

SOLAR ARRAY SEEDING SCHEDULE AND PROTOCOLS

FEARING HILL ROAD SOLAR PROJECT

WAREHAM, MASSACHUSETTS

JUNE 14, 2022

For seeding of the array fields, a modified “Northeast Solar Pollinator 4' Mix” by Ernst Conservation Seeds, will be utilized. The modification involves swapping out the Sideoats Gamma for a Canada Wildrye. Per discussions with Ernst, this particular mix will be suitable in the 6-inches of topsoil over sandy loam as experienced at the site (per test pits and soil boring data).

The modified Northeast Solar Pollinator 4' Mix is to be seeded at 15 lbs/acre using a broadcast method or 10 lbs/acre using a seed drill with 30 lbs/acre of the cover crop. Ernst recommends a cover crop of either grain oats *Avena sativa* (1 Jan to 31 Jul) or grain rye *Secale cereale* (1 Aug to 31 Dec) be used for initial site stabilization. The cover crop will be planted at the same time as the pollinator mix.

Ernst recommends a standard spring or fall dormant seeding period (November-June). If seeding between June-October is required due to the construction schedule, Ernst recommends increasing the seeding rate by 20% (to 18 lbs/acre for the pollinator and 36lbs/acre for the cover crop) to allow for seedling die off due to summer heat (if seeding in July) or frost (if seeding August-October).

Modified Northeast Solar Pollinator 4' Mix

Botanical Name	Common Name	Percentage of Mix	Plant Type	Color	Height	Flower Season	Sun Requirement
<i>Elymus canadensis</i>	Canada Wildrye	35.00	Perennial Grass	Green	30-45"	June-October	Shade
<i>Schizachyrium scoparium</i> , 'Camper'	Little Bluestem, 'Camper'	35.00	Perennial Grass	White, Green, Brown	18-24"	June-December	Full Sun to Partial Shade
<i>Dichanthelium sphaerocarpon</i>	Roundseed Panicgrass	10.00	Perennial Grass	Green	6-20"	March-October	Full Sun
<i>Asclepias tuberosa</i>	Butterfly Milkweed	4.00	Perennial Flower	Orange, Yellow	18-24"	May-September	Full Sun
<i>Chamaecrista fasciculata</i> , PA ecotype	Patridge Pea, PA Ecotype	4.00	Flower	Yellow	12-36"	June-October	Full Sun to Partial Shade
<i>Coreopsis lanceolata</i>	Lanceleaf Coreopsis	4.00	Perennial Flower	Yellow	12-30"	April-June	Full Sun to Partial Shade
<i>Rudbeckia hirta</i>	Black-eyed Susan	4.00	Flower	Yellow	18-36"	June-October	Full Sun to Partial Sun
<i>Pycnanthemum tenuifolium</i>	Narrowleaf Mountain mint	0.90	Perennial Flower	White	20-30"	June-September	Full Sun to Partial Shade
<i>Aster oblongifolius</i> , PA ecotype	Aromatic Aster, PA Ecotype	0.70	Perennial Flower	Purple, Violet	12-36"	September-November	Full Sun to Partial Shade
<i>Aster prenanthoides</i> , PA ecotype	Zigzag Aster, PA Ecotype	0.50	Perennial Flower	White	12-36"	August-October	Full Sun to Partial Shade
<i>Penstemon digitalis</i>	Tall White Beardtongue	0.50	Perennial Flower	White	18-36"	May-July	Full Sun to Partial Shade
<i>Tradescantia ohiensis</i> , PA Ecotype	Ohio Spiderwort, PA Ecotype	0.50	Perennial Flower	Red, Blue	24-36"	May-August	Partial Shade
<i>Zizia aurea</i>	Golden Alexanders	0.50	Perennial Flower	Yellow	12-36"	April-August	Full Sun to Partial Shade
<i>Oenothera fruticosa</i> var. <i>fruticosa</i>	Sundrops	0.30	Perennial Flower	Yellow	12-24"	June-August	Full Sun to Partial Shade
<i>Solidago nemoralis</i> , PA Ecotype	Gray Goldenrod, PA Ecotype	0.10	Perennial Flower	Yellow	18-24"	June-October	Full Sun to Full Shade