FHWA REGION NO.	STATE	PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER	TOTAL SHEETS
7	KANSAS	TE-0254-01	2005	20	21
FED. AID NO.					

PLANTING NOTES

GENERAL

1. PRIOR TO BEGINNING ANY WORK ON THE SITE, THE CONTRACTOR SHALL CONTACT THE OFFICE OF THE OWNER AND THE ARCHITECT/LANDSCAPE ARCHITECT FOR SPECIFIC INSTRUCTIONS RELEVANT TO THE SEQUENCING OF WORK.
2. LANDSCAPE CONTRACTOR SHALL PROVIDE LABOR, MATERIALS AND SERVICE NECESSARY TO FURNISH AND INSTALL MATERIALS AS SPECIFIED HEREIN AND AS SHOWN ON THE PLANS.
3. NO MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT LANDSCAPE ARCHITECT'S WRITTEN APPROVAL. ALTERNATE MATERIALS OF SIMILAR SIZE AND CHARACTER MAY BE CONSIDERED IF SPECIFIED PLANT MATERIALS CANNOT BE OBTAINED. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REVISE PLANT LIST AS DEEMED NECESSARY.
4. QUANTITIES OF MATERIALS SHOWN ON THE PLANTING PLAN TAKE PRECEDENCE OVER QUANTITIES SHOWN ON THE PLANT MATERIAL SCHEDULE. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES ON THE PLANTING PLAN.
5. REPORT DISCREPANCIES IN THE PLANTING PLAN TO THE LANDSCAPE ARCHITECT, PRIOR TO PURCHASING MATERIALS OR STARTING CONSTRUCTION.
6. REVIEW THE LANDSCAPE SPECIFICATION SECTION LOCATED IN THE PROJECT MANUAL FOR ADDITIONAL PROJECT INSTRUCTIONS AND RESPONSIBILITIES.

SITE PREPARATION AND EARTHWORK

7. CONTRACTOR SHALL LOCATE UTILITIES BEFORE COMMENCING WORK. LOCATE EXACT UTILITY LOCATIONS BY CONTACTING KANSAS ONE-CALL CENTER AT (316) 687-2470. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO UTILITIES RESULTING FROM LANDSCAPE OPERATIONS. ANY UTILITIES SHOWN ON PLAN ARE FOR REFERENCE ONLY AND MAY OR MAY NOT DEPICT THE ACTUAL LOCATION OF SERVICES.
8. TOPSOIL SHALL BE A FRIABLE LOAM WITH GOOD STRUCTURE. SOLUBLE SALTS SHALL NOT EXCEED 500ppm AND ORGANIC MATTER SHALL BE NO LESS THAN 1.5% BY WEIGHT. pH SHALL RANGE BETWEEN 6.0 AND 7.5.
9. LANDSCAPE CONTRACTOR SHALL HAVE TOPSOIL TESTED BY A CERTIFIED TESTING LABORATORY AND OBTAIN RECOMMENDATIONS FOR SOIL AMENDMENT TYPE(S) AND QUANTITIES. SUBMIT A COPY OF THIS REPORT TO THE LANDSCAPE ARCHITECT FOR THEIR RECORDS. RECOMMENDATIONS SHALL BE SPECIFIC TO THE TOPSOIL TO BE USED AND THE PLANT MATERIALS SPECIFIED ON THE DRAWINGS. A SAMPLE OF THE TOPSOIL TO BE USED SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
10. TOPSOIL:
    LANDSCAPE CONTRACTOR TO VERIFY THE EXISTIENCE OF A MINIMUM OF 4" OF VIABLE TOPSOIL IN AREAS THAT HAVE HAD NO STRIPPING OPERATIONS AND THAT SHALL BE SEEDED. IF LESS THAN 4" EXIST, THE LANDSCAPE CONTRACTOR SHALL ADD TOPSOIL TO THESE AREAS.

    IN AREAS THAT HAVE BEEN STRIPED FOR GRADING AND CONSTRUCTION PURPOSES, NO LESS THAN 4" OF TOPSOIL SHALL BE SPREAD EVENLY OVER THOSE AREAS PRIOR TO SEEDING OPERATIONS.

    IN AREAS THAT ARE TO BE PLANTED WITH SHRUBS, NO LESS THAN 12" OF TOPSOIL SHALL BE SPREAD.

PLANTING PREPARATION

11. CULTIVATE PLANTING BEDS TO A DEPTH OF 8". TILL AMENDMENTS INTO THE PLANTING BED AT THE RATIOS SPECIFIED BY A CERTIFIED TOPSOIL ANALYSIS.
12. BACKFILL: FOR PLANT EXCAVATIONS TO BE CLEAN NATURAL TOPSOIL MIXED WITH AMENDMENTS AT THE RATIOS SPECIFIED BY A CERTIFIED TOPSOIL ANALYSIS.
13. REFER TO SPECIAL PROVISION ITEM NUMBER SIX FOR REQUIREMENTS ASSOCIATED WITH NATIVE GRASS AND FLOWER PLANTING PREPARATION.

PLANTING MATERIALS

14. PLANT MATERIAL SHALL BE WELL-FORMED AND DEVELOPED IN GOOD CONDITION, HEALTHY AND DISEASE-FREE, AND BE TYPICAL OF THE SPECIES. PLANTS SHALL COMPLY IN ALL APPLICABLE RESPECTS WITH ACCEPTABLE STANDARDS AS SET FORTH IN THE AMERICAN ASSOCIATION OF NURSERYMAN'S "AMERICAN STANDARD OF NURSERY STOCK." HEIGHT OF PLANT MATERIALS SHALL BE MEASURED FROM EXISTING SOIL LINE AT TOP OF ROOTBALL TO TOP OF CROWN.
15. PLANT MATERIALS SHALL BE PROTECTED FROM THE DRYING ACTION OF THE SUN AND WIND AFTER BEING DUG, WHILE BEING TRANSPORTED, AND WHILE AWAITING PLANTING. BALLS OF PLANTS WHICH CANNOT BE PLANTED IMMEDIATELY SHALL BE PROTECTED FROM DRYING ACTION BY COVERING THEM WITH MOIST MULCH. PERIODICALLY, APPLY WATER TO MULCH-COVERED BALLS TO KEEP MOIST. IF PLANTING SHOULD OCCUR DURING GROWING SEASON, APPLY ANTI-DESSICANT TO LEAVES BEFORE TRANSPORT TO REDUCE LIKELIHOOD OF WINDBURN. REAPPLY ANTI-DESSICANT AFTER PLANTING TO REDUCE TRANSPIRATION.
16. PLANTS DESIGNATED CONTAINER GROWN SHALL HAVE BEEN GROWN IN POTS, CANS OR BOXES FOR A MINIMUM OF SIX MONTHS AND A MAXIMUM OF TWO YEARS. THESE PLANTS SHALL BE REMOVED FROM CONTAINERS BEFORE PLANTING. PLANTS THAT APPEAR ROOT-BOUND SHALL BE REJECTED.
17. PLANT LOCATIONS ARE APPROXIMATE, ADJUST AS NECESSARY TO AVOID CONFLICTS.
18. USE TRIANGULAR SPACING IN PLANTING ALL NATIVE FORBS AND PERENNIALS.
19. REFER TO SPECIFICATION SECTION 02900 FOR SPECIFIC REQUIREMENTS ASSOCIATED WITH NATIVE GRASS AND FLOWER SEED MATERIAL AND SEEDING PROCEDURE.
20. PLANT SUBSTITUTIONS WILL ONLY BE ALLOWED UNDER THE FOLLOWING CONDITIONS: LANDSCAPE CONTRACTOR SHALL SUBMIT A WRITTEN SUBSTITUTION REQUEST TO THE LANDSCAPE ARCHITECT STATING WHAT PLANTS TO BE SUBSTITUTED AND THE REQUESTED SUBSTITUTION PLANT ALONG WITH EXPLANATION OF SUBSTITUTION REQUEST. NO SUBSTITUTION SHALL CONSTITUTE AN INCREASE IN COST FROM THE ORIGINAL CONTRACT AMOUNT. ANY PLANT SUBSTITUTIONS NOT APPROVED SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR AT THE TIME OF INSPECTION.
21. PLACE 4" OF MULCH IN ALL TREE SAUCERS AND AROUND INDIVIDUAL SHRUB PLANTINGS LOCATED IN THE PLANTING BEDS SHOWN ON THE PLANS.
22. PLANTING BEDS RECEIVING MULCH ARE TO BE FREE OF WEEDS AND GRASS. TREAT BEDS WITH A PRE-EMERGENT HERBICIDE PRIOR TO PLANTING AND MULCH PLACEMENT. A SECOND APPLICATION SHOULD BE APPLIED IF WEEDS EMERGE PRIOR TO COMPLETION OF WORK. APPLY IN ACCORDANCE WITH STANDARD TRADE PRACTICE.

RELATED ITEMS

23. ALL BEDS ARE TO HAVE A SHOVEL CUT EDGE PER DETAIL TO PROVIDE SEPARATION FROM SEEDED AREAS.
24. MULCH:
    CYPRESS MULCH: USE CYPRESS MULCH FOR ALL TREE SAUCERS AND INDIVIDUAL SHRUB PLANTING IN PRAIRIE GRASS AREAS.

MAINTENANCE AND CLEAN-UP

25. THE CONTRACTOR SHALL PROVIDE ALL WATER, WATERING DEVICES AND LABOR NEEDED TO IRRIGATE PLANT MATERIALS FOR THE GREATER OF 90 DAYS OR UNTIL PROVISIONAL ACCEPTANCE OF THE PROJECT. THE CONTRACTOR SHALL SUPPLY ENOUGH WATER TO MAINTAIN THE PLANTS' HEALTHY CONDITION THROUGHOUT THE MAINTENANCE PERIOD.
26. REMOVE ALL RUBBISH, EQUIPMENT AND MATERIAL AND LEAVE THE AREA IN A NEAT, CLEAN CONDITION EACH DAY. MAINTAIN PAVED AREAS UTILIZED FOR HAULING EQUIPMENT AND MATERIALS BY OTHER TRADES IN A CLEAN AND UNOBSTRUCTED CONDITION AT ALL TIMES.
27. REMOVE SOIL OR DIRT THAT ACCUMULATED DURING OR AS A RESULT OF PLANTING OPERATIONS EACH DAY.
28. FERTILIZE ALL PLANTS WITH 10-20-10 COMMERCIAL SLOW-RELEASE FERTILIZER AS DIRECTED BY INSTRUCTIONS ON FERTILIZER. NO FERTILIZERS TO BE APPLIED TO NATIVE GRASS SEEDED AREAS.
29. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE LAWN AND LANDSCAPE FOR A PERIOD OF NINETY (90) DAYS OR PROVISIONAL ACCEPTANCE, WHICH EVER IS GREATER. THIS INCLUDES BUT IS NOT LIMITED TO MOWING AND TRIMMING THE LAWN AT 7-10 DAY INTERVALS, DRESSING OF MULCH BEDS, APPLICATION OF HERBICIDES TO CONTROL WEED GROWTH, PATCHING, & RESEEDING ERODED AREAS.
30. LIMIT AMOUNT OF PRUNING TO A MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES. PRUNE IN SUCH A MANNER AS NOT TO CHANGE NATURAL HABIT OR SHAPE OF PLANT. MAKE CUTS FLUSH, LEAVING NO STUBS. CENTRAL LEADERS SHALL NOT BE REMOVED.
31. LANDSCAPE CONTRACTOR TO REMOVE TREE STAKES, GUYS, AND ALL DEAD WOOD ON TREES AND SHRUBS ONE YEAR AFTER PROVISIONAL ACCEPTANCE.

PRAIRIE GRASS SEEDING NOTES:

1. NATIVE GRASS SEED MIXTURE SHALL BE FRESH, CLEAN NEW CROP SEED. FURNISH TO LANDSCAPE ARCHITECT DEALERS GUARANTEED STATEMENT OF COMPOSITION OF MIXTURE AND PERCENTAGE OF PURITY AND GERMINATION OF EACH VARIETY.
2. LANDSCAPE CONTRACTOR TO DRILL PRAIRIE GRASS SEED WITH A DRILL SPECIFICALLY SUITED FOR SEEDING NATIVE PRAIRIE GRASSES. PLANT GRASS SEED NO DEEPER THAN 1/2" BELOW SURFACE.
3. PROTECT SEEDED AREAS AGAINST EROSION BY SPREADING WEED FREE STRAW MULCH TO FORM A CONTINUOUS BLANKET 1 1/2" LOOSE DEPTH AND CRIMP INTO SOIL BY SUITABLE METHODS.
4. PROTECT SWALE AND AREAS OF CONCENTRATED STORM WATER FLOW WITH EROSION CONTROL BLANKET. SECURE BLANKET OVER SEEDBED USING MANUFACTURER'S RECOMMENDATIONS. EROSION CONTROL BLANKET SHALL BE 100% STRAW MATRIX MATERIAL WITH DEGRADABLE NET.
5. SEED NATIVE GRASS DURING THE SEED DATES LISTED BELOW. IF SEEDING CANNOT OCCUR DURING THESE DATES, TEMPORARY COVER OF ANNUAL RYE SHALL BE SEEDED IN THOSE AREAS AT A RATE OF 2LBS./1000 SF UNTIL THE FOLLOWING SEASON. IF SEEDING OCCURS DURING SUMMER MONTHS AFTER MAY 15TH AND PRIOR TO SEPTEMBER 15TH, ADDITIONAL WATERING MAY BE NECESSARY FOR ESTABLISHMENT. TEMPORARY SEEDING SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF PROJECT SEEDING. COSTS OF DELAYED PERMANENT SEEDING SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT SEEDING.

    OPTIMUM SEED DATES: APRIL 1-APRIL 20
    ACCEPTABLE SEED DATES: MARCH1-MAY 15
6. SEEDING PROCESS: BEGINNING AS EARLY IN MARCH AS POSSIBLE, TILL ENTIRE AREA TO BE SEEDED TO DESTROY EXISTING VEGETATION AND LEAVE A FIRM, FRIABLE SEEDBED. TILL AREA IN THREE SUCCESSIVE SHALLOW TILLINGS, APPROXIMATELY TWO WEEKS APART TO REMOVE ALL DEAD PLANT MATERIALS AND NEW GROWTH WEEDS. DO NOT TILL DURING WET WEATHER WHEN RUTTING MAY BE A PROBLEM.
7. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WATERING AND ESTABLISHMENT PRACTICES REQUIRED FOR THE PRAIRIE GRASS AREAS. THIS TIME PERIOD SHALL BE NO LESS THAN 90 DAYS AND SHALL CONTINUE UNTIL 90% GERMINATION OF THE PRAIRIE GRASS HAS OCCURRED. OTHER RESPONSIBILITIES SHALL INCLUDE MAINTENANCE OF ERODED AREAS, RE-SEEDING, AND WEED CONTROL PRACTICES AS NECESSARY UNTIL FINAL ACCEPTANCE.

BUFFALO GRASS SEED & SOD NOTES:

1. BUFFALO SEED TYPE SHALL BE LOCALLY AVAILABLE CODY VARIETY. SEED AT 3 LBS./1000 SF FOR NEW LAWN AREAS AND 1-1.5 LBS./1000 SF FOR DISTURBED AREAS. SEED ENTIRE AREA SHOWN ON PLAN TO BE BUFFALO SEED. REESTABLISH DISTURBED AREAS ALONG HILLSIDE AT THE RATE SPECIFIED.
2. LANDSCAPE CONTRACTOR TO FOLLOW THE SAME SEEDING GUIDELINES AS USED FOR THE NATIVE GRASS SEEDING FOR BUFFALO GRASS SEEDING.
3. LANDSCAPE CONTRACTOR SHALL INSTALL BUFFALO SOD AS SHOWN ON THE LANDSCAPE PLANS. SOD ONLY AFTER ALL PLANTINGS AND IRRIGATION HAVE BEEN COMPLETED. HEAL SOD IN SO TRANSITION BETWEEN SODDED AND SEEDED AREAS ARE FLUSH.
4. SEED BUFFALO GRASS DURING THE SEED DATES LISTED BELOW. IF SEEDING CANNOT OCCUR DURING THESE DATES, TEMPORARY COVER OF ANNUAL RYE SHALL BE SEEDED IN THOSE AREAS AT A RATE OF 2LBS./1000 SF UNTIL THE FOLLOWING SEASON. IF SEEDING OCCURS DURING SUMMER MONTHS AFTER MAY 15TH AND PRIOR TO SEPTEMBER 15TH, ADDITIONAL WATERING MAY BE NECESSARY FOR ESTABLISHMENT. TEMPORARY SEEDING SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF PROJECT SEEDING. COSTS OF DELAYED PERMANENT SEEDING SHALL BE CONSIDERED SUBSIDIARY TO THE PROJECT SEEDING.

    OPTIMUM SEED DATES: APRIL 1-APRIL 20
    ACCEPTABLE SEED DATES: MARCH1-MAY 15

PLANT MATERIAL SCHEDULE

Quantity	Scientific Name	Common Name	Size (Min.)	Height (Min)	Width (Min)	Comments
	DECIDUOUS TREES					
6	Crataegus crus-galli 'Inermis'	COCKSPUR HAWTHORN	2" CALIPER	12'	6'	
12	Celtis occidentalis	COMMON HACKBERRY	3" CALIPER	12'	6'	
9	Cercis canadensis	EASTERN REDBUD	2" CALIPER	8'	6'	
7	Prunus viginiana	CHOKECHERRY	2" CALIPER	10'	6'	
12	Gymnocladus dioica	KENTUCKY COFFEETREE	3" CALIPER	12'	6'	
6	Malus 'Prairiefire'	PRAIRIEFIRE CRABAPPLE	2" CALIPER	8'	6'	
7	Malus 'Snowdrift'	SNOWDRIFT CRABAPPLE	2" CALIPER	8'	6'	
6	Quercus macrocarpa	BUR OAK	3" CALIPER	12'	6'	
4	Quercus muelenbergii	CHINQUAPIN OAK	3" CALIPER	12'	6'	
7	Quercus rubra	RED OAK	3" CALIPER	12'	6'	
	SHRUBS					
18	Amorpha canadense	LEADPLANT AMORPHA	1-GAL	12"	12"	
13	Cornus sericea 'Isanti'	REDTWIG DOGWOOD	2-GAL	16"	14"	
26	Prunus americana	AMERICAN PLUM	2-GAL	16"	14"	
28	Rosa suffulta	PRAIRIE ROSE	2-GAL	12"	12"	
6	Rhus aromatica	AROMATIC SUMAC	5-GAL	30"	24"	
40	Rhus glabra	SMOOTH SUMAC	2-GAL	14"	14"	
11	Sambucus canadensis	ELDERBERRY	2-GAL	14"	14"	
14	Symphoricarpos orbiculatus	INDIAN CURRENT CORALBERRY	2-GAL	12"	12"	
	FORBS/PERENNIALS/GRASSES					
91	Achillea millefolium 'Summer Pastels'	YARROW	4" Pot	-	-	18" o.c.
50	Asclepias tuberosa	BUTTERFLY MILKWEED	4" Pot	-	-	15" o.c.
34	Baptisia australis	WILD INDIGO	1-Gal.	-	-	-
18	Chamaecrista fasiculata	PARTRIDGE PEA	1-Gal.	-	-	-
152	Coreopsis grandiflora 'Sunray'	COREOPSIS	4" Pot	-	-	15" o.c.
155	Echinacea purpurea 'Black Sampson'	CONEFLOWER	4" Pot	-	-	12" o.c.
87	Liatris spicata	GAYFEATHER	4" Pot	-	-	18" o.c.
3	Lobelia cardinalis 'Compliment Scarlet'	CARDINAL FLOWER	4" Pot	-	-	-
25	Monarda didyma 'Violet Queen'	BEE BALM	1-Gal.	-	-	-
3	Opuntia sp.	PRICKLY PEAR	1-Gal.	-	-	-
53	Perovskia atriplicifolia	RUSSIAN SAGE	1-Gal.	-	-	
28	Panicum virgatum	SWITCH GRASS	2-Gal.	-	-	
18	Pennisetum alopecuriodes 'Hamelin'	DWF FOUNTAIN GRASS	1-Gal.	-	-	
126	Oenethera Macrocarpa	MISSOURI PRIMROSE	4" Pot	-	-	15" o.c.
82	Rudbeckia fulgida	BLACK-EYED SUSAN	4" Pot	-	-	18" o.c.

NATIVE GRASS AND WILDFLOWER SEED

PLS RATE/ACRE	VARIETY	SEEDING NOTES	PLS TOTAL QTY.
7 PLS#	EL RENO SIDEOATS GRAMA	SPREAD EVENLY	28 LBS.
4 PLS#	ALDOUS LITTLE BLUESTEM	SPREAD EVENLY	16 LBS.
5 PLS#	COVINGTON BLUE GRAMA	SPREAD EVENLY	20 LBS.
10 PLS#	CODY BUFFALO GRASS	SPREAD EVENLY	40 LBS.
8 BULK#	WILDFLOWER MIX	SPREAD EVENLY	32 LBS.
WILDFLOWER MIX	BLACK EYED SUSAN BUTTERFLY MILKWEED BLANKET FLOWER KANSAS GAYFEATHER GREY HEADED PENSTEMON EVENING PRIMROSE BEE BALM	LANCELEAF COREOPSIS PURPLE CONEFLOWER PURPLE PRAIRIE CLOVER PLAINS COREOPSIS WHITE YARROW PURPLE POPPY MALLOW SHOWY PARTRIDGE PEA	

TOTAL QUANTITY IS BASED ON PURE LIVE SEED (PLS) OR BULK AS INDICATED. FINAL BULK SEED QUANTITY MAY BE GREATER THAN PLS AMOUNTS SHOWN BASED ON GERMINATION RATE AND PURITY. SUBMIT FINAL BULK SEED QUANTITIES, GERMINATION RATE, PURE LIVE SEED, AND PURITY FOR REVIEW PRIOR TO PURCHASE OF SEED FOR APPROVAL FROM LANDSCAPE ARCHITECT.

PRINTS ISSUED	
DATE	ITEM
1/10/05	FIELD CHECK SET
6/13/05	OFFICE CHECK SET
9/29/05	REVISED OFFICE CHECK
11/29/05	FINAL PLANS
1/22/07	FOR CONSTRUCTION

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DRAWN	CHECKED
JAB	JAB

K-96 TRAILHEAD LANDSCAPE PROJECT
WICHITA, KANSAS
GROVE PARK

PROJECT NUMBER 044150

PLANTING NOTES & SCHEDULES

SHEET TITLE
SHEET NUMBER
LP3.1
OF 4 SHEETS