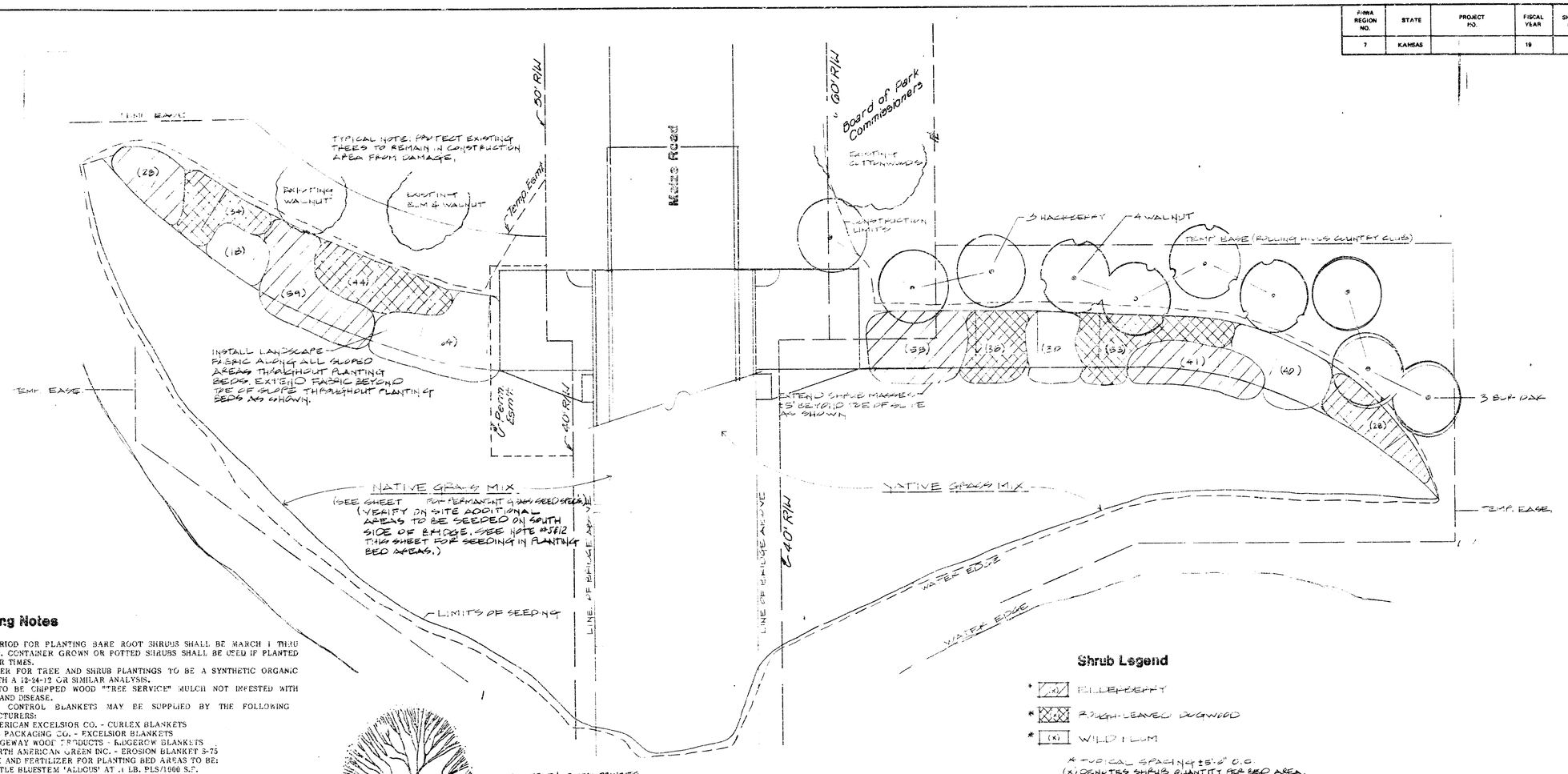
FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS		19		

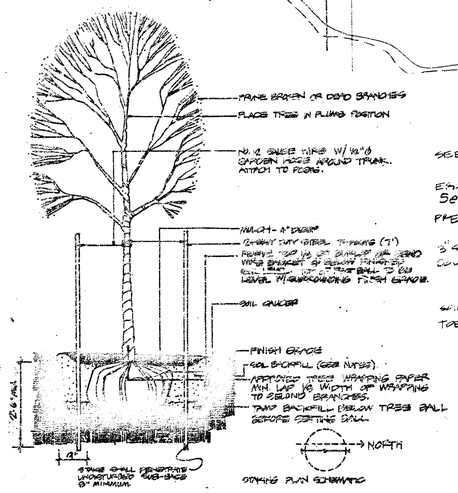


Planting Notes

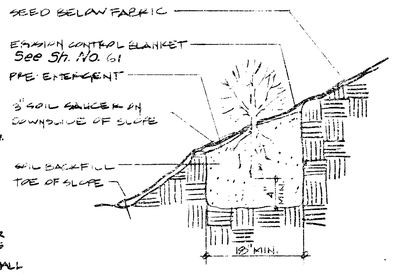
1. TIME PERIOD FOR PLANTING BARE ROOT SHRUBS SHALL BE MARCH 1 THRU APRIL 30. CONTAINER GROWN OR POTTED SHRUBS SHALL BE USED IF PLANTED AT OTHER TIMES.
2. FERTILIZER FOR TREE AND SHRUB PLANTINGS TO BE A SYNTHETIC ORGANIC TYPE WITH A 12-24-12 OR SIMILAR ANALYSIS.
3. MULCH TO BE CHIPPED WOOD "TREE SERVICE" MULCH NOT INFESTED WITH INSECTS AND DISEASE.
4. EROSION CONTROL BLANKETS MAY BE SUPPLIED BY THE FOLLOWING MANUFACTURERS:
   - AMERICAN EXCELSIOR CO. - CURLEX BLANKETS
   - PPS PACKAGING CO. - EXCELSIOR BLANKETS
   - RIDGEWAY WOOD PRODUCTS - RIDGEROW BLANKETS
   - NORTH AMERICAN GREEN INC. - EROSION BLANKET S-75
5. SEED MIX AND FERTILIZER FOR PLANTING BED AREAS TO BE:
   - LITTLE BLUESTEM 'ALDOUS' AT .1 LB. PLS/1000 S.F.
   - SIDEOATS GRAMA 'TRAILWAY' AT .2 LB. PLS/1000 S.F.
   - FERTILIZER (16-20-0) AT 8 LBS./1000 S.F.

   INSTALL SEED PRIOR TO INSTALLATION OF EROSION CONTROL BLANKET. SEE SHEET 30A FOR ADDITIONAL NOTES.
6. APPLY APPROVED PRE-EMERGENT CHEMICAL TO SOIL SURFACE OF EXCAVATED AREA FOR EACH SHRUB TO INHIBIT GERMINATION OF GRASS SEED. ‡
7. PLANTS AND MATERIALS SHALL BE APPROVED BY THE ENGINEER. APPROVAL OF SUBSTITUTIONS SHALL BE DETERMINED BY THE ENGINEER.
8. CONTRACTOR SHALL FLAG THE OUTLINE OF EACH SHRUB BED AREA AND TREE LOCATIONS FOR THE ENGINEER'S APPROVAL BEFORE PLANTING. SPACE FLAGS FOR BED AREAS SUCH THAT THE BED CONFIGURATION CAN BE EASILY DISCERNED FOR INSPECTION. USE FLUORESCENT ORANGE WIRE STAKE FLAGS OR OTHER APPROVED COLOR FOR MARKING. REMOVE FLAGS AFTER COMPLETION OF PLANTING OPERATIONS IN BEDS.
9. SOIL BACKFILL TO BE MADE OF EXCAVATED SOIL FROM PLANTING HOLE WORKED TO A FRIABLE CONSISTENCY BEFORE BACKFILLING. INCORPORATE FERTILIZER INTO THE SOIL SURFACE OF THE EXCAVATED AREA IMMEDIATELY AFTER PLANTING. APPLY AT THE RATE OF 1/2 LB./SHRUB OR 2 LBS./TREE.
10. WATER PLANTINGS TO SETTLE BACKFILL AND FERTILIZER. RESHAPE SOIL SAUCERS AND LEVEL SOIL SURFACE AS SHOWN IN DETAILS.
11. WHEN BARE ROOT SHRUBS ARE PROVIDED THE ESTABLISHMENT PERIOD FOR TREES AND SHRUBS SHALL BE EXTENDED TO 30 (THIRTY) DAYS.
12. SHRUBS SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE BID PER EACH FOR THE VARIOUS TYPES AND SIZES SHOWN. SAID PRICE SHALL INCLUDE ALL EXCAVATION AND BACKFILL, PLANT MATERIALS, FERTILIZER, ‡* EROSION CONTROL BLANKET, SHRUB BED AREA SEED AND FERTILIZER AND ALL ASSOCIATED LABOR, TOOLS, WATER AND INCIDENTALS REQUIRED TO ESTABLISH PLANTS AND RECEIVE ACCEPTANCE.
13. TREES SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE BID PER EACH FOR THE VARIOUS TYPES AND SIZES SHOWN. SAID PRICE SHALL INCLUDE ALL EXCAVATION AND BACKFILL, PLANT MATERIALS, FERTILIZER, STAKING, MULCHING, WRAPPING AND ALL ASSOCIATED LABOR, TOOLS, WATER AND INCIDENTALS REQUIRED TO ESTABLISH PLANTS AND RECEIVE ACCEPTANCE.

* Subsidiary to planting trees and shrubs
‡ Pre-emergent



Typical Tree Planting Detail
NO SCALE



Typical Shrub Planting Detail
NO SCALE

Shrub Legend

* ⟨xV⟩ ELDERBERRY
* ⟨XXX⟩ ROUGH-LEAVED DOGWOOD
* ⟨X⟩ WILD PLUM

* TYPICAL SPACING ±5'-6" O.C
(X) DENOTES SHRUB QUANTITY PER BED AREA.

Summary of Planting Quantities

Total	COMMON/BOTANICAL NAME	SIZE/REQ.
	TREES	
3	BUR OAK QUERCUS MACROCARPA	2-2½ CAL. B&B - 26 DIA. BALL MIN.
4	WALNUT JUGLANS NIGRA	2-2½ CAL. B&B - 26 DIA. BALL MIN.
3	HACKBERRY CELTIS OCCIDENTALIS	2-2½ CAL. B&B - 26 DIA. BALL MIN.
	SHRUBS	
183	ELDERBERRY SAMBUCUS CANADENSIS	15-18" B.R.
177	ROUGH-LEAVED DOGWOOD CORNUS DRUMMONDII	15-18" B.R.
152	WILD PLUM PRUNUS AMERICANA	15-18" B.R.

NOTE: CONTAINER GROWN SHRUBS MAY BE PROVIDED AT CONTRACTOR'S OPTION. SEE PLANTING NOTES.

NORTH

PLAN SCALE
0 10 20 40 FEET

Landscape Architects Planners
JONES PROFESSIONAL ASSOCIATION
1415 East Second Street • Wichita, Kansas 67214 • (316) 262-4525

REGISTERED LANDSCAPE ARCHITECT MARGARET R. JONES 20 STATE OF KANSAS

Designed: DF
Drawn: DF
Checked: JJ
Date: 9-20-90
Revisions: 12-11-90 DF, 1-11-91 DF, 1-24-91 DF
Project Number: 8962

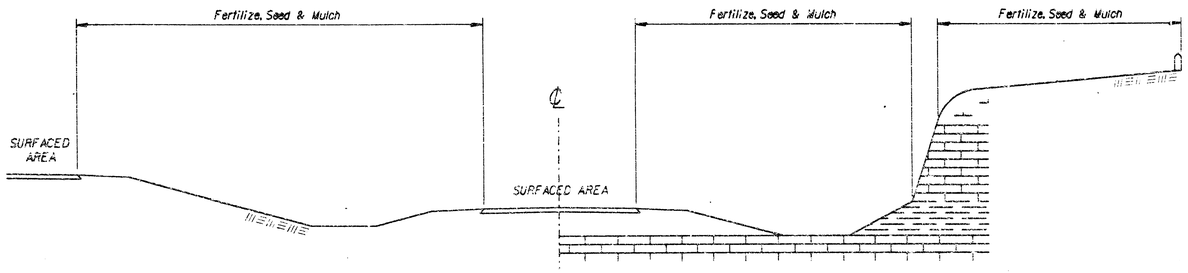
PLANTING PLAN

MAIZE ROAD BRIDGE OVER COWSKIN CREEK

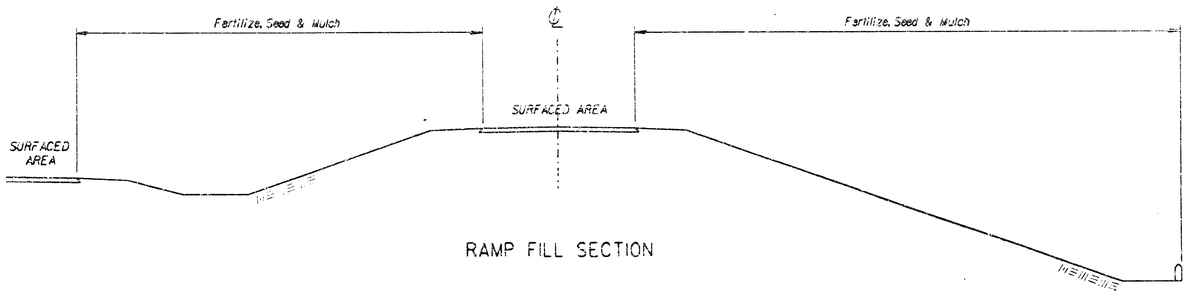
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by | Checked by
Drawn by | Date | Job No. 89 247

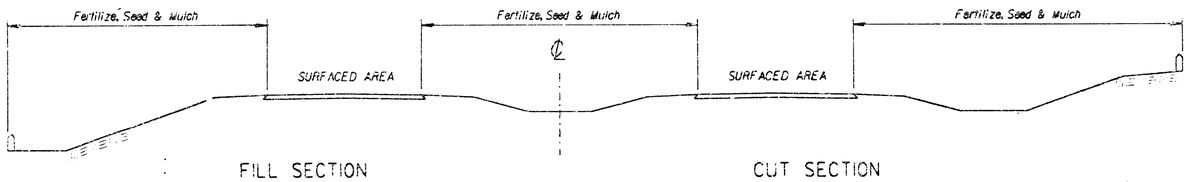
FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87-U-1254-01 and 87-U-1360-01	1991		



RAMP CUT SECTION



RAMP FILL SECTION



FILL SECTION CUT SECTION

TYPICAL SECTION -- DUAL PAVEMENT

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 except as noted below.

All borrow areas shown on the plans are to be fertilized, seeded, and mulched. However, operation in borrow areas where crops are growing may be omitted when requested by the owner.

It shall not be required to till the area to bare ground prior to permanent seeding. If temporary cover has provided stable slopes with no erosion, seed the permanent grasses into the existing cover. If there has been erosion that requires repair prior to seeding, then it may be necessary to regrade the area, resulting in bare ground.

FERTILIZER: A ratio and application rate that equals or exceeds the required minimum rate per acre of N, P_2O_5, K_2O listed in Summary of Seeding 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 acre, thickness in place, for the various mulching materials are as follows:

Prairie Hay Mulching	1¾ - 2¼	Tons per Acre	=	1½" loose depth spread uniformly over acre.
Bromegrass Mulching	1¾ - 2¼	Tons per Acre	=	1½" loose depth spread uniformly over acre.
~~Wheat or Oats Straw Mulching~~	~~1½ - 2~~	~~Tons per Acre~~	~~=~~	~~3" loose depth spread uniformly over acre.~~
Wood Chips Mulching	4 - 5	Tons per Acre	=	1-2" loose depth spread uniformly over acre.
Wood Fiber Mulching	¾ -	Tons per Acre	=	spread uniformly over acre.

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

The above rates are 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.

SUMMARY OF SEEDING QUANTITIES

SEEDING PERIOD: Feb. 15 to April 20 and Aug. 15 to Sept. 30 | SODDING PERIOD: March 1 to April 15 and Sept. 1 to Nov. 15

	RATE / ACRE	* ACRES #	* ACRES ##	BID ITEM	QUANTITY #	QUANTITY ##	UNIT
	350	1.3		Fertilizer (16-20-0)	455		Lbs.
△	6	1.3		Big Bluestem Grass Seed (Kaw)	7.8		Lbs.
△	5	1.3		Little Bluestem Grass Seed (Aldous)	6.5		Lbs.
△	2	1.3		Indiangrass Seed (Cheyenne)	2.6		Lbs.
△	2	1.3		Switchgrass Seed (Blackwell)	2.6		Lbs.
△	0.1	0.4		Coneflower (Rudbeckia)	0.04		Lbs.
△	0.1	0.4		Gay Feather (Ligtris)	0.04		Lbs.
**	350	.01	—	Fertilizer (16-20-0)	4	—	Lbs.
**△	4.4	.01	—	Little Bluestem Grass Seed (Aldous)	0.05	—	Lbs.
**△	8.8	.01	—	Sideoats Grama Grass Seed (Trailway)	0.09	—	Lbs.
				Erosion Control	971.0	—	S.Y.
				Mulching	1.3		Acres

* NOTE: Projects of less than 2 acres shall not have seeding bid separately. All disturbed areas shall be seeded, fertilized and mulched at the listed rate per acre. The acres are estimated and no bid quantity is listed. This work shall be subsidiary to other items of work.

△ Lbs. of pure live seed per acre

** Planting Bed Areas (See Sh. No.) (Participating Quantities)

Project No. 87-U-1254-01

Project No. 87-U-1360-01

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1	6-8-90	Added Subsidiary Note	KLH	CLM

KANSAS DEPARTMENT OF TRANSPORTATION

EROSION CONTROL
SEEDING-SODDING
SUMMARY OF SEEDING QUANTITIES

STD. NO. 850.3

F.H.W.A. APPROVAL		7-5-90 APP'D	Carl W.L. Morgenson
DESIGNED CLM	DETAILED	RDW QUANTITIES	TRACE
DESIGN CK.	DETAIL CK. CLM	QUAN. CK.	TRACE

18-8-1-1