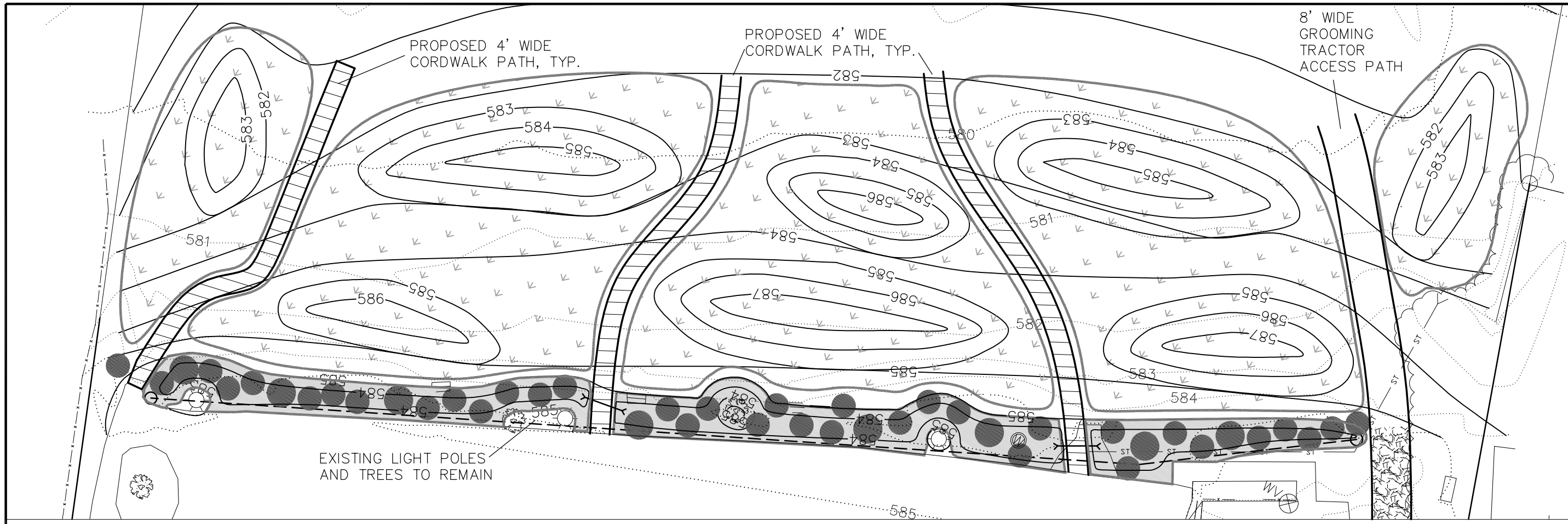

Common Name	Species Name	Plant Height	Color	Bloom Time	Spacing
Zone 1 - Rain Garden					
White Doll's Eyes	*Actaea pachypoda*	1' - 2'	white	May-June	1' - 2'
Nodding Wild Onion	*Allium cernuum*	1' - 2'	pink/white	July-Aug	0.5' - 1'
Canada Anemone	*Anemone canadensis*	1' - 2'	white	May-July	1'
Thimbleweed	*Anemone cylindrica*	1' - 3'	white	June-July	1'
Virginia anenome	*Anemone virginiana*	2' - 3'	white	June-Aug	1'
Columbine	*Aquilegia canadensis*	1' - 2'	pink/red	July-Sept	1'
Beach Silver Mound	*Artemisia campestris*	1' - 3'	white	Aug-Oct	1'
Swamp Milkweed	*Asclepias incarnata*	2' - 8'	magenta	July-Aug	1'
Common Milkweed	*Asclepias syriaca*	2' - 4'	lavender	June-Aug	1'
Butterfly Milkweed	*Asclepias tuberosa*	1' - 3'	orange	June-Aug	1'
Whorled Milkweed	*Asclepias verticillata*	1' - 3'	white	July-Sept	1'
Smooth Aster	*Aster laevis*	1' - 4'	blue	Aug-Oct	1'
Calico Aster	*Aster lateriflorus*	2' - 3'	white	Aug-Oct	1'
Big Leaf Aster	*Aster macrophyllus*	1' - 2'	white	Aug-Oct	1'
New England Aster	*Aster novae-angliae*	3' - 6'	purple/blue	Aug-Oct	1' - 2'
Sky Blue Aster	*Aster oolentangiensis*	1' - 3'	blue	Aug-Oct	1'
Silky Aster	*Aster sericeus*	1' - 2'	purple/blue	Sept-Oct	1'
Canada Milkvetch	*Astragalus canadensis*	1' - 4'	yellow	June-Aug	1'
Bellflower	*Campanula americana*	3' - 4'	blue	July-Sept	0.5'
Harebell	*Campanula rotundifolia*	1' - 2'	blue	June-Sept	0.5'
Turtlehead	*Chelone glabra*	1' - 3'	cream	July-Sept	1'
Pink turtlehead	*Chelone obliqua*	2' - 4'	pink	July-Sept	1'
Lanceleaf Coreopsis	*Coreopsis lanceolata*	1' - 2'	yellow	May-Aug	1'
Showy Tick-Trefoil	*Desmodium canadense*	3'- 4'	purple/blue	July-Aug	1'
Dutchman's Britches	*Dicentra cucullaria*	0.5' - 1'	white	April-May	1'
Fireweed	*Epilobium angustifolium*	1' - 3'	pink/red	July-Sept	1'
Wild Geranium	*Geranium maculatum*	1' - 2'	lavender	April-June	0.5'
Ox-Eye Sunflower	*Heliopsis helianthoides*	2' - 5'	yellow	June-Sept	1'
Rough Blazingstar	*Liatris aspera*	2' - 3'	purple/blue	Aug-Sept	1'
Cardinal Flower	*Lobelia cardinalis*	2' - 4'	scarlet	July-Sept	0.5' - 1'
Great Blue Lobelia	*Lobelia siphilitica*	1' - 4'	blue	Aug-Sept	1'
Solomon's Plume	*Maianthemum racemosa*	1' - 3'	white	April-June	1' - 2'
Starry Solomon's Plume	*Maianthemum stellata*	1' - 2'	white	May-June	2'
Bishop's Cap	*Mitella diphylla*	1' - 2'	white	Aug-Oct	1'
Bergamot	*Monarda fistulosa*	2' - 4'	lavender	July-Sept	1'
Dotted Mint	*Monarda punctuata*	1' - 3'	purple/blue	July-Sept	1'
Evening Primrose	*Oenothera biennis*	3' - 6'	yellow	June-Sept	1'
Solomon's Seal	*Polygonatum biflorum*	1' - 3'	cream	May-June	1' - 2'
Prairie Cinquefoil	*Potentilla arguta*	1' - 4'	yellow	June-Sept	1'
Yellow Coneflower	*Ratibida pinnata*	3' - 6'	yellow	July-Sept	1'
Black-Eyed Susan	*Rudbeckia hirta*	1' - 3'	yellow	July-Oct	1'
Green Headed Coneflower	*Rudbeckia laciniata*	5' - 8'	yellow	July-Oct	1'
Early Meadowrue	*Thalictrum dioicum*	2' - 4'	white	May-June	2'
Hoary Vervain	*Verbena stricta*	2' - 3'	purple/blue	June-Sept	1'
Big Bluestem	*Andropogon gerardi*	3' - 8'	bronze/red	Aug-Oct	1' - 2'
Blue-Joint Grass	*Calamagrostis canadensis*	2' - 5'	green	May-July	1' - 2'
Bebb's Sedge	*Carex bebbii*	1' - 3'	green	June-Aug	1' - 2'
Bristly Sedge	*Carex comosa*	1' - 3'	yellow-green	May-July	1' - 2'
Pennsylvania Sedge	*Carex pensylvanica*	0.5' - 1'	green	April-May	1' - 2'
Savanna Sedge	*Carex rosea*	0.5' - 1'	green	April-May	1' - 2'
Canada Wild Rye	*Elymus canadensis*	3' - 5'	straw	July-Aug	1'
Bottlebrush Grass	*Elymus hystrix*	2' - 3'	green	June-July	1'
Virginia Wild Rye	*Elymus virginicus*	4' - 5'	straw	July-Aug	1'
Wood Reed	*Luzula multiflora*	0.5' - 1'	purple/green	May-July	1'
Little Bluestem	*Schizachyrium scoparium*	2' - 3'	crimson-red	Aug-Oct	1'
Indiangrass	*Sorghastrum nutans*	5' - 7'	gold	Aug-Sept	1' - 2'
Zone 2 - Trees & Shrubs					
Paper Birch	*Betula papyrifera*	50' - 75'	green/yellow	April	---
Red-Osier Dogwood	*Cornus sericea*	6' - 12'	white	May-June	---
Old-Field Juniper	*Juniperus communis var. depressa*	3' - 6'	blue-black	April	---
Zone 3 - Dune Grass					
Marram Grass	*Ammophila brevigulata*	1' - 3'	yellow	July-Sept	0.5' -1'

NOTES

1. TOPSOIL – ALL TOPSOIL SHALL MEET THE BIOFILTER SOIL MIX SPECIFICATIONS OUTLINED ON SHEET 1 (GRADING PLAN). A MINIMUM OF 6 INCHES OF TOPSOIL SHOULD COVER ALL PLANTING AREAS, EXCEPT IN BEACH NOURISHMENT AREAS.

2. MULCHING – WOOD CHIP OR BARK MULCH SHALL BE PLACED OVER ZONES 1 AND 2 TO A DEPTH OF 2" TO 4" IMMEDIATELY AFTER PLANTING.

3. A FIBER BLANKET SHALL BE PLACED OVER ZONE 3 AFTER FINAL GRADING IS COMPLETED. THE FIBER BLANKET SHALL BE A NORTH AMERICAN GREEN S150BN OR APPROVED EQUIVALENT. LANDSCAPE CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS FOR THE INSTALLATION AND STAKING OF ALL FIBER BLANKETS. ALL FIBER BLANKETS AND STAKES SHALL BE BIODEGRADABLE PER PROJECT SPECIFICATIONS.

4. ZONE 1 PLANTING – SPECIES PLANTED IN ZONE 1 SHOULD BE A MIXTURE OF SPECIES CHOSEN FROM THE LIST OF APPROPRIATE SPECIES PROVIDED ON THE PLAN.

5. ZONE 2 PLANTING – ALL TREES AND SHRUBS SHALL BE PLANTED ACCORDING TO AMERICAN NURSERYMAN'S STANDARDS. WHEN PLANTING IN AREAS WITH A FIBER BLANKET, AN "X" PATTERN SHALL BE CUT IN THE BLANKET AND REPLACED UNDER THE TREE OR SHRUB.

6. ZONE 3 PLANTING – LANDSCAPE CONTRACTOR SHALL FOLLOW SUPPLIERS RECOMMENDATIONS FOR PLANTING THE DUNE GRASS. MARRAM GRASS SHALL BE PLANTED AS LIVE PLANTS OR BARE ROOT STOCK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE FIBER BLANKET DURING THE PLANTING PROCESS.

7. TIMING OF PLANTING – THE PLANTING OF ALL TREES AND SHRUBS SHALL BE COMPLETED PRIOR TO THE PLANTING OF ZONES 1 AND 3. PLANTING SCHEDULES MUST BE COORDINATED WITH THE SUPPLIERS OF VARIOUS PLANT MATERIALS.

8. FENCING – PLASTIC TYPE TEMPORARY FENCING SHALL BE PLACED ALONG MARGINS OF ALL CORD WALKS AND ZONES 1 AND 3 AREAS AFTER PLANTING.

9. WARRANTY AND MAINTENANCE – ALL PLANTINGS SHALL BE WATERED AND MAINTAINED DURING THE 12 MONTH WARRANTY PERIOD. MULCH AND FIBER BLANKET STAKING SHALL ALSO BE MAINTAINED AS DESIGNATED DURING THE 12 MONTH WARRANTY PERIOD. TEMPORARY FENCING MUST BE MAINTAINED FOR TWO GROWING SEASONS AFTER PLANTING. SEE MAINTENANCE PLAN FOR SPECIFICATIONS.

10. PLANT HEIGHT CONSIDERATIONS – PLANTS ARE EXPECTED TO GROW TO HEIGHTS AT THE LOWER END OF THE RANGES PROVIDED ON THE PLANS, DUE TO THE HARSHNESS OF THE LOCAL ENVIRONMENT. THE HEIGHT OF GRASSES GIVEN MAY INCLUDE THE SEED HEADS, WHICH MAY BE TALLER THAN THE FOLIAGE. ALL SHRUB SPECIES MAY BE PRUNED TO CONTROL HEIGHT IN THE FUTURE.

11. EXISTING TREES MAY BE KEPT OR REPLACED WITH B. PAPYRIFERA. EXISTING SHRUBS SHOULD BE REMOVED.

GRAPHIC SCALE
0 10 20
(IN FEET)
1 inch = 10 ft.

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NO.	DATE	DESCRIPTION	BY
2	5-1-2008	UPDATED PER SWCD COMMENTS	SMW
1	3-17-08	ISSUED FOR SWCD REVIEW	SCJ

VILLAGE OF EPHRAIM
BEACH STORM WATER MANAGEMENT
EPHRAIM VILLAGE BEACH
9883 WATER ST, EPHRAIM, WISCONSIN

SCALE
HOR. 1"=10'
VER.
DATE 1-23-08
JOB 17326-E-EPHRAIM
BY SCJ
CK PGP
SHEET 3 OF 3