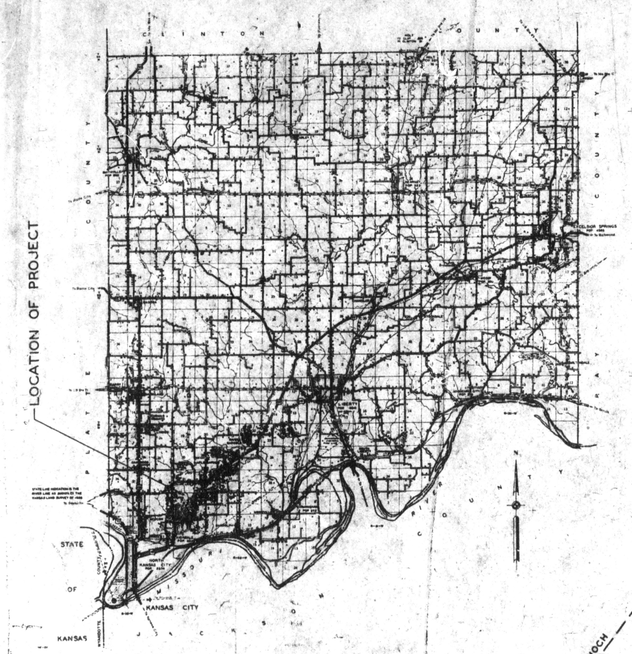
COUNTY
CLAY
STATE ROUTE NO.
69
PROJECT NO.
UI-99(7)

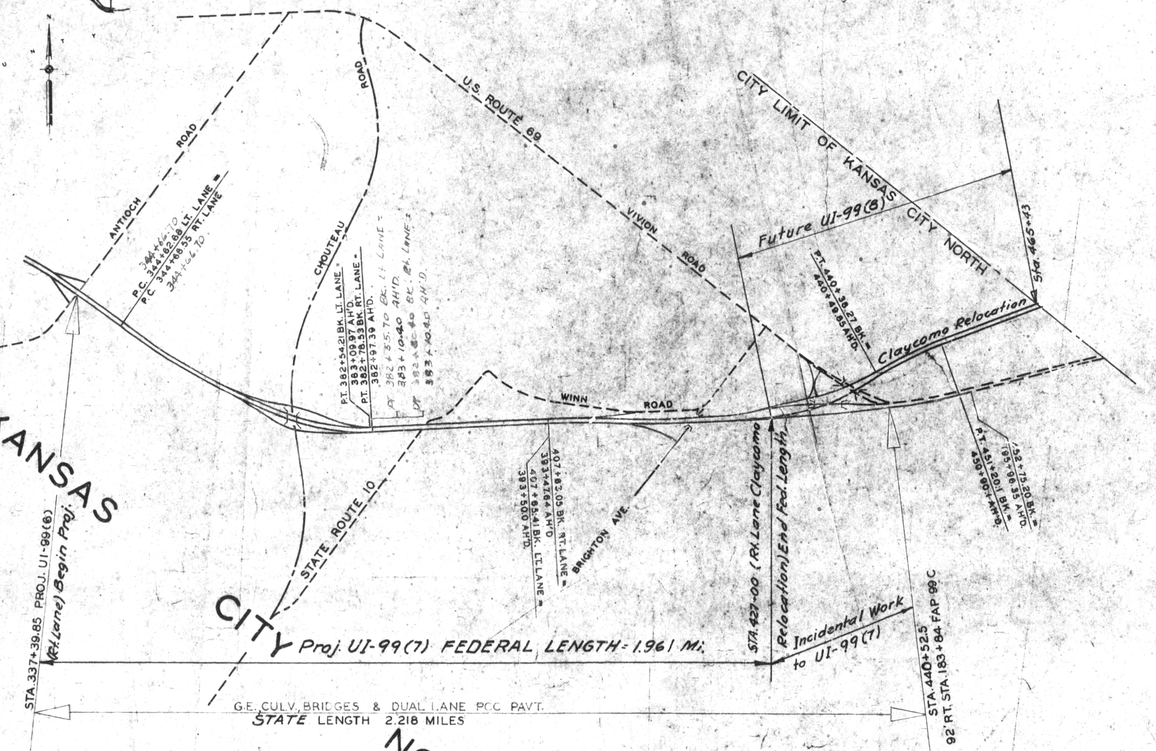
MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD

FEDERAL AID PROJECT

CLAY COUNTY

LOCATION MAP





372

LEGEND

- PROPOSED CONSTRUCTION
- EXISTING FEDERAL AND STATE ROUTES
- CITY STREET AND PROJECTS

CONVENTIONAL SIGNS

STATE AND NATIONAL LINE	LEVEE
COUNTY LINE	CULVERTS
CITY, VILLAGE OR BOROUGH	DROP INLET
TOWNSHIP LINE	TROLLEY POLE
SECTION LINE	POWER POLE
GRANT LINE	TELEPHONE OR TELEGRAPH POLE
FENCE LINE	MARSH
GUARD RAIL	HEDGE
UNFENCED PROPERTY	
RIGHT OF WAY LINE	GROUND ELEVATION
TRAVELED WAY	
RAILROADS	GRADE ELEVATION
RETAINING WALL	SURFACE LINE
BASE OR SURVEY LINE	GRADE LINE

LIMITED ACCESS HIGHWAY

This shall be a limited-access highway between Station 214+00 and Station 465+43. Except at locations and as otherwise specifically shown on these plans, no abutter's rights in, or of direct access to, from, or across the highway or its right of way shall attach or belong to any property abutting on said section of highway, or to any person merely because of ownership of such abutting property. There shall be the usual right of access over any location either (1) shown on these plans as a property entrance (P.E.), field entrance (F.E.), or private underpass, or (2) where and when any such entrance, underpass, or an open public highway is being maintained by the governmental agency having authority therefor. Wherever an adjacent outer-roadway is so shown or maintained, there shall be the usual right of direct access between the abutting property and such outer-roadway, and also to and from the nearest lane of the thruway or a public highway. However, during all the while an outer-roadway is being so maintained, there shall be no right of access over any part of an entrance which lies between said outer-roadway and the thruway.

----------LEGEND----------

TERMINAL POINT

LIMITED ACCESS

XXX

XXX

SUBMITTED BY [redacted] DATE [redacted]

CHIEF ENGINEER
MISSOURI STATE HIGHWAY COMMISSION

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL:

[redacted]
DISTRICT ENGINEER DATE

APPROVED:

[redacted]
DIVISION ENGINEER DATE

UI-99(7) 3
CLAY 69
FINAL PLANS

STA 337+39.85 IS A POINT 2960' SOUTH & 60' EAST OF NE COR. SEC. 1 T50N R 33W

SEE SPEC. SHEET NO. 12 FOR BRIDGE APPR. SLAB

NOTE
MATERIAL PLACED IN UNDERGRADED CUTS AND IN AREAS WHERE UNSATISFACTORY MATERIAL IS REMOVED FROM THE ROADBED SHALL BE COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS FOR "COMPACTING EMB. (ROLLING)" AND WILL BE MEASURED AND PAID FOR AS SUCH.

HEDGE REMOVAL WILL NOT BE PAID FOR AS A SEPARATE ITEM ON THIS PROJECT BUT WILL BE CONSIDERED AS COMPLETELY COVERED BY THE PRICE BID FOR OTHER ITEMS IN THIS CONTRACT.

⊗ DENOTES R/W MARKER

PLAN — SURVEYED, PLOTTED, TRACED, CHECKED, NOTE BOOK, NO., DATE, BY

PROFILE — SURVEYED, PLOTTED, TRACED, CHECKED, NOTE BOOK, NO., DATE, BY

SEE STANDARD NOTES AND SYMBOLS

380

LAB./ROAD DIST. NO.	STATE	FEDERAL PROJECT No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	UI-99(1)		3A.	
DIV. NO.	COUNTY			ROUTE	SEC.
4	CLAY			69	

FINAL PLANS

PLAN	SURVEYED	BY	DATE
NOTE BOOK	DRAWN & CHECKED		
NO.	ALIGNMENT CHECKED		
	ST. OF WAY CHECKED		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	DRAWN & CHECKED		
NO.	STRUCTURE NOTATING CHKED.		

38

Right LANE Profile only.

ROADWAY C.I.A. EXCAV. = 4,533 Y
UNDERGRADE C.I.A. EXCAV. = 182 Y
CUT COMPACTION = 36 Y
TOTAL EMBANKMENT = 4,522 Y
BACK FILL = 142 Y
COMPACTION EMBANKMENT = 4,419 Y

ROADWAY C.I.A. EXCAVATION = 10,700 Y
UNDERGRADE C.I.A. EXCAVATION = 707 Y
TOTAL EMBANKMENT = 8,500 Y
BACK FILL = 706 Y
COMPACTION EMBANKMENT = 8,547 Y
WASTE EMBANKMENT = 174 Y

ROADWAY C.I.A. EXCAVATION = 27,317 Y
UNDERGRADE C.I.A. EXCAVATION = 11 Y
ROADWAY C.I.C. EXCAVATION = 913 Y
TOTAL EMBANKMENT = 22,310 Y
BACK FILL = 130 Y
COMPACTION EMBANKMENT = 22,311 Y
WASTE EMBANKMENT = 1,229 Y

1200' V.C.
H.D. 11.25
Y = 0.0042 x²
9,350 Cu. Yds.
D.F.L. 906.9
E.F.L. 906.5
F.F.L. 906.5
4.75% Gr.
4.20% Gr.
400' V.C.
H.D. 1.51
1.25% Fl.
-0.47% Gr.
E.F.L. 847.9
I.F.L. 847.0
10 STA. 3,492.87

| | | |

UI-99(7) 4

CLAY 691

FINAL PLANS

SW1/4 NE1/4 SEC. 6 T.50N. R.32W.

NW1/4 SE1/4 SEC. 6 T.50N. R.32W.

SE1/4 NE1/4 SEC. 6 T.50N. R.32W.

GOLDEN OAKS

WOOD HILLS ANNEX

TOUGHREY

MONROE

WINNWOOD

WINNWOOD BLVD.

LAKE

N. WALROND

N. INDIANA

44TH ST.

45TH ST. TER. NO.

CHOUTEAU

KEVELAND

CURVE DATA - CHOUTEAU TRFKY.

R.I. 63+58.70
Δ 35°40' LT.
D. 2°00'
T. 921.61'
L. 1783.33'
R. 2864.93'
SE 0.0

CURVE DATA

R 376+22.6 RT. LANE
Δ 26° 18' LT
D 1° 57' 47"
T 681.90
L 1359.71
R 2918.93
SE

STA. 385+50 RT. & LT. LANES
Built 6'-7"x10'-8" Conc. Box Culv.

STA 384+81.5 RT. & LT. LANES
Built 24"-8 HD. ECP PIPE CULV.
(EQUALIZER PIPE)

STA 379+73 RAMP "N"
Built 15"x44" RCP PIPE CULV.
Built C-230 RC. HEWELL BR.

STA 379+40 CHOUTEAU
Built 18"x29" RCP PIPE CULV.
Built C-230 RC. HEWELL BR.

STA 378+35 LT. LANE
STA 378+75 RT. LANE
Built 18"-48" ECP PIPE
Built 36'-0 DROP INLET
Built 36'-0 DROP INLET

STA 378+16 RT. LANE
Built 18"x44" ECP PIPE
Built C-230 RC. HEWELL BR.

STA 376+10.6 T. LANE

STA 376+02 CHOUTEAU
Built C-230 RC. HEWELL BR.

STA 375+00 CHOUTEAU
Built 18"x44" ECP PIPE CULV.
Built C-230 RC. HEWELL BR.
SKEW 37°55' R.A.

STA 374+67 CHOUTEAU
Built 18"x44" ECP PIPE CULV.
Built C-230 RC. HEWELL BR.
SKEWED 36° L.A.

STA 374+00 CHOUTEAU
Built 18"x18" ECP PIPE CULV.
Built 36'-0 DROP INLET

STA 373+00 CHOUTEAU
Built 15"x44" ECP PIPE CULV.
Built 36'-0 DROP INLET

STA 372+00 CHOUTEAU
Built 15"x44" ECP PIPE CULV.
Built C-230 RC. HEWELL BR.
SKEW 37°55' R.A.

STA 371+50 CHOUTEAU
Built 18"x44" ECP PIPE CULV.
Built 36'-0 DROP INLET

STA 370+50 CHOUTEAU
Built 18"x44" ECP PIPE CULV.
Built C-230 RC. HEWELL BR.
SKEWED 36° L.A.

STA 369+00 45°D ST.
Built 24"x41" ECP PIPE CULV.
Built C-230 RC. HEWELL BR.

STA 368+00 CHOUTEAU
Built 18"x29" ECP PIPE
Built 36'-0 DROP INLET

STA 367+00 CHOUTEAU
Built 18"x29" ECP PIPE
Built 36'-0 DROP INLET

STA 366+00 CHOUTEAU
Built 18"x29" ECP PIPE
Built 36'-0 DROP INLET

STA

RTE/ROAD SYST. NO.	STATE	FEDERAL PROJECT No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	U1-99(7)		4A	
UN. NO.	COUNTY		ROUTE	SEC.	
4	CLAY		69		

FINAL PLANS

PLAN	SURVEYED	BY	DATE
NOTE BOOK	DRAWN		
NO.	CHECKED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

Rt LANE Profile Only

ROADWAY CL A EXCAVATION	39,687
UNDERGRADE CL A EXCAVATION	85
TOTAL EMBANKMENT	33,361
BACK FILL	289
COMPACTION EMBANKMENT	32,988
OVERHAUL	1,152

ROADWAY CL A EXCAVATION	39,149
ROADWAY CL C EXCAVATION	1,018
TOTAL EMBANKMENT	43,935
BACK FILL	383
COMPACTION EMBANKMENT	41,134
WASTE EMBANKMENT	1,137

ROADWAY CL A EXCAVATION	46,793
CL A EXCAVATION UNSUITABLE FOR EMBANKMENT	933
ROADWAY CL A EXCAVATION	3,330
TOTAL CUT COMPUTATION	52
TOTAL EMBANKMENT	46,293
BACK FILL	575
COMPACTION EMBANKMENT	44,513
OVERHAUL	26,160
– SEE SHT. PROV. FOR BELOW –	
EMBANKMENT SURCHARGE	9,695
STOCK PILE BORROW FROM SURCHARGE	9,695
ROCK FILL	12,693

FROM STA. 357+00

TO STA 391+00

-0.47%

LFL 844.5 — LFL 844.0 — 360.02

LFL 841.6 — LFL 840.4

Bridge

LFL 840.4

120

120

350' V.C. M.O. 1.41

+2.75%

LFL 834.1

LFL 833.35

LFL 832.0

FL 832.0

PI 372+50 EL 834.1

PI 375+41 EL 838.0

850 840 830 820 810

| | | |

PROJECT NO. UI-99(7) 5
ROUTE SEC.
CLAY 69
FINAL PLANS

NE 1/4 NE 1/4 SEC. 6 T.50N. R.32W.

NW1/4 NW1/4 SEC. 5 T.50N. R.32W.

SW1/4 SW1/4 SEC. 32 T.51N. R.32W.

SE1/4 SW1/4 SEC.32 T.51N. R.32W.

NE1/4 NW1/4 SEC. 5 T.50N. R.32W.

ROUTE 10 (WINN ROAD)

WINNWOOD BEACH

BARNES ADDITION

LAKESIDE

WINNWOOD BEACH 2ND. ADDITION

SEE PLAN SHT. NO. 10 FOR RAMP PLAN & PROFILE
SEE SPECIAL SHT. NO. 7 & 8 FOR RAMP PAVING LAYOUT

384

FED.AID PROJ. NO.	STATE	FEDERAL PROJECT No.	TOTAL SHTS.	SHEET NO.	DESIGN DATE
5	MO	UI-9900		5A	
DIV. NO.		COUNTY		ROUTE	SEC.
4		CLAY		69	

FINAL PLANS

Right Lane Profile Only

PLATE 1 PLAN-PROFILE B. R. R. STANDARD
USE WITH STANDARD PLATES NOS. 1, 2, 3, 4
EUGENE DIETZEN CO.

PROFILE NOTE BOOK	BY	DATE
PLOTTED		
GRADES CHECKED		
B. M. NOTED		
STRUCTURE NOTES CHKD.		

PLAN NOTE BOOK	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		

383

SE 1/4 SW 1/4 SEC. 32
T. 51 N. R. 32 W.

NE 1/4 SW 1/4 SEC. 32
T. 51 N. R. 32 W.

NW 1/4 SE 1/4 SEC. 32
T. 51 N. R. 32 W.

P.I. 408+59.37 LT. LANE
P.I. 408+57.01 RT. LANE
Δ 9°00' LT.
D. 9°30'
R. 1145.92'
T. 500.32'
L. 1000.0'
SE 0.0

STA. 3+08.5 LT. LANE
Built 12"x66" RCP Pipe Culv.
Built C.B.O. R.B. Howell Lt.
Built 3.6E Drop Inlet Rt.

STA. 3+20.5 Brighton Ave.
Built 18"x40" RCP Pipe Culv.
Built 3.6 G. Drop Inlets Rt. & Lt.

STA. 3+90.5 Lt. Brighton To STA. 9+60.0 Rt. Ramp Q
Built 18"x70' RCP Pipe Culv. (Ext. to R.R. R/W)
Built 18"x137' RCP Pipe Culv. (Ext. to Outlet)
Built 16A Manhole

STA. 7+75 Brighton Ave.
Built 18"x 61' RCP Pipe Culv.
Built 3.6 G Drop Inlet Rt.

P.I. 418+36.22 LT. LANE
Δ 7925' LT.
D. 1°00'
R. 371.367'
T. 741.67'
SE 0.0

STA. 422+06.5 Lt. Lane
Built 18"x 163' RCP Pipe Culv.
Built C.B.O. Rt. Howell Lt.

R.R. Marker
STA. 427+00 Lt. Lane
Claycomo Relocation

STA. 430+23.84 Lt. Lane
Built 27"x84" RCP Pipe Culv. (Extends to R.R. R/W)
Built 18"x 70' RCP Pipe Culv. (Ext. to Outlet)
Built 3.6 G Drop Inlets Rt. & Lt.

STA. 434+50 Lt. Lane
Built 12"x 175' RCP Culv.
Built 16 G Pipe Inlets (Ext. to Outlet)
Rt. & Lt.

P.I. 420+49.74 LT. LANE
Δ 11°34' RT.
D. 1°00'
R. 5720.65'
T. 580.30'
L. 1156.67'
SE 0.0

P.I. 428+66.0 RT. LANE
Δ 3°17' LT.
D. 1°00'
R. 5729.65'
T. 164.21'
L. 328.33'
SE 0.0

STA. 430+23.84 LT. LANE BLD.
70'-(100'-120'-100' CONT. PL. GIR.)
69°-57'-32" LA SKEW
SEE DRWG. NO. L-835
SEE SPEC. SH. NO. 12 FOR BRIDGE APPR. SLABS
ROADWAY 28'
PAVING EXCEPT. 40G.25 BEGINS STA. 430+23.84

STA. 429+28 (30' LEFT) OF BLD. RETAINING WALL
SEE DRWG. NO. L-845

STA. 427+00 RT. LANE
Built 18"x 91' RCP Pipe Culv.
Built C.B.O. Rt. Howell

STA. 427+25 Lt. Lane
Built 18"x163' RCP Pipe Culv.
Built C.B.O. Rt. Howell

STA. 427+00 Lt. Lane
Built C.B.O. 3'-12"x 8'-0" Conc. Box
Skew 30° L.A.

STA. 422+00 Rt. Lane (Ended Brinker Ave.)
Built 68'-1.58" CMP Pipe Culv.
(Furnished by City of Kansas City)
(Laid by Feece Account)

STA. 422+00 Lt. Lane
Built C.B.O. 2'-12"x 8'-5" Conc. Box
Skew 33° R.A.

STA. 4+04.37 (Brighton Ave.) Bld.
58'-70'-70'-58' Cont. 1-Beam Spans
41°-25'-30" RA Skew-See Drwg. No. L-835
44' Rdwy + 2-5' Sidewalks
See Spec. Sh. No. 12 for Bridge Appr. Slab
Paving Except. 26L.05' Begins Sta. 4+04.77

NOTE: See Spec. Sh. No. 7 & 8 for Ramp & Brighton Ave. Paving Layout
See Plan Sh. No. 10 for Alignment & Profiles of Ramps P&Q & Brighton Ave.

NOTE: See Spec. Sh. No. 9 & 10 for Paving Layout at Jct. with Claycomo Reloc.
See Plan Sh. No. 8 for Alignment & Profiles of Ramp R & Claycomo Reloc.

ROUTE 10 (WINN ROAD)
18' P.C.C. PAV'T.
5' GAS
J. WINN AC. 1.832 R/W
MARY C. DILLON AC. 2.746 R/W
Fred C. Forrate. Ac. 0.283 R/W
Wm. H. Clements Ac. 1.577 Entire Prop.
Chas. J. Hoffman AC. 0.096 R/W AC. 0.144 ST.
Lela B. Ronald A. Baimley
Nellie Murphy Est.
John L. Leonard
L.O. JONES AC. 0.0295
William H. Kirk Ac. 0.760
Harry G. Carmichael Ac. 0.648
Marvin W. Sims Ac. 0.222
B.C. Williams Ac. 0.185
C.W. Pennington Ac. 0.200
Bertha E. Gibson Ac. 0.281
H.G. Carmichael Ac. 0.618
Herschel Reese Ac. 0.285
Chas. J. Reese Ac. 0.403
C.R. McClay Ac. 0.233
R.E. Dunkin Ac. 0.223
G.E. Waters Ac. 0.209
C.W. Ulrey Ac. 0.206
E.T. Martin Ac. 0.197
C.O. Beck Ac. 0.189
W.W. Hansford Ac. 0.219
C.I. Bradley Ac. 0.181
B.N.T. Allen AC. 0.338
D.E. Collins Ac. 0.188
Adams Ac. 0.381
H.R. Lewis Ac. 0.243
J.D. Williams Ac. 0.425
R.W. Runner Ac. 0.331
D.N. Glenn Ac. 0.176
WINNWOOD BEACH 2ND ADDITION
KANSAS CITY SUBURBAN ACREAGE ESTATES
Left Lane Claycomo Reloc.
Rt. Lane Claycomo Reloc.
Ditch Bl.
Conc. U Gutter
Perm. Ease.
Constr. Ease.
Sec. Ln. Ditch
15" R with HDW'll Rt.
15" R with HDW'll Lt.
12" Pipe
18" Pipe
24" Pipe
Conc. U Gutter
357.0' AH P.C. 423+69.44
3400 C/L Sewer
10" Sewer Pipe by Others
Brighton Ave.
Winnwood Blvd.
Brighton Lake
Water
Gas
Manhole
Inlet
Fence
Power Pole
Guy Wire
Sign
Mailbox
Tree
Bush
Shed
Pond
Bridge
Culvert
Ditch
Creek
Road
Drive
Walk
Curb
Gutter
Pavement
Right of Way
Property Line
Section Line
Quarter Section Line
Center Line
Lane Line
Edge of Water
Top of Bank
Toe of Slope
Top of Slope
Fence Line
Power Line
Telephone Line
Gas Line
Water Line
Sewer Line
Storm Sewer

DIST. NO.	STATE	PROJECT	YEAR	STATE NO.	SHEET
5	MO.	U1-99(1)		6A	
DIV. NO.	COUNTY			ROUTE	SEC. NO.
4	CLAY			69	

FINAL PLANS

PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	GRADES CHECKED		
	RT. OF WAY CHECKED		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	GRADES CHECKED		
	STRUCTURE NOTATING CHKD		

3 & 7

Right Lane Profile only.

ROADWAY CL A EXCAVATION	182,255 C.Y.
UNDERGRADE CL A EXCAVATION	1,303 C.Y.
TOTAL Cut COMPACTION	1,103 C.Y.
Unauth. CL A	280 C.Y.
TOTAL EMBANKMENT	164,475 C.Y.
BACK FILL	1,731 C.Y.
COMPACTION EMBANKMENT	170,351 C.Y.
WASTE EMBANKMENT	832+147 C.Y.
OVER HAUL	1,730,000 C.Y.

FROM STA 400+00

+1.00 %

P.C. 422.46 B.L.

400 V.C.
M.O. 0.50

P.T.

0.0 %

405 6 7 8 9 410 1 2 3 4 5 6 7 8 9 420 1 2 3 4 5 6 7 8 9 430 1 2 3 4 5

950 940 930 920 910

950 940 930 920 910 900 890 880

930 920 910 900 890

ROADWAY CL A EXCAVATION	= 78,874 C.Y.
UNDERGRADE CL A EXCAVATION	= 928 C.Y.
TOTAL EMBANKMENT	= 73,737 C.Y.
BACK-FILL	= 947 C.Y.
COMPACTION EMBANKMENT	= 73,638 C.Y.

TO STA 438+00

+1.63 %

400 V.C.
M.O. 0.82

0.0 %

P.C. 422.46 B.L.

LFL 918.5 REL 918.7

LFL 920.0

LFL 919.7

PLATE 1—PLAN—PROFILE O. P. R. R. E. STANDARD
KEUFFEL & ESSER CO. NEW YORK

MADE IN U.S.A. 24272-99

488

UI-99(7) 7

CLAY 69

FINAL PLANS

LEFT LANE
P.I. 438+83.72
Δ 4°09' LT.
D. 1°00'
T. 207.61'
L. 415.0'
R. 5729.65'
S. 0.0

SE 1/4 NE 1/4 SEC. 32
T. 51N. R. 32W.

RIGHT LANE
P.I. 447+77.0
Δ 8°34' LT.
D. 1°00'
T. 429.15'
L. 856.87'
R. 5729.65'
SE MATCH PRES PAV'T.

PRES. PAV'T.
P.I. 288+08.5
Δ 11°51' LT.
D. 1°00'
T. 594.8'
L. 1185.0'
R. 5729.65'

NE 1/4 NE 1/4 SEC. 32
T. 51N. R. 32W.

NW1/4 NW1/4 SEC. 33
T. 51N. R. 32W.

VIVION RD.

D.N. Gunn

1/4 LINE SEC.

P.C. 436+78.11

P.T. 440+91.11

8" GAS STA. 436+52.5 PROJ. UI-99(7) 15.92' RT. STA. 18.8+84 MAP 20 C

8" WATER

R/W MARKER IN PLACE

P.C. 443+47.85 RT. LANE

12" WATER

P.T. 452+04.52

452+75.20 ± ANGLE 193°-08.35"

APPR. SEC. LINE

N. 53°17'51" E.

N. 69°08'21" E.

U.I.P. +90.5

+00 CL. A UNDERDR.

N. 45° 51' 21" E.

GUARD RAIL

N. 37°17'51" E.

STREET

MAPLE

ALBANY

PARK

COMPTON

ADDITION

KANSAS CITY SUBURBAN ACREAGE ESTATES

B.N. Allen
D.E. Collins
M.W. Gibb Ac. 0.108
P.T. Peak Ac. 0.132
Zuma Williams Ac. 0.095
W.E. Moon Ac. 0.124
C.L. Smith
B.L. Smith

STA. 440+52.5 RT. LANE
END PROJ. UI-99(7) (For State Length)

NE1/4 SE1/4 SEC. 32
T. 51N. R. 32W.

+66 P.E. LEAVE IN PLACE

+00 P.E. LEAVE IN PLACE

STA. 440+52.5 IS A POINT 2462' SOUTH & 680' WEST OF N.E. COR. SEC. 32 T. 51N R. 32W

STA. 442+10 RT. LANE
BUILT 18"x61' RCP PIPE CULV. (EXTENDED ETC)

STA. 445+38 RT. LANE
D.A. 8AC OF N.A. LAND
BUILT 24" & 18" RCP PIPE CULV.
JCT BOX
SEE SPEC. SHT. NO. 9
BUILT C250 R.B. Howell Jr.

SW 1/4 NW1/4 SEC. 33
T. 51N. R. 32W.

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.
DATE
BY
GRADES CHECKED
AS BUILT CHECKED
STRUCTURE NO. AT NS CH NO.

Drawing 0 21 13 12 0 2 6 1 1 2 1 2 1 2 2 3 4 4 3 2 1
Seeding 13 6 7 7 0 6 1 1 2
Rent. & Mulch 10014.50 9660.00 8400.00 6115.00 2524.00 5540.00 11900.00 3150.00 3290.00 2650.00 2220.00 1650.00 1650.00 1350.00 1400.00 920.00

Vivion Rd.: 15,394.66

ROADWAY CU.YD. EXCAVATION 17756 C.Y.
TOTAL EMBANKMENT 2741 C.Y.
BACK FILL 23 C.Y.
COMPACTION FOR PAVEMENT 2932 C.Y.
OVERHAUL 380 C.Y.

LEFT LANE
2.12% -2.12%

Right LANE
1.69% -2.16%

1000' VPC
H.O. 4.94

Bm# 12-Q ON LT. EDGE PAVEMENT 13.8' LT. STA. 435+00
ELEV. 930.78

103
49
8,542.16
54.16

PLATE 1 - PLAN-PROFILE (R.P.B.S.) STANDARD
KEUFFEL & ESSER CO. N.Y.C. U.S.A.

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UI-99(7) 8

CLAY 69

FINAL PLANS

LT LANE
PI 416+00.32
Δ 9°00' LT
D 2°
T 225.47
L 450.0
R 2864.93
SE .03'/FT
L_s 150'

RT LANE
PI 432+50.61
Δ 6°53'16" LT
D 1°
T 344.81
L 688.78
R 5729.65
SE 0.0

RAMP R
PI 172+62.41
Δ 50°-42'
D 15°
T 180.97
L 338.0
R 381.97
SE .08'/FT.

RT LANE
PI 432+05.00
Δ 20°12'14" LT
D 2°
T 510.42
L 1010.19
R 2864.93
SE .03'/FT.
L_s 150'

CONNECTION
PI 174+68.76
Δ 32°59'
D 18°
T 94.22'
L 183.94'
R 318.31'
SE .02FT/FT

LT LANE
PI 435+89.78
Δ 18°05'30"
Δc 14°20'30"
Dc 2°30'
θ_s 1°32'30"
P 0.41'
Lc 573.67'
L_s 150'
T_s 439.935
E_s 29.27
R_c 2291.83
S 0.04'/'
L_T 150'

P.C. 414+84.85
P.T. 419+14.65
P.C. 420+03.80
+75 CL. A UNDERDR.
426+84.58
P.C. 173+74.57
P.T. 174+39.44
+30 R/W
+55 R/W
RAMP R
P.C. 431+40.85
P.T. 435+14.74
R. 318.31
P.T. 175+57.81
176+67.78 = 431+29.69
81°
432+75.65 RT. LANE = 432+64.34 LT. LANE
173+00.00 = 173+00.00 CONN.
LT. LANE RTE. 69 TR
R/W AS SECURED ON RTE. 69 TR PROJ. U-4114
25' PCCP
RT. LANE RTE. 69 TR PROJ. U-4114
CL 430+23.23
CL 430+39.21
CL 430+48.80
TRANS. STA.
RT. LANE RTE. 69 TR 22' PCCP
LT. LANE CLAYCOMO RELOC.
LT. LANE RTE. 69
RT. LANE CLAYCOMO RELOC.
RT. LANE, RTE. 69
PCC
415
420
425
430
435

STA. 429+28 TO STA. 430+53 AT 30' LT. C/L LT. LANE CLAYCOMO RELOC.
RETAINING WALL: FOR DETAILS SEE OTHER DRWGS.

NOTE: FOR ALIGNMENT, TOPOGRAPHY, PAVING LAYOUT, ETC., SEE OTHER PLAN-PROFILE AND SPECIAL SHEETS.

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
ALL R/W PROCURED
NOTE ZOOM
NO.
DATE
BY

PROFILE
SURVEYED
PLOTTED
VERTICAL CURVES CHECKED
ALL R/W PROCURED
NOTE ZOOM
NO.
STRUCTURE NOTES NO CHANGE
DATE
BY

389

488

LOCATION SECT. NO.	STATE	FEDERAL PROJECT No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	UI-99(7)		9	
TRF. SEC.	COUNTY		ROUTE	SEQ.	
A	CLAY		69		

FINAL PLANS

CHOUTEAU TRFKWY

SW1/4 NE 1/4 SEC. 6
T. 50N. R. 32W.

NW1/4 SE1/4 SEC. 6
T.50N. R.32W.

SE 1/4 NE1/4 SEC. 6
T.50N. R.32W.

RAMP K
P.I. 362+77.99
Δ 4°39'46" LT.
D 4°
T. 58.32'
L. 116.57'
R. 1432.39'
SE 0.03'/FT
L_T 150'

RAMP L
P.I. 362+67.40
Δ 5°04'46" RT.
D 1°
T. 253.86'
L. 507.39'
R. 5729.68'
E. 5.62'
SE 0.0

RAMPS L & M
PI 372+82.10 RAMP L - 372+53.83 RAMP M
Δ 33-18-17
D 3-30
T 468.72
L 951.71
R 1637.28
SE 0.03'/FT.
L_T 150'

CURVE DATA - CHOUTEAU TFKY.
P.I. 63+58.70
Δ 35°40' LT.
D. 2°00'
T. 921.61'
L. 1783.33'
R. 2864.93'
S.E. 0.0'/FT.

STA. 0+67 CONN. - ASKEW ST. TO CHOUTEAU
D.A. 1.35 AC. OF 0.6 LAND
C 529 5'x5' CONC. CULV.

STA. 3+00 45TH ST.
D.A. 8 AC. OF 0.6 LAND
BLD. 24" PIPE CULV. WITH HDW'LLS

CURVE DATA
P.I. 378+10.02 LT. LANE
Δ 26°14'05" LT.
D. 2°00'
T. 867.61'
L. 1311.80'
S.E. .03'/FT.
L_T 150'

P.I. 378+22.80 RT. LANE
Δ 26°14'05" LT.
D. 1°57'46.7959"
T. 680.19'
L. 1338.53'
R. 2918.93'
S.E. .05'/FT.
L_T 150'

RAMP M
P.I. 380+29.46
Δ 21°54'38" LT.
D 3°
T. 369.73'
L. 730.35'
R. 1910.08'
E. 35.46'
SE 0.025'/FT
L_T 150'

RAMP N
P.I. 391+86.5
Δ 5°44'35" LT.
D 2°00'
T. 143.70
L. 287.19
R. 2864.93
SE 0.016'/FT.
L_T 150'

STA. 70+80 CHOUTEAU TRFKWY
D.A. 140 AC. OF 0.6 LAND
BLD. C 529 5'x5' CONC. CULV.
SKEW 57°56' R.A.

STA. 69+00 CHOUTEAU TRFKWY.
18" PIPE CULV. WITH HDW'LLS

STA. 70+45 CHOUTEAU TRFKWY
15" PIPE CULV. WITH HDW'LL.
SKEW 30° L.A.

STA. 74+83 CHOUTEAU TRFKWY.
18" PIPE CULV. WITH HDW'LL.

STA. 373+11.5 RAMP N
15" PIPE CULV. WITH HDW'LL RT.
CONNECT TO DROP INLET LT.

GOLDEN OAKS
WOOD HILL ANNEX
N. WALROND
N. INDIANA
45TH ST.
44TH ST.
BASELINE RAMP K
BASELINE RAMP L
BASELINE RAMP M
BASELINE RAMP N
ASKEW ST.
MONROE
CLEVELAND
WINNWOOD
WINNWOOD BLVD.
LAKE
CHOUTEAU DRIVE
45th St Connection MONROE to ASKEW

PLAN	SUBMITTED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	ELEVATIONS CHECKED	
	NOTE BOOK	
	NO.	

PROFILE	SUBMITTED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NOTE BOOK		
	NO.	STRUCTURE NOTAT NO CHNO.	

Drawing 4 1 8 7 8 8
Quantities 3 3 1 3 2 1

10 9 2 5 4 1 6
5 1 1 4 3 1 5

ROADWAY CLR EXCAVATION = 3988 C.Y.
TOTAL EMBANKMENT = 1711 C.Y.
BACK FILL = 25 C.Y.
COMPACTION EMBANKMENT = 1,736 C.Y.

54 - Connection -
14 Askew to Chouteau

26 - Connection -
8 45th St - Monroe - Askew

156
58

3965

FEDERAL ROAD DIST. NO.	STATE	FEDERAL AID PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	UI-990		9A	
DIV. NO.	COUNTY			ROUTE	SEC. NO.
4	CLAY			69	

FINAL PLANS

PLAN		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

PROFILE		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	GRADES CHECKED		
	R. WAL NOTED		
	STRUCTURE NOTES CHECKED		

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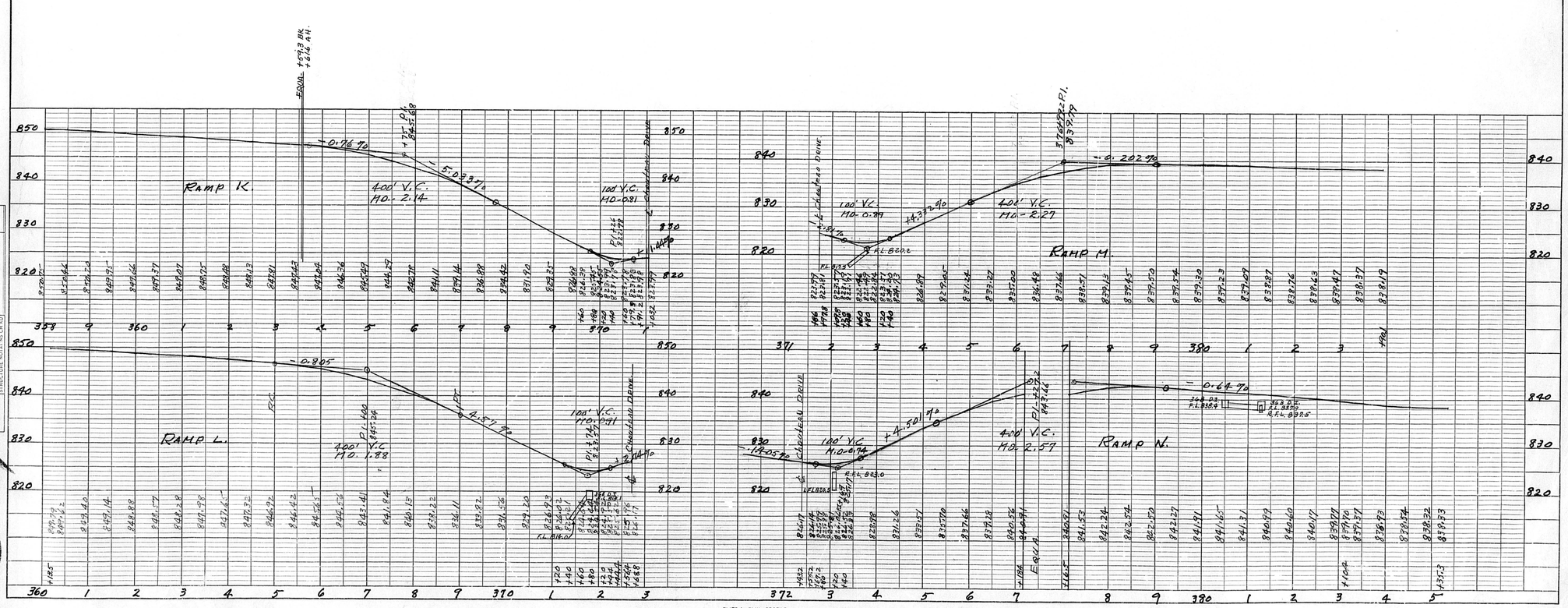


PLATE 1—PLAN—PROFILE O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

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UI-99(7) 10

CLAY 69

FINAL PLANS

STA. 397+75 RAMP P
BLD. 12" PIPE CULV. WITH HDW'LL LT.
DROP INLET RT.

RAMP P
P.I. 398+24.34
Δ 2-18-40
D 1°
T 115.57
L 231.11
R 5729.58
SE 0.0

STA. 399+50 RAMP P
BLD. 12" PIPE CULV. WITH HDW'LL. LT.
DROP INLET RT.

EQUATION
407+65.53 BK = 393+50 AHD.

PRES. RTE. 10 18' PCCP. U.I.P.

RAMP P

RAMP Q

24"P WITH HDWLS

36G D.I.

24"P. WITH HDW'LL. LT

M.H. 16 A

24"P.

P.C. 403+58.05
P.C. 403+56.69

405+64.18 =
191+36.59 RTE. 10

P.T. 413+56.69
413+52.05

P.C. 414+64.85

12"P. — 75' CL. A UNDERDR.
36G D.I.

407+63.05 BK =
P.C. 393+47.64 AHD.

407+65.41 BK =
P.C. 393+50.0 AHD.

P.C. 397+08.77

P.T. 399+39.88

401+96.6

P.T. 403+50.0
P.T. 403+49.64

P.C. 408+24.45

15"P.

16A M.H.

30'

15"P.

12"P.

+50 CL. A UNDERDRAIN

+49.5 - 36G D.I.

AVE.

412+12.0 RAMP Q =
1+44.0 N. BRIGHTON

1+44.0 BLD. PAVED APPR.
SEE SPEC. SH. NO. 9

3.50 BLD. PAVED PE.
SEE SPEC. SH. NO. 9

P.T. 411+48.70

N. BRIGHTON

48 TH. ST.

SEE PLAN SH. NO. 6 FOR BRIDGE INFORMATION ON N. BRIGHTON

RAMP Q
P.I. 397+73.00
Δ 9-00
D 1-03-46.45
T 425.36
L 848.96
R 5404.71
SE 0.0

P.I. 398+50.32 LT. LANE
P.I. 398+41.96 RT. LANE
Δ 6°00' RT.
D 0° 30'
T 500.32'
L 1000.0'
R 11459.2'
SE 0.0

RAMP Q
PI 409+91.05
Δ 32-25-30
D 10
T 166.60
L 324.25
R 572.96
SE 0.07'/FT.
L_T 200'

PI 408+58.37 LT LANE
PI 408+57.01 RT LANE
Δ 5°00' LT.
D 0° 30'
T 500.32'
L 1000.0
R 11459.2
SE 0.0

NOTE: FOR DETAILS OF R/W ETC.
SEE PLAN SHEET NO. 5 & 6
SEE SPECIAL SHEET NO. 7, 8 & 9 FOR PAVING
LAYOUT OF NO BRIGHTON & OTHER INTERSECTION

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / R/C OF MAT CHECKED — BY — DATE
NOTE SHOW ALL REVISIONS — NO. —

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / R/C OF MAT CHECKED — BY — DATE
NOTE SHOW ALL REVISIONS — NO. —
STRUCTURE NOTE NS CHKD.

RAMP P

RAMP Q

North Brighton

Bridge

PLATE 1 PLAN-PROFILE

3-27

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