FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87M-5899(001)	1974	1	100

STATE OF KANSAS

STATE HIGHWAY COMMISSION

PLAN AND PROFILE OF PROPOSED

GEORGE WASHINGTON BOULEVARD

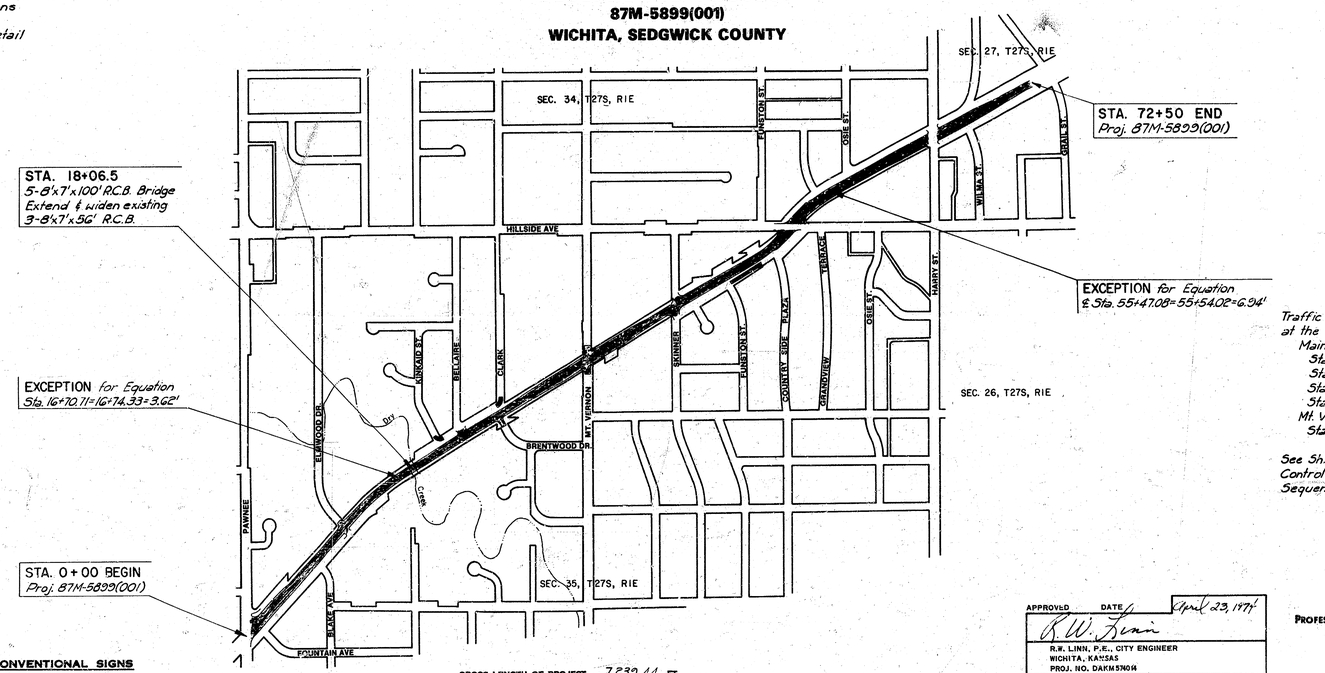
FEDERAL AID PROJECT
87M-5899(001)
WICHITA, SEDGWICK COUNTY

GRADING
STORM SEWER
PAVING
SODDING

PEC
SCALE: 1"=400'

INDEX OF SHEETS

1. Title Sheet
2-3. Typical Sections
4-16. Street Improvement Plans
17-24A. Pavement Details (Sh. No. 23 deleted)
25-28. Miscellaneous Details (Sh. No. 26 deleted)
29-42. Storm Drain Plans
43-53. Inlet and Manhole Details
53A. Concrete End Sections
54-56. R.C.B. Bridge Details
57-58. Summary of Quantities
59. Temporary Project Water Pollution Control
59A-59B. Seeding
60-61. Traffic Control
62. Type III Barricades (Fixed)
63. Drainage Areas
64-76. Pavement Striping Plans
77-79. Traffic Signal Plans
79A. Signal Installation Detail
80-100. Cross Sections



Traffic to be carried across construction at the following locations:
Mainline
Sta. 0+00 (Pawnee Ave.)
Sta. 33+18.24 (Mt. Vernon Rd.)
Sta. 51+44.23 (Hillside Ave.)
Sta. 64+07.45 (Harry St.)
Mt. Vernon Rd.
Sta. 40+64.3 (Hillside Ave.)

See Sh. No. 4 for additional Traffic Control in accordance with Construction Sequencing.

DESIGN DESIGNATION

ADT (1973)	= 8,300
ADT (2000)	= 11,200
DHV	= 12%
D	= 40-60
T	= 4%
V	= 40
COF A	= NONE

CONVENTIONAL SIGNS

COUNTY LINE		RETAINING WALL	
CORPORATE LIMITS		CENTER LINE OF PROJECT	50
STATE OR NATIONAL LINE		LEVEE	
TOWNSHIP LINE		CULVERTS	
SECTION LINE		DROP INLETS	S
GRANT LINE		ACCESS CONTROL	
FENCE LINE		POWER LINE	
GUARD FENCE		TELEPHONE OR TELEGRAPH LINE	
UNFENCED PROPERTY		MARSH	
RIGHT OF WAY LINE		HEDGE	
TRAVELLED WAY		TREES	
RAILROADS		GRADE ELEVATION	50

GROSS LENGTH OF PROJECT	7,239.44 FT.		
EXCEPTIONS			
ADDITIONS			
NET LENGTH OF PROJECT	7,239.44 FT.	1.371	MILES
NET LENGTH OF BRIDGES	45.25 FT.	0.009	MILES
NET LENGTH OF ROAD	7,194.19 FT.	1.362	MILES

APPROVED DATE April 23, 1974
R.W. Linn
R.W. LINN, P.E., CITY ENGINEER
WICHITA, KANSAS
PROJ. NO. DAKM 57N014

RECOM. FOR APPROVAL DATE
ENGINEER OF URBAN HIGHWAYS
STATE HIGHWAY COMMISSION OF KANSAS

APPROVED DATE
STATE HIGHWAY ENGINEER
STATE HIGHWAY COMMISSION OF KANSAS

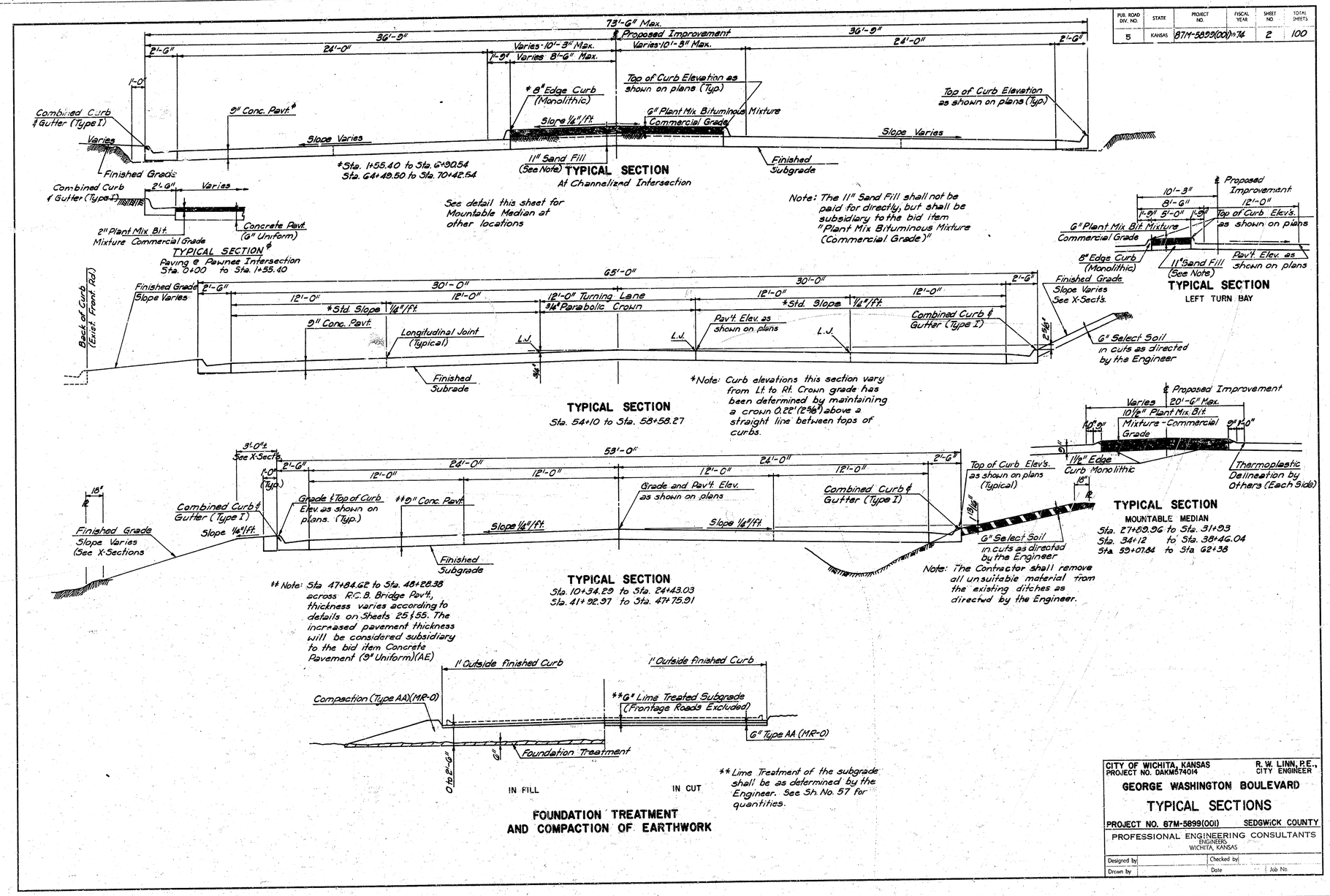
RECOM. FOR APPROVAL DATE
ENGINEER
FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

APPROVED DATE
DIVISION ENGINEER
FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

PLANS PREPARED BY
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

See Note 7, 7 7

PUB. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	KANSAS	87M-5899(001)	74	2	100



TYPICAL SECTION
At Channelized Intersection

See detail this sheet for Mountable Median at other locations

Note: The 11" Sand Fill shall not be paid for directly, but shall be subsidiary to the bid item "Plant Mix Bituminous Mixture (Commercial Grade)"

TYPICAL SECTION
Paving @ Pawnee Intersection
Sta. 0+00 to Sta. 1+55.40

TYPICAL SECTION
LEFT TURN BAY

TYPICAL SECTION
Sta. 54+10 to Sta. 58+58.27

*Note: Curb elevations this section vary from Lt. to Rt. Crown grade has been determined by maintaining a crown 0.22' (2 5/8") above a straight line between tops of curbs.

TYPICAL SECTION
MOUNTABLE MEDIAN
Sta. 27+89.96 to Sta. 31+93
Sta. 34+12 to Sta. 38+46.04
Sta. 59+07.84 to Sta. 62+38

TYPICAL SECTION
Sta. 10+34.29 to Sta. 24+43.03
Sta. 41+92.97 to Sta. 47+75.91

Note: The Contractor shall remove all unsuitable material from the existing ditches as directed by the Engineer.

** Note: Sta 47+84.62 to Sta. 48+28.38 across R.C.B. Bridge Pav't., thickness varies according to details on Sheets 25 & 55. The increased pavement thickness will be considered subsidiary to the bid item Concrete Pavement (9" Uniform)(AE)

FOUNDATION TREATMENT AND COMPACTION OF EARTHWORK

** Lime Treatment of the subgrade shall be as determined by the Engineer. See Sh. No. 57 for quantities.

CITY OF WICHITA, KANSAS
PROJECT NO. DAKM574014

R. W. LINN, P.E., CITY ENGINEER

GEORGE WASHINGTON BOULEVARD

TYPICAL SECTIONS

PROJECT NO. 87M-5899(001) SEDGWICK COUNTY

PROFESSIONAL ENGINEERING CONSULTANTS
ENGINEERS
WICHITA, KANSAS

Designed by		Checked by	
Drawn by		Date	Job No.

J gine Eee Je S 9 9 9 S Jewel

FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87M-5899(001)	1974	9	100

Sec. 35, T27S, R1E

R.O.T. Sta. 33+18.24
1. Nail at P.O.T.
2. N. End Curb Return 35.60' N.E.
3. N. End Curb Return 65.85' N.W.
4. S. End Curb Return 34.05' S.W.

Scale: 1"=20'

-3.46% 300' V.C. -0.24%

℄ Profile of Proposed Improvement

Variable Slope Lt. Warp as shown

P.I. 104.10 (4.25)

PT (4.75)

Sta. 30+94 Reconstruct Conc. Drive as directed by the Engineer Remove Exist. 15'x1.5'x 19' Wooden Box Culvert Lt.

Sta. 31+92 to Sta. 31+87 Const. Conc. Transition See Sh. No. 24

Sta. 49+35 Remove Exist. Manhole Lt. & 15'x6'G' RCP(SE) & 30"x6'G' RCP(W) after completion of Storm Drain Construction

Sta. 33+69 Adjust Manhole Lt. & Remove 30"x20' RCP(S) & 24"x12' RCP(NW) & plug Exist. Manhole (S)W(NW.) after completion of Storm Drain Construction

Sta. 48+05 to 49+45 Remove 4' Conc. Sidewalk Lt. Sta. 48+05 to 49+11 Const. 4' Conc. S.W. Lt. See Sh. No. 24 A

Sta. 33+05 Remove Exist. 6'x2'x35° RCB

Sta. 34+43 Remove 24"x 26' CMP Lt.

Edge Curb (8")

Sta. 49+46 to 49+90 Remove 4' Conc. Sidewalk Rt. Sta. 49+46 to 49+70 Const. 4' Conc. S.W. Lt. See Sh. No. 24A

Edge Curb (6")

6" Plant Mix Bituminous Mixture (Commercial Grade)

Edge Curb (6")

Edge Curb (6")

Edge Curb (6")

Edge Curb (11½")

Combined Curb & Gutter (Type I)(AE)

Edge Curb (11½")

Combined Curb & Gutter (Type I)(AE)

Combined Curb & Gutter (Type I)(AE)

Edge Curb (6")

Sta. 34+74 Adjust Manhole Rt.

10½" Plant Mix Bituminous Mixtute (Commercial Grade)

6" Plant Mix Bituminous Mixture (Commercial Grade)

10½" Plant Mix Bituminous Mixture (Commercial Grade)

Sta. 30+70 Remove Exist. 15'x1.5'x 19' Wooden Box Culvert Lt.

Sta. 30+85 Remove Exist. 15'x 20' CMP Rt.

Sta. 31+67 Remove Exist. 22"x14"x20' CM. IAC Rt.

Sta. 30+69 Remove Exist. Manhole Rt. & 24"x28' RCP(SE) & 24"x60' RCP(SW)

Sta. 33+19 Adjust Manhole Rt.

Sta. 50+43 Adjust Manhole Lt.

Saw Cut Exist. Pav't. as shown

Sta. 34+05 to Sta. 34+13 Const. Conc. Transition See Sh. No. 24

Detmer D. Davis

Paul W. Dicks

Charles E. Young

H.C. Rademacher

James M. Donnell

Frank A. Furgeson

Elwood M. Ecord

Exist. R/W 50'±

Exist. R/W 40'±

Exist. R/W 30'±

Exist. R/W 60'±

Exist. R/W 30'±

Exist. R/W 50'±

Exist. R/W 40'±

Exist. R/W 50'±

MT. VERNON ROAD

Variable Slope Rt. Warp as shown

Earthwork Balance
Sta. 18+28.38 to Sta. 35+00

** 1,409 Cu. Yds. Rock Excavation (Conc. & Asph. Pav't.)
* 3,042 Cu. Yds. Common Excavation (-30%)
650 Cu. Yds. Embankment

** Includes 1,409 Cu. Yds. to be wasted
* Includes 1,161 Cu. Yds from Channel Change Lt. & Rt. Sta. 18+06.5
* Includes 5 Cu. Yds. from Side Road Lt. Sta. 22+40.26
* Includes 105 Cu. Yds. from Side Road Rt. Sta. 25+49.61
* Includes 80 Cu. Yds. from Side Road Lt. & Rt. Sta. 33+18.24
* Includes 4,189 Cu. Yds. to be wasted.

Curve Data (Arc) (Back of Curb)
P.I. 36.75' Rt. Sta. 29+58.72
Δ = 3°07'23"
D = 5°00'00"
R = 1145.92'
T = 31.24'
L = 62.46'

℄ - 2½" deep sawed joint Omit Tie Bars

See Sh. No. 33 & 42 for Storm Drain Plan.
See Sh. No. 27 for 2" Electric Conduit (Metallic) & Electric Service Box Detail & Layout

B.M. #4A R.R. Spike in Elm @ N.E. Cor. Mt. Vernon & Geo. Wash. Blvd. El. 108.548

B.M. #2 "O" on N. Curb Mt. Vernon 20.8' N. of N. End Curb Return N.W. Cor. Mt. Vernon & Geo. Wash. Blvd. El. 102.451

CITY OF WICHITA, KANSAS
PROJECT NO. DAKM574014

R. W. LINN, P.E., CITY ENGINEER

GEORGE WASHINGTON BOULEVARD
STREET IMPROVEMENT PLAN
STA. 29+00 TO STA. 35+00

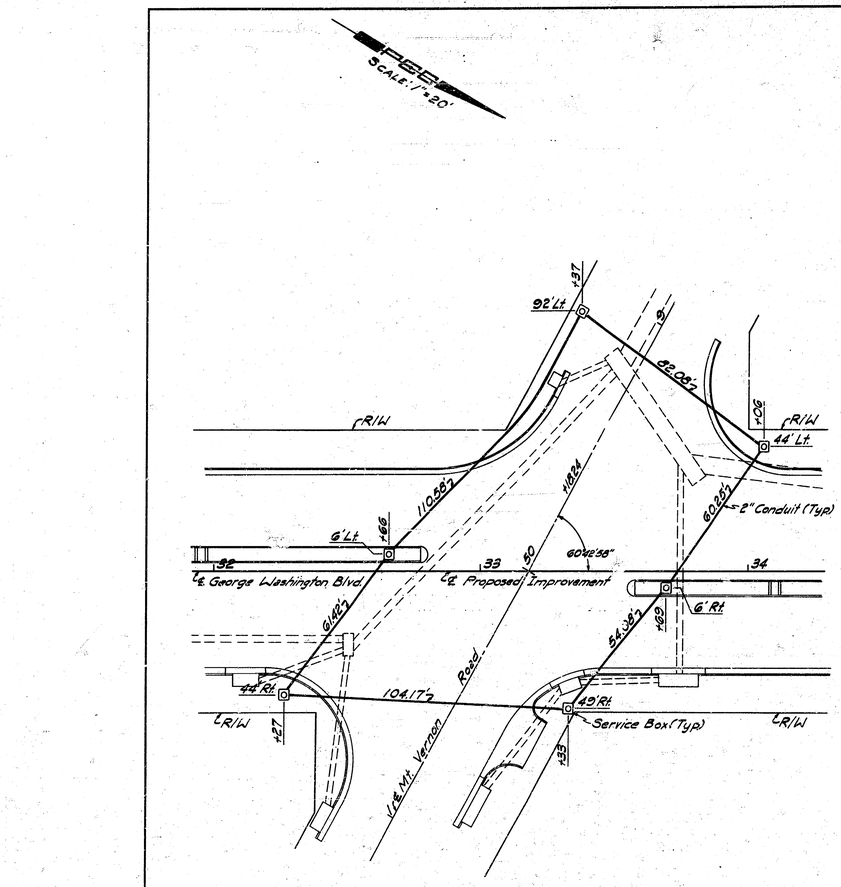
PROJECT NO. 87M-5899(001) SEDGWICK COUNTY

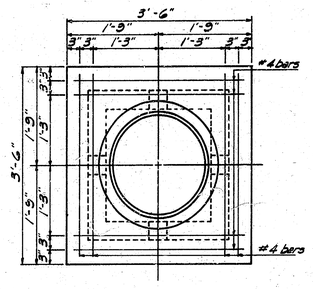
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by		Checked by	
Drawn by		Date	Job No.

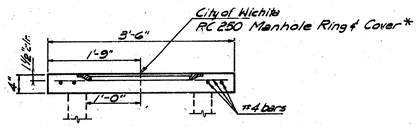
FED. ROAD DIV. NO	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	KANSAS	87M-5899(001)	74	27	100

Sheet No. 26 Deleted

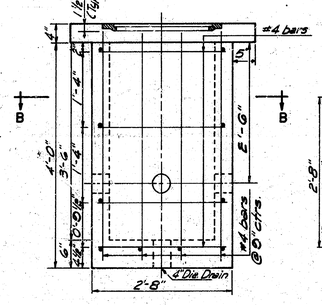




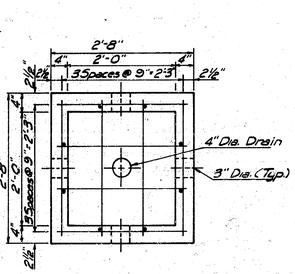
PLAN



SECTION THROUGH TOP



ELEVATION



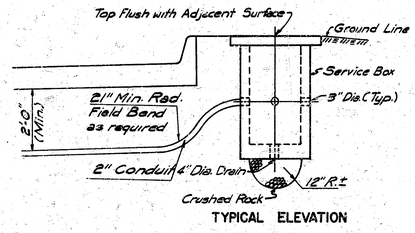
SECTION B-B

Quantities per Service Box	
Class A Concrete	0.65 Cu Yds
Reinforcing Steel	71 Lbs.
R.C. 250*	1 Each

NOTES:
A pre-cast service box with an open bottom will be accepted as an alternate; subject to the Approval of the Engineer.

All items of work and material required to construct the service boxes shall be paid for under bid item "Electric Service Boxes" (Each)

*To be furnished by Traffic Dept, City of Wichita.



TYPICAL ELEVATION

SERVICE BOX DETAILS

CITY OF WICHITA KANSAS
PROJECT NO. DAKM574014

R. W. LINN, P.E.
CITY ENGINEER

GEORGE WASHINGTON BOULEVARD
ELECTRIC SVC. BOX DTLS.

PROJECT NO. 87M-5899(001) SEDGWICK COUNTY

PROFESSIONAL ENGINEERING CONSULTANTS
ENGINEERS
WICHITA, KANSAS

Designed by | Checked by
Drawn by | Date

FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87M-5899(001)	1974	10	100

P.O.T. Sta. 40+87.48
1. ¾" hole cut in pavt. @ P.O.T. E Skinner
2. ¾" pipe in thimble on E Skinner 56.90'W.
3. Nail & Washr. in Jt. Light Pole 55.14'S.E
4. Bk. Curb & N. End Return 28.35'NNE

Curve Data (Arc) (Back of Curb)
P.I. 36+75.75 Lt. Sta. 36+77.28
P.I. 29+50 Lt. Sta. 38+68.14
Δ = 3°07'23"
D = 5°00'00"
R = 1145.92'
T = 31.24'
L = 62.46'

Sec. 35, T27S, R1E

Scale: 1"=20'

℄ Profile of Proposed Improvement

-0.24% 100' V.C. +0.24%

Albert J. Durree
Ivan F. Farney
Donald L. Ambrose
O.C. Barker % Wm. C. Edwards
Geraldine Shook Etal
W.D. Royer
G.R. Cunningham
C.E. Manley
Jaime F. Hansman
Elwood M. Ecord
Hal G. Stesdham
Maria L. Caldwell
Roy M. Fuller
Harold E. Henton
Mary D. Megruder

Combined Curb & Gutter (Type I) (AE)

Sta. 35+94 Reconstruct Existing Drive as Directed by the Engineer Remove Exist. 12"x17' RCP Lt.

Sta. 36+07 Remove Exist. 12'x16' RCP Lt.

Sta. 36+73 Remove Exist. 12'x21' RCP Lt.

Sta. 37+62 Remove Exist. 18'x21' CMP Lt.

Sta. 38+28 Remove Exist. 18'x23' CMP with Conc. Headwalls Lt.

Sta. 39+20 Remove Exist. 15'x25' CMP Lt.

Sta. 39+89 Remove Exist. 15'x21' CMP Lt.

Exist. R/W 91'℄

Exist. R/W 80'℄

Exist. R/W 130'℄

P.C. (125) 10+08.00 3.50 Rt.
P.I. 10+25.53 (4.75)
P.R.C. +7.02 2.50 Lt.
+46.04 P.C. 36+79 Lt. R.C.C. 2.50 Lt.
27+04.47 35.05 Lt.
P.C. +33.25 28.20 Lt.
P.T. +96.38 26.50 Lt.
P.C. +55.08 26.50 Lt.
P.T. +48.89 1.50 Rt.
P.I. 10+22
P.T. (125)
Match Exist. 115'

Spare
Typ.
90°
80°
70°
(T.C.)
(T.C.)
(T.C.)

FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87M-5899(001)	1976	8	100

P.O.T. Sta. 23+37.19
1. ⅝" Iron in pavement
2. Center street light pole 68.0' S.
3. C.M.& N.W. cor. Bellaire & George Wash. Drive 90.85' S.W.
4. Back curb E. side George Wash. Drive 90° to ℄ 49.35' W.S.W.

Sec. 35, T27S, R1E

PLAN
Scale: 1"=20'

400' V.C.
SSD=366'

+0.90%

-3.46%

℄ Profile of Proposed Improvement

P.I. 122.36 (400)

P.T. (400)

Concrete Pavement (6" Uniform)(AE)

Variable Slope Lt. Warp Curb as shown

P.C. (475)

(400)

(430)

Jerold E. Jeepersen

C.H. Gardner

Clarence E. Heaton

Edge Curb (6")

Sta. 25+70 to Sta. 25+88 Remove 4 Wood Guide Posts Lt.

Exist. R/W 30'℄

Exist. R/W 30'℄

CLARK STREET

Match Exist. 6" Conc. Curb & Gutter

6" Conc. Valley Gutter

Limit R/W 80'℄

Robert P. Thomson

Delbert D. Sedbrook

Detmer D. Davis

Sta. 28+39 Remove Exist. 18"x 12' CMP Lt.

Combined Curb & Gutter (Type I)(AE)

Sta. 27+44 Remove Exist. 18"x 16' CMP Lt.

Sta. 28+05 Remove Exist. 18"x 12' CMP Lt.

10½" Plant Mix Bituminous Mixture (Commercial Grade)

Exist. R/W 80'℄

GEORGE WASHINGTON DRIVE

℄ Exist. R/W 91'℄

Combined Curb & Gutter (Type I)(AE)

P.I. 43.03 26.30' Lt.

4" Chain Line

6" Conc. Retaining Wall

Spare

Wood Guide Posts

8" Water Main

W.V.

Typ.

P.I. 43.96 0.75' Lt. ℄ 4.75' Lt.

Exist. R/W 80'℄

Exist. R/W 30'℄

2" Gas Service

15" CMP

18" CMP

Gravel Drive

Sta. 23+44 Reconstruct Exist. Drive as directed by the Engineer

Combined Curb & Gutter (Type I)(AE)

John E. Wherry

Harry D. Smitherman

Frame House

Iron

Exist. R/W 91'℄

Match Exist.

P.I. 49.63' Rt.

Iron

Exist. R/W 80'℄

P.C. +49.11 50.50' Rt.

P.T. +56.50 13.50' Rt.

P.C. +56.50 15.50' Lt.

Sta. 24+81 Remove Exist. 15"x 18' CMP Rt.

3½" Privet Hedge

Tree Grove

Merle S. Dickerson

P.T. +39.62 28.50' Rt.

P.T. +02.05 28.20' Rt.

Edge Curb (11½")

Melvin E. Brumley

Sta. 28+53 Remove Exist. 1.5'x 1.5'x 20' Wooden Box Culvert Rt.

Combined Curb & Gutter (Type I)(AE)

Sta. 25+49.61 Const. Conc. Valley Gutter Rt. See Sh. No. 22 Remove Conc. Flume & Exist. 15"x 41' CMP Rt.

BRENT WOOD

See Sh. No. 3 for Resurfacing Detail.

Concrete Pavement (8" Uniform)(AE)

See Sh. No. 32 for Storm Drain Plan.

Curve Data (Arc) (Back of Curb)
P.I. 26.50' Rt. Sta. 27+70.86
Δ = 3°07'23"
D = 5°00'00"
R = 1145.92'
T = 31.24'
L = 62.46'

B.M. #3A R.R. Spike in 3rd. Lt. Po. N.W. Cor. Bellaire & Geo. Wash. Dr. El. 120.318

CITY OF WICHITA, KANSAS
PROJECT NO. DAKM574014

R. W. LINN, P.E., CITY ENGINEER

GEORGE WASHINGTON BOULEVARD
STREET IMPROVEMENT PLAN
STA. 23+00 TO STA. 29+00

PROJECT NO. 87M-5899(001) SEDGWICK COUNTY

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

Designed by		Checked by	
Drawn by		Date	Job No.

Sec. 35, T27S, R1E

P.O.T. Sta. 46+20.90
1. Chis. "U" at P.O.T.
2. S. End 18" R.C.P. Ent. Pipe 95.60' N.N.W.
3. E. Fc. Conc. Base of Pckg. Lt. 54.08' W.
4. N.E. Cor. Hdgd. of Ent. Struct. 51.41' S.

FHWA REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87M-5899(001)	1974	11	100

Scale: 1" = 20'

+0.24% 100' V.C. +0.70%

℄ Profile of Proposed Improvement

Sta. 41+03 Remove 18"x 50' C.M.P.

Sta. 42+18 Remove Exist. 15"x 36' R.C.P.

Sta. 42+93 Remove Exist. 18"x 32' R.C.P. with Conc. Headwalls Lt.

Sta. 44+50 Remove Exist. 18"x 32' R.C.P. with Conc. Headwalls Lt.

Sta. 45+48 Remove Exist. 18"x 33' R.C.P. with Conc. Headwalls Lt.

SKINNER STREET

Exist. R/W 80'℄

Exist. R/W 91'℄

Edge Curb (6")

Combined Curb & Gutter (Type I) (AE)

Sedgwick County

Fire Station

Safeway Stores Inc.

Exist. R/W

R/W 50'℄

Exist. R/W 80'℄

Courtesy Walk

P.C. (+50)

P.I. 104.37 (100)

P.T. (+50)

P.C. (+70) 26.50' Lt.

P.T. 100' Rt. 15.00' Lt.

(T.C.)

Asphalt Paving

Concrete Paving

Wood Light Pole

Guy Wire

Fire Hydrant

Gas Line

Water Line

Sewer Line

Power Line

Telephone Line

Gas Service Typ.

16" Water Main

GEORGE WASHINGTON DRIVE

GEORGE WASHINGTON COURT

FUNSTON STREET

Mary C. Magruder

Floyd B. Hannon

Samuel Harrington

Nellie Deforest

Ernest E. Rindelas

Norma Durmaskin

Aqp

Edge Curb (6")

Combined Curb & Gutter (Type I) (AE)

Conc. Pavement (9" Uniform) (AE)

Conc. Pavement (6" Uniform) (AE)

Sta. 44+65 to Sta. 44+75
Const. 15 Lin. Ft. Edge Curb (6")
42.1' Rt. with Gutter Shaping.
See Sh. No. 21. See Sh. No. 35 & 43 for Paving details.

Sta. 44+60 to Sta. 44+80
Const. 20 Lin. Ft. Edge Curb (6")
76.3' Rt. with Gutter Shaping
See Sh. No. 21. See Sh. No. 35 & 43 for Paving details.

Sta. 44+87.8 Const.
20 Lin. Ft. Combined Curb & Gutter (Type I) (AE)
91.5' Rt. to 111.5' Rt. with Gutter Shaping.
See Sh. No. 21 & 24

Sta. 45+18.8 Const.
18 Lin. Ft. Combined Curb & Gutter (Type I) (AE)
91.5' Rt. to 106' Rt. with Gutter Shaping.
See Sh. No. 21 & 24

ϕ- 2½" deep sawed joint
Omit Tie Bars

See Sheet No. 35 for Storm Drain Plan

B.M. #5 "X" on N. Curb Skinner G'W. of N.E. Geo. Wash. Blvd. El. 103.583

CITY OF WICHITA, KANSAS
PROJECT NO. DAKM574014

R. W. LINN, P.E., CITY ENGINEER

GEORGE WASHINGTON BOULEVARD
STREET IMPROVEMENT PLAN
STA. 41+00 TO STA. 47+00

PROJECT NO. 87M-5899(001) SEDGWICK COUNTY

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

Designed by		Checked by	
Drawn by		Date	Job No.