CITY OF FORT COLLINS

NATIVE SEED MIX NOTES

- PREPARE SOIL AS NECESSARY AND APPROPRIATE FOR NATIVE SEED MIX SPECIES THROUGH AERATION AND ADDITION OF AMENDMENTS, THEN SEED IN TWO DIRECTIONS TO DISTRIBUTE SEED EVENLY OVER ENTIRE AREA. DRILL SEED ALL INDICATED AREAS AS SOON AS POSSIBLE AFTER COMPLETION OF GRADING OPERATIONS.
- 2. IF CHANGES ARE TO BE MADE TO SEED MIX BASED ON SITE CONDITIONS THEN APPROVAL MUST BE PROVIDED BY CITY ENVIRONMENTAL PLANNER.
- 3. APPROPRIATE NATIVE SEEDING EQUIPMENT WILL BE USED (STANDARD TURF SEEDING EQUIPMENT OR AGRICULTURE EQUIPMENT SHALL NOT BE USED).
- 4. DRILL SEED APPLICATION RECOMMENDED PER SPECIFIED APPLICATION RATE TO NO MORE THAN ½ INCH DEPTH (OR APPROPRIATE DEPTH FOR SELECTED SPECIES). FOR BROADCAST SEEDING INSTEAD OF DRILL SEEDING METHOD DOUBLE SPECIFIED APPLICATION RATE. REFER TO NATIVE SEED MIX TABLE FOR SPECIES, PERCENTAGES AND APPLICATION RATES.
- 5. PREPARE A WEED MANAGEMENT PLAN TO ENSURE THAT WEEDS ARE PROPERLY MANAGED BEFORE, DURING AND AFTER SEEDING ACTIVITIES.
- 6. AFTER SEEDING THE AREA SHALL BE COVERED WITH CRIMPED STRAW, JUTE MESH, OR OTHER APPROPRIATE METHODS.
- 7. WHERE NEEDED, TEMPORARY IRRIGATION SHOULD BE PROVIDED UNTIL SEED IS ESTABLISHED. IF IRRIGATION IS USED, THE IRRIGATION SYSTEM FOR SEEDED AREAS SHALL BE FULLY OPERATIONAL AT THE TIME OF SEEDING AND SHALL ENSURE 100% HEAD-TO-HEAD COVERAGE OVER ALL SEEDED AREAS. ALL METHODS AND REQUIREMENTS IN THE APPROVED IRRIGATION PLAN SHALL BE FOLLOWED.
- 8. CONTRACTOR SHALL MONITOR SEEDED AREA FOR PROPER IRRIGATION, EROSION CONTROL, GERMINATION AND RESEEDING AS NEEDED TO ESTABLISH COVER.
- 9. THE APPROVED SEED MIX AREA IS INTENDED TO BE MAINTAINED IN A NATURAL LIKE LANDSCAPE AESTHETIC. IF AND WHEN MOWING OCCURS IN NATIVE GRASS SEED MIX AREAS DO NOT MOW LOWER THAN 6 TO 8 INCHES IN HEIGHT TO AVOID INHIBITING NATIVE PLANT GROWTH.
- 10. NATIVE SEED AREA WILL BE CONSIDERED ESTABLISHED WHEN SEVENTY PERCENT VEGETATIVE COVER IS REACHED WITH NO LARGER THAN ONE FOOT SQUARE BARE SPOTS AND/OR UNTIL DEEMED ESTABLISHED BY CITY PLANNING SERVICES AND EROSION CONTROL.
- 11. THE DEVELOPER AND/OR LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ADEQUATE SEEDLING COVERAGE AND GROWTH AT THE TIME OF FINAL STABILIZATION, AS DEFINED BY STATE AND LOCAL AGENCIES. IF FINAL STABILIZATION IS NOT ACHIEVED TO THE SATISFACTION OF THE AGENCY, THE DEVELOPER AND/OR LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL CORRECTIVE MEASURES TO SATISFY FINAL VEGETATIVE REQUIREMENTS FOR CLOSEOUT.

	DETENTION BASIN MIX		
	Common Name	Scientific Name	lbs/PLS/ Acre
Wildflowers	Plains coreopsis	Coreopsis tinctoria	0.17
	White prairie clover	Dalea candida	0.65
	Purple Prairie Clover	Dalea purpurea	0.81
/ild	Indian blanketflower	Gaillardia aristata	1.85
📂	Mexican hat	Ratibida columnifera	0.2
	Indian Ricegrass	Achnatherum hymenoides	1.13
	Sideoats Grama	Bouteloua curtipendula	1.15
	Buffalograss	Bouteloua dactyloides	3.27
	Blue Grama	Bouteloua gracilis	0.25
es	Inland Saltgrass	Distichlis stricta	0.35
Grasses	Bottlebrush squirreltail	Elymus elymoides	0.95
Ö	Streambank wheatgrass	Elymus lanceolatus ssp. lanceolatus	1.36
	Prairie Junegrass	Koeleria macrantha	0.08
	Western Wheatgrass	Pascopyrum smithii	1.61
	Little Bluestem	Schizachyrium scoparium	0.7
		Total for Detention Basin Mix	14.54 lbs/PLS/Acre
	ACCEPTABLE SUBSTITUTES FOR WILDFLOWERS		
	Blue flax (Linum lewisii) 0.83 lbs/PLS/Acre		
ites	Black-eyed Susan (<i>Rudbeckia hirta</i>) 0.14 lbs/PLS/Acre		
 titu	Prairie aster (Machaeranthera tanacetifolia) 0.49 lbs/PLS/Acre		
Substitutes	ACCEPTABLE SUBSTITUTES FOR GRASSES		
\sim	Salt and pepper grass (Deschampsia caespitosa) 0.07 lbs/PLS/Acre		
	Six weeks fescue (Vulpia octoflora) 0.19 lbs/PLS/Acre		
	Slender wheatgrass (Elymus trachycaulus) 1.36 lbs/PLS/Acre		
Requirements	*Contractor is responsible for locating and purchasing all species listed in mix. If a species can't be located, contractor must replace each missing species with the acceptable substitutions (listed above). Contractor is responsible for providing seed tags to appropriate City staff. This mix is based on 70 seeds/ square foot and is only calculated for one acre. This mix is based on the contractor using a drill seed application. Mix should be doubled if hand broadcasted. Contractor is responsible for calculating the appropriate seed amounts to purchase. Please note that the pounds per acre are in PLS (Pure Live Seed) and must be ordered that way. All materials furnished shall be free of Colorado State noxious weeds as defined in Article III, Section 21-40 of the Code of the City of Fort Collins.		

	UPLAND MIX		
	Common Name	Scientific Name	lbs/PLS/Acre
Wildflowers	Plains coreopsis	Coreopsis tinctoria	0.17
	Purple Prairie Clover	Dalea purpurea	0.81
	Indian blanketflowe	Gaillardia aristata	1.85
	Rocky. Mtn. penstemon	Penstemon strictus	0.35
>	Mexican hat	Ratibida columnifera	0.2
	Indian ricegrass	Achnatherum hymenoides	1.13
	Sideoats grama	Bouteloua curtipendula	1.15
	Buffalograss	Bouteloua dactyloides	3.27
	Blue grama	Bouteloua gracilis	0.25
sses	Bottlebrush squirreltail	Elymus elymoides	0.95
Grasses	Prairie Junegrass	Koeleria macrantha	0.08
	Green needlegrass	Nassella viridula	1.01
	Switchgrass	Panicum virgatum	0.71
	Western Wheat	Pascopyrum smithii	1.61
	Sand dropseed	Sporobolus cryptandrus	0.04
		Total for Upland Mix	13.58 lbs/PLS/Acre
	ACCEPTABLE SUBSTITUTES FOR WILDFLOWERS		
	Fringed sage (Artemisia frigida) 0.03 lbs/PLS/Acre		
es	Blue flax (<i>Linum lewisii</i>) 0.41 lbs/PLS/Acre		
itut	Prairie aster (Machaeranthera tanace	etifolia) 0.25 lbs/PLS/Acre	
Substitutes	ACCEPTABLE SUBSTITUTES FOR GRASSES		
Sı	Canada wildrye (Elymus canadensis) 1.59 lbs/PLS/Acre		
	Inland saltgrass (Distichlis stricta) 0.35 lbs/PLS/Acre		
	Mountain muhly (Muhlenbergia montana) 0.11 lbs/PLS/Acre		
Requirements	*Contractor is responsible for locating and purchasing all species listed in mix. If a species can't be located, contractor must replace each missing species with the acceptable substitutions (listed above). Contractor is responsible for providing seed tags to appropriate City staff. This mix is based on 70 seeds/ square foot and is only calculated for one acre. This mix is based on the contractor using a drill seed application. Mix should be doubled if hand broadcasted. Contractor is responsible for calculating the appropriate seed amounts to purchase. Please note that the pounds per acre are in PLS (Pure Live Seed) and must be ordered that way. All materials furnished shall be free of Colorado State noxious weeds as defined in Article III, Section 21-40 of the Code of the City of Fort Collins.		

	ALKALINE MIX		
	Common Name	Scientific Name	lbs/PLS/ Acre
Wildflowers	Fringed sage	Artemisia frigida	0.05
	Purple Prairie Clover	Dalea purpurea	0.81
	Annual sunflower	Helianthus annuus	4.13
	Blue flax	Linum lewisii	0.83
	Mexican hat	Ratibida columnifera	0.2
	Sideoats Grama	Bouteloua curtipendula	1.15
	Buffalograss	Bouteloua dactyloides	3.27
	Blue Grama	Bouteloua gracilis	0.25
	Inland Saltgrass	Distichlis stricta	0.35
sses	Bottlebrush squirreltail	Elymus elymoides	0.95
Grasses	Slender Wheatgrass	Elymus trachycaulus	1.36
	Giant mannagrass	Glyceria grandis	0.14
	Switchgrass	Panicum virgatum	0.71
	Western Wheatgrass	Pascopyrum smithii	1.61
	Alkali Sacaton	Sporobolus airoides	0.11
		Total for Alkaline Mix	15.92 lbs/PLS/Acre
	ACCEPTABLE SUBSTITUTES FOR WILDFLOWERS		
	Indian blanketflower (Gaillardia aristata) 1.85 lbs/PLS/Acre		
tes	Prairie aster (Machaeranthera tanacetifolia) 0.49 lbs/PLS/Acre		
- itul	Scarlet globemallow (Sphaeralcea coccinea) 0.61 lbs/PLS/Acre		
Substitutes	ACCEPTABLE SUBSTITUTES FOR GRASSES		
S	Canada wildrye (Elymus canadensis) 1.60 lbs/PLS/Acre		
	Nuttall's alkaligrass (<i>Puccinellia airoides</i>) 0.15 lbs/PLS/Acre		
	Prairie cordgrass (Spartina pectinata) 1.00 lbs/PLS/Acre		
Requirements	*Contractor is responsible for locating and purchasing all species listed in mix. If a species can't be located, contractor must replace each missing species with the acceptable substitutions (listed above). Contractor is responsible for providing seed tags to appropriate City staff. This mix is based on 70 seeds/ square foot and is only calculated for one acre. This mix is based on the contractor using a drill seed application. Mix should be doubled if hand broadcasted. Contractor is responsible for calculating the appropriate seed amounts to purchase. Please note that the pounds per acre are in PLS (Pure Live Seed) and must be ordered that way. All materials furnished shall be free of Colorado State noxious weeds as defined in Article III, Section 21-40 of the Code of the City of Fort Collins.		

	MESIC MIX		
	Common Name	Scientific Name	lbs/PLS/ Acre
Wildflowers	Smooth aster	Aster laevis	0.19
	White prairie clover	Dalea candida	0.65
	Purple Prairie Clover	Dalea purpurea	0.81
	Indian blanketflower	Gaillardia aristata	1.85
	Black-eyed Susan	Rudbeckia hirta	0.14
	Big Bluestem	Andropogon gerardii	1.3
	Salt and pepper grass	Deschampsia caespitosa	0.07
	Inland Saltgrass	Distichlis stricta	0.35
		Elymus lanceolatus ssp.	
es	Streambank wheatgrass	lanceolatus	1.36
Grasses	Switchgrass	Panicum virgatum	0.71
5	Western Wheatgrass	Pascopyrum smithii	1.61
	Fowl bluegrass	Poa palustris	0.18
	Little Bluestem	Schizachyrium scoparium	0.7
	Yellow Indiangrass	Sorghastrum nutans	1.38
	Prairie Cordgrass	Spartina pectinata	1
		Total for Mesic Mix	12.31 lbs/PLS/Acre
	ACCEPTABLE SUBSTITUTION	NS FOR WILDFLOWERS	
	Mexican hat (Ratibida columnifera) 0.10 lbs/PLS/Acre		
es	Marsh sunflower (Helianthus nuttallii) 0.56 lbs/PLS/Acre		
Substitutes	Beebalm (Monarda fistulosa var. menthifolia) 0.09 lbs/PLS/Acre		
ıbst	ACCEPTABLE SUBSTITUTIONS FOR GRASSES		
Su	American sloughgrass (Beckmannia syzigachne) 0.20 lbs/PLS/Acre		
	Alkali sacaton (Sporobolus airoides) 0.11 lbs/PLS/Acre		
	Prairie sandreed (Calamovilfa longifolia) 0.67 lbs/PLS/Acre		
Requirements	*Contractor is responsible for locating and purchasing all species listed in mix. If a species can't be located, contractor must replace each missing species with the acceptable substitutions (listed above). Contractor is responsible for providing seed tags to appropriate City staff. This mix is based on 70 seeds/ square foot and is only calculated for one acre. This mix is based on the contractor using a drill seed application. Mix should be doubled if hand broadcasted. Contractor is responsible for calculating the appropriate seed amounts to purchase. Please note that the pounds per acre are in PLS (Pure Live Seed) and must be ordered that way. All materials furnished shall be free of Colorado State noxious weeds as defined in Article III, Section 21-40 of the Code of the City of Fort Collins.		

	WETLAND MIX		
	Common Name	Scientific Name	lbs/PLS/ Acre
Wildflowers	Marsh sunflower	Helianthus nuttallii	1.51
		Polygonum pensylvanicum	
	Pennsylvania smartweed	(Persicaria pensylvanica)	3.13
	Goldenglow daisy	Rudbeckia ampla	1.36
	Blue verbena	Verbena hastata	0.2
	American sloughgrass	Beckmannia syzigachne	0.39
es	Inland Saltgrass	Distichlis stricta	0.67
Grasses	Giant mannagrass	Glyceria grandis	0.27
5	Fowl bluegrass	Poa palustris	0.35
	Prairie Cordgrass	Spartina pectinata	1.9
	Spikerush	Eleocharis palustris	0.42
Wet Species	Arctic rush	Juncus balticus (J. arcticus)	0.03
bec	Hardstem bulrush	Schoenoplectus acutus	0.65
et S		Scirpus maritimus	
×	Alkali bulrush	(Bolboschoenus maritimus)	1.14
	Common three-square	Schoenoplectus pungens	0.65
		Total for Wetland Mix	12.68 lbs/PLS/Acre
	ACCEPTABLE SUBSTITUTES FOR WILDFLOWERS		
	Black-eyed Susan (Rudbeckia hirta) 0.19 lbs/PLS/Acre		
	Beebalm (Monarda fistulosa var. menthifolia) 0.23 lbs/PLS/Acre		
tes	If one or more species is unavailable, double the quantity of an available wildflower (In mix above).		
itu	ACCEPTABLE SUBSTITUTES FOR GRASSES		
Substitutes	Salt and Pepper grass (Deschampsia caespitosa) 0.14 lbs/PLS/Acre		
S	Switchgrass (Panicum virgatum) 1.35 lbs/PLS/Acre		
	Alkali sacaton (Sporobolus airoides) 0.20 lbs/PLS/Acre		
	ACCEPTABLE SUBSTITUTES FOR WET SPECIES		
	If one or more species is unavailable, double the quantity of an available wet species (In mix above).		
Requirements	*Contractor is responsible for locating and purchasing all species listed in mix. If a species can't be located, contractor must repleach missing species with the acceptable substitutions (listed above). Contractor is responsible for providing seed tags to appropricity staff. This mix is based on 100 seeds/ square foot and is only calculated for one acre. This mix is based on the contractor using broadcast seed application. Contractor is responsible for calculating the appropriate seed amounts to purchase. Please note that the pounds per acre are in PLS (Pure Live Seed) and must be ordered that way. All materials furnished shall be free of Colorado Stanoxious weeds as defined in Article III, Section 21-40 of the Code of the City of Fort Collins.		