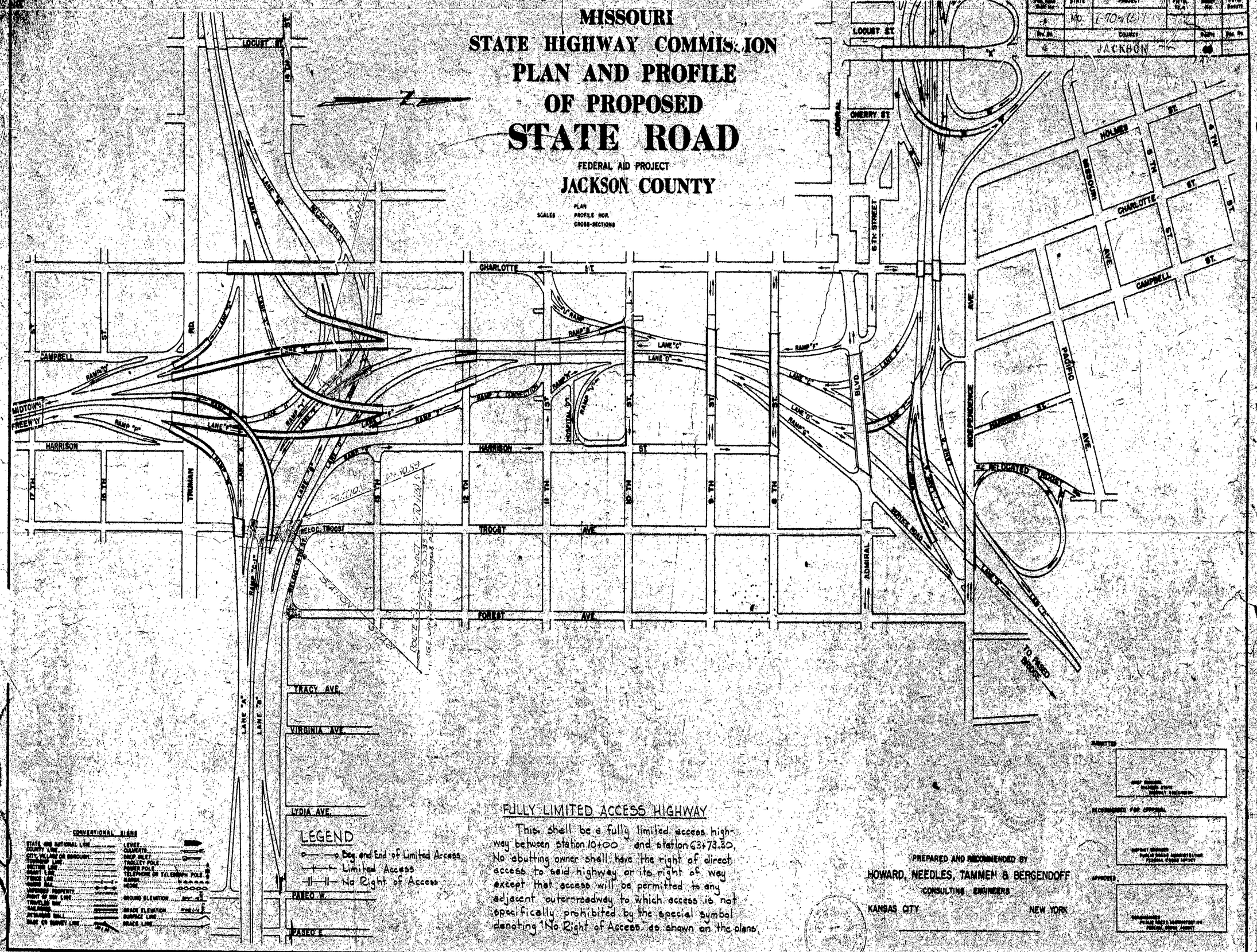
MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD

FEDERAL AID PROJECT

JACKSON COUNTY

SCALES PLAN
PROFILE HOR.
CROSS-SECTIONS

	STATE	PROJECT			
	MO.	1-70-4(3)			
	COUNTY				
	JACKSON				



CONVENTIONAL SIGNS

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

LEGEND

- Beg. and End of Limited Access
- Limited Access
- No Right of Access

FULLY LIMITED ACCESS HIGHWAY

This shall be a fully limited access highway between station 10+00 and station 63+73.30. No abutting owner shall have the right of direct access to said highway or its right of way except that access will be permitted to any adjacent outer roadway to which access is not specifically prohibited by the special symbol denoting "No Right of Access" as shown on the plans.

PREPARED AND RECOMMENDED BY
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

SUBMITTED

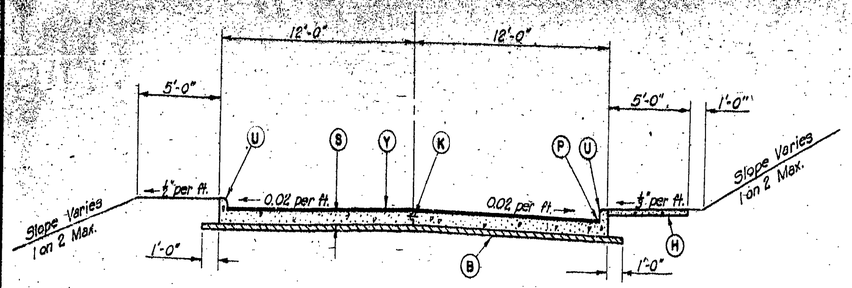
RECOMMENDED FOR APPROVAL

APPROVED

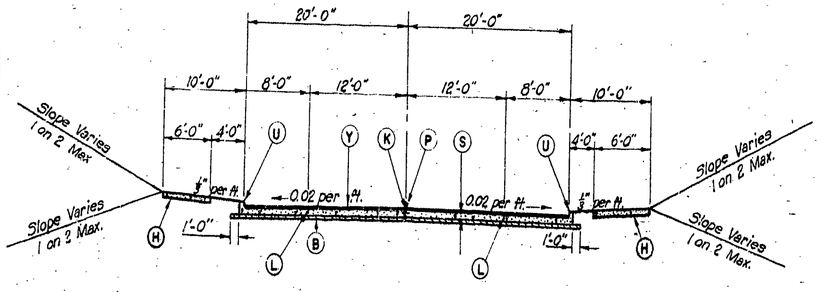
FED. ROAD PROJ. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	I-70-1(5)1			
DIST. NO.	COUNTY		ROUTE	SEC.	
4	JACKSON		F.A.I.		

CROSSTOWN FREEWAY
14TH STREET INTERCHANGE

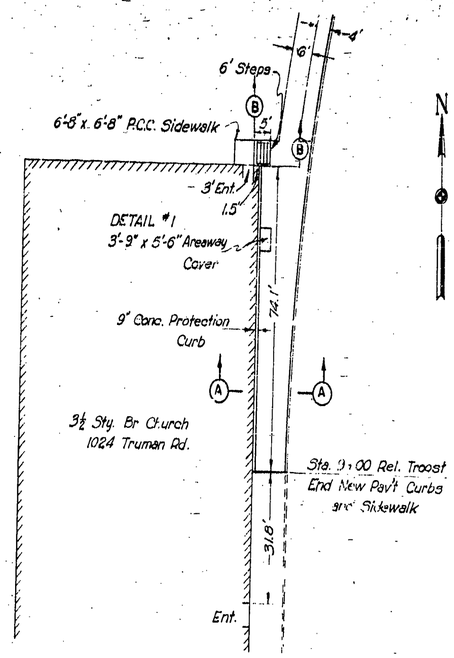
NOTE:
Cost of furnishing and placing reinforcing bars in protection curb across areaway shall be included in the price bid for Concrete Protection Curb, per lineal foot.
Cost of reinforced sidewalk over areaway shall be included in the price bid for Concrete Sidewalk, per square yard.



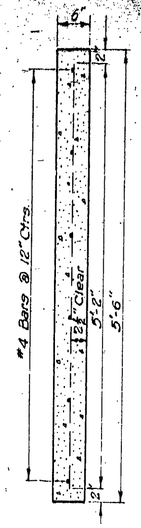
SER. STREET "B"
(Rel. 14th St.)
Scale: ½"=1'-0"

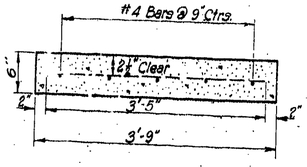


REL. TROOST AVE.
Scale: ⅛"=1'-0"



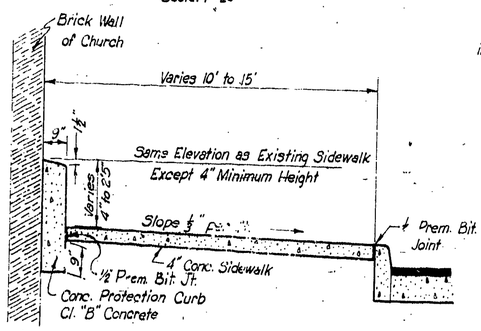
PLAN
Scale: 1"=20'



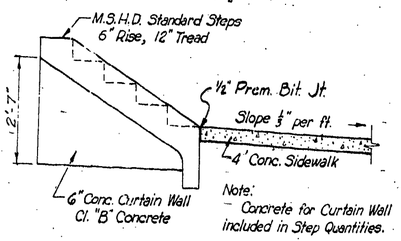


DETAIL #1
REINFORCED CONCRETE SIDEWALK OVER AREAWAY
Scale: 1"=1'-0"

QUANTITIES	
Steel	30.95 Lb.
Concrete	0.38 Cu. Yd.

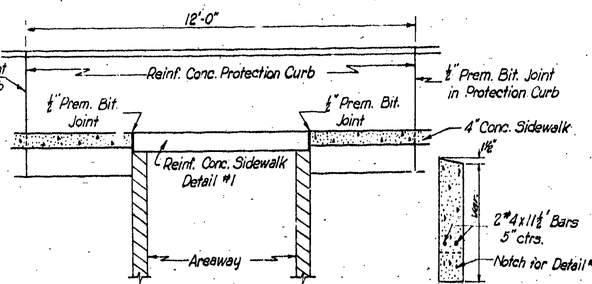


SECTION A-A
Scale: ½"=1'-0"



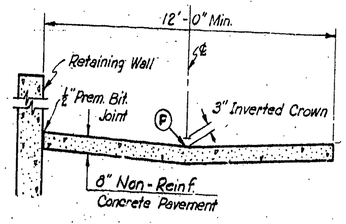
SECTION B-B
Scale: ½"=1'-0"

SIDEWALK, CURB & STEP TREATMENT
FOR NORTH END OF CHURCH
AT 1024 TRUMAN ROAD

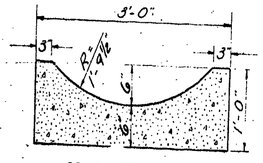


AREAWAY DETAILS
Scale: ½"=1'-0"

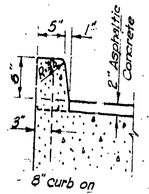
REINFORCED CONC. PROTECTION CURB



ALLEY
Scale: ⅜"=1'-0"

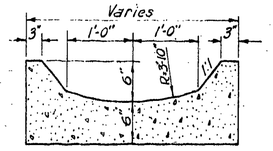


CONCRETE GUTTER
TYPE "A"
Scale: 1"=1'-0"

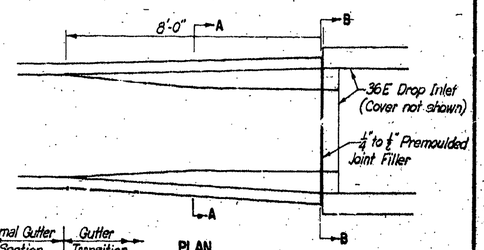


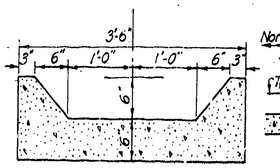
TYPE "A" CURB

Note:
Dowels shall be used when curb is not constructed monolithically with the Pavement. See Std. Specifications. Dowels: #4 ϕ x 10" bars, spaced 2'-0" centers.



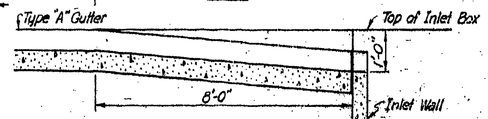
SECTION "A-A"





SECTION "B-B"

Normal Gutter Section | Gutter Transition | PLAN



LONGITUDINAL SECTION

Note:
Transition shall be included in the price paid per linear foot for Type "A" Gutter.

TYPE "A" GUTTER TRANSITION AT 36E DROP INLET
No Scale

LEGEND

- (B) 4" Compacted granular base material.
- (H) 4" Conc. Sidewalk
- (L) (Dowels omitted) Longitudinal joint
- (P) Profile grade
- (S) 8" Conc. Base Course
- (U) Curb Type "A"
- (Y) 2" Asphaltic concrete Type "C"
- (K) Standard Longitudinal Joint (with dowels)

TYPICAL SECTIONS AND MISCELLANEOUS DETAILS

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

DESIGNED	A.J.H./A.P.W.	DATE	3-10-58
CHECKED	B.R.D.	DATE	3-10-58
TRACED	B.M.O.	DATE	3-10-58
SCALE	As Shown		

LOCATION 14th St. Interchange on Southeast Freeway

TYPE Grading, Culverts, Bridges and Retaining Walls

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	I-70-1(5)1		2-A	1 of 2
DIST. No.	COUNTY			ROUTE	SEC. No.
4	JACKSON			FAI-1	

EXCAVATION

Station	to Station	Class A	Comp. Cut	Comp. Emb.	Remarks
N-17410	N-17320				
E-10250	E-11260	29,722	—	10,580	Bridge No's. A-247 & A-248
E-11490	E-11370	1540	—	14096	Bridge No's A-249, A-250 & A-251
E-11750	E-12098	4,106	635	56	Service Street B
73+61	78+41	C	—	15755	Bridge No. 288 (Paseo Bridge)
0+39	9+87	21,102	1751	0	Relocated Troost Avenue
Sub-Total		56470	2386	40487	
Basement Vol.		-2990		+5080	
Totals		53480	2386	45567	

ADJUST MANHOLES TO GRADE

Struct. No.	Location		Raise	Lower	Remarks
E-1	14th St.	East of Forrest	0.3'		See Service St. B
E-2	Forrest Ave.	So. of 14th	2.75'		See Drainage Plan
E-3	Sta 8+20	Troost Ave.		2.0'	See Plan
310	Sta 6+10	Troost Ave.	0.7'		
	Total		4		

CONCRETE JUNCTION CHAMBERS

Struct. No.	Location		Cl. 3	Cl. B	Reinf.	Remarks
336	N-16779	E-12050	115	19.2	2180	Includes 4.3 C.Y. Invert Conc.
337	N-16528	E-12051	108	19.2	2180	Includes 4.6 C.Y. Invert Conc.
	Totals		223	38.4	4360	

LENGTH OF PROJECT

End of Project	Station	12+50.59	E. Lane
Beginning of Project	Station	10+74.21	E. Lane
Apparent Length		176.38	Feet
Equations and Exceptions:	None		
Total Corrections	None		Feet
Net Length of Project		176.38	Feet
State Length =		0.033	Miles
Federal Length =		0.033	Miles

FEDERAL LENGTH
Same as State Length (No exceptions)
See above

DROP INLETS

Inlet No.	Station	Location	Side	Std. Type	Size	"D"	Cl. B	Reinf.	Cl. 3	Grates & Bearing Plates Type	Width	Weight	Type Cover	Spillway	Pipe Openings	Remarks
303	4+25	Ramp "X"	59' Lt.	36E	3'x2'	4'-6"	1.25	114	8	—	—	—	A	2	1-18" 1-18" 1-18"	2-Spillways 1-4'x15" R.C.C.P. Stub
304	4+45	Ramp "X"	13' Rt.	36E	3'x2'	4'-6"	1.34	114	8	—	—	—	A	2	1-12"	2-Spillways
305	27+00	Lane "B"	17' Lt.	36E	3'x3'	4'-0"	1.44	124	8	—	—	—	A	2	1-15" 1-18"	2-Spillways 1-4'x15" R.C.C.P. Stub
313	4+38	Service St. B	Baseline	36B	1½x4'	2'-6"	1.00	174	5	I-4	4	307	—	—	1-12"	
314	3+50	Reloc. Troost	20' Rt.	36B	1½x4'	3'-0"	1.09	197	6	I-4	4	307	—	—	2-12"	1-6" Underdrain
315	20+29	Lane B	Rt.	36B	1½x4'	2'-6"	1.00	178	5	I-4	4	—	—	—	1-18"	No Frame & Grate
316	13+66	Lane E	Baseline	36G	1½x2'	3'-6"	.76	124	5	I-2	2	—	—	—	1-12"	No Frame & Grate
317	1+00	Ramp C-1	Baseline	36B	1½x4'	4'-0"	1.30	218	7	I-4	4	—	—	—	2-18" 1-18"	1-4'x12" R.C.C.P. Stub; 1-4'x12" R.C.S.P. Stub, No Frame & Grate
318	0+40	Ramp C-1	11' Rt.	36G	1½x2'	3'-0"	.62	108	4	I-2	2	156	—	—	2-18"	1-18" Curb Inlet; 2-6" Underdrain
319	6+20	Reloc. Troost	20' Lt.	36B	2'x4'	5'-0"	1.69	256	10	II-4	4	366	—	—	2-15"	
320	6+20	Reloc. Troost	20' Rt.	36B	2'x4'	6'-0"	1.93	282	12	II-4	4	366	—	—	1-15" 1-18"	1-6" Underdrain
322	8+08	Reloc. Troost	20' Rt.	36B	1½x4'	2'-6"	1.00	174	5	I-4	4	307	—	—	1-12"	1-6" Underdrain
323	0+37	Reloc. Alley	15' Lt.	36E	3'x2'	3'-6"	1.17	95	4	—	—	—	A	1	1-12"	1 Spillway
324	8+25	Reloc. Troost	20' Lt.	36B	1½x4'	3'-6"	1.22	194	7	I-4	4	307	—	—	2-12"	
325	2+25	Ser. St. B	Rt.	36B	1½x4'	2'-6"	1.00	174	5	I-4	4	307	—	—	1-12"	
326	2+25	Ser. St. B	Lt.	36B	1½x4'	3'-0"	1.10	194	6	I-4	4	307	—	—	2-12"	
327	1+26	Ser. St. B	34' Lt.	36E	3'x2'	3'-6"	1.17	95	5	—	—	—	A	1	1-12"	1 Spillway
328	1+03	Forrest Ave.	Rt.	36B	1½x4'	2'-6"	1.00	174	5	I-4	4	307	—	—	1-12"	
329	0+90	Forrest Ave.	Lt.	36B	1½x4'	2'-6"	.98	181	5	I-4	4	307	—	—	2-12"	
330	1+20	Ser. St. B	46' Rt.	36E	3'x2'	8'-0"	2.16	184	13	—	—	—	A	1	1-15"	1 Spillway
331	1+19	Ser. St. B	Rt.	36G	2'x2'	3'-0"	.69	116	5	II-2	2	186	—	—	1-15" 1-15" 1-18"	1-24" Curb Inlet
332	1+19	Ser. St. B	Lt.	36G	2'x2'	4'-6"	.93	153	7	II-2	2	186	—	—	2-12" 2-18"	1-24" Curb Inlet
333	0+10	Ser. St. B	Lt.	36B	1½x4'	2'-6"	1.00	174	5	I-4	4	307	—	—	1-12"	
334	0+10	Ser. St. B	Baseline	36B	1½x4'	2'-6"	1.00	174	5	I-4	4	307	—	—	1-12"	
					Totals		27.84	3971	155			4330				3 - Curb Inlets

MANHOLES

Manhole No.	Station	Location	Side	"D"	Size	Cl. B	Reinf.	Frame & Cover	Cl. 3	Pipe Openings	Remarks
301	7+45	Ramp X	33' Lt.	10'-3"	4'x4'	5.12	408	1	34	1-12" 2-15"	1-4'x12" R.C.S.P. Stub
302	5+75	Ramp X	25' Lt.	7'-6"	4'x4'	3.97	346	1	25	2-12" 1-15" 1-18"	1-4'x12" R.C.C.P. Stub; 1-4'x12" R.C.C.P. Stub
307	3+00	Reloc. Troost	3' Rt.	8'-3"	4'x4'	4.31	352	1	21	2-18"	
308	3+50	Reloc. Troost	38' Rt.	7'-0"	4'x4'	3.78	320	1	20	1-12" 2-18"	
309	4+40	Reloc. Troost	45' Rt.	5'-6"	4'x4'	3.18	290	1	16	1-12" 2-18"	
310	6+21	Reloc. Troost	44' Rt.	7'-6"	4'x4'	3.87	346	1	21	1-12" 2-18" 1-24"	
311	7+90	Reloc. Troost	45' Rt.	10'-6"	4'x4'	5.11	403	1	26	2-24"	
				Totals		*29.34	2465	7	163		

*3" Of Additional Conc. In The Inverts Of Each Manhole

CONCRETE STEPS

Station	Location	Side	No. Steps	Width	Slope	Cl. B	Reinf.	Remarks
[illegible]+04	Reloc. Troost	Lt.	5	4'	3/1	0.74	36	
[illegible]+21	Reloc. Troost	Rt.	5	6'	2/1	1.10*	48	*Includes curtain wall
Totals						1.84	84	

4" PIPE STUBS FOR FUTURE CONN.

Struct. No.	R.C. Culvert 12"	R.C. Culvert 15"	R.C. Sewer 12"	Remarks
30[illegible]	—	—	4'	
30[illegible]	8'	—	—	Excavation included
30[illegible]	—	4'	—	with structures
305	—	4'	—	
[illegible]	4'	—	4'	
Totals	12'	8'	8'	

CLASS A UNDERDRAINS (TYPE 1)

Station	Location	Side	Lgth Long	Lgth Lat	Remarks
3+48	Reloc. Troost	Trans.	—	50	
6+06	Reloc. Troost	Trans.	—	48	
0+45	Ramp C-1	Trans.	—	36	
4+34	Reloc. Troost	Trans.	—	52	
4+30 to 6+49 Troost	Reloc. Troost	Rt.	169	—	
5+20	Reloc. Troost	Trans.	—	52	
6+90	Reloc. Troost	Trans.	—	66	
7+84	Reloc. Troost	Trans.	—	50	
8+45	Reloc. Troost	Trans.	—	50	
	Totals		169	404	
	Pay		573	Lin. Ft.	

R.C. CULVERT PIPE & R.C. SEWER PIPE (* Denotes Sewer Pipe)

Pipe No.	Struct.	to Struct.	12"	15"	18"	24"	30"	Cl. 3
301	Exist. M.H.	301		62				127
302	301	302		160				309
303	302	Exist. 210			121			246
304	Exist. 210	303			19*			18*
305	303	304	75					74
306	305	Exist. 211			72			69
308	307	308			62			72
309	308	309			88*			98*
310	309	310			178*			184*
311	310	311				160*		297*
312	311	E-3				46		88
313	313	314	35					15
314	314	308	16					10
315	315	309	64					80
316	316	310	75					105
317	317	318		61				46
318	318	319		48				27
320	319	320		32				28
321	320	310			24			25
323	322	E-3	16					6
324	323	324	15					7
325	324	E-3	23					14
326	325	326	16					6
327	326	332	108					66
328	328	329	36					13
329	329	331	62					36
330	330	331		43*				50*
331	331	332			22			11
332	327	332	14					5
333	332	E-2			85*			116.5*
334	334	E-1	12					6
335	333	E-1	11					6
336	336	337					232	832
Sub-Total R.C.C.P.			578	363	301	46	232	3092.5
Sub-Total R.C.S.P.			—	43*	370*	160*	—*	
Stubs			8'* & 12'	8'				
Total R.C.C.P.			590	371	301	46	232	
Total R.C.S.P.			8'	43*	370*	160*	—*	

4" CONCRETE SIDEWALK

Station	to Station	Location	Side	Width	Length	S.Y.	Remarks
1+22	9+00	Reloc. Troost	Rt. & Lt.	Varies	—	1002.58	incl. S.W. east of retw'l.
0+00	4+35.70	Ser. St. B	Rt.	5.0'	407.7	185.00	
0+00	1+04.85	Forrest Ave.	Rt. & Lt.	Varies	—	88.34	
			Totals			1275.92	Pay 1275.9

RETAINING WALL & STEPS

Location	Cl. 3	Cl. B	Reinf. Steel	Pipe Railing	Remarks
Along Troost Ave.	83	28.0	1482	82'	Plan Quantities
Totals	83	28.0	1482	82'	

GUARD RAIL TYPE A

Location	Lin. Ft.	Remarks
West Leg of Alley Turnaround	12.5	Rt. of Ser. St. B
East Leg of Alley Turnaround	12.5	Rt. of Ser. St. B
Total	25.0	

4" CONCRETE SLOPE PROTECTION

Location	S.Y.	Remarks
Bridges A-249 & 250	821.00	See Sheet No. 90 for Comp.
Bridge A-251	287.07	See Sheet No. 90 for Comp.
Total	1108.07	
Pay	1108.1	

GENERAL SUMMARY — FINAL PLANS

ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED AID ONLY
1-D	Class A Excavation	C.Y.	53480	
1-I	Class 3 Excav. For Structures	C.Y.	3716.5	
1-K	Compacting Embankments	C.Y.	45567	
1-L	Compacting in Cuts	C.Y.	2386	
1-X	Adjusting Manholes to Grade	Each	4	
1-ZZ	Miscellaneous Removals (Urban Areas)	Lump Sum	1	
3-A	Concrete Base Course (8")	S.Y.	5291.1	
13-D	Crushed Stone (B) Surface	Ton	46	
15-A	Concrete Pavement (8" Non-Reinf.)	S.Y.	833.6	
16-B	Class "B" Conc. (Other than Box Culv't.)	C.Y.	123.4	
17-BB	Pipe Handrail	L.F.	82	
18-C	12" Reinf. Conc. Culv't. Pipe	L.F.	590	
18-C	15" " " " "	" "	371	
18-C	18" " " " "	" "	301	
18-C	24" " " " "	" "	46	
18-C	30" " " " "	" "	232	
18-H	12" Reinf. Conc. Sewer Pipe	L.F.	8	
18-H	15" " " " "	" "	43	
18-H	18" " " " "	" "	370	
18-H	24" " " " "	" "	160	
19-A	Reinforcing Steel	Lbs.	12360	
23-E	4" Conc. Slope Protection	S.Y.	1108.1	
24-A	Class "A" Underdrain (Type 1)	L.F.	573	
25-A	Concrete Curb	L.F.	76	
25-D	Concrete Gutter (Type A)	L.F.	67.0	
25-BB	Paved Approach (7")	S.Y.	17.3	
25-BB	Paved Approach (8")	S.Y.	23.5	
26-A	Concrete Sidewalk (4")	S.Y.	1275.9	
27-A	Type "A" Guard Rail	L.F.	25	
28-C	Standard Signs, Flags, & Flagging	Lump Sum	1	
28-E	Movable Barricades	Each	14	
36-A	Grates and Bearing Plates	Lbs.	4330	
36-C	Manhole Frame & Cover	Each	7	
36-E	Curb Inlets (18")	Each	1	
36-E	Curb Inlets (24")	Each	2	
37-B	Sodding	S.Y.	5811	
	4" COMPACT GRANULAR BASE			
1-BA	Water	100 Gal.	170	
3C-A	Granular Base Material	Ton	1392	
3C-B	Spreading, Shaping & Compacting	S.Y.	5569	
	ASPHALTIC CONCRETE PAVEMENT			
4C-A	Primer (RC-0)	Gal.	360	
7-C	Type C Asphaltic Concrete	Ton	657	
	ROADWAY CONTINGENT ITEMS			
	Integral Curb	L.F.	50	

Prepared By ______ Date ______ 19__ Checked in Dist. Office By ______ Date ______ 19__ Checked in Central Office By [illegible] Date 4-8 19 62 Revised By ______ Date ______ 19__

LOCATION 14th Street interchange on Southeast Freeway

TYPE Grading, Culverts, Bridges and Retaining Walls

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

Sheet No 2 of 2 2-A Sheets

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	I-70-1(5)-1		2-A	2 of 2
DIST. No.	COUNTY			ROUTE	SEC. No.
4	JACKSON			FAI-1	

CONCRETE PAVEMENT, 8" NON-REINFORCED

Station	to Station	Location	Width	Length	S.Y.	Remarks
Rt of Sta 2355 Ser St B		Alley Turn-around	Varies	45.50	112.1	Field Measurement
0+33.93	5+75	Alley	12'	541.10	721.47	Field Measurement
			Total		833.60	
			Pay		833.6	

8" CONCRETE BASE COURSE

Station	to Station	Location	Width	Length	S.Y.	Remarks
1+25	9+00	Reloc Troost	41.0	777.5	3537.82	Incl Alley Corn. Field Meas.
0+00	4+49.67	Ser St B	Varies	-	1299.98	Field Measurement
0+00	0+73.99	Ramp C-1	Varies	-	190.90	Field Measurement
0+35	1+04.85	Forest	Varies	-	262.38	Field Measurement
			Total		5291.08	
			Pay		5291.1	

PAVED APPROACHES

Station	Location	Width	Length	T. S.Y.	B. S.Y.	Remarks
1+04	Reloc. Troost	Varies		17.31		Field Measurement
8+54	Alley	Varies			23.54	Field Measurement
			Totals	17.31	23.54	
			Pay	17.3	23.5	

CONCRETE GUTTER, TYPE A

Location	Lin. Ft.	Remarks
West end of Alley Wall to Inlet #323	67.0	Field Measurement
Total	67.0	
Pay	67.0	

CONCRETE CURB

Station	to Station	Location	Side	Lin. Ft.	Remarks
A+24	9+00	Reloc. Troost	Rt.	76.0	Field Measurement
		Total		76.0	
		Pay		76.0	

SODDING

Location	S.Y.	Remarks
North side of Service Street B and part of slopes and areas along Troost Ave	5811	Field Measurement
Total	5811	
Pay	5811	

INTEGRAL CURB

Location	Lin. Ft.	Increase	Remarks
Reloc. Troost & Ramp C-1	1492.6		Mass Quantity
Reloc. Troost & Ramp C-1	1482		Plan Quantity
		10.6	
Service St B & Forrest Ave	1044.8		Mass Quantity
Service St B & Forrest Ave	1005		Plan Quantity
		39.8	
Total		50.4	Lin. Ft.
Pay		50	Lin. Ft. Increase

MOVEABLE BARRICADES

Location	Station	Number	Remarks
Troost Ave	1+00	3	
Troost Ave	9+25	3	
Campbell & Truman Rd	—	2	
14th St. & Service St B	—	2	
14th St. & Harrison	—	2	
Forrest & Service St B	—	2	
Total		14	

LENGTH OF PROJECT

End of Project	Station	
Beginning of Project	Station	
Apparent Length		Feet
Equations and Exceptions:		
Total Corrections		Feet
Net Length of Project		Feet
State Length =		Miles
Federal Length =		Miles

GENERAL SUMMARY

ITEM No	DESCRIPTION	UNITS	TOTAL UNITS	No. UNITS FED. AID ONLY
	BRIDGE STA. 14+04.6 (Lane E) (DWG. No A-251)			
1-G	Class 1 Excavation for Structures	C.Y.	153.5	
16-B-1	Class B-1 Concrete (Super-Str.)	C.Y.	442.9	
16-B	Class B Concrete (Sub-Str.)	C.Y.	36.0	
17A-A	Aluminum Alloy Handrail	L.F.	349	
19-A	Reinforcing Steel	Lbs.	149820	
22-DD	10" Steel Piles in Place (State Furnished)	L.F.	742	
22-DD	12" Steel Piles in Place (State Furnished)	L.F.	842	
40-W	Conduit System	Lump Sum	1	
	CONTINGENT ITEMS			
	RETAINING WALL STA. 15+06.27 (Lane E) 38.61' Lt. (DWG. No A-469)			
1-1	Class 3 Excavation for Structures	C.Y.	838	
16-B	Class B Concrete	C.Y.	539.6	
19-A	Reinforcing Steel	Lbs	49790	
22-DD	10" Steel Piles in Place (State Furnished)	L.F.	3690	
	CONTINGENT ITEMS			
	RETAINING WALL STA. 1+08.83 (DWG No A-325)			
1-1	Class 3 Excavation for Structures	C.Y.	681	
16-B	Class B Concrete	C.Y.	362.2	
19-A	Reinforcing Steel	Lbs	24680	
25-D	Concrete Gutter	L.F.	79	
	CONTINGENT ITEMS			

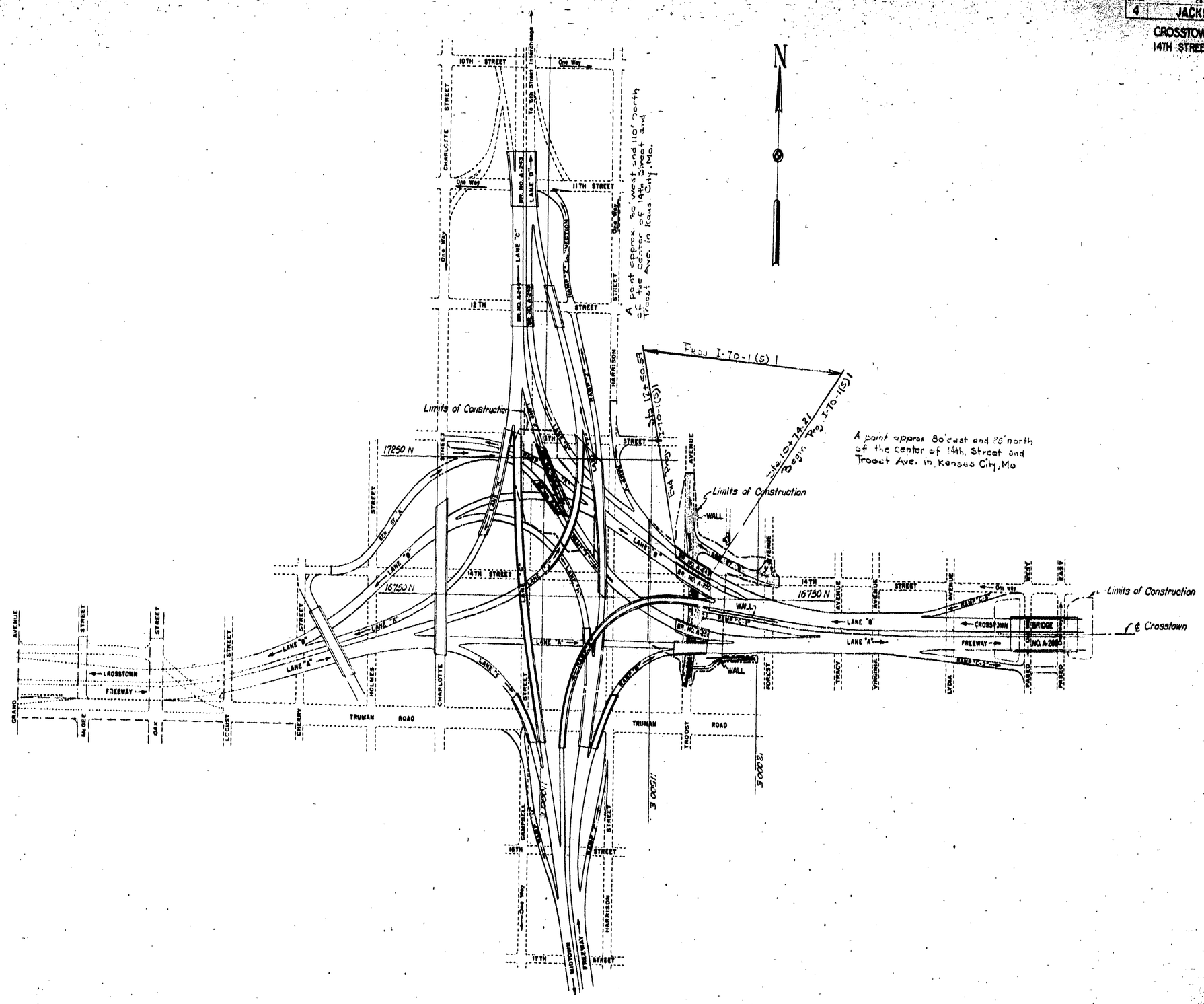
GENERAL SUMMARY

ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED. AID ONLY
	BRIDGES & RETAINING WALLS			
	BRIDGE STA. 5+14.66 (Lane E) (DWG. No A-247)			
1-G	Class 1 Excav. for Structures	C.Y.	212.0	
16-B-1	Class B-1 Concrete (Super. Str.)	C.Y.	585.4	
16-B	Class B Concrete (Sub-Str.)	C.Y.	157.5	
17A-A	Aluminum Alloy Handrail	Lin. Ft.	626	
17-B	Fab. Str. Steel (Bearings)	Lbs.	1520	
17-B	Fab. Str. Steel	Lbs.	6350	
19-A	Reinforcing Steel	Lbs.	201040	
22-DD	10" Steel Piles in Place (State Furnished)	L.F.	853	
22-DD	12" Steel Piles in Place (State Furnished)	L.F.	735	
40-W	Conduit System	Lump Sum	1	
	CONTINGENT ITEMS			
	BRIDGE STA. 6+76.08 (Lane E) 69.68' Rt. (DWG. No A-248)			
1-G	Class 1 Excav. for Structures	C.Y.	145	
16-B-1	Class B-1 Concrete (Super-Str.)	C.Y.	257.2	
16-B	Class B Concrete (Sub-Str.)	C.Y.	103.9	
17A-A	Aluminum Alloy Handrail	Lin. Ft.	379	
17-B	Fab. Str. Steel (Bearings)	Lbs.	1220	
17-B	Fab. Str. Steel	Lbs.	4500	
17-K	Drainage System	Lump Sum	1	
19-A	Reinforcing Steel	Lbs.	82560	
22-DD	10" Steel Piles in Place (State Furnished)	L.F.	727	
22-DD	12" Steel Piles in Place (State Furnished)	L.F.	270	
40-W	Conduit System	Lump Sum	1	
	CONTINGENT ITEMS			
	Realign Handrail	Lump Sum	1	
	BRIDGE STA. 14+01.08 (Lane E) 228.94' Lt. (DWG. No A-249)			
1-G	Class 1 Excav for Structures	C.Y.	174	
16-B-1	Class B-1 Concrete (Super-Str.)	C.Y.	514.9	
16-B	Class B Concrete (Sub-Str.)	C.Y.	49.2	
17A-A	Aluminum Alloy Handrail	L.F.	397	
19-A	Reinforcing Steel	Lbs	153560	
22-DD	10" Steel Piles in Place (State Furnished)	L.F.	851	
22-DD	12" Steel Piles in Place (State Furnished)	L.F.	626	
40-W	Conduit System	Lump Sum	1	
	CONTINGENT ITEMS			
	BRIDGE STA. 14+44.59 (Lane E) 137.52' Lt. (DWG. No A-250)			
1-G	Class 1 Excav for Structures	C.Y.	239	
16-B-1	Class B-1 Concrete (Super-Str.)	C.Y.	620.6	
16-B	Class B Concrete (Sub-Str.)	C.Y.	48.0	
17A-A	Aluminum Alloy Handrail	L.F.	391	
19-A	Reinforcing Steel	Lbs	193560	
22-DD	10" Steel Piles in Place (State Furnished)	L.F.	773	
22-DD	12" Steel Piles in Place (State Furnished)	L.F.	604	
40-W	Conduit System	Lump Sum	1	
	CONTINGENT ITEMS			
	Test Holes	L.F.	20	

Prepared By _____ Date _____ 19__ Checked in Dist. Office By _____ Date _____ 19__ Checked in Central Office By _____ Date _____ 19__ Revised By _____ Date _____ 19__

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	I-70-1(5)1			
DIST. NO.		COUNTY		ROUTE	SEC.
4		JACKSON		F.A.I. 1	

CROSSTOWN FREEWAY
14TH STREET INTERCHANGE



HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

DRAWN A.L.H.	DATE 7-2-57	TRACED H.K.M. MAC	DATE 8-20-57
CHECKED MEB	DATE 2-11-58	SCALE 1" = 200' - 0"	

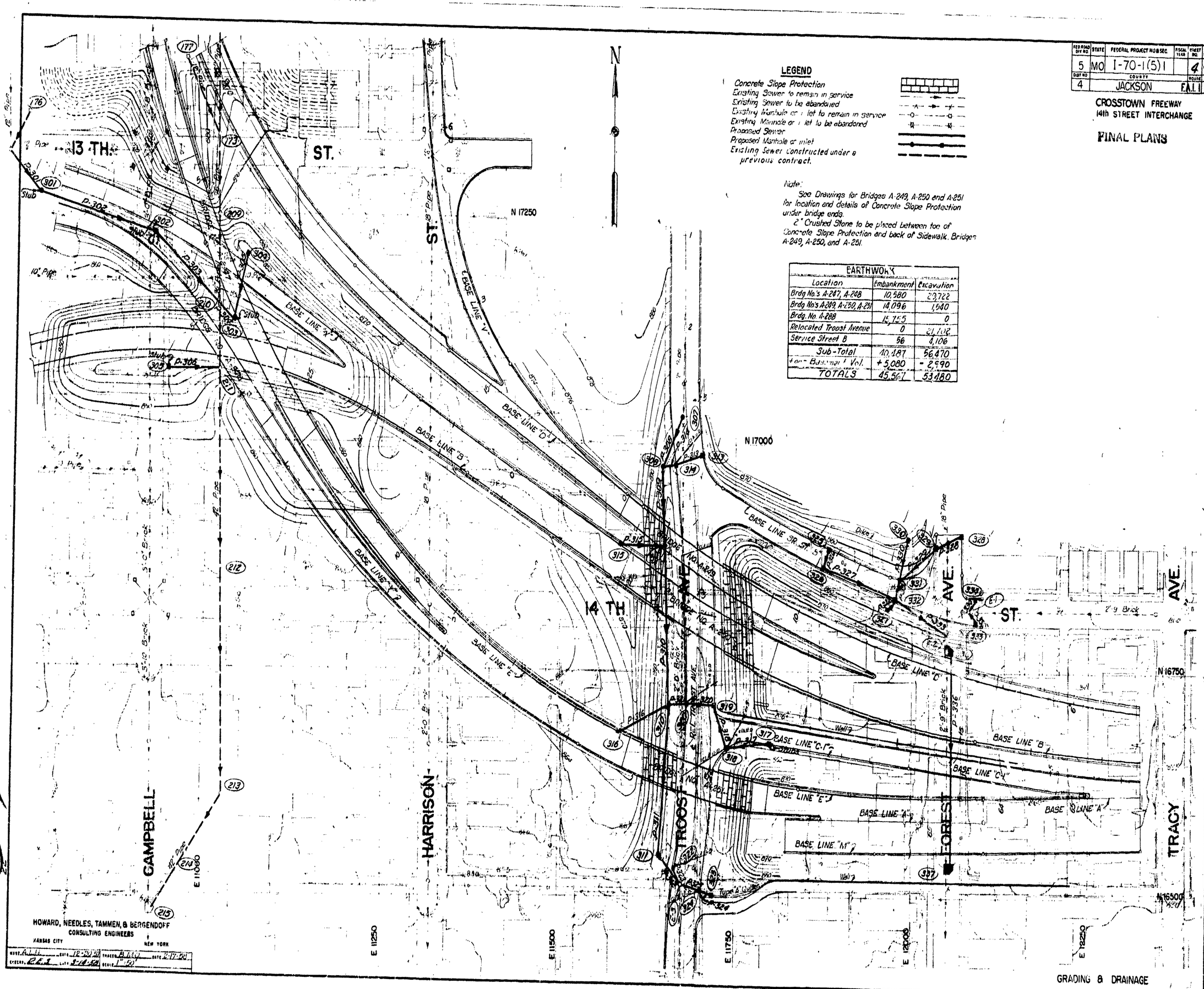
GENERAL PLAN

306

FED ROAD DIV NO	STATE	FEDERAL PROJECT NO & SEC	FISCAL YEAR	SHEET NO	TOTAL SHEETS
5	MO	I-70-1(5)1		4	93
DIST NO		COUNTY		ROUTE	REC
4		JACKSON		F.A.I. 1	

CROSSTOWN FREEWAY
14th STREET INTERCHANGE

FINAL PLANS



LEGEND

- Concrete Slope Protection
- Existing Sewer to remain in service
- Existing Sewer to be abandoned
- Existing Manhole or inlet to remain in service
- Existing Manhole or inlet to be abandoned
- Proposed Sewer
- Proposed Manhole or inlet
- Existing Sewer constructed under a previous contract.

Note:

See Drawings for Bridges A-249, A-250 and A-251 for location and details of Concrete Slope Protection under bridge ends.

2" Crushed Stone to be placed between toe of Concrete Slope Protection and back of Sidewalk. Bridges A-249, A-250, and A-251.

EARTHWORK		
Location	Embankment	Excavation
Brdg No.'s A-247, A-248	10,580	29,722
Brdg No.'s A-249, A-250, A-251	14,096	1,540
Brdg. No. A-288	15,755	0
Relocated Troost Avenue	0	21,102
Service Street B	56	4,106
Sub-Total	40,487	56,470
+or- Basement Vol.	+5,080	-2,990
TOTALS	45,567	53,480

HOWARD, NEEDLES, TAMMEN, & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

MADE A.L.H.	DATE 12-30-57	TRACED B.M.O.	DATE 2-17-58
CHECKED R.E.S.	DATE 3-14-58	SCALE 1"=50'	

GRADING & DRAINAGE

307

STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MO	I-70-1(5)11		5	
DIST. NO.	COUNTY			
4	JACKSON	F.A.I.		

CROSSTOWN FREEWAY
14TH STREET INTERCHANGE

FINAL PLANS

Ultimate Const

Site Grading

Existing Ground

Elev 863.5

Pipe Stub
W 12" RCCP @ 1.87% Elev 862.25

62' 24"x19" RCCP @ 1.0%

FL 856.37

FL 855.37

FL 854.96

P-301

160' 24"x19" RCCP @ 1.20%

P-302

Elev 854.10

Pipe Stubs
NW 12" RCCP @ 1.25% Elev 855.92
S 12" RCCP @ 8.35% Elev 854.00

FL 851.60

FL 851.39

121' 24"x19" RCCP @ 2.45%

P-303

Ultimate Const

Elev 846.18

19' 18" RCSP @ 1.5%

75' 18" RCCP @ 6.8%

FL 847.50

Elev 852.39

Elev 843.93

Site Grading

72' 18"x11.5" RCCP @ 1.4%

FL 839.60

FL 838.32

P-306

Pipe Stub
N 15" RCCP @ 1.0% Elev 839.75

Existing Manhole

FL 841.05

FL 841.05

FL 839.05

P-304

P-305

Pipe Stub
NE 15" RCCP @ 1.0% Elev 842.13

FL 842.60

FL 841.55

Elev 859.59

Elev 856.25

65' 24"x19" RCCP @ 1.50%

FL 856.05

FL 855.12

FL 853.94

P-308

Elev 860.00

99' 24"x19" RCCP @ 5.15%

178' 24"x19" RCCP @ 4.54%

FL 854.30

FL 854.25

P-309

P-310

852.70 - Adj. to grade

Elev ~~858.00~~

Limits of C13 Exc.

Elev 842.00

Elev 851.16

Elev 851.33

E-3 TROOST

23' 22"x13" RCCP @ 1.25%

Type A Gutter

16' 18"x11" RCCP @ 2.0%

FL 847.50

FL 846.14

FL 846.46

FL 847.24

P-325

P-324

Existing 2-0 Brick Sewer

FL 846.28

FL 844.19

160' 18" RCSP @ 4.50%

P-311

46' 18" RCCP @ 4.57%

FL 841.65

FL 841.40

FL 840.62

FL 840.36

P-312

TROOST AVE SEWER RELOCATON

Elev 866.25

Elev 864.65

Elev 864.67

45' 18" RCCP @ 1.25%

FL 863.94

FL 860.75

FL 860.39

FL 861.25

P-313

P-314

Top of Box
Elev 867.10

64' 24"x19" RCCP @ 1.25%

FL 864.60

P-315

Elev 860.00

FL 859.00

FL 858.25

Top of Box
Elev 864.11

75' 24"x19" RCCP @ 2.66%

FL 860.99

P-316

71'

Elev 858.10

Elev 857.78

E. Ramp C.L.

Elev 851.40

61' 15"x11" RCCP @ 2.0%

Top of Box
Elev 852.61

48' 15"x11" RCCP @ 2.33%

24' 18"x11" RCCP @ 1.25%

FL 847.43

FL 847.18

FL 846.61

FL 846.11

FL 845.36

FL 845.19

FL 844.19

FL 844.86

FL 844.69

FL 845.16

P-317

P-318

P-320

P-321

Elev 851.22

14' 16"x12" RCCP @ 1.29%

FL 847.80

FL 847.62

P-323

Pipe Stubs
E 12" RCCP @ 5.10% Elev 850.50
SE 12" RCCP @ 36.1% Elev 849.86

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CONSULTING ENGINEERS
KANSAS CITY NEW YORK

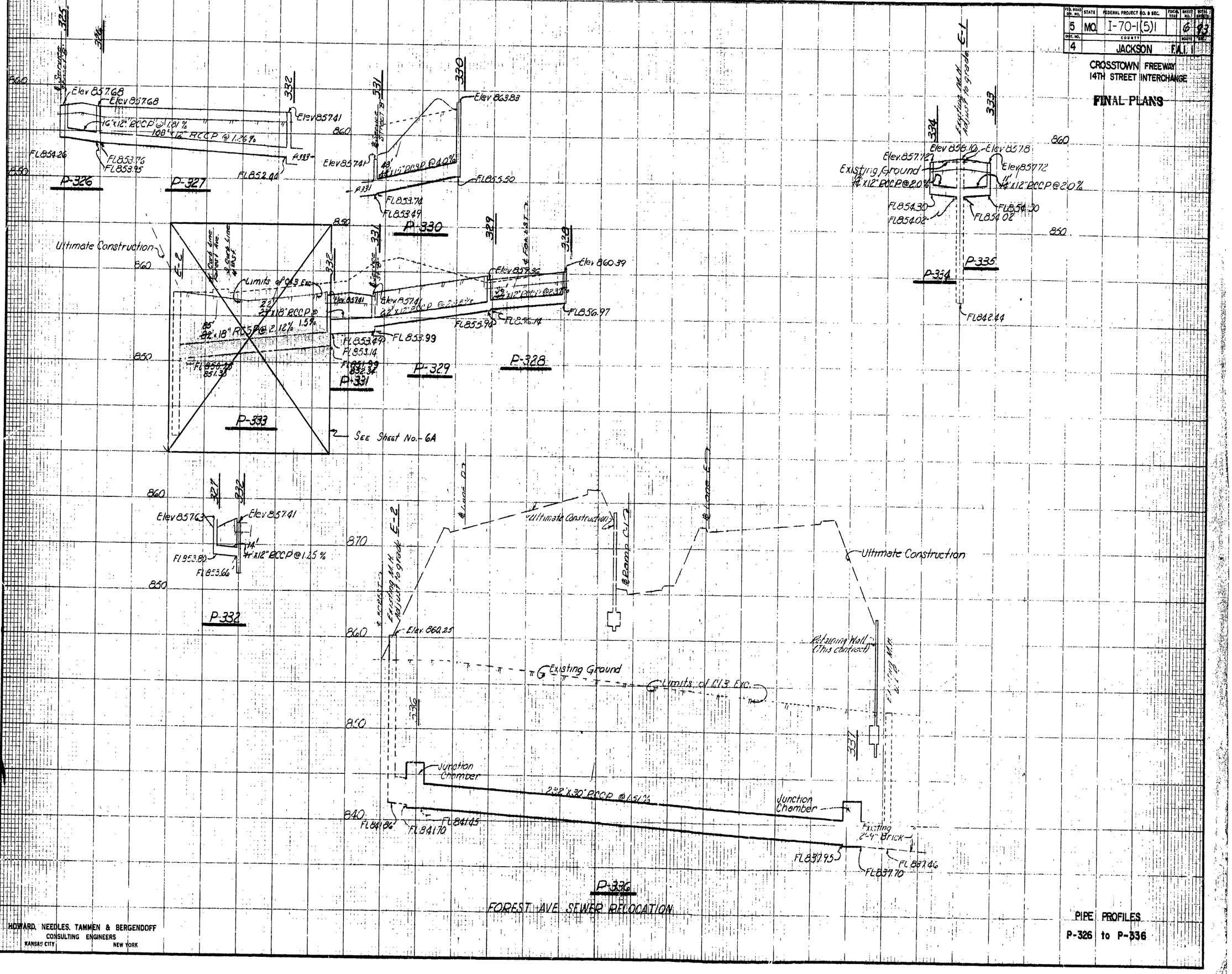
PIPE PROFILES
P-301 to P-325

308

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	I-70-1(51)		6	93
DIST. NO.	COUNTY			ROUTE	SEC.
4	JACKSON		F.A.I.		

CROSSTOWN FREEWAY
14TH STREET INTERCHANGE

FINAL PLANS



FOREST AVE SEWER RELOCATION

PIPE PROFILES
P-326 to P-336

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

NO. I-70-1(5)1 79
4 JACKSON E.A.I.

CROSSTOWN FREEWAY
14TH STREET INTERCHANGE
FINAL PLANS

LEGEND

Water Main ——W——
Gas Main ——G——
Existing Sewer ——S——
S.W. Bell Telephone Duct Line ——T——

13TH STREET
1308 APT.
1309 DW.
1315 DW.
1317 APT.
Build Walk & Steps Match Existing
6' R.E.
5' Sidewalk
Sta 6+36.64 Rel. Troost Sta 39+13.07 E. San St. Sta 1+13.07 Match Line for Sidewalk & Curb
Sta 1+36.35 Match San St. B
Type 'A' Curb
6' Sidewalk
Not Built
REL. TROOST AVE.
14TH STREET
1310 DW.
1308 DW.
1310 DW.
Begin Rel. Troost Sta 39+13.07
Sta 6+36.64 Rel. Troost
Match Line Sta 1+13.07
6' Sidewalk
Type 'A' Curb
Sta 0+00 Rel. Troost
Sta 1+49.90 Rel. Troost
Match Line
6' Sidewalk
Type 'A' Curb
6' Sidewalk
P.O.T. Sta 0+50.65 Traverse 'A' Sta 1+50.65 Traverse 'B'
See Misc. Detail Sheet for Sidewalk, Curb & Step Treatment
Detail 'A'
Sta 1+70.00 P.O.T.
Begin Wall Sta 1+00.69
Match Line Sta 0+00
Sta 0+00 Rel. Alley
Sta 3+43.71 Rel. Troost
G.E. Store Building
Sta 0+00 Rel. Alley
Sta 3+43.71 Rel. Troost
New Sidewalk
TROOST AVE.
Sta 0+00 Rel. Troost Sta 2+39.32 Traverse 'C' End New Pavement Start Sidewalks
CHURCH
Sta 5+32.97 Traverse 'C'

NOTES:
For Alley and Driveway Approach Details, See M.S.H.D. Standard Drawing No. 25 BB
For Concrete Sidewalk and Step Detail, See M.S.H.D. Standard Drawing No. 26 A (Houses No. 1308, 1309, 1310, 1315 & Church.)
For Curve Data, See Geometric Plan Sheet. (20)

870
860
850
Sta 0+00 Rel. Alley Sta 0+43.71 Rel. Troost Elev. 862.42
Sta 0+00 Rel. Troost Elev. 859.08
Sta 1+00 Elev. 853.57
Sta 1+50.74 Elev. 853.69
-4.0%
+3.19%
+0.3%
25' V.C.
Match Existing Alley Profile to End of Wall

ALLEY PROFILE
1"=30' Horiz., 1"=10' Vert.

880
875
865
855
850
1+50 P.V.I. El 870.465
50' V.C. M=0.84'
-5.0%
-0.3%
+25 P.V.I. El 865.465
125' V.C. M=1.03'
+7.5% P.V.I. El 881.415
50' V.C. M=3.87'

REL. TROOST PROFILE
1"=30' Horiz., 1"=10' Vert.

B.M.'s
1"=3.1' Horiz., 1"=10' Vert.
3-3-58

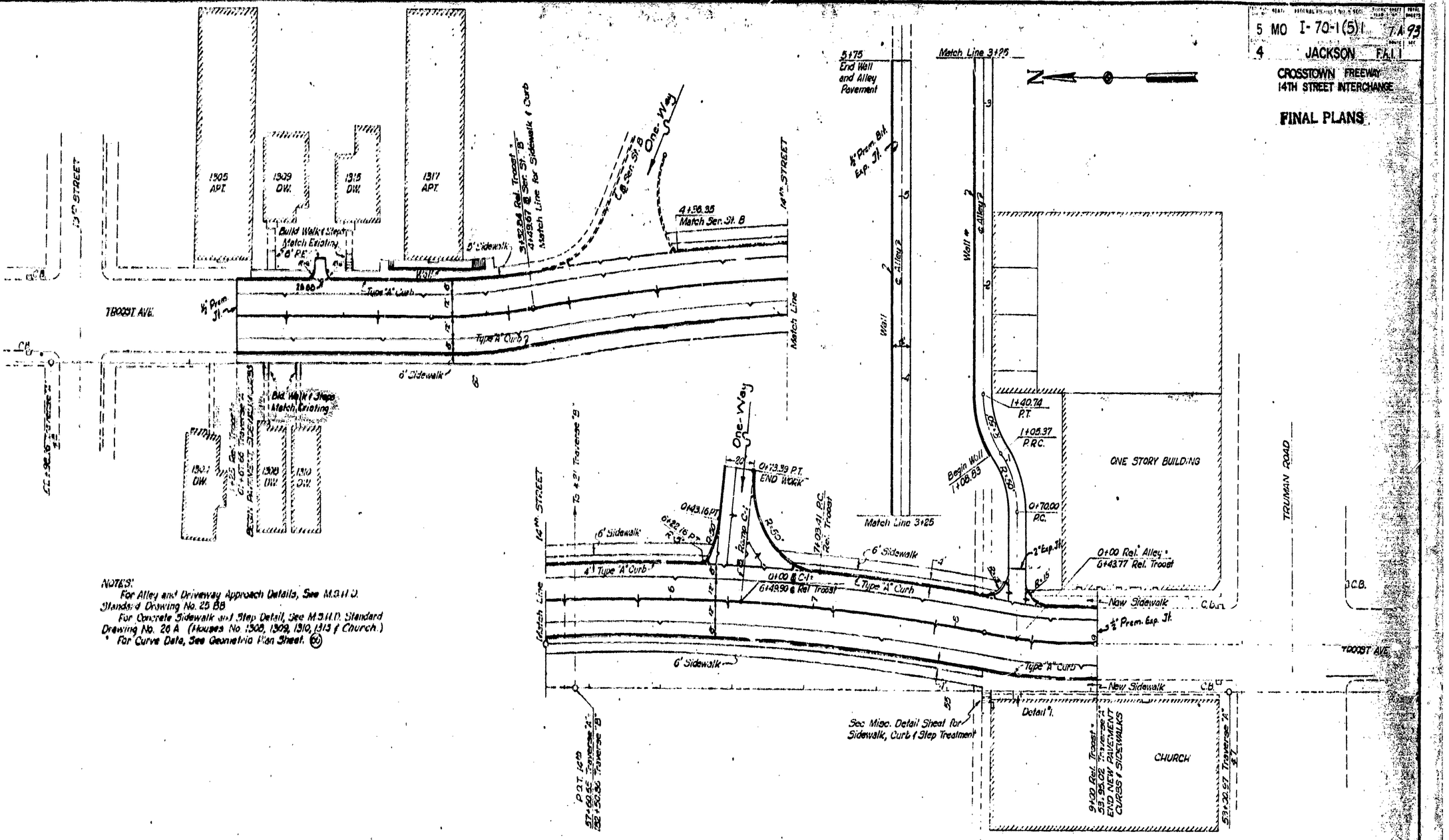
PLAN & PROFILE
FOR
REL. TROOST AVENUE

312

5 MO I-70-1(5)I 7A93
4 JACKSON F.A.I.

CROSSTOWN FREEWAY
14TH STREET INTERCHANGE

FINAL PLANS



NOTES:
For Alley and Driveway Approach Details, See M.S.H.D. Standard Drawing No. 25 BB
For Concrete Sidewalk and Step Detail, See M.S.H.D. Standard Drawing No. 26 A (Houses No. 1308, 1309, 1310, 1315 & Church.)
For Curve Data, See Geometric Plan Sheet. (20)

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

DRAWN	A.L.H.	DATE	7-19-57	CHECKED	B.M.J.
TRACED	B.R.D.	DATE	9-3-58	SCALE	1" = 30' Horiz., 1" = 10' Vert.

DATE 11-14-57

JOINT LAYOUT

TROOST AVE. RELOCATION

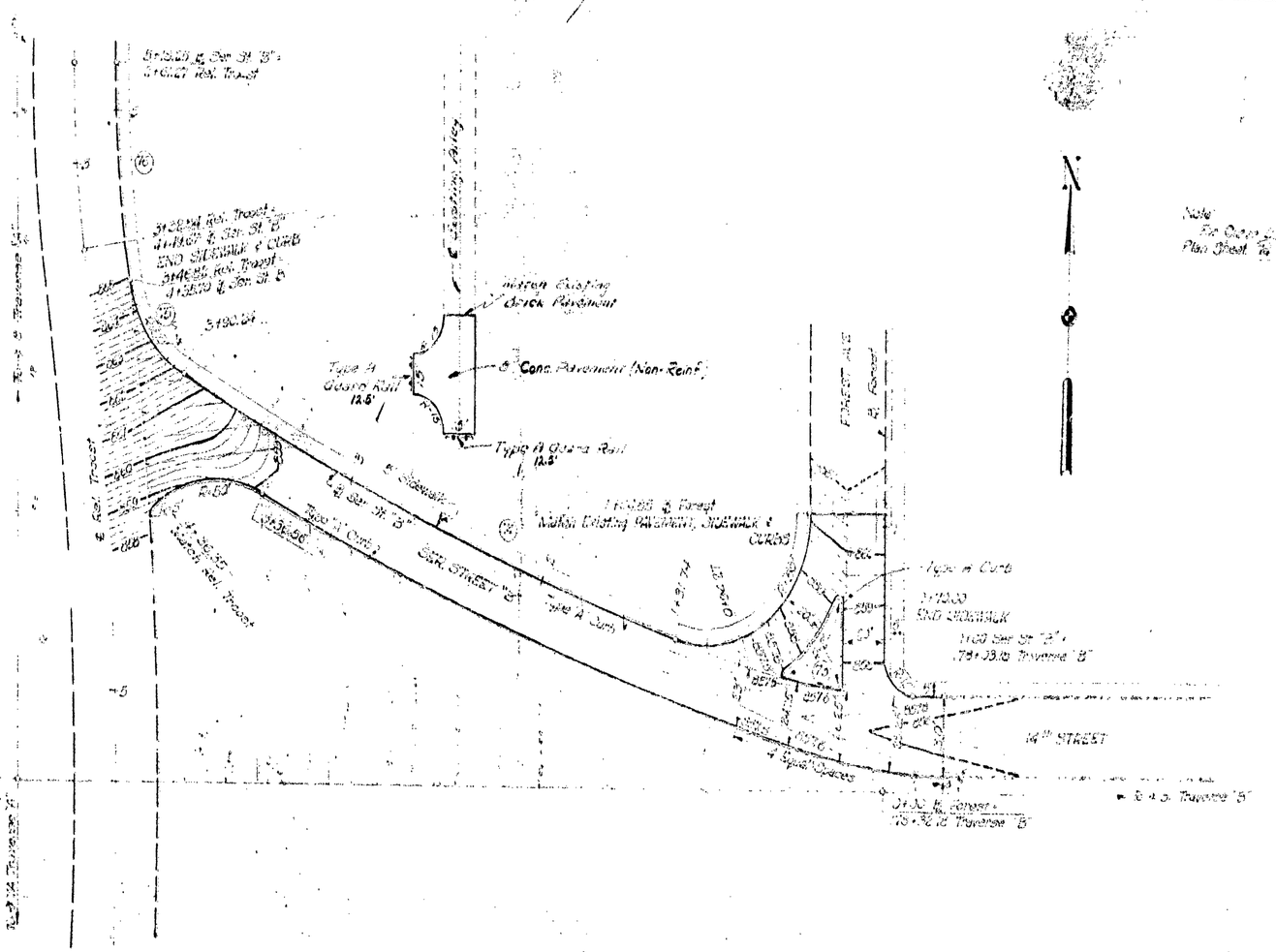
SCALE 1" = 30'

SPECIAL SHEET NO.

5 MO I-70-1(5)1 93
4 JACKSON F.A.I. 1

CROSSTOWN FREEWAY
14TH STREET INTERCHANGE

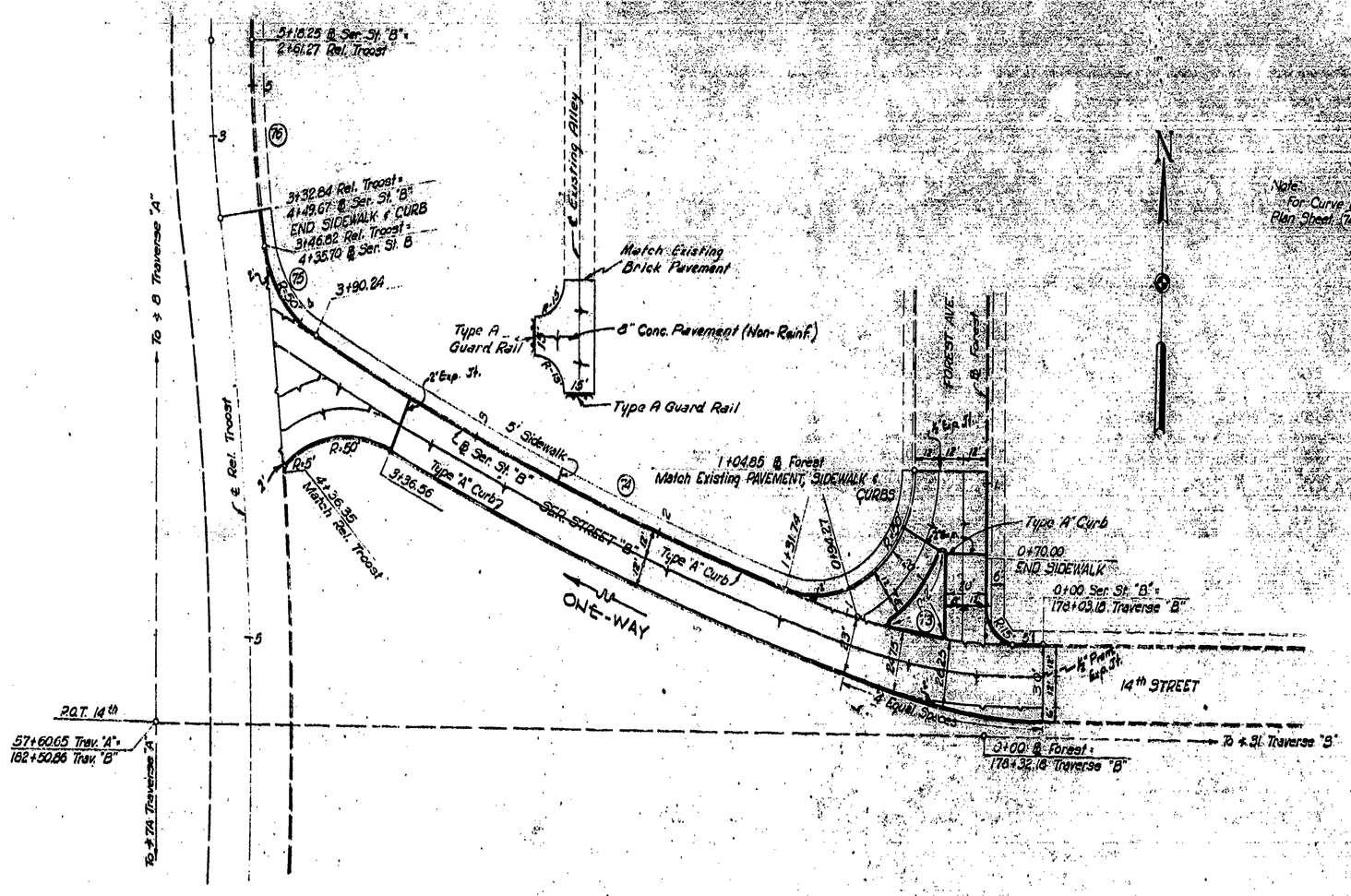
FINAL PLANS


Note
For Curve Data, See Geometric Plan Sheet No.
N
Type A Curb
Type A Guard Rail 12.5'
6" Conc. Pavement (Non-Reinf.)
Match Existing Pavement
Type A Curb
Type A Guard Rail 12.5'
Match Existing Pavement, Sidewalk & Curbs
Type A Curb
3+30.00 END SIDEWALK
1160 Lac St. "A"
.75+28.16 Traverse "B"
FOREST AVE.
St. Forest
SER. STREET "B"
14th STREET
P.O.T. 3+19
27+00.5 Trav. "A"
152+30.56 Trav. "B"
3+30.16 Forest
75+92.12 Traverse "B"
P.O.S. Traverse "B"
Match Existing Pavement, Sidewalk & Curbs
Match Existing Pavement
Type A Curb
Type A Curb
Match Existing Pavement
Match Existing Pavement
Match Existing Pavement

STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MO	I-70-1(5)1	84	93	
DIST. NO. 4	COUNTY JACKSON		COUNTY SEC.	F.A.I. I

CROSSTOWN FREEWAY
14TH STREET INTERCHANGE

FINAL PLANS



LEGEND:

- Monolithic Construction
- Longitudinal Jt. with tie bars
- Longitudinal Jt. without tie bars

JOINT LAYOUT

SCALE 1" = 30'

SPECIAL SHEET No.

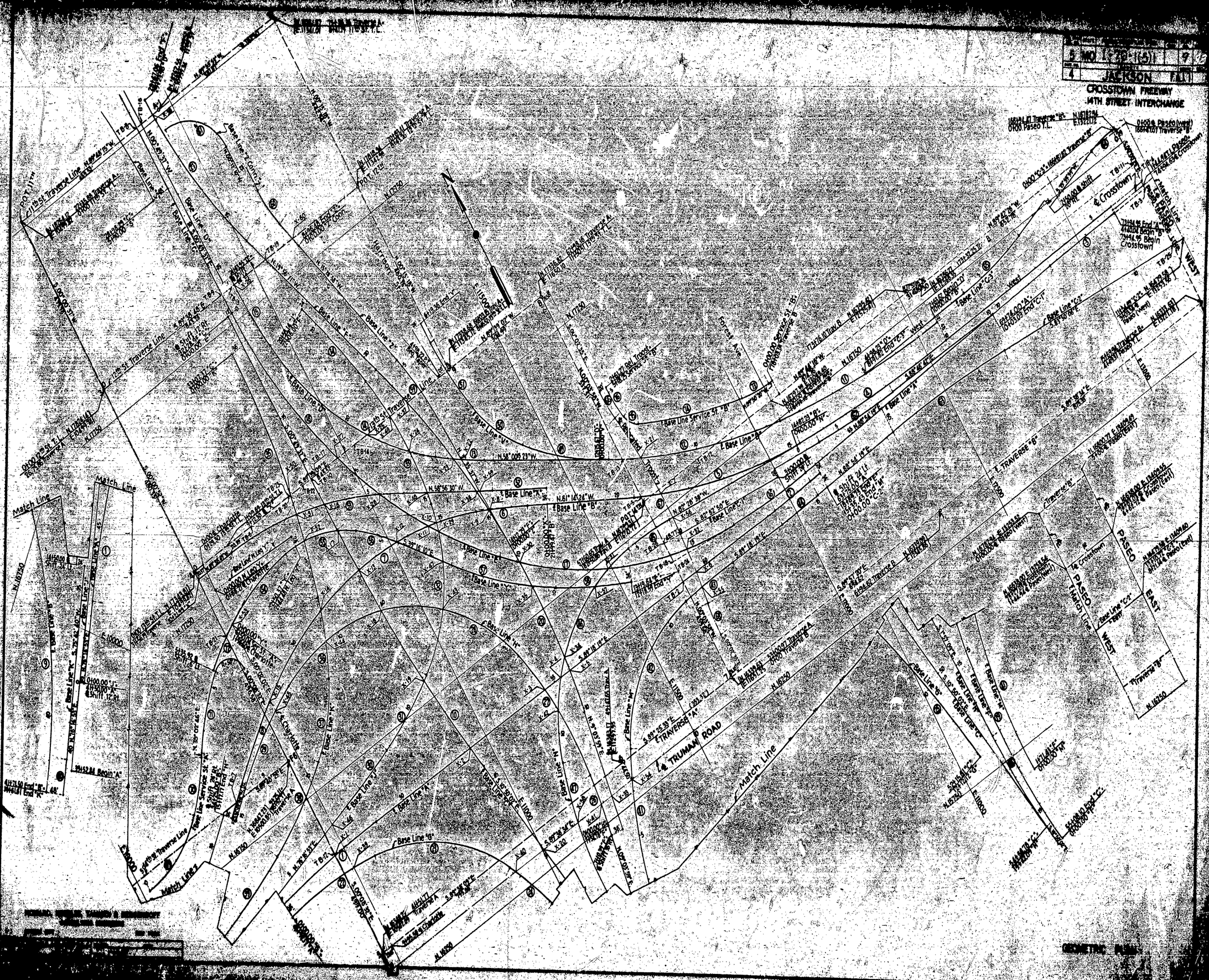
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

DESIGN	A.J.U.	DATE	1-30-58	DRAWN	B.M.O.	DATE	3-11-58
CHECKED	BRD	DATE	3-4-58	1" =	30'	DATE	

313

5	MO L 239-1(5)I	9	62
4	JACKSON FAI		

CROSSTOWN FREEWAY
14TH STREET INTERCHANGE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Base Line "DDDDDDDDDDDDDDDDDDDDDDDDDDD"
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Base Line "JJJJJJJJJJJJJJJJJJJJJJJJJJJJJJ"
Base Line "KKKKKKKKKKKKKKKKKKKKKKKKKKKKKK"
Base Line "LLLLLLLLLLLLLLLLLLLLLLLLL

			33+93.80		
			P.T.Ⓓ(+98.68)		
			P.C.Ⓒ(+225.99)		
			P.C.Ⓓ(+179.78)		
			33+87.19		
			27+63.86		
			31+80.08		
			36+20.61		
TB-11	Lane "D"	0+88.84	89.63' east of Ref. Tr. Lane "D"	N.16859.00	E.13221.13
TB-12	Lane "D"	180+90.35	P.T.Ⓓ(-251.21)	N.16798.44	E.11631.25
TB-13	Lane "D"	58+12.68	P.I.Ⓓ(+209.28)	N.16911.35	E.11650.58
TB-14	Lane "D"	52+90.46	19+66.62 P.O.S.T. Ⓑ	N.17340.99	E.11050.07
TB-15	Lane "D"	44+25.15	P.T.Ⓑ (+169.71)	N.17681.33	E.10922.88
TB-16	Lane "D"	44+02.27	28+85.84	N.18262.74	E.10902.99
TB-17	Lane "D"	41+00.06	4+31.51 P.O.S.T. Ⓑ	N.17341.38	E.10894.87
TB-18	Lane "E"	56+02.20	P.I.Ⓓ(+163.65)	N.16660.86	E.11650.90
TB-19	Lane "E"	54+71.76	23+53.46	N.17820.87	E.11037.51
TB-20	Ramp "X"	33+71.36	P.C.Ⓑ (+281.96)	N.17541.88	E.10816.86
TB-21	Ramp "Y"	33+28.14	P.C.Ⓑ (-51.93)	N.17773.86	E.10900.04
TB-22	Ramp "X"	31+82.39	P.C.Ⓑ (+367.20)	N.17541.61	E.10862.20
TB-23	Ramp "Y"	31+16.68	P.T.Ⓑ (-479.89)	N.17541.89	E.10816.27
TB-24	Ramp "Y"	35+78.72	P.T.Ⓑ (+132.90)	N.18615.38	E.11650.91
TB-25	Ramp "Z"	21+96.85	11+22.08	N.16485.08	E.13121.16
TB-26	Ramp "C1"	56+50.26	0+00(-48.77')	N.16658.72	E.11650.85

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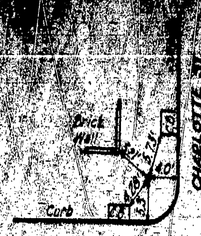
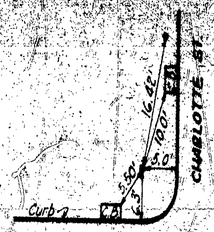
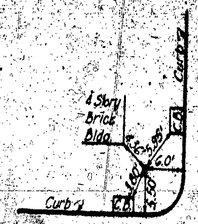


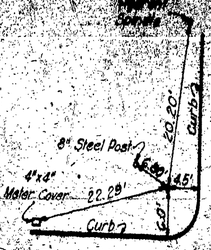
P.O.T. 11th.



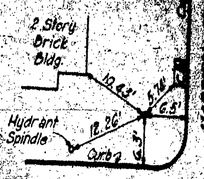
POINT A3



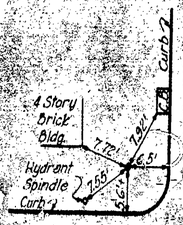
POINT A4



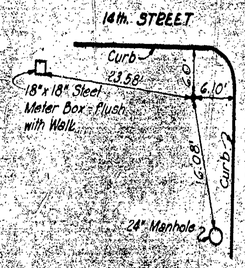
POINT A5



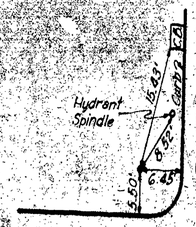
POINT A6



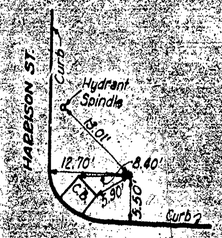
POINT A7



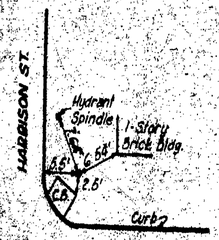
P.O.T. 14th. & B-32



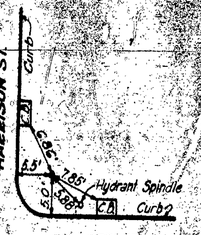
POINT A8



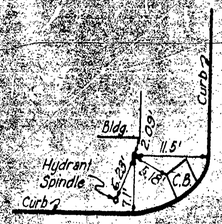
POINT A9



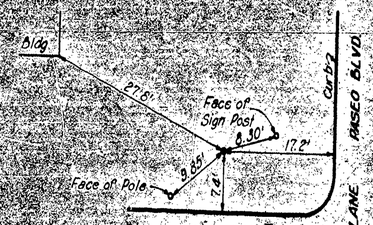
P.O.T. 12th.



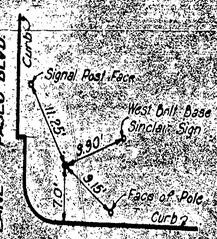
POINT A10



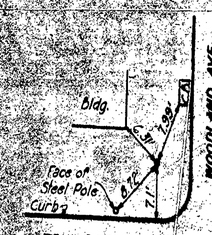
POINT B1
X L & T



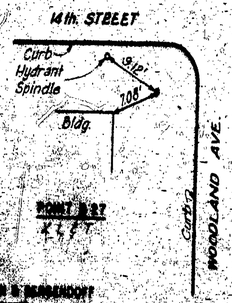
POINT B2



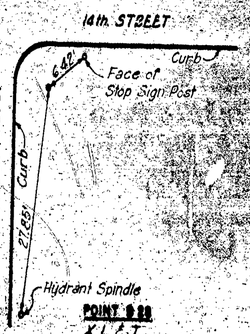
POINT B3
X L & T



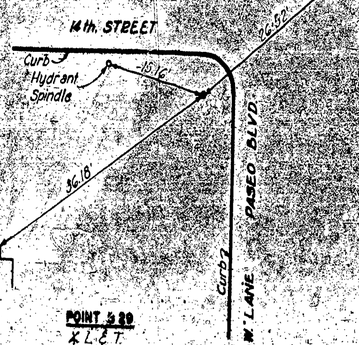
POINT B4
X L & T



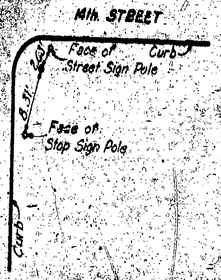
POINT B27
X L & T



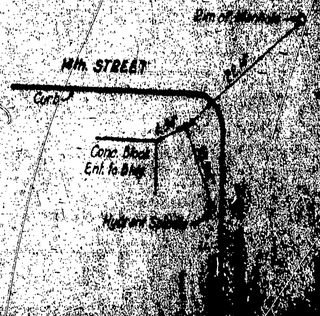
POINT B28
X L & T



POINT B29
X L & T



POINT B30
X L & T



POINT B31
X L & T

POWELL, BROWN, EL TARHOUNI & BERNHARDT

317

LANE "A"
30 M.P.H.

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
860+00	860.81	861.05	861.22	861.05	860.81	
	861.48	861.72	861.89	861.72	861.48	
	862.16	862.40	862.57	862.40	862.16	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
859+00	859.30	859.54	859.71	859.54	859.30	
	858.63	859.07	859.24	859.07	858.83	
	859.46	859.70	859.87	859.70	859.46	
860+00	860.13	860.37	860.54	860.37	860.13	
	860.81	861.05	861.22	861.05	860.81	
	861.48	861.72	861.89	861.72	861.48	
	862.16	862.40	862.57	862.40	862.16	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
860+00	860.02	860.26	860.43	860.26	860.02	
	859.51	859.75	859.92	859.75	859.51	
	858.99	859.23	859.40	859.23	858.99	
	858.48	858.72	858.89	858.72	858.48	
	858.02	858.26	858.43	858.26	858.02	
	857.65	857.89	858.06	857.89	857.65	
	857.39	857.63	857.80	857.63	857.39	
	857.22	857.46	857.63	857.46	857.22	
	857.16	857.40	857.57	857.40	857.16	
	857.19	857.43	857.60	857.43	857.19	
	857.32	857.56	857.73	857.56	857.32	
	857.55	857.79	857.96	857.79	857.55	
	857.88	858.12	858.29	858.12	857.88	
	858.30	858.54	858.71	858.54	858.30	
	858.83	859.07	859.24	859.07	858.83	
	859.46	859.70	859.87	859.70	859.46	
859+00	860.13	860.37	860.54	860.37	860.13	
	860.81	861.05	861.22	861.05	860.81	
	861.48	861.72	861.89	861.72	861.48	
	862.16	862.40	862.57	862.40	862.16	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
861+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
862+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
862+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
863+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
863+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
864+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
864+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
865+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
865+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
866+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
866+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
867+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
867+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
868+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
868+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
869+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
869+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
870+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
870+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
871+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
871+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
872+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
872+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
873+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
873+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
874+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
874+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
875+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
875+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
876+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
876+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
877+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
877+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
878+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
878+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
879+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
879+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
880+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
880+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
881+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
881+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
882+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
882+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
883+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
883+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
884+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

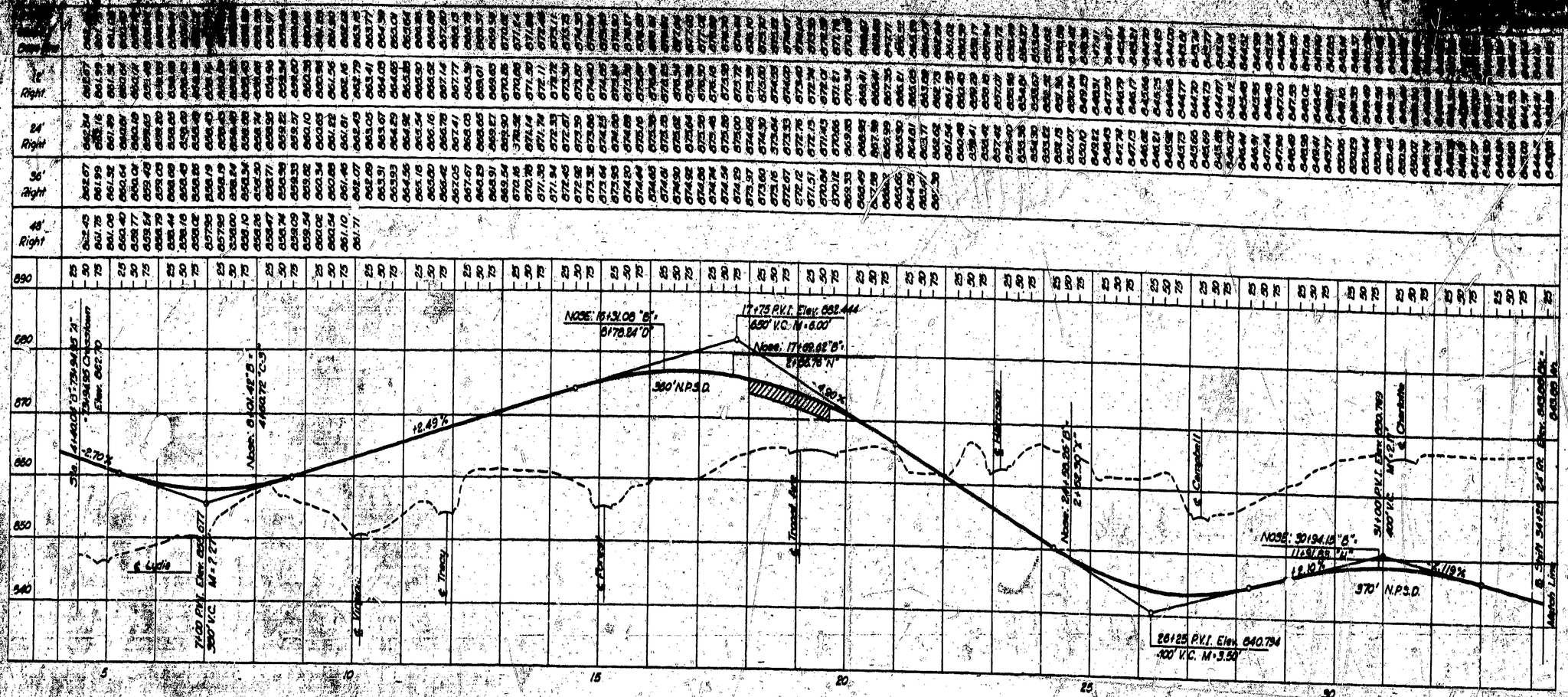
Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
884+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
885+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

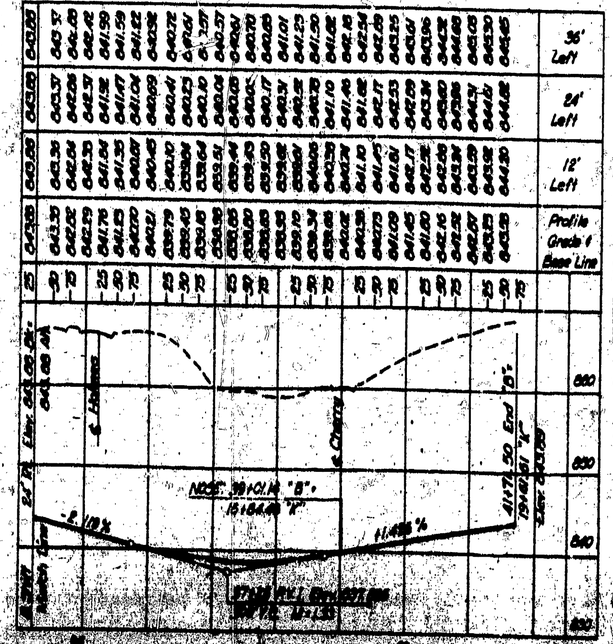
Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
885+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
886+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
886+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
887+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

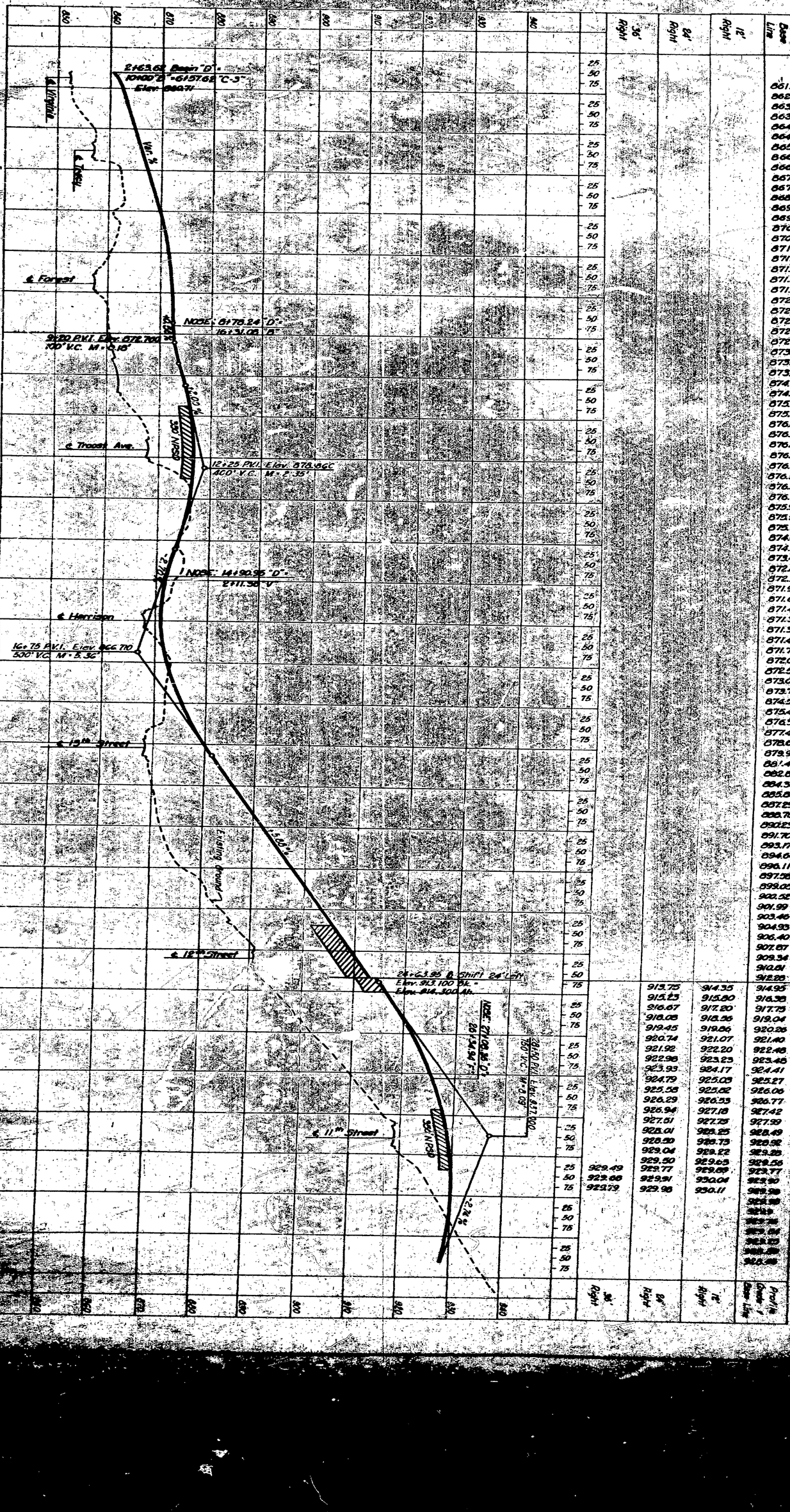
Sta.	40' Right	30' Right	24' Right	12' Right	Base Line	Profile Grade
887+00	861.20	861.44	861.61	861.44	861.20	
	860.93	861.17	861.34	861.17	860.93	
	860.68	860.92	861.09	860.92	860.68	
	860.49	860.73	860.90	860.73	860.49	
	860.36	860.60	860.77	860.60	860.36	
	860.28	860.52	860.69	860.52	860.28	
	860.24	860.48	860.65	860.48	860.24	
	860.24	860.48	860.65	860.48	860.24	
	860.28	860.52	860.69	860.52	860.28	
	860.36	860.60	860.77	860.60	860.36	
	860.49	860.73	860.90	860.73	860.49	
888+00	860.68	860.92	861.09	860.92	860.68	
	860.93	861.17	861.34	861.17	860.93	
	861.20	861.44	861.61	861.44	861.20	

| Sta. | 40' Right | 30' Right | 24' Right | 12' Right | Base Line | Profile Grade |
|---


Sta. 4+44.00 E: 1734.94 "B"
2+36.85 On Column
Elev. 662.70
-2.70%
Note: 8+04.48 "B" = 1466.72 "C.S."
+2.49%
NOSE: 15+31.08 "B", 6178.84 "D"
17+79 P.V.I. Elev. 682.444
650' V.C. M = 6.00'
Note: 17+69.08 "B": 6168.76 "N"
-4.90%
390' N.P.S.D.
7+09 P.V.I. Elev. 655.671
300' V.C. M = 7.67
& Lydia
& Vivian
& Tracy
& Powell
& Hassan
& Campbell
& Charlotte
NOSE: 30+94.15 "B".
11+97.88 "N"
-2.10%
-3.19%
970' N.P.S.D.
31+00 P.V.I. Elev. 680.769
400' V.C.
26+25 P.V.I. Elev. 640.794
400' V.C. M = 3.50
5
10
15
20
25
30


LANE "B"
30 M.P.H.
& Hassan
& Chester
NOSE: 39+01.14 "B".
15+84.66 "A"
-5.10%
11.49%
11+77.50 End
Elev. 640.88
Profile Grade & Base Line
36' Left
24' Left
12' Left
660
650
640
630

319

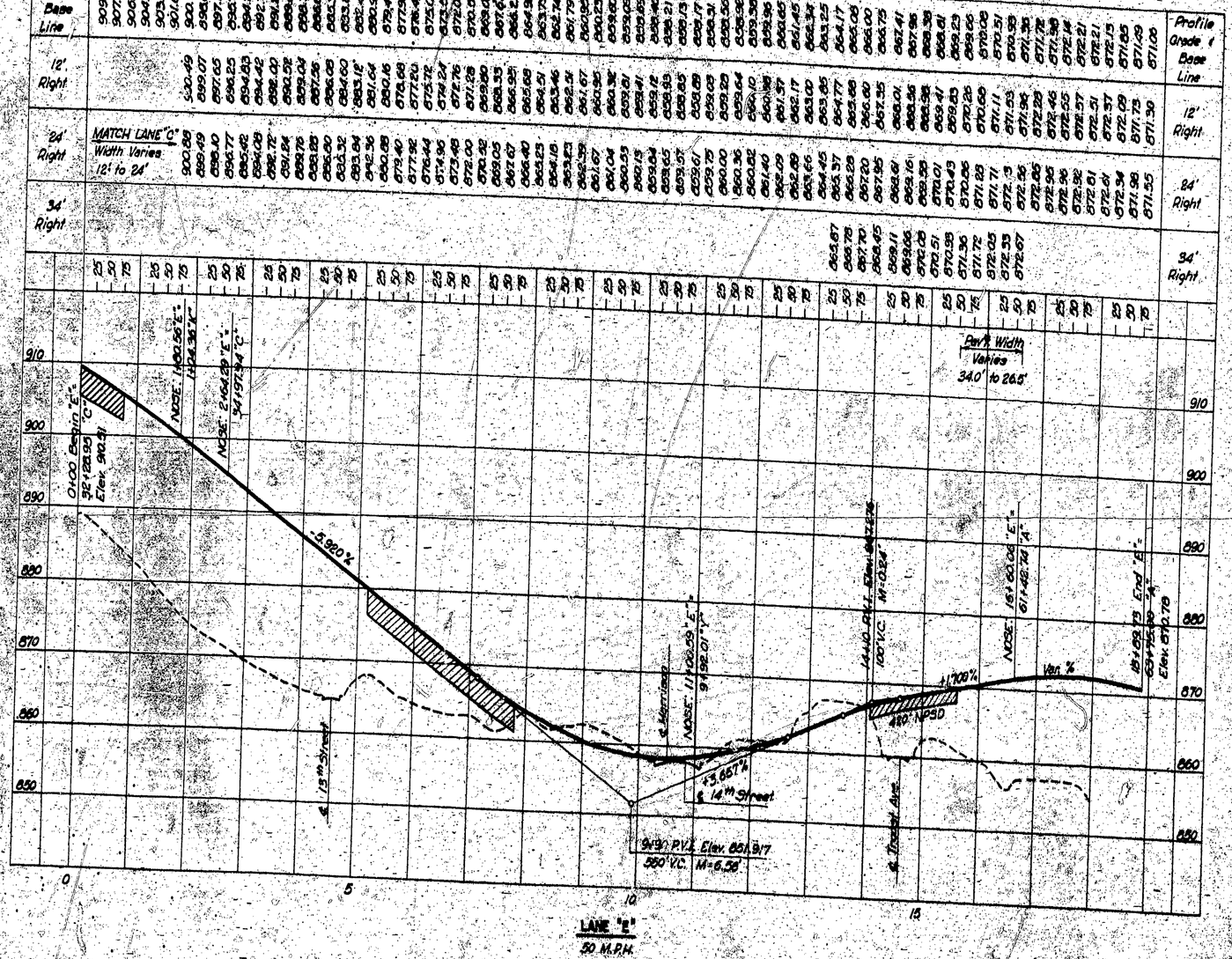


Profile Grade / Base Line	12' Left	12' Right	24' Right	36' Right
861.46				
862.40				
863.14				
863.77				
864.36				
864.95				
865.56				
866.15				
866.75				
867.34				
867.94				
868.52				
869.11				
869.70				
870.28	870.72	871.17		
870.79	871.25	871.72		
871.19	871.69	872.19		
871.45	872.03	872.62		
871.65	872.30	872.95		
871.82	872.51	873.20		
871.96	872.67	873.39		
872.09	872.81	873.53		
872.23	872.95	873.67		
872.37	873.09	873.81		
872.51	873.23	873.95		
872.71	873.43	874.15		
873.01	873.73	874.45		
873.39	874.11	874.83		
873.86	874.58	875.30		
874.36	875.08	875.80		
874.86	875.58	876.30		
875.32	876.04	876.76		
875.71	876.43	877.15		
876.03	876.75	877.47		
876.27	876.99	877.71		
876.44	877.16	877.88		
876.54	877.24	877.94		
876.56	877.22	877.88		
876.51	877.09	877.68		
876.38	876.86	877.34		
876.19	876.57	876.94		
875.92	876.22	876.52		
875.57	875.83	876.08		
875.15	875.39	875.63		
874.66	874.90	875.14		
874.10	874.34	874.58		
873.46	873.70	873.94		
872.84	873.08	873.32		
872.32	872.56	872.80		
871.92	872.16	872.40		
871.62	871.87	872.12		
871.42	871.70	871.98		
871.34	871.67	872.00		
871.36	871.76	872.16		
871.49	871.98	872.47		
871.73	872.33	872.93		
872.07	872.78	873.49		
872.52	873.32	874.12		
873.08	873.96	874.82		
873.75	874.67	875.59		
874.52	875.47	876.42		
875.40	876.36	877.32		
876.39	877.35	878.31		
877.48	878.44	879.40		
878.66	879.64	880.80		
879.99	880.96	881.91		
881.41	882.37	883.33		
882.88	883.84	884.80		
884.35	885.31	886.27		
885.82	886.78	887.74		
887.29	888.25	889.21		
888.76	889.72	890.68		
890.23	891.19	892.15		
891.70	892.66	893.62		
893.17	894.13	895.09		
894.64	896.60	896.56		
896.11	897.07	898.03		
897.58	898.54	899.50		
899.05	900.01	900.97		
900.52	901.48	902.44		
901.99	902.94	903.89		
903.46	904.39	905.31		
904.93	905.80	906.67		
906.40	907.20	908.01		
907.67	908.58	909.39		
909.34	910.00	910.86		
910.81	911.43	912.06		
912.26	912.86	913.46		
913.75	914.35	914.95		
915.23	915.80	916.36		
916.67	917.20	917.73		
918.08	918.56	919.04		
919.45	919.86	920.26		
920.74	921.07	921.40		
921.92	922.20	922.48		
922.98	923.23	923.46		
923.93	924.17	924.41		
924.79	925.05	925.27		
925.58	925.82	926.06		
926.29	926.53	926.77		
926.94	927.18	927.42		
927.51	927.75	927.99		
928.01	928.25	928.49		
928.50	928.73	928.92		
929.04	929.22	929.39		
929.50	929.65	929.86		
929.77	929.89	929.77		929.49
929.91	930.04	929.90		929.66
929.98	930.11	929.98		929.79

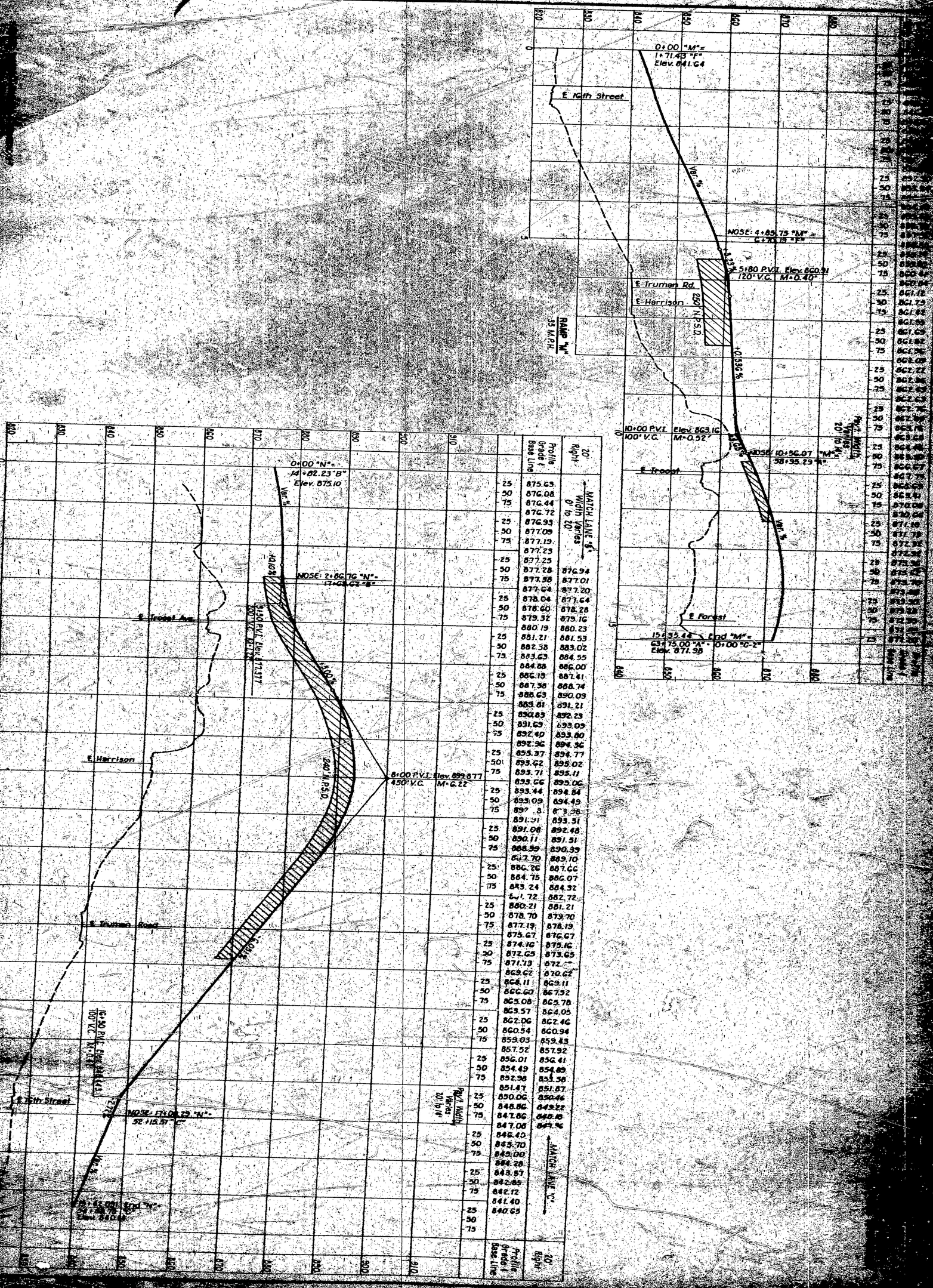
12' Left	24' Left

FINAL PLANS

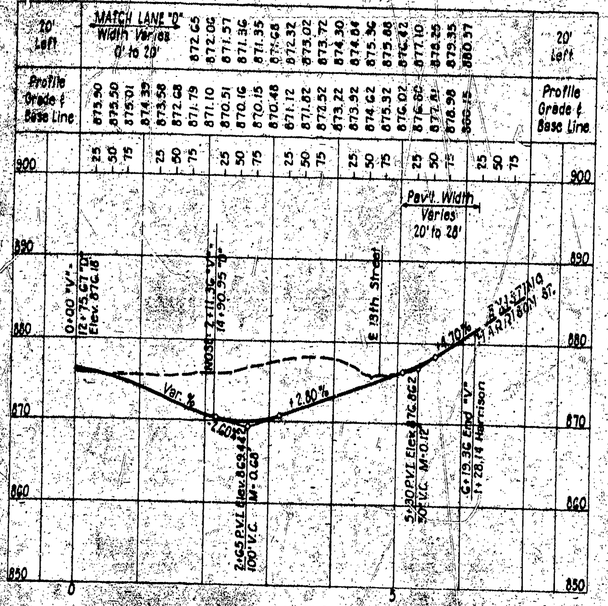
320

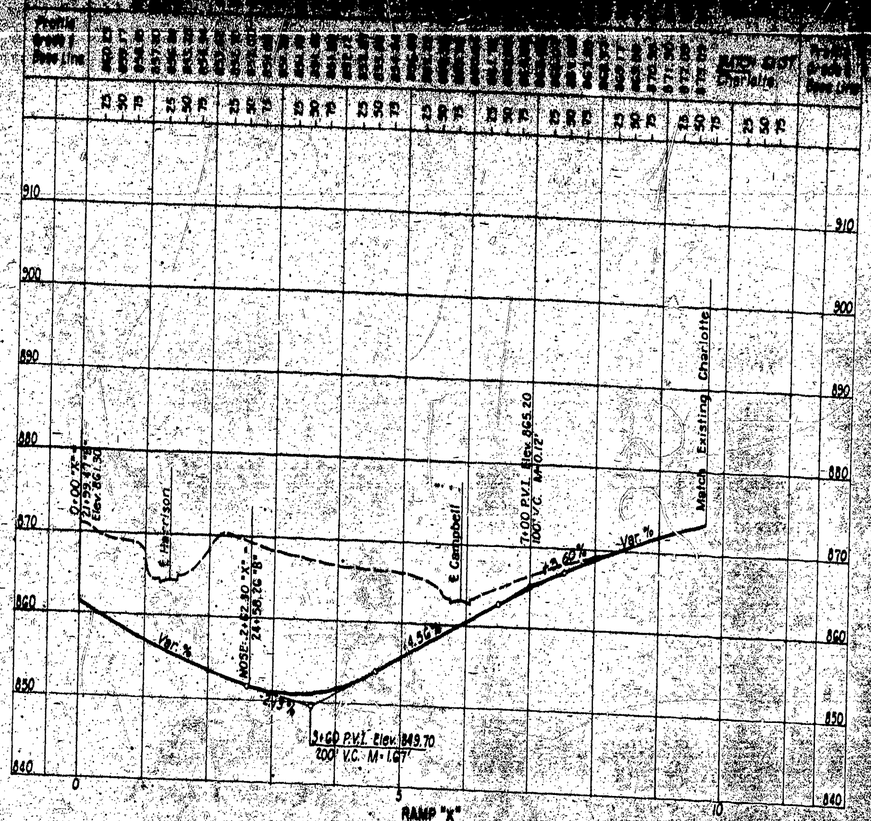


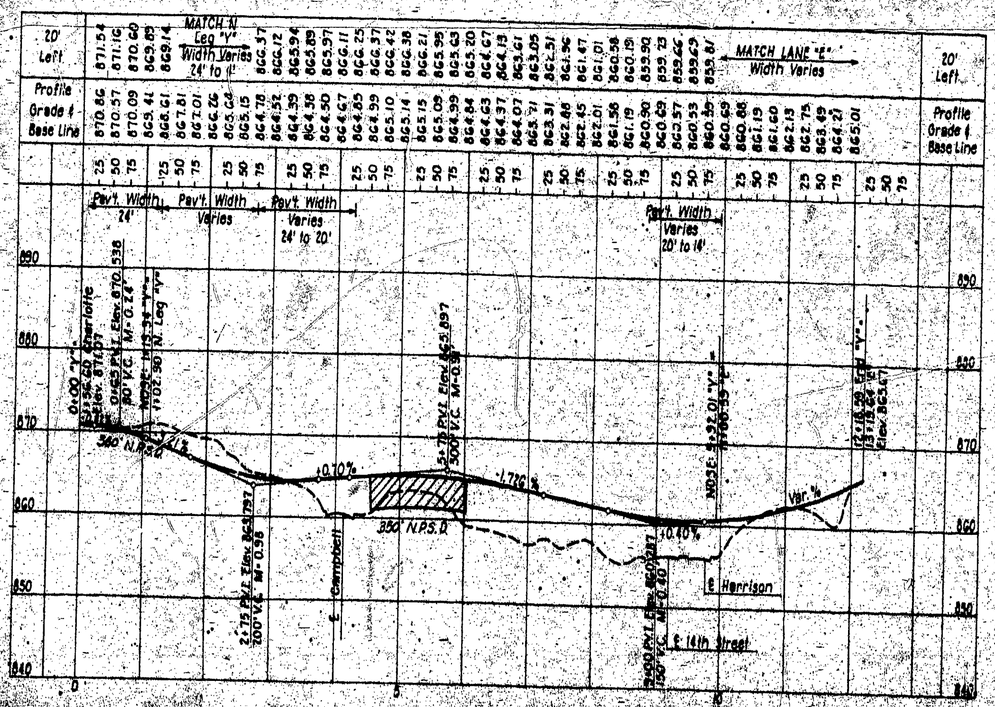
321

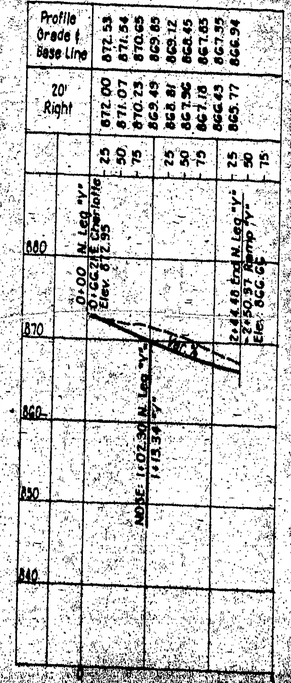


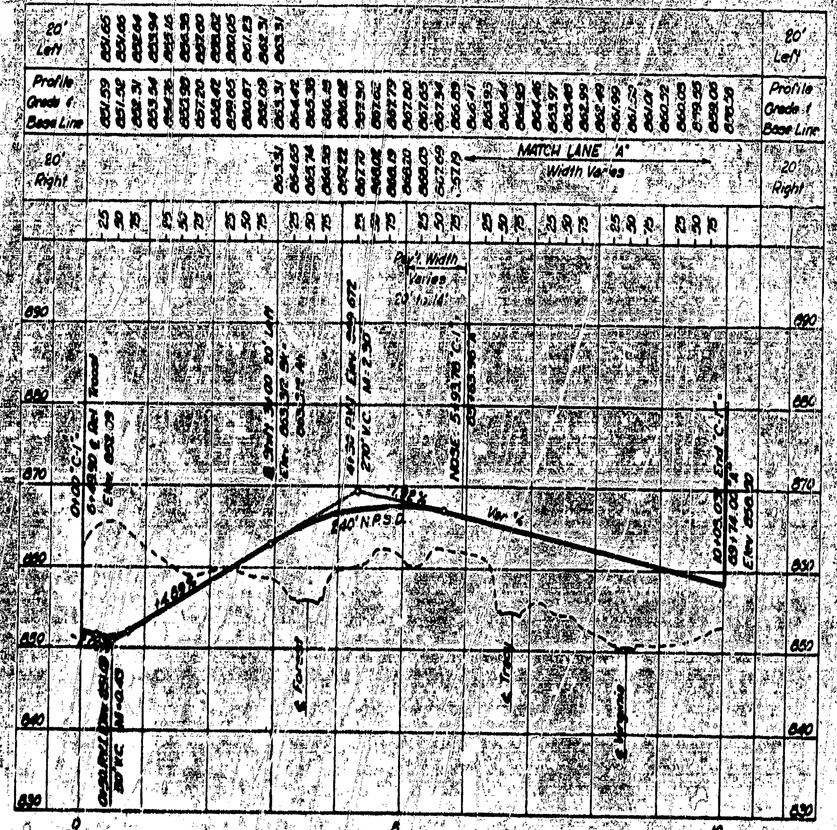
0+00 "M" = 1+71.43 "F" Elev. 841.64
℄ 16th Street
Var. %
NOSE: 4+85.75 "M" = 6+70.19 "F"
5+80 P.V.I. Elev. 860.91 120' V.C. M=0.40'
℄ Truman Rd.
℄ Harrison
250' N.P.S.D.
RAMP "M" 35 M.P.H.
10+00 P.V.I. Elev. 863.16 100' V.C. M=0.52'
NOSE: 10+56.07 "M" = 58+95.29 "A"
℄ Troost
℄ Forest
15+35.44 End "M" = 63+75.00 "A" = 0+00 "C-2" Elev. 871.98
Pav't. Width Varies 20' to 14'
0+00 "N" = 14+82.23 "B" Elev. 875.10
NOSE: 2+86.76 "N" = 17+63.62 "B"
℄ Troost Ave.
℄ Harrison
240' N.P.S.D.
8+00 P.V.I. Elev. 899.877 450' V.C. M=6.22
℄ Truman Road
℄ 16th Street
NOSE: 17+08.29 "N" = 52+15.51 "C"
MATCH LANE "B" Width Varies 0' to 20'
MATCH LANE "C"
Profile Grade & Base Line
20' Right

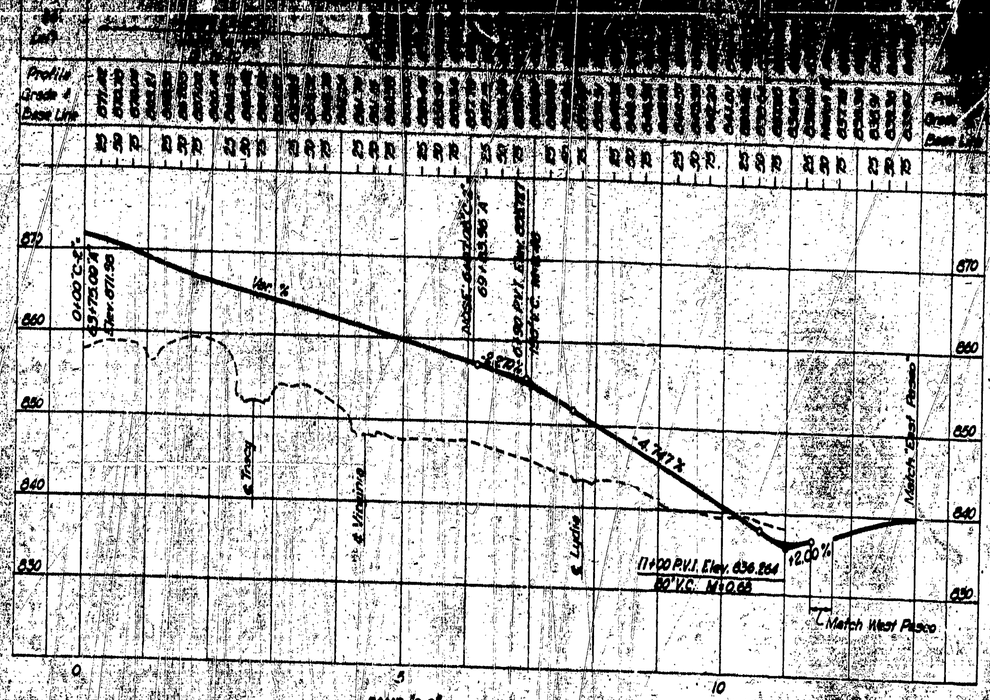

20' Left
MATCH LANE "D" Width Varies 0' to 20'
Profile Grade & Base Line
873.50 875.50 875.01 874.39 873.58 872.68 871.79 871.10 870.51 870.16 870.15 870.48 871.12 871.82 872.52 873.22 873.92 874.62 875.32 876.02 876.80 877.84 878.98 880.25
20' Left
Pav't. Width Varies 20' to 28'
0+00 "V"- 12+75.67 "D" Elev. 876.18
Var. %
2-65 P.V.I. Elev. 869.42 100' V.C. M= 0.65
NOSE 2+11.36 "V"- 14+90.95 "D"
+2.90%
E 13th Street
5+00 P.V.I. Elev. 876.62 300' V.C. M=0.12
+4.10%
NOSE 5+37.27 "V"- 19+87.80 "D"
6+19.36 End "V" - 1+78.14 Harrison
RAMP "V" 35 M.P.H.


Profile Grade & Base Line
NBP
Match Existing
0+00 "K"- 21+59.41 "D" Elev. 861.30
E Harrison
E Campbell
7+00 P.V.I. Elev. 865.20 100' V.C. M=0.12
+3.60%
Var. %
Match Existing Charlotte
NOSE 21+82.30 "K"- 24+58.76 "D"
-4.50%
-2.5%
3+60 P.V.I. Elev. 849.70 200' V.C. M=1.80
RAMP "K" 35 M.P.H.


20' Left
MATCH N Leg "V" Width Varies 24' to 0'
MATCH LANE "E" Width Varies
Profile Grade & Base Line
Pav't. Width 24'
Pav't. Width Varies
Pav't. Width Varies 24' to 20'
Pav't. Width Varies 20' to 14'
0+00 "V"- 13+56.20 "D" Elev. 870.53
0+65 P.V.I. Elev. 870.538 80' V.C. M=-0.24
NOSE 11+02.50 "V"- 11+38.36 "D" N. Leg "V"
360' N.P.S.D.
+0.10%
-1.76%
+0.40%
5+75 P.V.I. Elev. 863.897 500' V.C. M=0.96
2+75 P.V.I. Elev. 863.737 200' V.C. M=0.80
E Campbell
E Harrison
E 14th Street
NOSE 3+92.01 "V"- 3+00.33 "D"
7+18.28 End "V" - 5+18.24 "D" Elev. 863.47
RAMP "V"

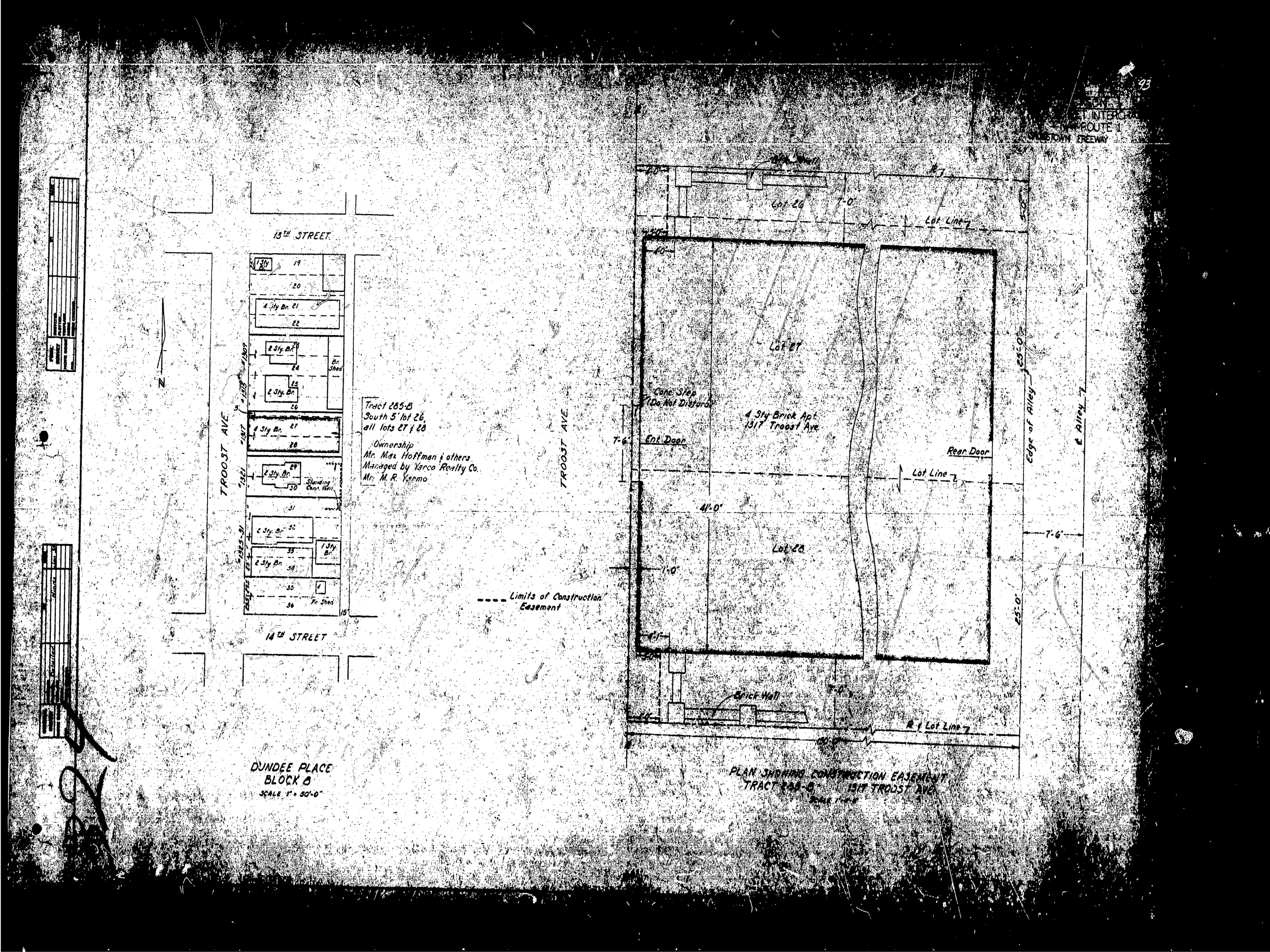

Profile Grade & Base Line
20' Right
0+00 N. Leg "V" - 0+66.26 Charlotte Elev. 872.95
NOSE 1+02.30 N. Leg "V" - 1+18.34 "D"
2+44.16 End N. Leg "V" - 2+50.57 Ramp "V" Elev. 866.64
RAMP "V"


MATCH LANE "A"
Width Varies
Var. %
1.40%
2.40% N.P.S.
Var. %
Nose: Sta. 5+97.78
Beg. P.V.I. Sta. 0+00
Elev. 668.59
Beg. P.V.C. Sta. 0+00
Elev. 668.59
End P.V.C. Sta. 4+32.78
Elev. 666.29
Beg. P.V.I. Sta. 4+32.78
Elev. 666.29
200' V.C.
M -0.46
Beg. P.V.C. Sta. 5+97.78
Elev. 666.29
End P.V.C. Sta. 7+97.78
Elev. 665.37
200' V.C.
M -0.46
Pav't. Width
Varies
20' to 44'
S. Tracy
S. Virginia
S. Lydia
0
5
10
RAMP "B-1"
35 M.P.H.

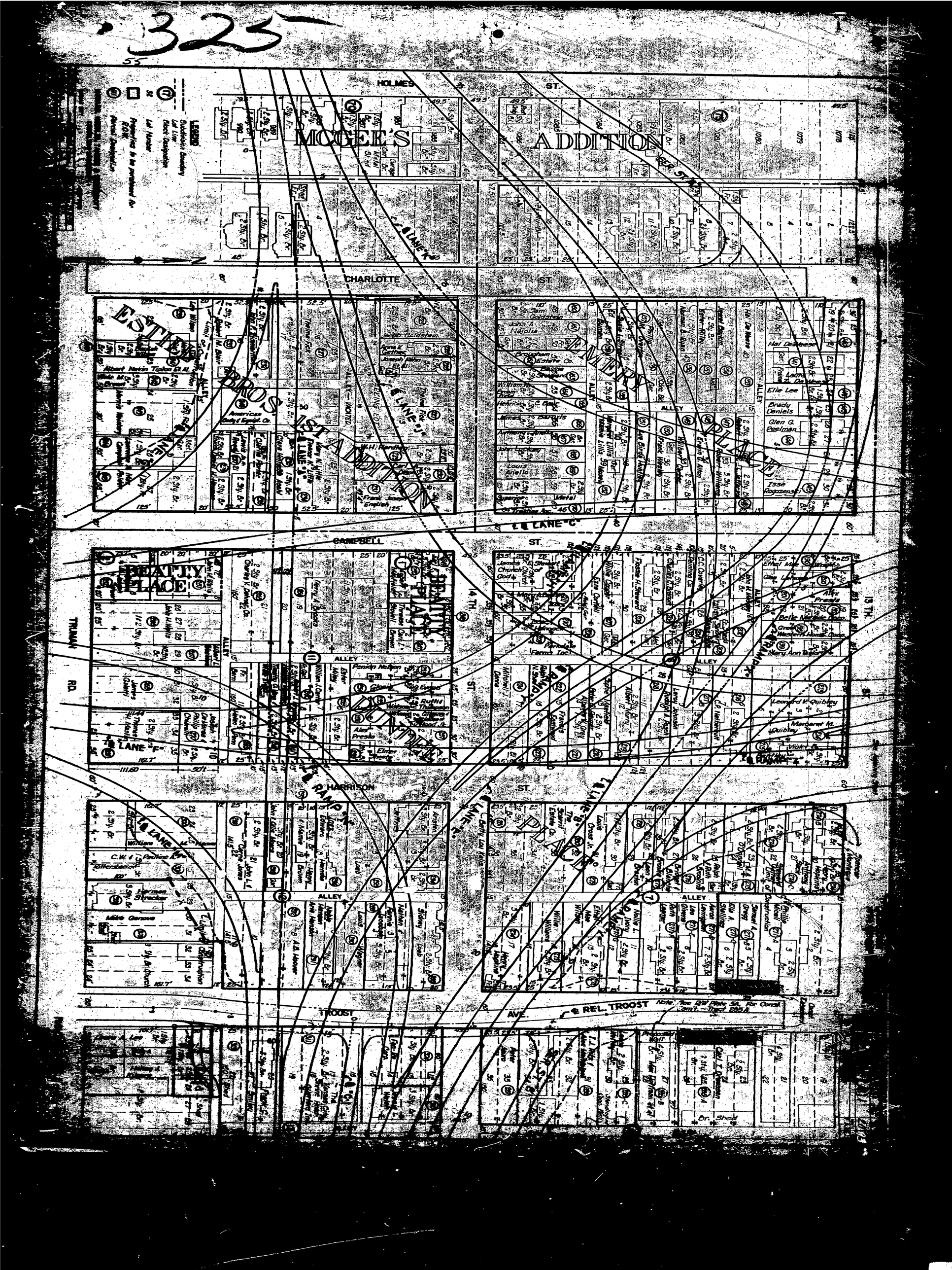

Nose: Sta. 6+39.56
Elev. 671.36
Beg. P.V.I. Sta. 6+39.56
Elev. 671.36
Beg. P.V.C. Sta. 6+39.56
Elev. 671.36
End P.V.C. Sta. 8+39.56
Elev. 667.36
200' V.C.
M -0.20
Var. %
-4.70%
-4.70%
-2.00%
-2.00%
11+00 P.V.I. Elev. 636.264
80' V.C. M +0.65
Match West Paseo
S. Tracy
S. Virginia
S. Lydia
0
5
10
RAMP "C-2"
35 M.P.H.

MATCH LANE "B"
Width Varies
MATCH LANE "D"
Width Varies 16' to 0'
MATCH EXISTING M^th St.
Pav't. Width
Varies
20' to M'
Nose: Sta. 4+11.25
Elev. 661.36
Beg. P.V.I. Sta. 4+11.25
Elev. 661.36
Beg. P.V.C. Sta. 3+91.25
Elev. 661.36
End P.V.C. Sta. 4+31.25
Elev. 661.36
Beg. P.V.I. Sta. 4+10.80
Elev. 661.36
End P.V.C. Sta. 4+30.80
Elev. 661.36
80' V.C.
M +0.20
Nose: Sta. 4+10.80
Elev. 661.36
80' V.C.
M -0.20
Var. %
+1.00%
+5.00%
Var. %
S. Lydia
S. Virginia
S. Tracy
0
5
RAMP "D-2"

323



93
INTERCHANGE
ROUTE 1
FREEWAY
13TH STREET
14TH STREET
TROOST AVE
1 Sty Br.
4 Sty Br.
2 Sty. Br.
Br. Shed
Standing Conc. Wall
1 Sty Br.
Fr. Shed
Tract 285-B
South 5' lot 26,
all lots 27 & 28
Ownership
Mr. Max Hoffman & others
Managed by Yarco Realty Co.
Mr. M. R. Yarmo
Limits of Construction Easement
DUNDEE PLACE
BLOCK 8
SCALE 1" = 50'-0"
Lot 26
Lot 27
Lot 28
Lot Line
Conc. Step (Do Not Disturb)
4 Sty Brick Apt
1317 Troost Ave
Ent. Door
Rear Door
Edge of Alley
℄ Alley
Brick Wall
41'-0"
7'-6"
25'-0"
PLAN SHOWING CONSTRUCTION EASEMENT
TRACT 285-B 1317 TROOST AVE



325
55
HOLMES ST.
MCGEE'S ADDITION
CHARLOTTE ST.
ESTIEN BROS. 1ST ADDITION
EMERY PLACE
CAMPBELL ST.
BEATTY PLACE
BEATTY PLACE
TRUMAN RD.
HARRISON ST.
TROOST AVE.
REL. TROOST
LANE "C"
LANE "F"
LANE "B"
LANE "E"
LANE "J"
LANE "K"
RAMP "Y"
RAMP "X"
RAMP "N"
RAMP "Z"
ALLEY
14 TH.
13 TH.
LEGEND
Subdivision Boundary
Lot Line
Block Designation
Lot Number
Properties to be purchased for R.O.W.
Parcel Designation

CROSSTOWN FREEWAY
14TH STREET INTERCHANGE

N

MUNFORD PLACE

MUNFORD AND FANCHER'S SUBDIVISION

OGLEBAY'S 1ST ADDITION

14TH ST.

SER. ST. "B" REL. 14TH ST.

CROSSTOWN FREEWAY

Limit of Construction

Limit of Construction

RAMP "C-1"

RAMP "C-2"

RAMP "C-3"

RAMP "N"

RAMP "M"

LANE "A"

LANE "B"

LANE "D"

ALLEY

FOREST AVE.

TRACY AVE.

VIRGINIA AVE.

LYDIA AVE.

James J. Benjamin

Lena Stone

Leo McClain

Hazel Robinson

Emma Gilmore & Rose Jenkins

Embee Barkley

Joseph Brennan

Sam Scavuzzo

Charles McWilliams

Grant & H. McClellan

Lee Kelly

Carrie L. Williams

W.D. Richmond

Carl Mazzella Shaw

Arzelia Wells

Essie Porter

Grant and Virginia McClellan

Elijah Spriggs

Mattie Fuller, Irene Williams, Elbert Adams and Louis Thomas

Ned Osborne & Clara Foster

Henry Davis & Joseph Jordan

Home Owners Inc.

Stanley and Fay Merrell

John E. Loyd

Leon & Lena Rainwater

Toby Fishman

Virginia L. Price Basil

John and Ruth White

Samuel and Curly Holmes

George Underhill

Commerce Trust Company

James L. Burton

Harry A. Mackenzie

Charles Hampton

Ella Blythe

General Jordan

Theodore Mirgeler

E. Clay Borchers

W.P. Robinson

Fred Castleberry

Allen Shaw Jr.

James D. and Carrie Louis

Leroy M. Bridge

James C. Rieder

Lora Ault

Jessie Ault

Welding Laboratories Inc.

Vrooman

Strauss

Benjamin Fitzpatrick

A.J. Rupert

Cleotis & Johnsie Bonnen

Toby Fishman

Gary Realty Co.

Fines and Carrie Harris

Edward and Mattie Grayer

James Everette

M.L. Washington

John T. Therriton

C. Lillian P. Therriton

Carrie R. Morgan

W.A. Drye

L.A. Wilson & L. Johnson

Church Br.

Della Fox

Jos. Adamo Est.

Fan Ro Corp.

Stone

Shed

Gar.

Bl. Wall

Conc. Blk. Wall

Conc. Wall

Fr. Shed

Gar. Bl.

Gar. Metal

Gar. Frame

Gar. Brick

Gar. Asbestos

Gar. Asphalt

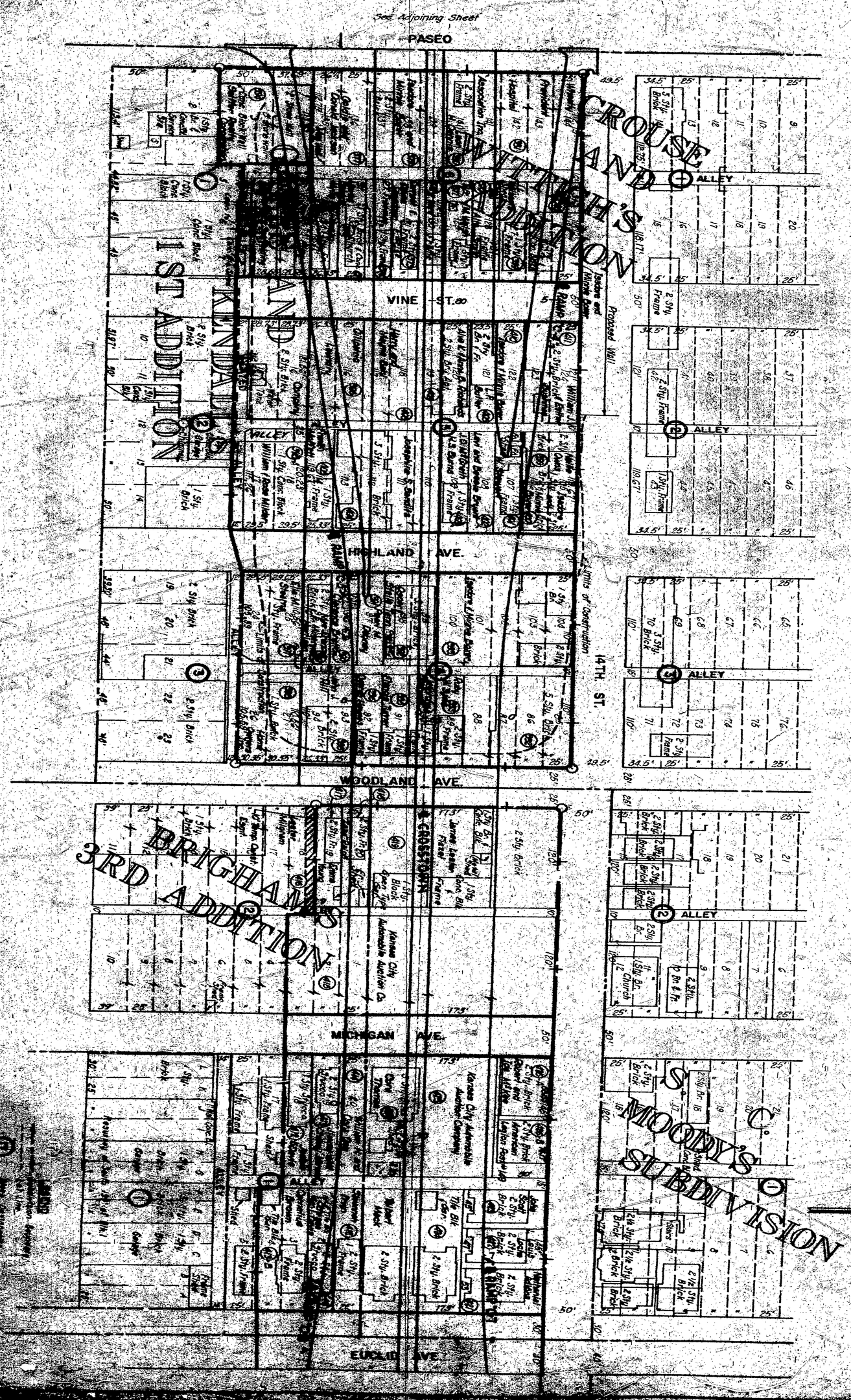
Gar. Concrete

Gar. Stone

Gar. Wood

Gar. Shed

327



See Adjoining Sheet
PASEO
CROUSE AND WITTICH'S ADDITION
KENDALL'S 1ST ADDITION
VINE ST.
HIGHLAND AVE.
WOODLAND AVE.
MICHIGAN AVE.
EUCLID AVE.
14TH. ST.
ALLEY
BRIGHAM'S 3RD ADDITION
S. C. MOODY'S SUBDIVISION
Proposed Wall
Limits of Construction

93

CO. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	I-70-1(81)		23	93
DIST NO. 4	COUNTY JACKSON		ROUTE NO. 70 FAI-		

CROSSTOWN FREEWAY
14th STREET INTERCHANGE

FINAL PLANS

HARRISON ST.

ST. Approach Track

ST.

RAMP "N"

RAMP "Z"

RAMP Z CONN

LANE "F"

LANE "D"

LANE "J"

RAMP "Y"

LANE "E"

RAMP "X"

LANE "B"

LANE "C"

LANE "C"

LANE "K"

LANE "H"

CAMPBELL ST.

11TH

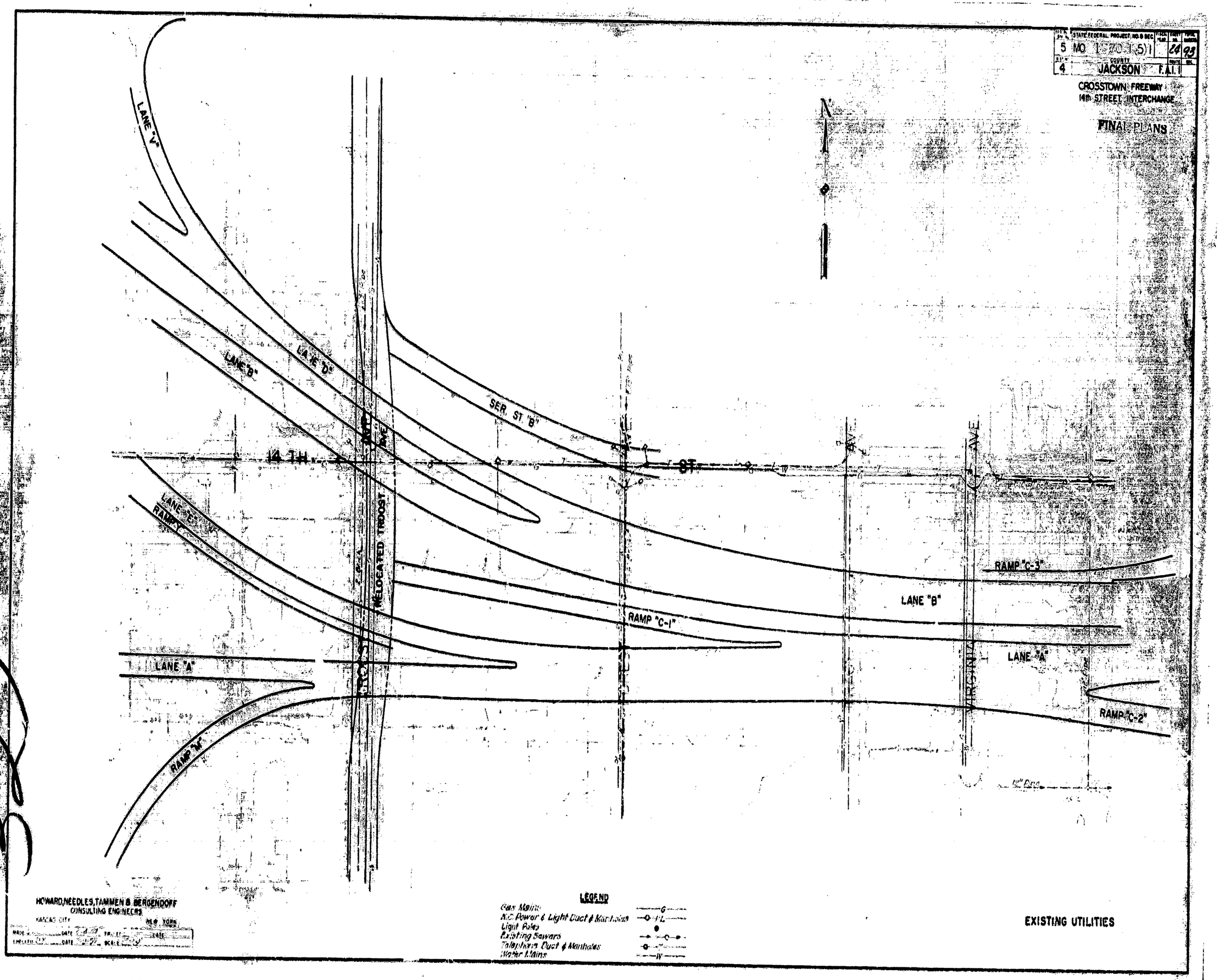
12TH

13TH

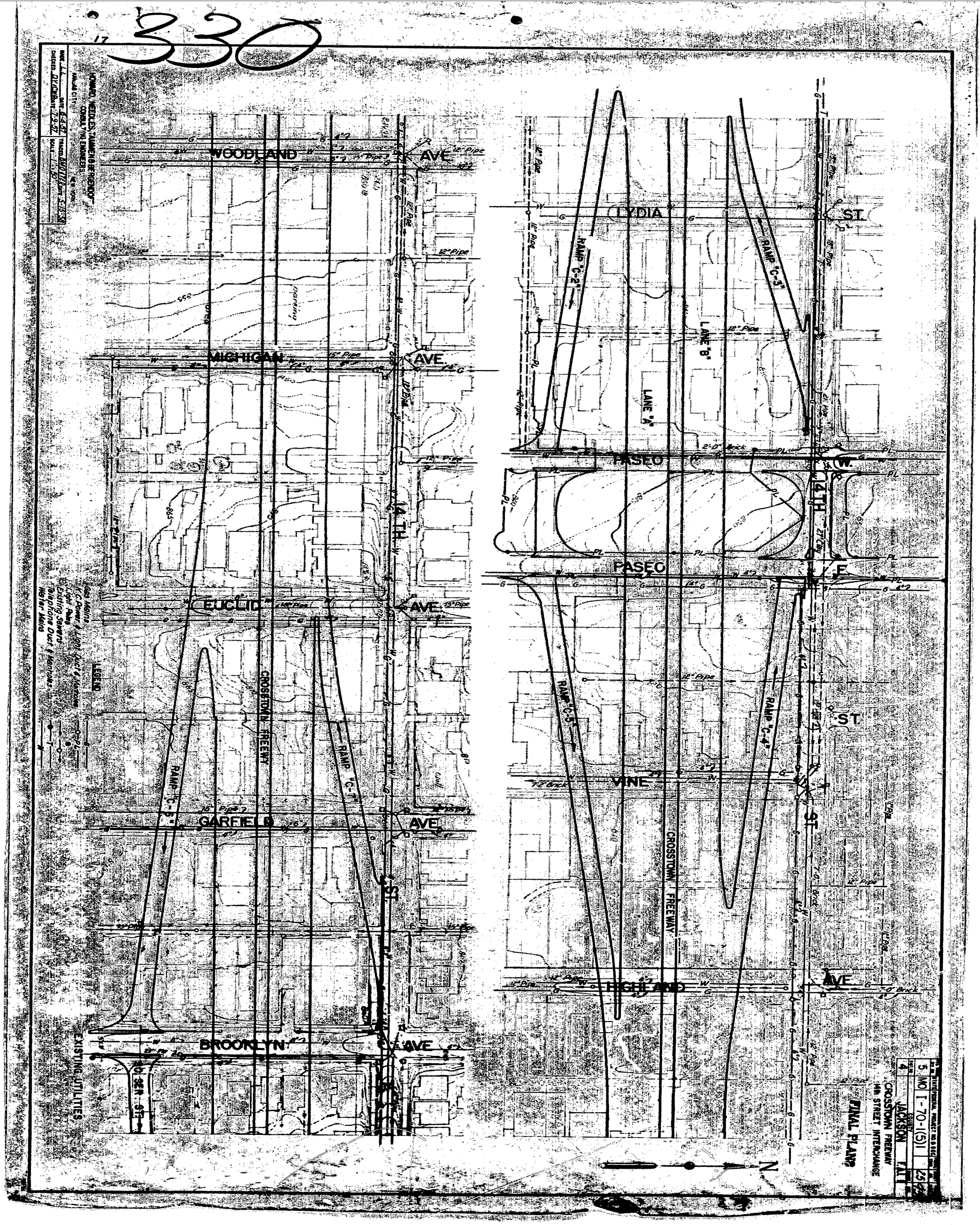
Match Line

Match Line

Match Line



STATE FEDERAL PROJECT NO. & SEC.
5 MO 1-70(5)1
24 93
4 JACKSON F.A.I.1
CROSSTOWN FREEWAY
14th STREET INTERCHANGE
FINAL PLANS
N
LANE "V"
LANE "D"
LANE "B"
SER. ST. "B"
14 TH
ST
AVE
LANE "E"
RAMP "Y"
RELOCATED TROOST
TROOST
RAMP "C-3"
LANE "B"
RAMP "C-1"
LANE "A"
LANE "A"
RAMP "C-2"
RAMP "M"
VIRGINIA
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY
NEW YORK
LEGEND
Gas Mains
K.C. Power & Light Duct & Manholes
Light Poles
Existing Sewers
Telephone Duct & Manholes
Water Mains
EXISTING UTILITIES

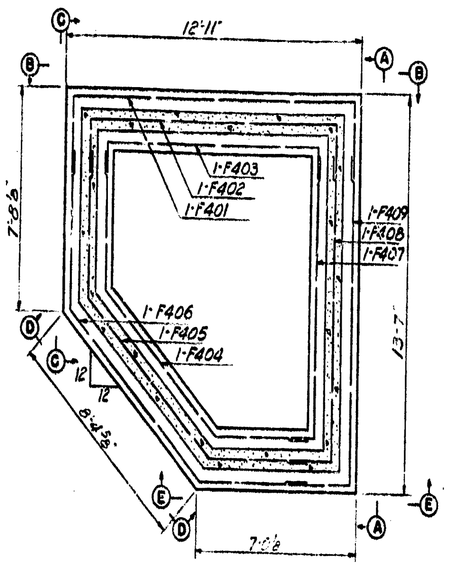

330
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY
NEW YORK
MADE L.L. DATE 6-4-57
CHECKED DY/CW DATE 7-9-57
TRACED BMO/TEP DATE 5-15-58
SCALE 1" = 50'
WOODLAND AVE
MICHIGAN AVE
EUCLID AVE
GARFIELD AVE
BROOKLYN AVE
14TH ST
CROSSTOWN FREEWAY
RAMP "C-5"
RAMP "C-7"
RAMP "C-2"
RAMP "C-3"
RAMP "C-4"
RAMP "C-5"
LYDIA ST
PASEO W
PASEO E
VINE ST
HIGHLAND AVE
LANE "A"
LANE "B"
LEGEND
Gas Mains
K.C. Power & Light Duct & Manholes
Light Poles
Existing Sewers
Telephone Duct & Manholes
Water Mains
EXISTING UTILITIES
N
5 MO I-70-1(5)1 25
4 JACKSON F.A.I.
CROSSTOWN FREEWAY
14th STREET INTERCHANGE
FINAL PLANS

MISSOURI STATE HIGHWAY DEPARTMENT

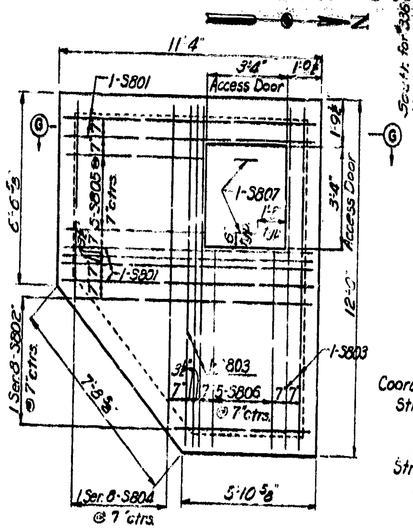
FINAL PLANS

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	I-70-1(5)1		26	33
DIST. NO.	COUNTY			ROUTE	SEC. NO.
4	JACKSON	F.A.I. 1			

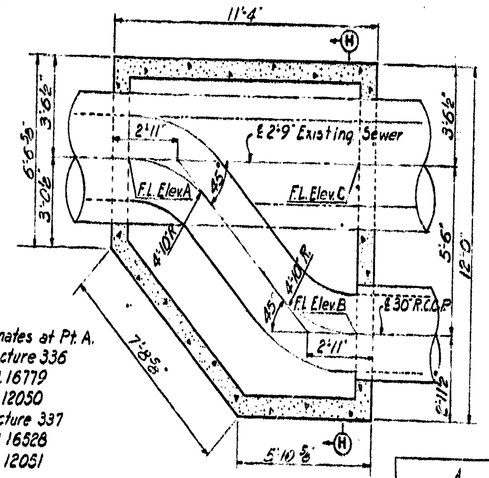
CROSSTOWN FREEWAY
14 TH STREET INTERCHANGE



FOOTING PLAN

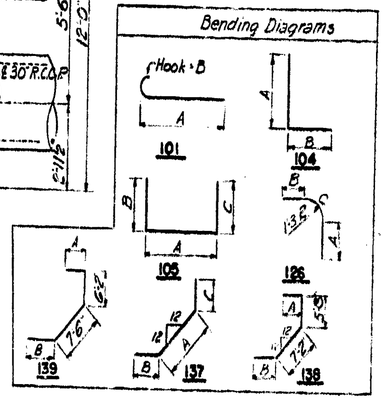


SLAB PLAN



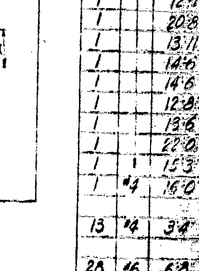
Coordinates at Pt. A.
Structure 336
N. 16779
E 12050
Structure 337
N 16528
E 12051

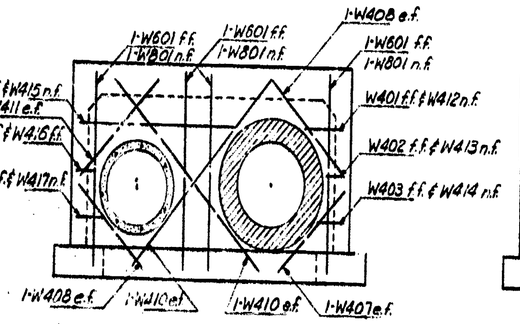
Table of Flow Line Elevations		
Pt.	Structure #336	Structure #337
A	841.70	837.70
B	841.45	837.95
C	841.55	837.85



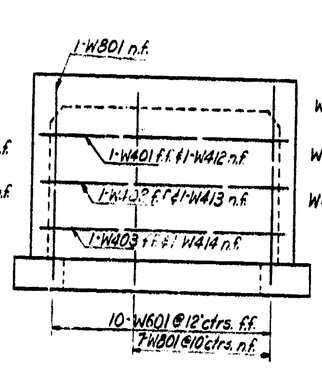
Bill of Reinforcing Steel							
Bent Bars							
No.	Size	Length	Mark	Type	Dimensions A	B	C
1	#4	19'7"	F401	105	12'5"	3'7"	3'7"
1		15'2"	F402	105	10'5"	2'7"	2'7"
1		11'7"	F403	105	8'5"	1'7"	1'7"
1		14'4"	F404	137	6'6"	4'3"	3'7"
1		16'0"	F405	137	7'4"	4'8"	4'0"
1		17'8"	F406	137	8'2"	5'1"	4'5"
1		10'5"	F407	104	8'10"	1'7"	
1		12'5"	F408	104	9'10"	2'7"	
1	#4	14'5"	F409	104	10'10"	3'7"	
1	#4	13'1"	W401	105	10'1"	1'7"	1'5"
1		11'3"	W402	105	10'1"	7"	7"
1		12'1"	W403	105	10'1"	11"	1'1"
1		20'8"	W404	138	6'7"	1'3"	
1		13'11"	W405	138	8"	5'1"	
1		14'5"	W406	138	11"	9"	
1		14'6"	W412	105	10'10"	1'7"	1'9"
1		12'8"	W413	105	10'10"	11"	1"
1		13'6"	W414	105	10'10"	1'3"	1'5"
1		22'0"	W415	139	6'11"	1'5"	
1		15'3"	W416	139	1'0"	7"	
1	#4	16'0"	W417	139	1'3"	1'1"	
13	#4	3'4"	D401	105	1'4"	1'0"	1'0"
28	#6	6'8"	W601	101	6'0"	8"	
2	#8	3'0"	S807	105	1'0"	1'0"	1'0"
29	#8	8'11"	W801	126	4'6"	2'5"	2'0"

Straight Bars			
No.	Size	Length	Mark
25	#4	1'8"	D402
6	#4	3'9"	W407
6		4'0"	W408
2		3'6"	W409
6		8'6"	W410
4	#4	4'6"	W411
6	#8	11'0"	S801
4		15'5"	S802
5		11'8"	S803
4		18'1"	S804
5		5'9"	S805
5	#8	6'5"	S806

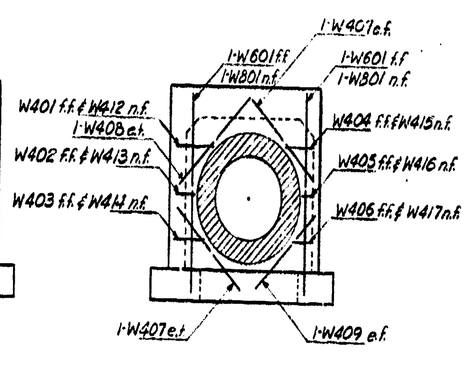




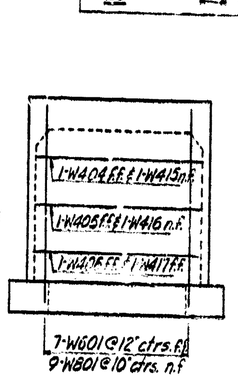
ELEVATION A-A



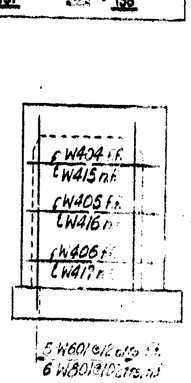
ELEVATION B-B



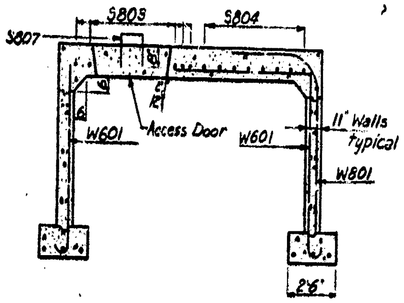
ELEVATION C-C



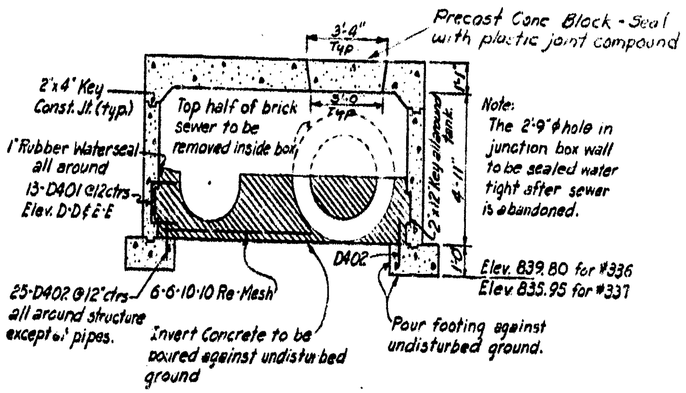
ELEVATION D-D



ELEVATION E-E



SECTION G-G



SECTION H-H

QUANTITIES		
Structure #	336	337
Class B Concrete	14.7 C.Y.	14.7 C.Y.
Class B Concrete (Invert)	4.5 C.Y.	4.5 C.Y.
Reinforcing Steel	218.9 Lbs.	218.0 Lbs.
Class 3 Excavation	115.0 C.Y.	103.0 C.Y.

JUNCTION CHAMBER DETAILS
STRUCTURE NO. 337 (AS SHOWN)
STRUCTURE NO. 336 (OPP. HAND & AS NOTED)

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

DRAWN	KAW	DATE 3-22-58	TRACED DATE
CHECKED	JPS	DATE 3-24-58	SCALE

NOTE: This drawing is not to scale. Follow dimensions.

NO.	DATE	REVISION	BY
1	9-10-58	General Revision	KAW

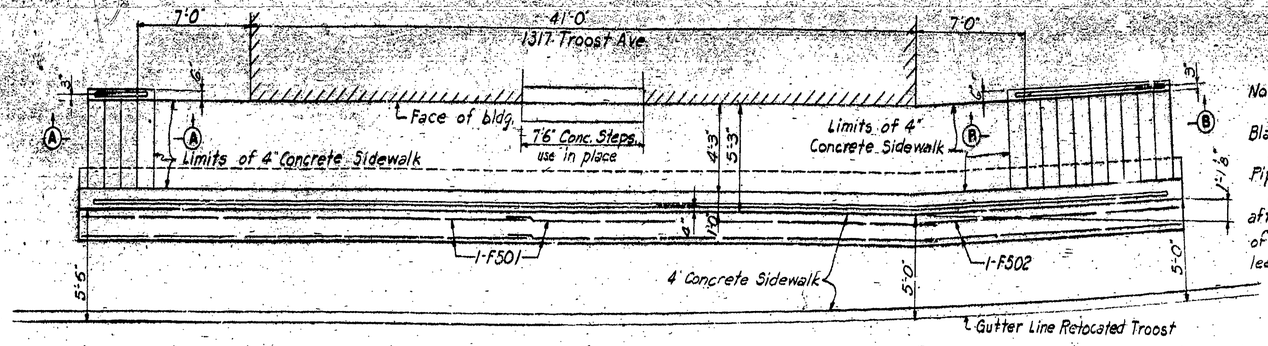
SHEET 1 OF 1

337

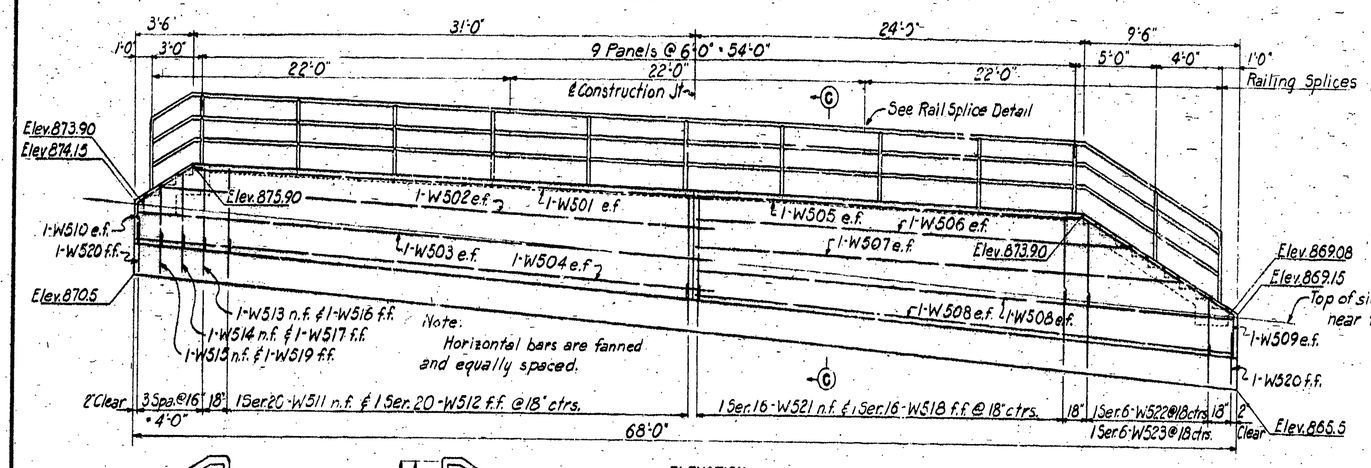
MISSOURI STATE HIGHWAY DEPARTMENT

4	I-70-1(5)1	271
4	JACKSON F.A.I. 1	

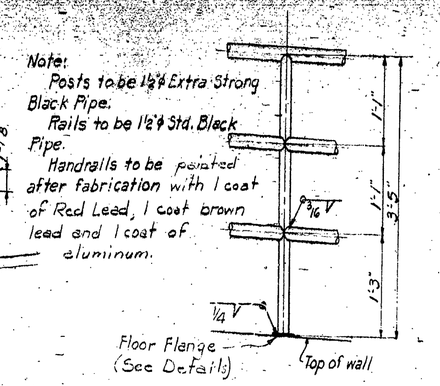
CROSSTOWN FREEWAY
14TH STREET INTERCHANGE



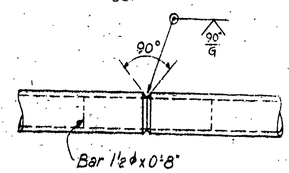
PLAN



ELEVATION



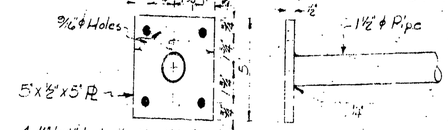
POST DETAILS



Bar 1½ ϕ x 0'-8" Tack weld to one side in shop.

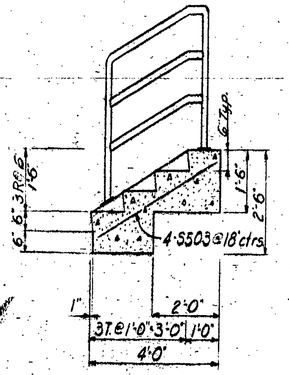
RAIL SPLICE DETAIL

PIPE RAIL DETAILS

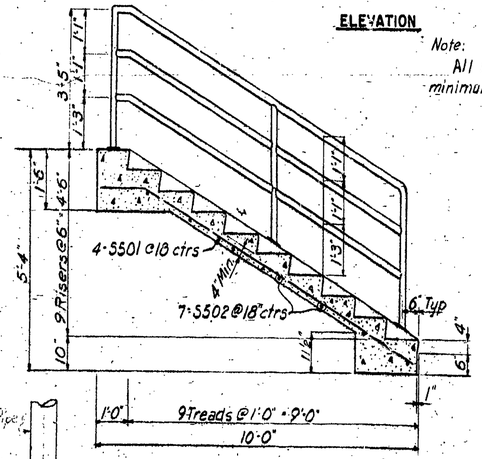


4-½" ϕ x 6" lg. bolts, Hex. Hds. & Nuts with 4 washers for each plate

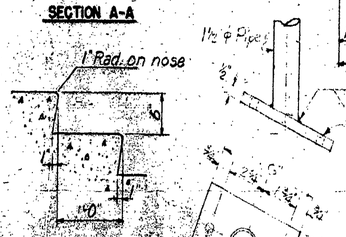
FLOOR FLANGE DETAIL



SECTION A-A



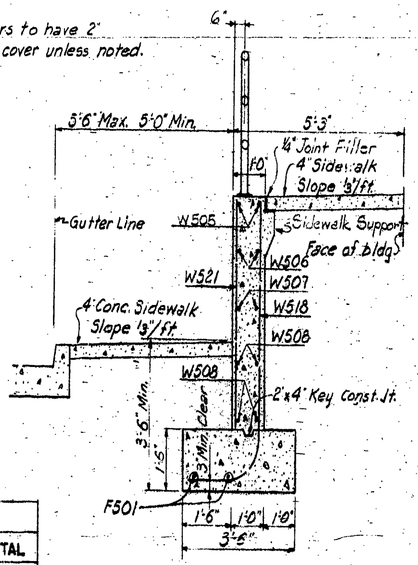
SECTION B-B



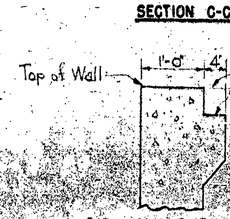
TREAD DETAIL

6-4" x ½ Pl.
2-5/8 x 6" long bolts, Hex. Hds. & Nuts with 2 Washers for each plate

FLOOR FLANGE DETAILS

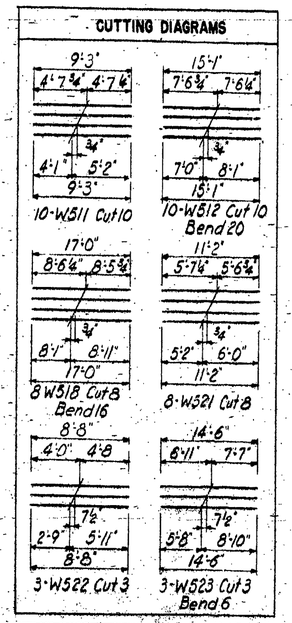


SECTION C-C



SIDEWALK SUPPORT DETAIL

CUTTING DIAGRAMS



BILL OF REINFORCING STEEL

STRAIGHT BARS

NO.	SIZE	LENGTH	MARK
7	#5	3'-11"	S502
4	#5	4'-1"	S503
4	#5	27'-4"	F501
2	#5	16'-4"	F502
2	#5	32'-6"	W501
2		34'-6"	W502
2		35'-10"	W503
2		36'-0"	W504
2		23'-11"	W505
2		26'-9"	W506
2		30'-3"	W507
4		33'-5"	W508
10		9'-3"	W511
1		4'-1"	W513
1		3'-5"	W514
1		2'-9"	W515
8		11'-2"	W521
3	#5	8'-8"	W522

BENT BARS

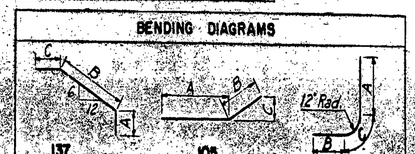
NO.	SIZE	LENGTH	MARK	TYPE	DIMENSIONS A	B	C
4	#5	10'-8"	S501	105	9'-4"	1'-4"	7'8"
2	#5	13'-11"	W509	137	2'-0"	10'-3"	1'-8"
2		7'-3"	W510	137	2'-0"	3'-1"	1'-8"
10		15'-1"	W512	126	Varies	1'-1"	1'-7"
1		7'-0"	W516	126	4'-4"	1'-1"	1'-7"
1		6'-4"	W517	126	3'-8"	1'-1"	1'-7"
8		17'-0"	W518	126	Varies	1'-1"	1'-7"
1		5'-8"	W519	126	3'-0"	1'-1"	1'-7"
2		4'-7"	W520	126	1'-11"	1'-1"	1'-7"
3	#5	14'-6"	W523	126	Varies	1'-1"	1'-7"

ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	TOTAL
1-I	Class 3 Excavation for Structure	Cu. Yds.	83
16-B	Class B Concrete	Cu. Yds.	28.0
19-A	Reinforcing Steel	Lbs.	1482
S.P.	Pipe Railing	Lin. Ft.	82
26-A	4" Concrete Sidewalk	Sq. Yds.	7.1

NOTE: This drawing is not to scale. Follow dimensions.

BENDING DIAGRAMS



137 105 126

GENERAL NOTES

Design Specifications: A.A.S.H.O. 1953.

Construction Specifications: Missouri Standard Specifications for State Roads, Materials, Bridges, Culverts, and Incidental Structures 1955.

Concrete: All concrete to be Class B f'c = 1200 p.s.i.

Reinforcing Steel: Allowable stress 20,000 p.s.i.. All splices in reinforcing steel shall be 32 bar diameters.

Bar sizes are designated on the plans by the first digit after the letter in the bar marks.

All bending dimensions are 'out' to 'out' of bars.

Hooks and bends shall be in accordance with A.A.S.H.O. Manual of Standard Practice for Detailing Reinforced Concrete Highway Structures.

Floor Flanges: Cost to be included in price bid for other items.

Bench Mark #11. No. A-8, L&T, Northwest Corner of 13th and Troost. Elev. 884.11.

Paint: Red Lead Specification 57-41A
Brown Lead Specification 57-41B
Aluminum Specification 57-44B

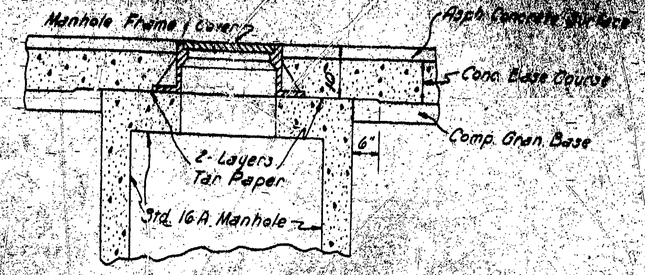
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

DRWN. KAW DATE 9-19-58 TR'CED DATE
CK'D DATE 3-26-59 SCALE

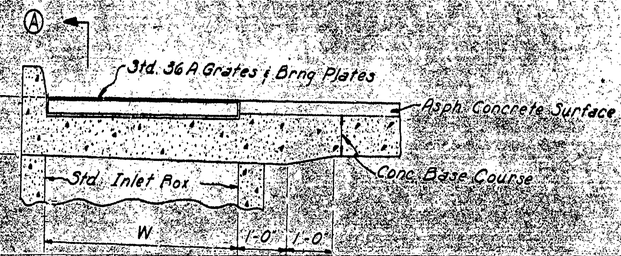
RETAINING WALL ALONG TROOST AVENUE

STATE ROAD U.S. KANSAS CITY, MO.
PROJECT NO. U.S. STA.
JACKSON COUNTY

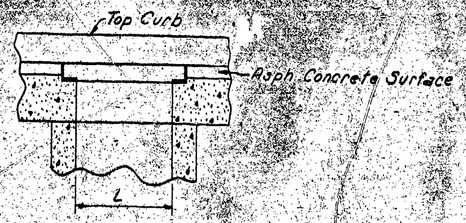
SHEET OF



ASPHALTIC CONCRETE SURFACING DETAIL
FOR STANDARD MANHOLE

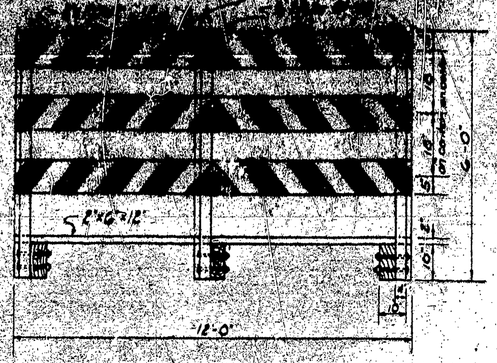


ASPHALTIC CONCRETE SURFACING DETAIL
FOR INLET TOP

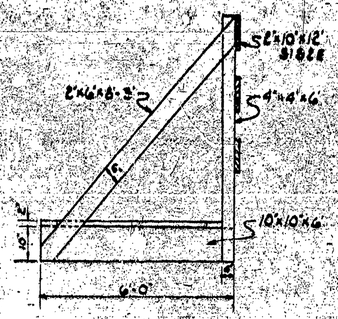


SECTION A-A
MODIFICATION OF STD. DETAILS - MANHOLES
AND INLETS FOR ASPHALTIC CONCRETE SURFACE
(See Std. Drawings for all other details)

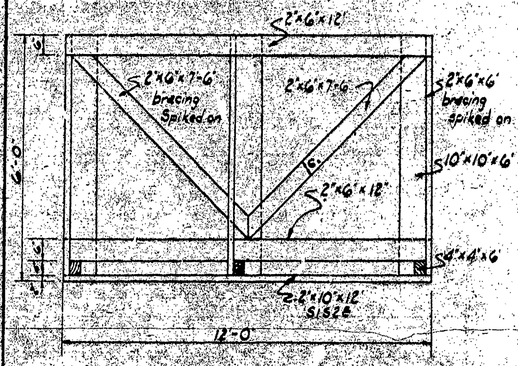
MODIFICATION OF STD. DETAILS FOR
AND INLETS FOR



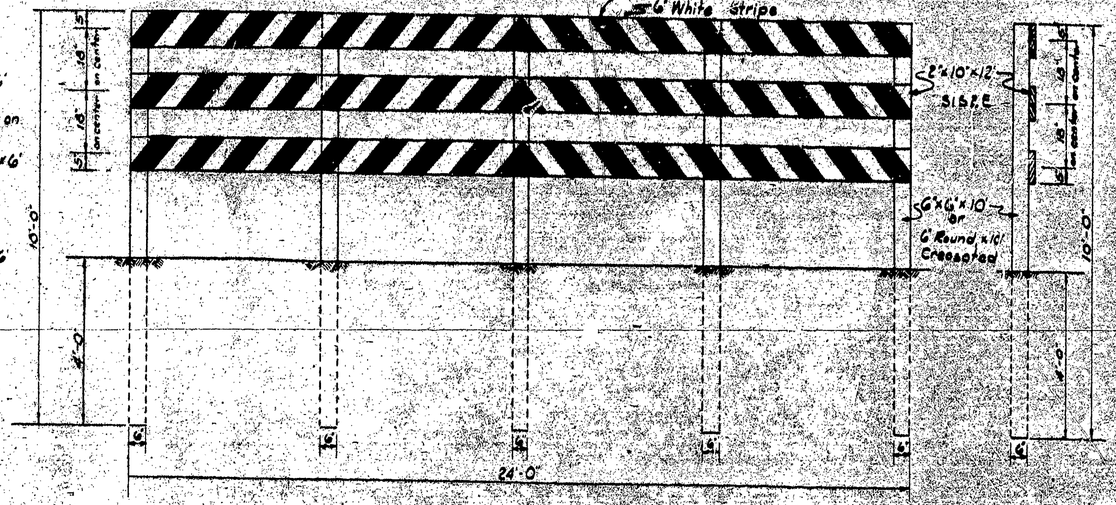
Front Elevation



Side Elevation
MOVABLE BARRICADE



Plan View
MOVEABLE BARRICADE



Front Elevation

Side Elev.



Plan View
PERMANENT BARRICADE

NOT Drawn to Scale - Follow Dimensions!

General Notes:

All wood to be striped shall receive a prime coat of white paint on all faces and ends prior to assembly of the barricade. For a finish coat the front Side (Side visible to approaching traffic) of the assembled barricade shall be reflectorized for night visibility, through the provision of diagonal white beaded stripes, separated by dull black stripes. One of the following two methods of reflectorizing with glass beads shall be used:

(a) White or silver reflective sheeting may be afixed to the barricade boards by means of an adhesive.

(b) The barricade boards may be painted with white paint to form the white diagonals, and sign quality glass beads poured or sprayed uniformly over the wet paint. The dull black intervening stripes may be then painted after the beaded white surfaces are dry.

All other wood shall be coated with creosote oil to the extent that the wood will readily absorb it.

4"x4" and 10"x10" timbers in the movable barricade shall be bolted together at the base as indicated. All other members shall be securely spiked at all connections.

MISSOURI STATE HIGHWAY COMMISSION

SPECIAL BARRICADES

ROUTE FAI-1 PROJ. I-70-1(5)

COUNTY [illegible]

SPECIAL [illegible]

LIST OF STANDARD PLANS

PROJ.	SHEET
I-70-1(5)1	30
CO. JACKSON	RTE. F.A.I.-1

1TR-2	(8-20-52)		
15CN-1	(3-57)		
15DE-9			
15E-19	(5-55)		
16A-2	(5-56)		
24A-5	(4-22-55)		
25BB-7	(5-56)		
26A-10	(5-55)		
27A-19	(6-58)		
28B-2	(1-54)		
36A-21	(1-58)		
36B-3	(3-29-54)		
36E-11	(2-26-57)		
36G-4	(3-29-54)		
C110R6			

335

Fed. Road Dist. No.	State	Project	Fiscal Year	Sheet No.	Total Sheets
6	MO.	I-70-1(7)2		1	263
Div. No.	County			Route	Sec. No.
4	JACKSON			I-70	

MISSOURI
STATE HIGHWAY COMMISSION
PLAN AND PROFILE
OF PROPOSED
STATE ROAD

FEDERAL AID PROJECT

JACKSON COUNTY

SCALES PLAN
PROFILE HOR
CROSS-SECTIONS

FINAL PLANS

FULLY LIMITED ACCESS HWY.

This shall be a fully limited access highway between Station 74+50.03 and Station 50+50.00. No abutting owner shall have the right of direct access to said highway or its right of way except that access will be permitted to any adjacent outer roadway to which access is not specifically prohibited by the special symbol denoting "No Right of Access" as shown on the plans.

LEGEND

- Beginning and Ending of Limited Access
- Limited Access
- No Right of Access

LOCUST ST.
14 TH ST.
CHERRY ST.
ADMIRAL
6TH STREET
HOLMES ST.
MISSOURI
5 TH
4 TH
CHARLOTTE ST.
AVE.
CAMPBELL ST.
CHARLOTTE ST
CAMPBELL
RAMP "D"
RAMP "A"
RAMP "B"
RAMP "C"
RAMP "E"
RAMP "F"
RAMP "G"
RAMP "H"
RAMP "I"
RAMP "J"
RAMP "K"
RAMP "L"
RAMP "M"
RAMP "N"
RAMP "O"
RAMP "P"
RAMP "Q"
RAMP "R"
RAMP "S"
RAMP "T"
RAMP "U"
RAMP "V"
RAMP "W"
RAMP "X" CONNECTION
RAMP "Y"
MIDTOWN FREEWAY
HARRISON
TRUMAN RD.
12 TH
11 TH
10 TH
9 TH
8 TH
TROOST AVE.
RELOC. TROOST
FOREST AVE.
TRACY AVE.
VIRGINIA AVE.
LYDIA AVE.
PASEO
INDEPENDENCE AVE.
PACIFIC
HARRISON ST.
RELOCATED TROOST
SERVICE STREET
LANE A
LANE B
LANE C
LANE D
LANE E
LANE F
LANE G
LANE H
LANE I
LANE J
LANE K
LANE L
LANE M
LANE N
LANE O
LANE P
LANE Q
LANE R
LANE S
LANE T
LANE U
LANE V
LANE W
LANE X
LANE Y
TEMP 14th St. Connection
Sta 12+50.59 Lane D
Exception to Project I-70-1(7)2 Lgth. 0.035 M.
Sta 10+47.21 Lane D
Sta 22+47.58 (Lane D)
Except End Sta 22+37.58 Lane D
Beg Except Sta 23+47.58 (Lane D)
End Except Sta 23+98.22 (Lane D)
Except to Proj I-70-1(7)2 Lgth 0.029 M
Exception to Project I-70-1(7)2 Lgth. 0.030 M.
Sta 50+50 (Lane D) End Proj I-70-1(7)2
Lane F Sta. 8+03.1
TO RAISED BRIDGE
℄ Shift } S-a 2+63.62 Sta. 10+00.00 (Lane B)
℄ Shift } S-a 4+40.04 S-a 73+92.95 (Lane B) (Crosstown Fwy.)
Beg. Proj I-70-1(7)2 Sta. 14+50.03 (Crosstown) PASEO
A point approx 285 east and 70 north of the center of Lydia Ave and 14th St. in Kansas City, Mo.
A point approx 110' West and 305' North of the center of Admiral Blvd. and Troost Ave. in Kansas City, Mo.

PROJECT I-70-1(7)2 ROUTE I-70
G.E., DRAINAGE, BRIDGES, RET. WALLS & CONC. PAVT.
STATE & ~~FED~~ LGTH. 0.931 MILE
FED. AID IMPROVEMENT
LGTH. 0.955 MILE
AWARDED
MAY 19

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	MEDGE
UNFENCED PROPERTY	
RIGHT OF WAY LINE	GROUND ELEVATION
TRAVELLED WAY	
RAILROADS	GRADE ELEVATION
RETAINING WALL	SURFACE LINE
BASE OR SURVEY LINE	GRADE LINE

SUBMITTED
CHIEF ENGINEER MISSOURI STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL
DISTRICT ENGINEER PUBLIC ROADS ADMINISTRATION FEDERAL WORKS AGENCY

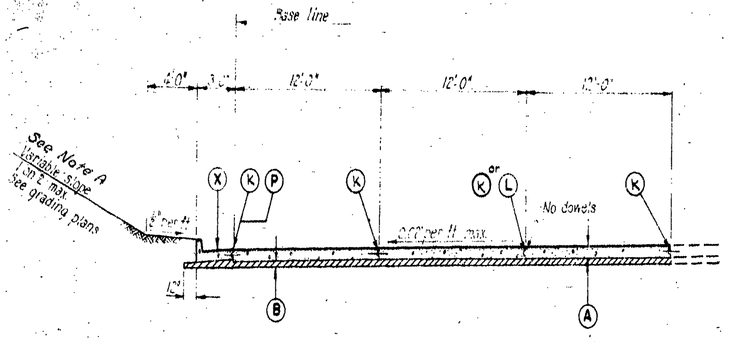
APPROVED
COMMISSIONER PUBLIC ROADS ADMINISTRATION FEDERAL WORKS AGENCY

PREPARED AND RECOMMENDED BY
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK
H. W. Bergendoff

STATE	FEDERAL PROJECT NO. & SEC.	SHEET NO.	TOTAL SHEETS
5 MO	[illegible]		2
DIST. NO.	COUNTY	ROUTE	SEC.
4	JACKSON		

MIDTOWN FREEWAY

SIXTH STREET INTERCHANGE



LANE "C" ON CURVE

36' WIDE

NOTES

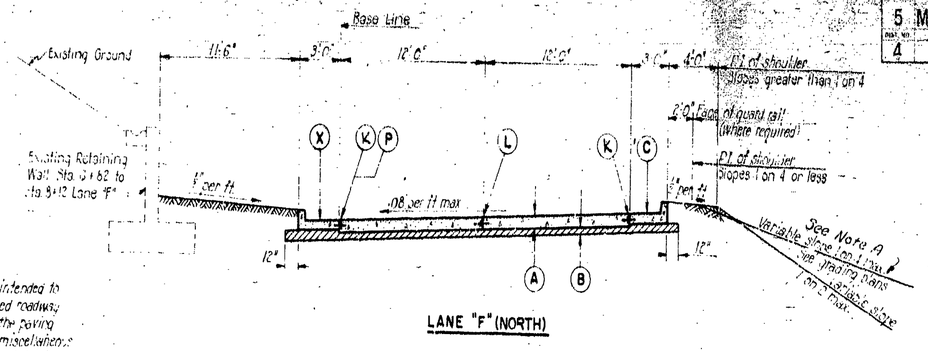
Typical roadway cross sections are intended to show general features of the proposed roadway construction. Reference is made to the paving plans, grading and drainage plans, miscellaneous details and other plan sheets for exact details applicable to any given location.

Side slopes in rock and shale cuts shall be undercut 2'-0" normal to the slope and earth backfill placed to the finished slope line See Special Provisions.

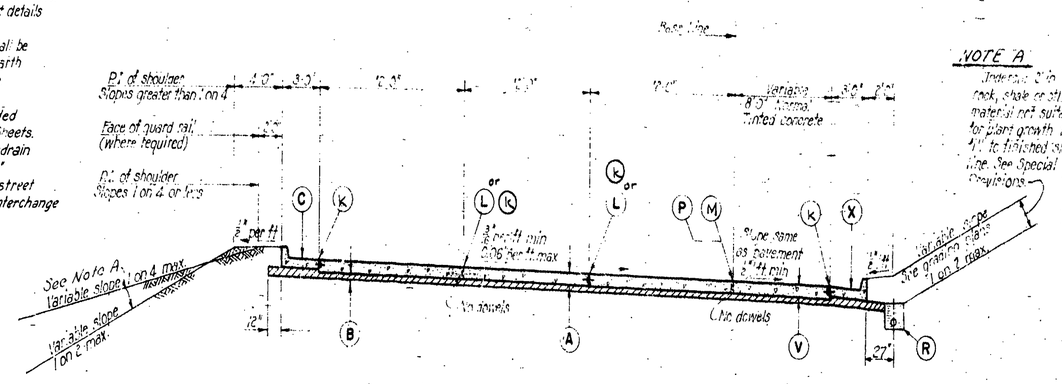
Std. Class "A" Underdrains shall be provided as indicated on Grading and Drainage Sheets.

Typical installation of Std. Class "A" Underdrain is shown in section- "Lane D on Curve"

For Typical Sections south of 11th street see Typical Sections for 14th street Interchange



LANE "F" (NORTH)

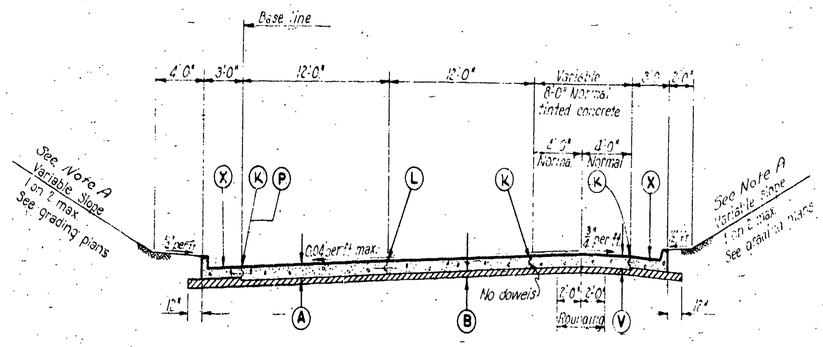


NOTE A

Undercut 2'-0" in rock, shale or other material not suitable for plant growth. Back fill to finished slope line. See Special Provisions.

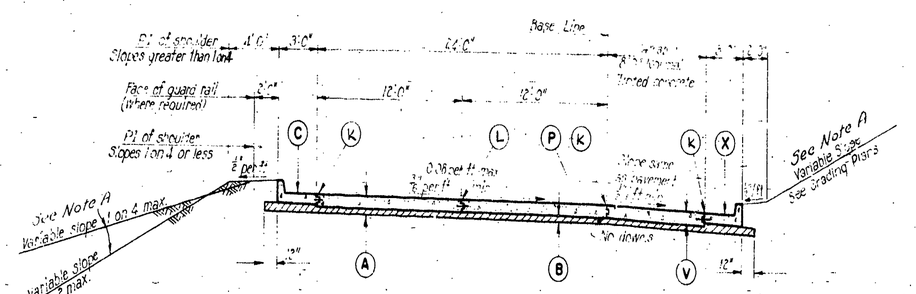
LANE "D" ON CURVE

36' WIDE



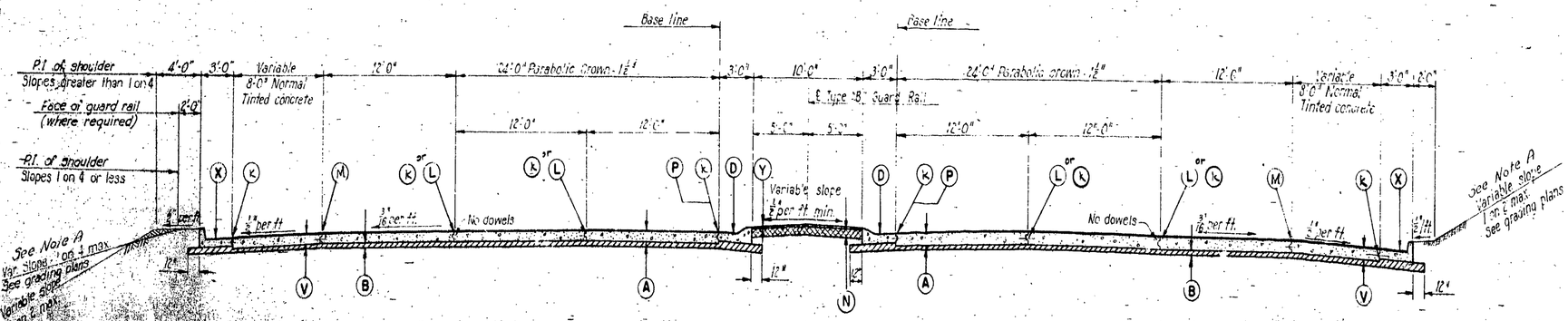
LANE "C" ON CURVE

24' WIDE



LANES "D" AND "E"

24' WIDE



LANES "C" AND "D" ON TANGENT

36' WIDE

LEGEND

- (A) 9" Reinforced P.C.C. pavement.
- (B) 4" Compacted granular base material.
- (C) 3" Curb and Gutter- Type A-1- See Misc. Detail Sheet
- (D) 3" Curb and Gutter- Type "B"
- (L) Longitudinal joint (with dowels except where otherwise noted.)
- (N) 6" Rolled Stone Base.
- (P) Profile Grade
- (R) Class "A" Underdrain
- (V) 9" Reinforced P.C.C. shoulder with red tinted surface treatment.
- (X) 3' Curb and Gutter- Type C - See Misc. Detail Sheet
- (Y) 2" Type "C" asphaltic concrete.

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

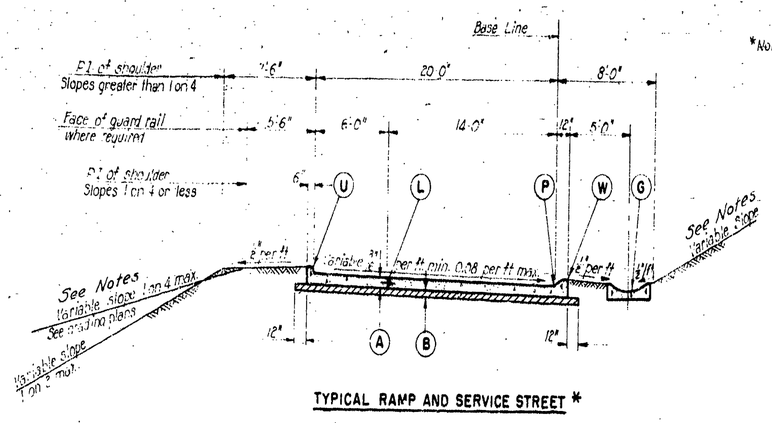
DRAWN R.J.D.	DATE 5-16-58	TRACED P.R.	DATE 5-18-58
CHECKED R.P.B.	DATE 5-18-58	SCALE 1/4"=1'-0"	

TYPICAL CROSS SECTIONS
LANES

Sheet 1 of 8

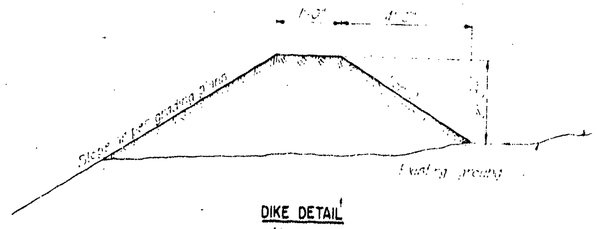
SHT. NO.	STATE	FEDERAL PROJECT NO. & SEC.	YEAR	SHT. NO.	TOTAL SHTS.
5	MO	I-70-(7)		2	
DIST. NO.	COUNTY		ROUTE	SEC.	
4	JACKSON		I-70		

MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE



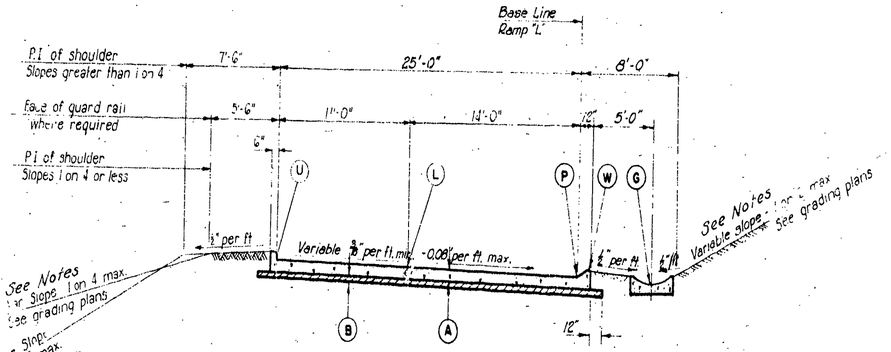
TYPICAL RAMP AND SERVICE STREET *

*Note:
Service Street Cross Section is similar to that shown for typical ramp, except that one longitudinal joint with dowels is provided in the center of the pavement and Type "A" Curb is provided on both sides

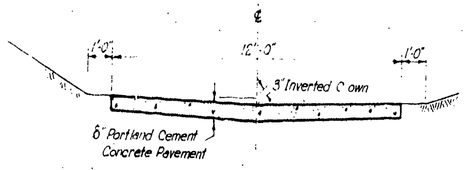


DIKE DETAIL
No Scale

†Note: Refer to grading and drainage plans for dike locations



RAMP "L"



TYPICAL ALLEY
No Scale

NOTES

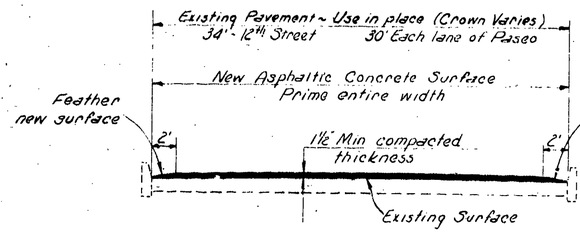
Typical roadway cross sections are intended to show general features of the proposed roadway construction. Reference is made to the paving plans, grading and drainage plans, intersections details and other plan sheets for exact details applicable to any given location.

Side slopes in rock and shale cuts shall be undercut 2'-0" normal to the slope and earth backfill placed to the finished slope line. See Special Provisions.

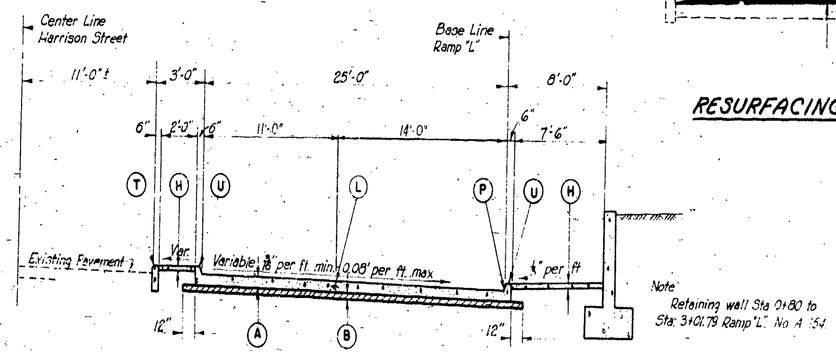
Std. Class "A" Underdrains shall be provided as indicated on Grading and Drainage Sheets.

Typical installation of Std. Class "A" Underdrain is shown in section "Lane D on Curve".

For Typical Sections south of 11th street see Typical Sections for 14th street Interchange.

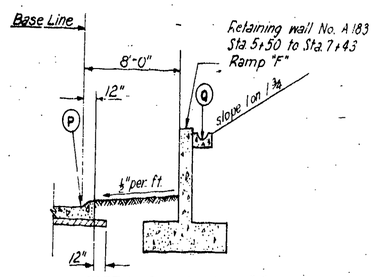


RESURFACING EXISTING STREETS



Note:
Retaining wall Sta 0+80 to Sta 3+01.79 Ramp "L" No. A 154

RAMP "L" AND HARRISON STREET



PARTIAL SECTION RAMP "F"

LEGEND

- (A) 9" Reinforced P.C.C. pavement.
- (B) 4" Compacted granular base material.
- (G) Concrete Gutter - Type "A" - See Misc. Detail, Sheet
- (H) 6" P.C.C. Pavement in Median
- (L) Longitudinal joint (with dowels except where otherwise noted.)
- (P) Profile Grade
- (Q) Concrete Gutter - Type "B" - See Misc. Detail Sheet
- (T) 20" Curb - See Misc. Detail Sheet
- (U) Type "A" Curb - See Misc. Detail Sheet
- (W) Type "B" Curb - See Misc. Detail Sheet

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

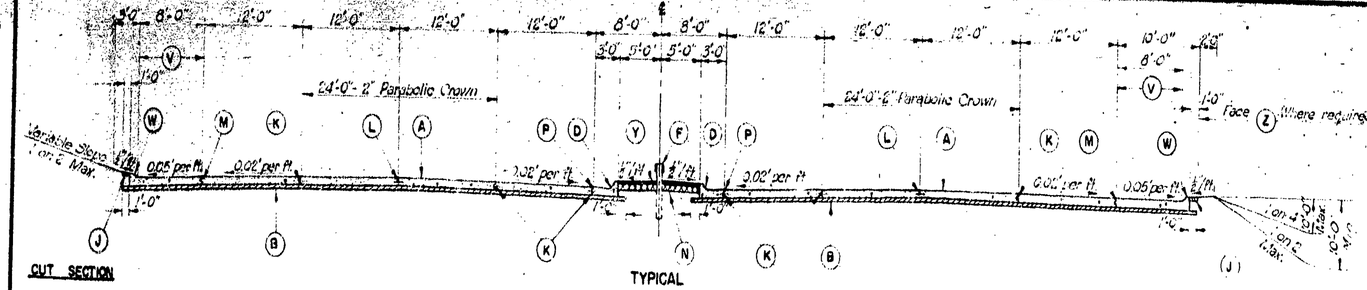
MADE	J.F.S. DATE 5-18-58	TRACED	A.M.O. DATE 5-18-58
CHECKED	R.P.B. DATE 5-18-58	SCALE	1"=1' except where shown

TYPICAL CROSS SECTIONS
RAMPS AND STREETS

2 of 8

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	I-70-1 (7)			
DIST. NO.		COUNTY		ROUTE	SEC.
4		JACKSON		I-70	

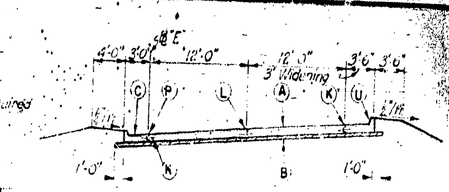
SOUTHEAST FREEWAY
14TH STREET INTERCHANGE



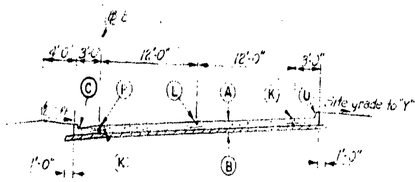
CUT SECTION

TYPICAL
FREEWAY ON TANGENT

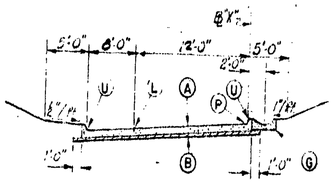
FILL SECTION



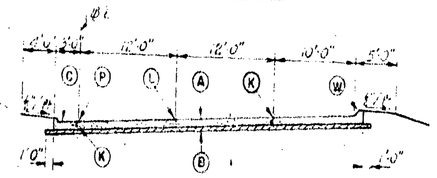
STATION 4+00 LANE "E"



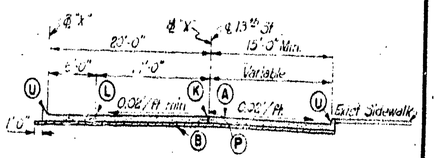
STATION 9+00 LANE "E"



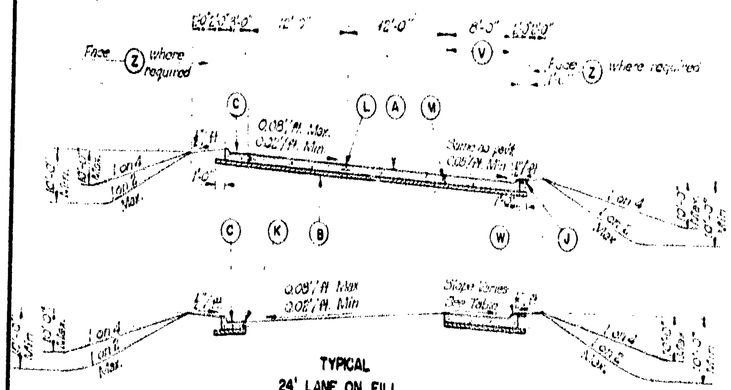
STATION 4+00 RAMP "X"



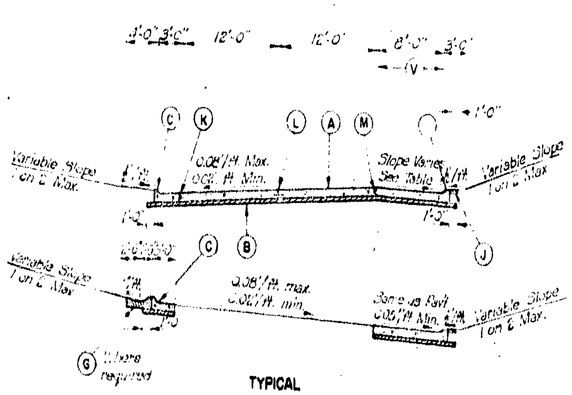
STATION 13+50 LANE "E"



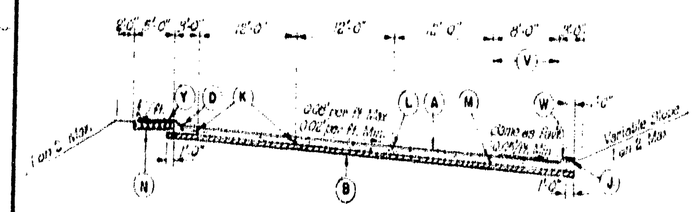
STATION 9+00 RAMP "X"



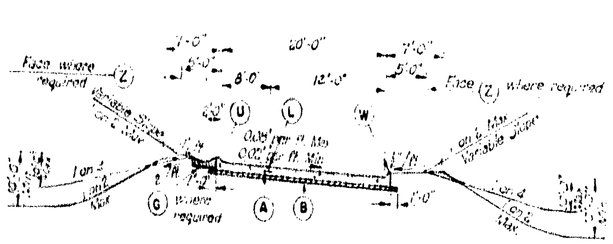
TYPICAL
24' LANE ON FILL



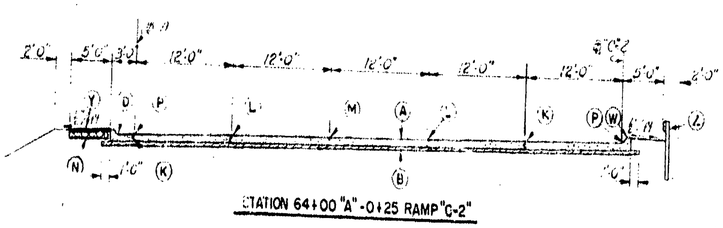
TYPICAL
24' LANE IN CUT



TYPICAL 36' LANE



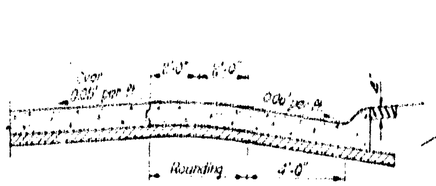
TYPICAL RAMP



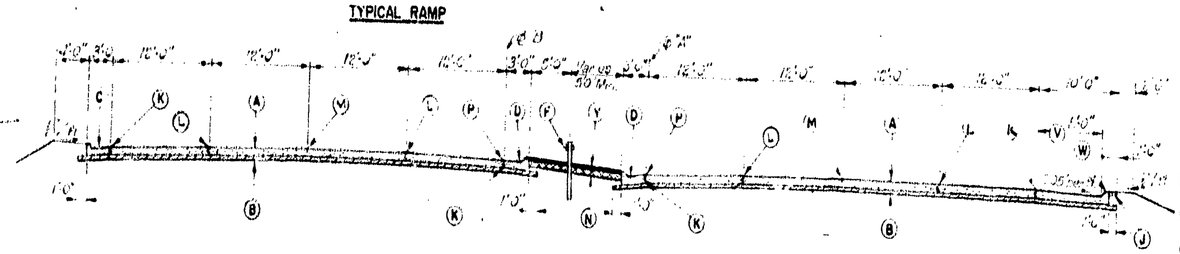
STATION 64+00 "A" - 0+25 RAMP "G-2"

SUPER ELEVATION TABLE		
CROSS SLOPE (FT/FT)		ROUNDING
ROADWAY	SHOULDER	NEEDED
.01	.01	No
.02	.02	No
.01	.04	No
.02	.03	No
.06	.06	Yes
.07	.06	Yes
.08	.06	Yes

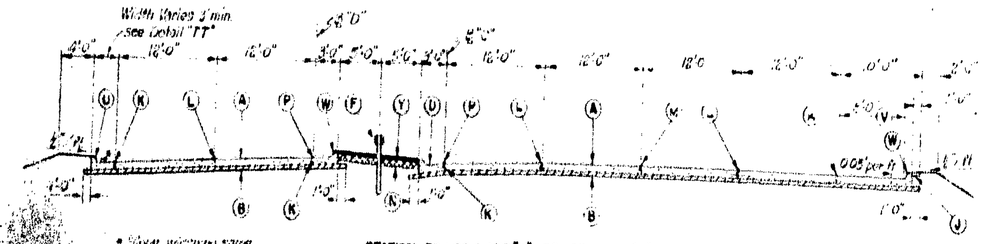
This table applies only when 8' Core Shoulder is on the high side of a curve.



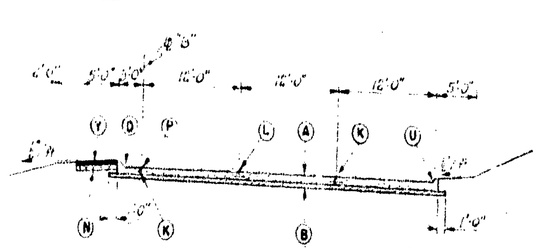
ROUNDING DETAIL
Scale: 1/8" = 1'-0"



STATION 72+00 LANE "A" - 6+36 LANE "B"



STATION 30+00 LANE "C" - 26+25 LANE "D"



STATION 21+50 LANE "B"

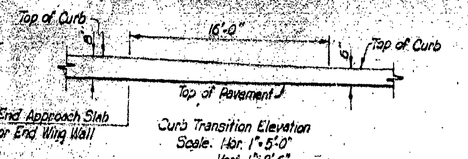
LEGEND

- (A) 9" Reinforced P.C.C. pavement
- (B) 4" Compacted granular base material
- (C) 3" Concrete curb and gutter Type "A" (Type "A-1" when on high side of pavement)
- (D) 5" Concrete curb and gutter Type "B" (Type "B-1" when on high side of Pav't.)
- (E) Expansion Joint - Standard
- (F) Guard Rail Type "B"
- (G) Concrete gutter Type "A"
- (H) 4" P.C.C. Sidewalk
- (J) 4" Crushed rock Shoulder
- (K) Longitudinal key joint with tie bars
- (L) Longitudinal joint - Standard
- (M) Longitudinal key joint without tie bars
- (N) 8" Rolled stone base
- (P) Profile Grade
- (S) 8" Plain P.C.C. pavement
- (U) Curb Type "A"
- (V) 9" Reinforced P.C.C. Shoulder with red tinted surface treatment
- (W) Curb Type "B"
- (Y) 2" Asphaltic concrete Type "C"
- (Z) Guard Rail (Steel Posts) Type "A"

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

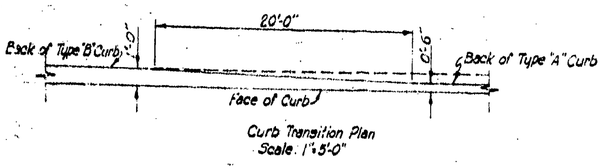
DWN. P.M.T./P.M.S. DATE 12-28
TRACED A.W.C. DATE 3-1-29
CHECKED M.E.C. DATE 3-12-29
SCALE 1/4" = 1'-0" except where shown

TYPICAL CROSS SECTIONS 3 of 8



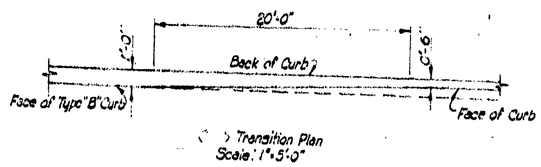
DETAIL "A"

CURB HEIGHT TRANSITION



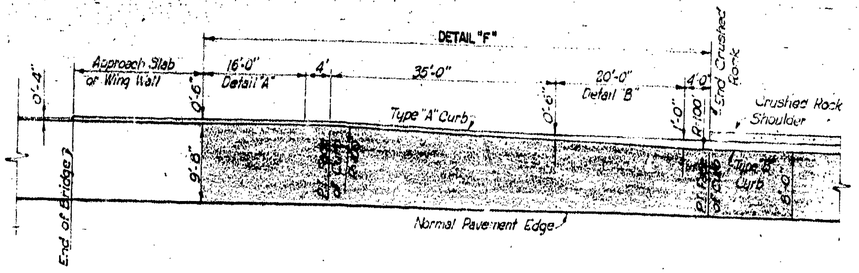
DETAIL "B"

BACK OF CURB TRANSITION



DETAIL "C"

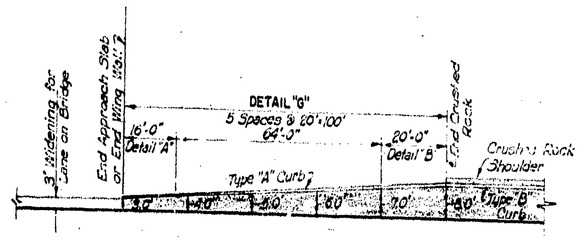
FACE OF CURB TRANSITION



DETAIL "F"

LANE SHOULDER TRANSITION FOR SHORT BRIDGE

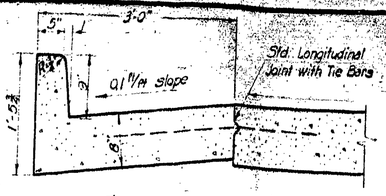
Scale: 1"=10'-0"



DETAIL "G"

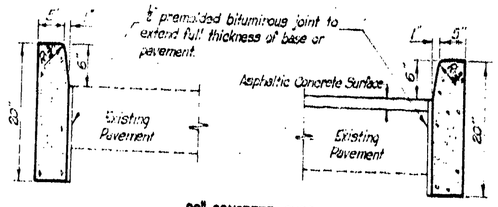
LANE SHOULDER TRANSITION TO LONG BRIDGE

Scale: 1"=20'-0"



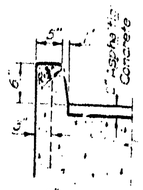
3' CURB AND GUTTER TYPE "C"

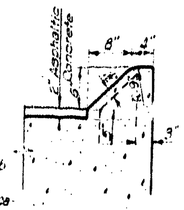
Scale: 1"=1'-0"



20" CONCRETE CURBS

Scale: 1"=1'-0"





Note:

Dowels shall be used when curb is not constructed monolithically with the pavement See "Std. Specifications"

Use dowels as follows:

Type "A" curb #4 x 10"

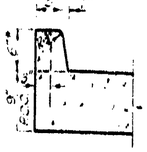
Type "B" curb #4 x 21"

Bend dowels as indicated

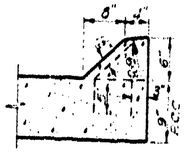
All dowels spaced 2'-0" centers

*Note

On approach slabs curb height is 8" or may transition from 6" to 3" as shown



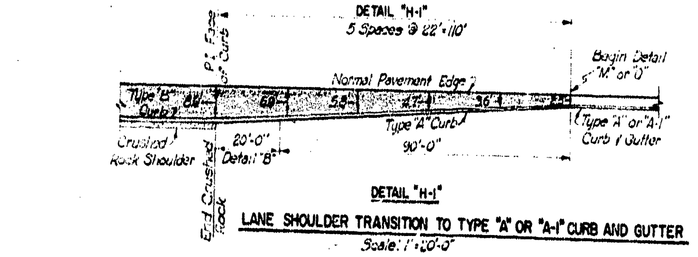
TYPE "A" CURB



TYPE "B" CURB

INTEGRAL CURBS

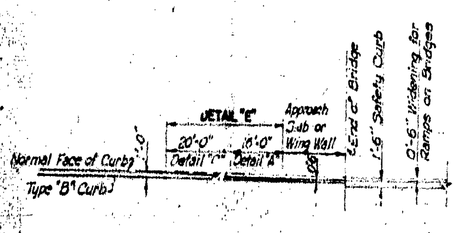
Scale: 1"=1'-0"



DETAIL "H-1"

LANE SHOULDER TRANSITION TO TYPE "A" OR "A-1" CURB AND GUTTER

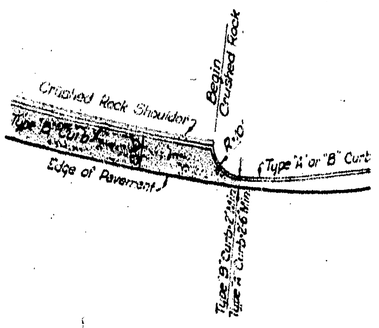
Scale: 1"=10'-0"



DETAIL "E"

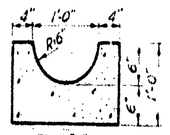
RAMP (TYPE "B" CURB) TRANSITION TO BRIDGE

Scale: 1"=20'-0"

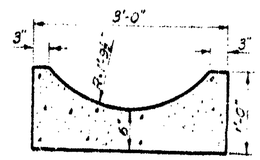


DETAIL "H"

Scale: 1"=20'-0"



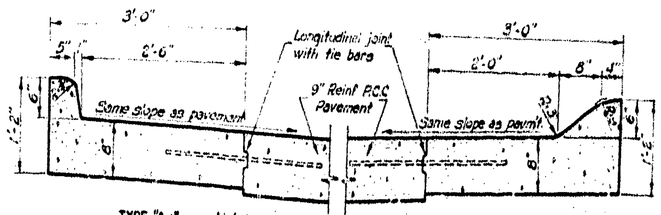
TYPE "B"



TYPE "A"

CONCRETE GUTTERS

Scale: 1"=1'-0"

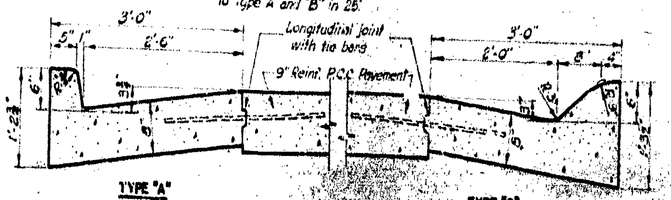


TYPE "A-1"

Note:

Transition from Type "A-1" and "B-1" to Type "A" and "B" in 25'

TYPE "B-1"



TYPE "A"

TYPE "B"

CURB AND GUTTER

Scale 1"=1'-0"

FED ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	I-70-1 (7)		2	
DIST. NO.	COUNTY			ROUTE	SEC.
4	JACKSON				

SOUTHEAST FREEWAY
14TH STREET INTERCHANGE
AND
SIXTH STREET INTERCHANGE

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

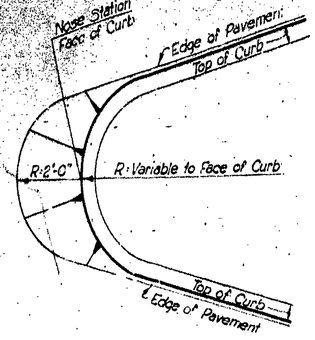
Design	DATE 3-21-58	Traffic	DATE 3-27-58		
Checked	DATE 3-24-58	Unit			

MISCELLANEOUS DETAILS

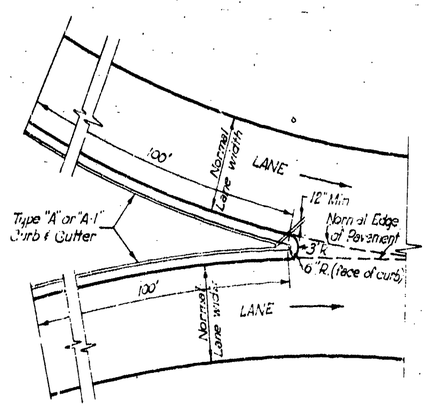
4 of 8

SEC. NOR. JOB NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	I-70-1 (7)		2	
HIST. NO.	COUNTY		ROUTE	SEC.	
4	JACKSON		I-70		

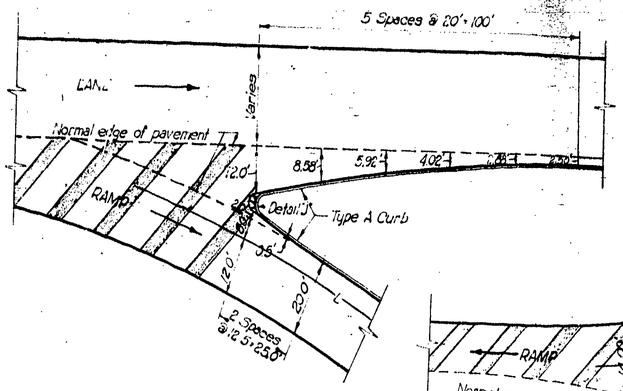
SOUTHEAST FREEWAY
14TH STREET INTERCHANGE
AND
SIXTH STREET INTERCHANGE



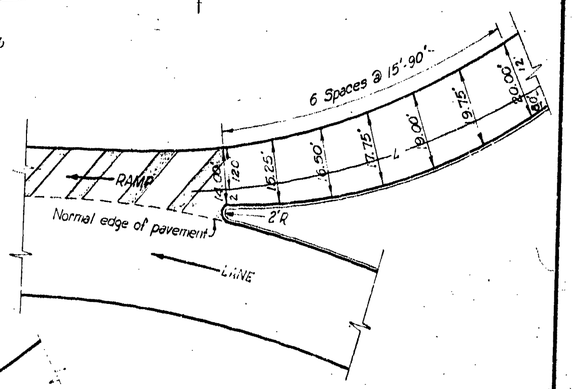
DETAIL "J"
Diverging Nose Treatment
Scale: 1"=1'-0"



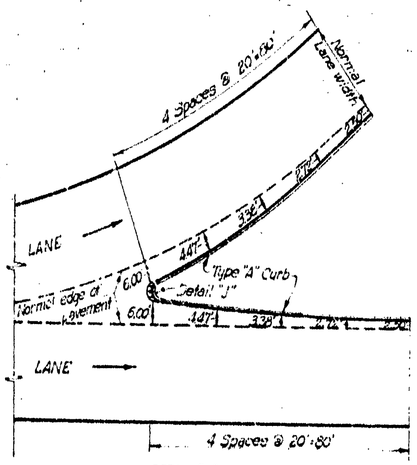
DETAIL "M"
Converging Lanes



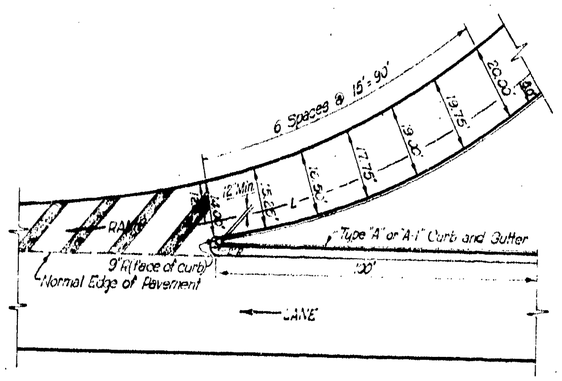
DETAIL "R"
Exit Ramp
12' Offset on Lane



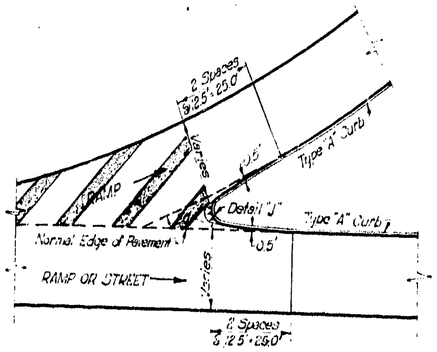
DETAIL "Z"
Entrance Ramp

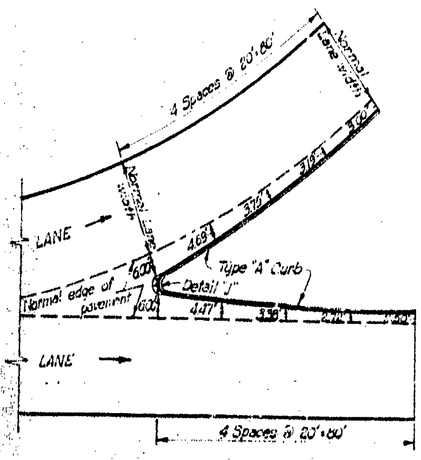


DETAIL "K"
Diverging Lanes

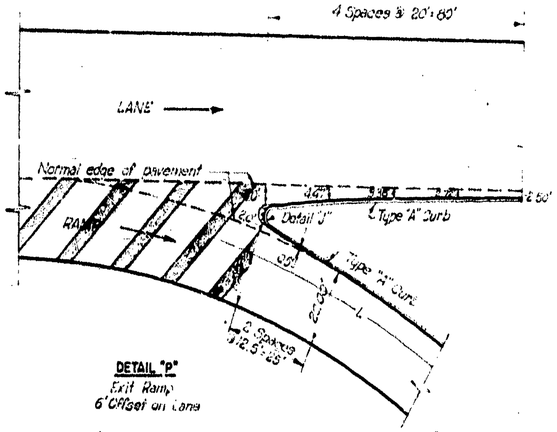


DETAIL "O"
Entrance Ramp

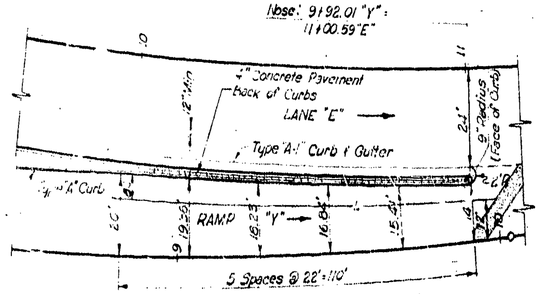




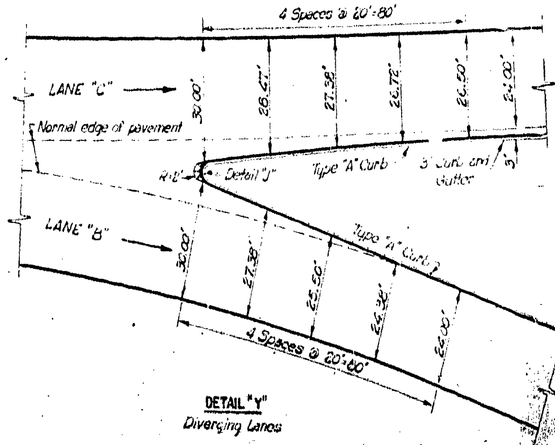
DETAIL "K-1"
Diverging Lanes



DETAIL "P"
Exit Ramp
6' Offset on Lane



DETAIL "R-1"
Diverging Ramps



DETAIL "X"
Entrance Ramp

DETAIL "Y"
Diverging Lanes

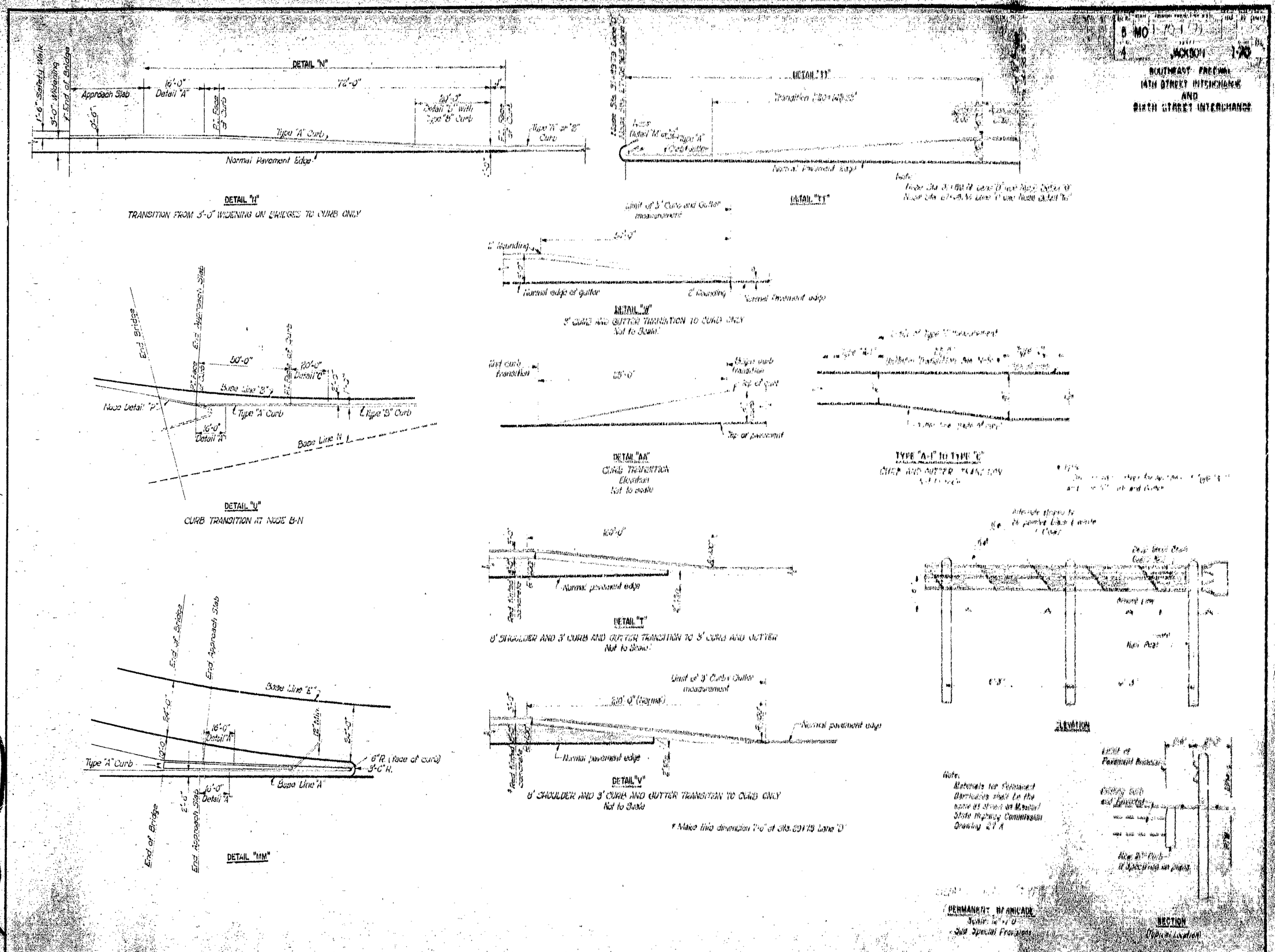
TYPICAL NOSE AND THROAT DETAILS
Scale: 1"=20'-0"

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

DRAWN	A.M.M.	DATE	2-25-58	TRACED	A.M.D.	DATE	3-31-58
CHECKED	M.E.Q.	DATE	4-16-58	SCALE	As Shown		

MISCELLANEOUS DETAILS

5 of 8



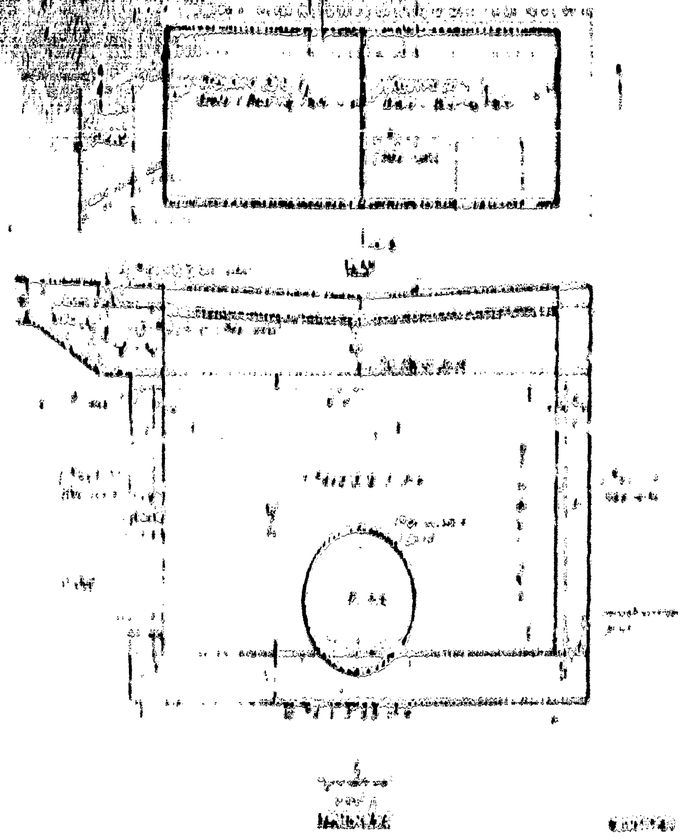
SOUTHEAST FREEWAY
14TH STREET INTERCHANGE
AND
SIXTH STREET INTERCHANGE

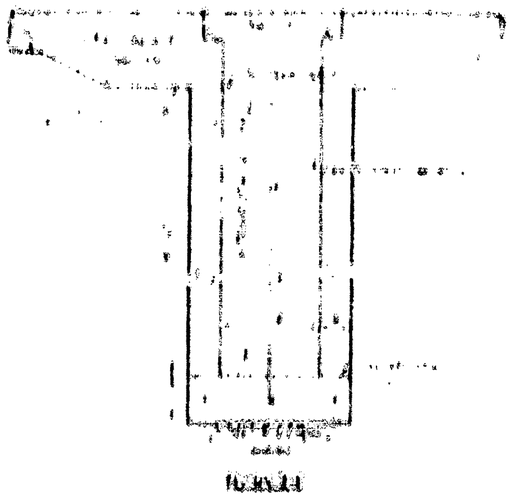
MISCELLANEOUS DETAILS

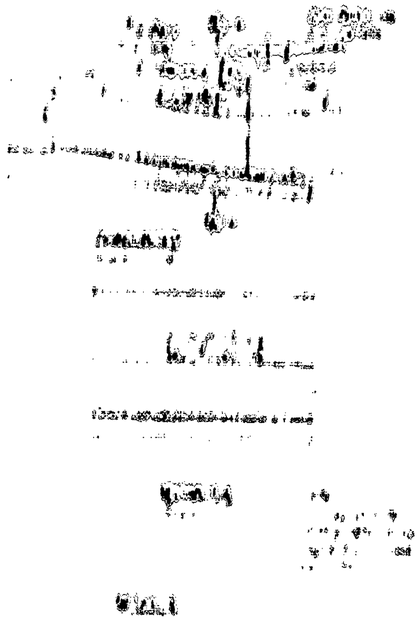
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

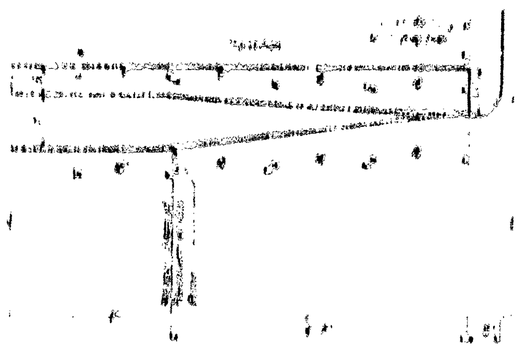
MADE A.L.H.	DATE 3-30-58	TRACED B.M.D.	DATE 4-2-58
CHECKED M.E.G.	DATE 4-23-58	SCALE 1" = 20'-0"	

103



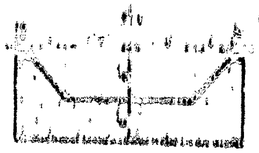


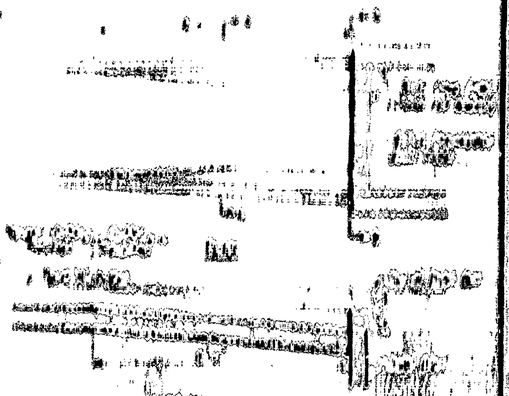


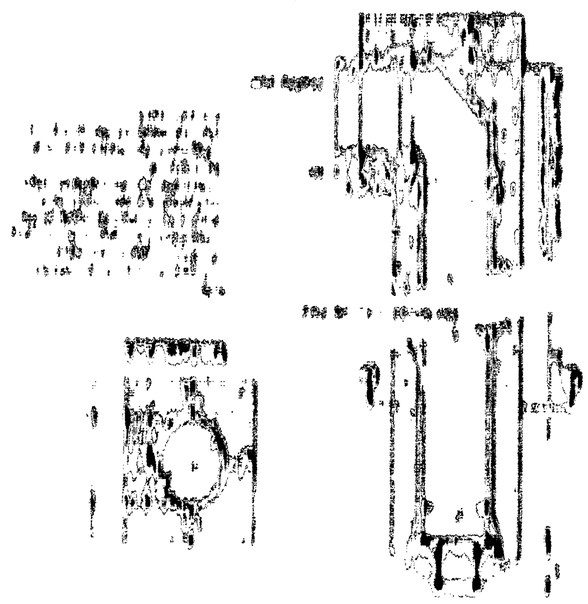




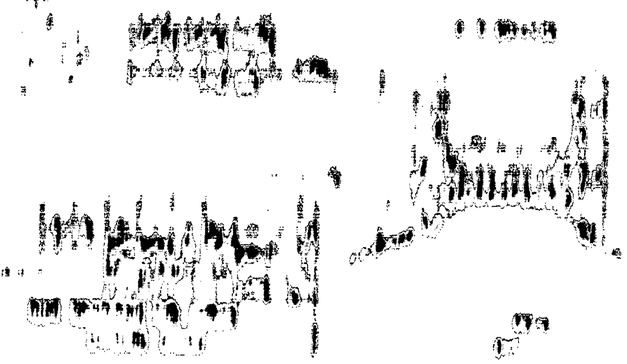














LOCATION *From the Crosstown Fwy. Br. over Paseo Blvd, W. & N. to South of Independence Ave.*

TYPE *Graded Earth, Drainage, Bridges, Ret. Walls & Concrete Pavement*

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

SHEET 1 OF 4

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	I-70-1(7)2		2A	263
DIST. No.	COUNTY			ROUTE	SEC. No.
4	JACKSON			I-70	

EXCAVATION

Location	Plan Cl. A	Pay Cl. A	Plan Cl. C	Pay Cl. C	Cl. C Overbreak	Backfill	Comp. Emb	Comp. Cut	Overhaul Sta. Yd	Overhaul Quarter Mile	Remarks
Series "A"	1513	1513	–	–		–	995				
Series "D"	3827	3742	5838	5927	56	846	771				
Series "E"	7385	5152	6001	8234	14	904	521				
Admiral Blvd Series	3024	2122	1969	2071	306	635	251				
Series "C"	326054	281356	269282	313980	6381	24376	6022				
Series "B"	2809	2809	–	–		–	182				
Eight Street Series	239	239	–	–		–					
Tenth Street Series	119	119	–	–		–	191				
Eleventh Street to Twelfth St.	1806	1806	–	–		–	362				
Twelveth Street to Thirteenth St.	2337	2337		–		–	5827				
Charlotte to Troost Ave.	13384	13384	–	–		–	32900				
Fourteenth St Connection	0	599	–	–		–	3978				See Sheet No. 267 Addition to plan
Troost to Paseo Blvd.	2852	2852	–	–		–	121982				
East of Paseo	–		–			–	40218				
SUB TOTALS	365349	318030	283090	331008	8970	26761	214200	None	5078472	1219712 (Haul to Waste Area)	
Ninth Street to Tenth Street		1060								4240	See Sheet No. 236
Haul Road at Ninth Street		726								2904	See Sheet No. 237
South of Retaining Wall A-326							688				See Sheet No. 233
Unsuitable Material		2061					2061				See Sheet No. 234
Embankment Disposal Area							68569				See Sheet No. 71
TOTAL	365349	321877	291000*	331008 (PAY Cl.C - 339978)	8970	26761	285518	None	5078472	1286856	*Incl. 7910 C.Y. Plan Allowable Overbreak

MISCELLANEOUS ITEMS

Sheet No.	Cl. A UD	R/W Mark	Sodding	Chain Link Fence	Drive Gates	Fertilizing & Seeding	2" Rigid Steel Conduit (In Trench)	2" Rigid Steel Conduit (Pushed)	Remarks
204	11569	30		14044	14		1656	23	
205						6.4			
206			158272						
TOTAL	11569	30	158272	14044	14	6.4	1656	23	

STEPS

Location	Width	No. Steps	Slope	Cl. B	Reinf.	Remarks
Admiral Blvd Right	6'	4	2/1	0.94	34	See Sheet 201
Ramp L & Harrison St	8'-11"	3	1½/1	0.41	28	See Sheet 201
			Total	1.35	62	

CONCRETE PAVEMENT (9" REINFORCED)

Station	To Station	Location	S.Y.	Remarks
0+48.08	6+49.99	Ramp L	1837.6	Orig. computation were checked and the areas built to plan size
0+35	3+12	Ramp R	561.6	" " " "
3+03.3	8+35	Ramp U	1555.4	Incl. Ramp "U-U" Sta. 0+15 to 1+90
3+21.9	9+31.1	Ramp G	1442.8	Orig. comp. were checked and the areas built to plan size
2+41.4	3+58.7	Ramp S	273.7	" " " "
0+50	6+70.5	Ramp F	1565.7	
0+76	9+00	Service St.	987.0	Orig. comp. were checked and the areas built to plan size
29+57.5	50+50	Lane D	9314.9	
0+00	10+93	Lane F	2089.2	
2+30	11+80.44	Lane E	2790.9	
0+00	31+04.67	Lane C	11645.9	
61+0.5	74+30.03	Lane A	6907.3	
74+30.03	25+38.26	Lane B	8331.8	
2+63.62	27+64.58	Lane D	6752.0	
12+78.16	18+89.13	Lane E	3767.9	
25+50	36+29.9	Lane F	518.8	
33+01 "C"	48+36 "K"	Lane K	744.5	
12+64.31	15+35.40	Ramp M	391.4	Orig. comp. were checked and the areas built to plan size
0+00	6+19.36	Ramp Y	1889.0	
0+00	9+42	Ramp X	2397.5	
2+50.37	14+8.59	Ramp Y	1583.4	
0+46.61	2+44.48	No. Leg Ramp Y	461.7	Orig. comp. were checked and the areas built to plan size
0+73.39	10+03.03	Ramp G-1	1634.9	" " " "
0+00	11+03.67	Ramp G2	2292.1	" " " "
1+41.39	8+91.62	Ramp G3	1249.8	" " " "
		TOTAL	73006.8	See Sheets 189 thru 194

CONCRETE PAVEMENT (8" NON-REINFORCED)

Location	S.Y.	Remarks
Alley – 13th to Paseo	412.6	
Alley – 10+00 Admiral Blvd. Rt.	87.0	
Alley – 255' South 2+24.7 Tenth St.	111.3	
Alley – 30' North 6+20 Ninth St.	15.7	
Total	626.6	See Sheet 195

CONCRETE BASE COURSE (8")

Station	Station	Location	S.Y.	Remarks
0+00	0+48.08	Ramp L	134.9	
9+24.7	10+09	Ramp G	234.8	
0+30	0+50	Ramp F	115.9	
0+40	0+76	Service Street	128.9	
0+28	4+13	Admiral Blvd.	2864.6	
9+80	11+19.11	Admiral Blvd.	948.8	
6th Street Connection - Adm. Blvd.			477.0	
2+30	3+09	Eight Street	392.6	
7+98	8+65	Eight Street	370.7	
1+70	6+00	Tenth Street	658.8	
9+42	9+72	Ramp X	124.8	
0+21	0+46.61	North Leg Ramp Y	77.9	Includes Alley West Paseo
11+33.67	11+41.69	Ramp G-2	165.4	
0+00	1+47.39	Ramp G-3	224.2	
		Ramp G-2 Crossover	271.3	
		Ramp G-4 Crossover	217.8	
		North Bound Paseo	611.6	
		South Bound Paseo	664.8	
14th Street Replacement (Pipe 553, 554 & 559)			35.3	
East Paseo Replacement (Pipe 565)			16.8	
West Paseo Replacement (Pipe 564)			5.8	
		TOTAL	8742.7	See Sh. 185 thru 188

PAVED APPROACHES

Location	Side	S.Y.	Remarks
1+23 Admiral Blvd.	Rt.	27.2	Coml. Ent.
1+64 Admiral Blvd.	Rt.	35.7	" "
2+13 Admiral Blvd.	Rt.	74.1	Alley
2+24.7 Tenth Street	Rt.	65.1	"
2+24.7 Tenth Street	Lt.	29.0	"
11+00 Admiral Blvd.	Rt.	17.9	Coml. Ent.
	TOTAL	249.0	See Sh. 195

ASPHALT CONCRETE CURB

Station	To Station	Side	Lin. Ft.	Remarks
31+57 Lane C	14+80.5 Lane E	Rt.	255.5	Field Meas.
2+60.3 Ramp X	22+25 Lane B	Lt.	175.0	"
		TOTAL	430.5	
		PAY	431.0	

LENGTH OF PROJECT

End of Project	Station	50+50.00	Lane "D"
Beginning of Project	Station	74+50.03	Crosstown
Apparent Length		5401.42	Feet
Equations and Exceptions: Exceptions	10+74.21 To 12+50.59 Ln. "D"	-176.38	
	23+42.65 To 24+98.90 Ln. "D"	-156.25	
	27+84.58 To 29+37.58 Ln. "D"	-153.00	
Base Line Shifts	73+94.95 Crosstown = 4+40.04 Lane "B"		
	10+00.00 Lane "B" = 2+63.62 Lane "D"		
Total Corrections		-485.63	Feet
Net Length of Project		4915.79	Feet
State Length		0.931	Miles
Federal Length		0.931	Miles

APPROACH SLAB FOR BRIDGES

Sta	Sta	Location	Bridge No.	S.Y.	Remarks
2+44.43	2+64.43	Lane F (No.)	L-935	65.2	
4+34.09	4+54.09	Lane F (No.)	L-935	67.9	
4+13	4+33	Admiral Blvd.	L-936	135.9	
9+42	9+79.4	Admiral Blvd.	L-936	252.7	
3+09	3+29	Eight Street	L-937	100.3	
7+78	7+98	Eight Street	L-937	101.2	
2+21	2+41	Tenth Street	L-939-1	108.0	
4+94	5+14	Tenth Street	L-939-1	100.0	
2+21.42	2+41.42	Ramp S	L-939-2	45.7	
26+67.51	26+87.51	Lane C	A-243	251.3	
28+40.51	28+60.51	Lane C	A-243	245.8	
31+04.7	31+24.7	Lane C	A-244	134.3	
32+81.11	33+01.11	Lane C	A-244	149.5	
23+21.7	23+41.7	Lane D	A-245	90.6	
24+98.90	25+18.90	Lane D	A-245	81.0	
4+63.5	5+14.7	Lane E	A-247	125.5	
7+90	8+12	Lane E	A-247	114.7	
4+26.8	4+47.8	Ramp Y	A-248	71.8	
6+05.8	6+47.3	Ramp Y	A-248	72.9	
10+41.1	10+74.2	Lane D	A-249	90.6	
12+50.6	12+72.7	Lane D	A-249	103.0	
17+76.3	17+98	Lane B	A-250	139.0	
19+66.7	20+11.4	Lane B	A-250	155.8	
13+83.9	14+04.6	Lane E	A-251	103.9	
15+61.7	15+83.7	Lane E	A-251	84.1	
74+30.03	74+50.03	Crosstown Fwy.	A-288	243.0	
			TOTAL	3227.7	See Sh. 196 thru 198

CONCRETE SIDEWALK (4")

Sta	Sta	Location	Side	Width	Length	S.Y.	Remarks
0+28	4+33	Admiral Blvd.	Rt & Lt	4.5	Varies	248.8	
9+42	11+19.11	Admiral Blvd.	Rt & Lt	4.5	Varies	168.0	
2+30	2+70	Ramp L	Lt	4.5	Varies	40.5	
		Sixth St. Connection	Rt & Lt	4.5	Varies	131.1	
2+30	8+65	Eight Street	Rt & Lt	Varies	Varies	254.9	
1+70	6+00	Tenth Street	Rt & Lt	Varies	Varies	215.3	
0-25	2+35	Ramp L	Rt	Varies	254	180.4	
2+90.75 Admiral		Ramp F	Rt	4.5	137.6	68.8	
9+60 13th Street	6+19.36	Ramp Y	Rt	Varies	Varies	230.3	
		West Paseo	Rt	8'	Varies	150.6	
		Ramp G-4 Crossover				68.9	
					TOTAL	1758.2	See Sh. 199

CONCRETE MEDIAN (6")

Sta	Sta	Location	Width	Length	S.Y.	Remarks
0+45	2+30	Ramp L Lt.	Varies	210.0	92.0	
31+40	31+89.79	Nose - Lane D & Ramp L	Varies	49.8	36.0	
5+70	6+70.51	Nose - Lane C & Ramp F	Varies	100.5	44.0	
		Island Ramp F & Admiral	Varies	Varies	13.0	
13+15	13+94.7	Nose Lane C & Lane E	Varies	79.7	76.0	
2+12.1	2+33.4	Paseo (West)	3.0	21.3	7.0	See Sheet No. 187
5+76.9	5+97.8	Paseo (East)	3.0	20.9	6.9	See Sheet No. 187
				TOTAL	274.9	

ROADWAY CONTINGENT ITEMS

Item No.	Description	Unit	Total Units	No. Units Fed. Aid Only
	Eliminating Black Tinting of Concrete	S.Y.	5127	
	Repair Sewer Failure P-204 & J.C. 204	F.A.	$971.66	
	Intergal Curb	L.F.	40	
	Slide Repair Between 8th & 9th St.	F.A.	$5502.68	
	Special Bases For Guardrail	Each	7	
	Special Materials & Work - Guardrail	L.S.	1	
	Slide Repair Sta. 2+62 Ramp G	F.A.	$2317.52	

GENERAL SUMMARY

Item No.	Description	Unit	Total Units	No. Units Fed. Aid Only
1-D	Class A Excavation	CY	321877	
1-DF	Backfill	CY	26761	
1-E	Class C Excavation	CY	339978	
1-I	Class 3 Excavation	CY	10587.0	
1-J	Porous Backfill	CY	130.0	
1-K	Compacting Embankments	CY	285518	
1-L	Compacting in Cuts	CY	0	
1-M	Overhaul	Sta. Yd.	5078472	
1-N	Overhaul	¼ M. Yd.	1286856	
1-X	Adjusting Manholes to Grade	Each	5	
1-XA	Adjusting Access Manholes	Each	2	
1-ZA	Demolition of Buildings	L.S.	1	
1-ZZ	Miscellaneous Removals (Urban Areas)	L.S.	1	
3-A	Concrete Base Course (8")	SY	8742.7	
13-D	Crushed Stone (B) Surface	Ton	764	
15-A	Concrete Pavement (8" Non-Reinforced)	S.Y.	626.6	
15-A	Concrete Pavement (9" Reinforced)	S.Y.	73006.8	
15-B	Approach Slab for Bridges	SY	3227.7	
16-B	Class B Concrete (Other than Box Culverts)	CY	222.3	
18-C	12" Reinforced Conc. Culv. Pipe	L.F.	5715	
18-C	15" Reinforced Conc. Culv. Pipe	L.F.	2243	
18-C	18" Reinforced Conc. Culv. Pipe	L.F.	1143	
18-C	24" Reinforced Conc. Culv. Pipe	LF	1128	
18-DC	12" Bituminous Coated (Perforated) Corr. Metal Culv. Pipe	LF	135	
18-DF	Pipe Collars	Each	4	
18-H	12" Reinforced Conc. Sewer Pipe	LF	206	
18-H	15" Reinforced Conc. Sewer Pipe	LF	36	
18-H	18" Reinforced Conc. Sewer Pipe	L.F.	260	
18-H	24" Reinforced Conc. Sewer Pipe	LF	330	
19-A	Reinforcing Steel	Lbs.	29020	
23-E	4" Conc. Slope Protection	SY	4834.7	
24-A	Class A, Type I, Underdrains	LF	11569	
25-A	Concrete curb (20")	LF	1059.5	
25-B	Conc. curb and Gutter (Type A)	LF	1680.0	
25-B	Conc. curb and Gutter (Type A-1)	LF	4520.0	
25-B	Conc. curb and Gutter (Type B)	LF	2345.1	
25-B	Conc. curb and Gutter (Type B-1)	LF	1403.3	
25-B	Conc. curb and Gutter (Type C)	LF	6144.2	
25-BB	Paved Approach	SY	249.0	
25-CC	Asphaltic Concrete Curb	LF	431	
25-D	Concrete Gutter (Type A)	LF	4078.7	
25-D	Concrete Gutter (Type B)	LF	390.9	
25-N	Concrete Median (6")	SY	274.9	
26-A	Concrete Sidewalk (4")	SY	1758.2	
27-A	Guardrail (Type A)	LF	6259	
27-A	Guardrail (Type B)	LF	988	
27-F	Chain Link Fence (6 Foot) Type B	LF	14044	
27-H	Drive Gates (14 Foot)	Each	14	
28-C	Standard Signs, Flags, & Flagging	LS	1	
28-E	Movable Barricades	Each	36	
29-C	Right-of-Way Markers	Each	30	
36-A	Grates and Bearing Plates	Lbs.	34050	
36-C	Manhole Frame & Cover (16-A)	Each	15	
36-C	Manhole Frame & Cover (36-T)	Each	1	
36-E	Curb Inlet (18")	Each	12	
36-E	Curb Inlet (24")	Each	11	
37-B	Sodding	SY	158272	
37-E	Fertilizing and Seeding	Acre	6.4	
39-C	2" Rigid Steel Conduit (In Trench)	L.F.	1656	
39-C	2" Rigid Steel Conduit (Pushed)	L.F.	23	
	8" ROLLED STONE BASE			
1-BA	Water	100 Gal.	41	
2-A	Aggregate	Ton	951	
2-B	Spreading, Shaping, & Compacting	SY	2087	
	COMPACTED GRANULAR BASE FOR CONCRETE PAVEMENT			
1-BA	Water	100 Gal.	1200	
3C-A	Granular Base Material	Ton	24205	
3C-B	Spreading, Shaping, & Compacting	SY	92967	
	ASPHALTIC CONCRETE PAVEMENT			
4C-A	Primer	Gal.	1379	
7-C	Type C Asphaltic Concrete	Ton	1711	

PROJECT ACCEPTED 10-30-62

Prepared By________ Date________ 19___ Checked in Dist. Office By________ Date________ 19___ Checked in Central Office By________ Date________ 19___ Revised By________ Date________ 19___

LOCATION *From the Crosstown Fwy Br. over Paseo Blvd. W. & N to South of Independence Avenue*

TYPE *G.E., Drainage, Bridges, Ret Walls & Concrete Pav't.*

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

Sheet 2 of 4

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	I-70-1(7)2		2A	263
DIST. No.	COUNTY			ROUTE	SEC. No.
4	JACKSON			I-70	

REINFORCED CONCRETE CULVERT PIPE

Pipe No.	Struct	to Struct	12"	15	18	24	Cl. 3 Exc.
P-401	401	Existing Line	40				18
P-402	402	107	73				31
P-403	403	107	28				12
P-404	404	403	87				38
P-405	405	406	47				32
P-406	406	107		50			70
P-407	407	408	33				13
P-408	409	45				177	234
P-409	410	409				146	180
P-410	411	410				272	340
P-411	412	411			247		225.5
P-412	413	412			298		208
P-413	414	413		323			265
P-414	415	414	148				126.5
P-415	416	409	54				70.5
P-416	417	416	137				85.5
P-417	418	410	2				0
P-418	419	411	2				0
P-419	420	411		166			239.5
P-420	421	422	4				0
P-421	422	420	48				24.5
P-422	423	420	48				25.5
P-423	424	423	4				0
P-424	425	420	4				0
P-425	426	412	126				134
P-426	427	428	4				1.0
P-427	428	413	49				24.5
P-428	429	413	76				64.5
P-429	430	414		55			42
P-430	431	430	4				0
P-431	432	415	43				25
P-432	433	415	3				0
P-433	434	433	63				33.5
P-434	435	Existing Line			184		368
P-435	436	435			60		45
P-436	437	436		59			29
P-437	438	437		210			263.5
P-439	439	438		49			32
P-440	440	439	74				41.5
P-441	441	438	4				1.0
P-442	442	439	4				1.0
P-443	443	440	4				1.0
P-444	444	Existing Manhole			52		34
P-445	445	444			109		68.5
P-446	446	445		78			52.5
P-447	447	446		147			90.5
P-448	448	447		52			26.5
P-449	449	444	69				38
P-450	450	Existing Manhole	38				22
P-451	451	Existing Manhole	26				18
P-452	452	454	31				13
P-453	453	454		28			11
P-454	454	456		36			22
P-455	455	456	31				13
P-456	456	Existing Manhole		54			58
P-458	458	457	68				39
P-459	459	156	71				43
P-460	460	106	21				9
P-461	461	105	29				22
P-462	462	705	20				14.5
P-462-A	462A	Existing M.H.	12				7
P-463	463	106		22			19.5
P-464	464	463	12				6
P-465	465	103	6				1
P-466	466	467	33				11.5
P-468	468	469	53				28
P-469	469	470	134				106
P-470	470	202	102				41
P-471	471	472	63				41
P-472	472	473	56				40
P-473	473	171	15				8
P-474	474	476	52				40
P-475	475	476	68				37
P-476	476	177	184				131
P-477	477	478	56				49
P-478	478	173	36				23
P-479	479	173			60		97
P-481	481	301	13				7
P-482	482	483	59				25
P-483	483	484	64				35
P-484	484	302	36				38
P-485	485	302	18				12
P-486	487	303		51			2.5
SUB TOTALS			2689	1380	1010	595	4795.0

Pipe No.	Struct	to Struct	12	15	18	24	Cl. 3 Exc.
P-487	486	487	36				17
P-488	488	487	52				58
P-489	490	488	90				77
P-490	491	490	53				37
P-491	492	Existing Manhole	14				10
P-492	493	Existing Manhole	36				15
P-493	494	Existing Manhole	130				57
P-494	495	494	22				10
P-495	496	499		53			40
P-496	497	496	35				19
P-497	498	497	37				14
P-498	504	499			12		22
P-499	499	500				103	244
P-500	500	501				82	99
P-502	514	Existing Manhole				173	388
P-503	502	504	25				14
P-506	506	500	10				2
P-507	507	500	113				64
P-509	509	510	37				13
P-510	510	511	53				27
P-511	514	511	5				C
P-512	512	514	63				28
P-513	513	511	32				10
P-514	515	Existing Manhole	134				88
P-515	516	Existing Manhole	89				67
P-516	517	317	123				46
P-517	518	517	183				172
P-518	519	518	54				47
P-519	520	317	45				41
P-520	521	"Y"	32				23
P-521	524	523	66				33
P-522	522	523	69				41
P-523	523	525		143			76
P-524	525	526		89			56
P-525	527	528	78				46
P-526	528	526		75			59
P-527	526	529		38			70
P-529	532	533	59				27
P-530	533	536	29				22
P-531	536	539		55			38
P-532	539	541		48			30
P-534	[illegible]	536	68				31
P-535	535	536	68				31
P-536	538	539	54				22
P-537	537	539	69				29
P-538	540	541	79				42
P-540	E-9	E-10				175	300
P-541	543	E-9	36				26
P-543	545	547	35				58
P-545	547	550	60				53.5
P-546	548	549	32				24
P-547	549	550	3				0
P-548	551	552	58				28
P-549	552	553	43				25
P-550	553	555	63				42
P-551	554	555	74				48.5
P-552	555	556			30		31
P-553	556	E-9			18		23.5
P-554	562	Existing Manhole	28				10.5
P-555	557	558	50				21
P-556	558	559	11				7
P-557	559	560		49			35
P-558	560	561		92			98
P-559	561	E-8			69		105
P-561	565	566	98				49
P-562	566	Existing Manhole	30				15
P-564	567	Existing Manhole	12				5.5
P-565	569	Existing Manhole	35				20.0
P-566	570	212		81			66
SUB TOTALS			2860	723	129	533	3500.5
PIPE STUBS	Struct. No.						
	477		4				
	479				4		
SUB TOTALS			4		4		
TOTALS			5553	2103	1143	1128	8295.5*

*See Sh# 181 to # 184

REINFORCED CONCRETE SEWER PIPE

Pipe No.	Struct.	to Struct.	12"	15"	18"	24	Cl. 3 Exc.
P-457	457	Existing Manhole	32				30.5
P-467	467	Existing Manhole	34				61.5
P-501	501	504				99	153
P-504	503	499	12				4
P-505	505	499	23				7
P-508	508	501	4				0
P-528	529	531			260		335
P-533	541	531		36			62
P-539	531	E-9				231	217
P-542	544	E-9	36				24
P-442A	442A	442	65				68.5
TOTALS			206	36	260	330	962.5*

*See sh. # 181 & 184

LENGTH OF PROJECT

End of Project		Station	
Beginning of Project		Station	
Apparent Length			Feet
Equations and Exceptions:			
Total Corrections			Feet
Net Length of Project			Feet
	State Length		Miles
	Federal Length		Miles

PIPE COLLARS & R.C.C.P.

Location	Pipe Collar	12"	15"	Cl. 3 Exc.	Remarks
Sta. 73+80 Rt. Mo. River Br.	1	130		—	See Sheet No. 71
Sta. 73+62 Lt. Mo. River Br.	2		140	—	See Sheet No. 71
TOTALS	3	130	140		

CONCRETE MANHOLES (STD. 16A)

MH No	Sta & Location	Side	Size	D	Cl. B	Reinf	Cl. 3	Manhole Frame & Cover	Pipe Opening	Remarks
409	19+50 Lane C	7' Lt.	4x4	8.00	3.93	344	21	1-9"	1-12", 2-24"	
410	12+00 Lane C	7' Lt.	4x4	5.75	3.03	293	16	1-9"	1-12", 2-24"	
411	14+75 Lane C	7' Rt.	4x4	5.00	2.74	279	14	1-9"	1-12", 1-15", 1-18", 1-24"	
415	31+25 Lane D	8' Lt	4x4	6.50	3.49	314	18	1-9"	3-12"	
499	16+05 Lane D	22' Rt	4x4	13.50	6.11	498	35	1-9"	2-12", 1-15", 1-18", 1-24"	
500	1+15 Ramp X	4' Rt.	4x4	5.25	2.80	295	16	1-9"	2-12", 2-24"	
501	22+74 Lane B	34' Lt.	4x4	4.75	2.63	269	15	1-9"	1-12", 2-24"	
504	16+20 Lane D	25' Rt.	4x4	12.50	5.83	459	32	1-9"	1-12", 2-18	
514	10+60 Lane E	7' Lt.	4x4	11.50	5.30	442	27	1-9"	2-12", 2-24"	
523	6+44 Ramp C-1	7' Rt	4x4	5.00	2.88	271	16	1-9"	2-12, 1-15"	
526	4+52 Ramp C-2	5' Rt	4x4	12.00	5.66	440	32	1-9"	3-15"	
531	7+34 Ramp C-2	45' Rt	4x4	4.25	2.47	263	13	1-9"	1-15", 1-18", 1-24"	
541	7+30 Ramp C-2	5' Rt	4x4	12.50	5.87	459	33	1-9"	1-12", 2-15"	
550	11+39 Ramp C-2	41' Lt	4x4	10.25	4.78	415	27	1-10"	2-12", 2-2' Brick	
137	49+75 Lane O	Rt	4x4					1-10"		Built under Previous Contract
TOTALS					57.52	5041	315	13-9"		
PAY					59.62*			2-10"		

*Standard Drawing 16A Incorrect 3" addition depth invert required for each structure 14 x 0.15 = 2.10 C.Y.

ADJUSTING MANHOLES TO GRADE

Location	Side	No	Top of Cover Elev.	Remarks
Sta 4+75 Ramp V	23' Lt.	1	876.4	Raised - See Sheet No. 7
Sta 2+25 10th St	℄	1	840.8	Raised - See Sheet No. 6
14th & Campbell	℄	1	849.5	Raised - See Sheet No. 7
N17252 E11020		1	868.0	Raised " " " Existing MH built by others
N17153 E11021		1	849.5	Raised " " " " " " "
TOTALS		5		

ADJUSTING ACCESS MANHOLES

Location	No.	Remarks
South of Levee in Waste Area	2	See Sheet No. 70
TOTALS	2	

BASEMENT DRAIN

Location	12" Bit. Ct. CMP	12" RCCP	Cl 3 Exc	Porous Backfill	Pipe Collars	Remarks
Sta 71+35 Lane E Rt	135	32	121	130.0	1	See Sheet No. 18
TOTALS	135	32	121	130.0	1	

DROP INLETS (PREVIOUS CONTRACTS)

Inlet No.	Location	Type	Size	Covers Type	Covers Size	Curb Opening	Grates & Brg Plates	Remarks
114	4+75 Serv. St Rt	36B	B,x4	I	4		307	
136	30+00 Lane D Rt	36G	2x2	II	2		186	
138	6+00 Lane C Lt	36G	2x2	II	2		186	
139	6+00 Lane C Rt	36G	2x2	II	2		186	
143	3+72 Lane C Lt	36G	2x2	II	2		186	
144	2+50 Lane C Lt	36G	2x2	II	2		186	
147	6+00 Lane F 25 Lt	36G	1½x2	I	2		156	
148	6+62 Lane F 25 Lt	36G	2x2	II	2	1-24"	186	
149	7+15 Lane F 25 Lt	36G	2x2	II	2		186	
315	20+29 Lane B Rt	36B	B,x4	I	4		307	
316	13+66 Lane E ℄	36G	1½x2	I	2		156	
317	1+00 Ramp C-1 ℄	36B	B,x4	I	4		307	
TOTALS						1-24" opening	2535	

GENERAL SUMMARY

FINAL PLANS

ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED AID ONLY
	ROADWAY CONTINGENT ITEMS			
	Modified Seed Mixture	Acre	6.4	
	Cut Special Lengths & Mill Holes - Guardrail	L.S.	$75.05	
	Cleaning And Flushing Existing Manhole	F.A.	$337.41	
	Removing Loading Dock	F.A.	$746.72	
	Asphaltic Conc. Samples	Each	3	
	Deduction For Thin Pavement	L.S.	$553.09	
	BR. AT STA. 9+59.25 (LANE C) DWG. NO. L-935			
1-G	Class I Exc. for Structures	C.Y.	185.5	
16-B-1	Class B-1 Conc. (Supr.)	C.Y.	377.3	
16-B	Class B Conc. (Sub.)	C.Y.	135.5	
17A-A	Aluminum Alloy Handrail	L.F.	362	
17-B	Fab. Str. Steel (Bearings)	Lbs.	1690	
17-B	Fab. Str. Steel	Lbs.	4840	
19-A	Reinforcing Steel	Lbs.	125470	
40-W	Conduit System	L.S.	1	
	CONTINGENT ITEMS			
	Remodel Expansion Devices	L.S.	1	
	Stay-in-Place forms Cl. B-1 Conc. (Supr.)	C.Y.	377.3	
	Eliminate Access Doors	Each	6	
	Class I Exc. +25%	C.Y.	4.0	
	BR. AT STA. 10+27.27 (LANE C) DWG. NO. L-936			
1-G	Class I Exc. for Structures	C.Y.	1539.0	
16-B-1	Class B-1 Conc. (Supr.)	C.Y.	2496.7	
16-B	Class B Conc. (Sub.)	C.Y.	542.3	
17A-A	Aluminum Alloy Handrail	L.F.	1052	
17-B	Fab. Str. Steel (Bearings)	Lbs.	3760	
17-B	Fab. Str. Steel	Lbs.	11090	
19-A	Reinforcing Steel	Lbs.	765800	
40-W	Conduit System	L.S.	1	
	CONTINGENT ITEMS			
	Remodel Expansion Devices	L.S.	1	
	Stay-in-Place forms Cl. B-1 Conc. (Supr.)	C.Y.	2496.7	
	Eliminate Access Doors	Each	24	
	Class I Exc. +25%	C.Y.	53.5	
	Test Holes	L.F.	47	
	BR. AT STA. 15+27.06 (LANE C) DWG. NO. L-937			
1-G	Class I Exc. for Structures	C.Y.	776.0	
16-B-1	Class B-1 Conc. (Supr.)	C.Y.	1794.5	
16-B	Class B Conc. (Sub.)	C.Y.	355.2	
16-C	Class C Conc.	C.Y.	0.0	
17A-A	Aluminum Alloy Handrail	L.F.	915	
17-B	Fab. Str. Steel (Bearings)	Lbs.	2930	
17-B	Fab. Str. Steel	Lbs.	7820	
19-A	Reinforcing Steel	Lbs.	566050	
22-DD	10" Stl. Piles in Place (State Furnished)	L.F.	413	
40-W	Conduit System	L.S.	1	
	CONTINGENT ITEMS			
	Remodel Expansion Devices	L.S.	1	
	Stay-in-Place forms Cl. B-1 Conc. (Supr.)	C.Y.	1794.5	
	Eliminate Access Doors	Each	15	
	Class I Exc. +25%	C.Y.	61.5	
	Test Holes	L.F.	68	
	RET. WALL AT STA. 16+57± (LANE C) DWG. NO. A-183			
1-G	Class I Exc. for Structures	C.Y.	229.5	
16-B	Class B Conc.	C.Y.	135.3	
19-A	Reinforcing Steel	Lbs.	6020	
25-D	Concrete Gutter	L.F.	209.0	
	CONTINGENT ITEMS			
	Class I Exc. +25%	C.Y.	22	
	Test Holes	L.F.	9	

PROJECT ACCEPTED 10-30-62

Prepared By________ Date________ 19__ Checked in Dist. Office By________ Date________ 19__ Checked in Central Office By________ Date________ 19__ Revised By________ Date________ 19__

LOCATION FROM CROSSTOWN FWY. BR. OVER PASEO BLVD., W. & N. TO SOUTH OF INDEPENDENCE AVE

TYPE G.E., DRAINAGE, BRIDGES, RET. WALLS, & CONC. PAV'T.

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

FED. ROAD DIST. NO.	STATE	PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	MO	I-70-1(71)2		2A	
JOB NO. 4		COUNTY JACKSON			

SHEET 3 OF 4

DROP INLETS

Inlet No.	Location	Side	Std.	Size	D'	Cl. B Conc.	Reinf.	Cl. 3	Type	Size	Weight	Grate Opening	Pipe Openings	Remarks
401	47+75 Lane D	Rt	36G	2×2	2.5	0.69	120	4.0	II	2	186		1-12"	
402	10+85 Admiral	Lt	36B	1½×3	2.5	0.85	150	4.0	I	3	235		1-12"	
403	10+25 Admiral	Rt	36C	2×4	2.5	1.17	192	5.0	I	4	307	1-18" opening	2-12"	
404	11+15 Admiral	Rt	36B	1½×3	2.5	0.85	150	4.0	I	3	235		1-12"	
405	9+40 Ramp G	Lt	36B	1½×3	2.0	0.75	147	4.0	I	3	235		1-12"	
406	10+00 Admiral	52'Rt	Special	1½×6	8.0	3.12	254	18.0	Special		470		1-12"	
407	8+75 Lane C	℄	36G	2×2	2.5	0.69	120	4.0	II	2	186		1-12", 1-15"	See Misc. Detail Sheet
408	8+75 Lane C	Rt	36G	2×2	4.0	0.94	150	6.0	II	2	186		1-12"	
412	17+25 Lane C	℄	36G	2×2	3.0	0.68	120	5.0	II	2	186		2-12"	
413	20+25 Lane C	Lt	36G	2×2	3.0	0.66	117	5.0	II	2	186		[illegible]	
414	23+50 Lane C	Lt	36G	1½×2	4.5	0.85	148	6.0	I	2	156		1-12", 2-15"	
416	2+25 Lane F	℄	36G	1½×2	7.0	1.32	189	9.0	I	2	156		2-12"	
417	44+50 Lane D	Rt	36G	2×2	2.5	0.69	120	4.0	II	2	186		1-12"	
418	12+00 Lane C	℄	36G	2×2	2.5	0.69	120	4.0	II	2	186		1-12"	
419	14+75 Lane C	℄	36G	2×2	2.5	0.69	120	3.0	II	2	186		1-18"	
420	4+25 Ramp G	℄	36G	2×2	3.5	0.77	126	5.0	II	2	186	1-24" opening	3-12", 1-15"	
421	4+75 Ramp G	6'Rt	36E	3×2	3.5	1.12	91	6.0				A	1-12"	2-spillways
422	4+75 Ramp G	℄	36B	1½×4	2.5	0.98	181	5.0	I	4	307		2-12"	
423	3+75 Ramp G	℄	36B	1½×3	2.5	0.83	153	4.0	I	3	235		2-12"	
424	3+75 Ramp G	6'Rt	36E	3×2	3.5	1.12	91	6.0				A	1-12"	2-spillways
425	4+25 Ramp G	6'Rt	36E	3×2	3.5	1.12	91	6.0				A	1-12"	2-spillways
426	1+00 Ramp G	Rt	36G	2×2	2.5	0.69	120	4.0	II	2	186		1-18"	
427	1+00 Ramp U	6'Rt	36E	3×2	3.5	1.12	91	6.0				A	1-12"	2-spillways
428	1+00 Ramp U	℄	36B	1½×4	2.5	0.98	177	5.0	I	4	307		2-12"	
429	35+50 Lane D	10.5Rt	36G	2×2	2.5	0.69	120	4.0	II	2	186		1-12"	
430	7+25 Ramp L	℄	36B	1½×4	2.5	0.96	177	5.0	I	4	307		1-18", 1-15"	
431	7+25 Ramp L	6'Rt	36E	3×2	3.0	1.01	79	5.0				A	1-12"	2-spillways
432	25+00 Lane C	Rt	36G	1½×2	2.5	0.60	112	4.0	I	2	156		1-18"	
433	31+25 Lane D	Lt	36G	1½×2	4.5	0.90	150	6.0	I	2	156		2-12"	
434	31+88 Lane D	Rt	36T	5'-0"	3.25	1.85	237	6.5				1 36-T	1-12"	
435	5+75 Lane E	10.5Rt	36G	1½×2	5.5	1.09	165	7.0	I	2	156		2-18"	
436	6+38 Lane E	10.5Rt	36G	2×2	3.5	0.81	133	5.0	II	2	186		1-15", 1-18"	
437	7+00 Lane E	10.5Rt	36G	2×2	2.5	0.64	118	4.0	II	2	186		2-15"	
438	3+25 Ramp F	℄	36B	1½×3	4.5	1.18	200	7.0	I	3	235		1-12", 2-15"	
439	3+75 Ramp F	℄	36G	1½×2	3.0	0.61	108	4.0	I	2	156	1-18" opening	2-12", 1-15"	
440	4+50 Ramp F	℄	36B	1½×4	2.5	0.98	181	5.0	I	4	307		2-12"	
441	3+25 Ramp F	6'Rt	36E	3×2	3.0	1.01	79	5.0				A	1-12"	2-spillways
442	3+75 Ramp F	6'Rt	36C	3×2	3.0	0.98	77	5.0				A	2-12"	2-spillways
443	4+50 Ramp F	6'Rt	36E	3×2	3.0	1.01	79	6.0				A	1-12"	2-spillways
444	0+75 Admiral	30'Rt	36B	1½×4	3.5	1.14	205	7.0	I	4	307	1-15" opening	1-12", 2-18"	
445	1+85 Admiral	30'Rt	36B	1½×4	4.0	1.29	215	7.0	I	4	307		1-15", 1-18"	
446	2+65 Admiral	30'Rt	36E	1½×4	3.0	1.06	198	6.0	I	4	307		2-15"	
447	4+15 Admiral	30'Rt	36B	2×4	3.0	1.17	203	6.0	II	4	366		2-15"	
448	4+20 Admiral	30'Lt	36B	2×4	2.0	0.95	178	4.0	II	4	366		1-15"	
449	1+20 Admiral	30'Lt	36B	1½×4	2.5	1.00	174	5.0	I	4	307	1-18" opening	1-12"	
450	2+50 8th St	21'Lt	36B	2×4	2.5	1.10	185	5.0	II	4	366	1-24" opening	1-12"	
451	2+50 8th St	22'Rt	36B	2×4	2.5	1.10	185	5.0	II	4	366	1-24" opening	1-12"	
452	5+33 10th St	22'Lt	36B	1½×4	2.5	1.00	178	5.0	I	4	307		1-12"	
453	5+95 10th St	18'Lt	36B	2×4	2.5	1.08	185	5.0	II	4	366		1-15"	
454	5+65 10th St	22'Lt	36B	1½×4	3.5	1.16	205	7.0	I	4	307	1-18" opening	1-12", 2-15"	
455	5+33 10th St	22'Rt	36B	1½×3	2.0	0.75	151	4.0	I	3	235		1-12"	
456	5+65 10th St	22'Rt	36B	1½×4	4.5	1.40	235	8.0	I	4	307	1-18" opening	1-12", 2-15"	
457	4+10 Ramp L	6'Rt	36E	3×2	4.5	1.31	114	8.0				A	2-12"	2-spillways
458	3+40 Ramp L	℄	36B	1½×3	2.5	0.85	151	4.0	I	3	235		1-12"	
459	1+10 Ramp R	20'Rt	36B	1½×3	3.5	1.06	164	6.5		3	235		1-12"	See Sh 181
460	7+35 Ramp G	101'Rt	36B	1½×4	2.5	1.00	178	5.0	I	4	307		1-12"	
461	8+35 8th St	Lt	36B	2×4	5.0	1.75	249	10.0	II	4	366	1-24" opening	1-12"	See Sh 181
462	8+60 8th St	Rt	36B	2×4	9.5	1.86	288	[illegible]	II	4	366		1-18"	
462-A	7+79 8th St	Rt	36E	2×3	.75	1.00	81	6.0				A	1-18"	Spillway
463	8+35 8th St	Rt	36B	2×4	5.0	1.71	256	9.5	II	4	366		1-12", 1-15"	See Sh 181
464	8+45 8th St	Rt	36B	2×4	2.5	1.10	182	5.0	II	4	366		1-12"	
465	6+24 9th St	100'Lt	36B	2×4	3.0	1.23	199	6.0	II	4	366		1-12"	
466	5+70 Ramp U	26.5'Lt	36E	3×2	3.5	1.12	91	5.0				A	1-12"	2-spillways
467	5+85 Ramp U	6'Rt	36E	3×3	3.0	1.21	112	7.0				A	2-12"	2-spillways
468	28+95 Lane C	Rt	36B	1½×4	2.5	1.00	174	5.0	I	4	307		1-12"	
469	28+90 Lane C	Lt	36G	1½×2	4.5	0.90	151	5.0	I	2	156		2-12"	
470	25+54 Lane F	Rt	36B	1½×4	2.5	0.98	185	5.0	I	4	307		2-12"	
471	31+00 Lane C	Rt	36B	2×4	2.5	1.10	182	5.0	II	4	366		1-12"	
472	30+68 Lane C	Lt	36G	2×2	5.0	1.12	166	7.0	II	2	186		2-12"	
473	25+23 Lane D	Rt	36B	2×3	3.0	1.04	171	6.0	II	3	280		2-12"	
474	22+25 Lane D	Rt	36B	1½×3	2.5	0.85	147	4.0	I	3	235		1-12"	
475	1+00 Lane K	Rt	36B	1½×4	2.5	1.00	174	5.0	I	4	307		1-12"	
476	1+75 Lane E	Lt	36G	1½×2	5.0	0.95	152	7.0	I	2	156		3-12"	
477	4+20 Lane E	45'Rt	36E	3×2	3.5	1.07	91	7.0				A	2-12"	2-spillways
478	4+52 Lane E	Lt	36G	2×2	3.5	0.84	134	5.0	II	2	186		2-12"	
479	19+25 Lane D	Rt	36C	3×3	5.5	2.36	254	12.0	II	3	280		2-18"	
480	7+90 Ramp X	19'Rt	36C	3×3	4.5	2.06	228	10.0	II	3	280	1-24" opening	3-12"	Set on P175 See Sh 180
481	7+65 Ramp X	32'Lt	36E	3×2	5.5	1.56	133	8.0				A	1-12"	2-spillways
482	2+75 Ramp Y	Rt	36B	1½×3	2.5	0.85	150	4.0	I	3	235		1-12"	
483	3+35 Ramp Y	Rt	36G	1½×2	3.0	0.65	109	4.0	I	2	156	1-18" opening	2-12"	
484	4+00 Ramp Y	Rt	36B	1½×3	4.5	1.24	194	7.0	I	3	235		2-12"	
485	6+00 Ramp X	Lt	36B	1½×3	2.5	0.85	150	4.0	I	3	235		1-12"	
487	3+85 Ramp X	Lt	36C	2.5×4	7.5	3.00	344	16.0	II	4	366		2-12", 1-15"	
488	3+31 Ramp X	Lt	36G	1½×2	6.0	1.15	166	8.0	I	2	156	1-18" opening	2-12"	

LENGTH OF PROJECT

	Station	Feet	Miles
Beginning of Project			
Apparent Length			
Equation and Exceptions			
Total Corrections			
Net Length of Project			
State Length			

Inlet No.	Location	Side	Std.	Size	D'	Cl. B Conc.	Reinf.	Cl. 3	Type	Size	Weight	Grate Opening	Pipe Openings	Remarks
490	20+50 Lane B	Lt	36G	1½×2	3.0	0.65	114	4.0	I	2	156		2-12"	
491	6+36 Lane E	Lt	36G	1½×2	3.0	0.66	115	4.0	I	2	156		1-18"	
492	6+15 Ramp V	Lt	36B	2×4	2.5	1.10	182	5.0	II	4	366		1-12"	See Sh 180
493	5+00 Ramp V	Rt	36B	1½×4	2.5	1.00	178	5.0	I	4	307	1-18" opening	1-18"	
494	5+25 13th St	Lt	36B	1½×4	3.0	1.0	[illegible]	6.0	I	4	307		2-12"	
495	5+25 13th St	Rt	36B	1½×4	1.75	0.82	174	4.0	I	4	307		1-18"	See Sh 181
496	3+00 Ramp V	Rt	[illegible]	1½×4	4.0	1.25	224	8.0	I	4	307		1-18", 1-15"	
497	2+63 Ramp V	Rt	[illegible]	1½×2	3.5	0.65	109	4.0	I	2	156	1-18" opening	2-12"	
498	2+25 Ramp V	Rt	36B	1½×4	2.5	1.00	[illegible]	5.0	I	4	307		1-18"	
502	16+10 Lane D	Rt	36B	1½×4	2.5	1.00	178	5.0	I	4	307		1-18"	
503	[illegible] Ramp V	30'Lt	36E	3×2	3.5	1.12	91	6.0				A	1-12"	2-spillways
505	15+89 Lane D	Rt	36G	1½×2	2.5	0.60	107	4.0	I	2	156	1-18" opening	1-12"	
506	7+25 Ramp X	Rt	36B	1½×4	2.25	0.94	170	5.0	I	4	307		1-12"	
507	8+60 Ramp X	Rt	36B	1½×4	3.5	1.08	[illegible]	5.5	I	4	307		1-12"	
508	22+70 Lane B	40'Lt	36E	3×2	2.5	1.24	112	7.5				A	1-12"	2-spillways
509	6+65 Ramp Y	Lt	36B	1½×4	2.5	1.00	178	5.0	I	4	307		1-18"	
510	10+00 Lane E	Lt	36G	2×2	3.0	0.75	123	5.0	II	2	186		2-12"	
511	10+93 Lane E	Lt	36G	2×2	7.5	1.30	[illegible]	8.0	II	2	186	1-24" opening	1-12"	
512	11+05 Lane E	Lt	36G	1½×2	2.5	0.60	111	4.0	I	2	156		1-12"	
513	9+80 Ramp Y	Lt	36G	2×2	2.5	0.69	120	4.0	II	2	186	1-24" opening	1-18"	
515	9+20 Lane D	Rt	36B	1½×4	2.5	1.00	178	5.0	I	4	307		1-18"	
516	7+00 Lane D	Rt	36B	1½×4	3.0	1.12	[illegible]	6.0	I	4	307		1-18"	
517	2+75 Ramp C-1	℄	36B	1½×4	2.5	0.98	185	5.0	I	4	307		2-18"	
518	18+[illegible] Lane E	℄	36G	1½×2	6.5	[illegible]	[illegible]	9.0	I	2	156		2-12"	
519	3+48 Ramp C-1	℄	36G	2×2	2.5	0.67	120	4.0	II	2	186		1-12"	
520	29+97 Lane E	Lt	36G	1½×2	3.5	0.76	125	5.0	I	2	156		1-18"	
521	3+40 Ramp C-1	℄	36C	2×4	3.5	1.19	189	5.0	I	4	307		1-12"	
522	4+87 Lane D	Rt	36B	1½×4	2.5	1.00	174	5.0	I	4	307		1-18"	
524	6+50 Lane A	℄	36G	1½×2	2.5	0.60	112	4.0	I	2	156		1-12"	
525	[illegible] Ramp C-2	℄	36B	1½×4	2.5	1.14	185	5.0	I	4	307		2-15"	
527	6+50 Ramp C-3	℄	36B	1½×4	2.5	1.00	174	5.0	I	4	307		[illegible]	
528	8+50 Ramp C-1	℄	36C	2×4	4.5	1.62	230	9.0	I	4	307		[illegible]	
529	4+69 Ramp C-2	40'Rt	36E	3×2	3.5	1.14	173	12.0				A	1-15", 1-18"	2-spillways
530	[illegible] Ramp C-2	30'Rt	36E	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]				A	1-12"	See [illegible]
532	6+45 Lane B	℄	36G	1½×2	2.5	[illegible]	[illegible]	4.0	I	2	156		1-18"	
533	7+03 Lane B	℄	36G	1½×2	3.5	0.75	119	5.0	I	2	156	1-18" opening	2-12"	
534	70+35 Lane A	℄	36G	1½×2	2.5	0.60	111	4.0	I	2	156		1-12"	
535	7+75 Lane A	℄	36G	1½×2	2.5	0.60	111	4.0	I	2	156		1-12"	
536	7+05 Lane A	℄	36G	2×2	3.5	0.77	126	5.0	II	2	186	1-24" opening	3-12", 1-15"	
537	71+15 Lane A	Rt	36B	1½×4	2.5	1.00	178	5.0	I	4	307		1-12"	
538	70+50 Lane A	Rt	36B	1½×4	2.5	1.00	178	5.0	I	4	307		1-12"	
539	71+05 Lane A	Rt	36G	2×2	4.5	0.95	[illegible]	[illegible]	II	2	186	1-24" opening	2-12", 2-18"	
540	6+50 Ramp C-2	℄	36B	1½×4	2.5	1.00	178	5.0	I	4	307		1-18"	
543	9+50 Ramp C-2	℄	36C	2×4	2.5	1.19	185	5.0	I	4	307		1-12"	
544	10+00 Ramp C-2	30'Rt	36E	3×2	2.5	0.90	91	4.0				A	1-12"	2-spillways
545	7+55 Ramp (East)	Rt	36C	2×4	2.0	1.19	165	5.0	I	4	307		1-18"	
547	18+05 C-2 Crossover	Lt	36B	1½×4	4.25	1.40	247	9.0	I	4	307		2-12"	
548	11+83 Ramp C-2	35'Lt	36E	3×2	3.5	1.12	91	6.0				A	1-12"	2-spillways
549	11+31 Ramp C-2	35'Lt	36B	1½×4	4.8	1.54	238	9.0	I	4	307		2-12"	
551	6+45 Lane B	Rt	36G	1½×2	2.5	0.60	[illegible]	4.0	I	2	156		1-12"	
552	7+05 Lane B	Rt	36G	2×2	3.5	0.84	135	5.0	II	2	186	1-24" opening	2-12"	
553	4+00 Ramp C-3	℄	36C	2×4	4.0	1.60	[illegible]	8.0	II	4	366		2-12"	
554	2+70 Ramp C-3	℄	36B	1½×4	2.5	1.00	178	5.0	I	4	307		1-18"	
555	3+41 Ramp C-3	30'Rt	36E	3×2	5.0	1.37	107	9.0				A	2-12", 1-18"	2-spillways See Sh 180
556	3+27 Ramp C-3	54'Rt	[illegible]	2×4	7.75	2.45	370	15.0	II	4	366		2-18"	
557	18+75 Lane A	Rt	36B	1½×3	2.5	0.85	147	4.0	I	3	235		1-12"	
558	18+93 Lane A	℄	36G	1½×2	3.5	[illegible]	125	5.0	I	2	156		2-12"	
559	4+40 Lane B	℄	36G	1½×2	4.0	0.80	141	5.0	I	2	156		1-18", 1-15"	
560	4+40 Lane B	Rt	36G	1½×2	3.5	0.75	[illegible]	5.0	I	2	156		2-18"	
561	10+12 Ramp C-3	30'Lt	36E	3×2	6.0	[illegible]	[illegible]	[illegible]				A	1-15", 1-18"	2-spillways
562	11+70 Ramp C-3	30'Rt	36B	1½×4	2.5	1.04	178	5.0	I	4	307		1-12"	See Sh 180
565	0+04 14th St Conn		36B	1½×3	2.25	0.80	125	4.0				Gratings & Frames [illegible]	1-12"	
566	1+00 14th St Conn		36B	[illegible]	[illegible]	0.88	[illegible]	5.0				[illegible]	2-12"	
442A	3+23 8th St	30'Lt	36B	3×2	4.0	[illegible]	[illegible]	[illegible]					[illegible]	2-spillways
567	0+40 Paseo (Down)		36B	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	I	4	307		1-12"	
569	4+78 Paseo (Down)		36B	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	I	4	307		1-12"	
570	1+50 14th St Conn	30'Lt	36E	3×2	4.0	1.22	102	[illegible]				A	1-18"	2-spillways
TOTALS						161.30	23113	[illegible]			31311	12 18" openings, 10 24" openings		

GENERAL SUMMARY — FINAL

Item	Description	Unit	Total Units
	BR AT STA 23+[illegible] (LANE C) DWG NO L-[illegible]		
1-G	Class 1 Exc for Structures	CY	[illegible]
16-B1	Class B-1 Conc (Supr)	CY	[illegible]
16-B	Class B Conc (Sub)	CY	[illegible]
16-C	Class C Conc	CY	[illegible]
17A-A	Aluminum Alloy Handrail	LF	[illegible]
17-B	Fab Str Steel (Fab & Erect)	LBS	[illegible]
17-B	Fab Str Steel (Expansion Devices)	LBS	[illegible]
17-B	Fab Str Steel (Bearings)	LBS	[illegible]
19-A	Reinforcing Steel	LBS	[illegible]
20-W	Conduit System	LS	1
	CONTINGENT ITEMS		
	Stay-in-Place Forms Cl B-1 (Super)	CY	[illegible]
	Eliminate Access Doors	Each	[illegible]
	Relubricate Expansion Devices	LS	1
	Class 1 Exc +25%	CY	[illegible]
	Test Holes	LF	[illegible]
	RET WALL AT STA 24+00 (LANE C) DWG NO A-152		
1-G	Class 1 Exc for Structures	CY	[illegible]
16-B	Class B Conc	CY	[illegible]
19-A	Reinforcing Steel	LBS	[illegible]
	CONTINGENT ITEMS		
	BR AT STA 24+[illegible] (LANE C) DWG NO L-[illegible]		
1-G	Class 1 Exc for Structures	CY	[illegible]
16-B1	Class B-1 Conc (Supr)	CY	[illegible]
16-B	Class B Conc (Sub)	CY	[illegible]
17A-A	Aluminum Alloy Handrail	LF	[illegible]
17-B	Fab Str Steel (Fab & Erect)	LBS	[illegible]
17-B	Fab Str Steel [illegible]	LBS	[illegible]
17-B	Fab Str Steel (Bearings)	LBS	[illegible]
19-A	Reinforcing Steel	LBS	[illegible]
20-W	Conduit System	LS	1
	CONTINGENT ITEMS		
	Stay-in-Place Forms Cl B-1 Conc (Super)	CY	[illegible]
	Eliminate Access Doors	Each	2
	Relubricate Expansion Devices	LS	1
	Class 1 Exc +25%	CY	[illegible]
	Test Holes	LF	[illegible]
	RET WALL AT STA 25+[illegible] (LANE C) DWG NO A-155		
1-G	Class 1 Exc for Structures	CY	[illegible]
16-B	Class B Conc	CY	[illegible]
19-A	Reinforcing Steel	LBS	[illegible]
25-D	Concrete Gutter	LF	[illegible]
	CONTINGENT ITEMS		
	Class 1 Exc +25%	CY	[illegible]
	Test Holes	LF	[illegible]
	RET WALL AT STA 26+60 (LANE C) DWG NO A-156		
1-G	Class 1 Exc for Structures	CY	[illegible]
16-B	Class B Conc	CY	[illegible]
19-A	Reinforcing Steel	LBS	[illegible]
25-D	Concrete Gutter	LF	[illegible]
	CONTINGENT ITEMS		
	RET WALL AT STA 1+25 (RAMP X) DWG NO A-[illegible]		
1-G	Class 1 Exc. for Structures	CY	[illegible]
1-J	Porous Backfill	CY	[illegible]
16-B	Class B Conc	CY	[illegible]
19-A	Reinforcing Steel	LBS	[illegible]
24-B	8" Class B Perf Corr Metal Pipe U.D.	LF	[illegible]
25-D	Concrete Gutter	LF	[illegible]
	CONTINGENT ITEMS		
	RET WALL AT STA 15+06.27 (LANE E) DWG NO A-[illegible]		
1-G	Class 1 Exc for Structures	CY	[illegible]
16-B	Class B Conc	CY	[illegible]
19-A	Reinforcing Steel	LBS	[illegible]
25-D	Concrete Gutter	LF	[illegible]
	CONTINGENT ITEMS		

PROJECT ACCEPTED 10-30-62

Prepared By .... Date .... 19 .... Checked in Dist. Office By .... Date .... 19 .... Checked in Central Office By .... Date .... 19 .... Revised By .... Date .... 19 ....

S & P - 2AS

LOCATION *From the Crosstown Fwy Br. Over Paseo Blvd, W & N To South of Independence Ave.*

TYPE *Grading Earth, Drainage, Ret. Walls & Concrete Pavement*

MISSOURI STATE HIGHWAY COMMISSION

SUMMARY OF QUANTITIES

Sheet 4 of 4

FED. ROAD DIST. No.	STATE	PROJECT	FISCAL YEAR	SHEET No.	TOTAL SHEETS
5	MO.	I-70-1(7)2		2A	263
DIST. No.	COUNTY			ROUTE	SEC. No.
4	JACKSON			I-70	

TYPE A GUARD RAIL

Sta.	To Sta.	Loc.	Side	Lin. Ft.	Special End Sec.	Raised	Remarks
0+40	2+17	Rp."F"	Lt.	175.0			2-30' Radius
1+01	2+40	Ln."F"	Lt.	137.5			
2+06	2+59	Ln"F"	Rt.	50.0			
46+00	49+94	Ln"D"	Lt.	400.0			
7+00	9+48	Rp."G"	Lt.	258.2			2-50' Rad, 1-8.2' Section
0+15	4+00	Serv. St.	Lt.	387.5			2-50' Rad.
33+22	36+21	Ln."D"	Lt.	300.0			
36+25	38+99	Ln."D"	Lt.	275.0			
2+31	3+67	Rp."S"	Rt.	135.5	1		1-10.5' Section
28+52	28+83	Ln."C"	Rt.	32.1	1		1-7.1' Section
28+88	31+08	Ln."C"	Rt.	219.8	1		1-7.3' Section
30+34	31+11	Ln."C"	Lt.	68.7	1	1	1-6.2' Section
30+31	31+11	Ln."C"	Lt.	68.8	1	1	1-6.3' Section
22+30	23+30	Ln."D"	Rt.	100.0	1		
22+83	23+32	Ln."D"	L.	50.0	1		
14+37	15+37	Ln."D"	Lt.	300.0	1		
15+41	19+05	Ln."D"	Lt.	375.0			
4+03	4+51	Ln."E"	Rt.	50.0	1		
4+23	4+98	Ln."E"	Lt.	75.0	1		
3+71	4+21	Rp."Y"	Rt.	50.0	1		
3+87	4+56	Rp."Y"	Lt.	75.0	1		
9+65	10+63	Ln"D"	Rt.	100.0	1		
10+16	10+41	Ln."D"	Lt.	25.0	1		
17+52	18+04	Ln."B"	Rt.	50.0	1		
8+72	11+72	Ln."B"	Lt.	300.0			
11+75	14+75	Ln."B"	Lt.	300.0			
14+79	17+78	Ln."B"	Lt.	300.0	1		
13+43	13+93	Ln."E"	Lt.	50.0	1		
13+31	14+03	Ln."E"	Rt.	75.0	1		
15+78	16+28	Ln."E"	Lt.	50.0	1		
16+27	18+27	Ln."A"	Lt.	200.0			
61+05	65+05	Ln."A"	Rt.	400.0			
73+35	74+35	Ln."A"	Rt.	100.0	1		
74+10	74+35	Frwy	Lt.	25.0	1		
Behind R/W		Rp."U"		100.0			
Alley East of Charlotte Between 12th St. & 13th St.				137.5			
		Total		3795.6	21	2	
		Pay		3796	21	2	

TYPE A GUARD RAIL (STRIPED)

Location	L.F.
7+25± Rp."G"	12.5
2+50± Rp."F"	12.5
6+20± 9th St.	12.5
6+76± Rp."U"	37.5
6+18± 11th St.	12.5
Harrison St. & Truman Rd.	25.0
Tracy South of Freeway	37.5
Virginia South of Freeway	37.5
Lydia South of Freeway	37.5
14th Street & Tracy	37.5
14th Street & Virginia	37.5
14th Street & Lydia	37.5
Alley West of Troost & South of 13th St.	12.5
Alley West of Harrison & South of 12th St.	62.5
Alley East of Charlotte Between 12th & 13th	50.0
Total	462.5 Lin. Ft.
Pay	463 Lin. Ft.

TYPE B GUARD RAIL

Sta.	To Sta.	Loc.	Side	Lin. Ft.	Spec. Base	Remarks
23+39	23+64	Ln."C"	Lt.	25.0	1	
23+76	25+01	Ln."C"	Lt.	121.8	1	1-9.3' Section
25+05	26+93	Ln."C"	Lt.	182.95		1-7.95' Section
28+35	29+60	Ln."C"	Lt.	121.05		1-8.55' Section
29+64	30+87	Ln."C"	Lt.	62.5	1	
6+68	7+06	Ln."B"	Lt.	162.5		
7+02	6+14	Ln."B"	Lt.	87.5	1	
6+02	74+50 Ln."A"	Ln."B"	Lt.	225.0	1	Post in Place on Bridge
		Total		988.3	5	
		Pay		988	5	

4" CONCRETE SLOPE PROTECTION

Bridge No.	Location	Sq. Yd.	Remarks
L-934-1	Under Ln."A" Bridge (Over Ln."F" North)	115.0	See Sh. No. 202 & 203
L-934-2	Under Ln."A" Bridge (Over Ln."C")	348.0	
L-934-3	Under Rp."C" Bridge (Over Ln."D")	214.9	
L-935	Under Ln"F"(No) Bridge (Over Ln."C")	388.1	
L-936	Under Admiral Blvd. Bridge	1132.7	
L-937	Under Eighth Street Bridge	911.5	
L-938	Under Ninth Street Bridge	712.0	
L-939-1	Under Tenth Street Bridge	689.8	
L-939-2	Under Rp."S" Bridge (Over Rp."U")	106.7	
A-247	Under Ln."E" Bridge (Over Rp."X")	202.1	
Between Bridges A-244 and A-245		13.9	
	Total	4834.7	

LENGTH OF PROJECT

End of Project — Station
Beginning of Project — Station
Apparent Length — Feet
Equations and Exceptions:
Total Corrections — Feet
Net Length of Project — Feet
State Length = — Miles
Federal Length = — Miles

Spread, Shape, & Compact 4" Gran. Base For P.C.C. Pavt.
Pay — 92967 S.Y. See Sheet No. 200

CONCRETE CURB & GUTTER

Sta	To Sta	Location	Side	Type A	Type A-1	Type B	Type B-1	Type C	Remarks
31+01	31+89^{10}	Lane"D"	Rt.	89.2					
64+64	65+64	Lane"A"	Lt.	100.0					
73+30.03 Crosstown	8+01	Lane"B"	Rt.	397.4					
27+08^{31}	26+62^{28}	Lane"D"	Rt.	50.5					
24+60	25+38	Lane"B"	Lt.	79.9					
0+72±	4+63^{5}	Lane"E"	Lt.	391.5					
8+12^{15}	13+83^{0}	Lane"E"	Lt.	571.5					
50+50	45+74^{6}	Lane"D"	Lt.		484.4				
50+50	50+75^{3}	Lane"D"	Lt.		25.3				Replaced
4+54^{09}	7+30	Lane"F"	Rt.		290.0				
10+93±	9+50	Lane"F"	Lt.		143.0				
32+54	41+75	Lane"D"	Lt.		938.6				
12+72^{14}	23+21^{68}	Lane"D"	Lt.		1073.9				
0-11	2+50	Lane"C"	Lt.		260.7				
2+50	7+87^{6}	Lane"E"	Lt.		567.0				
10+00	11+39^{4}	Lane"E"	Rt.		139.7				
23+23	25+00	Lane"C"	Rt.		177.0				
8+12	11+01	Lane"E"	Rt.		295.4				
25+50	26+34^{84}	Lane"F"	Lt.		87.0				
61+05	61+42^{14}	Lane"A"	Lt.		38.0				
29+57^{58}	32+00	Lane"D"	Lt.			242.42			
74+30.03	8+25	Lane"B"	Lt.			420.0			
22+15	24+60	Lane"B"	Lt.			243.0			
23+60	26+67^{5}	Lane"C"	Lt.			317.5			
28+61	31+05	Lane"C"	Lt.			245.7			
15+84	18+90	Lane"E"	Lt.			292.0			
63+75	64+64	Lane"A"	Lt.			87.6			
69+36	74+30	Lane"A"	Lt.			496.9			
32+00	32+54	Lane"D"	Lt.				54.2		
25+18^{2}	27+64^{58}	Lane"D"	Lt.				230.1		
8+25	17+06^{8}	Lane"B"	Lt.				915.0		
20+11.4	22+15	Lane"B"	Lt.				204.0		
50+50	41+06^{6}	Lane"D"	Rt.					941.9	
9+50	4+54^{0}	Lane"F"	Lt.					493.8	
0+00	2+44	Lane"E"	Lt.					244.0	
41+75	43+28^{3}	Lane"D"	Lt.					159.9	
33+70	38+20	Lane"D"	Rt.					458.2	
2+50	23+60	Lane"C"	Lt.					2099.9	
5+00	13+15	Lane"C"	Rt.					826.7	
2+50	10+00	Lane"E"	Rt.					750.0	
25+00	26+68	Lane"C"	Rt.					169.8	
			Total	1680.0	4520.0	2345.12	1403.3	6144.2	Field Meas.

INTEGRAL CURB

Revised Plan Quanitity = 25396 L.F. See Sh. No. 188
Measured Quanitity = 25436 L.F.
Pay 40 L.F.

DEFICIENT PAVEMENT THICKNESS

Deduct 553.01 See Special Sheet No. 222 For Itemized Computations For Pavement Deductions.

CONCRETE GUTTER

Sta	To Sta	Location	Side	"A"	"B"	Outlet to D.I.	Remarks
3+00	4+09	Ramp"L"	Rt.	103.9		457	
4+11	7+24	Ramp"L"	Rt.	304.2		431	
1+20	3+74	Ramp"G"	Rt.	252.8		424	
3+76	4+24	Ramp"G"	Rt.	47.0		425	
4+26	4+74	Ramp"G"	Rt.	47.0		425	
4+76	9+50	Ramp"G"	Rt.	474.4		421	
0+50	3+24	Ramp"F"	Rt.	258.5		441	
3+26	3+74	Ramp"F"	Rt.	47.0		442	
3+76	4+49	Ramp"F"	Rt.	72.0		442	
0+99	4+51 Ramp"F"	Ramp"U"	Rt.	485.5		443	
1+01	3+90	Ramp"U"	Rt.	483.3		427	
3+90	5+84	Ramp"U"	Rt.			467	
7+91	8+64	Ramp"U"	Rt.	113.7		166	
4+44	7+10	Ramp"X"	Lt.	266.7		304	
6+40	11+02	Ramp"C-2"	Lt.	465.2		548	
0+13	3+65	Ramp"C-3"	Lt.	355.7		561	
0+36	2+35	Ramp"R"	Rt.	200.0		156	
Back of Our Lady of Mercy Home				102.8		462	
1+85	5+74	Alley E. Troost			390.9		See Bridge Drawing A-2[illegible]
		Total		4078.7	390.9		

CONCRETE CURB (20")

Sta.	Sta	Location	Side	Lin. Ft.	Remarks
(Paseo Project)		Lane"B"	South	80.3	East of Nose "B" to Ln"F"
0+45	2+70	Ramp"L"	East	272.4	
0+00	0-29±	Ramp"C-3"	Left	29.4	
6+19^{36}	-	Ramp"U"	Right	62.6	Replacement
14th St. - Alleys Forrest To Paseo				60.0	
14th Street At Tracy				46.2	
14th Street At Virginia				62.7	
14th Street At Lydia East				183.7	
North of 8th & North 9th St. ~ Alley				97.5	
14th St. & Paseo ~ Replacement				22.0	S.W. Corner
Harrison Between 12th & 13th St.				142.7	
		Totals		1059.5	Field Meas.

MOVABLE BARRICADES

Location	Number
6th and Charlotte	2
Lane "E" (North) & Existing Lane "A"	4
Admiral & Charlotte	3
Admiral & Troost	3
8th Street & Charlotte	3
8th Street & Harrison	4
10th Street & Charlotte	2
10th Street & Harrison	2
Ramp "R" Sta. 0+35	1
Ramp "U-4" Sta. 1+93	1
Ramp "U" Sta. 8+35	1
13th Street & Harrison	4
14th Street & Tracy Ave	1
Tracy Ave. North of Truman Rd.	1
14th Street & Virginia Ave.	1
Virginia Ave. North of Truman Rd.	1
14th Street & Lydia Ave	1
Lydia Ave. North of Truman Rd.	1
Total	36

GENERAL SUMMARY FINAL PLANS

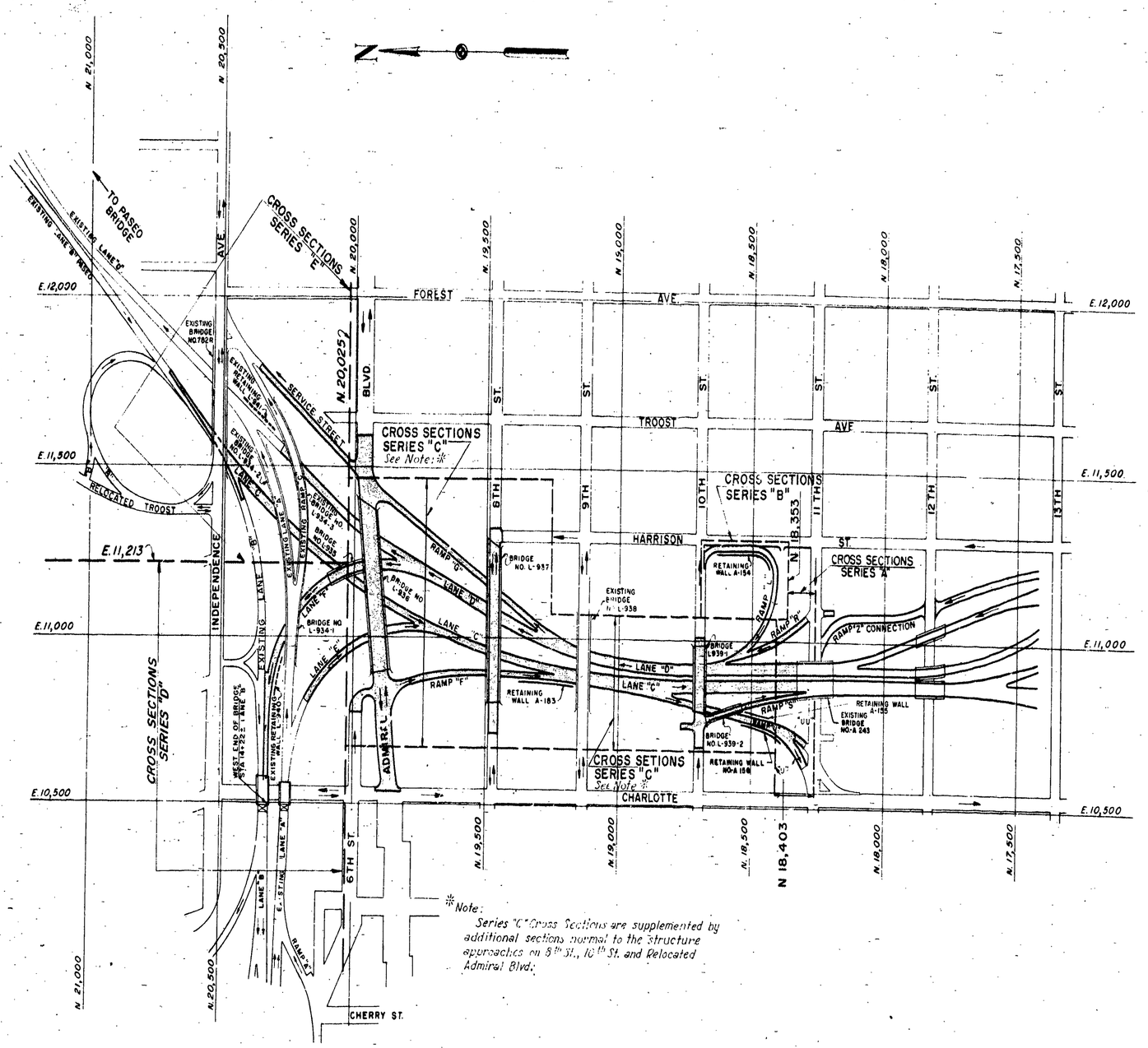
ITEM NO.	DESCRIPTION	UNIT	TOTAL UNITS	NO. UNITS FED. AID ONLY

Project Accepted 10-30-62

Prepared By ________ Date ________ 19__ Checked in Dist. Office By ________ Date ________ 19__ Checked in Central Office By [illegible] Date [illegible] 19[illegible] Revised By ________ Date ________ 19__

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	I 70 ( )		3	
DIST. NO.	COUNTY		ROUTE	SEC.	
4	JACKSON		I-70		

MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE



Note:
For continuation of General Plan South of 11th St see General Plan 14th St Interchange.

*Note:
Series "C" Cross Sections are supplemented by additional sections normal to the structure approaches on 5th St., 10th St. and Relocated Admiral Blvd.

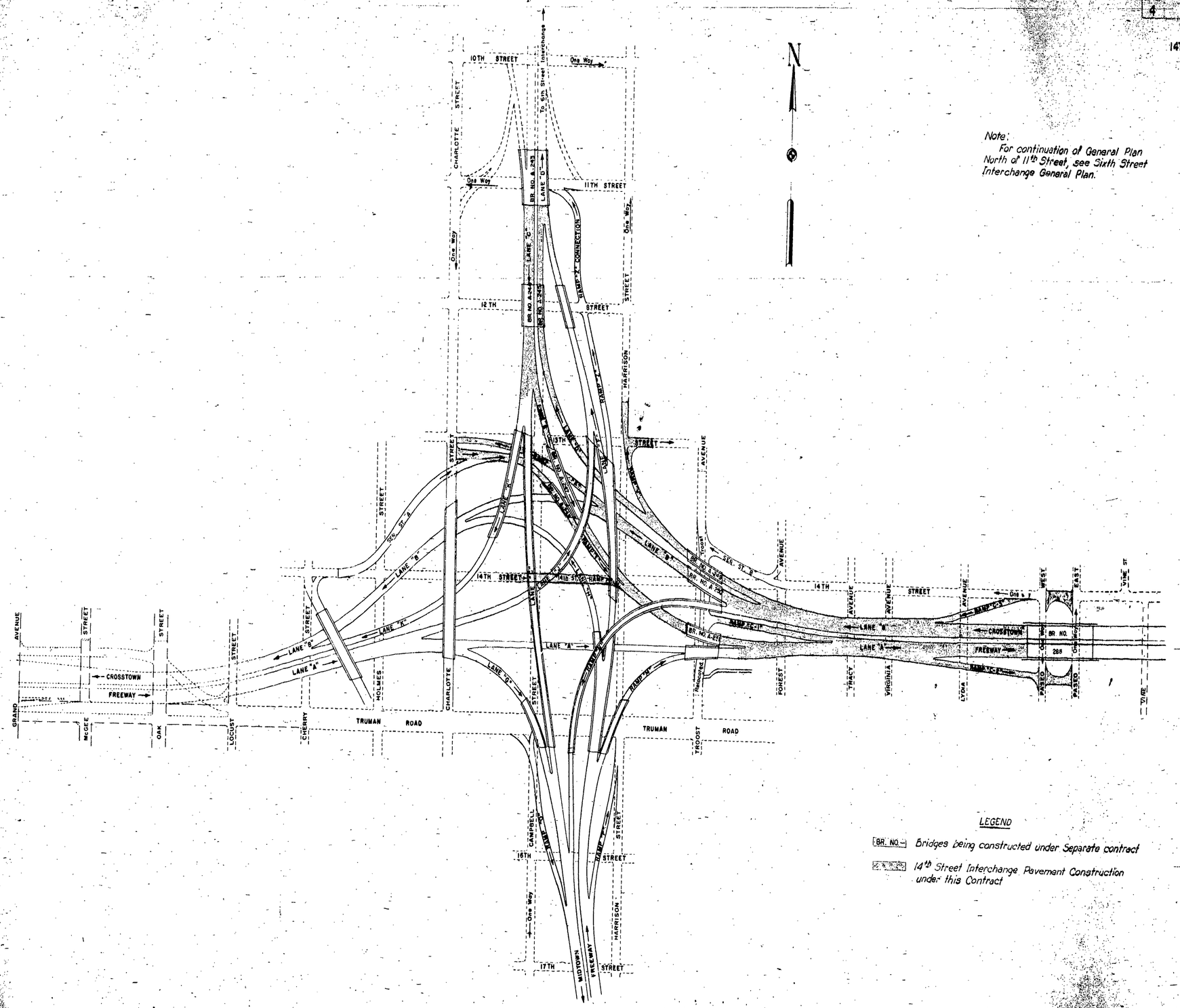
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

DRAWN JFJ	DATE 3-17-58	TRACED M.A.C.	DATE 3-19-58
CHECKED HHB	DATE 3-19-58	SCALE 1" = 200'-0"	

GENERAL PLAN

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	I-70-1 (7)		4	
DIST. NO.	COUNTY		ROUTE		
4	JACKSON		I-70		

SOUTHEAST FREEWAY
14TH STREET INTERCHANGE



Note:
For continuation of General Plan North of 11th Street, see Sixth Street Interchange General Plan.

LEGEND

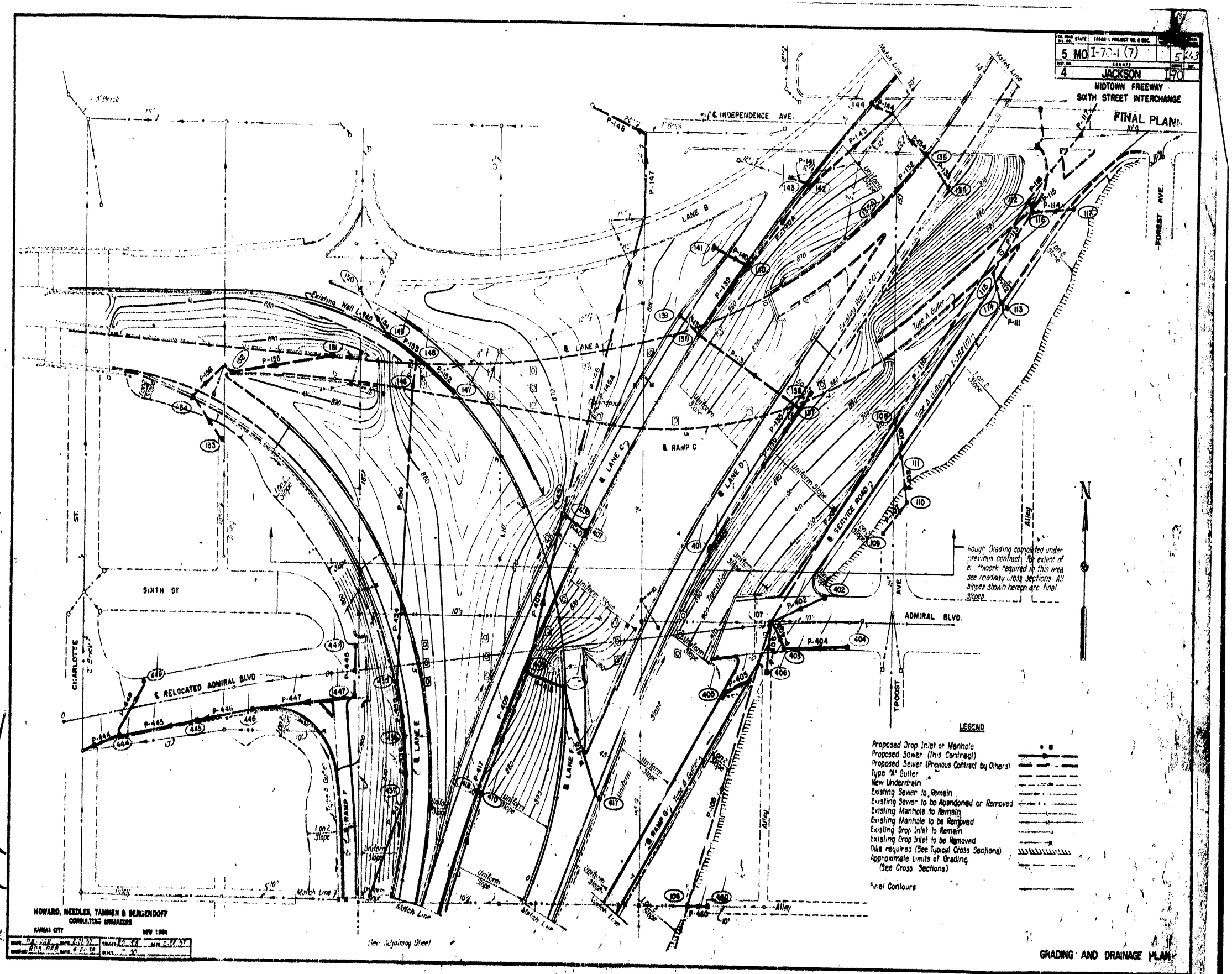
BR. NO. — Bridges being constructed under Separate contract

14th Street Interchange Pavement Construction under this Contract

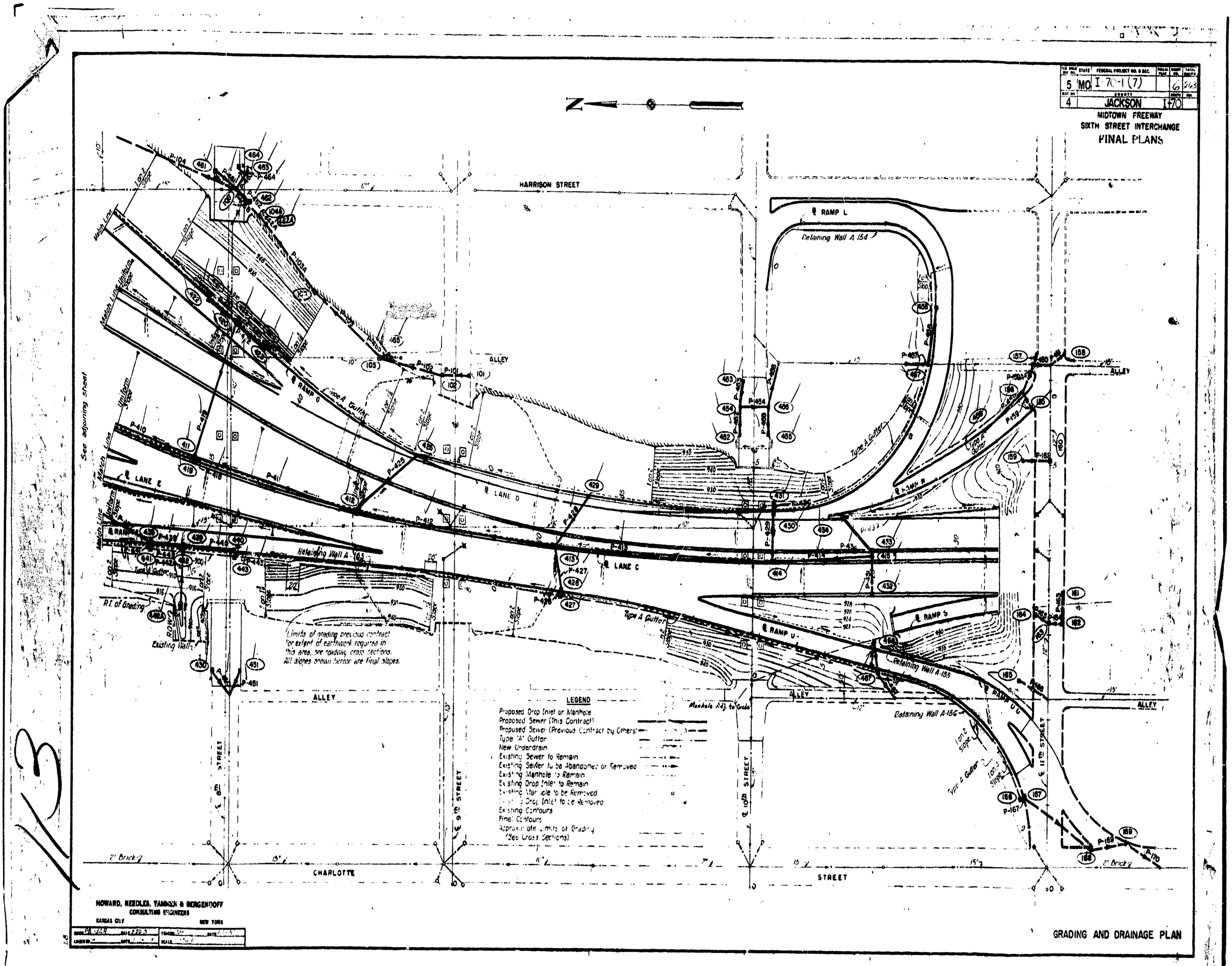
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

MADE A.L.H.	DATE 7-6-57	TRACED R.E.M. MAC	DATE 8-20-57		
CHECKED M.E.C.	DATE 8-22-57	SCALE 1" = 200'-0"			

GENERAL PLAN



5 MO I-70-1 (7) 5 263
4 JACKSON I-70
MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE
FINAL PLANS
℄ INDEPENDENCE AVE.
LANE B
LANE A
LANE C
LANE D
LANE E
LANE F
RAMP C
RAMP F
RAMP G
SERVICE ROAD
℄ RELOCATED ADMIRAL BLVD
SIXTH ST
CHARLOTTE ST.
ADMIRAL BLVD.
TROOST AVE.
FOREST AVE.
Existing Wall L-940
Existing Wall L-941
Type A Gutter
Uniform Slope
Transition
Match Line
Alley
Rough Grading completed under previous contract. For extent of earthwork required in this area see roadway cross sections. All slopes shown hereon are final slopes.
See Adjoining Sheet
LEGEND
Proposed Drop Inlet or Manhole
Proposed Sewer (This Contract)
Proposed Sewer (Previous Contract by Others)
Type "A" Gutter
New Underdrain
Existing Sewer to Remain
Existing Sewer to be Abandoned or Removed
Existing Manhole to Remain
Existing Manhole to be Removed
Existing Drop Inlet to Remain
Existing Drop Inlet to be Removed
Dike required (See Typical Cross Sections)
Approximate Limits of Grading (See Cross Sections)
Final Contours
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY
NEW YORK
GRADING AND DRAINAGE PLAN



FED. ROAD DIV. NO. | STATE | FEDERAL PROJECT NO. & SEC. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS
5 | MO | I-70-1 (7) | 6 | 263
DIST. NO. | COUNTY | COUNTY | SEC.
4 | JACKSON | I-70
MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE
FINAL PLANS
HARRISON STREET
ALLEY
CHARLOTTE STREET
℄ RAMP L
Retaining Wall A 154
℄ RAMP G
℄ LANE E
℄ LANE D
℄ LANE C
℄ RAMP U
℄ RAMP S
℄ RAMP U U
Retaining Wall A-163
Retaining Wall A-155
Retaining Wall A-156
Type A Gutter
Match Line
Uniform Slope
See adjoining sheet
P.I. of Grading
Existing Wall
Limits of grading previous contract for extent of earthwork required in this area, see roadway cross sections. All slopes shown hereon are final slopes.
Manhole Adj. to Grade
℄ 8th STREET
℄ 9th STREET
℄ 10th STREET
℄ 11th STREET
2' Brick
LEGEND
Proposed Drop Inlet or Manhole
Proposed Sewer (This Contract)
Proposed Sewer (Previous Contract by Others)
Type "A" Gutter
New Underdrain
Existing Sewer to Remain
Existing Sewer to be Abandoned or Removed
Existing Manhole to Remain
Existing Drop Inlet to Remain
Existing Manhole to be Removed
Existing Drop Inlet to be Removed
Existing Contours
Final Contours
Approximate Limits of Grading (See Cross Sections)
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY
NEW YORK
GRADING AND DRAINAGE PLAN

STATE	FEDERAL PROJECT NO.	LOCAL YEAR	SHEET NO.	TOTAL SHEETS
MO	I-70-1(7)			7263
COUNTY				
JACKSON	I-70			

SOUTHEAST FREEWAY
14TH STREET INTERCHANGE
FINAL PLANS

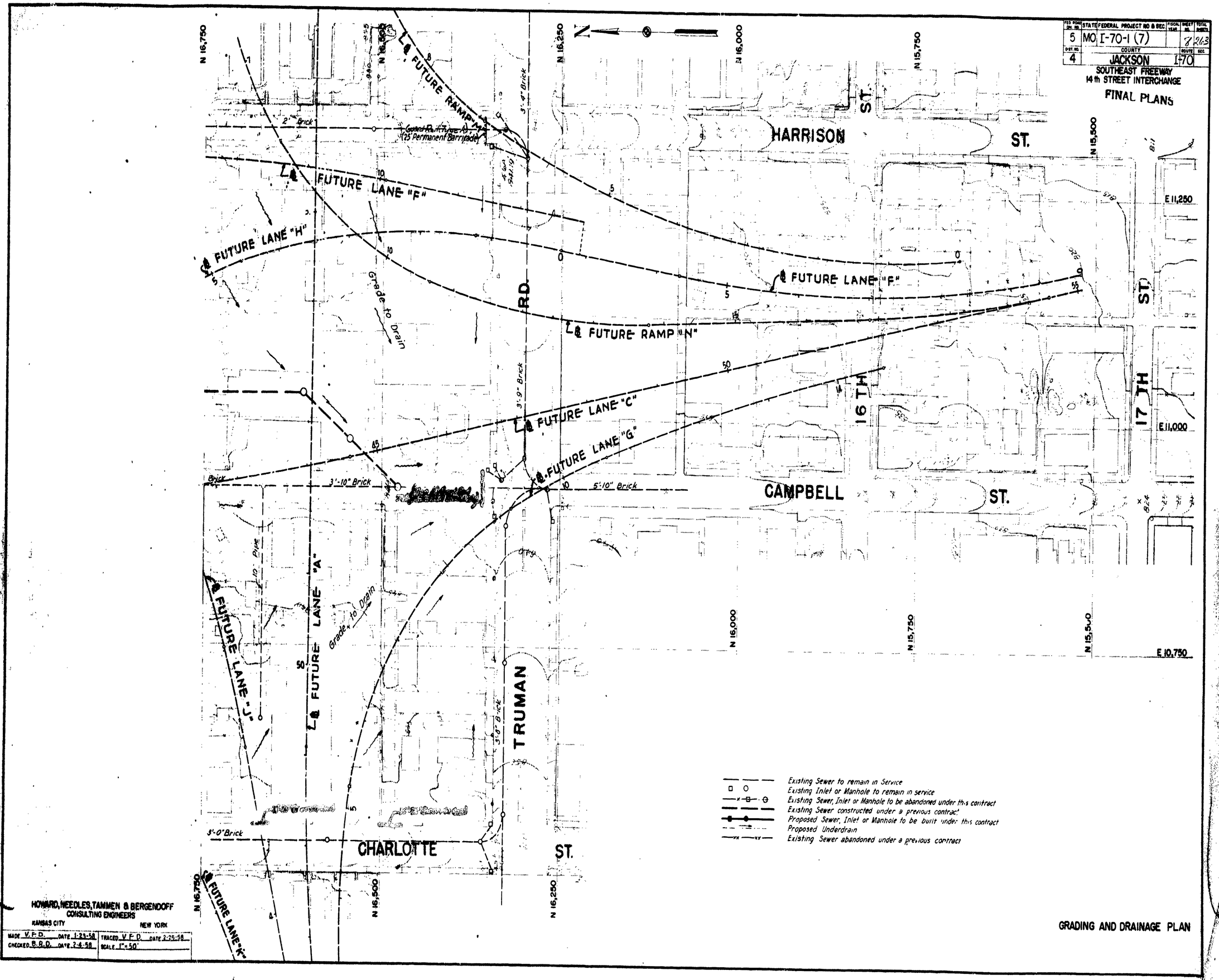
Existing Sewer to remain in service
Existing Inlet or Manhole to remain in service
Existing Sewer, Inlet or Manhole to be abandoned under this contract
Existing Sewer constructed under a previous contract
Proposed Sewer, Inlet or Manhole to be built under this contract
Proposed Underdrain
Existing Sewer abandoned under a previous contract

HARRISON ST.
CAMPBELL ST.
11 TH ST.
12 TH ST.
13 TH ST.
14 TH ST.
CHARLOTTE ST.

Limits of grading previous contract for extent of earthwork required in this area see roadway cross sections. All slopes shown hereon are final slopes.

Base Line "A"
Base Line "B"
Base Line "C"
Base Line "D"
Base Line "E"
Base Line "F"
Base Line "K"
Base Line "V"
Base Line North Legg
Base Line "Y"
Base Line "Z"
Base Line "1"
Base Line "2"

Grade to Drain
Grade to Ditch
Grade to Drain
Grade to Drain
Grade to Drain



FED. ROAD DIV. NO. 5
STATE MO
FEDERAL PROJECT NO & SEC. I-70-1 (7)
FISCAL YEAR
SHEET NO. 8
TOTAL SHEETS 263
DIST. NO. 4
COUNTY JACKSON
ROUTE I-70
SEC.
SOUTHEAST FREEWAY
14th STREET INTERCHANGE
FINAL PLANS
HARRISON ST.
CAMPBELL ST.
TRUMAN RD.
CHARLOTTE ST.
16TH ST.
17TH ST.
℄ FUTURE RAMP "M"
℄ FUTURE LANE "F"
℄ FUTURE LANE "H"
℄ FUTURE RAMP "N"
℄ FUTURE LANE "C"
℄ FUTURE LANE "G"
℄ FUTURE LANE "A"
℄ FUTURE LANE "J"
℄ FUTURE LANE "K"
Guard Rail (Type A) (25' Permanent Barricade)
Grade to Drain
2" Brick
3'-4" Brick
3'-9" Brick
3'-10" Brick
5'-10" Brick
3'-0" Brick
10" Pipe
N 16,750
N 16,500
N 16,250
N 16,000
N 15,750
N 15,500
E 11,250
E 11,000
E 10,750
Existing Sewer to remain in Service
Existing Inlet or Manhole to remain in service
Existing Sewer, Inlet or Manhole to be abandoned under this contract
Existing Sewer constructed under a previous contract
Proposed Sewer, Inlet or Manhole to be built under this contract
Proposed Underdrain
Existing Sewer abandoned under a previous contract
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY
NEW YORK
MADE V.F.D. DATE 1-23-58
TRACED V.F.D. DATE 2-25-58
CHECKED B.R.D. DATE 2-4-58
SCALE 1"=50'
GRADING AND DRAINAGE PLAN

FED ROAD DIV NO	STATE	FEDERAL PROJECT NO & SEC	FISCAL YEAR	SHEET NO	TOTAL SHEETS
5	MO	I-70-1(7)		9	263
DIST NO		COUNTY	ROUTE	SEC	
4		JACKSON	I-70		

SOUTHEAST FREEWAY
14TH STREET INTERCHANGE

FINAL PLANS

Existing Sewer to remain in service
Existing Inlet or Manhole to remain in service.
Existing Sewer, Inlet or Manhole to be abandoned under this contract
Existing Sewer constructed under a previous contract
Proposed Sewer, Inlet or Manhole to be built under this contract
~~Proposed~~ Underdrain
Existing Sewer Abandoned under a previous contract

Limits of grading previous contract for extent of earthwork required in this area see roadway cross sections. All slopes shown are final slopes.

Retaining Wall constructed under a previous contract by others

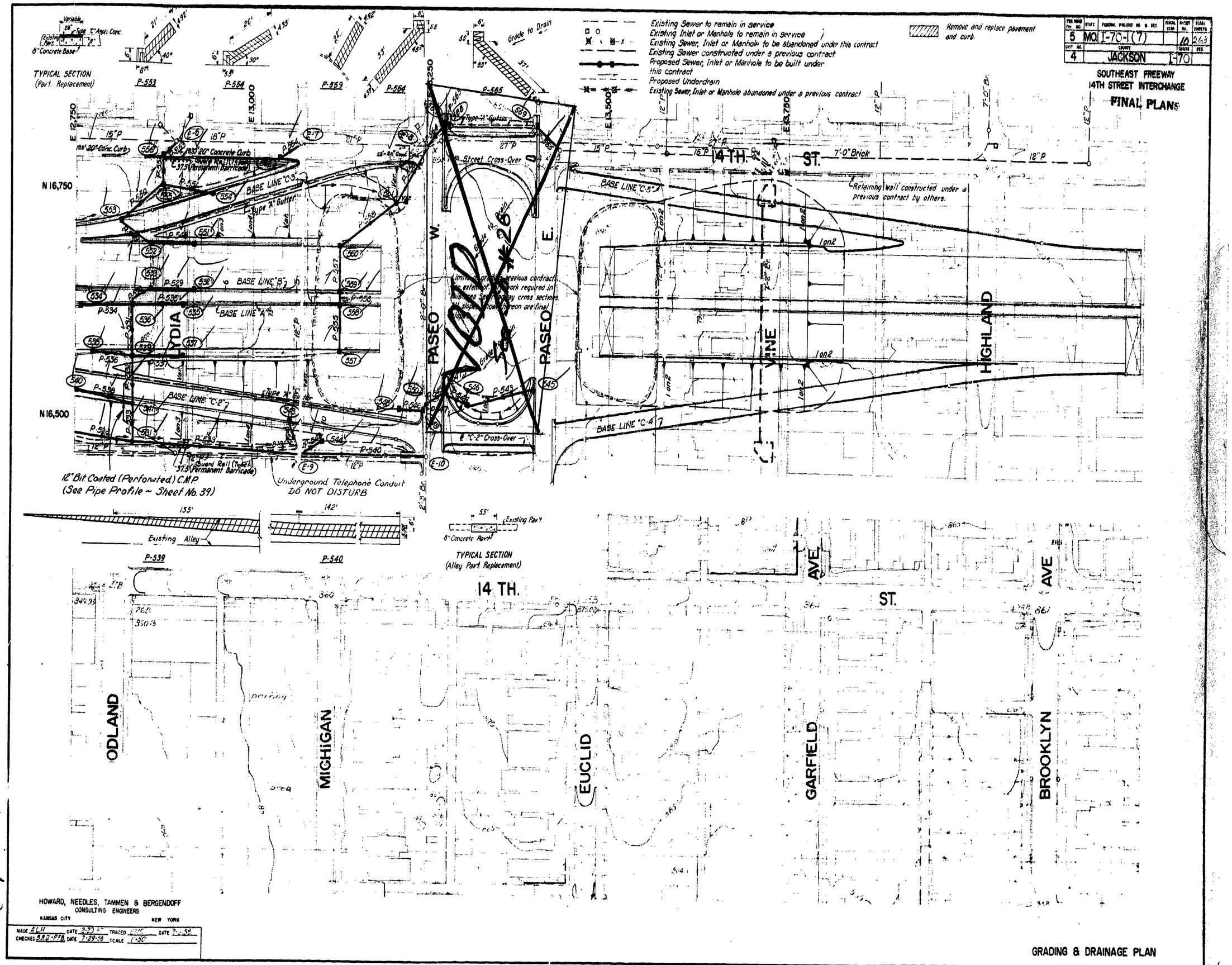
Retaining Wall to be constructed under a previous contract by others

Underground Telephone Conduit DO NOT DISTURB

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

MADE A.L.H. DATE 2-22-57 TRACED S.M.O. DATE 2-6-58
CHECKED B.P.D. DATE 3-28-58 SCALE 1"=50'

GRADING AND DRAINAGE PLAN



Existing Sewer to remain in service
Existing Inlet or Manhole to remain in service
Existing Sewer, Inlet or Manhole to be abandoned under this contract
Existing Sewer constructed under a previous contract
Proposed Sewer, Inlet or Manhole to be built under this contract
Proposed Underdrain
Existing Sewer, Inlet or Manhole abandoned under a previous contract
Remove and replace pavement and curb.
5 MO. I-70-1(7) 10
4 JACKSON I-70
SOUTHEAST FREEWAY
14TH STREET INTERCHANGE
FINAL PLANS
TYPICAL SECTION
(Pav't. Replacement)
8" Concrete Base
P-553
P-554
P-559
P-564
P-565
Grade to Drain
14TH. ST.
7'-0" Brick
Retaining wall constructed under a previous contract by others.
BASE LINE "C-3"
BASE LINE "B"
BASE LINE "A"
BASE LINE "C-2"
BASE LINE "C-5"
BASE LINE "C-4"
Type "A" Gutter
"C-2" Cross-Over
Guard Rail (Type A)
37.5' Permanent Barricade
N 16,750
N 16,500
E 12,750
E 13,000
E 13,500
E 13,750
PASEO W.
PASEO E.
LYDIA
VINE
HIGHLAND
12" Bit. Coated (Perforated) C.M.P.
(See Pipe Profile ~ Sheet No. 39)
Underground Telephone Conduit
DO NOT DISTURB
Existing Alley
P-539
P-540
TYPICAL SECTION
(Alley Pav't. Replacement)
Existing Pav't.
8" Concrete Pav't.
14 TH. ST.
ODLAND
MICHIGAN
EUCLID
GARFIELD AVE.
BROOKLYN AVE.
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY
NEW YORK
MADE A.L.H. DATE 2-20-57 TRACED DATE 2-1-58
CHECKED B.R.D.-P.F.B. DATE 7-29-56 SCALE 1"=50'
GRADING & DRAINAGE PLAN

STATE	GENERAL PROJECT NO. & SEC.	SHEET	TOTAL SHEETS
MO	I-70-1 (7)	11	79
DISTRICT	COUNTY		
4	JACKSON		

MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE

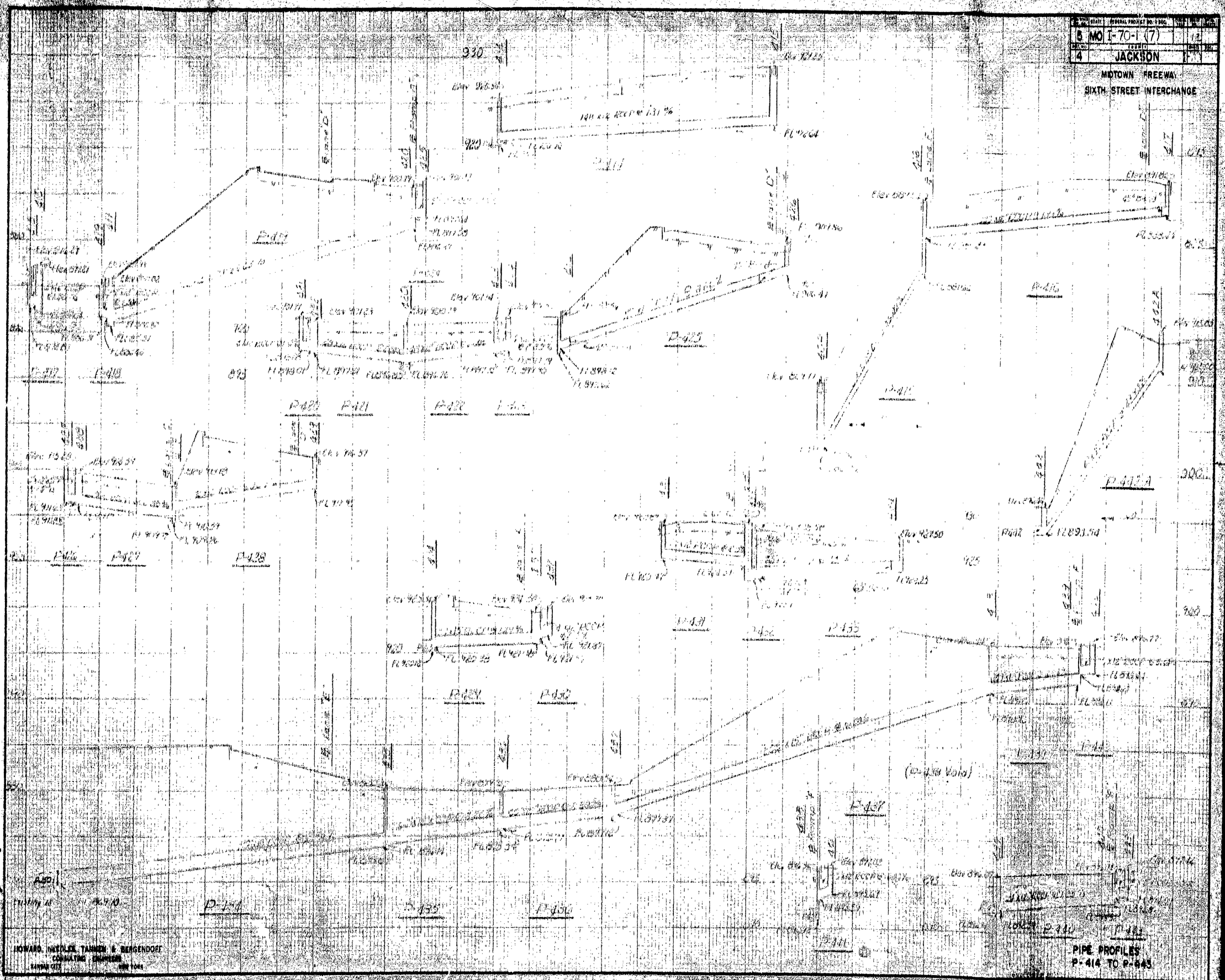
P-401
P-402
P-403
P-404
P-405
P-406
P-407
P-408
P-409
P-410
P-411
P-412
P-413

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

PIPE PROFILES
P-401 TO P-413

STATE	FEDERAL PROJECT NO. (IF ANY)	SHT. NO.	NO. SHTS.
5 MO	I-70-1 (7)	2	
DIST. NO.	COUNTY	CONT. NO.	
4	JACKSON		

MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE



STATE	FEDERAL PROJECT NO. F.A.S.C.	SHEET NO.	TOTAL SHEETS
MO	I-70-1 (7)		
COUNTY			
JACKSON	I-70		

MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE

P-448 · P-447 · P-446 · P-445 · P-449 · P-444

P-450 · P-451 · P-452 · P-453 · P-454 · P-455 · P-456

P-457 · P-458 · P-459 · P-460 · P-461 · P-462

P-463 · P-464 · P-465 · P-466 · P-467

REVISED NEEDLES TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

PIPE PROFILES
P-444 TO P-467

STATE	FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
5 MO	I-70-1 (7)	14	
DIST. NO.	COUNTY	ROUTE NO.	
4	JACKSON	I-70	

SOUTHEAST FREEWAY
14th STREET INTERCHANGE

P-468 P-467 P-470 P-471 P-472 P-473 P-474 P-475 P-476 P-457 P-478 P-477 P-479 (P-480 VOID) P-481 P-482 P-483 P-484 P-485 P-496 P-497 P-498 P-499

PIPE PROFILES
P-468 TO P-497

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	I-70-1 (7)		15	
DIST. NO.		COUNTY		ROUTE	SEC.
4		JACKSON		I-70	

SOUTHEAST FREEWAY
14th STREET INTERCHANGE

HARRISON STREET SEWER RELOCATION

P-498 P-499 P-500 P-501 P-502 P-503 P-504 P-505 P-506 P-507 P-508 P-509 P-510 P-511 P-512 P-513 P-514 P-515 P-516 P-517 P-518 P-519 P-520

Elev 869.00 Elev 869.10 Elev 869.00 Elev 869.00 Elev 869.00

FED. ROAD DEM. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	I-70-1(7)		16	
DIST. NO.	COUNTY			ROUTE	SEC.
4	JACKSON			I-70	

SOUTHEAST FREEWAY
14th STREET INTERCHANGE

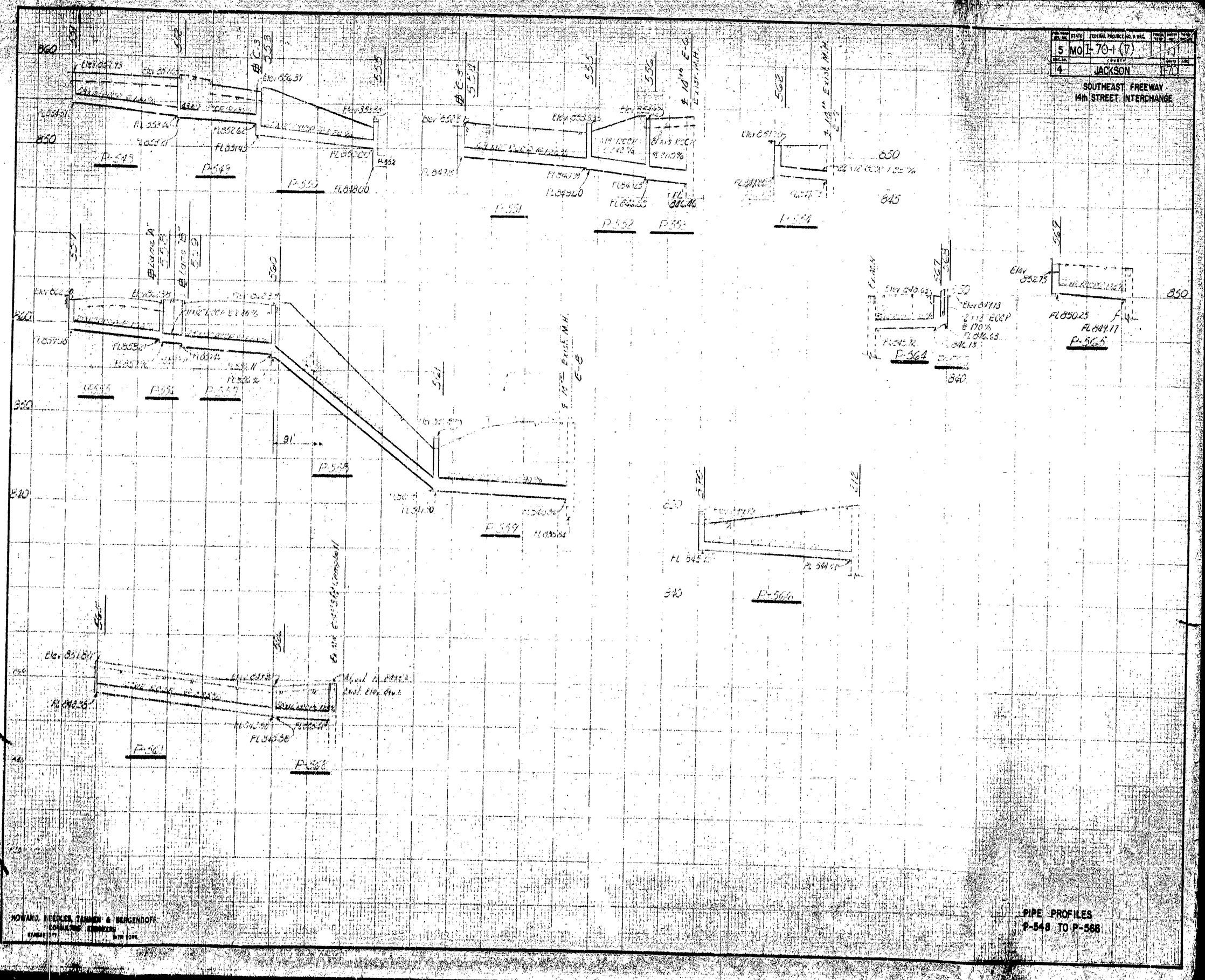
P-521 P-522 P-523 P-525 P-526 P-527 P-528 P-530 P-531 P-532 P-534 P-535 P-536 P-537 P-538 P-539 P-540 P-541 P-542 P-543 P-544 P-545 P-546 P-547

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

PIPE PROFILES
P-521 TO P-547

STATE	FEDERAL PROJECT NO. & SYS.	SHEET NO.	TOTAL SHEETS
5 MO	I-70-1 (7)	11	
4	JACKSON	I-70	

SOUTHEAST FREEWAY
14th STREET INTERCHANGE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FL 128.63
FL 127.13
FL 125.63
FL 124.13
FL 122.63
FL 121.13
FL 119.63
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FL 88.13
FL 86.63
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FL 83.63
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FL 31.13
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FL 22.13
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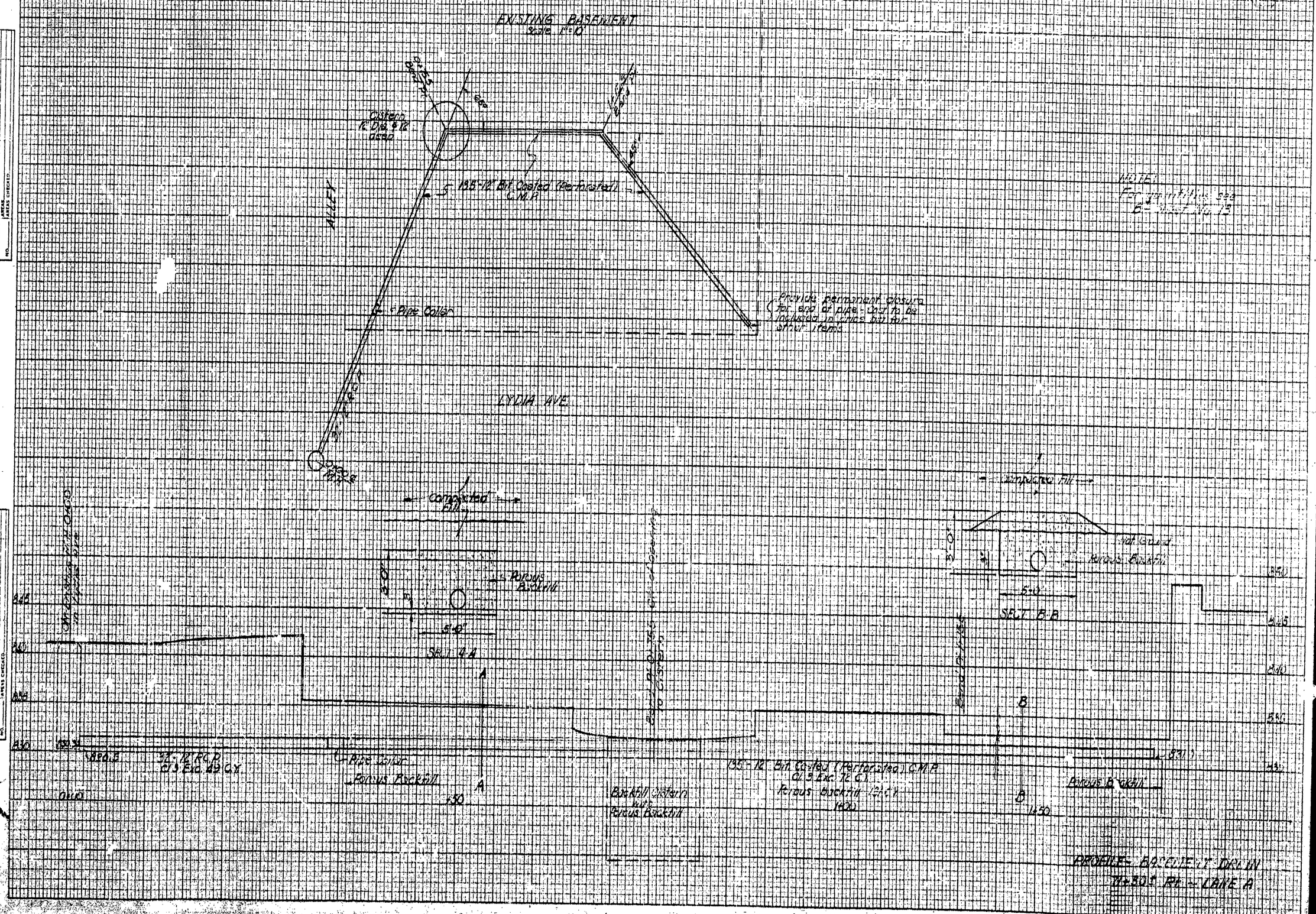
FL 19.13
FL 17.63
FL 16.13
FL 14.63
FL 13.13
FL 11.63
FL 10.13
FL 8.63
FL 7.13
FL 5.63
FL 4.13
FL 2.63
FL 1.13
FL 0.63
FL 0.13
FL -1.37
FL -2.87
FL -4.37
FL -5.87
FL -7.37
FL -8.87
FL -10.37
FL -11.87
FL -13.37
FL -14.87
FL -16.37
FL -17.87
FL -19.37
FL -20.87
FL -22.37
FL -23.87
FL -25.37
FL -26.87
FL -28.37
FL -29.87
FL

FED. ROAD DIV. No.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET No.
5	MO.	I-70-1 (7)		
DIST. No.	COUNTY		ROUTE	SEC.
4	JACKSON		I-70	

14th St. Interchange

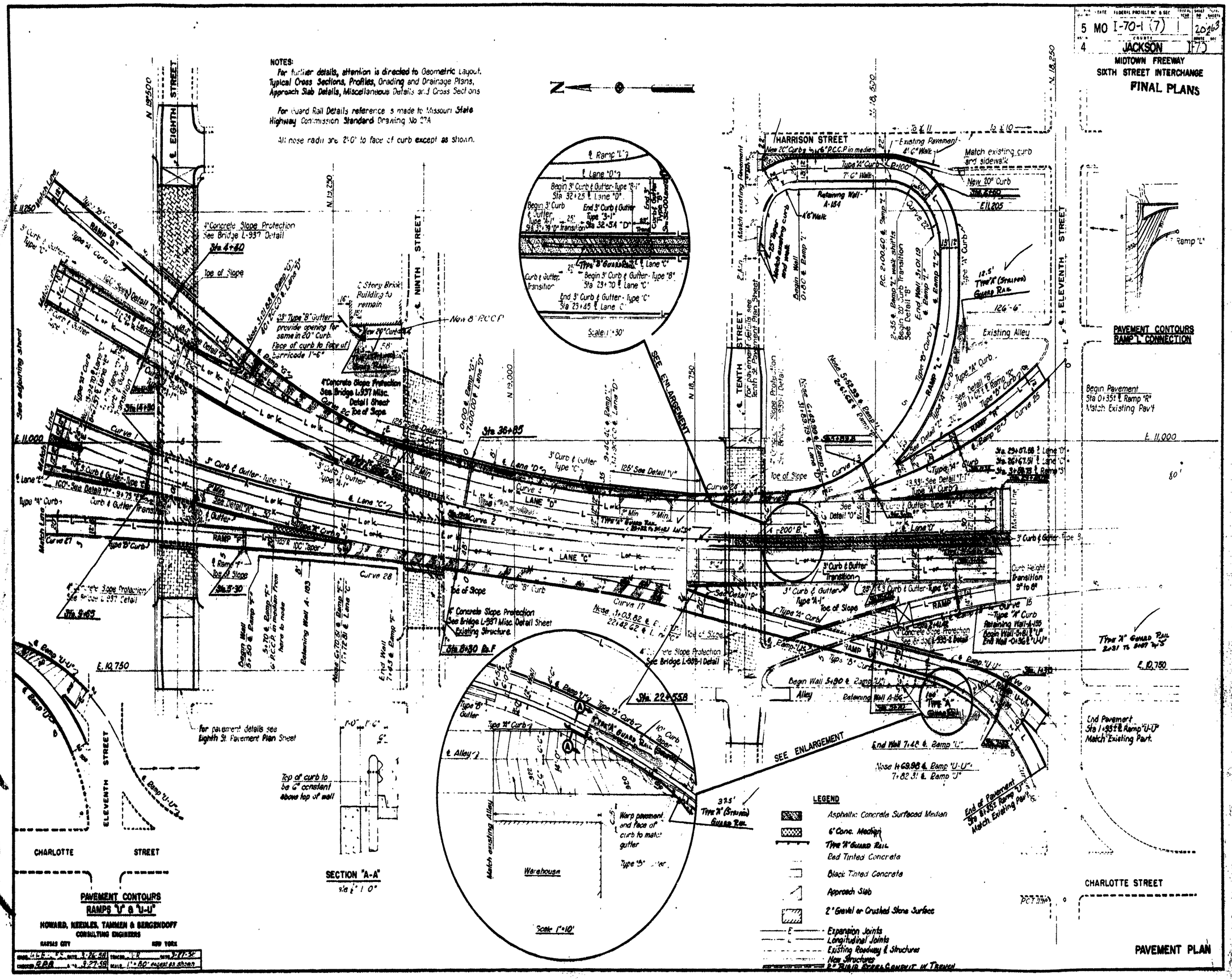


NOTE:
For quantities see B-Sheet No. 13

PROFILE - BASEMENT DRAIN
11+30± Rt. - LANE A

5 MO I-70-1-(7) 19
4 JACKSON I-70
MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE
℄ INDEPENDENCE AVE.
FINAL PLANS

EXISTING LANE "B" PASEO PROJECT
EXISTING LANE "A"
EXISTING LANE "E"
EXISTING LANE "D"
EXISTING RAMP "C"
EXISTING RAMP
EXISTING SERVICE ST
SIXTH STREET
℄ RELOCATED ADMIRAL BLVD.
℄ SERVICE STREET
TROOST AVE
RAMP "F"
RAMP "G"
Existing Barricade
Existing Retaining Wall
Existing Curb
Transition curb height to match existing curb
Match existing curb line
Construction Joint
2' Min.
3' Curb & Gutter - Type "A-1"
3' Curb & Gutter Transition
Existing Concrete Overpass
Existing 6' Asphaltic Concrete Shoulder
Existing Lane "B" Paseo Project
Remove existing pavement See Note "A"
Match Line Sta 2+00 Lane "C"
Begin Wall "W" Sta 0+20 Lane "C" Match Exist. Curb & Gutter
End Pavement at Existing Approach Slab - 0+93 Lane "E"
Begin Pavement Sta. 2+50 Lane "E" Match Existing Pavt
Existing Approach slab to be modified See Approach Slab Details.
4" Concrete Slope Protection See Bridge L-935 Misc. Detail Sheet
Toe of Slope
Nose 8+03.16 Lane "E"
Nose 4+19.50 Lane "D"
Nose 4+44.43 Lane "F"
Nose 2+34.09 Lane "F"
Sta 4+00 Lane "D" End Type "A" Guard Rail
End Pavement Sta 5+00 Lane "D" Match Existing Pavt.
End Pavement Sta 5+00 Match Existing Pavt & Curb
Sta 4+97
Sta 4+80
Sta 4+40
Sta 3+40
Sta 2+50
Sta 48+30
4+00 Serv Rd. End Type "A" Guard rail
Type "A" Guard Rail Sta 48+30 to 49+94 Lt&D
Type "A" Guard Rail Sta 0+48 to 2+19 Rt&C
Type "A" Guard Rail Sta 0+48 to 2+19 Lt&C
Type "A" Guard Rail Sta 0+48 to 2+19 Lt&E
Type "A" Guard Rail Sta 0+48 to 2+19 Rt&E
Type "A" Guard Rail Sta 0+48 to 2+19 Lt&F
Type "A" Guard Rail Sta 0+48 to 2+19 Rt&F
Type "A" Guard Rail Sta 0+48 to 2+19 Lt&G
Type "A" Guard Rail Sta 0+48 to 2+19 Rt&G
Type "A" Guard Rail Sta 0+48 to 2+19 Lt&D
Type "A" Guard Rail Sta 0+48 to 2+19 Rt&D
Type "A" (Striped) Guard Rail



5 MO I-70-1 (7) 20263
4 JACKSON I-70
MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE
FINAL PLANS
NOTES:
For further details, attention is directed to Geometric Layout, Typical Cross Sections, Profiles, Grading and Drainage Plans, Approach Slab Details, Miscellaneous Details and Cross Sections
For Guard Rail Details reference is made to Missouri State Highway Commission Standard Drawing No 27A
All nose radii are 2'-0" to face of curb except as shown.
EIGHTH STREET
NINTH STREET
TENTH STREET
ELEVENTH STREET
HARRISON STREET
CHARLOTTE STREET
LANE "C"
LANE "D"
RAMP "P"
RAMP "L"
RAMP "R"
SEE ENLARGEMENT
PAVEMENT CONTOURS RAMP "L" CONNECTION
PAVEMENT CONTOURS RAMPS "U" & "U-U"
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY
NEW YORK
SECTION "A-A"
Warehouse
Scale 1"=10'
LEGEND
Asphaltic Concrete Surfaced Median
6" Conc. Median
Type "A" Guard Rail
Red Tinted Concrete
Black Tinted Concrete
Approach Slab
2" Gravel or Crushed Stone Surface
Expansion Joints
Longitudinal Joints
Existing Roadway & Structures
New Structures
PAVEMENT PLAN

STATE	FEDERAL PROJECT NO. & SEC.	PROJ. YEAR	SHEET NO.	TOTAL SHEETS
5 MO	I-70-1 (7)		21	
DIST. NO.	COUNTY			
4	JACKSON	1-70		

SOUTHEAST FREEWAY
14TH STREET INTERCHANGE

FINAL PLANS

HARRISON STREET

11th STREET

12th STREET

13th STREET

CHARLOTTE STREET

BRIDGE NO. A-245

BRIDGE NO. A-244

RAMP "V"

RAMP "F"

LANE "D"

LANE "E"

LANE "K"

BASE LINE "Z"

BASE LINE "F"

BASE LINE "V"

BASE LINE "D"

BASE LINE "E"

BASE LINE "C"

BASE LINE "B"

BASE LINE "K"

BASE LINE "H"

Traverse Line

Limits of resurfacing

Match Line

Type "A" Curb

Type "A" Curb & Gutter

Type "B" Curb & Gutter

Type "A" Guard Rail

Type "A" (Striped) Guard Rail

100' Type "A" Guard Rail

8' Shoulder Type "B" Curb

6" Shoulder Type "B" Curb

Approach Slab "D"

Approach Slab "E"

Approach Slab "F"

Approach Slab "H"

Top of N.W. Curb to match Existing Sidewalk.

Reinforced Slope Protection

Detail "A"

Detail "B"

Detail "C"

Detail "F"

Detail "K1"

Detail "TT"

Detail "V"

Detail "12"

Detail "15"

Detail "16"

Detail "17"

Detail "18"

Detail "19"

Detail "20"

Detail "21"

Detail "22"

Detail "23"

Detail "24"

Detail "25"

Detail "26"

Detail "27"

Detail "28"

Detail "29"

Detail "30"

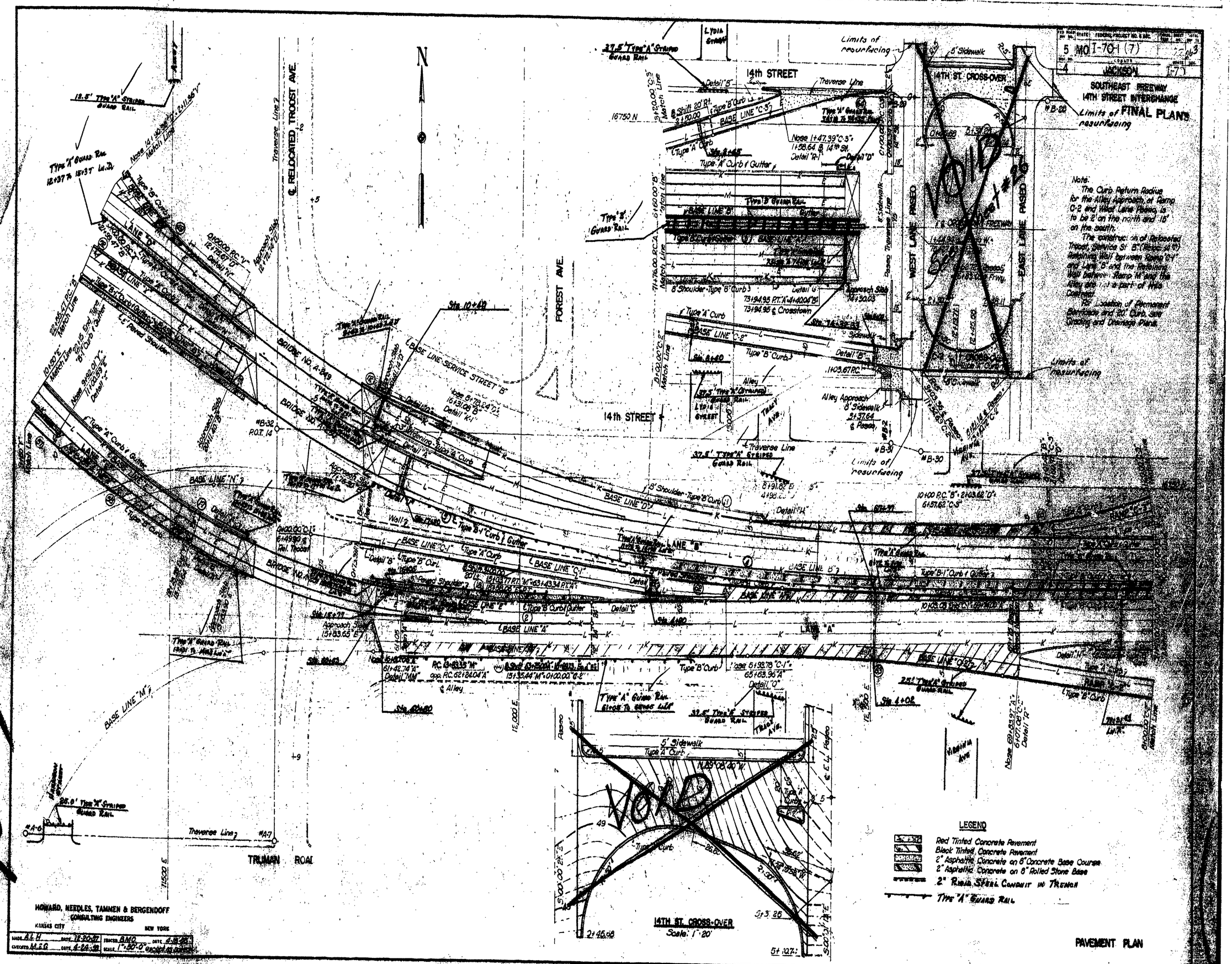
Detail "31"

Detail "32"

Detail "33"

Detail "34"

Detail



5 MO I-70-1 (7)
4 JACKSON I-70
SOUTHEAST FREEWAY
14TH STREET INTERCHANGE
FINAL PLANS
Limits of resurfacing
14th STREET
14TH ST. CROSS-OVER
WEST LANE PASEO
EAST LANE PASEO
FOREST AVE.
℄ RELOCATED TROOST AVE.
TRUMAN ROAD
BRIDGE NO. A-249
BASE LINE SERVICE STREET "B"
LANE "A"
LANE "B"
LANE "C-1"
LANE "D"
LANE "E"
BASE LINE "A"
BASE LINE "B"
BASE LINE "C-2"
BASE LINE "D"
BASE LINE "E"
BASE LINE "M"
BASE LINE "N"
Note:
The Curb Return Radius for the Alley Approach at Ramp C-2 and West Lane Paseo, is to be 2' on the north and 15' on the south.
The construction of Relocated Troost, Service St. "B" (Reloc. 14th) Retaining Wall between Ramp "C-1" and Lane "B" and the Retaining Wall between Ramp "M" and the Alley are not a part of this Contract.
For Location of Permanent Barricade and 20" Curb, see Grading and Drainage Plans.
VOID
LEGEND
Red Tinted Concrete Pavement
Black Tinted Concrete Pavement
2" Asphaltic Concrete on 8" Concrete Base Course
2" Asphaltic Concrete on 8" Rolled Stone Base
2" Rigid Steel Conduit in Trench
Type "A" Guard Rail
14TH ST. CROSS-OVER
Scale: 1"=20'
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY
NEW YORK
MADE A.L.H. DATE 12-20-57
CHECKED M.E.G. DATE 4-24-58
TRACED B.M.O. DATE 4-18-58
SCALE 1"=50'-0" except as noted
PAVEMENT PLAN

STATE FEDERAL PROJ. | SHEET NO. | SHEETS
5 MO. I-70-1(7) 23
DIST. | COUNTY | ROUTE | SEC.
4 JACKSON I-70

MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE
FINAL PLANS

CURVE DATA

CURVE #	Δ	D	R	T	L
12	3°-52'-26"	4°-00'-00"	1,432.39'	48.44'	96.85'
16	6°-04'-06"	4°-00'-00"	1,432.39'	75.92'	151.71'
39	70°-19'-49"	—	70.00'	49.32'	85.92'
39	64°-07'-07"	—	85.00'	53.24'	95.16'
40	83°-47'-18"	—	50.00'	44.85'	73.12'

PAVEMENT CONTOURS
SIXTH STREET CONNECTION

PAVEMENT CONTOURS
INTERSECTION OF RELOCATED ADMIRAL BOULEVARD AND CHARLOTTE STREET

Traverse point 100 49 is a steel bolt embedded in concrete sidewalk at the S.W. corner of Sixth Street and Charlotte Street. Elevation 881.63

SIXTH STREET

RELOCATED ADMIRAL BOULEVARD

CHARLOTTE STREET

Match existing pavement, walks, & curbs

6" Integral Curb

2" Expansion Joint

Approach Slab

Construction Joint

2" Expansion Joints

6" Integral Curb Ward curb to match 8" curb

Leave a 2'-0" x 2'-0" square unpaved from back of curb. West side of square at P.T. of curb return as shown

Leave a 2'-0" x 2'-0" square unpaved from back of curb West side of square at Sta 41+16 ℄ Rel. Admiral Blvd. (for lighting installation by others)

See Detail "Y" for step modification

For Ramp "P" details see Paving Plan Sheets

BUILDING

PLAN
Scale: 1" = 30'-0"

NOTE:
Stage Constr. – Charlotte St. to Bridge

Stage I - Crosshatched Area
1. Remove existing pavement curbs & sidewalks
2. Construct drainage pipes & boxes.
3. Construct new concrete base course & entrances to building

Stage II - After concrete placed under stage I can be opened to traffic.
1. Complete removals on Admiral Blvd.
2. Complete construction of drainage & base course.
3. Place asphaltic concrete over all of new base course.

For Service Street details See Paving Plan Sheets

SERVICE STREET

6" Integral Curb

℄ Bridge Ramp "P"

Approach Slab

P.C. 91+67.40 ℄ Rel. Adm. Blvd.
N. 19,961.32 E. 11,459.78

9142.00 ℄ Rel. Admiral Blvd.

Construction Joint

½" Expansion Joint (typical)

Transition curb height from 8" to 6" in 10'
Leave a 2'-0" x 2'-0" square unpaved from back of curb and immediately west of this point as shown by square •

Note:
For Ramp "6" and Alley details see Paving Plan Sheets

Note:
For longitudinal joints (L) not shown see Half Section of Relocated Admiral Boulevard

6" Integral Curb

6" Expansion Joints

4'-6" Walk

P.T. 111+19.11 ℄ Rel. Adm. Blvd.
N. 19,968.68 E. 11,611.24
S. 89°-46'-41" E.

TYCO ST

Building
Existing walk 4'

Existing step 3' / 3' / 3' / 3' / 2'

Edge of treads

existing walk

6'-0"

℄ of steps

9'-6"

Edge of proposed walk

5 @ 1'-0" Proposed step treads

PLAN

Proposed step risers 6"

El 89.41

Existing 6" step risers

El 89.10

See Missouri State Highway Commission Std. Drawing 26-A for step details

6" Min. walk as required

Note:
Rise of bottom step may exceed 6" as required and will vary across width of step due to grade of sidewalk

CENTERLINE PROFILE

DETAIL "Y"
STEP MODIFICATION

24" Steel Pipe

℄ Spindle High. 889

Elev 94.30

No. 3 C.B. Curb

EIGHTH STREET

TRAVERSE POINT A 1
LOCATION TIES

Existing Ground

+6.00%

+1.88%

-5.92%

200' V.C.

180' V.C.

P.V.C. 6+00.00
Elev 907.66

P.V.T. 8+00.00
Elev 906.46

P.V.C. 0+20.00
Elev 894.72

P.V.T. 1+80.00
Elev 897.06

P.V.C. 3+10.00
Elev 910.54

Datum Line = Elev 880.00

PROFILE
Scale: 1" = 50' Hor., 1" = 10' Vert

NOTE
For quantities see Sheet Nos. 8, 9, 10, 11 & 12

Note:
Where shown on plan, alley and driveways shall be repaved with 8" Plain P.C.C. pavement without a bituminous surface course or granular base course.
Sixth St. connection shall be removed as shown above.

6'-0" | 30'-0" Symetrical about ℄

5'-0" | 10'-0" | 10'-0" | 10'-0"

6"

1"

4" Conc. Walk

1 on 2 Max. Slope Varies

1 on 4 Max.

6" Plain P.C.C. Pavement

2" Bituminous Surface Course

Longitudinal Joint with Dowels

Profile Grade

4" per ft.

4" per ft.

R=3'

12"

1" Premolded Bituminous Expansion Joint

4" Compacted Granular Base Course

6" Integral Curb (Type "K")

HALF - SECTION
RELOCATED ADMIRAL BOULEVARD

Notes:
For approach slabs, plain concrete slabs, and asphaltic concrete see Missouri State Highway Commission Std. Drawings.
Approach slabs will have a 2" asphaltic concrete surface course.
For further details attention is directed to Geometric Layout, Grading and Drainage Plans, Miscellaneous Details and Cross Sections.

8" P.C.C. Base Course with 2" Asphaltic Concrete Surface Course.

PLAN AND PROFILE
RELOCATED ADMIRAL BOULEVARD

HOWARD NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

DESIGNED HWB DATE 8-4-57 TRACED VVR DATE 9-27-58
CHECKED DATE
REVISED DATE

30

STATE FEDERAL PROJECT No. 8 Sec.

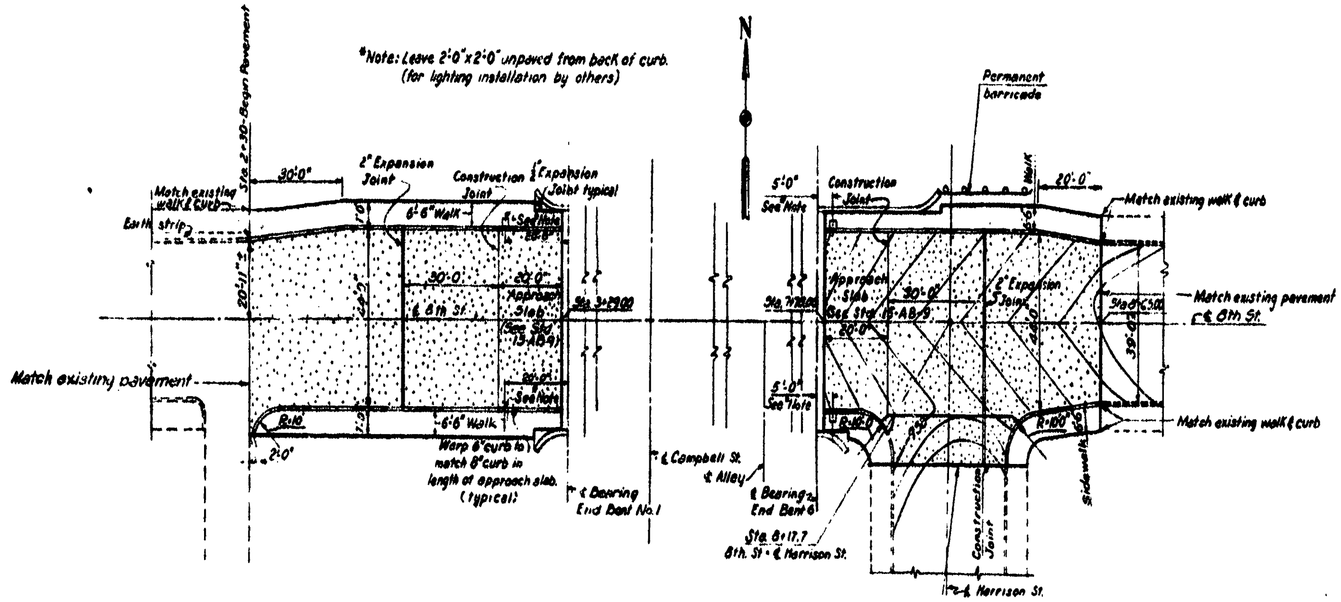
5 MO. I-70-1(7)

4 JACKSON I-70

MIDTOWN FREEWAY

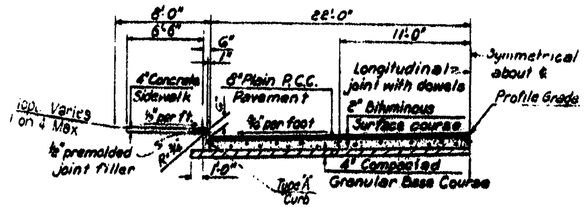
SIXTH STREET INTERCHANGE

FINAL PLANS

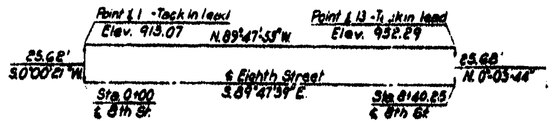


PLAN

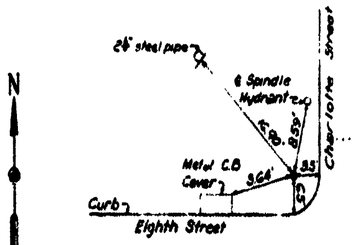
Scale: 1"=20'-0"



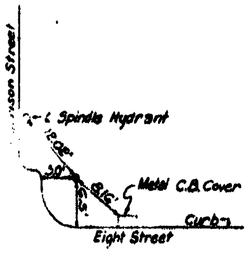
SECTION THRU 8TH STREET



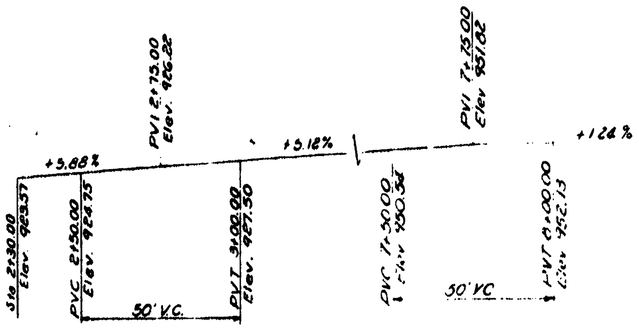
LOCATION OF 8TH STREET CENTERLINE



POINT ℄ 1



POINT ℄ 13



PROFILE

Note:
For further details, attention is directed to Geometric Layout, Grading and Drainage Plans, Miscellaneous Details and Cross Sections.
The approach slabs will have a 2" asphaltic concrete Surface Course

8" P.C.C. Base Course with 2" Asphaltic Concrete Surface Course.

NOTE:
For quantities see B-Sheet Nos. 17, 18, 19, 20 & 23

PLAN AND PROFILE
EIGHTH STREET

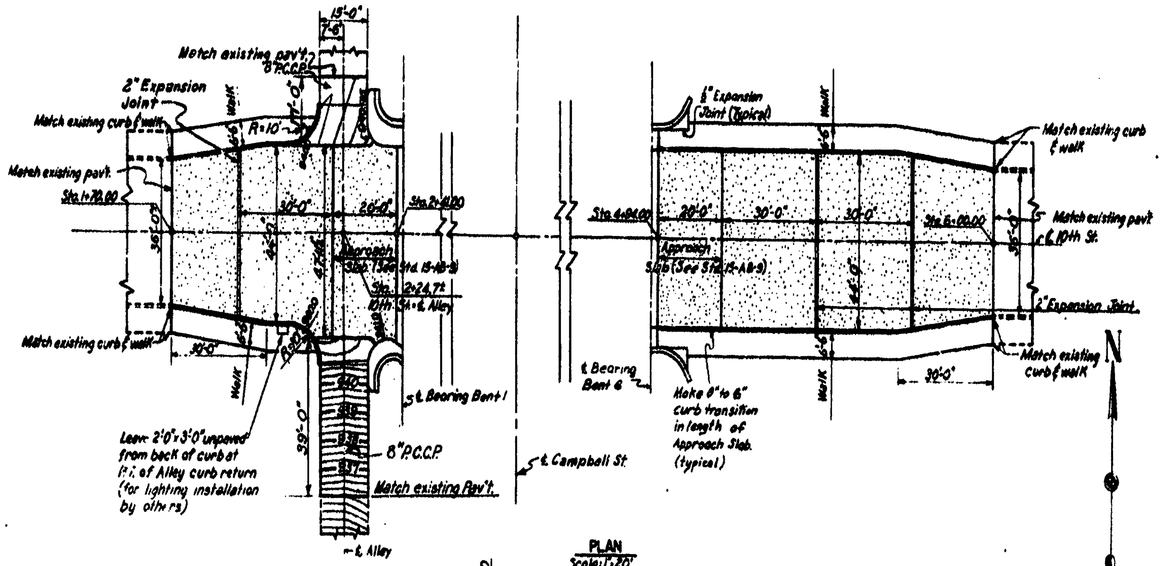
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

MADE JEP-BAR	DATE	TRACED	DATE
CHECKED H.H.B.	DATE	SCALE As shown	

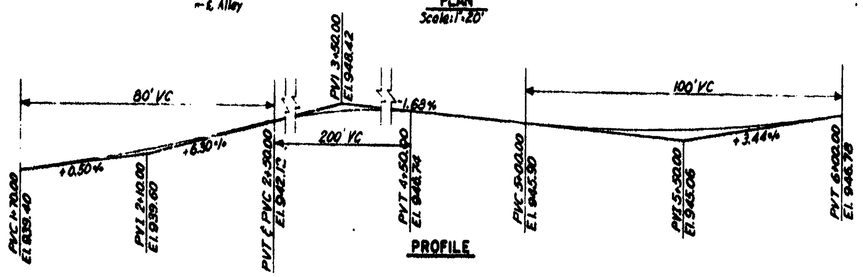
	STATE	FEDERAL PROJECT No. & SEC.		
5	MO.	I-70-1 (7)		25
4		JACKSON		I-70

MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE

FINAL PLANS



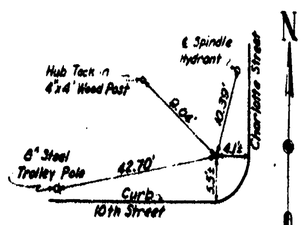
PLAN
Scale: 1"=20'



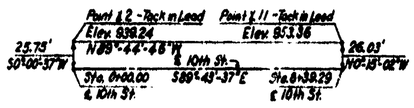
PROFILE

Note:
For further details attention is directed to Geometric Layout, Grading and Drainage Plans, Miscellaneous Details and Cross Sections.
The approach slabs will have a 2" asphaltic concrete surface course.

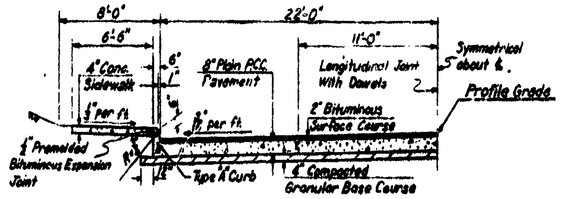
▨ 7" P.C.C. Base Course with 2" Asphaltic Concrete Surface Course



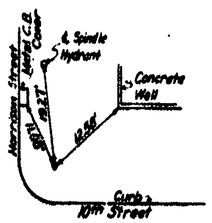
POINT ℄ 2



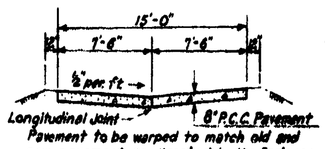
LOCATION OF CENTERLINE OF 10TH STREET



SECTION THRU 10TH STREET



POINT ℄ 11



Pavement to be warped to match old and new pavement as directed by the Engineer.

SECTION THRU ALLEY

NOTE:
For quantities See B-Sheet No.s 8, 9, 10, 11 & 14

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK

MADE B.G.M.	DATE 5-4-57	TRACED	DATE
CHECKED HNB	DATE 5-4-57	SCALE As noted except as noted	

PLAN AND PROFILE
TENTH STREET

5		FEDERAL PROJECT No. & SEC. I-70-1(17)2 I-70-1(123)3	26
4	JACKSON	I-70	

FINAL PLANS.

P-564 (Pavt. Replacement)

P-565 (Pavt. Replacement)

PASEO (West)

PASEO (East)

Limits of Resurfacing

0+21 ℄ Paseo (West) = 9+75.13 "C-4"

(567)

(569)

New 5' Sidewalk

Reverse Curve 120' R. Δ 3°-02'-2"

Limits of Resurfacing

14th St.

RAMP C-3

0+00 P.C. Ramp "C-3"

Type A Curb

C-1 CROSSOVER

122.1'-20' Conc. Curb

14th St.

RAMP C-4

8+5.86 "C-4" = 5+17.15 ℄ Paseo (East) N 16783.57 E 13409.50

8' Sidewalk

8+0.42 ℄ Crossover

5+76.89 Paseo (East)

Nose 5+96.89 R=2'

6" Median

8' Sidewalk

Type A Curb

Pavt. Replacement

Nose 2+13.37 R=2

2+33.37 Paseo (West)

11+54.69 "C-2" = 3+33.36 ℄ Paseo (West) N 16479.53 E 13253.56

(542)

(545)

C-2 CROSSOVER

RAMP C-2

RAMP C-5

11+03.67 P.C.

ALLEY

Alley Approach

8' Sidewalk

13+10.72 "C-2" = 0+00 "C-5" = 5+21.14 ℄ Paseo (East) N 16479.58 E 13409.60

0+37.07 "C-5"

8+4.12 ℄ Paseo (East)

8' Sidewalk

Limits of Resurfacing

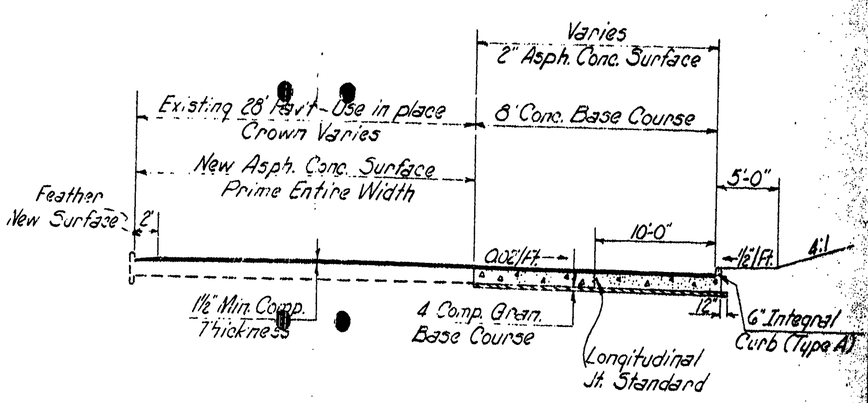
Scale 1" = 30'

P-545 (Pavt. Replacement)

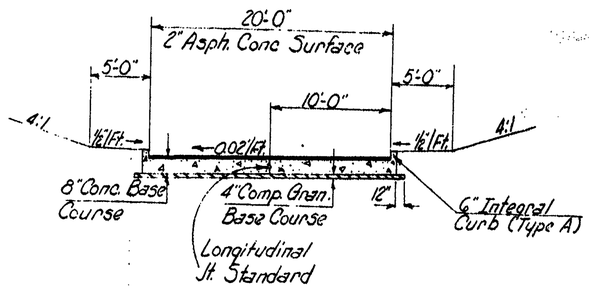
①	②
P.I. 33' Lt. Sta. 0+60 Paseo (West)	P.I. 33' Rt. Sta. 7+20 Paseo (East)
Δ = 10°-30'	Δ = 10°-12'
R = 400.00'	R = 400.00'
T = 36.75'	T = 35.70'

DROP INLET LOCATION

Inlet 545	Sta. 7+85	Paseo (East)
" 547	" 12+05	C-2 Crossover
" 567	" 0-40	Paseo (West)
" 569	" 4+78	Paseo (East)



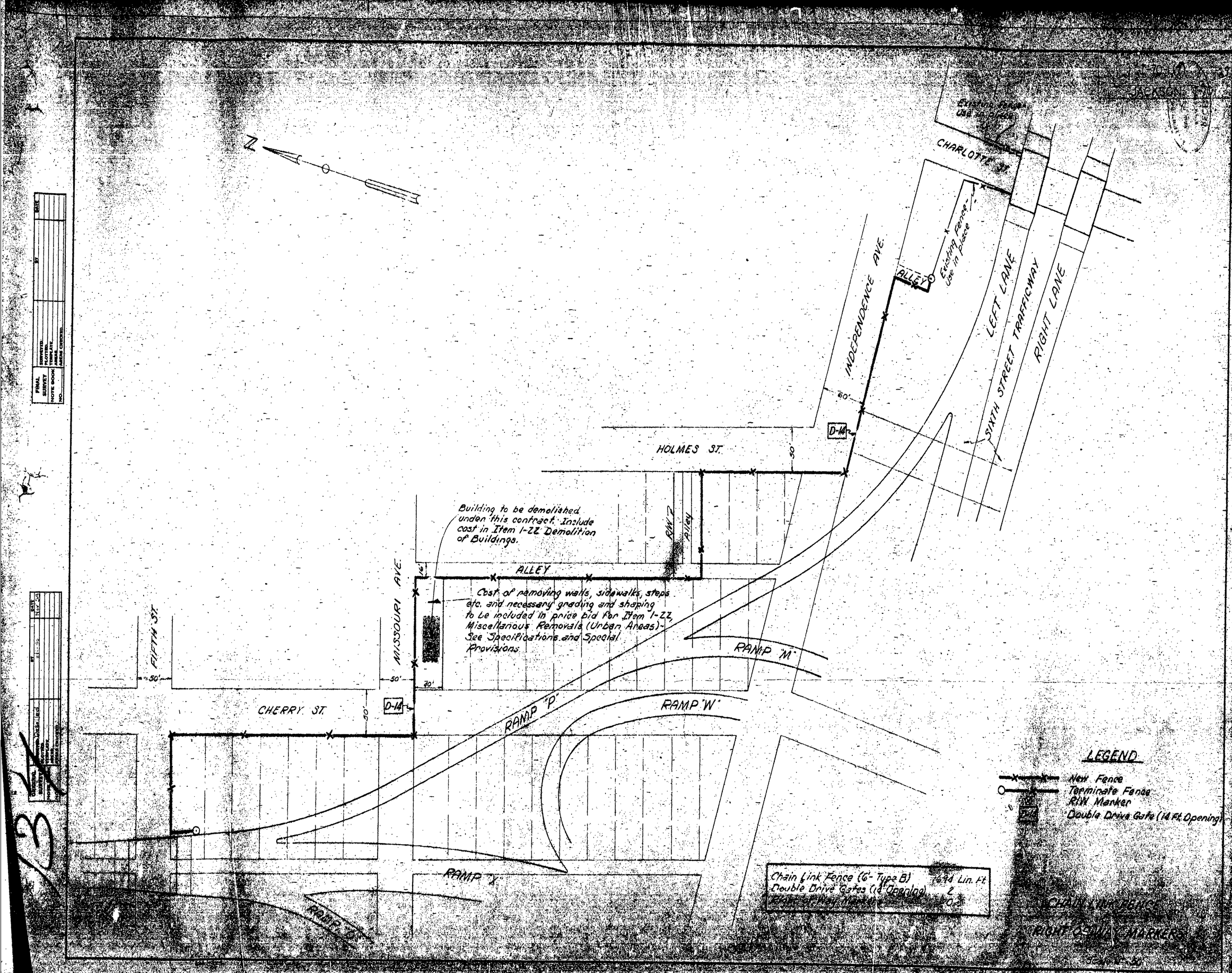
PASEO BLVD.



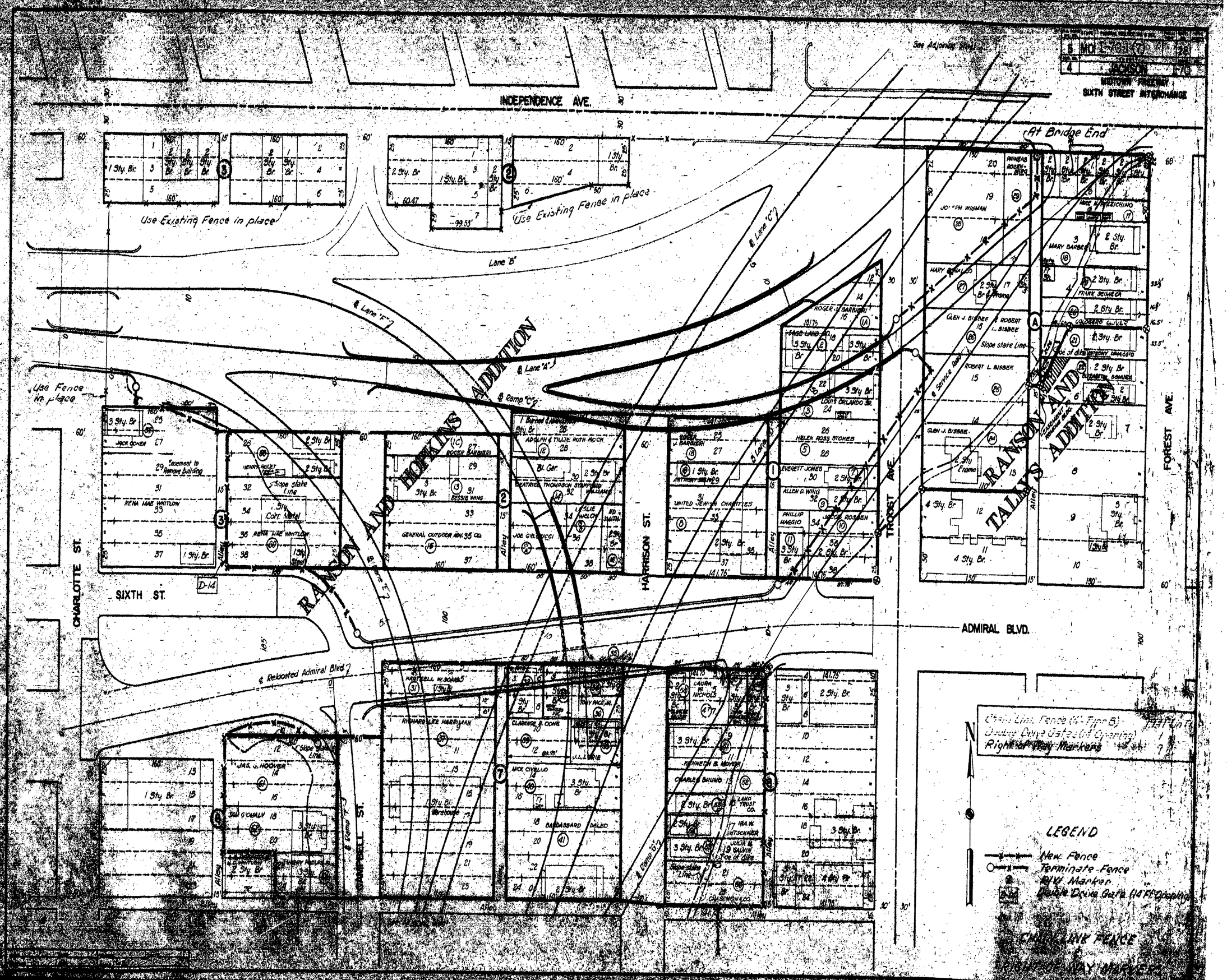
CROSSOVER

TYPICAL SECTIONS

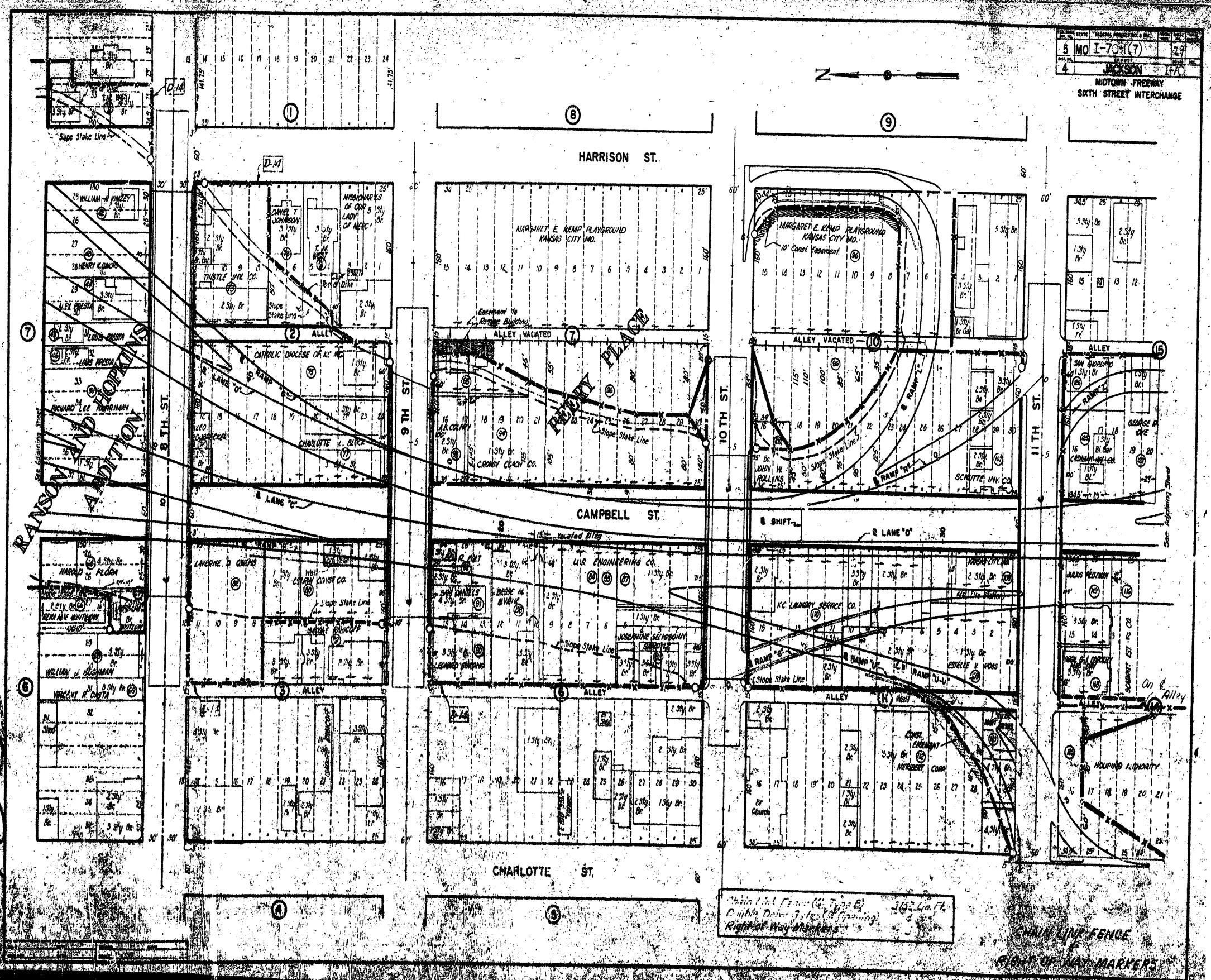
PAVEMENT REVISION I
PASEO BLVD. INTERCHANGE



JACKSON
Existing Fence Use in place
CHARLOTTE ST.
Existing Fence Use in place
ALLEY
INDEPENDENCE AVE.
LEFT LANE
SIXTH STREET TRAFFICWAY
RIGHT LANE
60'
D-14
HOLMES ST.
50'
Building to be demolished under this contract. Include cost in Item 1-22 Demolition of Buildings.
R/W
Alley
ALLEY
16'
MISSOURI AVE.
Cost of removing walls, sidewalks, steps etc. and necessary grading and shaping to be included in price bid for Item 1-22, Miscellanous Removals (Urban Areas)- See Specifications and Special Provisions
FIFTH ST.
50'
50'
70'
RAMP "M"
CHERRY ST.
50'
D-14
RAMP "P"
RAMP "W"
RAMP "X"
RAMP "D"
LEGEND
New Fence
Terminate Fence
R/W Marker
Double Drive Gate (14 Ft. Opening)
Chain Link Fence (6'- Type B) 1694 Lin. Ft.
Double Drive Gates (14' Opening) 2
Right of Way Markers 0
CHAIN LINK FENCE
RIGHT OF WAY MARKERS
Scale 1" = 50'



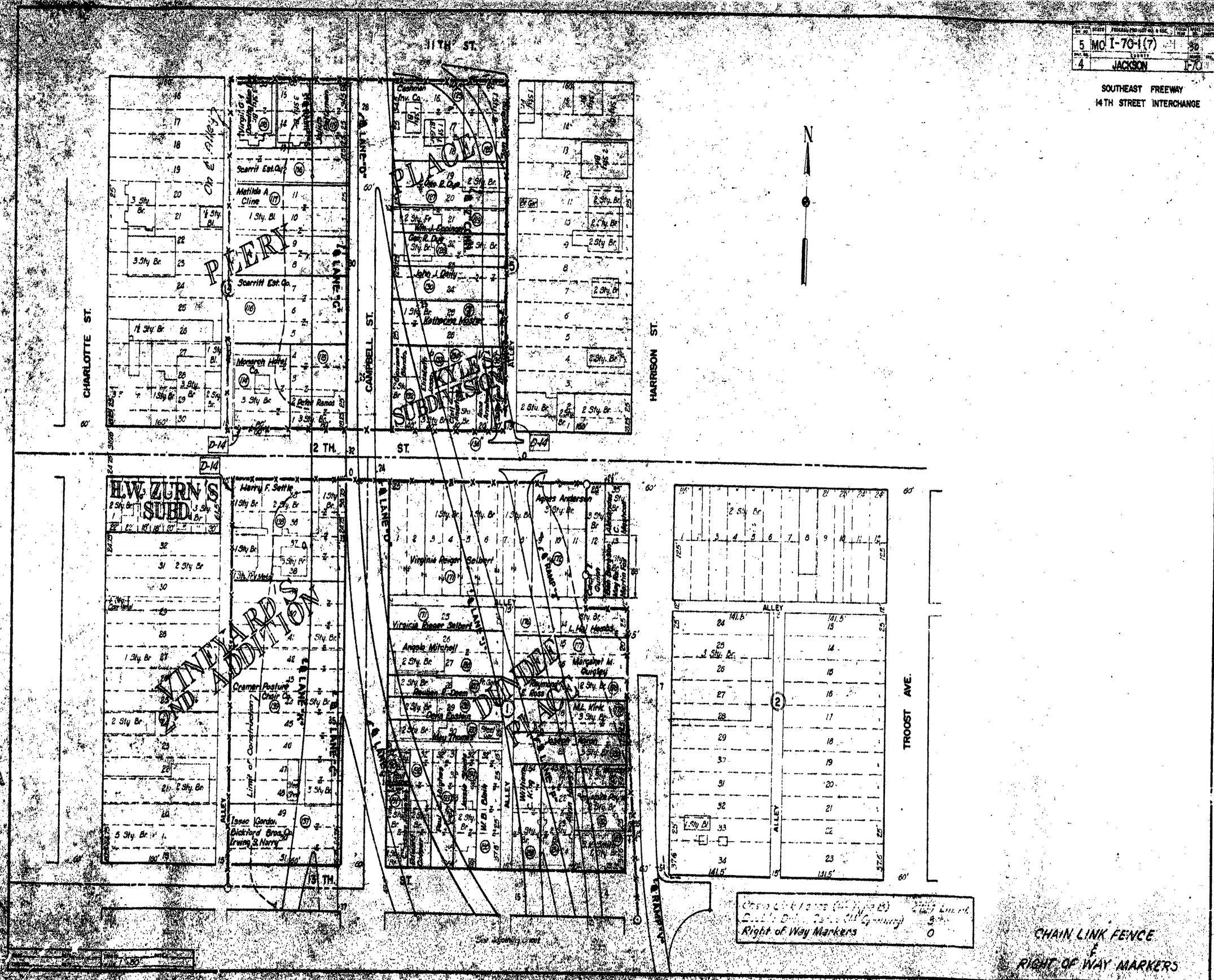
5 MO I-70-1(7) 28
4 JACKSON I-70
MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE
See Adjoining Sheet
INDEPENDENCE AVE.
At Bridge End
Use Existing Fence in place
Use Existing Fence in place
Lane "B"
Lane "C"
Lane "F"
Lane "A"
Ramp "C"
Use Fence in place
RANSON AND HOPKINS ADDITION
RANSON AND TALLY'S ADDITION
CHARLOTTE ST.
SIXTH ST.
HARRISON ST.
TROOST AVE.
FOREST AVE.
ADMIRAL BLVD.
Reloated Admiral Blvd.
CAMPBELL ST.
Alley
Chain Link Fence (14' Type B)
Double Drive Gates (14' Opening)
Right of Way Markers
LEGEND
New Fence
Terminate Fence
R/W Marker
Double Drive Gate (14 Ft. Opening)
CHAIN LINK FENCE
RIGHT OF WAY MARKERS



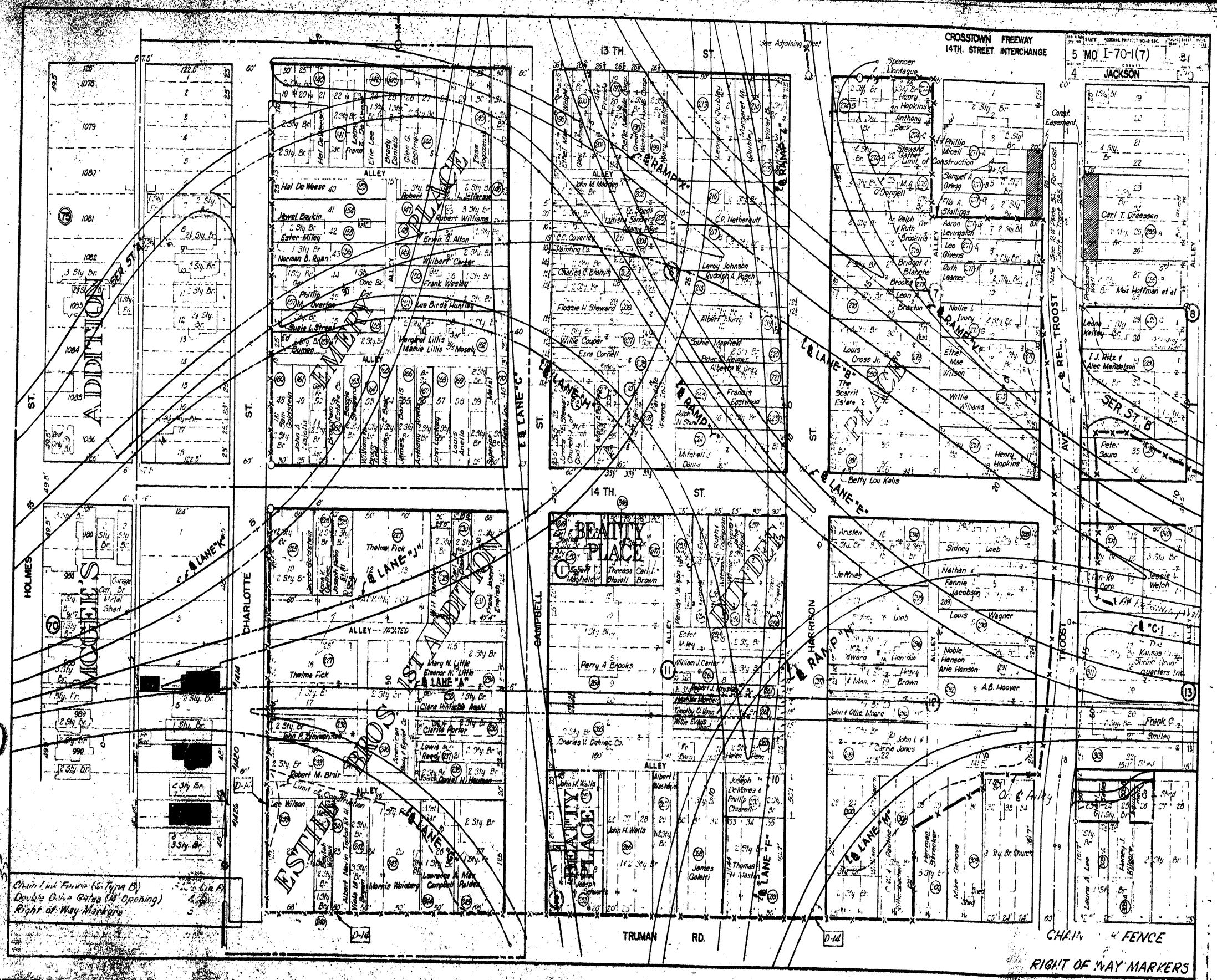
5 MO I-70-1(7)
4 JACKSON I-70
MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE
HARRISON ST.
CAMPBELL ST.
CHARLOTTE ST.
8 TH. ST.
9 TH ST.
10 TH ST.
11 TH ST.
RANSON AND HOPKINS ADDITION
PEERY PLACE
MARGARET E. KEMP PLAYGROUND KANSAS CITY MO.
ALLEY VACATED
ALLEY
CATHOLIC DIOCESE OF K.C. INC.
CHARLOTTE L. BLOCK
CROWN COACH CO.
SCHUTTE INV. CO.
U.S. ENGINEERING CO.
K.C. LAUNDRY SERVICE CO.
HOUSING AUTHORITY
Slope Stake Line
Vacated Alley
Easement to Remove Building
Chain Link Fence (6' Type B) 3152 Lin. Ft.
Double Drive Gates (6' Opening)
Right of Way Markers
CHAIN LINK FENCE
RIGHT OF WAY MARKERS

5	MO	I-70-1(7)	30
4	JACKSON		I-70

SOUTHEAST FREEWAY
14TH STREET INTERCHANGE

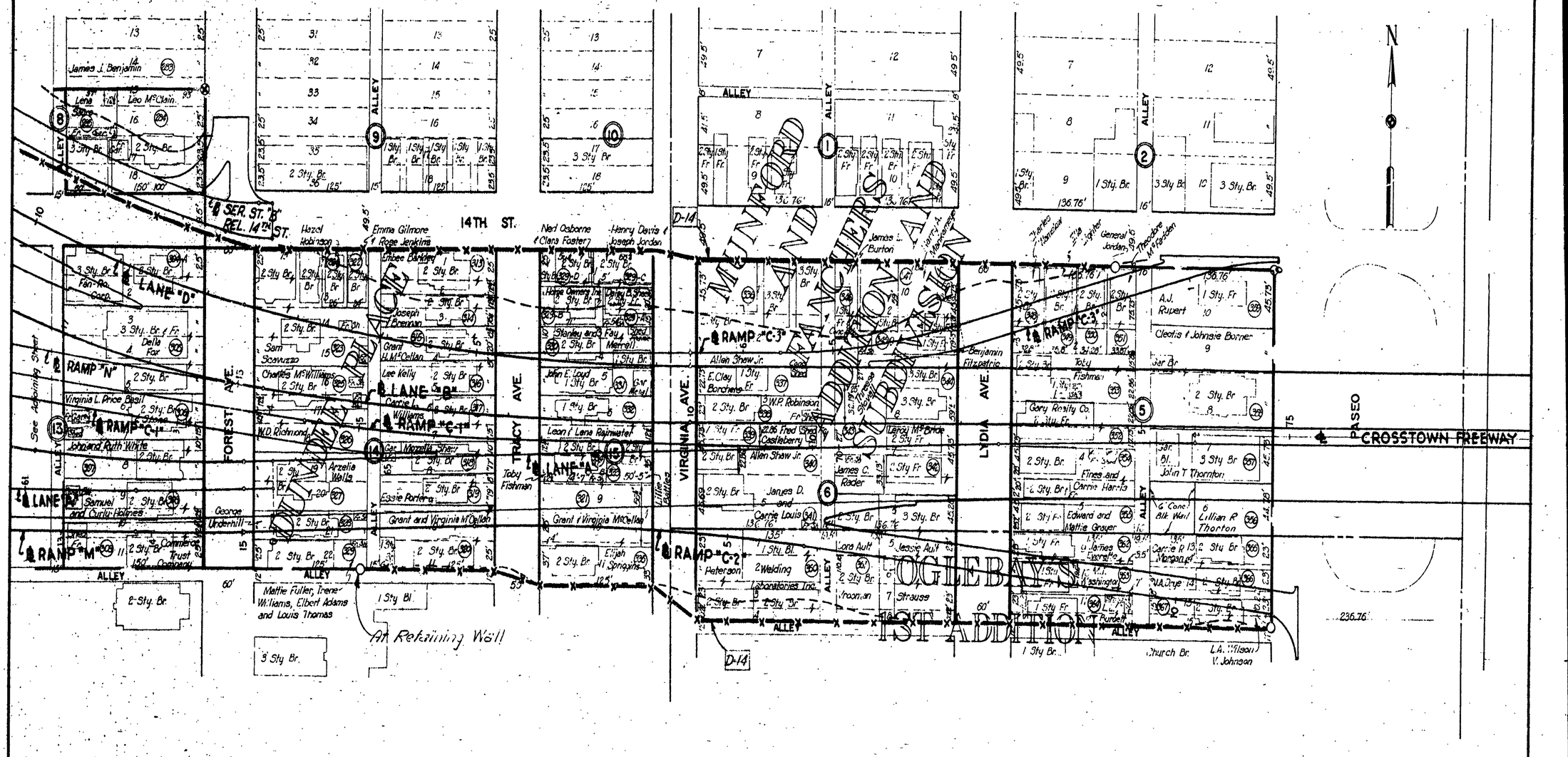


CHAIN LINK FENCE
&
RIGHT OF WAY MARKERS


CROSSTOWN FREEWAY
14TH. STREET INTERCHANGE
5 MO I-70-1(7)
4 JACKSON
13 TH. ST.
14 TH. ST.
TRUMAN RD.
HOLMES
CHARLOTTE
CAMPBELL
HARRISON
TROOST
AVE
REL. TROOST
SER. ST. "A"
SER. ST. "B"
ADDITION
EMERY PLACE
BEATTY PLACE
BEATTY PLACE
BONDEE
ESTILL BROS. 1ST ADDITION
MOGEE'S
℄ LANE "A"
℄ LANE "B"
℄ LANE "C"
℄ LANE "E"
℄ LANE "F"
℄ LANE "G"
℄ LANE "H"
℄ LANE "J"
℄ LANE "K"
℄ LANE "M"
℄ RAMP "X"
℄ RAMP "Y"
℄ RAMP "Z"
℄ RAMP "N"
℄ RAMP "V"
℄ "C-1"
Chain Link Fence (℄ Type B)
Double Drive Gates (18' Opening)
Right of Way Markers
CHAIN LINK FENCE
RIGHT OF WAY MARKERS

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	I-70-1(7)		32	
DIST. NO.	COUNTY			ROUTE NO.	
4	JACKSON			I-70	

CROSSTOWN FREEWAY
14TH STREET INTERCHANGE



Chain Link Fence (4' Type B)	2335 Lin. Ft.
Double Drive Gates (4' Opening)	2
Right of Way Markers	1

CHAIN LINK FENCE
&
RIGHT OF WAY MARKERS

139

5	INC.		
4	JACKSON		

MIDTOWN FREEWAY

SIXTH STREET INTERCHANGE

TRAVERSE DATA

Point	Bearing	Distance	Co-ordinates North	Co-ordinates East
KCC48			20,500.00	10,500.00
	Due S.	533.39		
KCC49	S 0°00'06" W.	472.62	19,966.81	10,500.00
℄ 1	S 0°00'21" W.	342.35	19,493.99	10,499.98
P.O.T. 9th	S 0°00'21" W.	442.63	19,151.64	10,499.95
℄ 2	S 0°00'37" W.	444.88	18,709.01	10,499.90
P.O.T. 11th	S 0°00'37" W.	439.88	18,264.12	10,499.82
℄ 3	S 89°38'46" E.	843.26	17,824.17	10,499.74
P.O.T. 12th	N 0°05'18" W.	442.84	17,818.84	11,342.98
℄ 10	N 0°05'02" W.	443.42	18,261.87	11,341.01
℄ 11	N 0°06'15" E.	445.69	18,705.29	11,339.07
℄ 12	N 0°03'44" E.	340.05	19,150.98	11,339.88
℄ 13	S 89°35'02" E.	316.15	19,491.03	11,340.25
℄ 14	N 0°43'36" W.	526.11	19,489.01	11,656.38
℄ 15	N 0°01'05" E.	326.85	20,014.08	11,649.73
℄ 16	N 0°01'05" E.	158.46	20,339.93	11,649.63
℄ 17	N 0°08'55" E.	474.73	20,498.41	11,649.88
℄ 18	N 0°08'55" W.	506.25	20,497.75	12,124.61
℄ 19			21,003.00	12,123.30
℄ 17	N 89°55'15" W.	1149.98	20,498.41	11,649.88
KCC48			20,500.00	10,500.00
℄ 13	N 89°47'53" W.	840.28	19,491.03	11,340.25
℄ 1			19,493.99	10,499.98
℄ 12	N 89°57'18" W.	839.93	19,150.98	11,339.88
P.O.T. 9th			19,151.64	10,499.95
℄ 11			18,705.29	11,339.07
℄ 2	N 89°44'46" W.	839.18	18,709.01	10,499.90
℄ 10			18,261.87	11,341.01
A-1	N 89°48'15" W.	381.67	18,262.55	10,959.34
P.O.T. 11th	N 89°48'15" W.	459.52	18,264.12	10,499.82

NOTES

Basis of coordinates is KCC 48 - N. 20,500 - E. 10,500. Basis of azimuths is KCC 49 to KCC 48 assumed north.

See other sheets for location ties of traverse points.*

Designations as P.C.1, P.I.4, or P.T.3 refer to curves as given in table below.*

CURVE DATA

Curve No.	Beginning of Curve Station	N	E	P.I. of Curve Station	N	E	End of Curve Station	N	E	Δ	D	R	T	L	Remarks	Curve No.
1	2+58.02 P.C.	20,540.11	11,625.63	10+48.63	19,999.90	11,048.30	17+80.65 P.C.C.	19,218.74	10,926.81	38°-03'-51"	2°-30'-00"	2,291.83	790.61	1,322.63	℄ Lane "C"	1
2	17+80.65 P.C.C.	19,218.74	10,926.81	21+03.64	18,899.59	10,877.18	24+25.09 P.T.	18,576.63	10,881.84	9°-40'-00"	1°-30'-00"	3,819.72	322.99	644.44	"	2
3	32+00.00 P.C.	18,577.38	10,933.84	33+13.48	18,690.85	10,932.20	34+26.91 P.C.C.	18,804.21	10,937.30	3°-24'-13"	1°-30'-00"	3,819.72	113.48	226.91	℄ Lane "D"	3
4	34+26.91 P.C.C.	18,804.21	10,937.30	37+53.87	19,130.84	10,952.00	40+72.34 P.T.	19,426.78	11,091.04	22°-35'-24"	3°-30'-00"	1,637.02	326.96	645.43	"	4
5	45+40.26 P.C.	19,850.27	11,290.02	47+21.95	20,014.72	11,367.29	49+01.72 P.T.	20,154.66	11,483.16	14°-27'-30"	4°-00'-00"	1,432.39	181.69	361.46	"	5
6	59+31.73 P.C.	20,948.02	12,140.07	61+53.51	21,118.84	12,281.51	63+73.30 P.C.C.	21,252.70	12,458.33	13°-14'-50"	3°-00'-00"	1,909.86	221.78	441.57	"	6
7	63+73.30 P.C.C.	21,252.70	12,458.33	63+88.20	21,261.69	12,470.20	64+03.10 P.T.	21,270.59	12,482.15	0°-27'-00"	1°-30'-37"	3,793.72	14.90	29.80	"	7
8	0+00.00 P.C.	19,613.73	11,167.29	7+22.62	20,327.75	11,474.59	9+21.80 P.T.	20,327.01	10,751.97	15°-13'-30"	12°-30'-00"	458.37	722.62	921.80	℄ Lane "F"	8
9	4+40.00 P.C.	20,250.88	10,939.12	6+50.78	20,237.52	11,149.48	8+58.56 P.C.C.	20,285.33	11,354.77	16°-44'-33"	4°-00'-00"	1,432.39	210.78	418.56	℄ Lane "A"	9
10	8+58.56 P.C.C.	20,285.33	11,354.77	11+00.04	20,340.10	11,589.96	13+24.38 P.T.	20,526.10	11,743.97	37°-15'-57"	8°-00'-00"	716.20	241.48	465.82	"	10
11	0+00.00 P.C.	20,238.57	10,664.87	5+28.41	20,205.08	11,092.22	7+84.95 P.T.	19,681.76	10,984.56	98°-57'-09"	12°-30'-00"	458.37	528.41	784.95	℄ Lane "E"	11
12	2+44.25 P.C.	19,884.83	10,740.76	2+92.69	19,892.98	10,788.51	3+41.10 P.T.	19,897.88	10,836.70	3°-52'-26"	4°-00'-00"	1,432.39	48.44	96.85	℄ Rel. Admiral Blvd.	12
13	0+00.00 P.C.	20,230.65	10,879.04	0+43.68	20,227.88	10,922.63	0+87.34 P.T.	20,222.46	10,965.98	3°-29'-37"	4°-00'-00"	1,432.39	43.68	87.34	℄ Ramp "C"	13
14	3+87.52 P.C.	20,185.22	11,261.84	6+35.90	20,154.40	11,510.30	8+61.15 P.T.	20,298.64	11,712.51	42°-37'-37"	9°-00'-00"	636.62	248.38	473.63	"	14
15	0+00.00 P.C.	18,682.11	10,741.90	2+97.37	18,400.15	10,836.39	5+90.00 P.T.	18,102.81	10,864.68	17°-42'-00"	3°-00'-00"	1,909.86	297.37	590.00	℄ Ramp "S"	15
16	9+67.40 P.C.	19,961.32	11,459.78	10+43.32	19,969.01	11,535.31	11+19.11 P.T.	19,968.68	11,611.24	6°-04'-06"	4°-00'-00"	1,432.39	75.92	151.71	℄ Rel. Admiral Blvd.	16
17	1+53.49 P.C.	19,913.69	10,840.66	2+20.00	18,847.60	10,833.19	2+86.40 P.T.	18,782.49	10,819.63	5°-18'-59"	4°-00'-00"	1,432.39	66.51	132.91	℄ Ramp "U"	17
18	6+46.81 P.C.	18,429.66	10,746.14	6+19.79	18,260.31	10,710.87	9+37.07 P.T.	18,260.72	10,537.89	78°-32'-13"	27°-00'-00"	212.21	172.98	290.26	"	18
19	0+10.00 P.C.	18,373.22	10,754.82	1+83.36	18,262.26	10,731.72	2+81.67 P.R.C.	18,210.03	10,631.11	50°-48'-00"	24°-00'-00"	238.73	113.36	211.67	℄ Ramp "U-U"	19
20	2+81.67 P.R.C.	18,210.03	10,631.11	3+73.27	18,167.83	10,549.81	4+46.29 P.T.	18,076.23	10,549.79	62°-33'-20"	38°-00'-00"	150.78	91.60	164.62	"	20
21	0+00.00 P.C.	18,657.76	11,233.33	0+49.55	18,657.53	11,282.88	0+78.08 P.T.	18,607.98	11,283.09	89°-28'-35"	—	50.00	49.55	78.08	℄ Ramp "L"	21
22	2+00.60 P.C.	18,485.46	11,283.63	2+76.11	18,409.95	11,283.96	3+18.92 P.T.	18,410.13	11,208.45	90°-23'-12"	—	75.00	75.51	118.32	"	22
23	3+64.20 P.C.	18,410.23	11,163.18	5+75.20	18,410.73	10,952.18	7+00.79 P.C.C.	18,621.55	10,943.52	87°-30'-44"	26°-00'-00"	220.37	211.00	336.59	"	23
24	7+00.79 P.C.C.	18,621.55	10,943.52	8+23.67	18,744.33	10,938.48	9+46.46 P.T.	18,867.18	10,941.34	3°-41'-06"	1°-30'-00"	3,819.72	122.88	245.67	"	24
25	0+00.00 P.C.	18,237.42	11,087.82	1+89.21	18,380.30	10,9[illegible]'18	3+67.83 P.T.	18,567.73	10,937.92	33°-06'-16"	9°-00'-00"	636.62	189.21	367.83	℄ Ramp "R"	25
26	0+00.00 P.C.C.	19,074.75	10,972.22	1+63.67	19,234.76	11,006.63	3+23.07 P.T.	19,3[illegible]9.24	11,099.92	22°-36'-54"	7°-00'-00"	818.51	163.67	323.07	℄ Ramp "G"	26
27	1+51.50 P.C.	19,751.61	10,895.71	2+32.00	19,671.52	10,903.87	3+12.12 P.T.	19,591.20	10,898.49	9°-38'-14"	6°-00'-00"	954.93	80.50	160.62	℄ Ramp "F"	27
28	6+53.12 P.C.	19,250.96	10,875.75	7+18.77	19,185.45	10,871.38	7+84.98 P.T.	19,120.24	10,864.00	2°-37'-31"	2°-00'-00"	2,864.79	65.65	131.26	"	28
36	5+71.21 P.C.	20,401.54	11,883.08	6+33.34	20,448.94	11,923.25	6+94.84 P.T.	20,485.02	11,973.83	14°-13'-02"	11°-30'-00"	498.22	62.13	123.63	℄ Service Street	36

LEGEND

Traverse Lines

Project Base Lines

Street Center Lines

Established Traverse Points! ●

All Other Points* ○

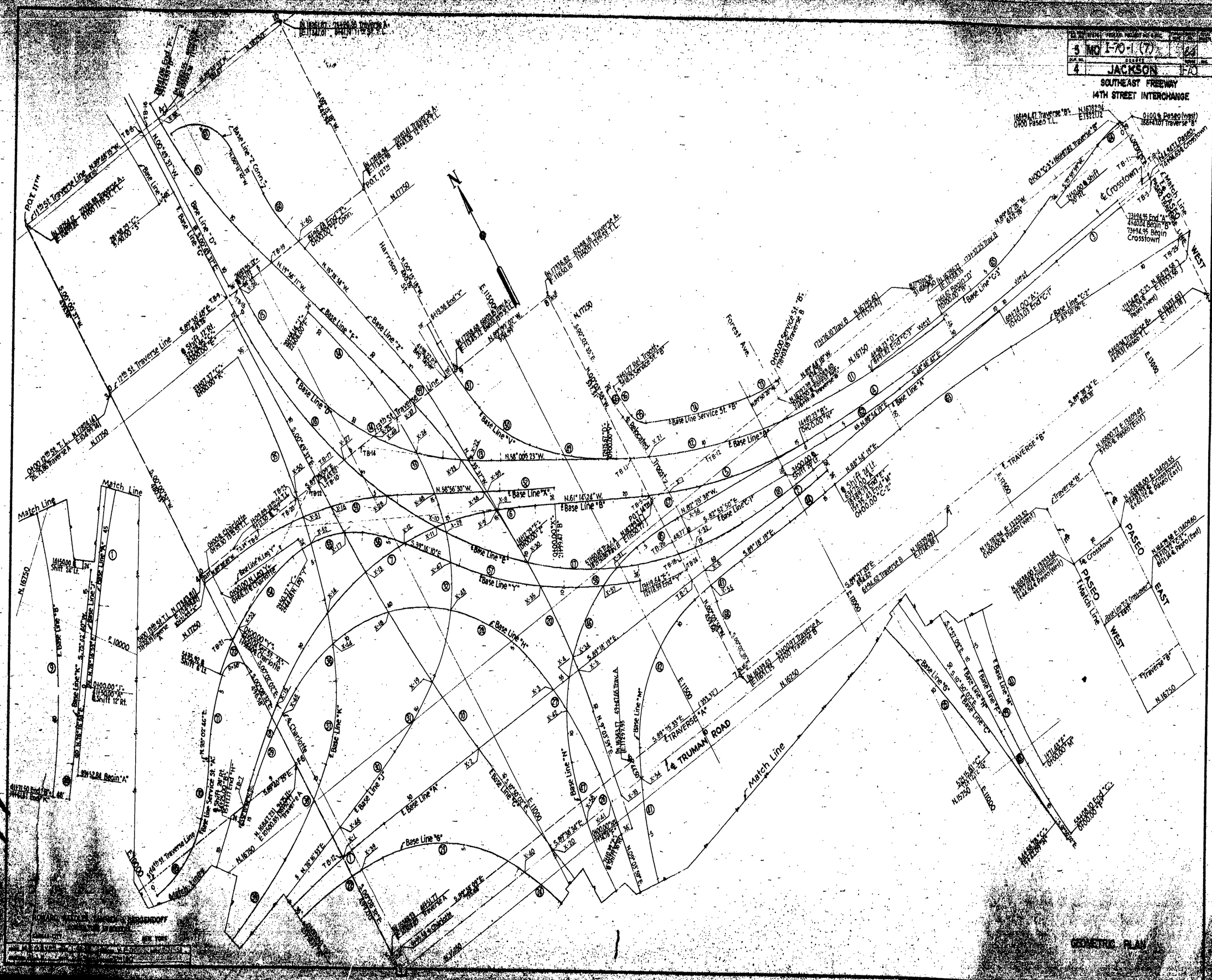
† * See Notes.

EXISTING PAVEMENT EDGE

MATCH LINE

GEOMETRIC PLAN

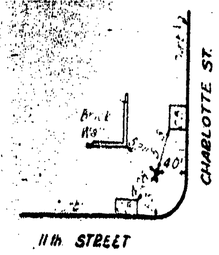
HOUSEL, KESSLER, LANGER & BERGENDOFF
CONSULTING ENGINEERS



5 MO I-70-1 (7)
4 JACKSON I-70
SOUTHEAST FREEWAY
14TH STREET INTERCHANGE
GEOMETRIC PLAN
Match Line
Harrison St.
Forest Ave.
TRUMAN ROAD
PASEO EAST
PASEO WEST
Crosstown

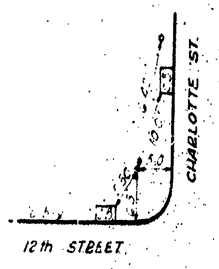
5	MO. I-70-1(7		36
4	JACKSON	I-70	

SOUTHEAST FREEWAY
14th. STREET INTERCHANGE
CROSSTOWN FREEWAY



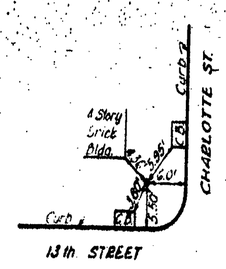
11th STREET

P.O.T. 11th
Elev. 906.69



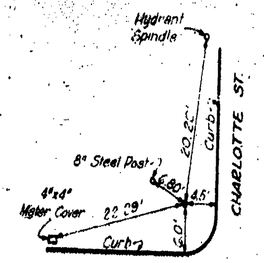
12th STREET

POINT A3
Elev. 885.41



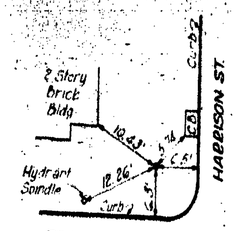
13th STREET

POINT A4
Elev 876.15



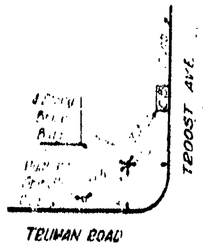
TRUMAN ROAD

POINT A5
Elev. 853.88



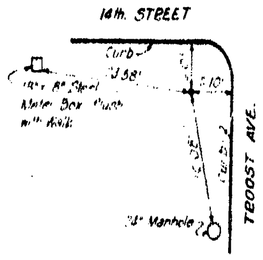
TRUMAN ROAD

POINT A6
Elev. 841.20

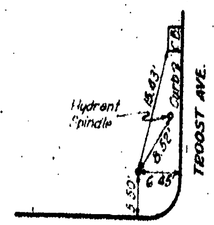


TRUMAN ROAD

POINT A7
Elev. 867.18

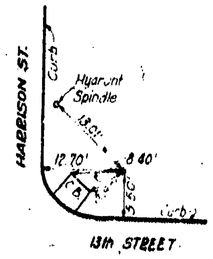


P.O.T. 14th & B-32
Elev. 866.00



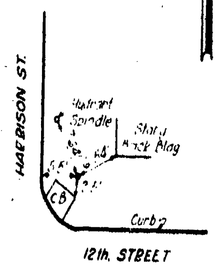
13th STREET

POINT A8
Elev. 864.11



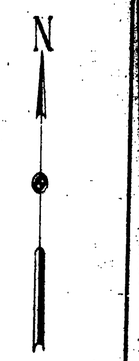
13th STREET

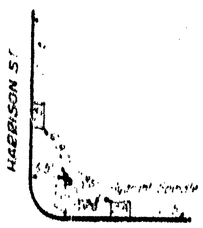
POINT A9
Elev. 876.08



12th STREET

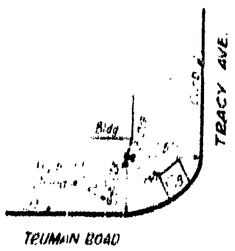
P.O.T. 12th
Elev. 898.07





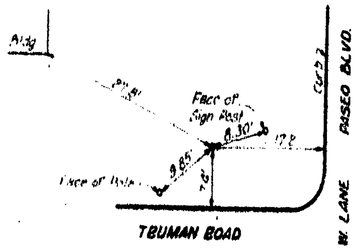
11th STREET

POINT A 10
Elev. 922.80



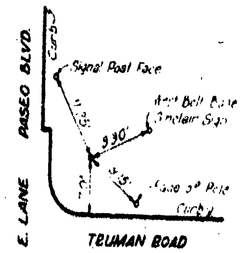
TRUMAN ROAD

POINT B1
Elev. 896.26



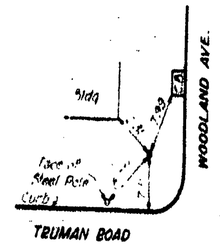
TRUMAN ROAD

POINT B2
Elev. 832.20



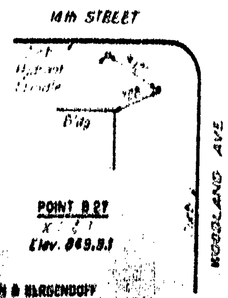
TRUMAN ROAD

POINT B3
Elev. 833.55

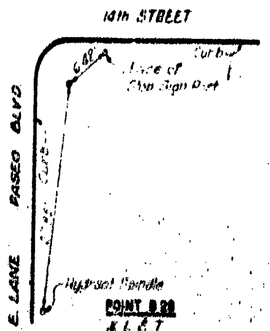


TRUMAN ROAD

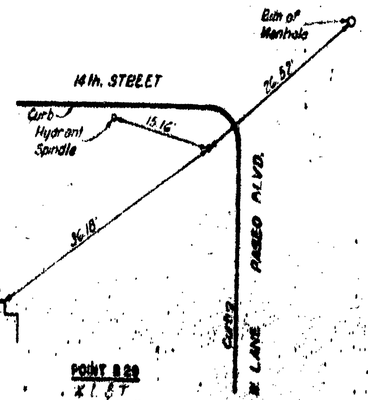
POINT B4
Elev. 846.96



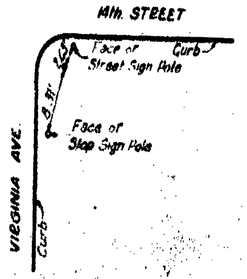
POINT B27
Elev. 869.81



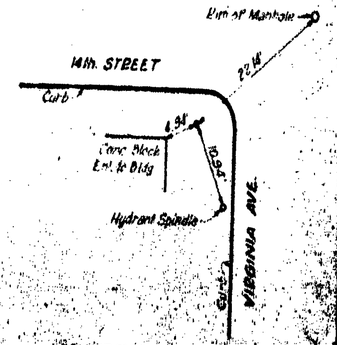
POINT B28
Elev. 852.84



POINT B29
Elev. 848.74



POINT B30
Elev. 856.22

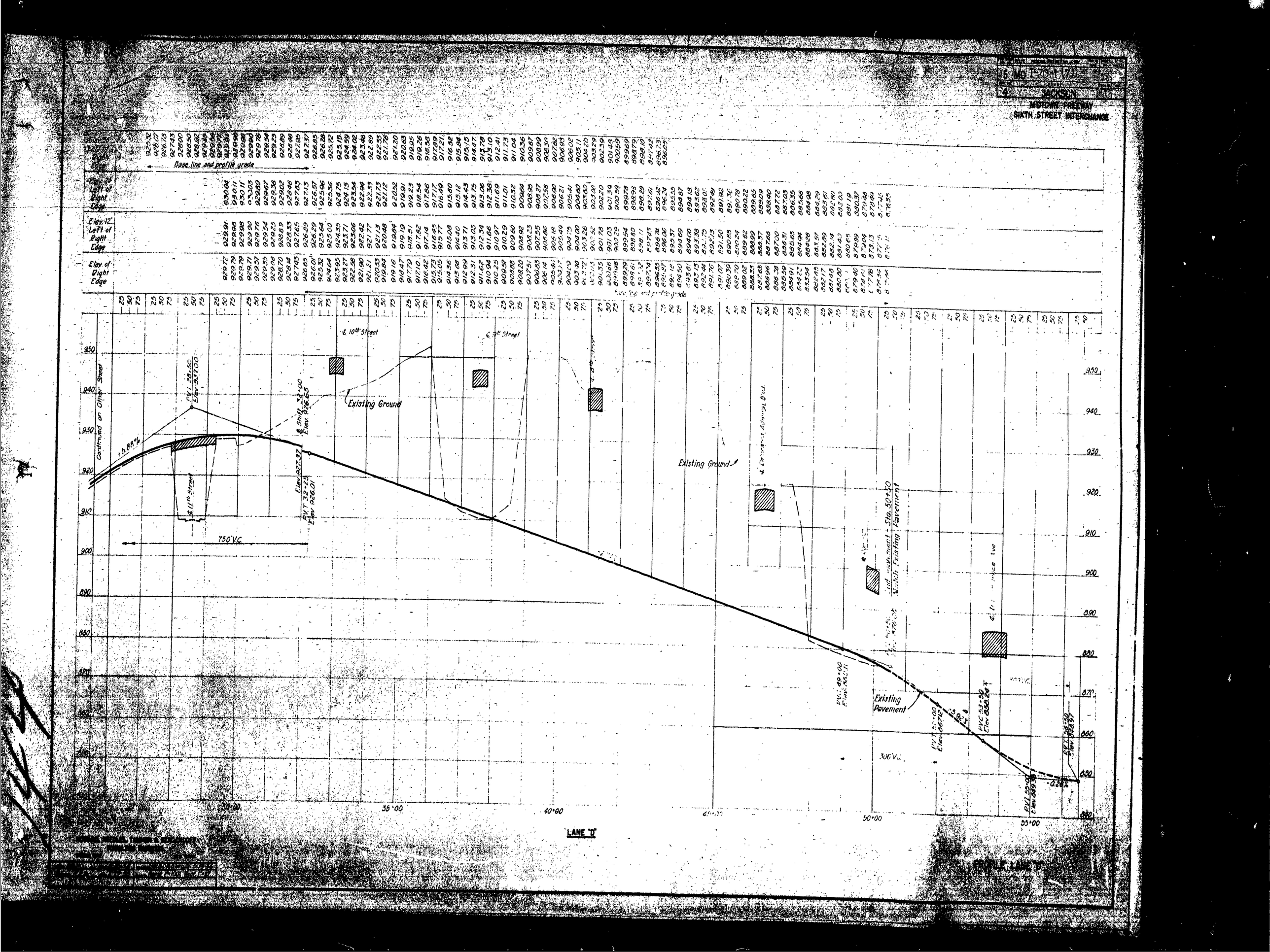


POINT B31
Elev. 868.34

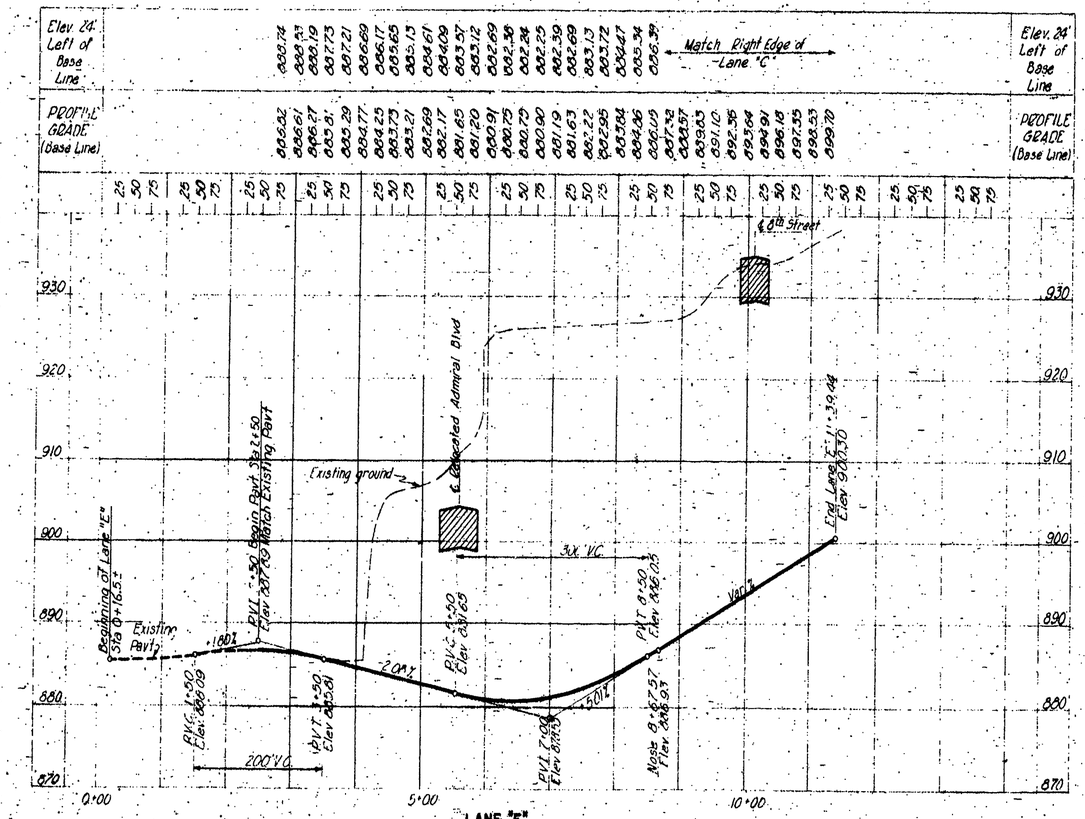
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
Kansas City — New York

REFERENCE TIE SHEET

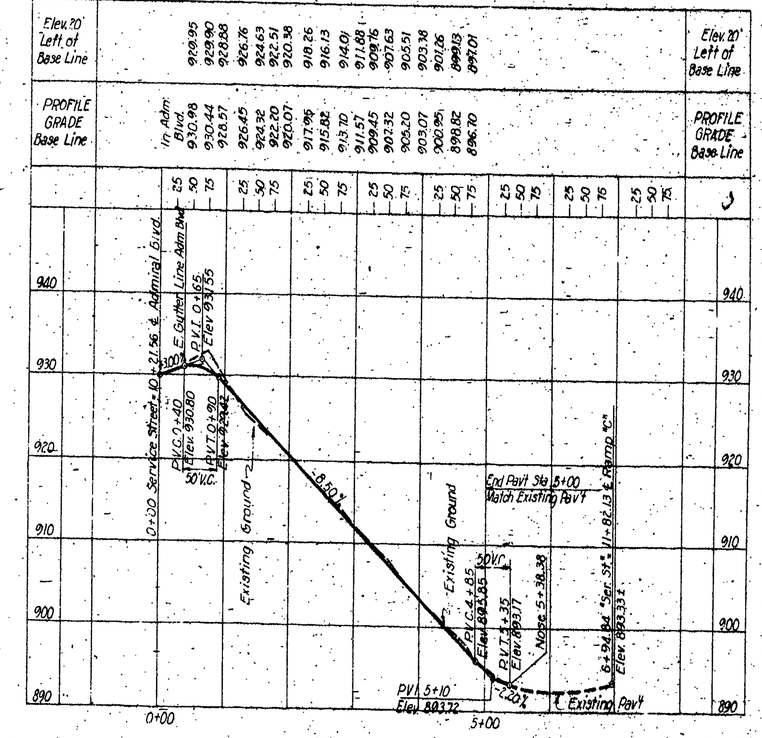
| Elev. of PROFILE GRADE (Base Line) | 849.84 | 849.90 | 850.03 | 850.10 | 850.19 | 850.28 | 850.39 | 850.51 | 850.78 | 850.66 | 850.86 | 851.18 | 851.62 | 852.00 | 852.26 | 852.42 | 852.72 | 853.31 | 853.88 | 854.45 | 854.96 | 855.44 | 855.90 | 855.81 | 856.15 | 856.43 | 856.66 | 856.98 | 857.18 | 857.43 | 857.68 | 857.93 | 858.23 | 858.53 | 859.13 | 859.72 | 860.42 | 861.21 | 862.11 | 863.10 | 864.19 | 865.38 | 866.62 | 867.86 | 869.10 | 870.34 | 871.58 | 872.82 | 874.06 | 875.30 | 876.54 | 877.78 | 879.02 | 880.26 | 881.50 | 882.74 | 883.98 | 885.22 | 886.46 | 887.70 | 888.94 | 890.18 | 891.42 | 892.66 | 893.90 | 895.14 | 896.36 | 897.53 | 898.66 | 899.75 | 900.79 | 901.79 | 902.76 | 903.72 | 904.71 | 905.69 | 906.66 | 907.64 | 908.61 | 909.59 | 910.56 | 911.54 | 912.51 | 913.49 | 914.46 | 915.44 | 916.41 | 917.39 | 918.36 | 919.34 | 920.31 | 921.29 | 922.26 | 923.24 | 924.18 | 925.05 | 925.85 | 926.58 | 927.24 | 927.84 | 928.35 | 928.80 | 929.20 | 929.52 | 929.76 | 929.94 | 930.05 | 930.09 | 930.05 | 929.96 | 929.81 | 929.59 | 929.23 | 928.86 | 928.41 | 927.86 | 927.30 | 926.65 | 925.92 | 925.10 | 924.39 | 923.33 | Elev. of PROFILE GRADE (Base Line) |
|---|---|---



5 MO I-70 + V71
4 JACKSON
MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE
Elev. 36 Left of Right Edge
Elev. 24 Left of Right Edge
Elev. 12 Left of Right Edge
Elev. of Right Edge
Base line and profile grade
Continued on Other Sheet
℄ 10th Street
℄ 9th Street
℄ 11th Street
Existing Ground
Existing Pavement
750' V.C.
300' V.C.
35+00
40+00
50+00
55+00
LANE "D"
PROFILE LANE "D"



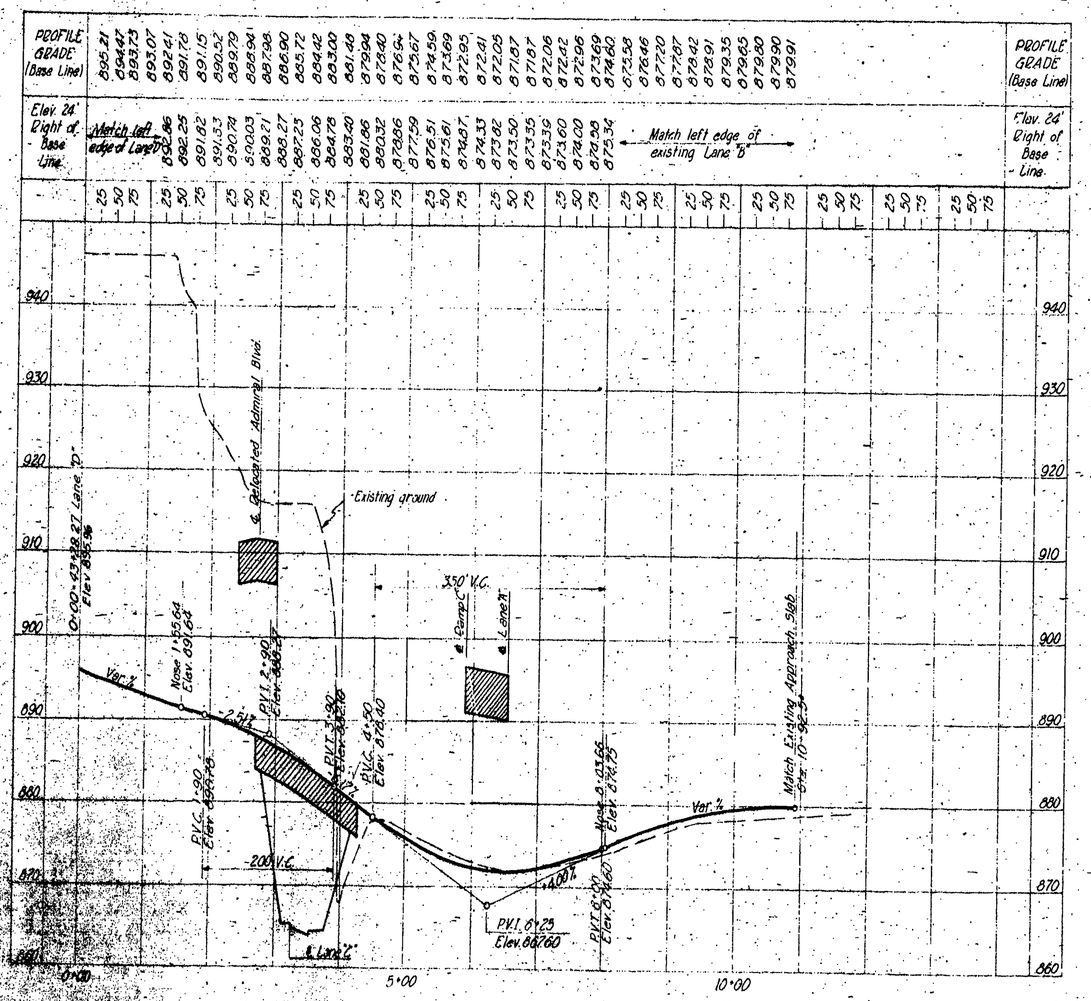
LANE "E"

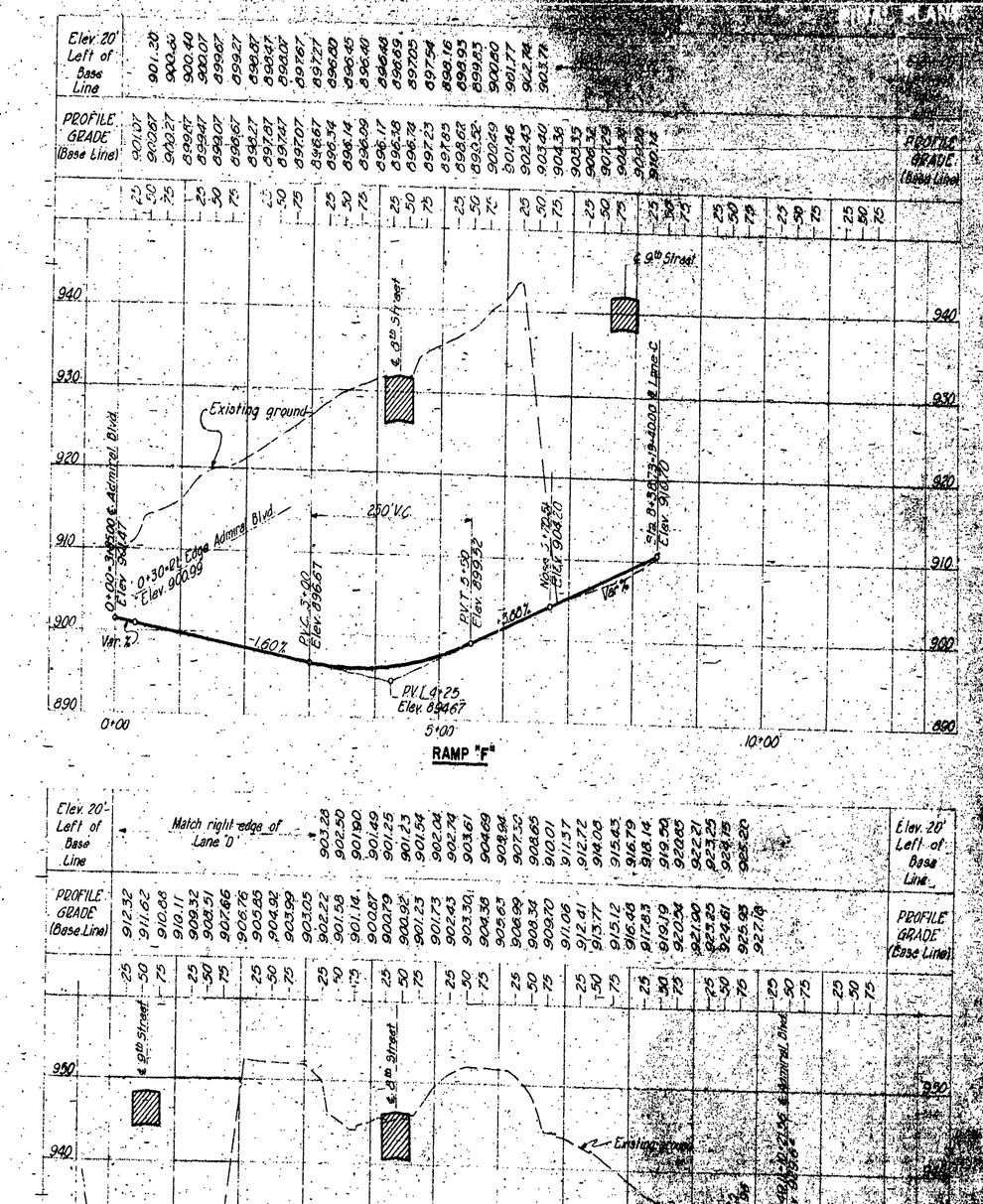


SERVICE STREET

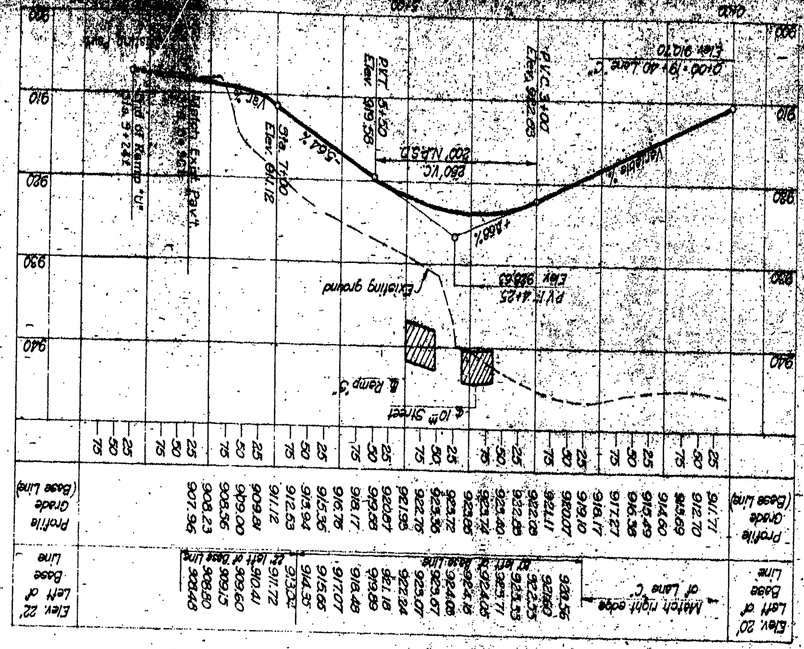
145

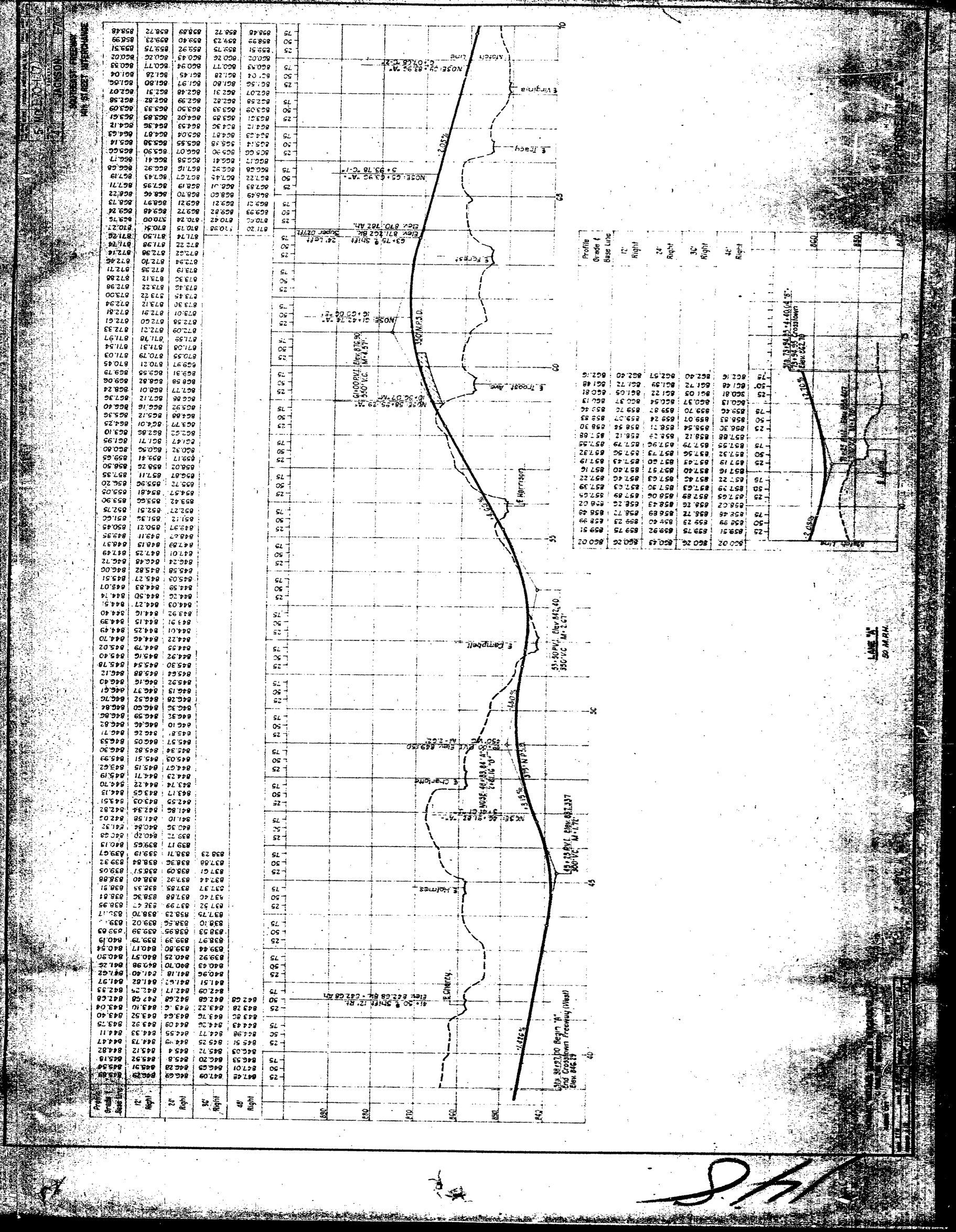
PROFILES
LANE "E"
SERVICE STREET


PROFILE GRADE (Base Line)
Elev. 24' Right of Base Line
Match left edge of existing Lane "B"
Match left edge of Lane "B"
Existing ground
℄ Detroit-Admiral Blvd
℄ Lane "F"
350' V.C.
Ramp "C"
Lane "F"
Nose 1+55.64 Elev. 891.63
P.V.I. 2+90 Elev. 888.38
P.V.C. 1+90 Elev. 888.48
P.V.C. 3+90 Elev. 886.16
P.V.C. 4+30 Elev. 876.80
Nose 9+13.66 Elev. 874.75
P.V.I. 8+30 Elev. 874.60
P.V.I. 6+25 Elev. 886.60
Var. %
-2.61%
-4.00%
200' V.C.
Match Existing Approach Slab Elev. 10+92.5
0+00
5+00
10+00
LANE "F" (NORTH)


Elev. 20' Left of Base Line
PROFILE GRADE (Base Line)
℄ 9th Street
℄ 8th Street
Existing ground
250' V.C.
0+00-38.00 ℄ Admiral Blvd Elev. 904.27
0+30+21 Edge Admiral Blvd Elev. 900.99
P.V.C. 3+40 Elev. 896.87
P.V.T. 5+50 Elev. 899.52
Nose 7+72.54 Elev. 904.20
0+00-40.00 ℄ Lane C Elev. 916.70
-1.60%
+3.60%
Var. %
P.V.I. 4+25 Elev. 894.67
0+00
5+00
10+00
RAMP "F"

Elev. 20' Left of Base Line
Match right edge of Lane "D"
PROFILE GRADE (Base Line)
℄ 9th Street
℄ 8th Street
Existing ground
0+00-37.00 Lane "D" Elev. 912.59
300' V.C.
P.V.C. 5+00 Elev. 898.05
P.V.T. 6+00 Elev. 898.23


RAMP "A"
Match right edge of lane "C"
Elev. 20' Left of Base Line
Profile Grade (Base Line)
Elev. 22' Left of Base Line
Existing ground
Lane "C"
Variable %
PVI 4+25
Elev. 928.63
+1.86%
Elev. 927.20
Elev. 926.55
Elev. 926.40
Elev. 925.55
Elev. 925.35
Elev. 924.95
Elev. 924.75
Elev. 924.55
Elev. 924.11
Elev. 923.91
Elev. 923.71
Elev. 923.51
Elev. 923.31
Elev. 923.11
Elev. 922.91
Elev. 922.71
Elev. 922.51
Elev. 922.31
Elev. 922.11
Elev. 921.91
Elev. 921.71
Elev. 921.51
Elev. 921.31
Elev. 921.11
Elev. 920.91
Elev. 920.71
Elev. 920.51
Elev. 920.31
Elev.



5 MO E 70-1-17
JACKSON
SOUTHEAST FREEWAY
14th ST. REET INTERCHANGE
Profile Grade & Base Line
12' Right
24' Right
36' Right
48' Right
Match Line
E Virginia
E Tracy
E Forest
E Troost Ave
E Harrison
E Campbell
E Charlotte
E Holmes
E Cherry
LANE "A"
50 M.P.H.

SOUTHEAST FREEWAY
14TH STREET INTERCHANGE

JACKSON

LANE "B"
50 M.P.H.

PROFILE LANE "B"

S MO 72-1 (7) 44

JACKSON 170

SOUTHEAST FREEWAY
14TH STREET INTERCHANGE

27+00 P.V.I. Elev. 939.810
850' V.C. M = 10.03'

+3.900 %

NOSE: 27+46.59 "C"
41+39.20 "S"

360' N.P.S.D.

-5.54 %

Sta. 32+28.90 ℄ Shirt
Elev. 910.51 BK.
Elev. 910.75 Ah.

℄ 11th Street

℄ 12th Street

NOSE: 34+97.94 "C"
21+44.29 "E"

NOSE: 36+38.74 "C"
31+27.52 "K"

35+00 P.V.I. Elev. 890.190
340' V.C. M = 2.59

℄ 13th Street

41+75 P.V.I. Elev. 893.350
480' V.C. M = 3.39

+0.560 %

350' NPSD

℄ 14th Street

-5.100 %

℄ Interstate 35E

40+75 P.V.I. Elev. 857.600
150' V.C. M = 0.594'

NOSE: 48+93.29 "C"
31+52.50 "S"

NOSE: 50+15.25 "C"
1+00.29 "N"

-3.000 %

LANE "C"
50 M.P.H.

	Profile Grade & Base Line	12' Right	24' Right	36' Right	48' Right
25	939.810	939.78	939.57		
50	939.654	939.64	939.75		
75	939.498	939.50	939.93		
26	939.342	939.36	939.86		
25	939.186	939.22	939.96		
50	939.030	939.08	939.77		
75	938.874	938.94	939.59		
27	938.718	938.80	939.36		
25	938.562	938.66	939.04		
50	938.406	938.52	938.67		
75	938.250	938.38	938.22		
28	938.094	938.24	938.11		
25	937.938	938.10	937.70		
50	937.782	937.96	937.11		
75	937.626	937.82	936.46	936.46	
29	937.470	937.68	936.73	936.73	
25	937.314	937.54	936.94	936.94	
50	937.158	937.40	936.97	936.97	
75	937.002	937.26	937.44	937.44	
30	936.846	937.12	937.75	937.75	
25	936.690	936.98	937.95	937.95	
50	936.534	936.84	938.07	938.07	
75	936.378	936.70	938.13	938.13	
31	936.222	936.56	938.12	938.12	
25	936.066	936.42	938.05	938.05	
50	935.910	936.28	937.92	937.92	
75	935.754	936.14	937.73	937.73	
32	935.598	936.00	937.48	937.48	
25	935.442	935.86	937.17	937.17	
50	935.286	935.72	936.80	936.80	
75	935.130	935.58	936.37	936.37	
33	934.974	935.44	935.88	935.88	
25	934.818	935.30	935.33	935.33	
50	934.662	935.16	934.72	934.72	
75	934.506	935.02	934.04	934.04	
34	934.350	934.88	933.30	933.30	
25	934.194	934.74	932.50	932.50	
50	934.038	934.60	931.64	931.64	
75	933.882	934.46	930.72	930.72	
35	933.726	934.32	929.74	929.74	
25	933.570	934.18	928.70	928.70	
50	933.414	934.04	927.60	927.60	
75	933.258	933.90	926.44	926.44	
36	933.102	933.76	925.22	925.22	
25	932.946	933.62	923.94	923.94	
50	932.790	933.48	922.60	922.60	
75	932.634	933.34	921.20	921.20	
37	932.478	933.20	919.74	919.74	
25	932.322	933.06	918.22	918.22	
50	932.166	932.92	916.64	916.64	
75	932.010	932.78	915.00	915.00	
38	931.854	932.64	913.30	913.30	
25	931.698	932.50	911.54	911.54	
50	931.542	932.36	909.72	909.72	
75	931.386	932.22	907.84	907.84	
39	931.230	932.08	905.90	905.90	
25	931.074	931.94	903.90	903.90	
50	930.918	931.80	901.84	901.84	
75	930.762	931.66	899.72	899.72	
40	930.606	931.52	897.54	897.54	
25	930.450	931.38	895.30	895.30	
50	930.294	931.24	893.00	893.00	
75	930.138	931.10	890.64	890.64	
41	929.982	930.96	888.22	888.22	
25	929.826	930.82	885.74	885.74	
50	929.670	930.68	883.20	883.20	
75	929.514	930.54	880.60	880.60	
42	929.358	930.40	877.94	877.94	
25	929.202	930.26	875.23	875.23	
50	929.046	930.12	872.46	872.46	
75	928.890	929.98	869.64	869.64	
43	928.734	929.84	866.76	866.76	
25	928.578	929.70	863.82	863.82	
50	928.422	929.56	860.84	860.84	
75	928.266	929.42	857.80	857.80	
44	928.110	929.28	854.71	854.71	
25	927.954	929.14	851.56	851.56	
50	927.798	929.00	848.36	848.36	
75	927.642	928.86	845.11	845.11	
45	927.486	928.72	841.81	841.81	
25	927.330	928.58	838.46	838.46	
50	927.174	928.44	835.06	835.06	
75	927.018	928.30	831.61	831.61	
46	926.862	928.16	828.11	828.11	
25	926.706	928.02	824.56	824.56	
50	926.550	927.88	820.96	820.96	
75	926.394	927.74	817.31	817.31	
47	926.238	927.60	813.61	813.61	
25	926.082	927.46	809.86	809.86	
50	925.926	927.32	806.06	806.06	
75	925.770	927.18	802.21	802.21	
48	925.614	927.04	798.31	798.31	
25	925.458	926.90	794.36	794.36	
50	925.302	926.76	790.36	790.36	
75	925.146	926.62	786.31	786.31	
49	924.990	926.48	782.21	782.21	
25	924.834	926.34	778.06	778.06	
50	924.678	926.20	773.86	773.86	
75	924.522	926.06	769.61	769.61	
50	924.366	925.92	765.31	765.31	
25	924.210	925.78	760.96	760.96	
50	924.054	925.64	756.56	756.56	
75	923.898	925.50	752.11	752.11	
51	923.742	925.36	747.61	747.61	
25	923.586	925.22	743.06	743.06	
50	923.430	925.08	738.46	738.46	
75	923.274	924.94	733.81	733.81	
52	923.118	924.80	729.11	729.11	
25	922.962	924.66	724.36	724.36	
50	922.806	924.52	719.56	719.56	
75	922.650	924.38	714.71	714.71	
53	922.494	924.24	709.81	709.81	
25	922.338	924.10	704.86	704.86	
50	922.182	923.96	699.86	699.86	
75	922.026	923.82	694.81	694.81	
54	921.870	923.68	689.71	689.71	
25	921.714	923.54	684.56	684.56	
50	921.558	923.40	679.36	679.36	
75	921.402	923.26	674.11	674.11	
55	921.246	923.12	668.81	668.81	
25	921.090	922.98	663.46	663.46	
50	920.934	922.84	658.06	658.06	
75	920.778	922.70	652.61	652.61	
56	920.622	922.56	647.11	647.11	
25	920.466	922.42	641.56	641.56	
50	920.310	922.28	635.96	635.96	
75	920.154	922.14	630.31	630.31	
57	919.998	922.00	624.61	624.61	
25	919.842	921.86	618.86	618.86	
50	919.686	921.72	613.06	613.06	
75	919.530	921.58	607.21	607.21	
58	919.374	921.44	601.31	601.31	
25	919.218	921.30	595.36	595.36	
50	919.062	921.16	589.36	589.36	
75	918.906	921.02	583.31	583.31	
59	918.750	920.88	577.21	577.21	
25	918.594	920.74	571.06	571.06	
50	918.438	920.60	564.86	564.86	
75	918.282	920.46	558.61	558.61	
60	918.126	920.32	552.31	552.31	
25	917.970	920.18	545.96	545.96	
50	917.814	920.04	539.56	539.56	
75	917.658	919.90	533.11	533.11	
61	917.502	919.76	526.61	526.61	
25	917.346	919.62	520.06	520.06	
50	917.190	919.48	513.46	513.46	
75	917.034	919.34	506.81	506.81	
62	916.878	919.20	500.11	500.11	
25	916.722	919.06	493.36	493.36	
50	916.566	918.92	486.56	486.56	
75	916.410	918.78	479.71	479.71	
63	916.254	918.64	472.81	472.81	
25	916.098	918.50	465.86	465.86	
50	915.942	918.36	458.86	458.86	
75	915.786	918.22	451.81	451.81	
64	915.630	918.08	444.71	444.71	
25	915.474	917.94	437.56	437.56	
50	915.318	917.80	430.36	430.36	
75	915.162	917.66	423.11	423.11	
65	915.006	917.52	415.81	415.81	
25	914.850	917.38	408.46	408.46	
50	914.694	917.24	401.06	401.06	
75	914.538	917.10	393.61	393.61	
66	914.382	916.96	386.11	386.11	
25	914.226	916.82	378.56	378.56	
50	914.070	916.68	370.96	370.96	
75	913.914	916.54	363.31	363.31	
67	913.758	916.40	355.61	355.61	
25	913.602	916.26	347.86	347.86	
50	913.446	916.12	340.06	340.06	
75	913.290	915.98	332.21	332.21	
68	913.134	915.84	324.31	324.31	
25	912.978	915.70	316.36	316.36	
50	912.822	915.56	308.36	308.36	
75	912.666	915.42	300.31	300.31	
69	912.510	915.28	292.21	292.21	
25	912.354	915.14	284.06	284.06	
50	912.198	915.00	275.86	275.86	
75	912.042	914.86	267.61	267.61	
70	911.886	914.72	259.31	259.31	
25	911.730	914.58	250.96	250.96	
50	911.574	914.44	242.56	242.56	
75	911.418	914.30	234.11	234.11	
71	911.262	914.16	225.61	225.61	
25	911.106	914.02	217.06	217.06	
50	910.950	913.88	208.46	208.46	
75	910.794	913.74	199.81	199.81	
72	910.638	913.60	191.11	191.11	
25	910.482	913.46	182.36	182.36	
50	910.326	913.32	173.56	173.56	
75	910.170	913.18	164.71	164.71	
73	910.014	913.04	155.81	155.81	
25	909.858	912.90	146.86	146.86	
50	909.702	912.76	137.86	137.86	
75	909.546	912.62	128.81	128.81	
74	909.390	912.48	119.71	119.71	
25	909.234	912.34	110.56	110.56	
50	909.078	912.20	101.36	101.36	
75	908.922	912.06	92.11	92.11	
75	908.766	911.92	82.81	82.81	
25	908.610	911.78	73.46	73.46	
50	908.454	911.64	64.06	64.06	
75	908.298	911.50	54.61	54.61	
76	908.142	911.36	45.11	45.11	
25	907.986	911.22	35.56	35.56	
50	907.830	911.08	25.96	25.96	
75	907.674	910.94	16.31	16.31	
77	907.518	910.80	6.61	6.61	
25	907.362	910.66	896.86	896.86	
50	907.206	910.52	887.06	887.06	
75	907.050	910.38	877.21	877.21	
78	906.894	910.24	867.31	867.31	
25	906.738	910.10	857.36	857.36	
50	906.582	909.96	847.36	847.36	
75	906.426	909.82	837.31	837.31	
79	906.270	909.68	827.21	827.21	
25	906.114	909.54	817.06	817.06	
50	905.958	909.40	806.86	806.86	
75	905.802	909.26	796.61	796.61	
80	905.646	909.12	786.31	786.31	
25	905.490	908.98	775.96	775.96	
50	905.334	908.84	765.56	765.56	
75	905.178	908.70	755.11	755.11	
81	905.022	908.56	744.61	744.61	
25	904.866	908.42	734.06	734.06	
50	904.710	908.28	723.46	723.46	
75	904.554	908.14	712.81	712.81	
82	904.398	908.00	702.11	702.11	
25	904.242	907.86	691.36	691.36	
50	904.086	907.72	680.56	680.56	
75	903.930	907.58	669.71	669.71	
83	903.774	907.44	658.81	658.81	
25	903.618	907.30	647.86	647.86	
50	903.462	907.16	636.86	636.86	
75	903.306	907.02	625.81	625.81	
84	903.150	906.88	614.71	614.71	
25	902.994	906.74	603.56	603.56	
50	902.838	906.60	592.36	592.36	
75	902.682	906.46	581.11	581.11	
85	902.526	906.32	569.81	569.81	
25	902.370	906.18	558.46	558.46	
50	902.214	906.04	547.06	547.06	
75	902.058	905.90	535.61	535.61	
86	901.902	905.76	524.11	524.11	
25	901.746	905.62	512.56	512.56	
50	901.590	905.48	500.96	500.96	
75	901.434	905.34	489.31	489.31	
87	901.278	905.20	477.61	477.61	
25	901.122	905.06	465.86	465.86	
50	900.966	904.92	454.06	454.06	
75	900.810	904.78	442.21	442.21	
88	900.654	904.64	430.31	430.31	
25	900.498	904.50	418.36	418.36	
50	900.342	904.36	406.36	406.36	
75	900.186	904.22	394.31	394.31	
89	900.030	904.08	382.21	382.21	
25	899.874	903.94	370.06	370.06	
50	899.718	903.80	357.86	357.86	
75	899.562	903.66	345.61	345.61	
90	899.406	903.52	333.31	333.31	
25	899.250	903.38	320.96	320.96	
50	899.094	903.24	308.56	308.56	
75	898.938	903.10	296.11	296.11	
91	898.782	902.96	283.61	283.61	
25	898.626	902.82	271.06	271.06	
50	898.470	902.68	258.46	258.46	
75	898.314	902.54	245.81	245.81	
92	898.158	902.40	233.11	233.11	
25	898.002	902.26	220.36	220.36	
50	897.846	902.12	207.56	207.56	
75	897.690	901.98	194.71	194.71	
93	897.534	901.84	181.81	181.81	
25	897.378	901.70	168.86	168.86	
50	897.222	901.56	155.86	155.86	
75	897.066	901.42	142.81	142.81	
94	896.910	901.28	129.71	129.71	
25	896.754	901.14	116.56	116.56	
50	896.598	901.00	103.36	103.36	
75	896.442	900.86	90.11	90.11	
95	896.286	900.72	76.81	76.81	
25	896.130	900.58	63.46	63.46	
50	895.974	900.44	50.06	50.06	
75	895.818	900.30	36.61	36.61	
96	895.662	900.16	23.11	23.11	
25	895.506	900.02	9.56	9.56	
50	895.350	899.88	895.96	895.96	
75	895.194	899.74	882.31	882.31	
97	895.038	899.60	868.61	868.61	
25	894.882	899.46	854.86	854.86	
50	894.726	899.32	841.06	841.06	
75	894.570	899.18	827.21	827.21	
98	894.414	899.04	813.31	813.31	
25	894.258	898.90	799.36	799.36	
50	894.102	898.76	785.36	785.36	
75	893.946	898.62	771.31	771.31	
99	893.790	898.48	757.21	757.21	
25	893.634	898.34	743.06	743.06	
50	893.478	898.20	728.86	728.86	
75	893.322	898.06	714.61	714.61	
00	893.166	897.92	700.31	700.31	
25	893.010	897.78	685.96	685.96	
50	892.854	897.64	671.56	671.56	
75	892.698	897.50	657.11	657.11	
01	892.542	897.36	642.61	642.61	
25	892.386	897.22	628.06	628.06	
50	892.230	897.08	613.46	613.46	
75	892.074	896.94	598.81	598.81	
02	891.918	896.80	584.11	584.11	
25	891.762	896.66	569.36	569.36	
50	891.606	896.52	554.56	554.56	
75	891.450	896.38	539.71	539.71	
03	891.294	896.24	524.81	524.81	
25	891.138	896.10	509.86	509.86	
50	890.982	895.96	494.86	494.86	
75	890.826	895.82	479.81	479.81	
04	890.670	895.68	464.71	464.71	
25	890.514	895.54	449.56	449.56	
50	890.358	895.40	434.36	434.36	
75	890.202	895.26	419.11	419.11	
05	890.046	895.12	403.81	403.81	
25	889.890	894.98	388.46	388.46	
50	889.734	894.84	373.06	373.06	
75	889.578	894.70	357.61	357.61	
06	889.422	894.56	342.11	342.11	
25	889.266	894.42	326.56	326.56	
50	889.110	894.28	310.96	310.96	
75	888.954	894.14	295.31	295.31	
07	888.798	894.00	279.61	279.61	
25	888.642	893.86	263.86	263.86	
50	888.486	893.72	248.06	248.06	
75	888.330	893.58	232.21	232.21	
08	888.174	893.44	216.31	216.31	
25	888.018	893.30	200.36	200.36	
50	887.862	893.16	184.36	184.36	
75	887.706	893.02	168.31	168.31	
09	887.550	892.88	152.21	152.21	
25	887.394	892.74	136.06	136.06	
50	887.238	892.60	119.86	119.86	
75	887.082	892.46	103.61	103.61	
10	886.926	892.32	87.31	87.31	
25	886.770	892.18	70.96	70.96	
50	886.614	892.04	54.56	54.56	
75	886.458	891.90	38.11	38.11	
11	886.302	891.76	21.61	21.61	
25	886.146	891.62	5.06	5.06	
50	885.990	891.48	888.46	888.46	
75	885.834	891.34	871.81	871.81	
12	885.678	891.20	855.11	855.11	
25	885.522	891.06	838.36	838.36	
50	885.366	890.92	821.56	821.56	
75	885.210	890.78	804.71	804.71	
13	885.054	890.64	787.81	787.81	
25	884.898	890.50	770.86	770.86	
50	884.742	890.36	753.86	753.86	
75	884.586	890.22	736.81	736.81	
14	884.430	890.08	719.71	719.71	
25	884.274	889.94	702.56	702.56	
50	884.118	889.80	685.36	685.36	
75	883.962	889.66	668.11	668.11	
15	883.806	889.52	650.81	650.81	
25	883.650	889.38	633.46	633.46	
50	883.494	889.24	616.06	616.06	
75	883.338	889.10	598.61	598.61	
16	883.182	888.96	581.11	581.11	
25	883.026	888.82	563.56	563.56	
50	882.870	888.68	545.96	545.96	
75	882.714	888.54	528.31	528.31	
17	882.558	888.40	510.61	510.61	
25	882.402	888.26	492.86	492.86	
50	882.246	888.12	475.06	475.06	
75	882.090	887.98	457.21	457.21	
18	881.934	887.84	439.31	439.31	
25	881.778	887.70	421.36	421.36	
50	881.622	887.56	403.36	403.36	
75	881.466	887.42	385.31	385.31	
19	881.310	887.28	367.21	367.21	
25	881.154	887.14	349.06	349.06	
50	880.998	887.00	330.86	330.86	
75	880.842	886.86	312.61	312.61	
20	880.686	886.72	294.31	294.31	
25	880.530	886.58	275.96	275.96	
50	880.374	886.44	257.56	257.56	
75	880.218	886.30	239.11	239.11	
21	880.062	886.16	220.61	220.61	
25	879.906	886.02	202.06	202.06	
50	879.750	885.88	183.46	183.46	
75	879.594	885.74	164.81	164.81	
22	879.438	885.60	146.11	146.11	
25	879.282	885.46	127.36	127.36	
50	879.126	885.32	108.56	108.56	
75	878.970	885.18	89.71	89.71	
23	878.814	885.04	70.81	70.81	
25	878.658	884.90	51.86	51.86	
50	878.502	884.76	32.86	32.86	
75	878.346	884.62	13.81	13.81	
24	878.190	884.48	994.71	994.71	
25	878.034	884.34	975.56	975.56	
50	877.878	884.20	956.36	956.36	
75	877.722	884.06	937.11	937.11	
25	877.566	883.92	917.81	917.81	
50	877.410	883.78	898.46	898.46	
75	877.254	883.64	879.06	879.06	
26	877.098	883.50	859.61	859.61	
25	876.942	883.36	840.11	840.11	
50	876.786	883.22	820.56	820.56	
75	876.630	883.08	800.96	800.96	
27	876.474	882.94	781.31	781.31	
25	876.318	882.80	761.61	761.61	
50	876.162	882.66	741.86	741.86	
75	876.006	882.52	722.06	722.06	
28	875.850	882.38	702.21	702.21	
25	875.694	882.24	682.31	682.31	
50	875.538	882.10	662.36	662.36	
75	875.382	881.96	642.36	642.36	
29	875.226	881.82	622.31	622.31	
25	875.070	881.68	602.21	602.21	
50	874.914	881.54	582.06	582.06	
75	874.758	881.40	561.86	561.86	
30	874.602	881.26	541.61	541.61	
25	874.446	881.12	521.31	521.31	
50	874.290	880.98	500.96	500.96	
75	874.134	880.84	480.56	480.56	
31	873.978	880.70	460.11	460.11	
25	873.822	880.56	439.61	439.61	
50	873.666	880.42	419.06	419.06	
75	873.510	880.28	398.46	398.46	
32	873.354	880.14	377.81	377.81	
25	873.198	880.00	357.11	357.11	
50	873.042	879.86	336.36	336.36	
75	872.886	879.72	315.56	315.56	
33	872.730	879.58	294.71	294.71	
25	872.574	879.44	273.81	273.81	
50	872.418	879.30	252.86	252.86	
75	872.262	879.16	231.86	231.86	
34	872.106	879.02	210.81	210.81	
25	871.950	878.88	189.71	189.71	
50	871.794	878.74	168.56	168.56	
75	871.638	878.60	147.36	147.36	
35	871.482	878.46	126.11	126.11	
25	871.326	878.32	104.81	104.81	
50	871.170	878.18	83.46	83.46	
75	871.014	878.04	62.06	62.06	
36	870.858	877.90	40.61	40.61	
25	870.702	877.76	19.11	19.11	
50	870.546	877.62	997.56	997.56	
75	870.390	877.48	975.96	975.96	
37	870.234	877.34	954.31	954.31	
25	870.078	877.20	932.61	932.61	
50	869.922	877.06	910.86	910.86	
75	869.766	876.92	889.06	889.06	
38	869.610	876.78	867.21	867.21	
25	869.454	876.64	845.31	845.31	
50	869.298	876.50	823.36	823.36	
75	869.142	876.36	801.36	801.36	
39	868.986	876.22	779.31	779.31	
25	868.830	876.08	757.21	757.21	
50	868.674	875.94	735.06	735.06	
75	868.518	875.80	712.86	712.86	
40	868.362	875.66	690.61	690.61	
25	868.206	875.52	668.31	668.31	
50	868.050	875.38	645.96	645.96	
75	867.894	875.24	623.56	623.56	
41	867.738	875.10	601.11	601.11	
25	867.582	874.96	578.61	578.61	
50	867.426	874.82	556.06	556.06	
75	867.270	874.68	533.46	533.46	
42	867.114	874.54	510.81	510.81	
25	866.958	874.40	488.11	488.11	
50	866.802	874.26	465.36	465.36	
75	866.646	874.12	442.56	442.56	
43	866.490	873.98	419.71	419.71	
25	866.334	873.84	396.81	396.81	
50	866.178	873.70	373.86	373.86	
75	866.022	873.56	350.86	350.86	
44	865.866	873.42	327.81	327.81	
25	865.710	873.28	304.71	304.71	
50	865.554	873.14	281.56	281.56	
75	865.398	873.00	258.36	258.36	
45	865.242	872.86	235.11	235.11	
25	865.086	872.72	211.81	211.81	
50	864.930	872.58	188.46	188.46	
75	864.774	872.44	165.06	165.06	
46	864.618	872.30	141.61	141.61	
25	864.462	872.16	118.11	118.11	
50	864.306	872.02	94.56	94.56	
75	864.150	871.88	70.96	70.96	
47	863.994	871.74	47.31	47.31	
25	863.838	871.60	23.61	23.61	
50	863.682	871.46	999.86	999.86	
75	863.526	871.32	976.06	976.06	
48	863.370	871.18	952.21	952.21	
25	863.214	871.04	928.31	928.31	
50	863.058	870.90	904.36	904.36	
75	862.902	870.76	880.36	880.36	
49	862.746	870.62	856.31	856.31	
25	862.590	870.48	832.21	832.21	
50	862.434	870.34	808.06	808.06	
75	862.278	870.20	783.86	783.86	
50	862.122	870.06	759.61	759.61	
25	861.966	869.92	735.31	735.31	
50	861.810	869.78	710.96	710.96	
75	861.654

JACKSON — I-10

SOUTHEAST FREEWAY
14TH STREET INTERCHANGE

Station	24' Left	MATCH LANE "B" Width Varies 12' to 24'	12' Left	Profile Grade 1' Base Line	12' Right	24' Right	36' Right
0+00		871.17		851.46			
0+25		871.72		862.40			
0+50		872.19		863.14			
0+75		872.62		863.77			
1+00		872.95		864.36			
1+25		873.20		864.95			
1+50		873.38		865.56			
1+75		873.53		866.15			
2+00		873.67		866.75			
2+25		873.81		867.34			
2+50		873.96		867.94			
2+75		874.15		868.52			
3+00		874.45		869.11			
3+25		874.83		869.70			
3+50		875.30		870.28			
3+75		875.80		870.79			
4+00		876.26		871.19			
4+25		876.76		871.45			
4+50		877.15		871.65			
4+75		877.47		871.82			
5+00		877.71		871.96			
5+25		877.89		872.09			
5+50		877.95		872.23			
5+75		877.88		872.37			
6+00		877.69		872.51			
6+25		877.34		872.71			
6+50		876.94		873.01			
6+75		876.52		873.39			
7+00		876.08		873.84			
7+25		875.63		874.36			
7+50		875.14		874.96			
7+75		874.58		875.32			
8+00		874.15		875.71			
8+25		873.94		876.03			
8+50		873.82		876.27			
8+75		873.80		876.44			
9+00		873.80		876.56			
9+25		873.80		876.64			
9+50		873.80		876.69			
9+75		873.80		876.72			
10+00		873.80		876.74			
10+25		873.80		876.75			
10+50		873.80		876.76			
10+75		873.80		876.76			
11+00		873.80		876.76			
11+25		873.80		876.76			
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12+00		873.80		876.76			
12+25		873.80		876.76			
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14+00		873.80		876.76			
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16+00		873.80		876.76			
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126+75		873.80		876.76			
127+00		873.80		876.76			
127+25		873.80		876.76			
127+50		873.80		876.76			
127+75		873.80		876.76			
128+00		873.80		876.76			
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129+25		873.80		876.76			
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157+50		873.80		876.76			
157+75		873.80		876.76			
158+00		873.80		876.76			
158+25		873.80		876.76			
158+50		873.80		876.76

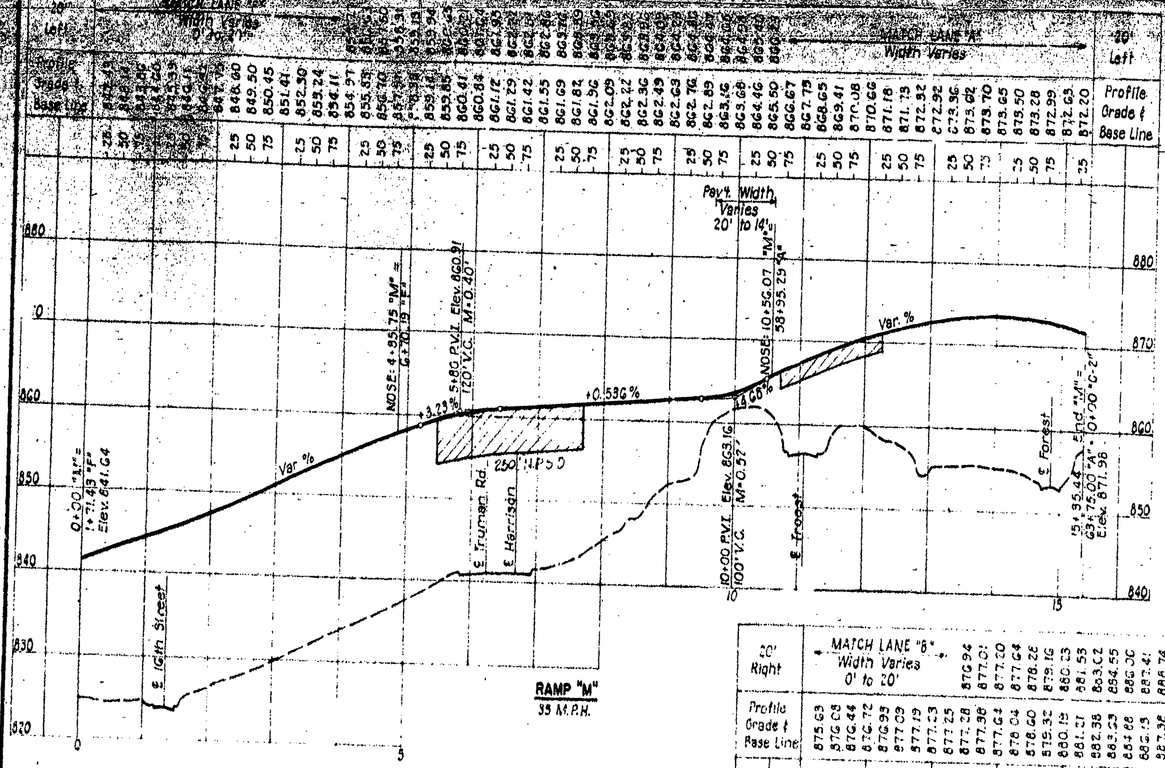
5	M(L-70+(7)	46
4	JACKSON	170

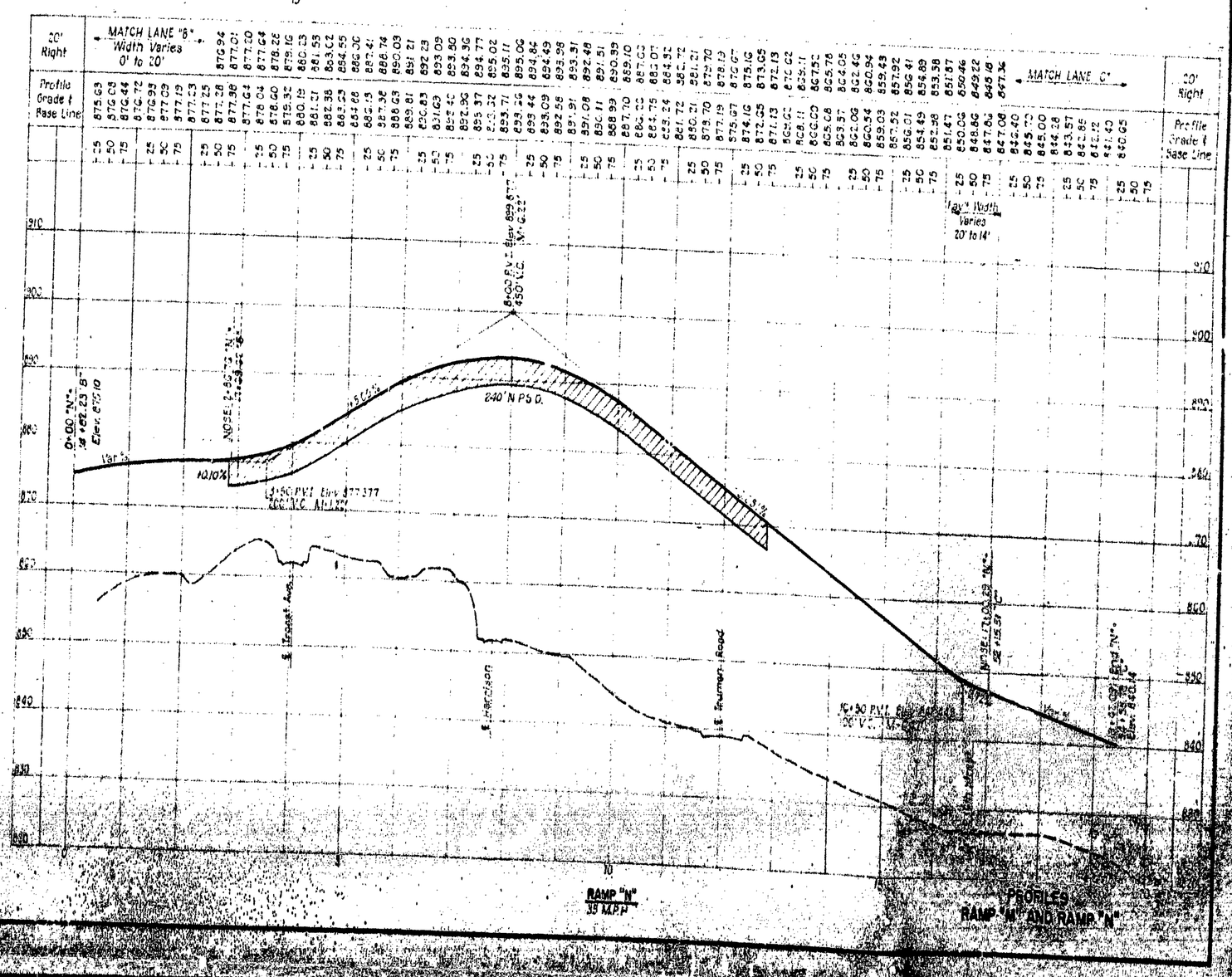
SOUTHEAST FREEWAY
14TH STREET INTERCHANGE

| Profile Grade & Base Line | 909.10 | 907.70 | 906.25 | 904.74 | 903.22 | 901.69 | 900.11 | 898.65 | 897.19 | 895.79 | 894.24 | 892.76 | 891.28 | 889.80 | 888.32 | 886.84 | 885.36 | 883.88 | 882.40 | 881.× | 879.44 | 877.96 | 876.48 | 875.00 | 873.52 | 872.04 | 870.56 | 869.08 | 867.61 | 866.23 | 864.96 | 863.79 | 862.74 | 861.79 | 860.95 | 860.23 | 859.60 | 859.09 | 858.69 | 858.40 | 858.21 | 858.13 | 858.17 | 858.31 | 858.56 | 858.92 | 859.38 | 859.96 | 860.65 | 861.45 | 862.34 | 863.25 | 864.17 | 865.08 | 866.00 | 866.75 | 867.41 | 867.96 | 868.38 | 868.61 | 869.23 | 869.66 | 870.05 | 870.51 | 870.93 | 871.36 | 871.72 | 871.98 | 872.14 | 872.21 | 872.13 | 871.85 | 871.59 | 871.06 | Profile Grade & Base Line |
|---|---|---

| | | |

24' Left	MATCH LANE "C" Width Varies 12' to 24'	12' Left	Profile Grade ℄ Base Line	12' Right	24' Right	MATCH LANE "B" Width Varies 24' to 12'	24' Left	12' Left	Profile Grade ℄ Base Line	12' Right	24' Right
	894.72	894.55	894.72								
	893.86	893.69	893.86								
	893.00	892.75	893.00								
	892.25	892.03	892.25								
	891.60	891.32	891.60								
	891.05	890.89	891.05								
	890.25	890.03	890.25								
	889.21	888.85	889.21								
	887.94	887.50	887.94								
	886.50	886.14	886.50								
	885.06	884.70	885.06								
	883.62	883.27	883.62								
	882.18	881.82	882.18								
	880.73	880.37	880.73								
	879.29	878.93	879.29								
	877.85	877.49	877.85								
	876.43	876.05	876.43								
	875.09	874.61	875.09								
	873.80	873.21	873.80								
	872.57	871.97	872.57								
	871.34	870.69	871.34								
	870.05	869.33	870.05								
	868.71	867.88	868.71								
	867.29	866.45	867.29								
	865.85	865.01	865.85								
	864.41	863.57	864.41								
	862.97	862.13	862.97								
	861.53	860.69	861.53								
	860.09	859.25	860.09								
	858.65	857.81	858.65								
	857.22	856.37	857.22								
	855.78	854.94	855.78								
	854.34	853.50	854.34								
	852.90	852.06	852.90								
	851.46	850.62	851.46								
	850.02	849.18	850.02								
	848.58	847.74	848.58								
	847.14	846.30	847.14								
	845.70	844.86	845.70								
	844.26	843.42	844.26								
	842.82	841.98	842.82								
	841.38	841.14	841.38								
	839.94	839.70	839.94								
	838.50	838.26





PROFILES
RAMP "M" AND RAMP "N"

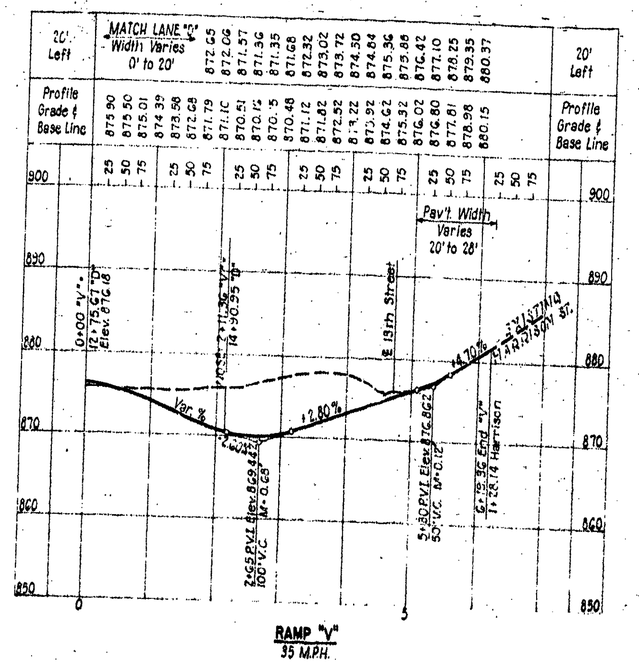
5	MO	I-70-1-170	29
4	JACKSON		

SOUTHEAST FREEWAY
14TH STREET INTERCHANGE

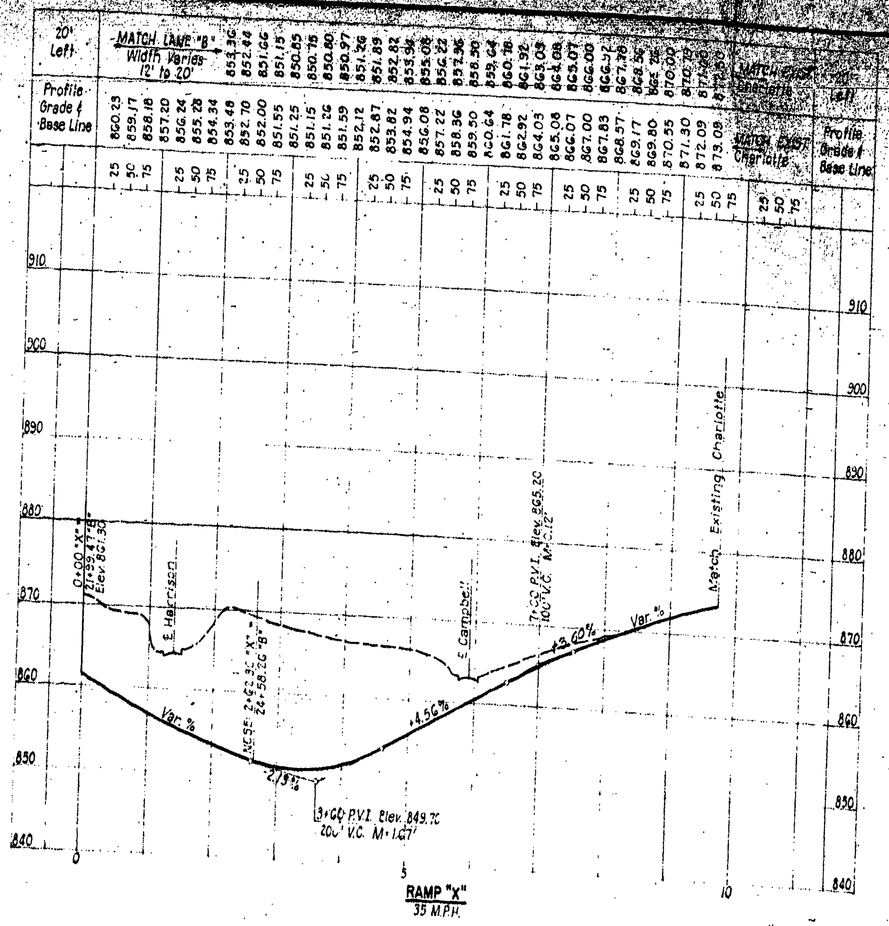
153

5	MO	L-70-1		
4		JACKSON		170

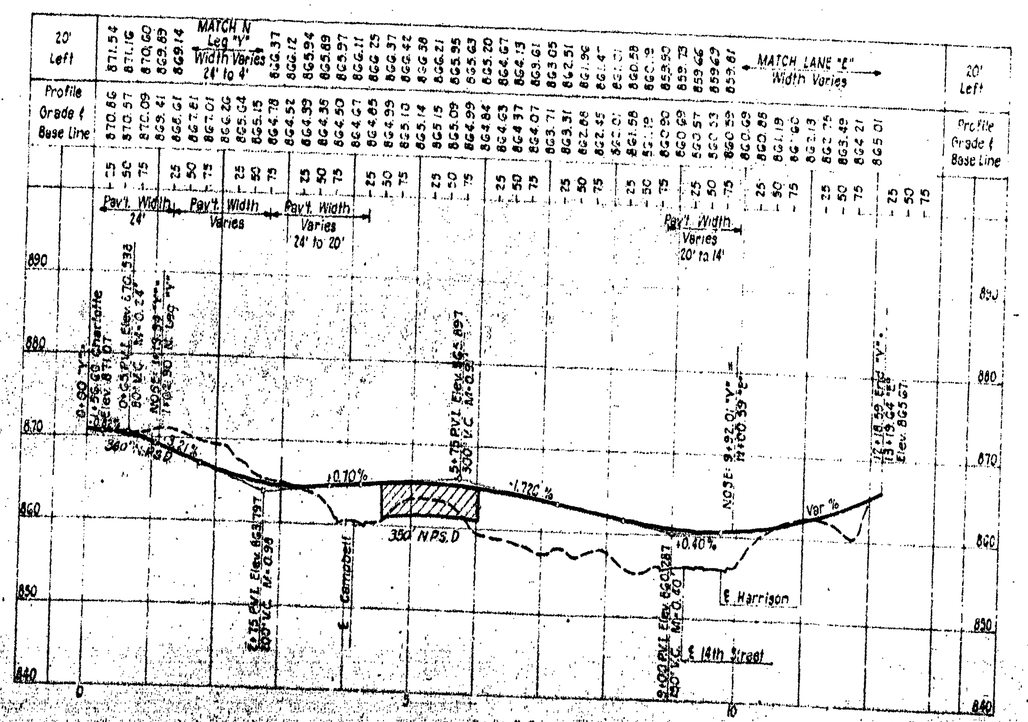
SOUTHEAST FREEWAY
14TH STREET INTERCHANGE



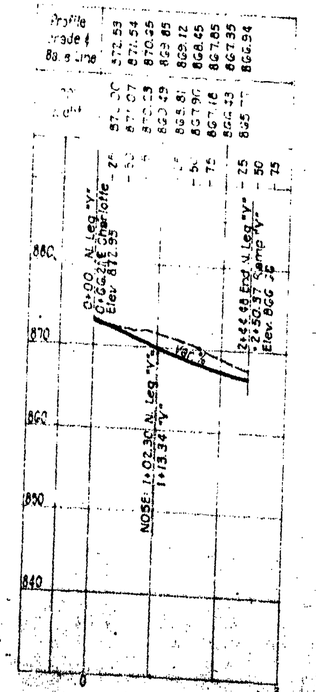
RAMP "V"
35 M.P.H.



RAMP "X"
35 M.P.H.



RAMP "Y"
35 M.P.H.

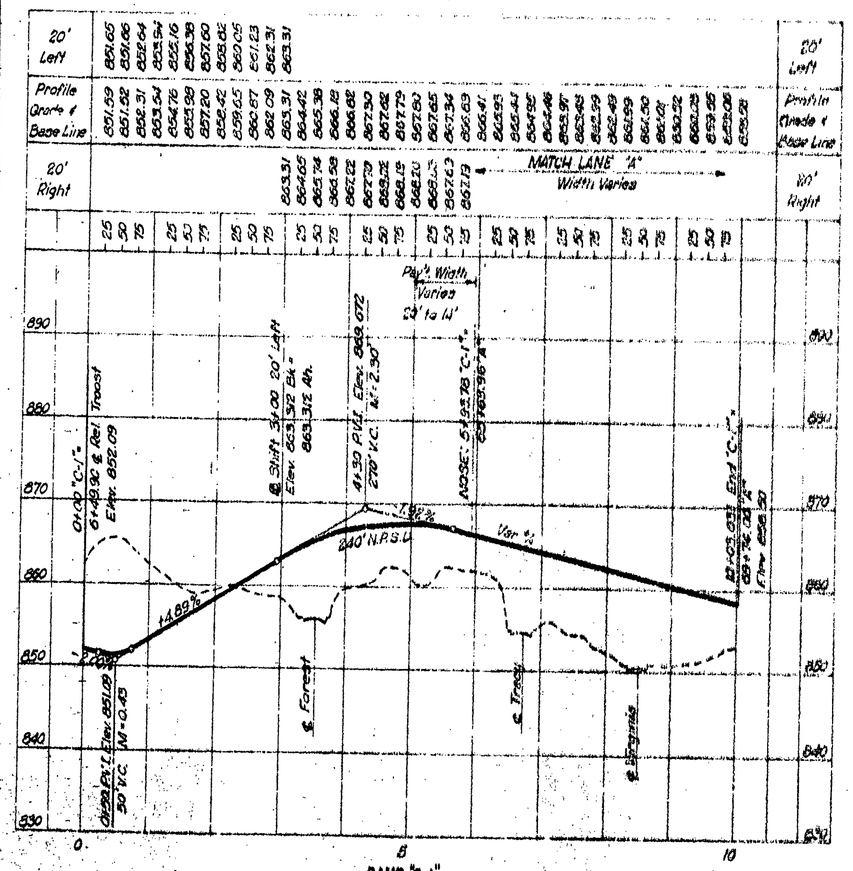


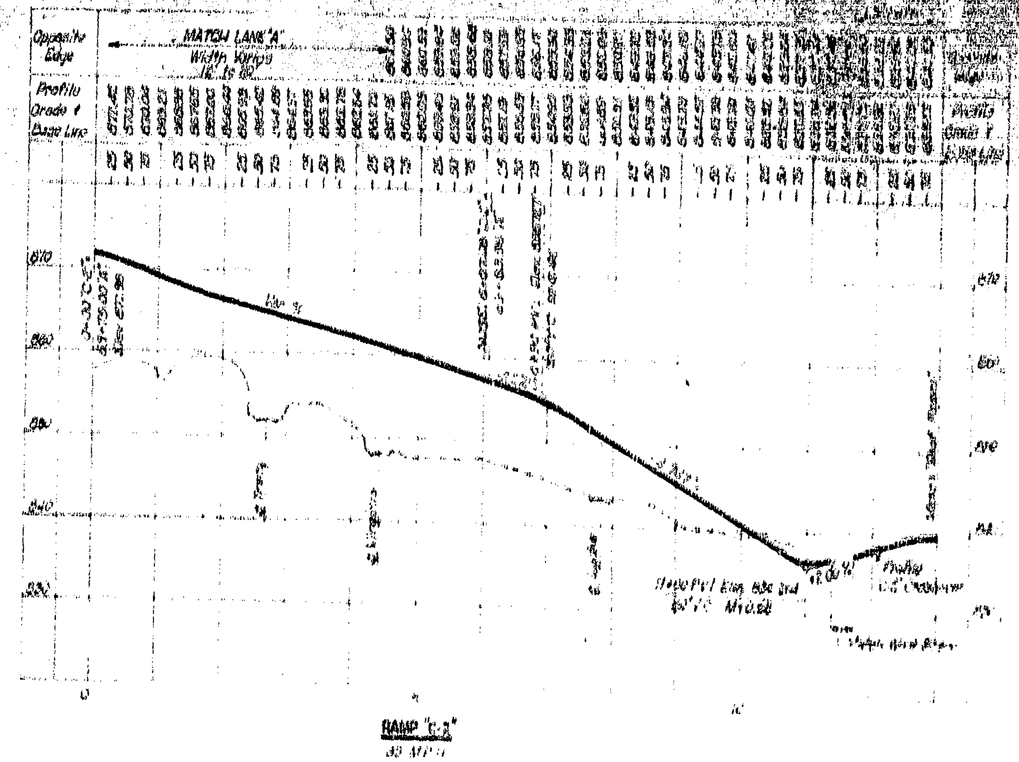
NORTH LEG RAMP "Y"
35 M.P.H.

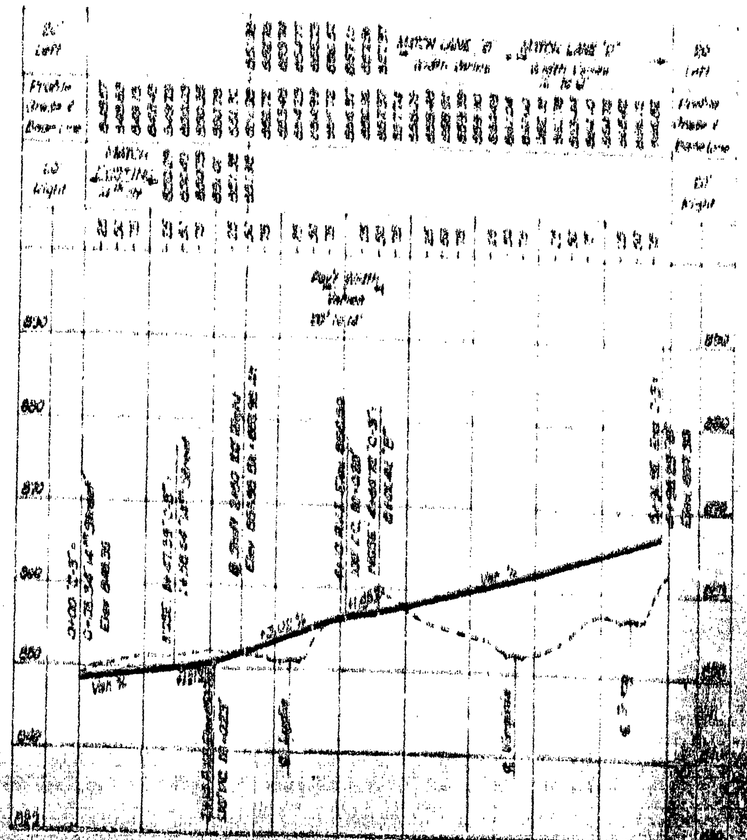
PROFILES
RAMP "V", RAMP "X"
AND RAMP "Y"

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK

15.6

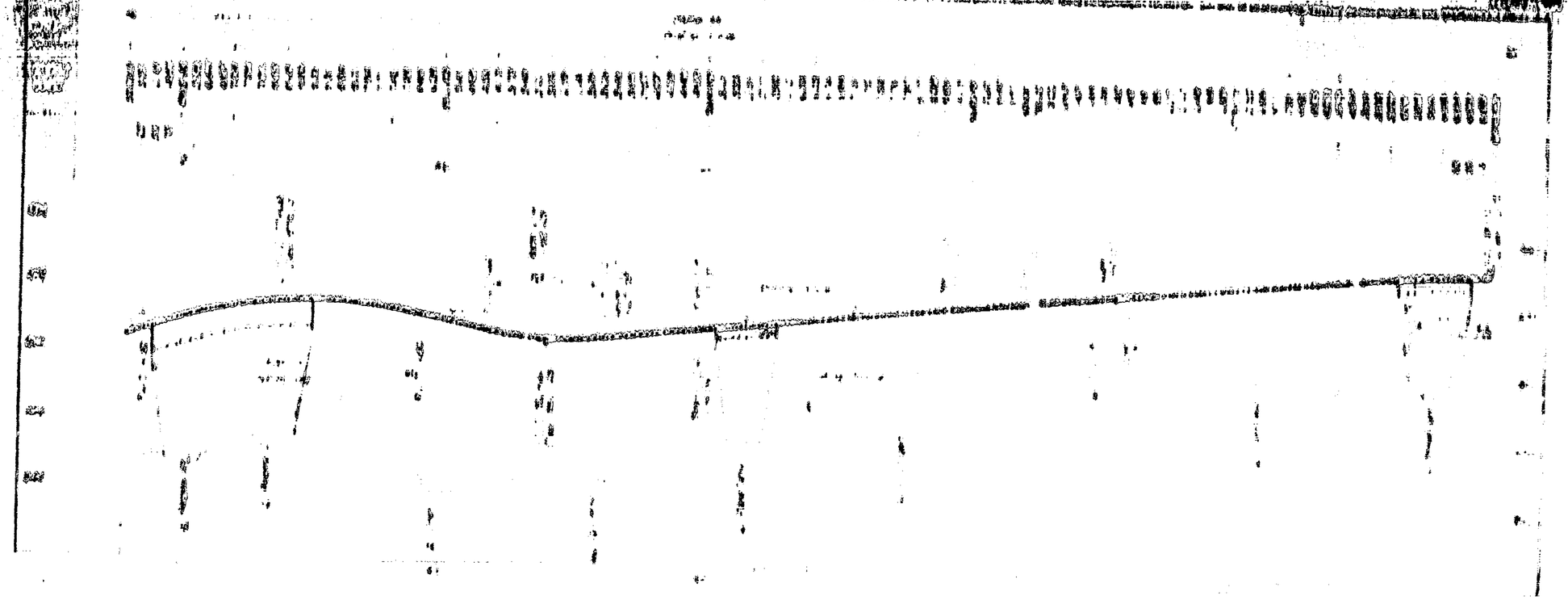


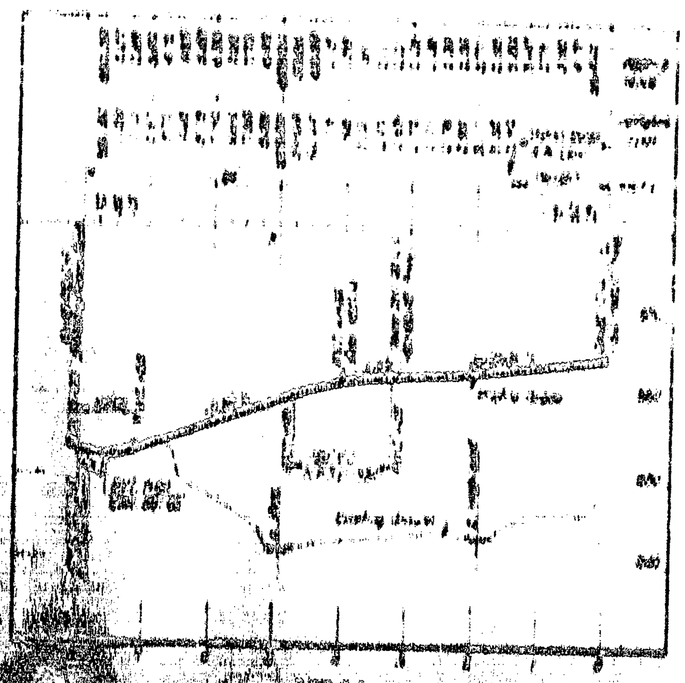


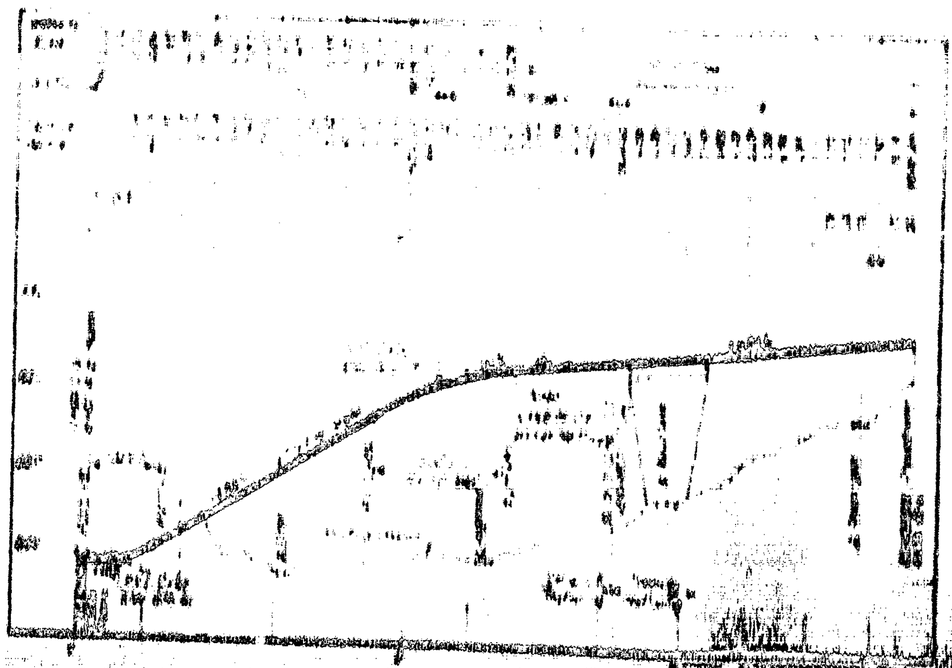


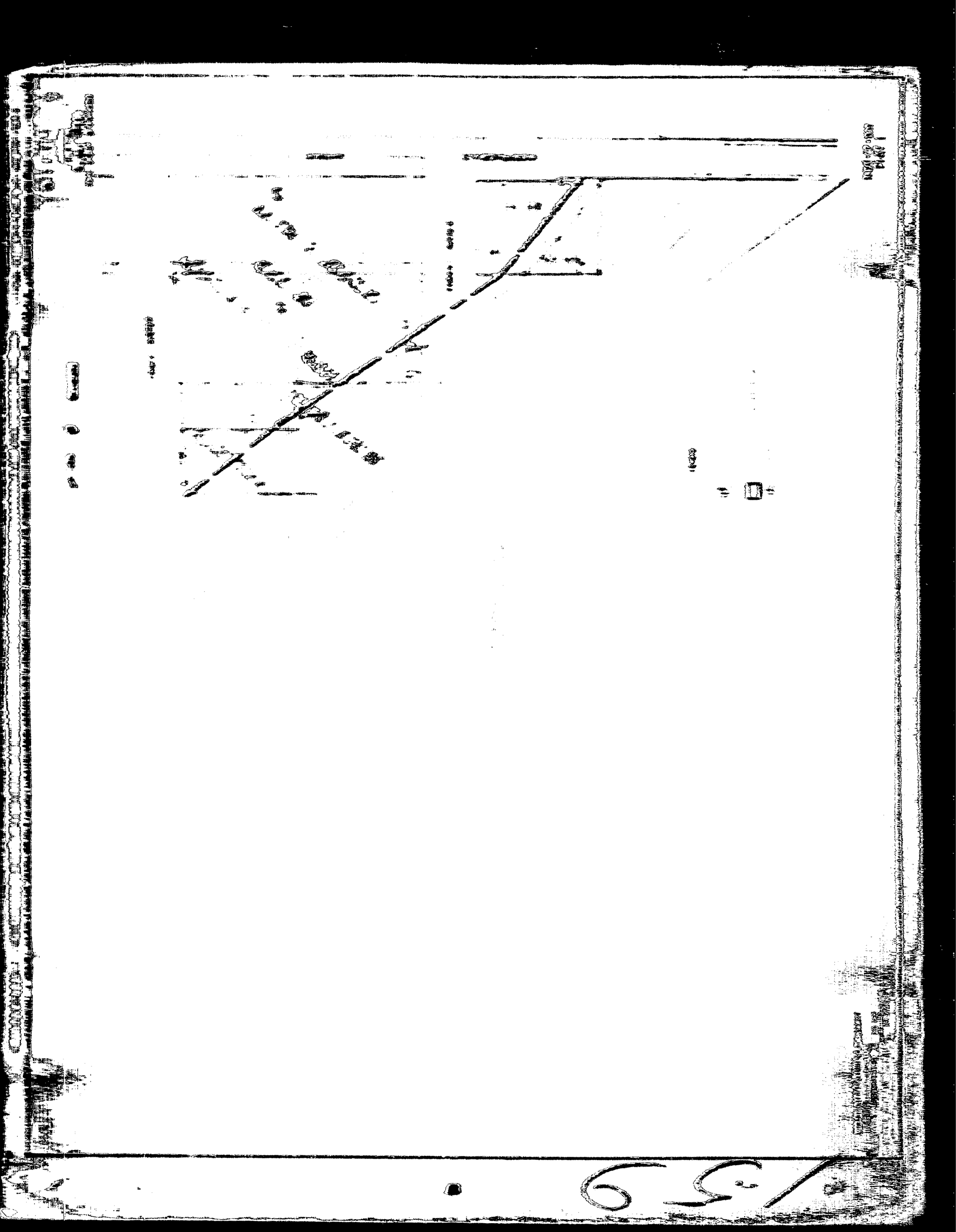
JACKSON
SOUTHWEST FREEWAY
96TH STREET INTERCHANGE

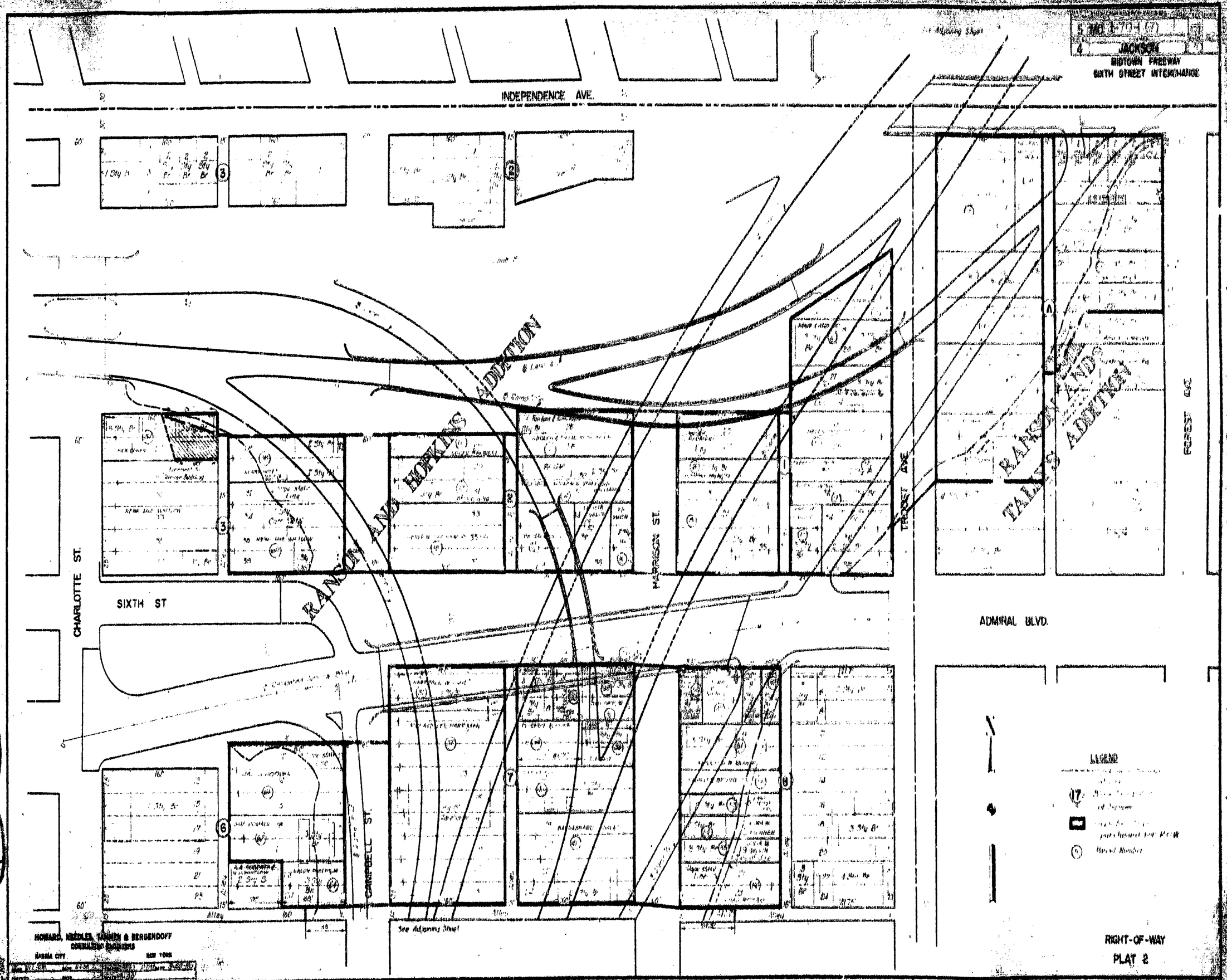
PROFILES
RAMP C-1, RAMP C-2
AND
RAMP D-2





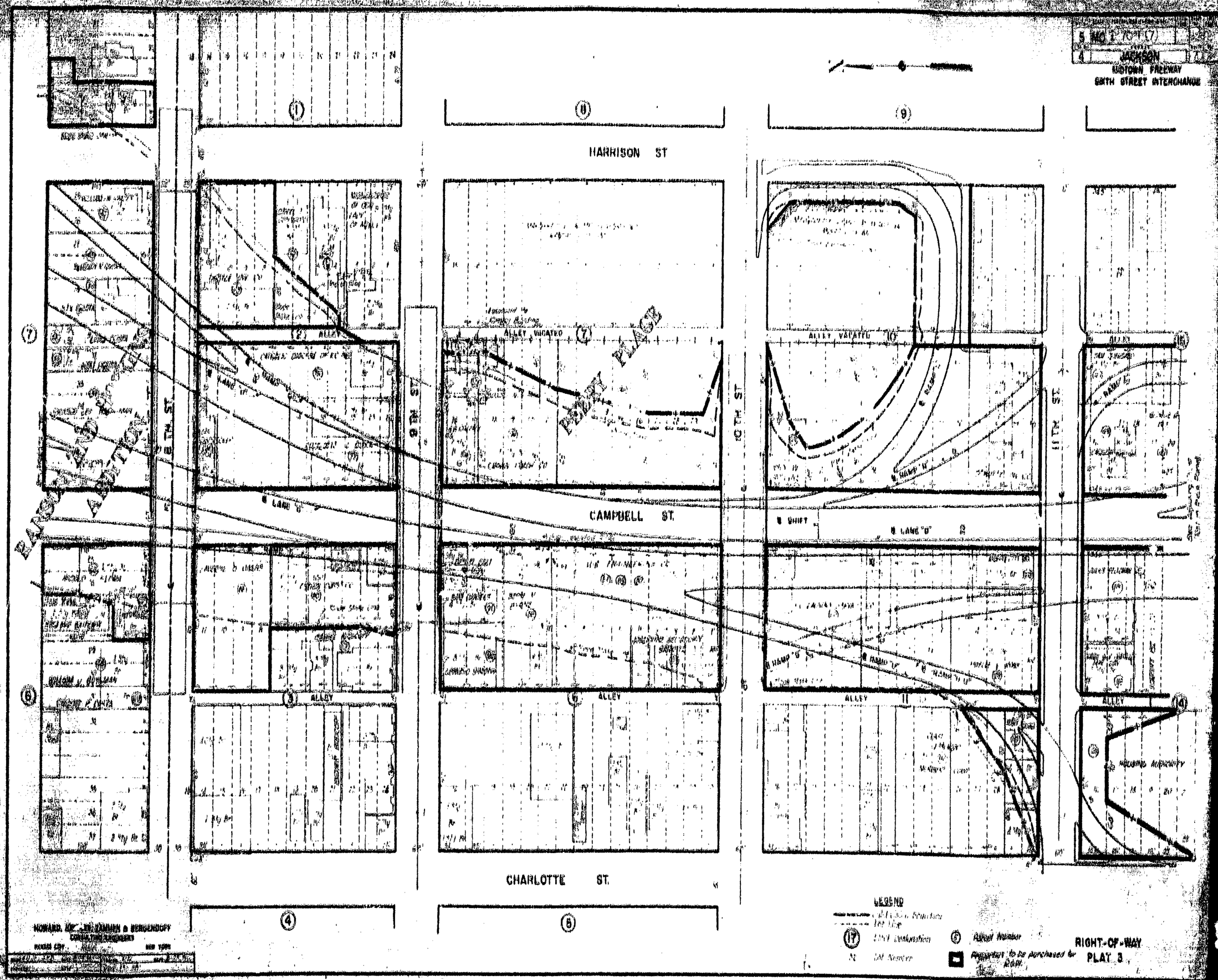




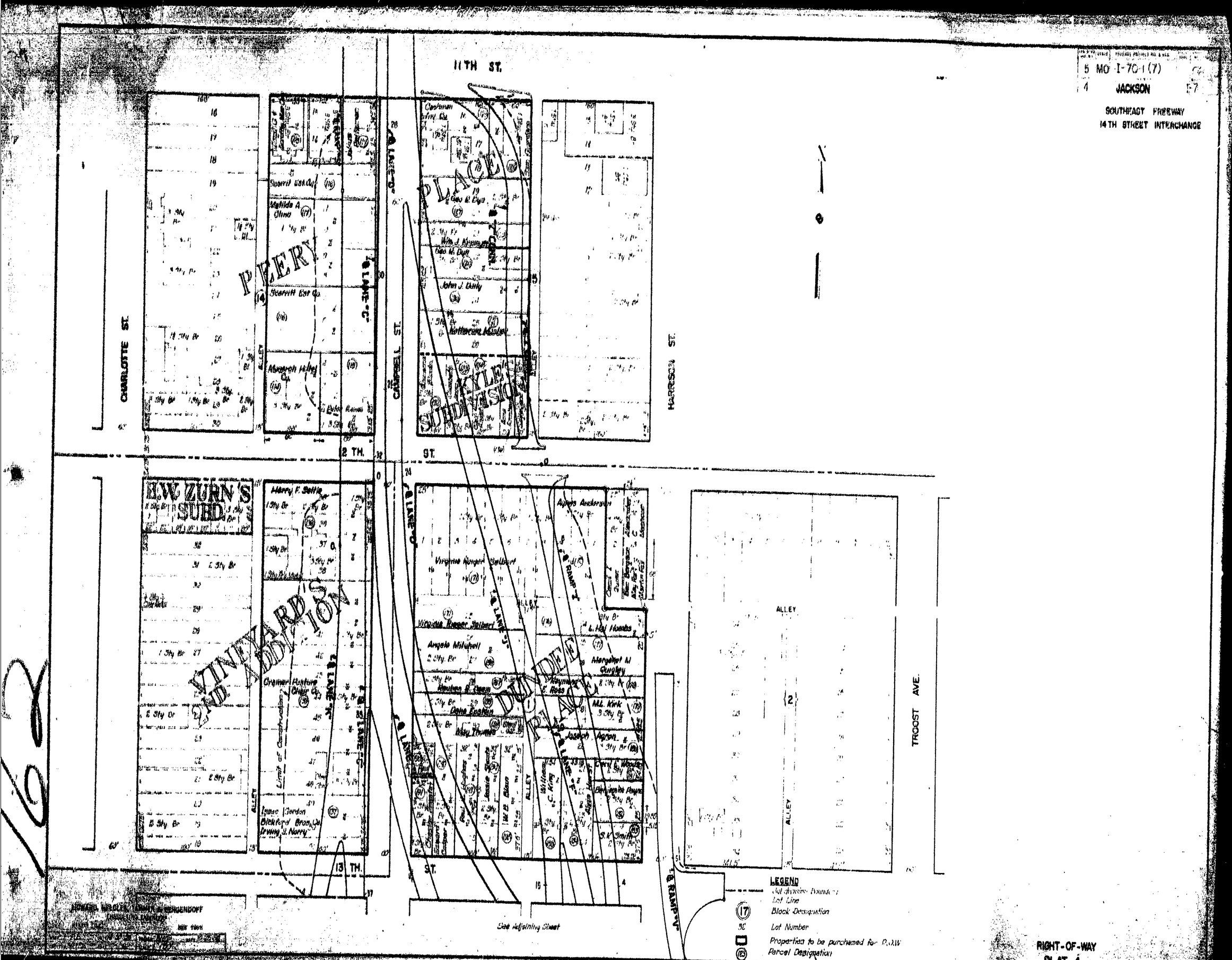


5 MO. 1-70-1 (7)
4 JACKSON
MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE
INDEPENDENCE AVE.
CHARLOTTE ST.
SIXTH ST
HARRISON ST.
TROOST AVE
FOREST AVE
ADMIRAL BLVD.
CAMPBELL ST.
RANSON AND HOPKINS ADDITION
RANSON AND TALLY'S ADDITION
See Adjoining Sheet
LEGEND
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY
NEW YORK
RIGHT-OF-WAY
PLAT 2

160



JACKSON
MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE
HARRISON ST
CAMPBELL ST.
CHARLOTTE ST.
8TH ST
9TH ST
10TH ST
11TH ST
ALLEY VACATED
ALLEY
LANE "D"
SHIFT
HOUSING AUTHORITY
LEGEND
Lot Line
Lot Designation
Lot Number
Parcel Number
Properties to be purchased for R.O.W.
RIGHT-OF-WAY
PLAT 3



5 MO I-70-1 (7)
4 JACKSON F7
SOUTHEAST FREEWAY
14TH STREET INTERCHANGE
11TH ST.
12 TH. ST.
13 TH. ST.
CHARLOTTE ST.
CAMPBELL ST.
HARRISON ST.
TROOST AVE.
PEERY PLACE
KYLE'S SUBDIVISION
H.W. ZURN'S SUBD.
VINEYARD'S 2ND ADDITION
DUNDEE PLACE
ALLEY
Scarritt Est. Co.
Matilda A. Cline
Mosarch Hotel Co.
Geo. N. Dye
John J. Daily
Katherine Mosher
Harry F. Settle
Virginia Rieger Seibert
Angela Mitchell
Reuben B. Deem
Dana Epstein
May Thomas
Agnes Anderson
L. Hal Hombs
Margaret M. Quigley
Raymond E. Ross
M.L. Kirk
Joseph Agron
Benjamin Payne
S.K. Smith
Cramer Pasture Chair Co.
Isaac Gordon
Bickford Bros. Co.
Irving J. Norry
Limit of Construction
See Adjoining Sheet
LEGEND
Subdivision Boundary
Lot Line
Block Designation
Lot Number
Properties to be purchased for R.O.W.
Parcel Designation
RIGHT-OF-WAY
PLAT 4

CROSSTOWN FREEWAY
MAIN STREET INTERCHANGE

5 MO I-70-(7) 157
4 JACKSON

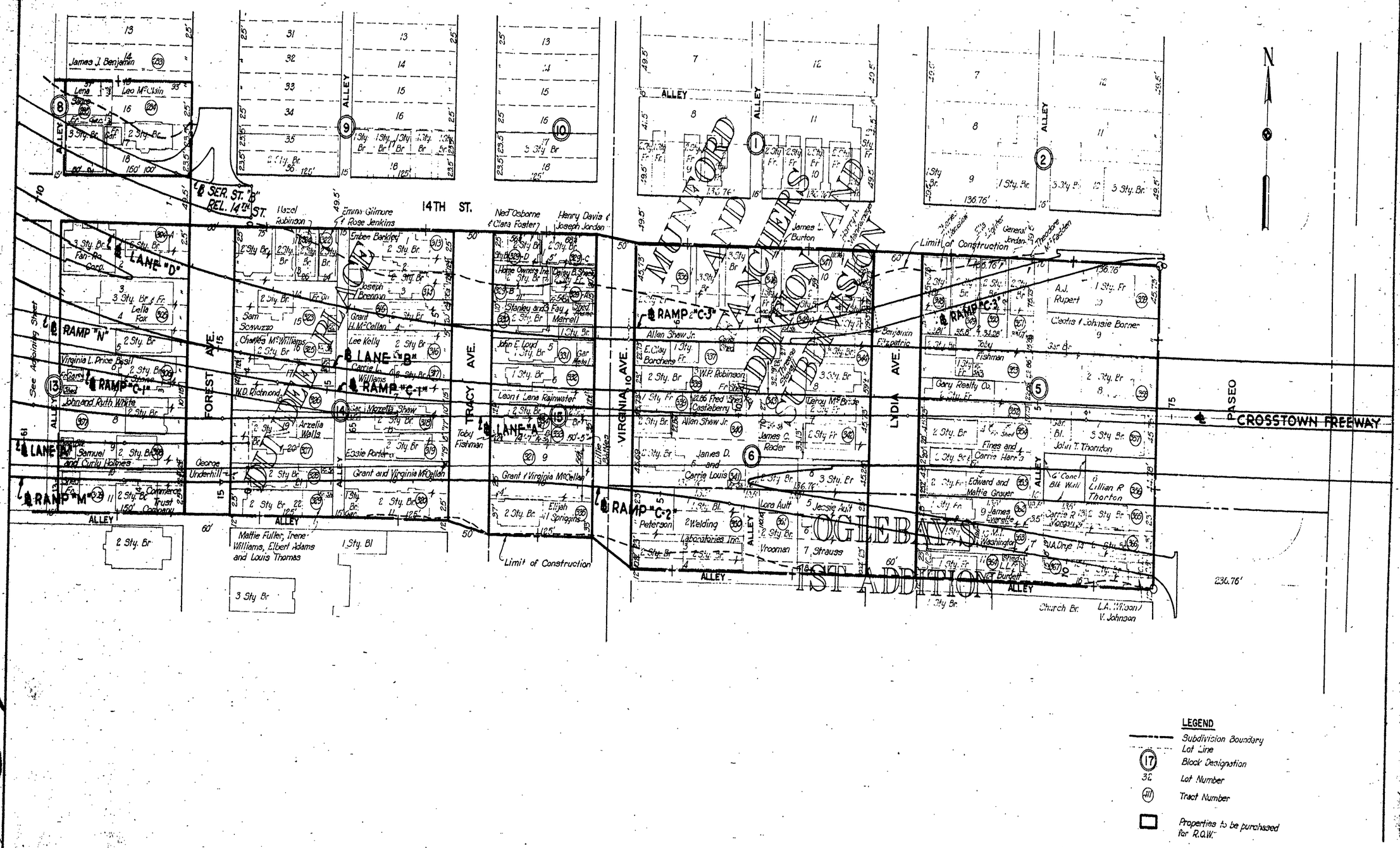
ALLEY
AVE
ST
RAMP "A"
RAMP "B"
RAMP "C"
RAMP "D"
RAMP "E"
RAMP "F"
LANE "A"
LANE "B"
LANE "C"
LANE "D"
LANE "E"
LANE "F"
LANE "G"
LANE "H"
LANE "K"
Const. Easement
See Adjoining Sheet
Limit of Construction
Limit of Cleared Area
Limit of Concrete
Limit of Asphalt
Limit of Gravel
Limit of Dirt
Limit of Sod
Limit of Seeding
Limit of Mulching
Limit of Fencing
Limit of Guard Rail
Limit of Retaining Wall
Limit of Sidewalk
Limit of Curb
Limit of Gutter
Limit of Storm Sewer
Limit of Sanitary Sewer
Limit of Water Line
Limit of Gas Line
Limit of Electric Line
Limit of Telephone Line
Limit of Underground Cable
Limit of Overhead Wires
Limit of Poles
Limit of Trees
Limit of Shrubs
Limit of Flowers
Limit of Grass
Limit of Weeds
Limit of Rocks
Limit of Boulders
Limit of Stones
Limit of Gravel
Limit of Sand
Limit of Clay
Limit of Soil
Limit of Topsoil
Limit of Subsoil
Limit of Bedrock
Limit of Groundwater
Limit of Surface Water
Limit of Drainage
Limit of Erosion
Limit of Sedimentation
Limit of Pollution
Limit of Contamination
Limit of Hazardous Waste
Limit of Toxic Waste
Limit of Radioactive Waste
Limit of Nuclear Waste
Limit of Chemical Waste
Limit of Biological Waste
Limit of Medical Waste
Limit of Industrial Waste
Limit of Commercial Waste
Limit of Residential Waste
Limit of Agricultural Waste
Limit of Municipal Waste
Limit of Solid Waste
Limit of Liquid Waste
Limit of Gaseous Waste
Limit of Hazardous Waste
Limit of Toxic Waste
Limit of Radioactive Waste
Limit of Nuclear Waste
Limit of Chemical Waste
Limit of Biological Waste
Limit of Medical Waste
Limit of Industrial Waste
Limit of Commercial Waste
Limit of Residential Waste
Limit of Agricultural Waste
Limit of Municipal Waste

LEGEND
Subdivision Boundary
Lot Line
Block Designation
Lot Number
Properties to be purchased for R.O.W.
Parcel Designation
Buildings to be removed

SPECIAL PROVISIONS

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL SHEET NO.	SHEET NO.	TOTAL SHEETS
5	MO	I-70-1 (7)			
DIST. NO.		COUNTY			
4		JACKSON		I-70	

CROSSTOWN FREEWAY
14TH STREET INTERCHANGE



LEGEND

- Subdivision Boundary
- Lot Line
- (17) Block Designation
- 32 Lot Number
- (411) Tract Number
- Properties to be purchased for R.O.W.

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY NEW YORK
DATE 11-7-56

DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	I-70-1(7)	59		
DIST. NO.		COUNTY		ROUTE NO.	SEC.
4		JACKSON		I-70	

CROSSTOWN FREEWAY

N

GASTES AND KENDALL 1ST ADDITION

MOODY'S SUBDIVISION

BRIGHAM'S 3RD ADDITION

14TH. ST.

PASEO

VINE ST.

HIGHLAND AVE.

WOODLAND AVE.

MICHIGAN AVE.

EUCLID AVE.

ALLEY

Proposed Wall

Limits of Construction

Isadore and Minnie Boxer

Wheatly

Provident Hospital

Association Inc.

Leon H. Dennis

Isadore and Minnie Boxer

Goldie and Donald Jackson

Mae Wall

2 Stone Wall

Stone wall

Conc. Block Wall

Realty Corporation

1 Sty. Br. & Conc. Blk. Service Sta.

Conc. Blk. Shed

Lean to

1 Sty. Conc. Block

2 Sty. Brick

1 Sty. Conc. Blk. Garage

Chimney

Water Tank

Vacated

Limits of Construction

Isadore & Minnie Boxer

Ruby W. Sykes

Oscar Stella Tenn

Pearl M. Debney

Clarence Bratton

Ella M. Steering

John J. Hill

Francie Turner

George Haynes

Home Owners Trp.

Josephine S. Sanditz

Henry and Mayme Bahl

Gillpatric

Laundry

Company

Frank Moffett

William & Rose Milder

L.P. Butler

Levi and Bessie Bryant

J.D. McGrath

H.S. Burns

Alva K. & Anna B. Richards

W. Stewart

William J. & Esther Rushing

Nellie Owns

Isadore and Minnie Boxer

Earnest & Emma Lansdown

C.T. Freeman

St. Marks Baptist

Mylie Williamson

Church

Scaffolding

Shed

Con. Blk.

Frame Garage

Frame Smith

Frame Alice

Frame Y.M. Walsh

Frame

Shed

Con. Blk.

Frame

Brick

Frame

Con. Blk.

Frame

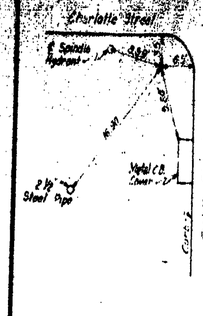
Brick

Frame

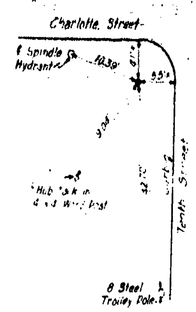
Brick

Frame

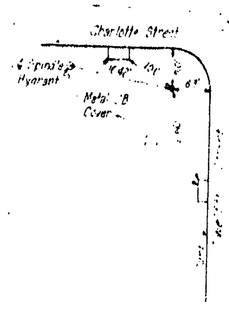
Brick



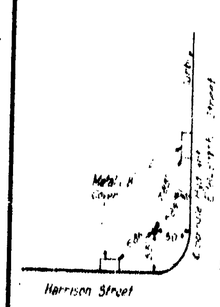
Point Δ 1



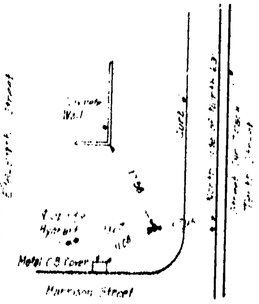
Point Δ 2



Point Δ 3



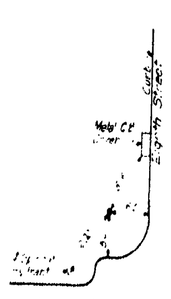
Point Δ 10



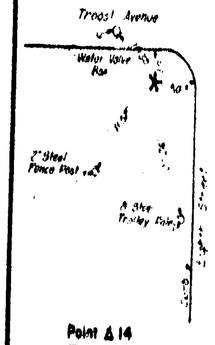
Point Δ 11



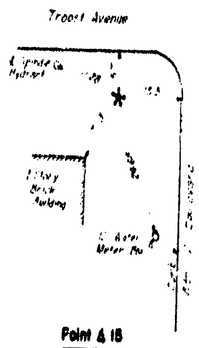
Point Δ 12



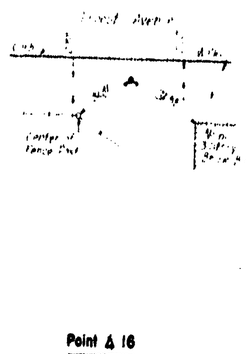
Point Δ 13



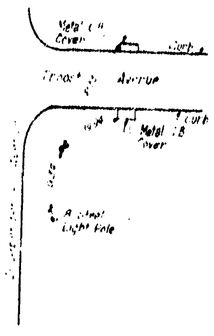
Point Δ 14



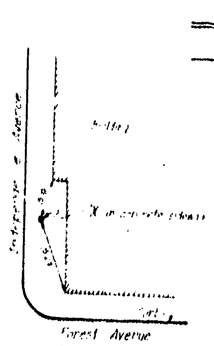
Point Δ 15



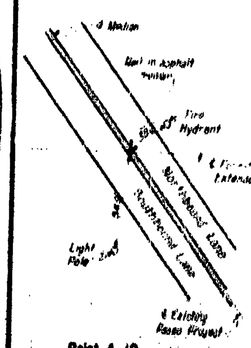
Point Δ 16



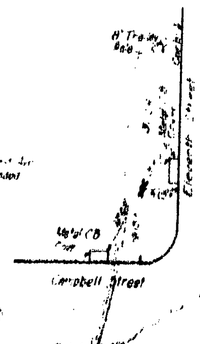
Point Δ 17



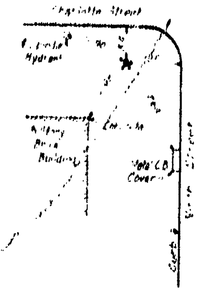
Point Δ 18



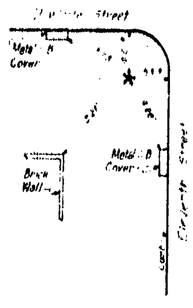
Point Δ 19



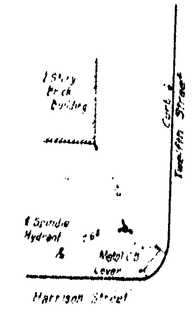
Point Δ 20



P.O.T. 9th



P.O.T. 11th



P.O.T. 12th

TRAVERSE POINT REFERENCES

'No Scale'

NOTES

- Denotes traverse points
All traverse points are tack in lead except where otherwise noted
Refer to Geometric Layout sheet for traverse data.

BENCH MARK SUMMARY

Point	Elev	Remarks
Δ 1	913.07	
POT 9th	926.17	
Δ 2	939.33	
POT 11th	900.69	
Δ 3	885.41	
BM #1	888.18	Cut in Sidewalk Top Hydrant N.W. corner 12th & Charlotte
POT 12th	898.07	
Δ 10	907.80	
Δ 11	933.36	
BM #5	956.37	Top Hydrant 0.25' W. of spindle N.E. Cor. 10th & Harrison
Δ 12	961.39	
Δ 13	934.29	
Δ 14	962.76	
Δ 15	936.78	
Δ 16	908.54	
Δ 17	880.37	
BM #6	879.73	PK Nail 17.06' S.W. of Δ 17
KCG #3	847.23	

HOWARD, NEEPLES, TUDOR & HEGENDORF
CONSULTING ENGINEERS
KANSAS CITY, MO. NEW YORK

EXISTING UTILITIES AND TRAVERSE DATA

2 MO 4 70 17 66
4 JACKSON 37 1
MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE

106

JACKSON
MIDTOWN FREEWAY
POLK STREET INTERCHANGE

INDEPENDENCE AVE.

CHARLOTTE ST.

SIXTH ST.

Existing Lane "B" (Paseo Project)

℄ Lane "C"

Existing Lane "A"

Existing Lane "E"

Existing Pav't Ends

℄ Lane "E"

Existing Lane "A"

Existing Pav't Ends

Existing Lane "D"

End of existing Pavement

Existing Ramp "C"

Service Street

℄ Lane "D"

HARRISON ST.

TROOST AVE.

ADMIRAL BLVD.

FOREST AVE.

℄ Relocated Admiral Blvd.

℄ Ramp "A"

CAMPBELL ST.

℄ Ramp "B"

Match Line

Match Line

See Adjoining Sheet

See Adjoining Sheet

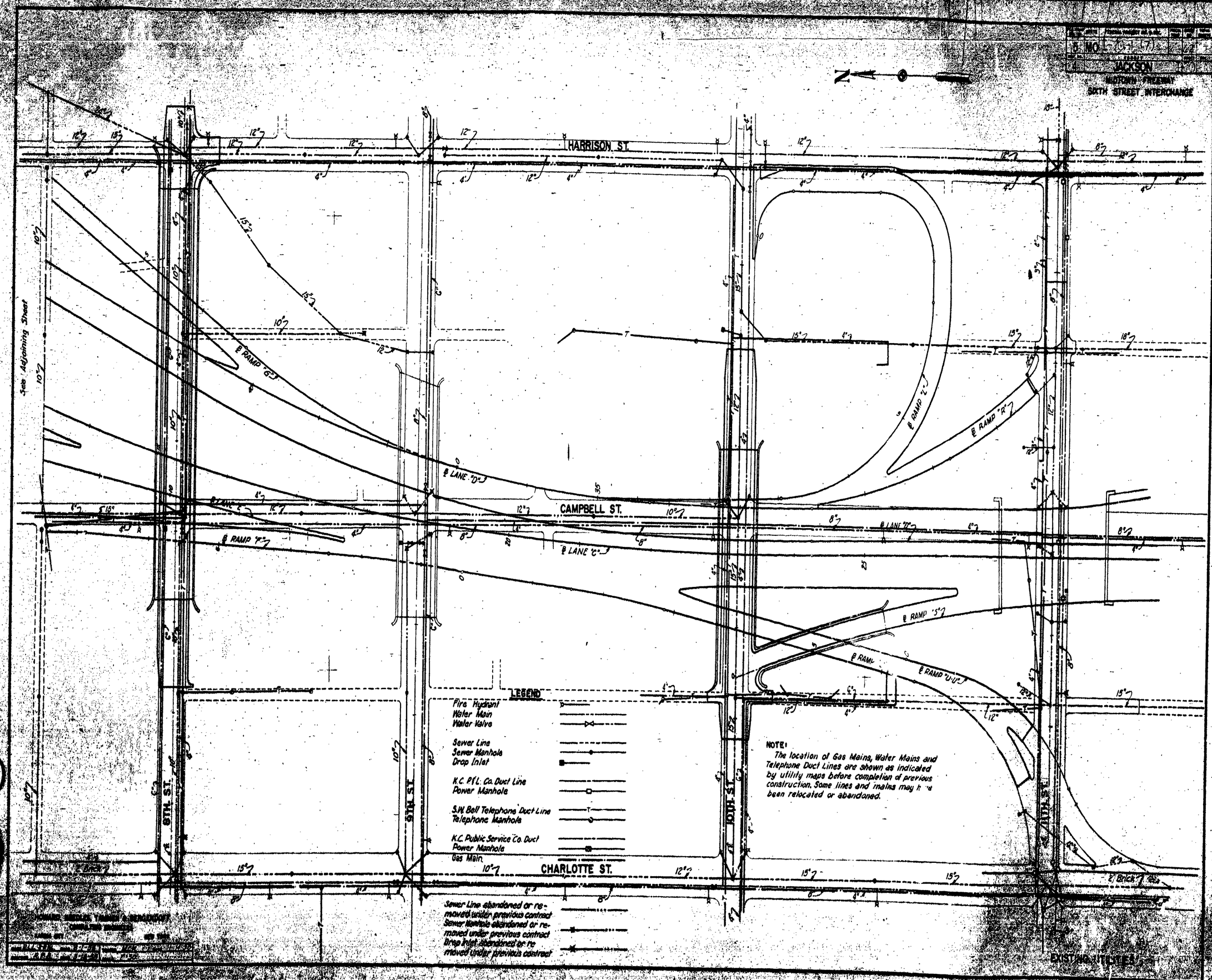
N

LEGEND

Fire Hydrant
Water Main
Water Valve
Sewer Line
Sewer Manhole
Drop Inlet
S.W. Bell Telephone Duct Line
Telephone Manhole
Gas Main
Sewer line abandoned or removed under separate contract
Sewer Manhole abandoned or removed under separate contract
Drop Inlet abandoned or removed under separate contract

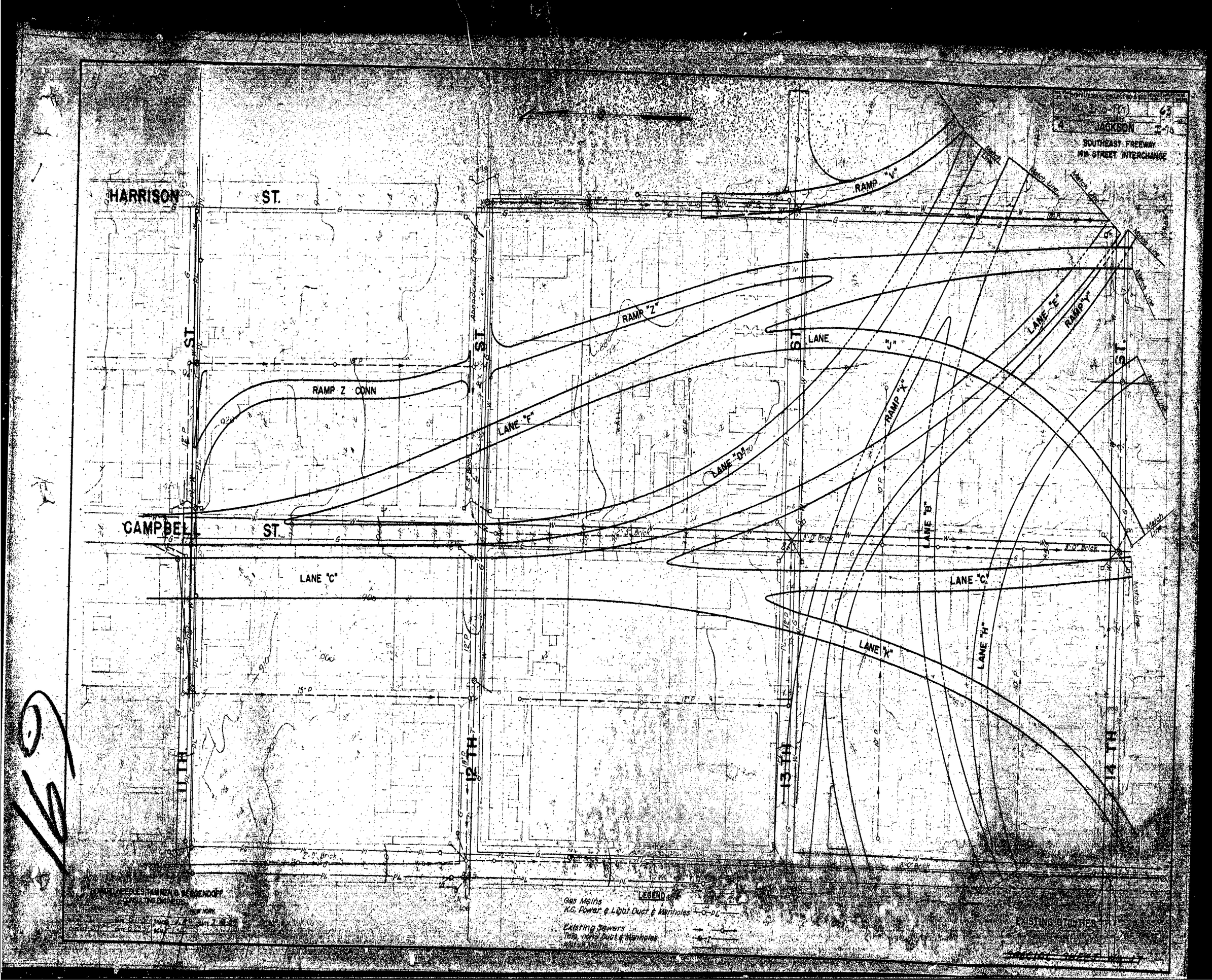
NOTE:
The location of Gas Mains, Water Mains and Telephone Duct Lines are shown as indicated by Utility Mains before completion of Construction. Some lines and mains may have been relocated or abandoned.

EXISTING UTILITIES

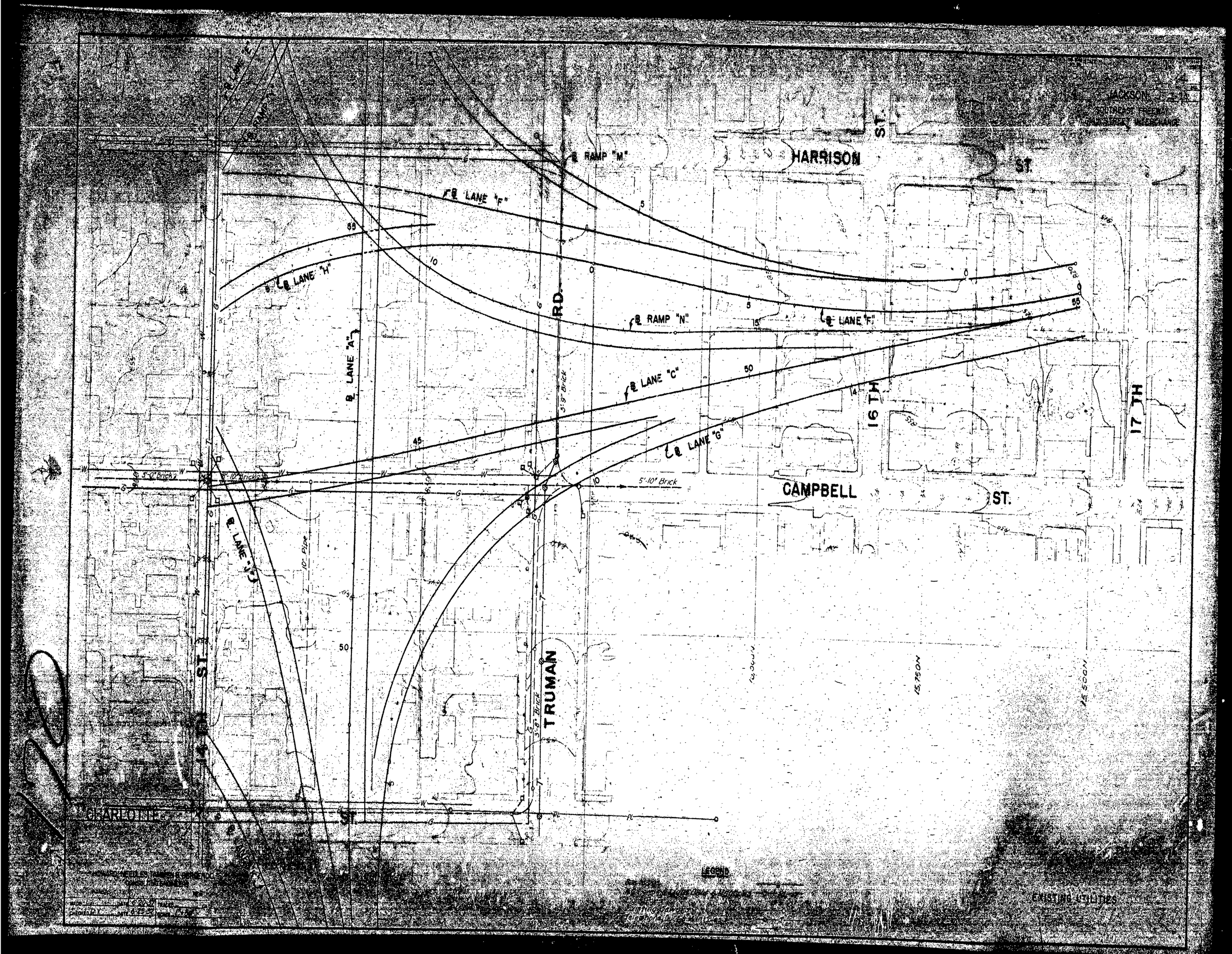


JACKSON
MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE
HARRISON ST.
CAMPBELL ST.
CHARLOTTE ST.
8TH ST.
9TH ST.
10TH ST.
11TH ST.
See Adjoining Sheet
℄ RAMP "G"
℄ LANE "D"
℄ LANE "C"
℄ RAMP "F"
℄ RAMP "L"
℄ RAMP "R"
℄ RAMP "S"
℄ RAMP "U-U"
LEGEND
Fire Hydrant
Water Main
Water Valve
Sewer Line
Sewer Manhole
Drop Inlet
K.C. P&L. Co. Duct Line
Power Manhole
S.W. Bell Telephone Duct Line
Telephone Manhole
K.C. Public Service Co. Duct
Power Manhole
Gas Main
Sewer Line abandoned or removed under previous contract
Sewer Manhole abandoned or removed under previous contract
Drop Inlet abandoned or removed under previous contract
NOTE:
The location of Gas Mains, Water Mains and Telephone Duct Lines are shown as indicated by utility maps before completion of previous construction. Some lines and mains may have been relocated or abandoned.
EXISTING UTILITIES

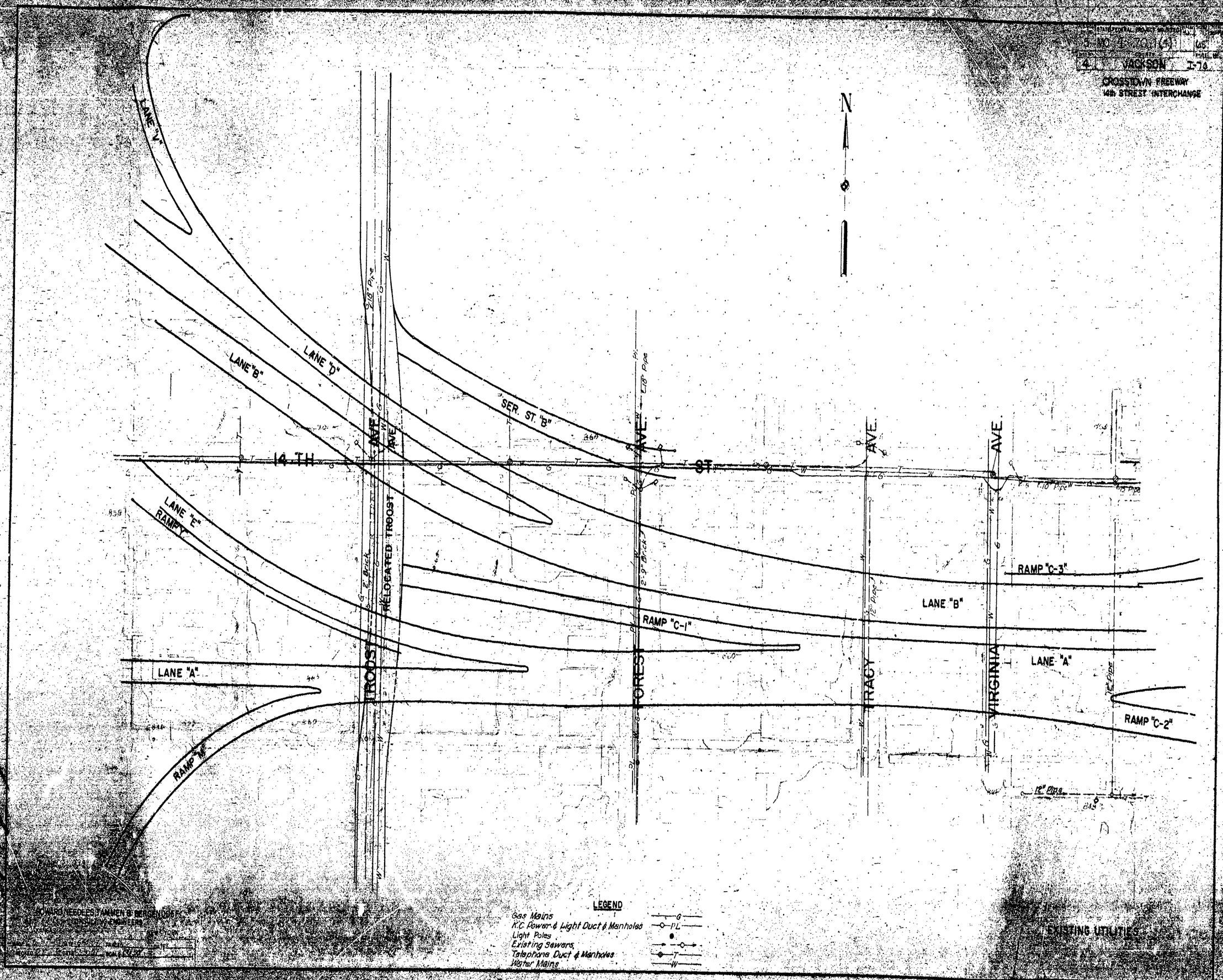
168



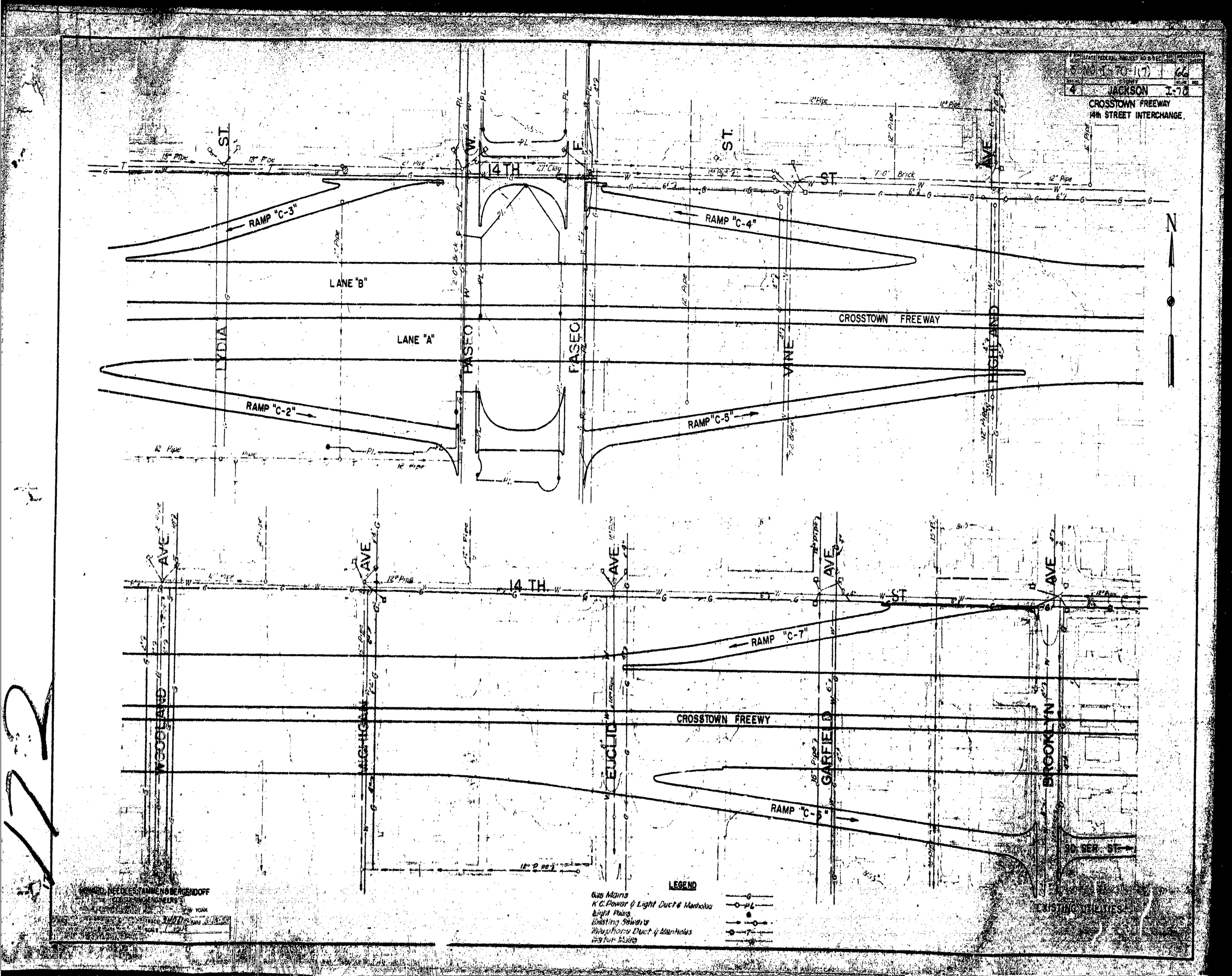
JACKSON
SOUTHEAST FREEWAY
14th STREET INTERCHANGE
HARRISON ST.
CAMPBELL ST.
RAMP "V"
RAMP "Z"
RAMP Z CONN
LANE "F"
LANE "D"
LANE "J"
LANE "E"
RAMP "Y"
RAMP "X"
LANE "B"
LANE "C"
LANE "K"
LANE "H"
11 TH
12 TH
13 TH
14 TH
Match Line
Abandoned Tracks
LEGEND
Gas Mains
K.C. Power & Light Duct & Manholes
Existing Sewers
Tele. Hand Duct & Manholes
Water Mains
EXISTING UTILITIES



JACKSON
SOUTHEAST FREEWAY
HARRISON
ST.
℄ RAMP "M"
℄ LANE "F"
℄ LANE "H"
℄ RAMP "N"
℄ LANE "F"
℄ LANE "A"
℄ LANE "C"
℄ LANE "G"
℄ LANE "J"
RD.
16TH
17TH
CAMPBELL
ST.
TRUMAN
14TH ST.
CHARLOTTE
ST.
5'-10" Brick
3'-9" Brick
3'-8" Brick
10" Pipe
15,750N
15,500N
LEGEND
EXISTING UTILITIES



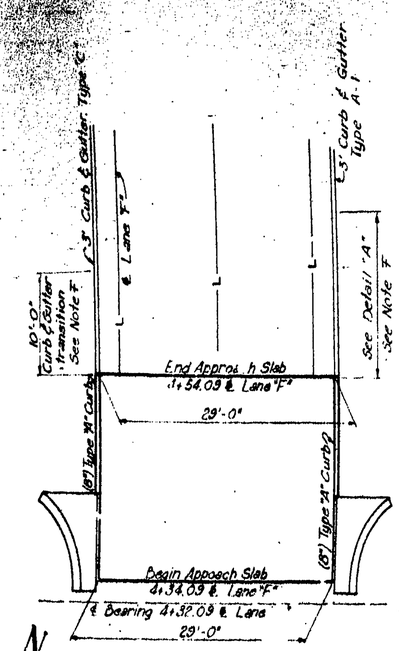
5 MO I-70 (4)
4 JACKSON I-70
CROSSTOWN FREEWAY
14th STREET INTERCHANGE
N
LANE "V"
LANE "D"
LANE "B"
SER. ST. "B"
14 TH ST.
AVE.
LANE "E"
RAMP "Y"
RELOCATED TROOST
TROOST
FOREST
TRACY
VIRGINIA
RAMP "C-3"
LANE "B"
RAMP "C-1"
LANE "A"
RAMP "C-2"
RAMP "M"
LEGEND
Gas Mains
K.C. Power & Light Duct & Manholes
Light Poles
Existing Sewers
Telephone Duct & Manholes
Water Mains
EXISTING UTILITIES

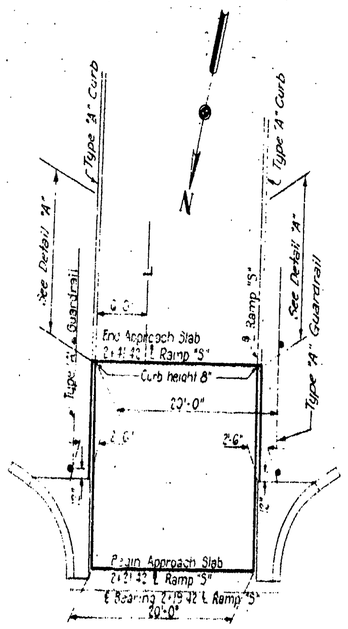


5 MO I-70-1(7) 66
4 JACKSON I-70
CROSSTOWN FREEWAY
14th STREET INTERCHANGE.
14TH ST.
RAMP "C-3"
RAMP "C-4"
LANE "B"
LANE "A"
CROSSTOWN FREEWAY
RAMP "C-2"
RAMP "C-5"
LYDIA
PASEO
VINE
HIGHLAND
N
14 TH ST
RAMP "C-7"
CROSSTOWN FREEWAY
RAMP "C-6"
WOODLAND
MICHIGAN
EUCLID
GARFIELD
BROOKLYN
30 SER. ST.
EXISTING UTILITIES
LEGEND
Gas Mains
K.C. Power & Light Duct & Manholes
Light Poles
Existing Sewers
Telephone Duct & Manholes
Water Mains
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS

FED. ROAD DIST. NO.	STATE	FEDERAL PROJECT NO. & SEC.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	I-70-1(7)		67	
DIST. NO.	COUNTY			ROUTE NO.	
4	JACKSON			I-70	

MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE



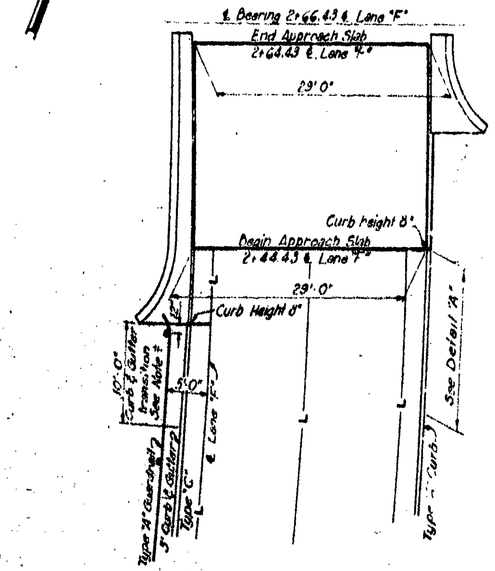


APPROACH SLAB
BRIDGE L 939-2
RAMP "S" OVER RAMP "U"

≠ NOTES:

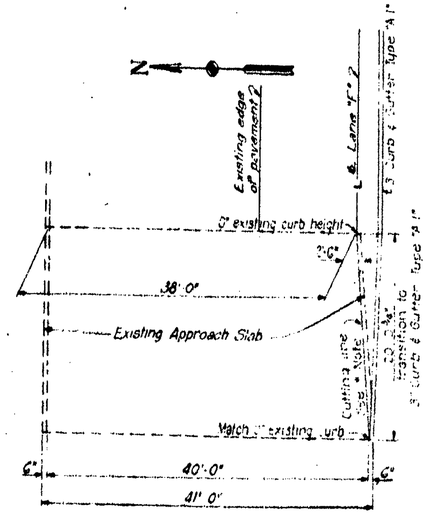
In the 10' Curb and Gutter transition on the low side, the curb height transitions uniformly from 9" to 8" and the slope of gutter is warped from 0.1 ft. per ft. normal to match slope and elevation of pavement at end of transition. On the high side the curb height transitions from 6" normal to 8" and the gutter maintains the same slope of pavement throughout the transition.

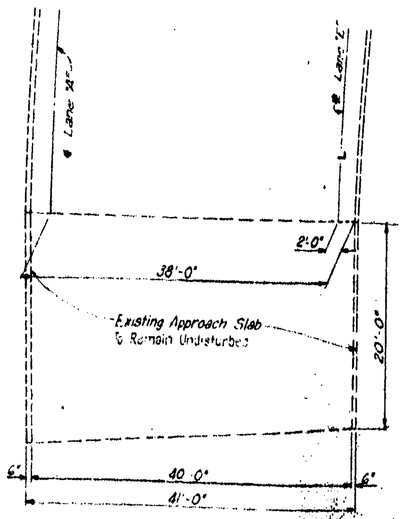
For approach slab details, see Missouri State Highway Commission Standard Drawing 15 A8-4.



APPROACH SLABS
BRIDGE L 935
LANE "F" OVER LANE "C"

* NOTE:
Steel exposed due to curb and approach slab removal shall be permitted to remain. Where new curb & gutter width permits, contractor shall weld #4 dowels to exposed steel. Concrete shall be sawed along removal line to form a neat and uniform edge.





APPROACH SLAB MODIFICATION DETAILS
EXISTING CHARLOTTE STREET OVERPASS

NOTE:
Payment for approach slab modification will be considered as covered by other items, except that curb and gutter transitions will be paid at the price bid for 3' Curb and Gutter.

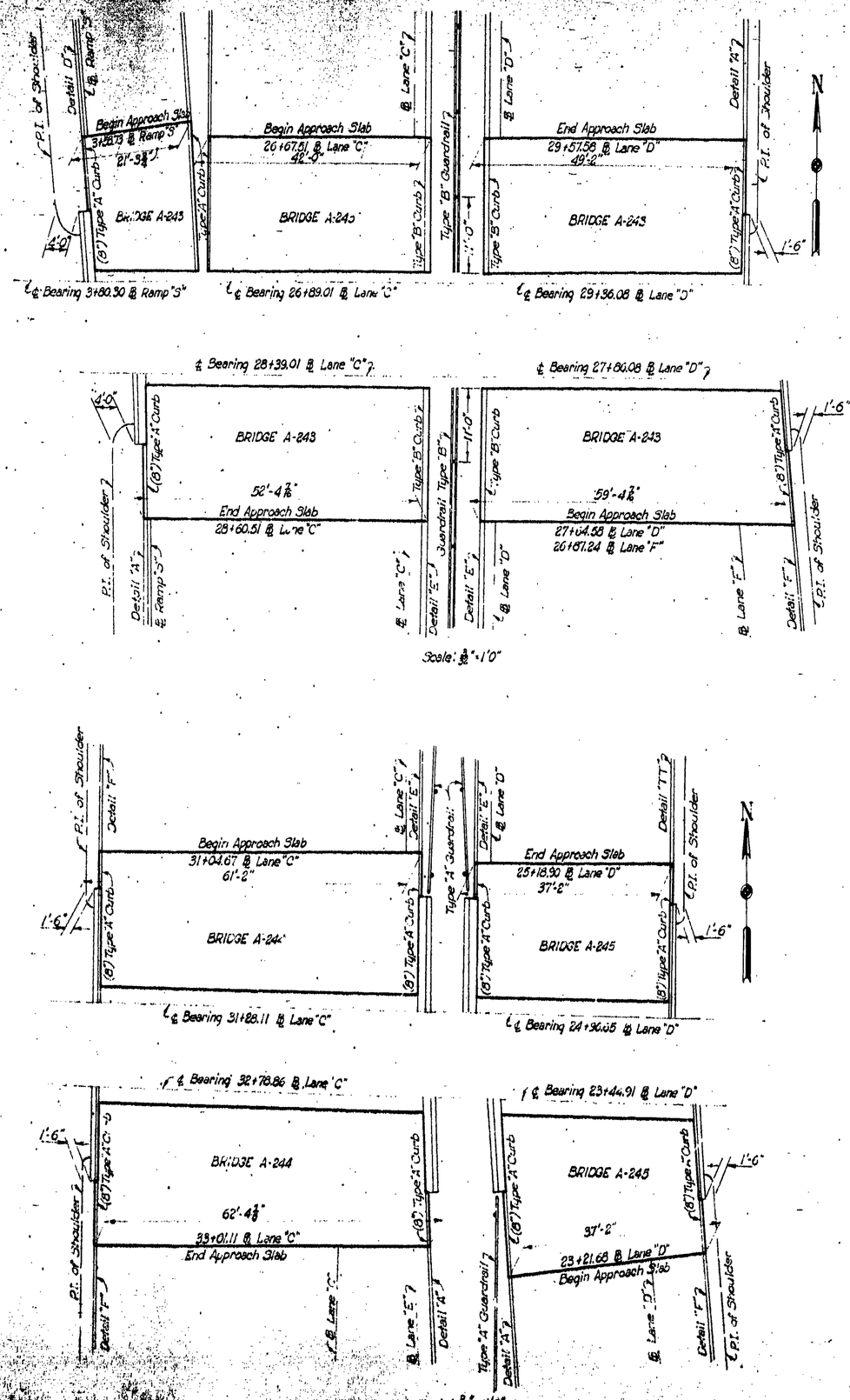
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
KANSAS CITY, NEW YORK

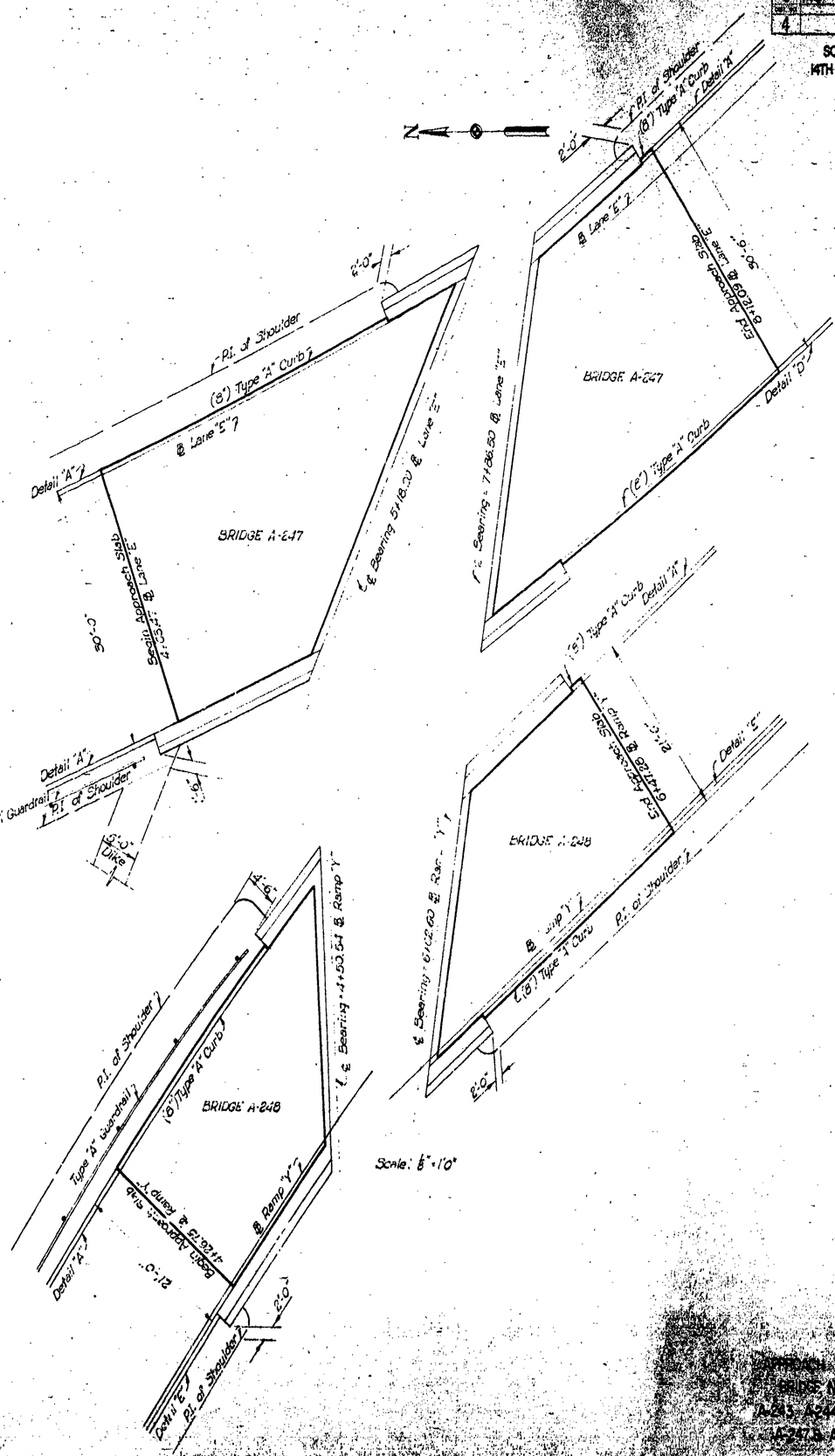
APPROACH SLABS

123

5	MQ I-70-1 (7)	1	18
4	JACKSON	1-70	

SOUTHEAST FREEWAY
14TH STREET INTERCHANGE



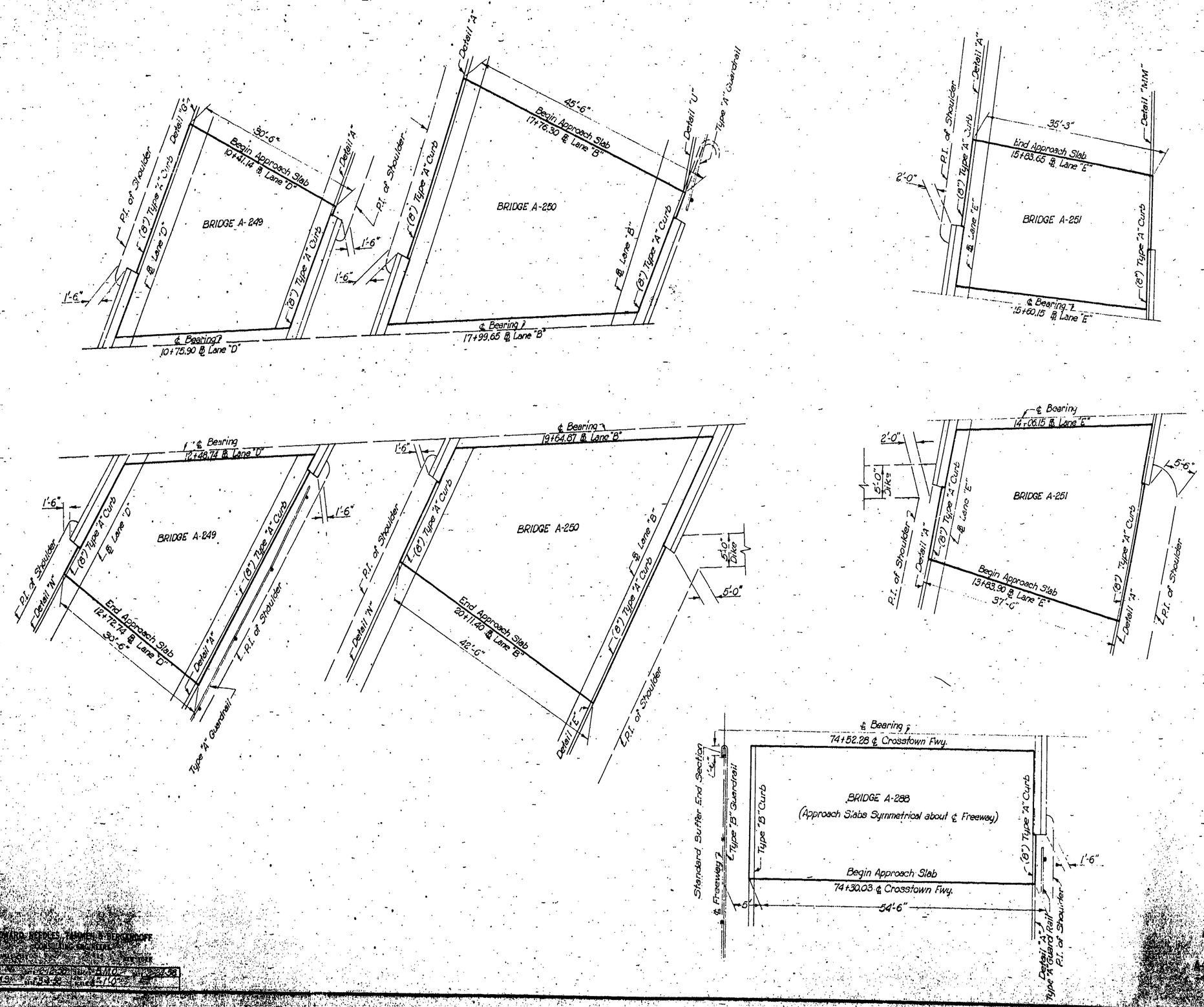


APPROACH SLABS
BRIDGE NOS.
A-243, A-244, A-245
A-247 & A-248

RICHARD HEEDE ERDMAN & KERSENBROCK
CONSULTING ENGINEERS
ERMA (A.I.A.) Dec. 1-16-69 Rev. 3-25-70
Rev. 2-14-69 Apr. Stamp

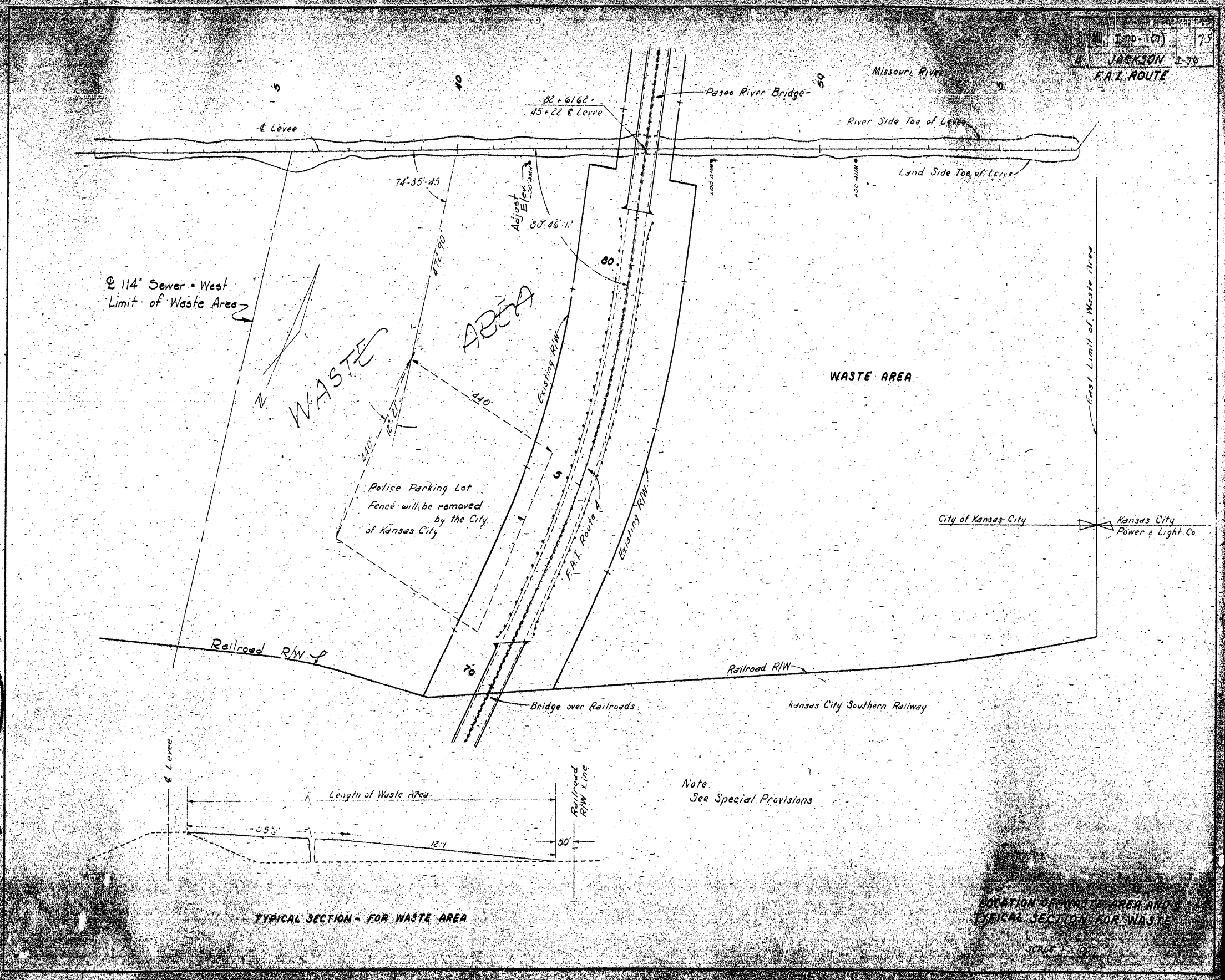
5	MO I-70-1(7)		
4	JACKSON	I-70	

SOUTHEAST FREEWAY
14TH STREET INTERCHANGE



HOWARD NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS

APPROACH SLABS
BRIDGE NO'S
A-249, A-250, A-251, A-288



I-70-1(7)
75
JACKSON I-70
F.A.I. ROUTE
Missouri River
Paseo River Bridge
82 + 61.62 = 45 + 22 ℄ Levee
℄ Levee
River Side Toe of Levee
Land Side Toe of Levee
74°-35'-45
Adjust Elev.
80°-46'-12
80
℄ 114" Sewer - West Limit of Waste Area
WASTE AREA
Existing R/W
440'
12°-21'
Police Parking Lot
Fence will be removed by the City of Kansas City
F.A.I. Route 4
Existing R/W
WASTE AREA
Fast Limit of Waste Area
City of Kansas City
Kansas City Power & Light Co.
Railroad R/W
Railroad R/W
Bridge over Railroads
Kansas City Southern Railway
℄ Levee
Length of Waste Area
Railroad R/W Line
12:1
50'
Note
See Special Provisions
TYPICAL SECTION - FOR WASTE AREA
LOCATION OF WASTE AREA AND TYPICAL SECTION FOR WASTE
SCALE 1" = 100'

NOTE - Existing Chain Link Fence around Police Parking Lot will be removed by the City of Kansas City.

STATE	DIST.	COUNTY	PROJECT NO.	SHEET NO.	TOTAL SHEETS
MO	5	JACKSON	I-70-1(7)	7R	

MIDTOWN FREEWAY
SIXTH STREET INTERCHANGE

POLICE PARKING LOT

CURVE DATA

①	②
Q_c = 3°00'00"	D =
R_c = 1909.86'	R = 238.00'
Δ = 21°35'00"	Δ = 100°52'00"
L_s = 200.00'	L = 419.00'
L_c = 519.44'	T = 288.05'
T_s = 464.19'	
E_s = 35.27'	

N

100°52'00"

P.T. Sta. 6+36.5 ℄ "B"

Sta 7+75

Sta. 9+96.5 ℄ "B"

℄ Future River Front Road

Control Elev. 754

Note:
7,262 Cu. Yds. of Embankment to be placed within Loop Area generally to the Contour and Control Elevations shown hereon. This Quantity is in addition to the 68,569 Cu Yds. of Embankment shown on the Cross Sections.

Sta. 73+62 - Lt.
Build (2) 15'x70'
See "X" Sect.
Incl. 2 Collar Conn

P.C. Sta 2+17.5 ℄ "B"

APPROXIMATE LIMIT OF WORK

Control Elev. 754

Toe of Slope as shown on Cross Sections

Cross Section Match Line

Cross Sections referenced to ℄ "B"

℄ EXPRESSWAY

Cross Sections referenced to ℄ Expressway

Limit of Work

PASEO BRIDGE

MISSOURI RIVER LEVEE

SOUTH VIADUCT

T.S. Sta. 71+71.71

N 3°46'20" E 397'

S.C. Sta. 73+71.71

℄ Brg. Sta. 71+09.66

Sta 75+67 Expressway

101°25'00"

81°08'30"

107'

Limit of Work

Sta. 73+80 - Rt.
Build 12"x130'
(Len. includes 1-
See "X" Sect.

KANSAS CITY SOUTHERN R.R.

MISSOURI PACIFIC R.R.

Cross Section Match Line

Cross Sections referenced to ℄ "A"

B.M. - Elev. 756.64
U.S.E.D. monument R-376.25
Bronze cap in concrete monument located approximately 3600 ft. east of the A.S.B. Bridge, 6 ft. south of centerline south levee.

LEGEND
- Proposed Contours
- Existing Topo and Contours
- Toe of Slope and Top of Slope Lines

Match Line

LIMIT OF WORK Sta. 4+85

Match Line

EMBANKMENT DISPOSAL AREA

HOWARD NEEDLES TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK

Jan. 2-10-59

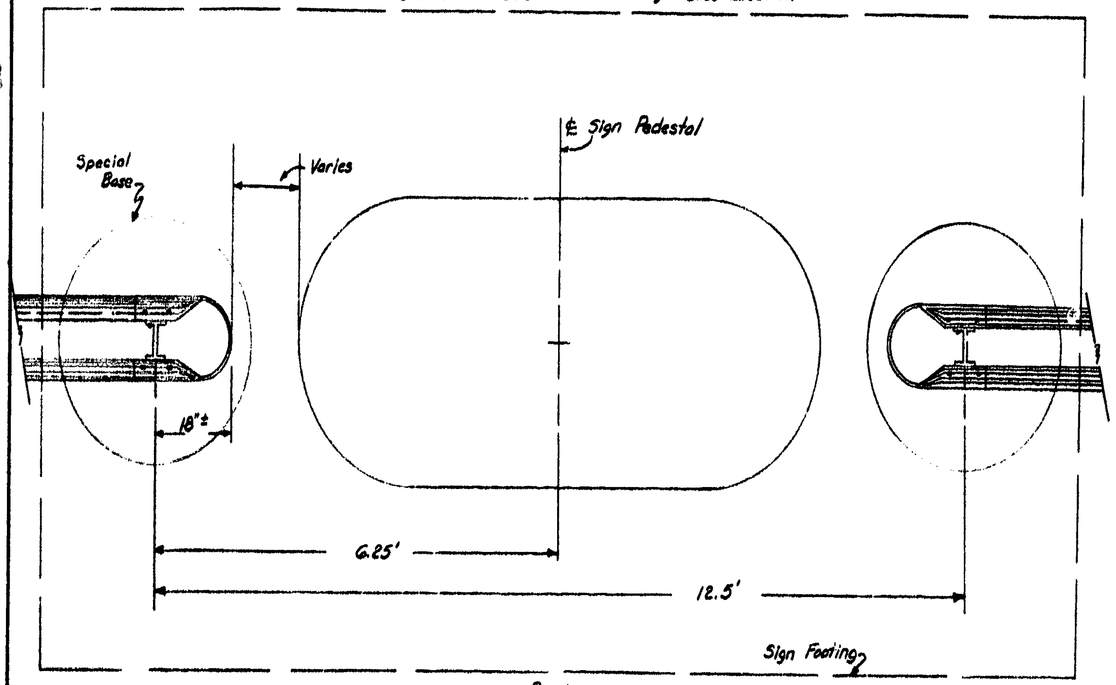
5	MO.	I-70-1 (7)	
4			

I-70-1 (12)
I-70-1 (11)
I-70-1 (13)
I-70-1 (3)

72

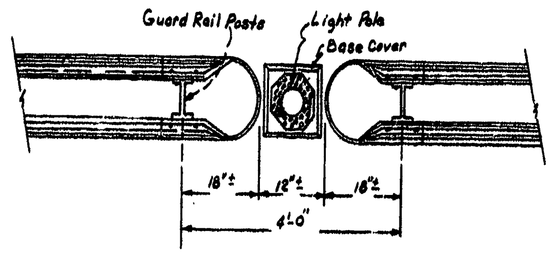
FINAL PLANS

Guard Rail Installation at Sign Base Location

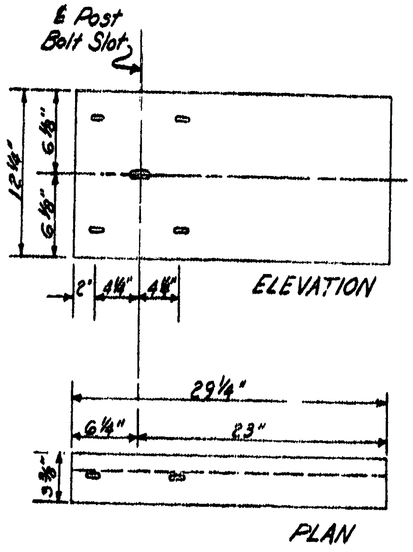


PLAN

LIGHT POLE LOCATION IN GUARD RAIL IN MEDIAN



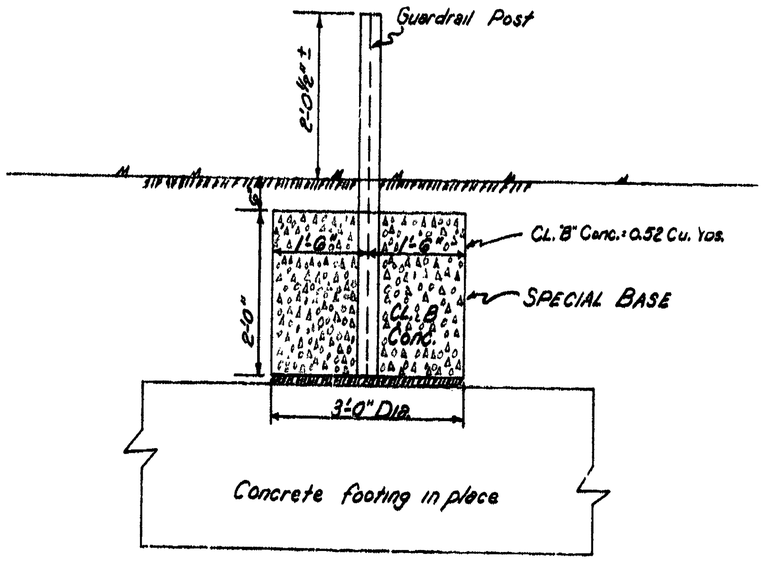
PLAN



ELEVATION

PLAN

SPECIAL END-SECTION



Note: See Standard Drawing 27A For Other Guardrail Data.

MISCELLANEOUS DETAIL SHEET

UTILITY

SHEET NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.	I-70-1(7)	75
	COUNTY	ROUTE	
	Jackson	I-70	

UTILITY

UTILITY

UTILITY

Scale, No Scale

Proposed Changes this Contract
See Sheet 5

Proposed Changes this Contract
See Sheets 6 & 6a

PROPOSED WATER MAIN CHANGES
6TH ST. INTERCHANGE

PROPOSED WATER MAIN CHANGES
12TH ST. INTERCHANGE

Existing Facility

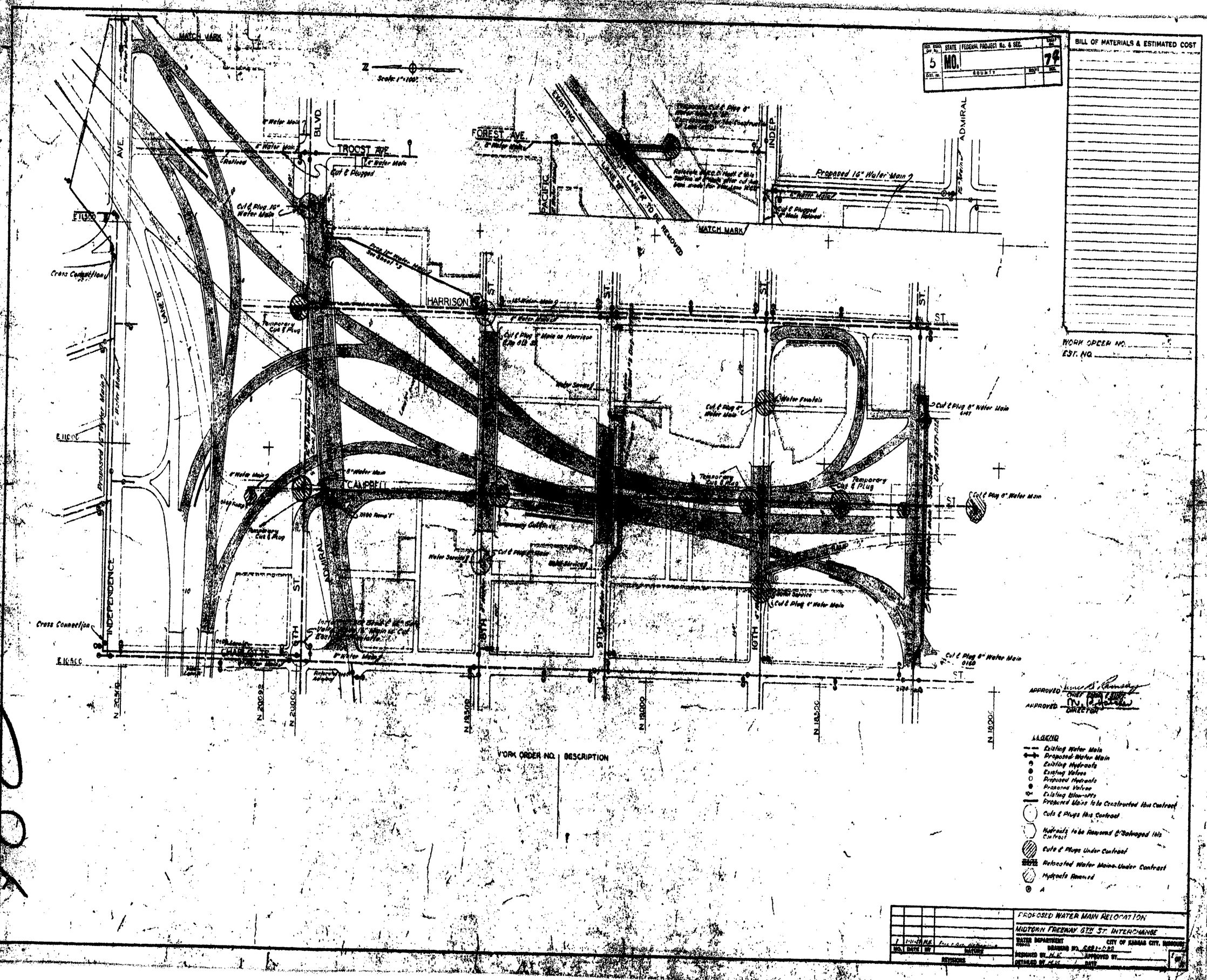
Relocated Facility

LEGEND
- Existing Water Main
- Proposed Water Main
- Existing Hydrant
- Existing Valve
- Proposed Valve
- Proposed Hydrant
- Existing Blow-off

PROPOSED MAIN CHANGES FOR MID-TOWN FREEWAY

UTILITY

179



FED. ROAD DIV. No.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.		74
DIST. NO.		COUNTY	SCOPE	SEC.

BILL OF MATERIALS & ESTIMATED COST

WORK ORDER NO.
EST. NO.

APPROVED [signature] CHIEF ENGR. & SUPT.
APPROVED [signature] DIRECTOR

LEGEND

- Existing Water Main
- Proposed Water Main
- Existing Hydrants
- Existing Valves
- Proposed Hydrants
- Proposed Valves
- Existing Blow-offs
- Proposed Mains to be Constructed this Contract
- Cuts & Plugs this Contract
- Hydrants to be Removed & Salvaged this Contract
- Cuts & Plugs Under Contract
- Relocated Water Mains Under Contract
- Hydrants Removed
- A

NO.	DATE	BY	NATURE
1	1-11-58	H.E.	[illegible]

REVISIONS

PROPOSED WATER MAIN RELOCATION

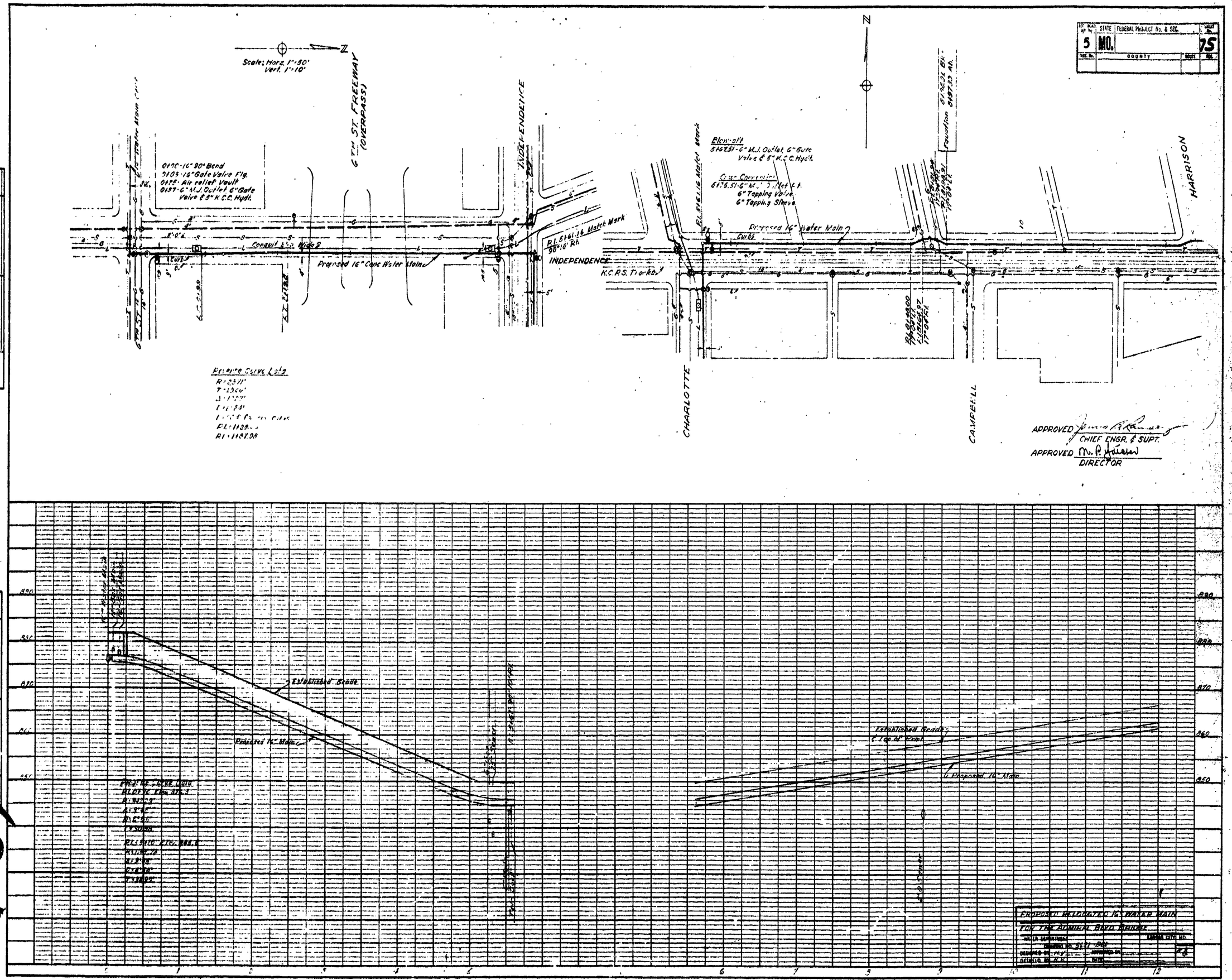
MIDTOWN FREEWAY 6TH ST. INTERCHANGE

WATER DEPARTMENT — CITY OF KANSAS CITY, MISSOURI

DRAWING NO. [illegible]

DESIGNED BY H.E. — APPROVED BY

DETAILED BY H.E. — DATE



REF. BLAD. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.		75
DIST. No.	COUNTY	ROUTE	SEC.

PLATE 1—PLAN—PROFILE O. P. R. & R. E.

FED. ROAD DIST. No.	STATE	FEDERAL PROJECT No. & SEC.	SHEET No.
5	MO.		70
DIST. No.	COUNTY	ROUTE	SHT.

PLAN — NOTE BOOK No. — DATE — BY — REVISED PLOTTED AS CONSTRUCTED AS STAKED CHECKED

PROFILE — NOTE BOOK No. — DRAWN BY — TRACED BY — CHECKED BY — STRUCTURAL DETAILS BY

N

Hawkins

Ex. Main 12"C.I. 1+78.67 Bk. 6+62.13 Ah.

P.I. 1+94.67 30°00' Rt.

Compound Bend 61°08'

16+39.30-8" Blow-off 4" Flg. Outlet Bottom Tee W/ Blind Flg. Tapped for Blow-off

Lane "B"

P.I. 30+13.29 76°39' Rt.

Compound Bend 75°39'

Independence

Forest Ave.

Closure

Cross Connection 14+40.28 - 6" Outlet Rt. - 6" Tapping Sleeve & Valve

14+57.48 - 12" Ball Valve

P.I. 18+19.74 Ac. 0+55.77 15°00' Rt.

P.I. 19+02.88 90°00' Lt.

Lane "C"

Lane "A"

Lane "D"

Ramp "C" & Service Rd.

P.I. 30+19.29 90°00' Lt.

P.I. 31+13.08 89°51' Rt.

Forest

Match Mark

16" Main 25+93.98

26+32.17 - 4" Flg. Outlet for Air-relief

26+88.95 - 12" Ball Valve

Admiral

16"x12" Reducer

Air-relief Vault

16"x16"x12" Tee

Conc. Blk.

Proposed 16" 12" Ball Valve 12" Steel Spool 8'-0" Lg. F.E.S.

16" Solid Steel

Existing 18"

DETAIL OF CONN. TO 16" MAIN

Ground Line

Back

Existing 18" Main

Existing 8" Main

Existing 6" Main

Existing 4" Main

Proposed 16" Main

Proposed 12" Main

Proposed 8" Main

Existing Gravel Road

Existing Concrete Road

Existing Brick Road

Existing Asphalt Road

Existing Gravel Road

Proposed 16" Main

Existing 8" Main

Existing 6" Main

Existing 4" Main

Existing 18" Main

Existing Concrete Road

Existing Brick Road

Existing Asphalt Road

Existing Gravel Road

Ground Line

Front To P.I.

Profile Curve Data

Al's Tan's Elev. Deflection

P.I. 1+94.67

P.I. 18+19.74

P.I. 19+02.88

P.I. 30+13.29

P.I. 31+13.08

Project for relocating water main for the Admiral Blvd. Bridge

Water Main

Kansas City, Mo.

Drawing No. 5A-1-606

Designed by A.K. Approved by

Drawn by Date

Checked by Date

PLATE 1—PLAN—PROFILE O. P. R. 6 B. E.

THIS HAS BEEN MADE AND PRINTED IN U. S. A.

CHARLES BRUNING COMPANY, INC.

FED. ROAD DIV. NO.	STATE	FEDERAL PROJECT No. & SEC.	SHEET NO.
5	MO.		7
PROJ. NO.	COUNTY	ROUTE	NO.

STATION ON ℄ PIPE	COORDINATES NORTH	EAST
0-32.59	19,452.14	11,323.75
4+11.00	19,861.20	11,495.30
4+88.00	19,938.20	11,495.30
5+64.00	19,938.20	11,571.30
6+06.38	19,980.58	11,571.30

"Fittings on Proposed 12" Water Main

0-32.59-12"-22½ Bend
0-85-12" Gate Valve
4+11-12"-22½ Bend
4+88-12"-90° Bend
5+64-12"X12"X6" Tee
6" Gate Valve
5" K.C.C. Hyd.
5+64-12"-90° Bend
6+06-12"X12"X12" Tapping Sleeve
12" Tapping Valve

Scale: Horz. 1"=50'
Vert. 1"=10'

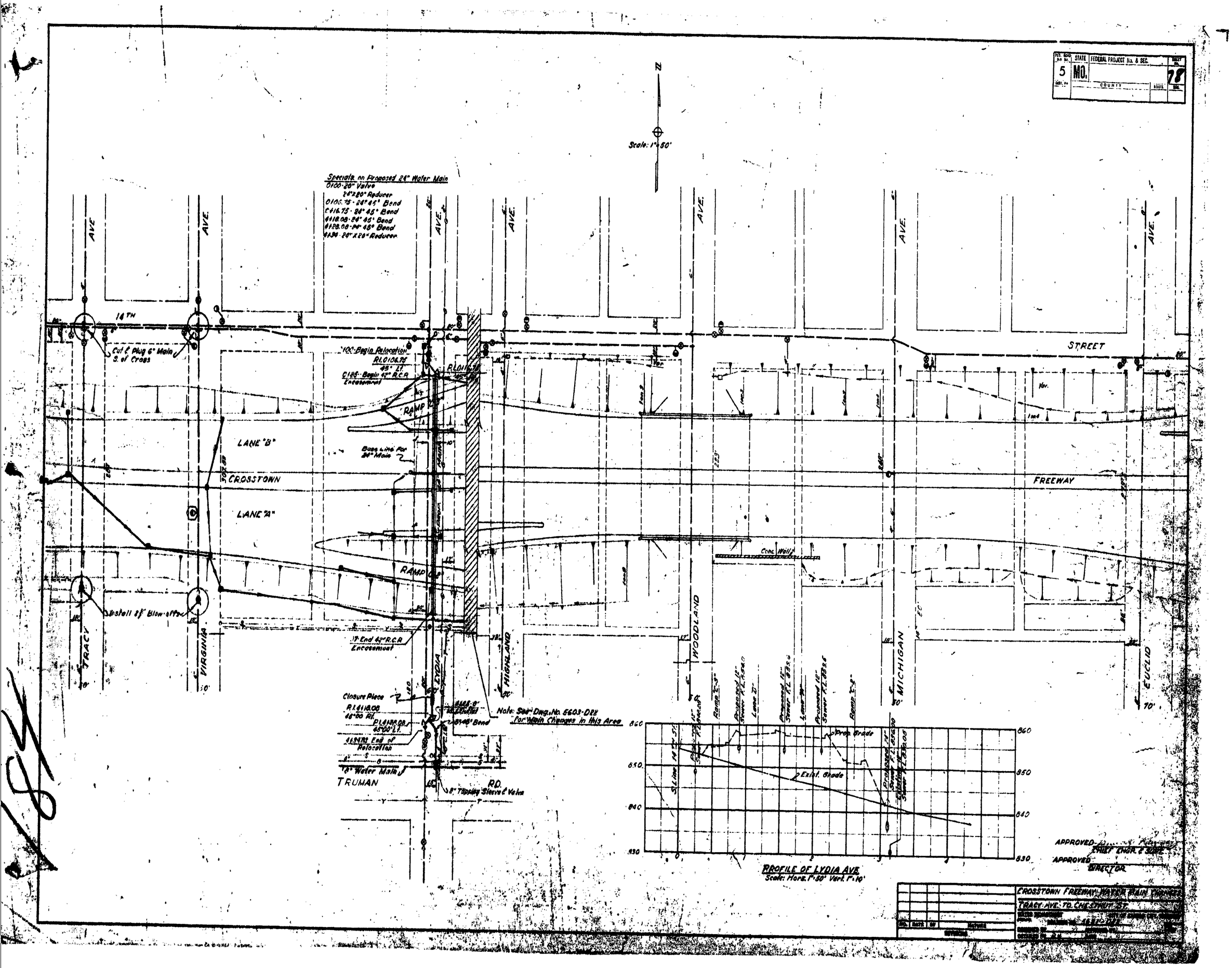
APPROVED _____ CHIEF ENGR. & SUPT.

APPROVED _____ DIRECTOR

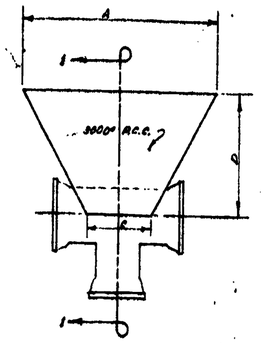
For Details Of Blocking, Blocks See Sheet "5"

PROPOSED 12" WATER MAIN RELOCATION

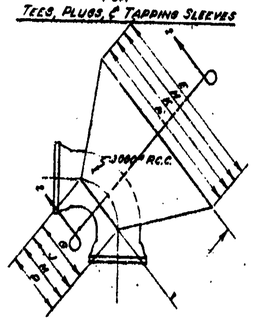
PROPOSED 12" WATER MAIN RELOCATION



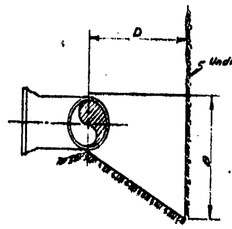
FED. ROAD DIV. No. 5
STATE MO.
FEDERAL PROJECT No. & SEC.
COUNTY
ROUTE
SHEET No. 78
Scale: 1"=50'
Specials on Proposed 24" Water Main
0+00-20" Valve
24"x20" Reducer
0+06.75-24" 45° Bend
0+16.75-24" 45° Bend
4+18.08-24" 45° Bend
4+28.08-24" 45° Bend
4+34-24"x20" Reducer
14TH
STREET
AVE.
Cut & Plug 6" Main S. of Cross
100-Begin Relocation
R.L.0+06.75
45° Lt.
0+25-Begin 42" R.C.P. Encasement
RAMP
LANE "B"
Base Line For 24" Main
CROSSTOWN
FREEWAY
LANE "A"
Conc. Wall
Install 2½" Blow-offs
17-End 42" R.C.P. Encasement
TRACY
VIRGINIA
LYDIA
HIGHLAND
WOODLAND
MICHIGAN
EUCLID
Closure Piece
R.L.4+18.08
45°00' Rt.
R.L.4+28.08
45°00' Lt.
4+34.85 End of Relocation
8" Water Main
TRUMAN
RD.
8" Tapping Sleeve & Valve
Note: See Dwg. No. 5603-D22 for Main Changes in this Area
Prop. Grade
Exist. Grade
860
850
840
830
PROFILE OF LYDIA AVE.
Scale: Horz. 1"=50' Vert. 1"=10'
APPROVED
CHIEF ENGR. & SUPT.
APPROVED
DIRECTOR
CROSSTOWN FREEWAY WATER MAIN CHANGES
TRACY AVE. TO CHESTNUT ST.



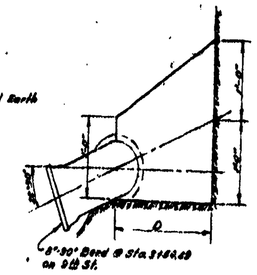
TYPICAL REACTION BLK.
FOR
TEES, PLUGS & TAPPING SLEEVES



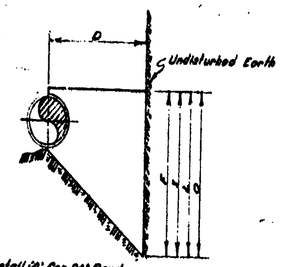
REACTION BLK'S.
FOR
HORZ. BENDS



SECTION 1-1

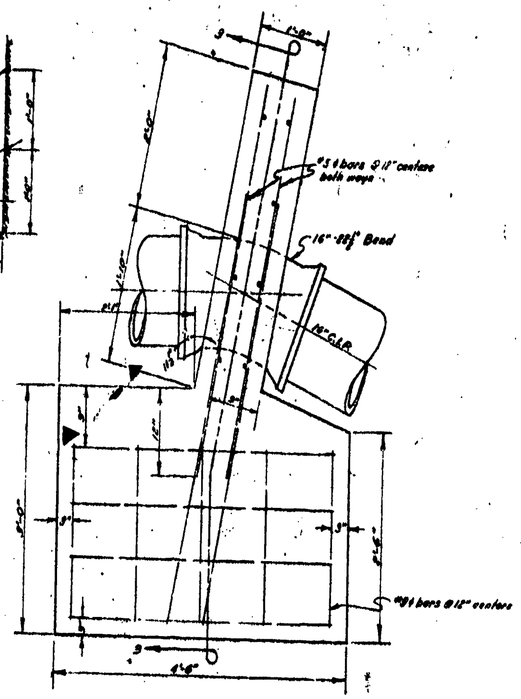


DETAIL 'A'



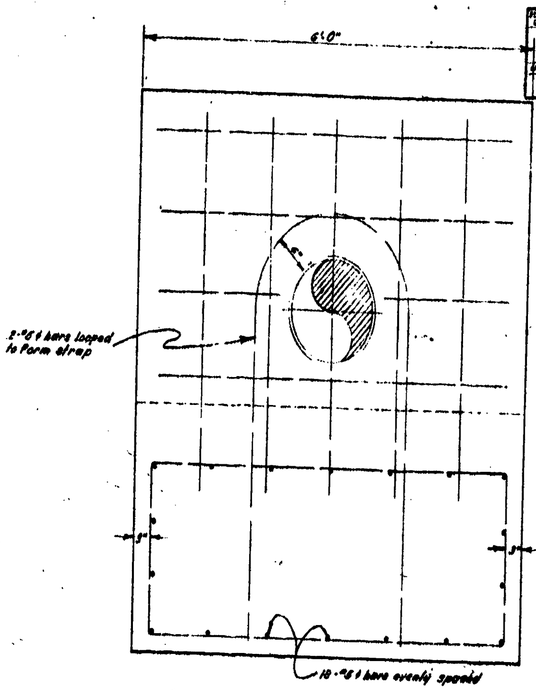
Note: See Detail 'A' for 90° Bend
that is to be Rotated 22½°

SECTION 2-2



ELEVATION

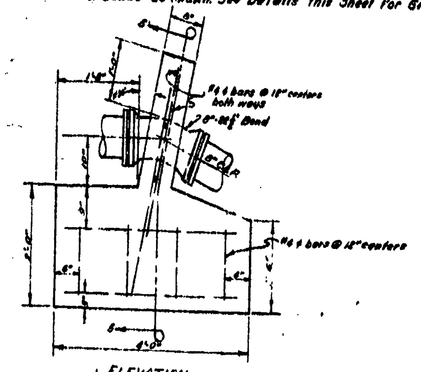
GRAVITY BLOCK FOR 16"-22½° BEND



SECTION 3-3

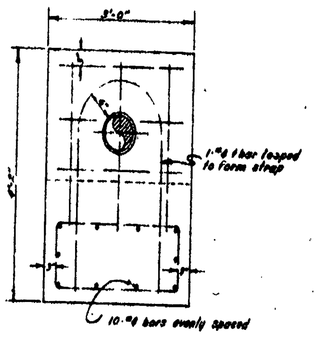
DEMENSIONS FOR REACTION BLKS.																
Pipe Size	TYPES OF SPECIAL															
	Plugs, Tees, & Tap. Sl.			90° Bend			45° Bend			22½° Bend			11½° Bend			
	A	B	C	E	F	G	H	I	J	K	L	M	N	O	P	D
8"	3'-0"	1'-6"	10"	3'-0"	2'-0"	10"	3'-0"	1'-0"	10"	3'-0"	1'-0"	10"	—	—	—	1'-6"
12"	3'-0"	3'-0"	1'-0"	5'-0"	3'-6"	1'-0"	3'-0"	2'-6"	1'-0"	3'-0"	2'-0"	1'-0"	—	—	—	1'-6"
16"	6'-3"	3'-3"	1'-6"	5'-3"	4'-3"	1'-6"	5'-0"	3'-6"	1'-6"	3'-3"	2'-0"	1'-6"	2'-0"	1'-0"	1'-5"	2'-0"
24"							7'-0"	5'-6"	2'-0"							9'-0"

Note: Demensions for Reaction Blocks of Bottom Vertical Bends are a Duplicate of the Horz. Bends as shown. See Details this Sheet for Gravity Blks.

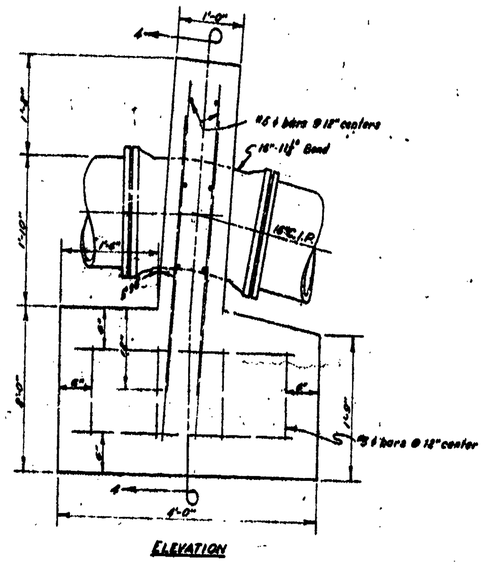


ELEVATION

GRAVITY BLOCK FOR 8"-22½° BEND

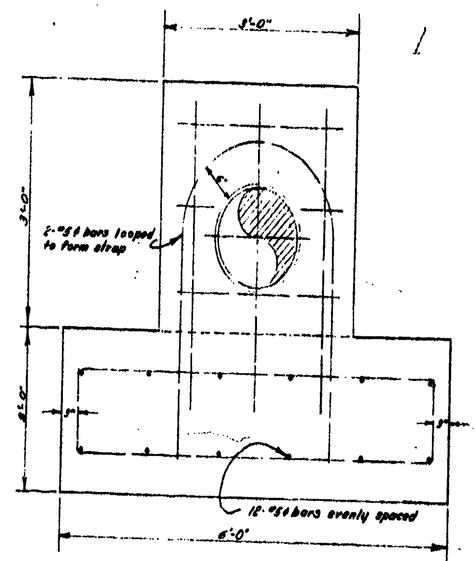


SECTION 5-5



ELEVATION

GRAVITY BLOCK FOR 16"-11½° BEND



SECTION 6-6

NO.	DATE	BY	NATURE OF REVISIONS

PROPOSED MAIN RELOCATIONS MID-TOWN

FREEWAY - BACKING BLK. DETAILS

WATER DEPARTMENT — CITY OF KANSAS CITY, MISSOURI

DRAWING NO. 4881-D28

DESIGNED BY A.K. — APPROVED BY

DETAILED BY A.K. — DATE

STATE MO. — FEDERAL PROJECT No. & SEC. — COUNTY — SHEET NO. 22

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.
5	MO.	I-70-1(7)		181/283
DIST. NO. 4	JACKSON		ROUTE I-70	

SCALE
1" = 5' Hor.
1" = 5' Vert.

SHEET 1 OF 4

FINAL PLANS

FINAL SURVEY
NOTE BOOK
NO.

DATE	BY	
4-28-72	RMP	FINAL
1-27-72	RMP	PRELIM.

APPROVED
TRACED
TEMPLATE
CHECKED

wt. conc. 1-27-72 TPS

Ex. Ditch
R.C.P.
El. 922.15
El. 916.66
R.C.P. #459
11'x12' Recp
El. 916.62
Cl. 3 Exc.
R#459 = 435 x 25 / 27 = 35.4 yd³ Pay = 35.5 yd³
Pipe Bedding = 63 x 4.33 x 0.67 / 27 = 7.4 yd³ Pay = 7.5 yd³
Total Pay = 43.0 yd³
D.I. #459 = 55 x 35 / 27 = 6.5 yd³ Pay = 6.5 yd³
R.C.P.
El. 922.15 El.
R.C.P. #423
48" x 18" Recp
El. 922.62
Cl. 3 Exc.
R#483 = 486 x 20 / 27 = 35.7 yd³ Pay = 35.5 yd³
D.I. #484 = 64 x 22 / 27 = 4.8 yd³ Pay = 5.0 yd³
D.I. #484 Extension = 8 x 1 / 27 = 1.3 yd³ Pay = 1.5 yd³
D.I. #484 Total Pay = 6.5 yd³
Ex. Ditch
Top of Inlet
Flow Line
Ex. Ditch
El. 922.62
Note:
Drop Inlet #484 ... El. 922.62
Leave 2" Ft. no change ... grade. Pay plus 1.33 yd³ Cl. 3 Exc.
Drop Inlet #487 ... El. 922.62
Nominal Blvd. 30' Rt., no change ... or Final grade. Pay plus Cl. 3 Exc.
Cl. 3 Exc.
D.I. #481 Required Ground elev. = 848.0'
Earth Fdn. elev. = 842.0'
Depth Cl. 3 Exc. = 6.0
Cl. 3 Exc. = 6.5 x 6 / 27 = 2.78 yd³
Pay = 6.0 yd³
R.C.P.
El. 916.66
R.C.P. #446
54" x 18" Recp
El. 916.62
Cl. 3 Exc.
R#446 = 488 x 12 / 27 = 11.6 yd³ Pay = 11.5 yd³
D.I. #446 = 28 x 20 / 27 = 5.2 yd³ Pay = 5.0 yd³
R.C.P.
El. 922.15
R.C.P. #447
36" x 18" Recp
El. 916.91
Existing 36" R.C.P. Storm Sewer in S. Ditch
Cl. 3 Exc.
R#447 = 488 x 20 / 27 = 6.1 yd³ Exc. = 6.0 yd³
Cl. 3 Exc.
D.I. #490 Plan Depth = 4'-6" Plan Cl. 3 Exc. = 9.0
Actual Depth = 4.9' Additional Cl. 3 Exc. = 5 x 2 x 0.9 / 27 = 1.65 yd³
Plan Cl. 3 = 9.0
Add. Cl. 3 = 1.0
Pay = 10.0 yd³
Cl. 3 Exc.
D.I. #495 Casted Junction Grade = 877.22
Earth Fdn. elev. = 868.81
Depth Cl. 3 Exc. = 2.92
Cl. 3 Exc. = 5.5 x 8 x 2.92 / 27 = 2.96 yd³
Pay = 4.0 yd³

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
1951 ROAD MAP MADE AND REVISED BY U. S. C. & G. S.
JOHNS DIETZGEN CO.

FED. ROAD DIV. No.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	PROJECT No.
5	MO.	I-70-1 (7)		182/263
DIST. No.	COUNTY		ROUTE	SEC.
4	JACKSON		I-70	

FINAL PLANS

SCALE
1" = 5' HORIZ.
1" = 5' VERT.

SHEET 2 OF 4

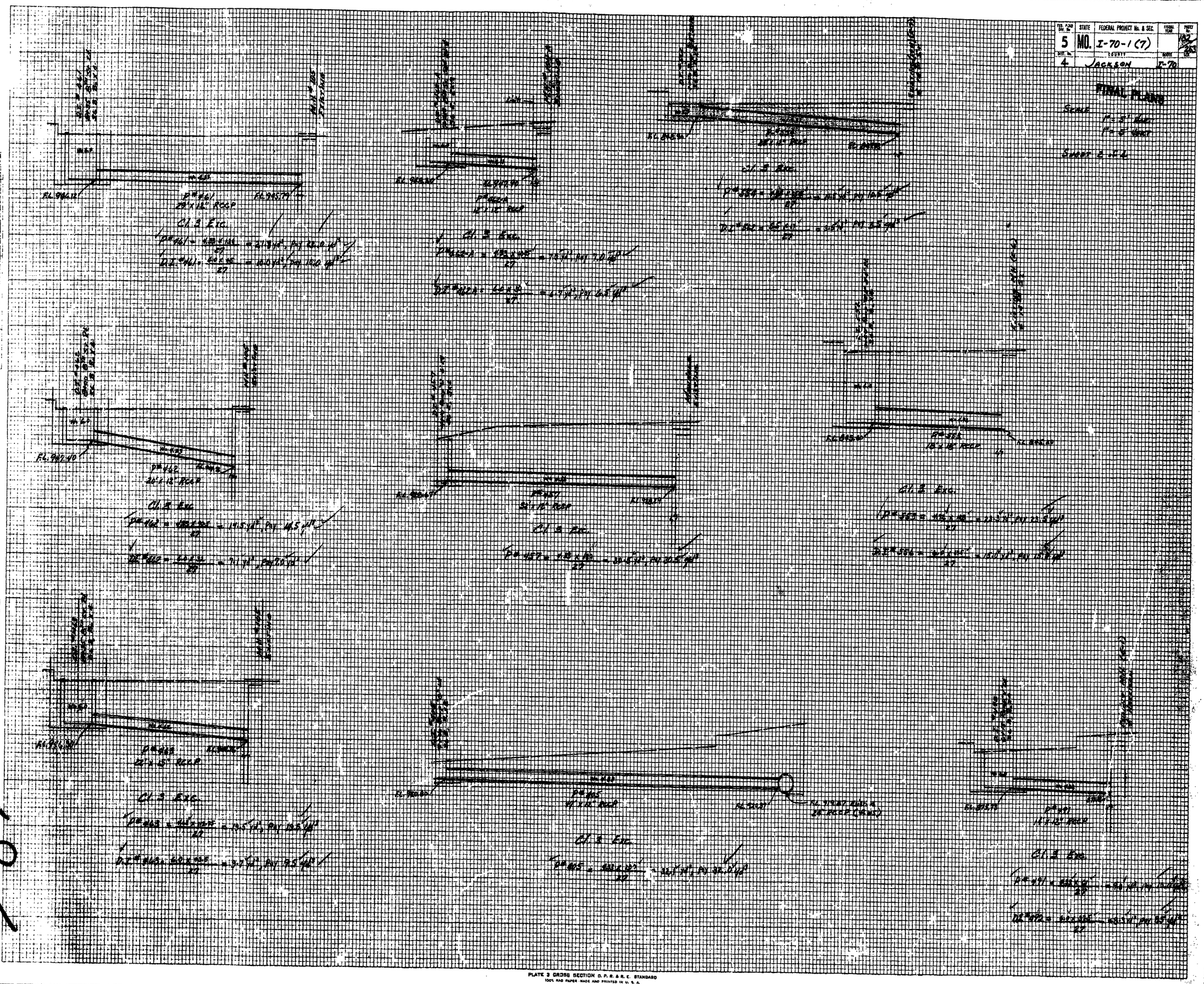


PLATE 3 CROSS SECTION D. P. R. & R. E. STANDARD
100% RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

FED. ROAD DIV. No.	STATE	FEDERAL PROJECT No. & SEC.	FISCAL YEAR	SHEET No.
5	MO.	I-70-1 (7)		183
SHEET No. 4		COUNTY JACKSON	ROUTE I-70	SEC.

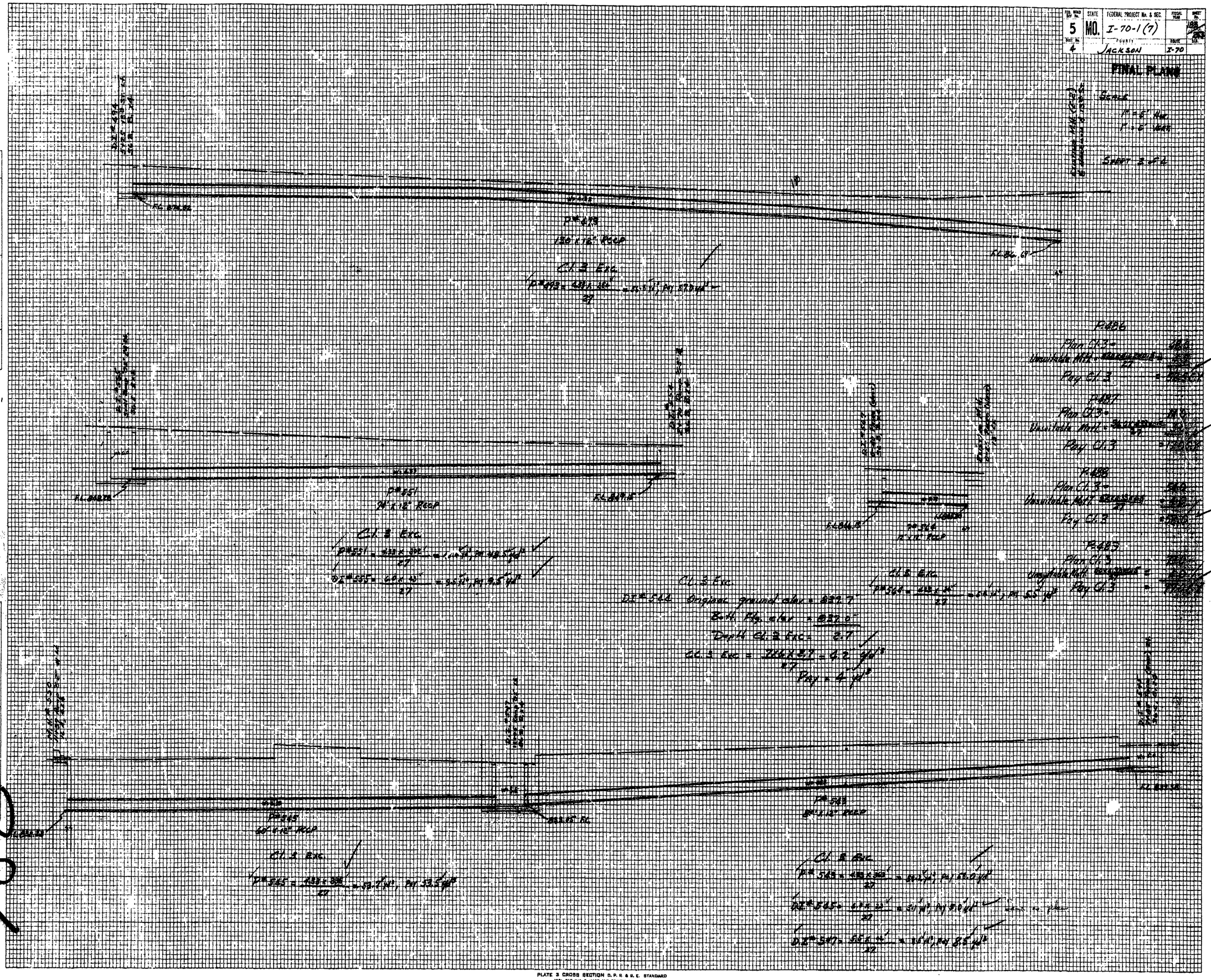


PLATE 3 CROSS SECTION D. P. R. & S. E. STANDARD
100% RAG PAPER MADE AND PRINTED IN U. S. A.
EUGENE DIETZGEN CO.

LIST OF STANDARD PLANS

PROJ.	SHEET
I-70-1(7) 2	184
CO. JACKSON	RTE. I-70

28B-2	(1-54)		
36A-21	(1-58)		
36B-3	(3-29-54)		
36C-2	(3-21-56)		
36E-11	(2-26-57)		
36G-4	(3-29-54)		
36T-3	(1-56)		
15AB-9	(3-57)		
15CN-2	(3-57)		
15CR-3	(10-58)		
15DE-9			
18E-20	(4-59)		
16A-3	(8-16-59)		
18D-1	DRAWN (7-58)		
24A-5	(4-22-58)		
24D-5			
25D-14	(4-59)		
26BB-7	(8-56)		
26A-10	(8-58)		
27A-20	(11-58)		
C110R7			

183

5	MO.	I-70-1(7)	
4	JACKSON	I-70	

PP~28¢29 CON
PP~54¢55 CON
SP~28¢29 FIN
SP~54¢55 FIN

RICHARD LEE HARRIMAN

LEO BOBRECKER

LAVERNE D. OWENS

HAROLD FLORA

IRENA MAE WHITLOW

WILLIAM J. BUSHMAN

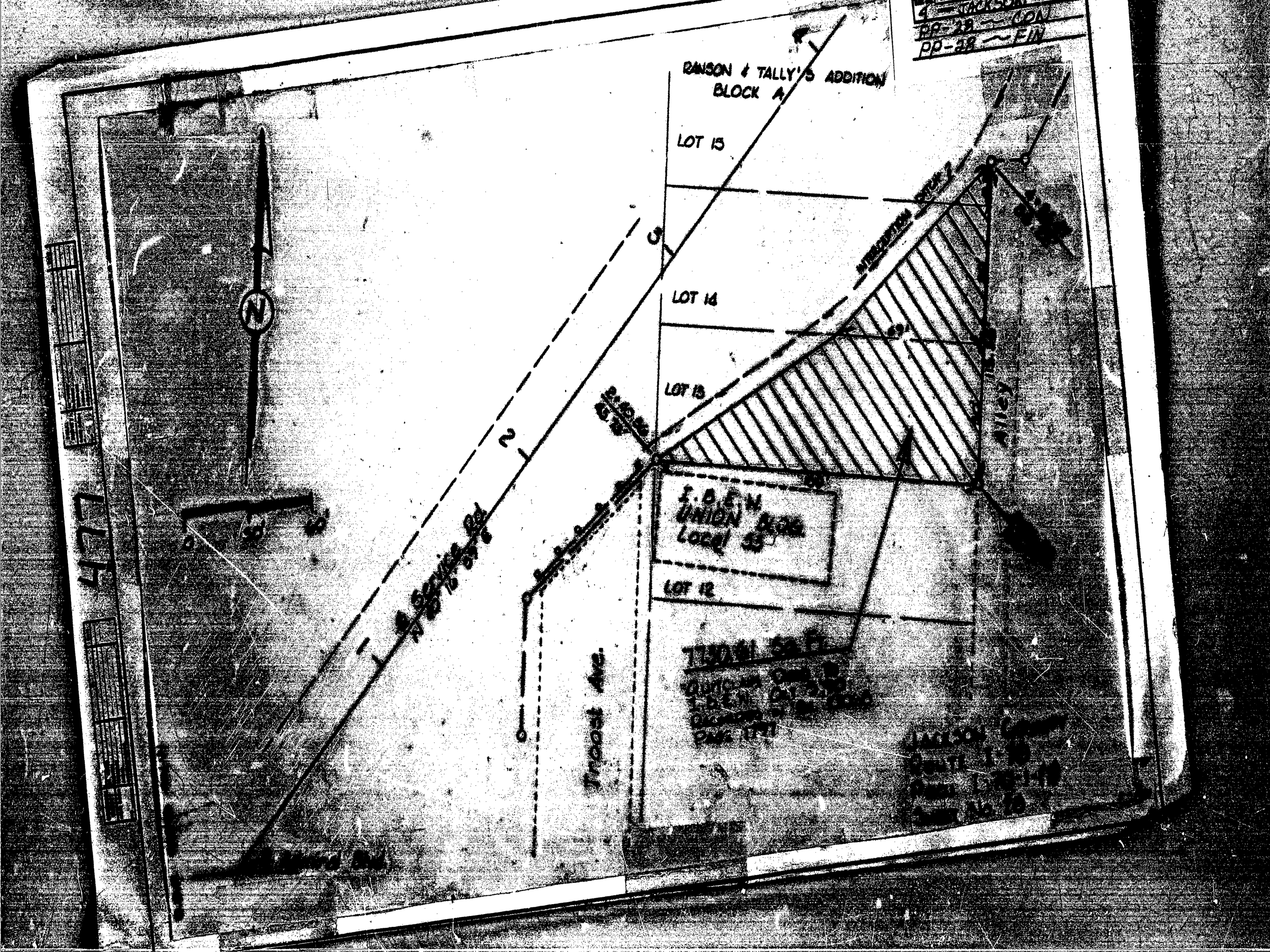
VINCENT P. DASTA

ESTRIN CONST CO.

ISADORE RABICOFF

TRANSFERRED TO LAND CLEARANCE FOR REDEVELOPMENT AUTHORITY OF KANSAS CITY, MISSOURI BY DEED DATED OCTOBER 15, 1975.

158



4 — JACKSON
PP-28 — CON
PP-28 — FIN
RANSON & TALLY'S ADDITION
BLOCK A
LOT 15
LOT 14
LOT 13
LOT 12
INTERCEPTION DITCH
Alley
I.B.E.W.
UNION BLDG.
Local 53
Troost Ave.
N
0
50'
60'