACCESS FOR NEW BEDFORD CONSERVATION COMMISSION AGENT TO CONDUCT SITE VISITS.
- ALL FELLED TREES TO BE REMOVED OFFSITE OR CHIPPED AND USED FOR WINDROWS.
- TREE STUMPS TO REMAIN AND NEW GROWTH LEFT TO REGENERATE INTO UNDERSTORY.
- NO ADDITIONAL CUTTING OF STANDING TREES IS PERMITTED.
- NO ADDITIONAL DISTURBANCE TO WETLAND AREAS IS PERMITTED.
- HEAVY MACHINERY SHOULD NOT BE USED WITHIN WETLAND AREA TO AVOID COMPACTION.
- SECTIONS OF EXISTING CHAINLINK FENCE MAY NEED TO BE TEMPORARILY REMOVED TO COMPLETE CLEAN UP.
- AREAS OF SPARSE HERBACEOUS VEGETATION SHOULD BE SEEDED, INCLUDING UPLAND AND WETLAND AREAS DISTURBED BY TREE REMOVAL/CLEAN UP WORK AND UPLAND AREAS THAT HAVE NOT YET ESTABLISHED A GROUND COVER OF OVER 75%.
- ONCE THE FELLED TREE REMOVAL IS COMPLETE, A REPORT WITH PICTURES OF THE OUTCOME SHALL BE SUBMITTED TO THE CONSERVATION COMMISSION.



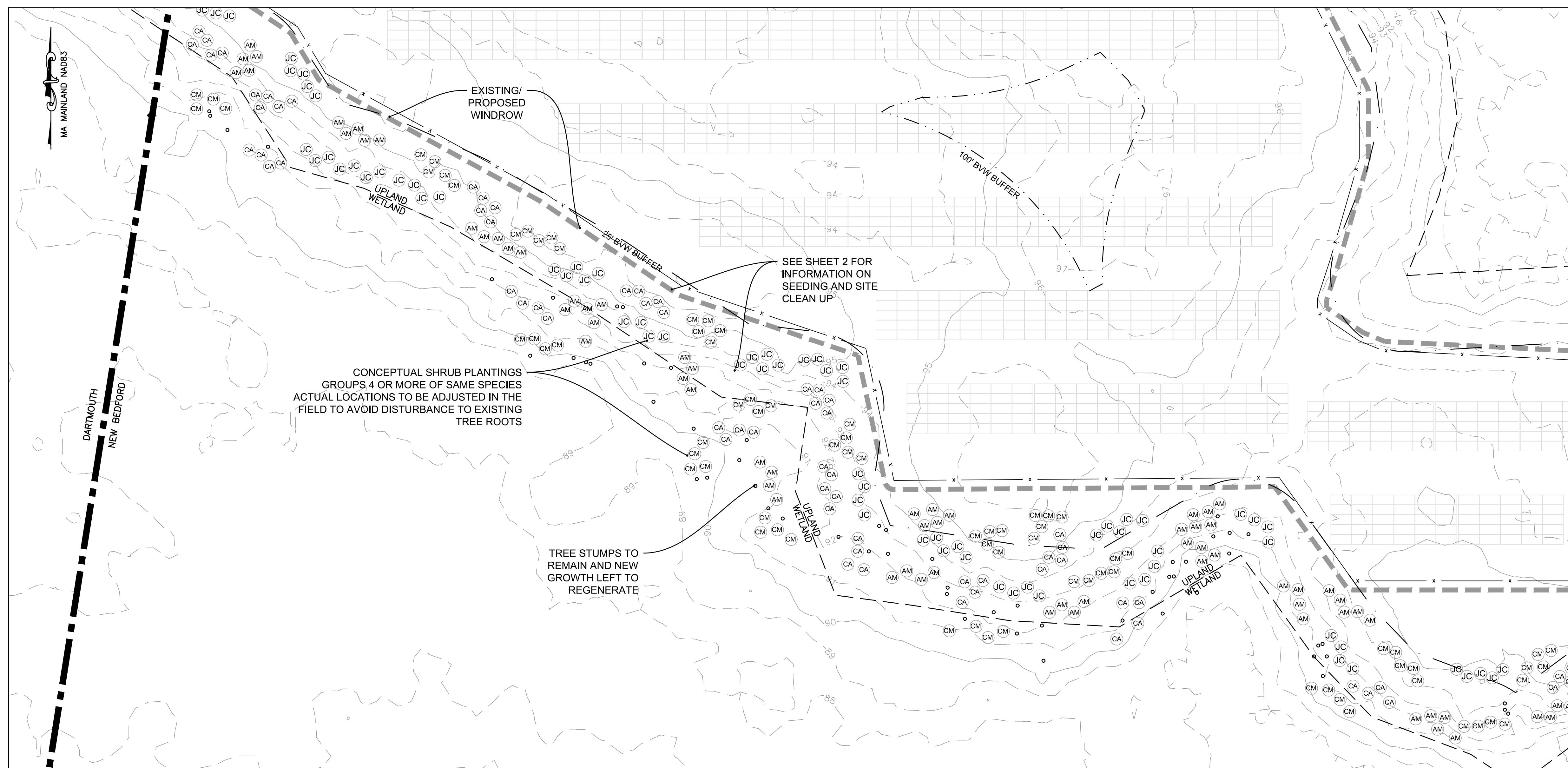
DRAWING TITLE				SCALE: 1"=80'	
<b>SITE CLEAN UP PLAN</b>				DATE: 6/22/2022	
PROJECT				DRAWN BY: JAG	
<b>PROPOSED VEGETATION REMEDIATION PROGRAM JOHN VERTENTE BOULEVARD NEW BEDFORD, MASSACHUSETTS</b>				DESIGNED BY: RJR	
CLIENT				CHECKED BY: RJR	
<b>KEARSARGE SOLAR RE LLC</b>				APPROVED BY: RJR	
3	2022/08/26	GENERAL REVISIONS	JAG	RJR	SHEET NO. <b>2</b> PROJECT NO. 2779-01-01
2	2022/08/02	INCREASE PLANT QUANTITY/DENSITY	JAG	RJR	
1	2022/07/07	VEGETATION REMEDIATION PLAN	JAG	RJR	
REV.	DATE	DESCRIPTION	BY	APP.	

P.O. BOX 1088  
350 BEDFORD ST.  
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**PRIME ENGINEERING**  
INC.



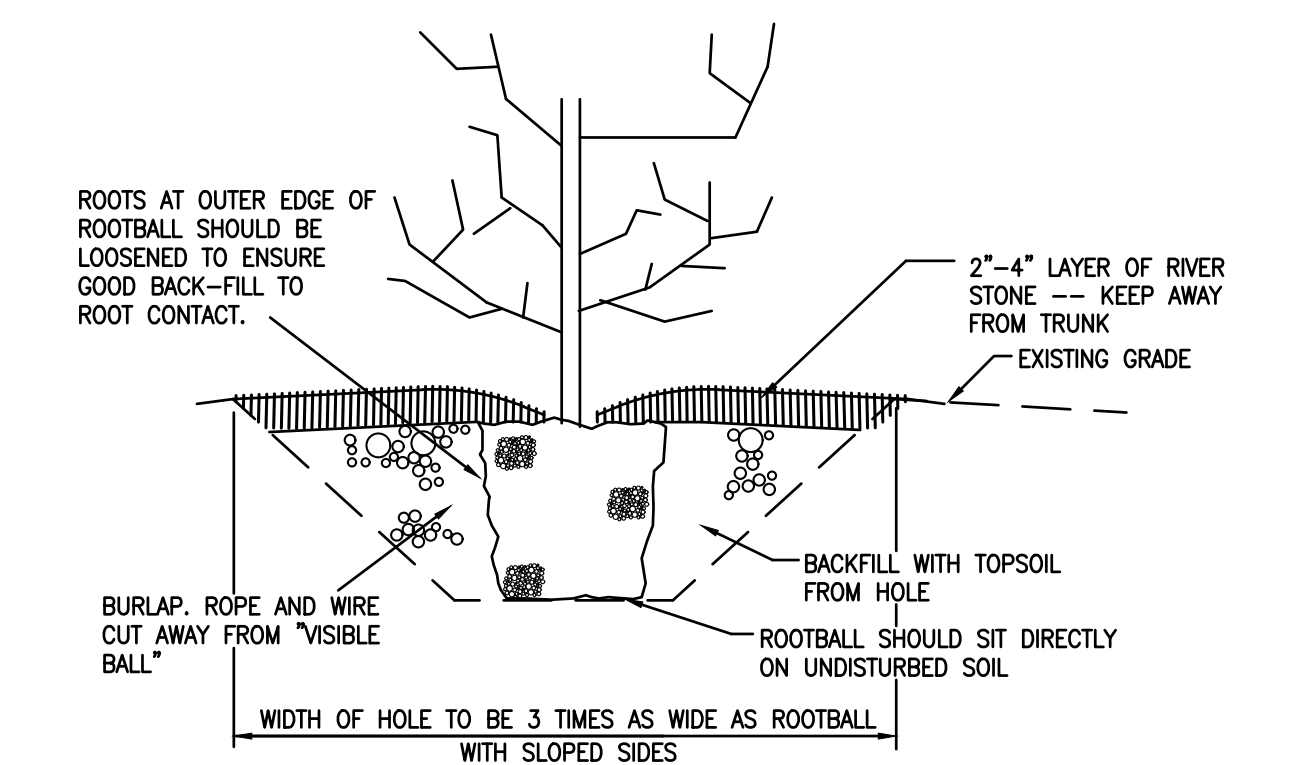


**GENERAL VEGETATION REMEDIATION NOTES:**

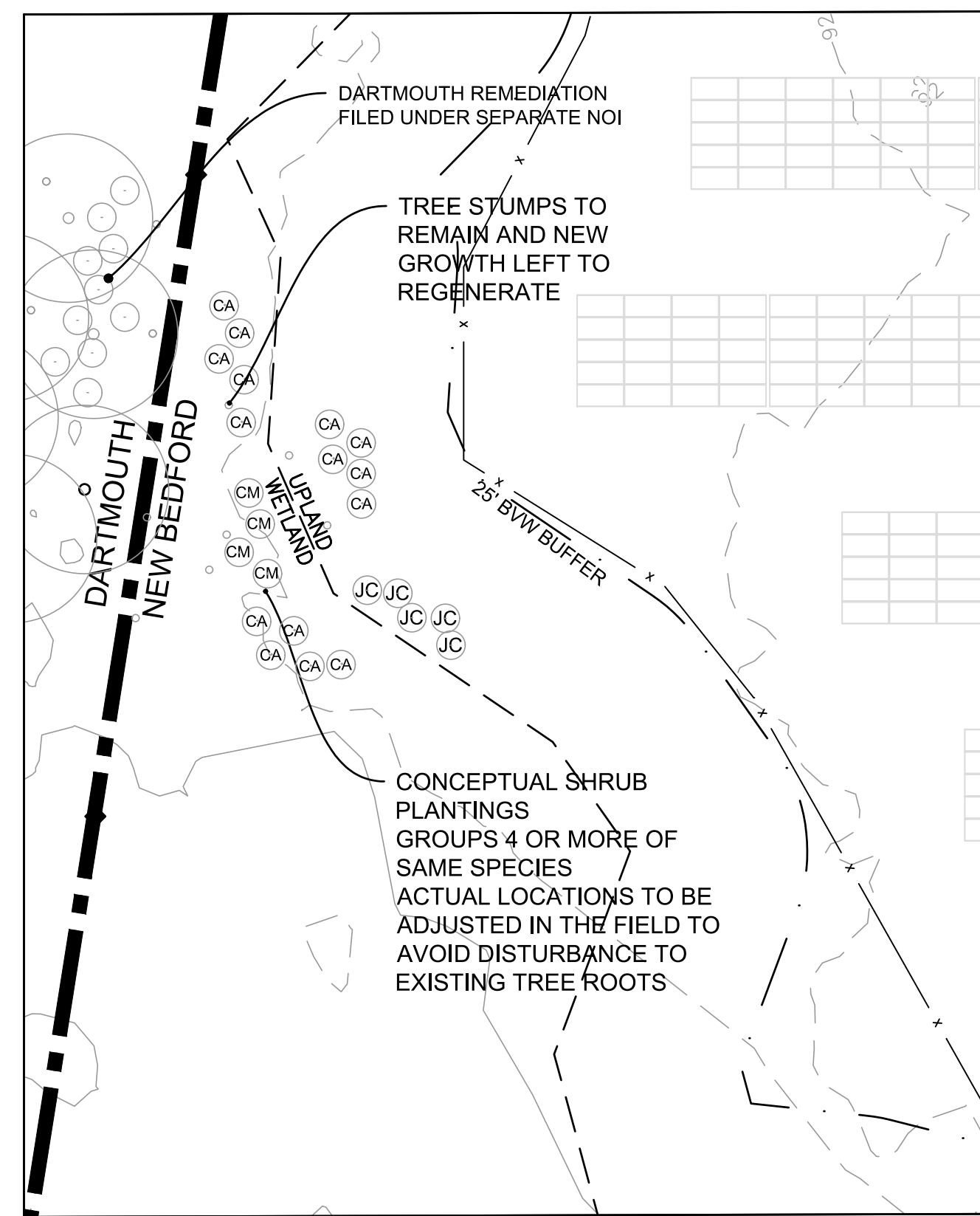
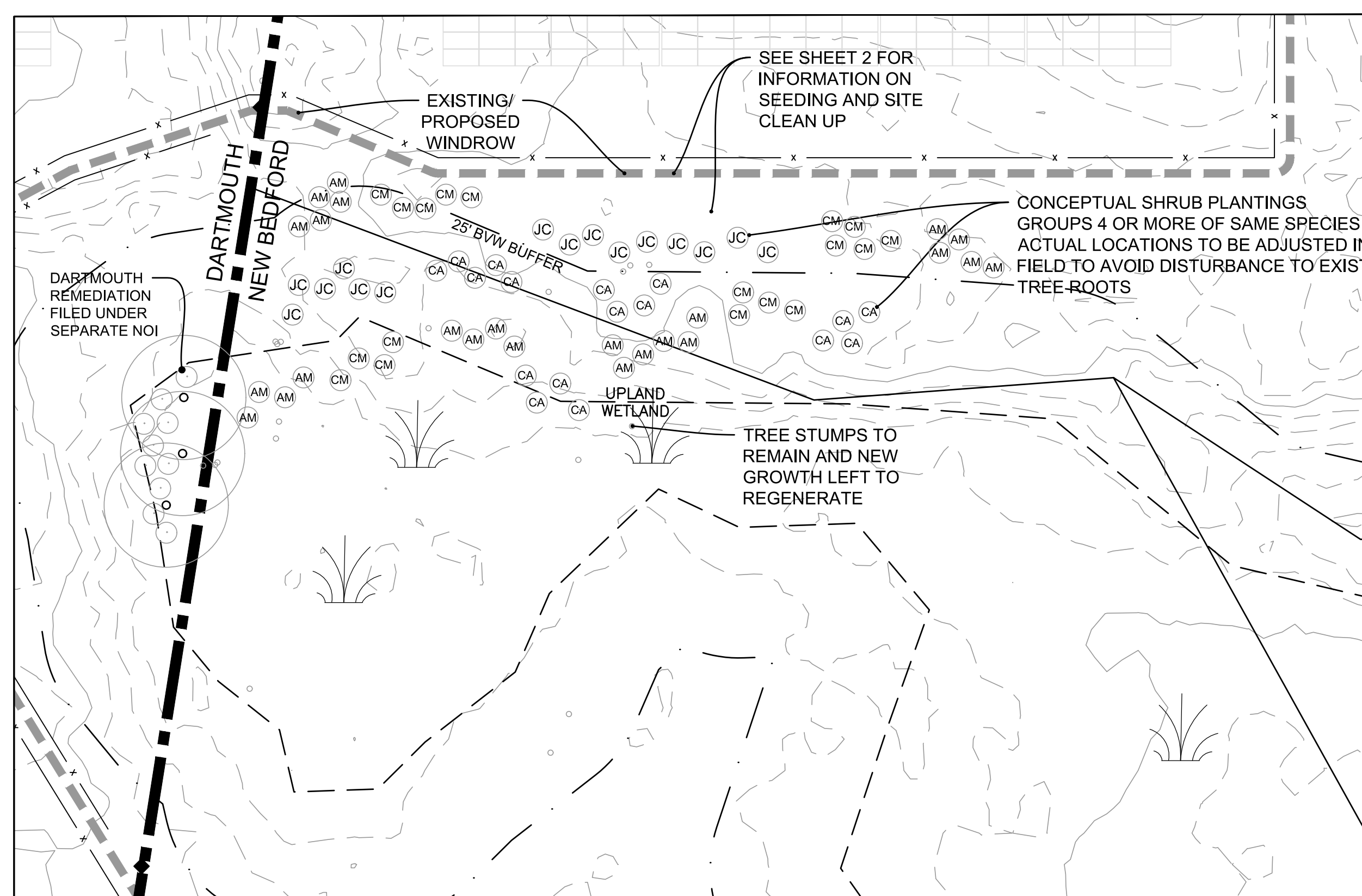
- SEE WORK SCHEDULE BELOW. PLANTING WILL OCCUR DURING THE GROWING SEASON. THE GROWING SEASON FOR BRISTOL COUNTY (SOUTHERN) ACCORDING TO THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION INLAND WETLAND REPLICATION GUIDELINES IS APRIL 24TH TO OCTOBER 11TH.
- ALL PLANTINGS SHALL COME FROM A REPUTABLE PLANT NURSERY OR GARDEN CENTER WITH RECEIPT OF RECEIVING ALL PLANT MATERIAL SPECIFIED IN THIS RESTORATION PLAN AND FOR THE RECEIPT TO BE SUBMITTED TO THE CONSERVATION COMMISSION.
- SEE PLANTING SCHEDULE FOR NUMBER OF SPECIES. THE LOCATIONS SHOWN ON THE PLAN ARE APPROXIMATE AND SHOULD BE ADJUSTED ON SITE, TO AVOID DAMAGE TO EXISTING TREE ROOTS AND INCREASE THE SUCCESSFUL ESTABLISHMENT OF PLANTINGS.
- PRIOR TO SHRUB PLANTING, PLANTS SHALL BE "LAYED OUT" IN GROUPS OF THE SAME SPECIES (5 OR 10 PLANTS PER GROUP).
- ONCE HOLES ARE DUG FOR EACH INDIVIDUAL TREE PLANTING, 1 PART ORGANIC COW MANURE AND 2 PARTS ORGANIC PEAT SHALL BE PLACED IN THE HOLE TO PROVIDE NUTRIENTS TO THE NEW PLANTS.
- ALL BURLAP SHALL BE REMOVED FROM PLANT SPECIMENS AND ROOTS SHALL BE TEASED APART GENTLY. PLANTS CAN THEN BE PLACED IN THEIR HOLES AND COVERED WITH LOAM UP TO THE BASE OF THE PLANT.
- ONCE ALL PLANTING IS DONE, A REPORT WITH PICTURES OF THE OUTCOME SHALL BE SUBMITTED TO THE CONSERVATION COMMISSION.
- THROUGHOUT THE VEGETATION REMEDIATION PROCESS THE NUMBER AND PLACEMENT OF PLANTINGS AT THE REPLICATION LOCATION MAY BE MODIFIED DEPENDING ON UNANTICIPATED CONDITIONS, IF SO RECOMMENDED BY THE CONSERVATION AGENT.
- THE VEGETATION REMEDIATION PROCESS SHALL BE MONITORED BY A WETLAND SCIENTIST RETAINED BY THE OWNER AND BY THE DARTMOUTH CONSERVATION AGENT. THE REMEDIATED AREA SHALL BE INSPECTED BY A WETLAND SCIENTIST IN THE SPRING OF 2023 AND THE SPRING OF 2024 AND THE CONDITION OF THE REMEDIATED AREAS SHALL BE REPORTED TO THE DARTMOUTH CONSERVATION COMMISSION.

**PROPOSED CONSTRUCTION SCHEDULE**

- SUMMER 2022**—  
FELLED TREES TO BE REMOVED OFFSITE OR CHIPPED AND USED FOR WINDROWS. DISTURBED OR SPARSE AREAS OF HERBACIOUS GROWTH TO BE SEEDDED.
- FALL 2022**—  
PROPOSED PLANTINGS TO BE INSTALLED NO LATER THAN OCTOBER 11TH, 2022. DISTURBED OR SPARSE AREAS OF HERBACIOUS GROWTH TO BE SEEDDED.
- SPRING 2023**—  
FIRST MONITORING REPORT DUE.
- FALL 2023**—  
OCTOBER 11TH, 2023 IS THE DEADLINE FOR ANY PLANT REPLACEMENT OR RESEEDING IDENTIFIED IN THE SPRING 2023 MONITORING REPORT.
- SPRING 2024**—  
SECOND MONITORING REPORT DUE. CONSERVATION COMMISSION TO ISSUE AN CERTIFICATE OF COMPLIANCE IF REQUIREMENTS HAVE BEEN MET.



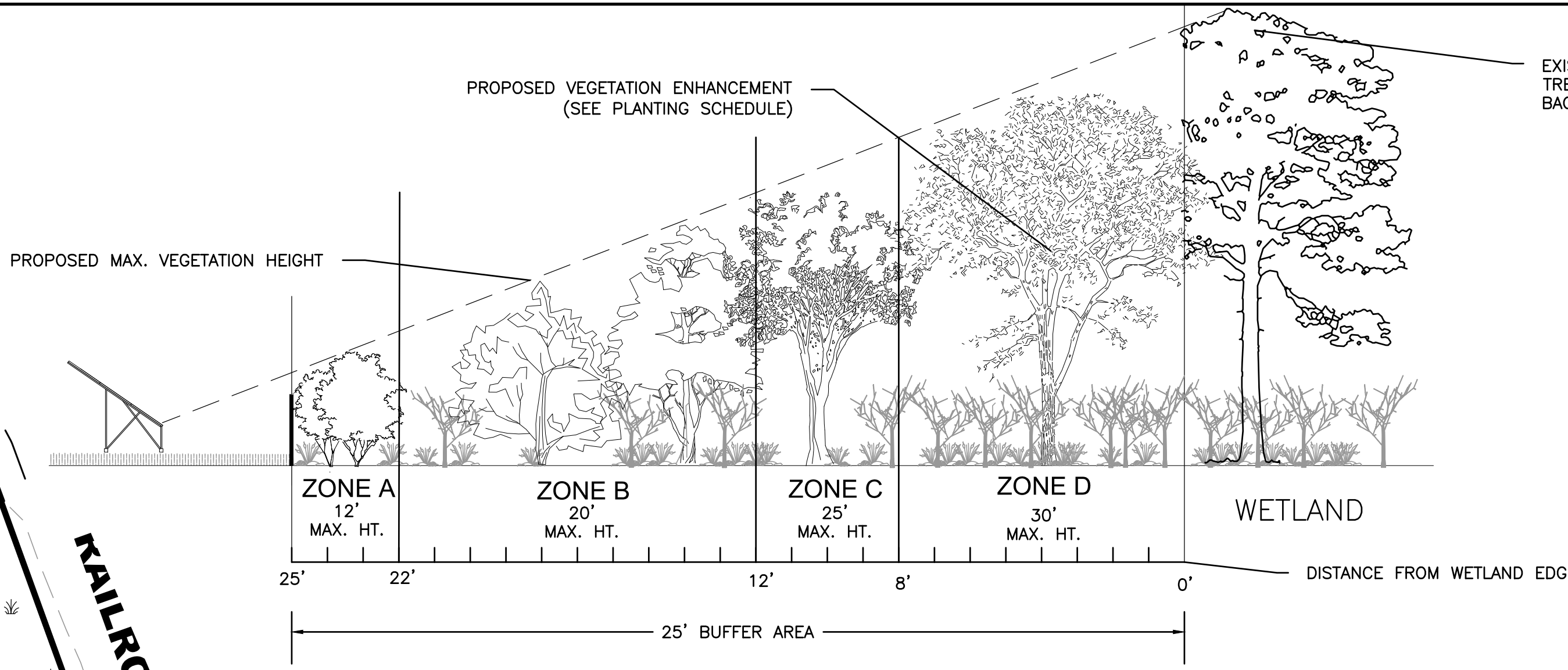
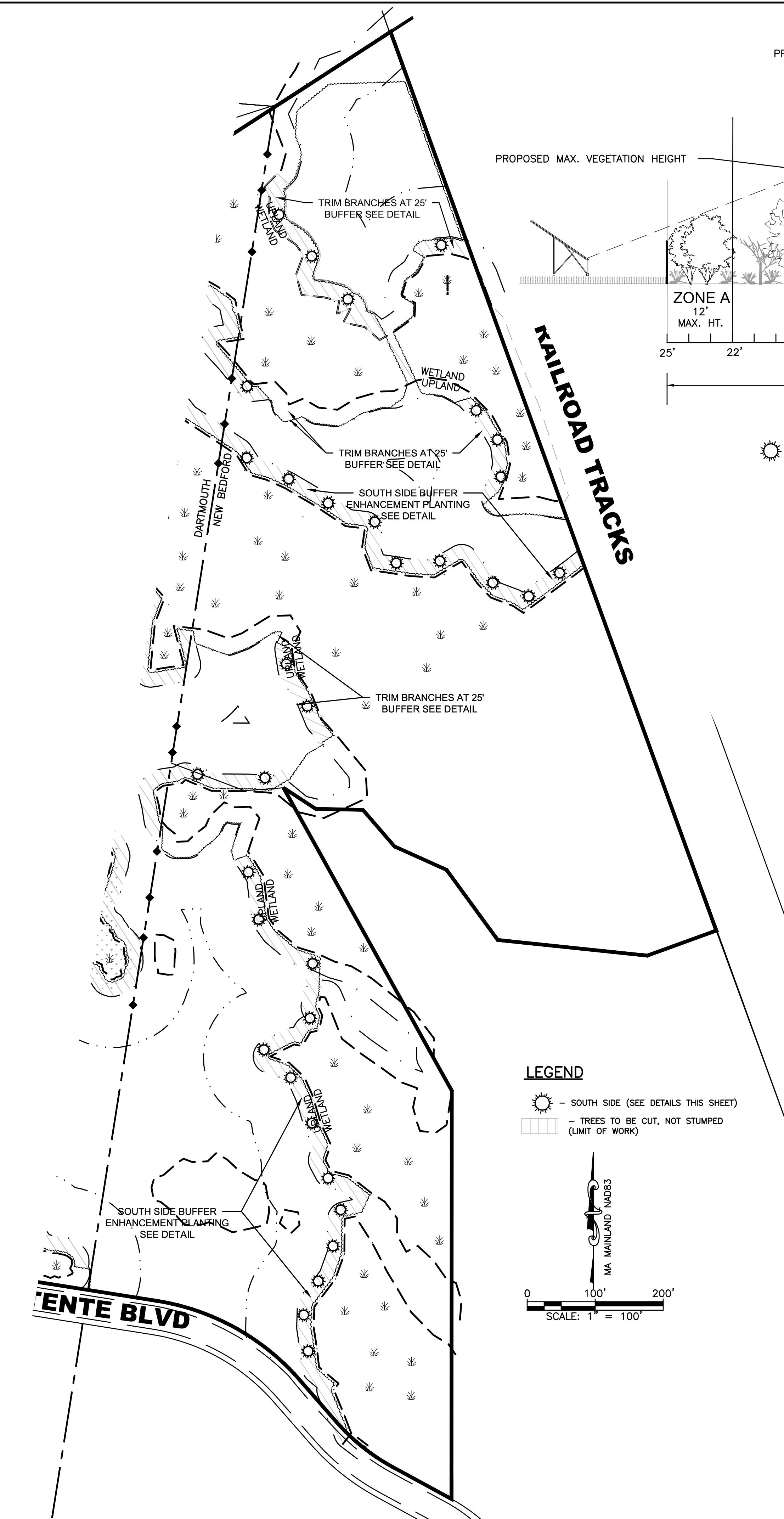
**CONTAINER GROWN SHRUB AND TREE PLANTING DETAIL**  
NOT TO SCALE



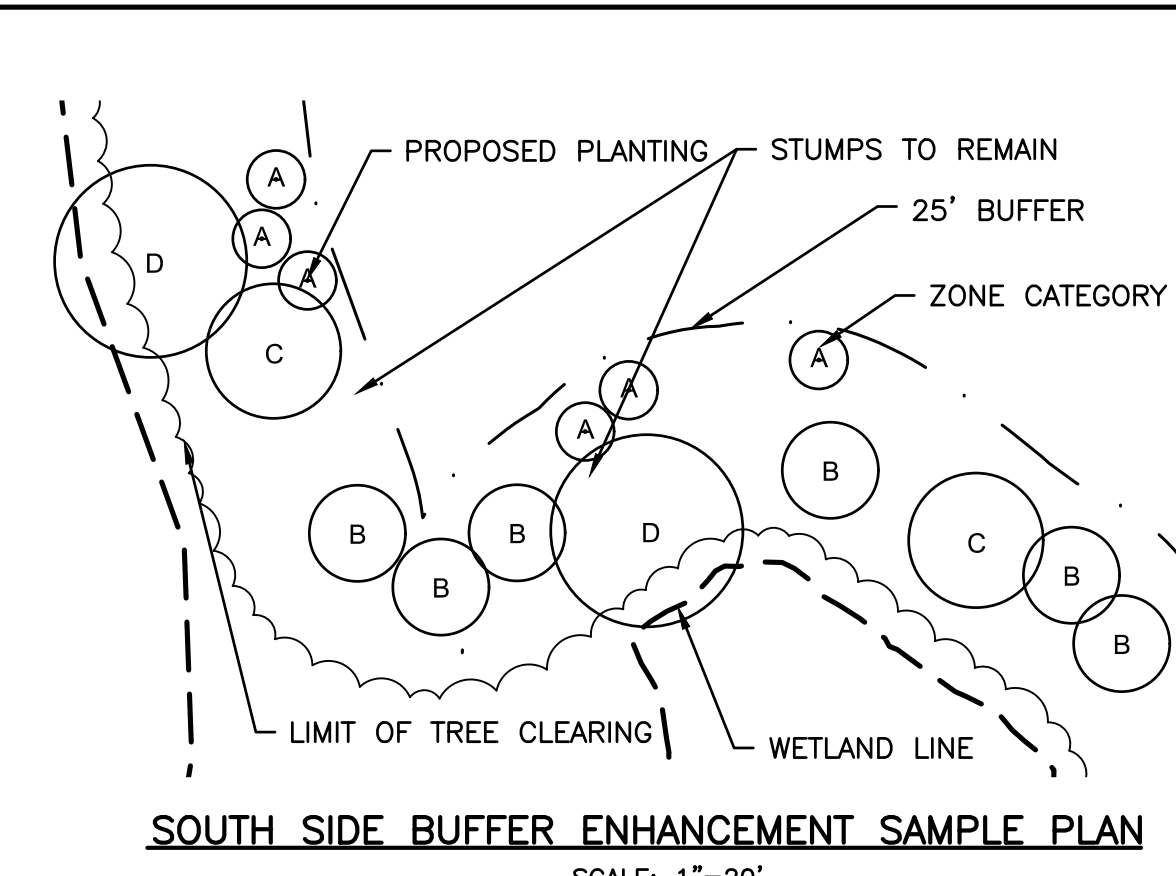
**VEGETATION REMEDIATION PLANTING SCHEDULE**

SYMBOL	LATIN NAME	COMMON NAME	WETLAND INDICATOR STATUS	MIN. SIZE	QUANTITY
AM	ARONIA MELANOCARPA	BLACK CHOKEBERRY	FAC	18"-24" HT.	100
CA	CEANOTHUS AMERICANUS	NEW JERSEY TEA	FACU-	18"-24" HT.	100
CM	CORBY'S AMOMUM	SILKY DOGWOOD	FACW	18"-24" HT.	100
JC	JUNIPERUS COMMUNIS	COMMON JUNIPER	FAC	18"-24" HT.	100

DRAWING TITLE <b>PROPOSED VEGETATION REMEDIATION PLAN</b>				SCALE: 1"=80'
PROJECT <b>PROPOSED VEGETATION REMEDIATION PROGRAM JOHN VERTENTE BOULEVARD NEW BEDFORD, MASSACHUSETTS</b>				DATE: 6/22/2022
CLIENT <b>KEARSARGE SOLAR RE LLC</b>				DRAWN BY: JAG
REV. DATE DESCRIPTION BY APP.				DESIGNED BY: RJR
3	2022/08/26	GENERAL REVISIONS	JAG RJR	CHECKED BY: RJR
2	2022/08/02	INCREASE PLANT QUANTITY/DENSITY	JAG RJR	APPROVED BY: RJR
1	2022/07/07	VEGETATION REMEDIATION PLAN	JAG RJR	SHEET NO. <b>3</b>
P.O. BOX 1088 350 BEDFORD ST. LAKEVILLE, MA 02347 TEL: 508.947.0050 FAX: 508.947.2004 				PROJECT NO. 2779-01-01



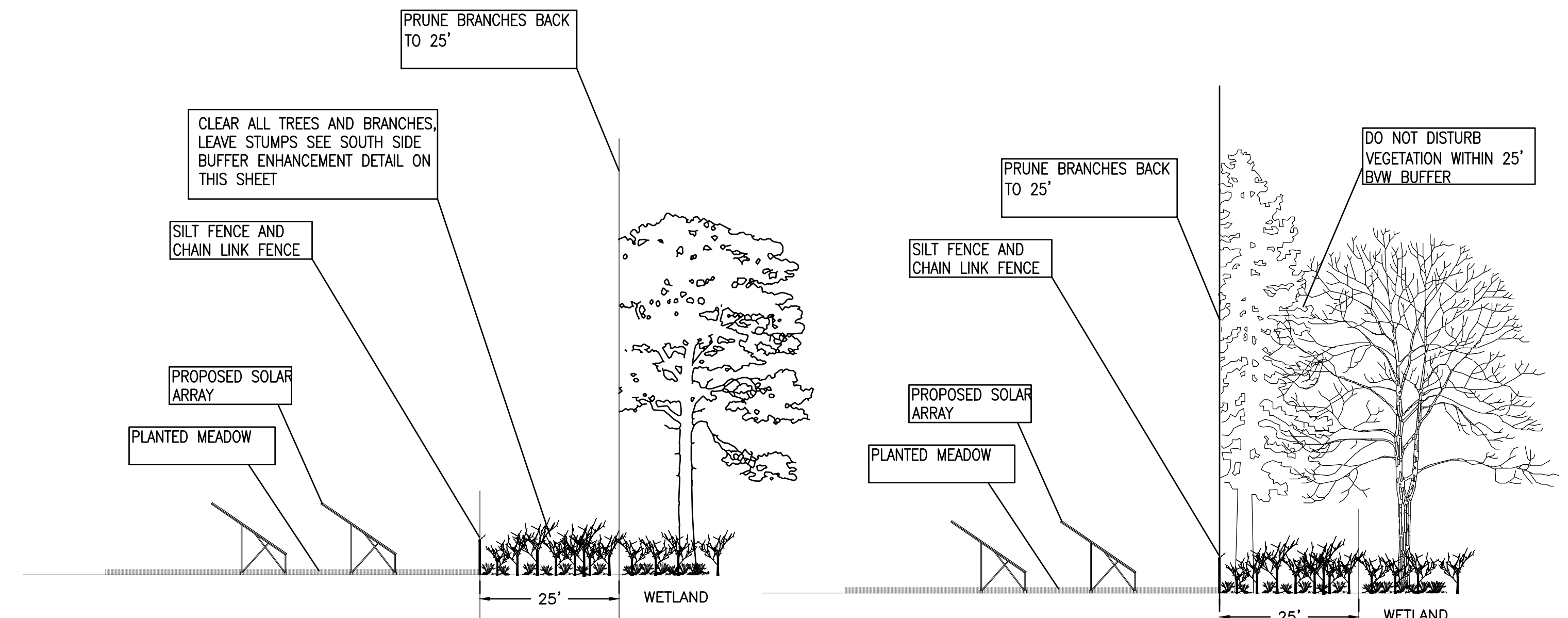
**SOUTH SIDE BUFFER ENHANCEMENT PLANTING**  
APPROXIMATELY TO SCALE



**SOUTH SIDE BUFFER ENHANCEMENT SAMPLE PLAN**  
SCALE: 1"=20'

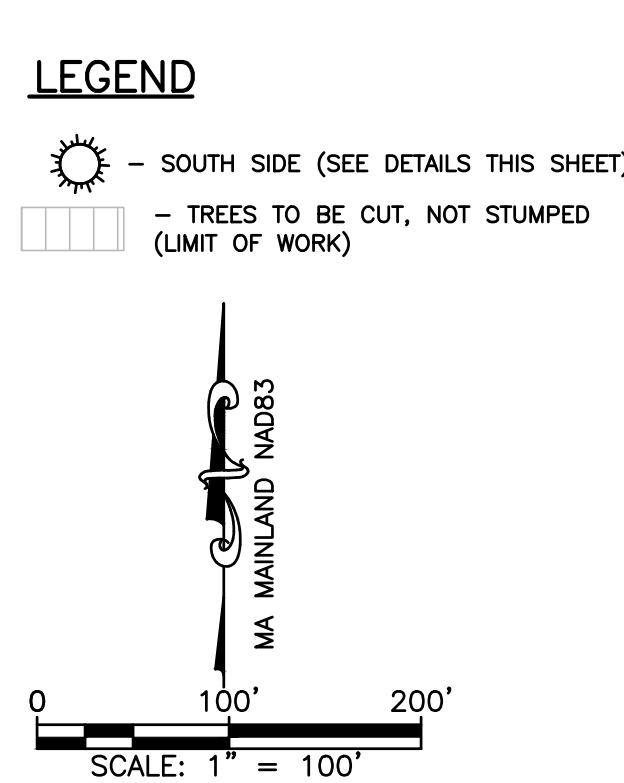
NOTE: EACH SOUTH SIDE SYMBOL ON THE PLAN TO THE LEFT REPRESENTS (1) ZONE A PLANTS, (2) ZONE B PLANTS, (3) ZONE C PLANT AND (2) ZONE D PLANT.

- NOTES:**
- WOOD CHIPS SHALL NOT BE PLACED WITHIN 25' OF THE WETLAND BOUNDARIES.
  - OTHER THAN SHOWN ON THE PLANS, NO GRADE CHANGES SHALL BE MADE AND NO CHANGE IN DRAINAGE PATTERNS.



**SOUTH SIDE TREE CLEARING DETAIL**  
NOT TO SCALE

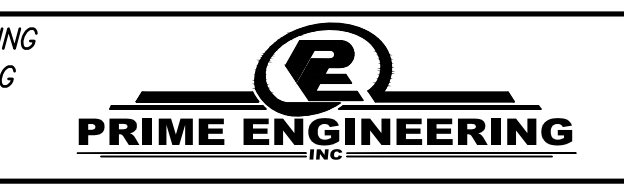
**NORTH SIDE TREE CLEARING DETAIL**  
NOT TO SCALE



**ENHANCEMENT PLANTING SCHEDULE**

SPECIES	MATURE HEIGHT	WETLAND STATUS	MICROCLIMATE	ENHANCEMENT PROPERTIES	QUANTITY
<b>ZONE A (MAX. HEIGHT 12')</b>					
AMERICAN HAZELNUT	3'-9'	FACU	SHADED AREAS/DRIER SITES	WILDLIFE FOOD SOURCE	26
SWEET FERN	3'-5'	UPL	DRIER SITES	FIXES NITROGEN/WILL SPREAD BY ROOT SUCKERS	26
BEARBERRY	2'	UPL	DRIER SITES	BERRIES FOR WILDLIFE	26
BAYBERRY	6'-10'	FAC	DRIER SITES	BERRIES PROVIDE FOOD IN WINTER TO MANY SONGBIRDS/FIXES NITROGEN	26
BEACH PLUM	10'-12'	UPL	DRIER SITES	FRUIT FOR WILDLIFE	26
LOWBUSH BLUEBERRY	1'-2'	FACU	DRIER SITES	FRUIT FOR WILDLIFE	26
HIGHBUSH BLUEBERRY	8'-12'	FACW	WETTER SITES	FRUIT FOR WILDLIFE	26
<b>ZONE B (MAX. HEIGHT 20')</b>					
SHADBLow SERVICEBERRY	14'-18'	FAC	ADAPTABLE	BERRIES FOR BIRDS	30
SWEET PEPPERBUSH	10'-14'	FAC+	ADAPTABLE	FOOD AND COVER FOR BIRDS	30
GREY DOGWOOD	12'-15'	FAC	DRIER SITES	BERRIES FOR WILDLIFE/NESTING AND COVER FOR BIRDS	30
WITCH HAZEL	15'-20'	FAC-	SHADED AREAS/DRIER SITES	SEEDS, BUDS AND TWIGS FOOD FOR WILDLIFE	30
STAGHORN SUMAC	12'-20'	UPL	DRIER SITES	FRUIT FOR BIRDS	30
NANNYBERRY	16-20'	FAC	DRIER SITES	FRUIT FOR BIRDS	30
<b>ZONE C (MAX. HEIGHT 25')</b>					
ALTERNATE LEAVED DOGWOOD	20'-25'	UPL	DRIER SITES	SUMMER BERRIES FOR WILDLIFE	60
<b>ZONE D (MAX. HEIGHT 30')</b>					
AMERICAN HORNBEAM	25'-30'	FACU	SHADED AREAS	SHADE/COVER	15
EASTERN RED CEDAR	30'-50'	FACU	DRIER SITES	PROTECTIVE NESTING COVER AND FOOD FOR BIRDS	15
BLACK CHERRY	20'-40'	FACU	DRIER SITES	BERRIES FOR VAST ARRAY OF ANIMALS	15
MOUNTAIN ASH	10'-30'	FACU	ADAPTABLE	SHADE/COVER	15

DRAWING TITLE <b>BUFFER ENHANCEMENT PLAN</b>		SCALE: 1"=100'
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SHEET NO. **4**  
PROJECT NO. 2779-01-01