



SEEDING PERIODS	
COOL SEASON February 15 to April 20 and August 15 to Sept. 30	WARM SEASON November 15 to June 1
SPECIES	SPECIES
Bluegrasses	Bluestems
Bromegrasses	Buffalograss
Canada Wildrye	Eastern Gamagrass
Fescues	Gramas
Ryegrasses	Indiangrass
Wheatgrasses	Lovegrasses
Reed Canarygrass	Switchgrass
	Wildflower Mixes
When 'Cool Season' species are mixed with 'Warm Season' species, in areas of 0.4 hectares or more, the mixture shall be seeded during the 'Warm Season'. In areas of less than 0.4 hectares, the mixture of 'Cool Season' and 'Warm Season' species may be seeded during the 'Warm or Cool Seasons'.	
SODDING PERIODS	
March 1 to April 15 and September 1 to November 15	

GENERAL: The entire disturbed area, excepting the paved or surfaced areas, steep rocky slopes and areas of undisturbed native sod or other desirable vegetation shall be fertilized (limed when required), seeded, and mulched. Soil preparation shall conform to the Standard Specifications.

Temporary seeding shall be done during any time of the year that the soil can be cultivated. After the temporary seeding has been completed on the entire project, a permanent seeding shall be done by another project during the normal seeding season.

The Contractor will be required to finish areas of excavation, borrow and embankment in accordance with the specifications. Areas that require installation or construction of temporary water pollution control items will be finished in reasonable close conformity to the alignment, grade and cross section shown on the plans or as established by the Engineer.

FERTILIZER: A ratio and application rate that equals or exceeds the required minimum rate per hectare of N, P<sub>2</sub>O<sub>5</sub>, K<sub>2</sub>O listed in Summary of Quantities will be acceptable.

MULCHING: Mulch shall be spread uniformly over all disturbed areas and punched in the soil, unless otherwise noted on the plans. The rate of application per hectare, thickness in place, for the various mulching materials as follows:

3,900 - 5,000 Kilograms per Hectare = 40mm loose depth spread uniformly over hectare.

Agricultural products, such as native prairie hay, used for mulching and erosion control practices, excluding wood based mulch, shall meet the North American Weed Free Forage Standards. Refer to Special Provision Subsection 2108.04 'Mulching'.

Other vegetative mulches (acceptable only with the Engineer's concurrence).

The above rate is a guide. It will be at the discretion of the Engineer to determine what rate is sufficient for adequate protection of newly seeded areas.

The amount of mulch in the bid quantities is estimated. The total mulch required shall be determined in the field. The bid item for mulching shall be paid for by one of the following ways: A) Plan quantity as shown on Summary of Quantities, Seeding Sheet or Water Pollution Control Sheet, B) Slope measurement as measured in field, or C) Drill measurement less 5% as measured at the time of seeding.

NATIVE WILDFLOWER MIX		
PLS RATE	NAME	QTY (kg)
0.2	Black Eyed Susan	
0.1	Illinois Bundleflower	
0.2	Maximilian Sunflower	
0.1	Purple Prairieclover	
0.1	Showy Partridgepea	
0.1	Upright Coneflower	
0.8 kg	Total (kg)	

NATIVE WILDFLOWER MIX - TALL		
PLS RATE	NAME	QTY (kg)
0.2	Butterfly Milkweed	
0.2	Clasping Coneflower	
0.2	Grayhead Coneflower	
0.2	Lance-leaf Coreopsis	
0.1	New England Aster	
0.2	Pale Purple Coneflower	
0.2	Plains Coreopsis	
0.2	Purple Coneflower	
0.4	Purple Prairie Clover	
0.1	Roundhead Lespedeza	
0.1	Thickspike Gayfeather	
0.1	Upright Coneflower	
0.2	Wild Bergamont	
0.1	Showy Primrose	
0.1	Lemon Mint	
2.6 kg	Total (kg)	

Package and deliver the wildflower seed separately from the grass seed mix. Package and deliver the Tall Drop Seed separately from the grass seed and the wildflower mix. Place the grass seed (except Tall Drop Seed) in the large seed box and drill (cover) seed 3.2 mm - 6.4mm. Place the wildflower seed in a separate seed box and drill (cover) seed 1.6 mm maximum. Place the Tall Drop Seed in a separate (third) seed box and place the seed (using the seed drill) on the soil surface. OPTION: Broadcast Tall Drop Seed on the soil surface.

SUMMARY OF SEEDING QUANTITIES								
P.L.S. KG/HECTARE		HECTARES			BID ITEM	QUANTITY	UNIT	
SHLDR	OTHER	SHLDR	OTHER					
	195		.082		Western Wheatgrass	14.625	Kg.	
	195		.082		Smooth Brome	14.625	Kg.	
	195		.082		Kentucky 31 Fescue	14.625	Kg.	
	195		.082		Buffalo Grass	14.625	Kg.	
	195		.082		Bermuda Grass	14.625	Kg.	
	100		.082		Fertilizer (15-30-15)	7.5	Kg.	
TOTAL SEEDING						Lump Sum	L.S.	

SHLDR = Shoulder Turf Mix: Includes a 9 meter wide strip along the stabilized shoulder on each side of each traveled way, plus all median areas less than 18 meters wide.

OTHER = All other turf areas except Shoulder, Guardrail, and Native areas usually include the Native Wildflower Mix.

GRDRL = Guardrail Mix: This mix does not need mowing. Plant it below the guardrail between the edge of pavement and the edge of the 1:10 slope, and on steep slopes or non-mowable slopes as shown on the drawings.

NATIVE = The Native Mix is a 40% wildflower, 60% native grass mix. See this sheet for the locations of this high wildflower content seed mix.

NOTE: Projects of less than 0.4 hectares be bid as "Seeding" by the lump sum. All disturbed areas shall be seeded, fertilized and mulched at the listed rate per hectare. The hectares are estimated.

NO.	DATE	REVISIONS	BY	APP'D
4				
3	12/14/05	Revised Standard	CDS	SHS
2	6/16/05	Revised Standard	SHS	SHS
1	3/01/04	Revised Standard	FCM	SHS

**KANSAS DEPARTMENT OF TRANSPORTATION**

**PERMANENT SEEDING  
SUMMARY OF SEEDING QUANTITIES**

**LA850-SI**

F.H.W.A. APPROVAL	1/04/2006	APP'D	Scott H. Shields
DESIGNED	MRM	DETAILED	MRM
DESIGN CK.	SHS	DETAIL CK.	SHS
QUANTITIES	TRACED	MRM	
QUAN. CK.	TRACE CK.	SHS	

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Drawn By : examples  
 DGN File : G:\CIVIL\98169\05693\06\Nab850.si.dgn  
 Plotted : 7/27/2006  
 View = PLOT 2