# SUMMARY OF QUANTITIES

| COMMON NAME | ITEM | SIZE | | RFC44-1(11) PART I QUANTITY | RFC44-1(11) PART II QUANTITY | 0044-1(13) PART I QUANTITY | TOTAL | UNIT |
|---|---|---|---|---|---|---|---|---|
| | Transplanting of Existing Trees | | | | | 123 | 123 | Lump Sum |
| Common Hackberry | *Celtis occidentalis* | | 6-8' | 7 | 6 | 17 | 30 | Each |
| Eastern Redbud | *Cercis canadensis* | | 3-4' | 37 | 10 | 53 | 100 | " |
| Cockspur Hawthorn | *Crataegus crusgalli* | B & B 14" Ball | 5-6' | 12 | | 44 | 56 | " |
| Russianolive | *Elaeagnus angustifolia* | | 3-4' | 29 | | 71 | 100 | " |
| Green Ash | *Fraxinus lanceolata* | | 6-8' | 15 | | 15 | 30 | " |
| Ginkgo | *Ginkgo biloba* | B & B 18" Ball | 6-8' | 11 | | 19 | 30 | " |
| Thornless Honeylocust | *Gleditsia triacanthos inermis* | | 6-8' | 15 | 4 | 41 | 60 | " |
| Kentucky Coffeetree | *Gymnocladus dioicus* | | 6-8' | 10 | 4 | 16 | 30 | " |
| Goldenraintree | *Koelreuteria paniculata* | | 5-6' | 5 | | 36 | 41 | " |
| Hopa Crabapple | *Malus 'HOPA'* | | 4-5' | 26 | | 44 | 70 | " |
| Austrian Pine | *Pinus nigra* | B & B 18" Ball | 4-5' | 10 | 10 | 10 | 30 | " |
| Ponderosa Pine | *Pinus ponderosa* | B & B 18" Ball | 4-5' | 9 | | 21 | 30 | " |
| Scotch Pine | *Pinus sylvestris* | B & B 18" Ball | 4-5' | 11 | | 39 | 50 | " |
| Male Eastern Cottonwood | *Populus deltoides* (Male) | | 6-8' | 3 | | 14 | 17 | " |
| Northern Red Oak | *Quercus borealis* | B & B 18" Ball | 6-8' | 5 | | 33 | 38 | " |
| Littleleaf Linden | *Tilia cordata* | B & B 18" Ball | 6-8' | 4 | 5 | 24 | 33 | " |
| | Peat Moss (Dry Weight) | | | 9,040 | 1,940 | 39,120 | 50,100 | Pound |
| | Fertilizer (12-24-12) | | | 209 | 39 | 620 | 868 | Pound |

# GENERAL NOTE

TRANSPLANTING OF EXISTING TREES: Existing trees as indicated on the plan sheet are to be transplanted according to standard specifications for furnishing and planting plant materials and as shown in the general note. Digging of trees may be done manually or with specialized mechanical tree digging equipment. Soil balls shall be solid, intact, burlapped, and laced in a secure manner except that trees dug with "Vemeer type" tree digging and moving equipment may be transplanted without burlapping and lacing if the tree is not removed from the equipment after digging until it has been placed in the new hole. Transplanted trees dug with "Vemeer type" tree digging equipment may be planted in excavations made by the same equipment. Transplanted trees shall be guyed in accordance with standard specifications. (Nursery supplied trees shall be staked as shown in the detail.) The Contractor shall not be required to replace dead and damaged plants covered in this transplanting contract; however, this does not relieve the Contractor from exercising reasonable care in transplanting these plants. Transplanting of existing trees shall be accomplished at the earliest possible planting season.

SOIL BALL SIZE SCHEDULE

| Small Trees & Evergreens Plant Height | No. | Standard Shade Trees * Trunk Caliper | No. | Minimum Ball Size Dia. | Depth |
|---|---|---|---|---|---|
| 6 - 8' | 9 | | | 26" | 16" |
| 8 - 10' | 59 | | | 38" | 24" |
| 10 - 12' | 16 | | | 42" | 26" |
| 12 - 15' | 17 | | | 50" | 30" |
| 15 - 30' | 21 | 6" | 1 | 60" | 36" |

* Caliper measured 12" above ground

PEAT MOSS: Peat moss shall be thoroughly incorporated into well pulverized backfill soil. The rate of application is shown in the Peat Moss Rate Schedule below.

* PEAT MOSS RATE SCHEDULE

| | |
|---|---|
| Each 3-4' bare root plant | 20 Pounds |
| Each 4-6' bare root plant & Each plant with a 14" soil ball | 40 Pounds |
| Each 6-8' bare root plant & Each plant with an 18" soil ball | 60 Pounds |
| ** Each plant with a 26" soil ball | 80 Pounds |
| ** Each plant with a 38-42" soil ball | 120 Pounds |
| ** Each plant with a 50-60" soil ball | 180 Pounds |

* Peat moss quantities in the rate schedule and in the pay quantities are based on oven-dry weight. Actual peat moss quantities used shall be adjusted to compensate for moisture, and ash content in excess of 20 percent.

** No peat moss shall be required if transplanted trees dug with "Vemeer type" tree digging equipment are planted in holes excavated by the same equipment.

EQUATION FOR MOISTURE ADJUSTMENT

Rate of Application X (1 + ___% moisture) = Adjusted Rate of Application

EQUATION FOR ASH ADJUSTMENT IF ASH CONTENT EXCEEDS 20 PERCENT

Adjusted Rate of Application X ( *% of plan quantity) = Actual Rate of Application

* See Peat Moss Application Chart, Section 1011.13, Standard Specifications

FERTILIZER: Fertilizer (12-24-12) shall be uniformly applied to the surface area of the backfill soil except that no fertilizer shall contact plant foliage or be placed closer than 6" to the stems of plants. Other fertilizer ratios may be used provided that the rate of application of actual N, $P_2O_5$, and $K_2O$ is equal to or exceeds the rate called for in the plans and is approved by the Engineer. The rate of application is 1 pound per plant.

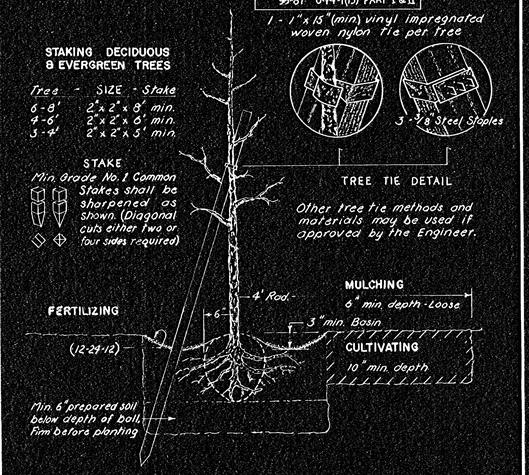
TOP PRUNING: All deciduous trees shall have 1/2 to 2/3 of each twig's prior season growth removed.

MULCH: A layer of noxious weed-free prairie hay mulch shall be loosely and uniformly applied to each tree and to each shrub bed to a minimum depth of 6". Upon approval of the Engineer, wood chips applied to a minimum depth of 3" may be used in place of prairie hay.

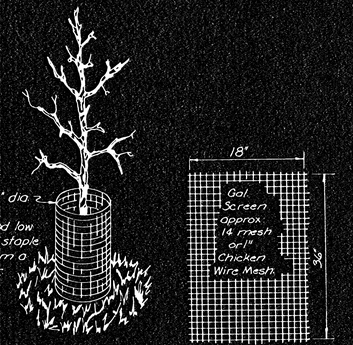
GALVANIZED WIRE SCREENS: Galvanized wire screens shall be furnished and installed by the Contractor around each deciduous tree (*Transplanted trees excluded*) in the manner as shown on the plans. This item is subsidiary to planting trees.

ANTI-TRANSPIRANT: All Contractor furnished evergreens and partially-in-leaf deciduous plants shall be treated with an anti-transpirant at the nursery of origin prior to digging. The nursery of origin shall supply a certificate that the plants have been treated. Existing on-site evergreens and partially-in-leaf deciduous plants that are to be transplanted shall be treated by the Landscape Contractor prior to digging. Deciduous plants that break dormancy after delivery but prior to planting shall be treated by the Landscape Contractor prior to planting. The material shall be a poly-vinyl chloride complex liquid and shall be applied by spraying in accordance with the manufacturer's recommendation. This treatment is subsidiary to planting and transplanting trees.

| FHWA REGION NO. | STATE | PROJECT NO. | YEAR | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|---|---|
| 7 | KANSAS | 96-87 0044-1(11) PART I & II | 1976 | 248A | 557 |
| | | 96-87 0044-1(13) PART I & II | | | |




STAKING, FERTILIZING & MULCHING
- NO SCALE -




GALVANIZED WIRE SCREEN
-NO SCALE-

| NO. | DATE | REVISIONS | BY | APP'D |
|---|---|---|---|---|
| 3 | | | | |
| 2 | | | | |
| 1 | | | | |

KANSAS DEPARTMENT OF TRANSPORTATION

**ROADSIDE IMPROVEMENT SUMMARY OF QUANTITIES GENERAL NOTE & DETAIL**

| | | | | | |
|---|---|---|---|---|---|
| SHEET NO. 1 OF 7 | SCALE | | APP'D | | |
| DESIGNED | DETAILED | | QUANTITIES | TRACED | JHE |
| DESIGN CK. | DETAIL CK. | | QUAN. CK. | TRACE CK. | |