

ROUTE	STATE PROJECT	FEDERAL NO.	SHEET NO.	TOTAL SHEETS
	82251	I-75-(17)51	1	1

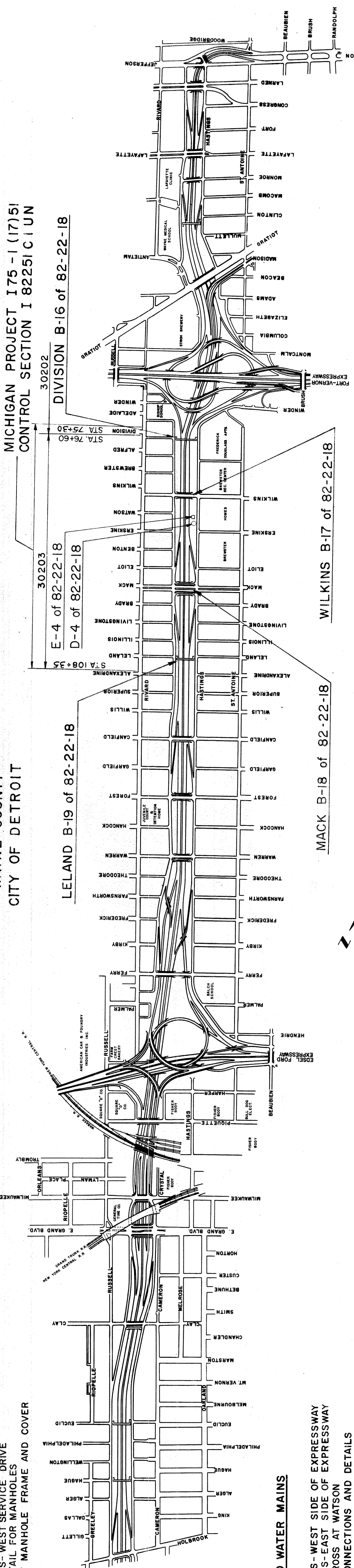
THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN STATE HIGHWAY DEPARTMENT 1960 STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS.

MICHIGAN
STATE HIGHWAY DEPARTMENT
JOHN C. MACKIE
 STATE HIGHWAY COMMISSIONER

PLANS OF PROPOSED

MICHIGAN PROJECT I-75-(17)-51
CONTROL SECTION-B-182251 C I UN-30202,30203
THE WALTER P. CHRYSLER EXPRESSWAY

WAYNE COUNTY
 CITY OF DETROIT



CONTROL SECTION No. 82251-30202,30203

CONTRACT FOR G & D S, PAVING & UTILITY ALTERATIONS.

CHECKED	DESIGN AND TRAFFIC DIVISIONS	DATE
RECOMMENDED FOR APPROVAL	ENGINEER OF DESIGN	11-18-57
REVISIONS APPROVED	TRAFFIC ENGINEER	12-2-57
FOR APPROVAL	ENGINEER OF BRIDGE AND ROAD DESIGN	11-24-57

OFFICE OF ENGINEERING AND CONSTRUCTION
 APPROVED *[Signature]* CONSTRUCTION ENGINEER DATE 11-27-57
 APPROVED *[Signature]* CHIEF ENGINEER DATE 12-8-57

STATE HIGHWAY DEPARTMENT APPROVAL
 APPROVED JOHN C. MACKIE, STATE HIGHWAY COMMISSIONER
 BY *[Signature]* DIRECTOR OF ENGINEERING DATE 12-8-57

PLANS PREPARED BY
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 APPROVED *[Signature]* DIVISION ENGINEER DATE

PLANS PREPARED BY
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF HIGHWAYS AND EXPRESSWAYS
 APPROVED *[Signature]* ENGINEER OF EXPRESSWAYS
 APPROVED *[Signature]* ASSISTANT CITY ENGINEER-HIGHWAYS AND EXPRESSWAYS
 APPROVED *[Signature]* CITY ENGINEER
 APPROVED *[Signature]* COMMISSIONER OF PUBLIC WORKS AND EXPRESSWAYS COORDINATION

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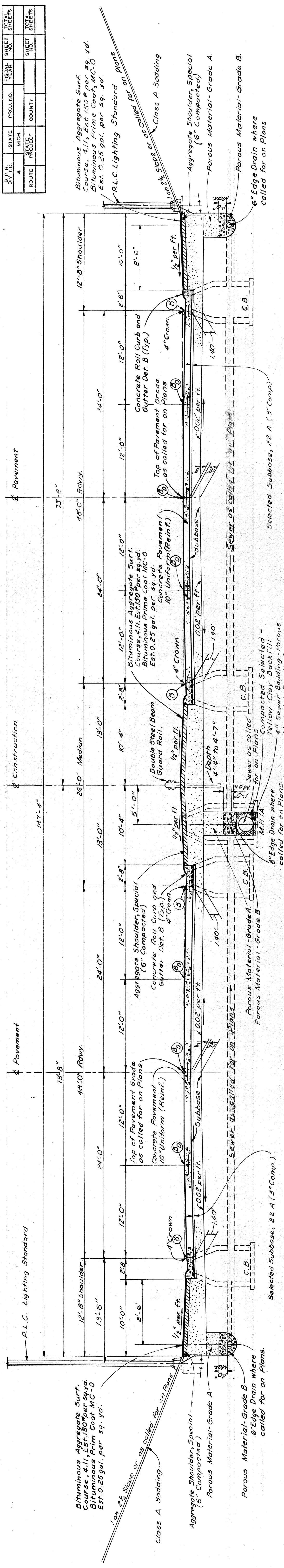
For Index of Plans of B-16, B-17, B-18, B-19, D-4, and E-4 of 82-22-18 see sheet 202.

W-67-1

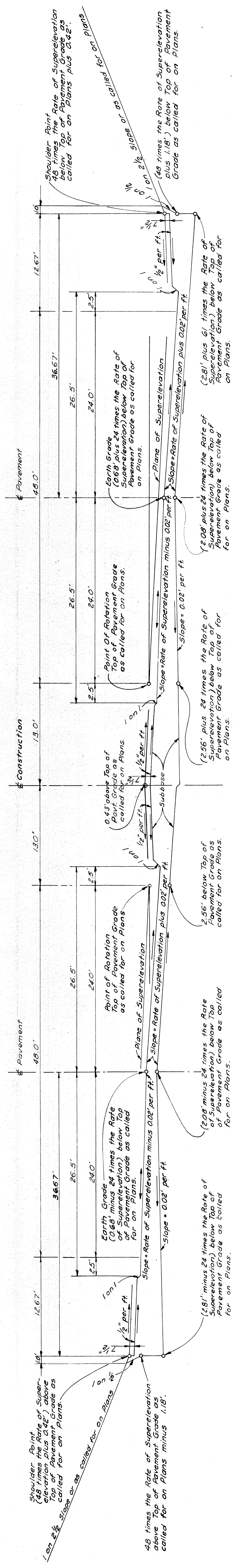
PROJECT NO.	FEDERAL PROJECT	SHEET
82251	I-75-(17)51	1

TYPICAL CROSS SECTIONS

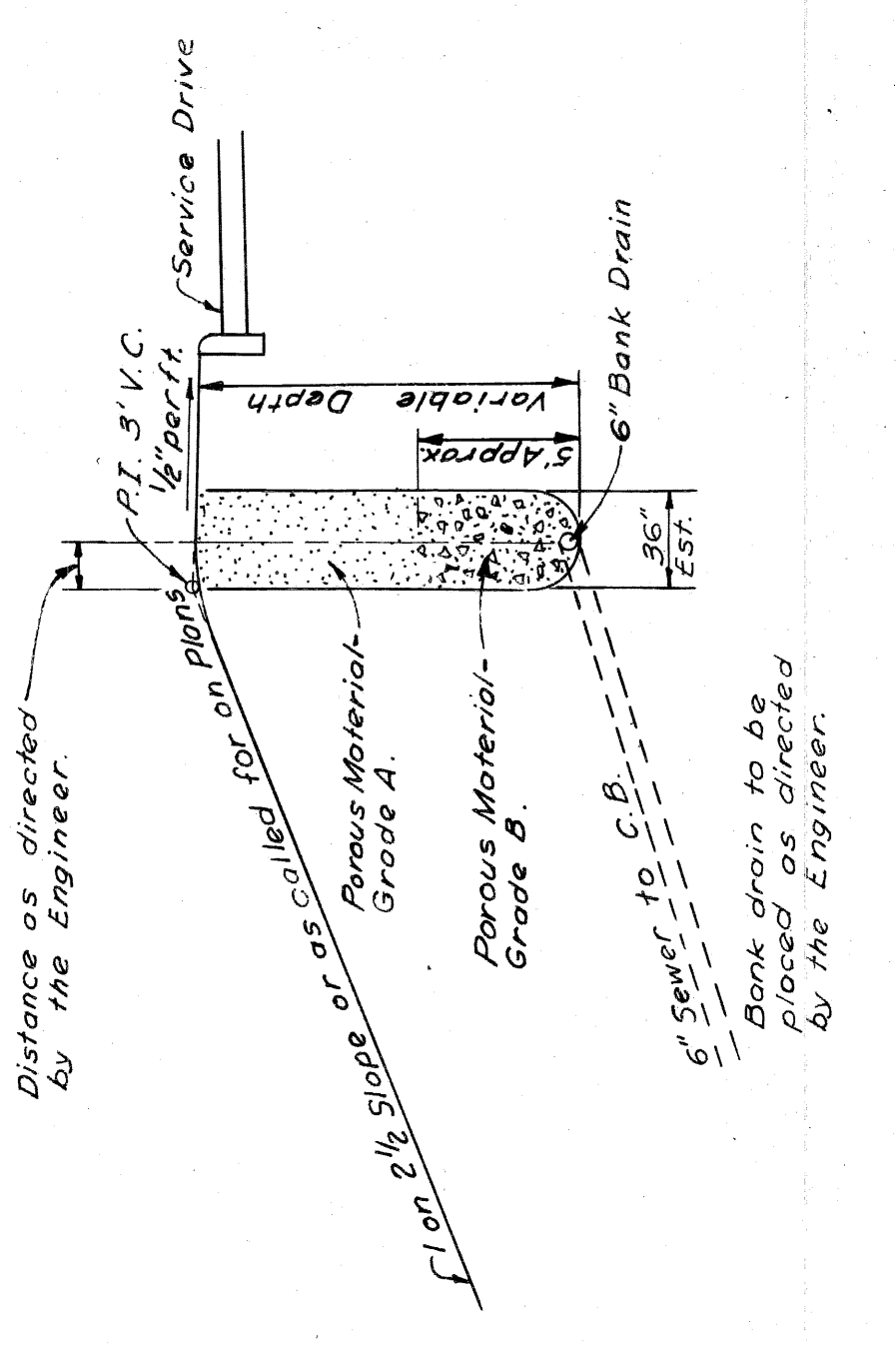
STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MICH.	82251	Wayne Detroit	3	3



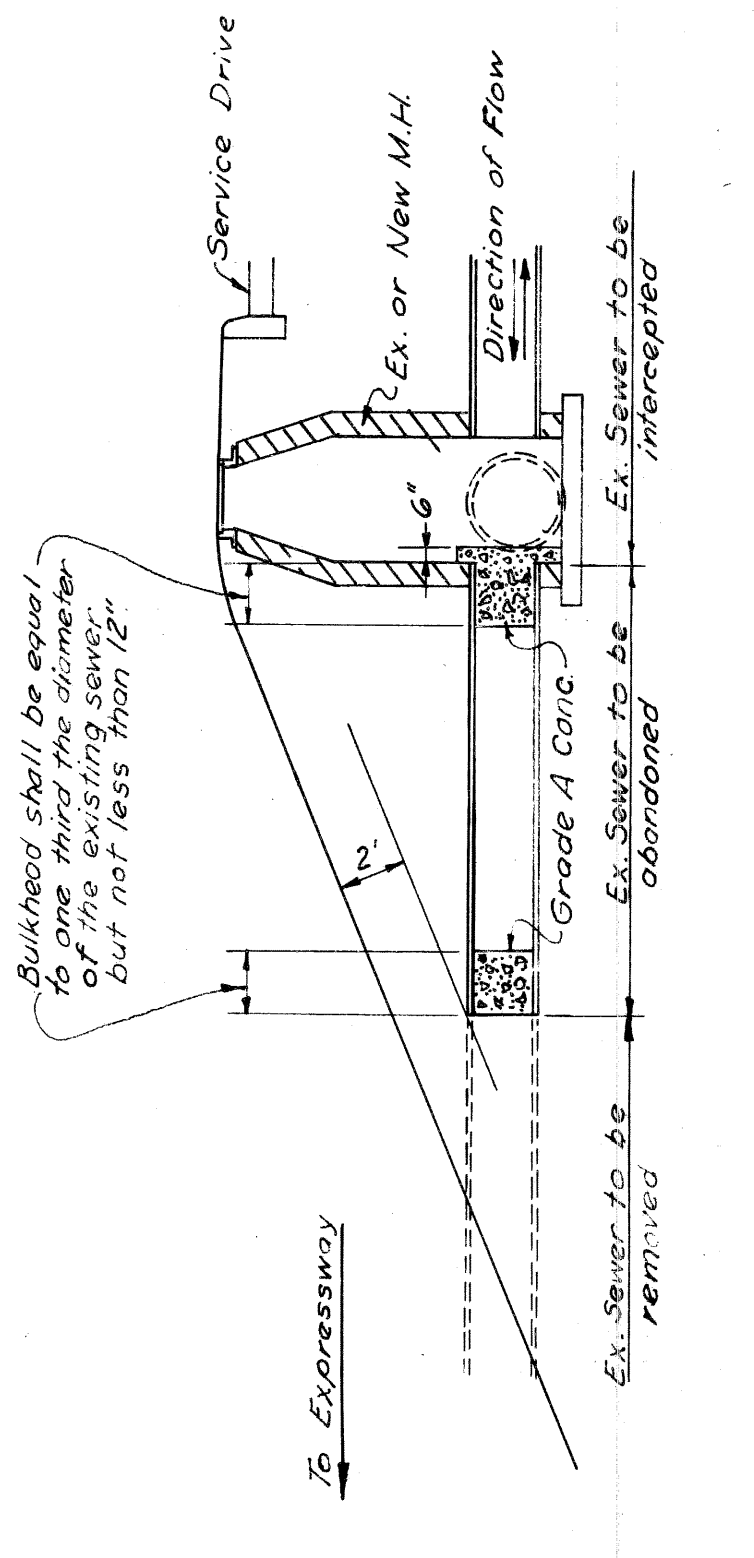
TYPICAL CROSS SECTION OF EXPRESSWAY SHOWING PAVEMENT, SUBBASE AND UNDERDRAINAGE
SCALE 1" = 6'



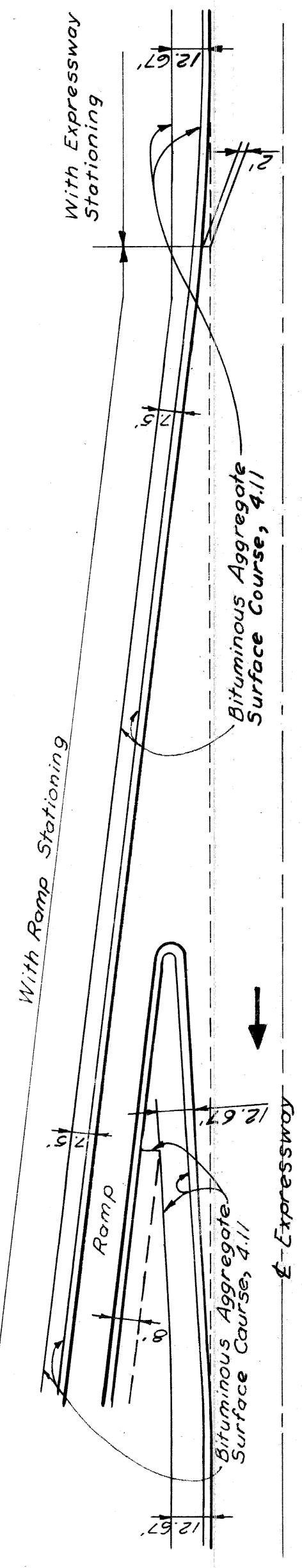
TYPICAL CROSS SECTION FOR GRADING SUPERELEVATED EXPRESSWAY
SCALE 1" = 6'



SKETCH SHOWING BANK DRAIN USED WHERE DIRECTED BY THE ENGINEER
SCALE 1" = 6'



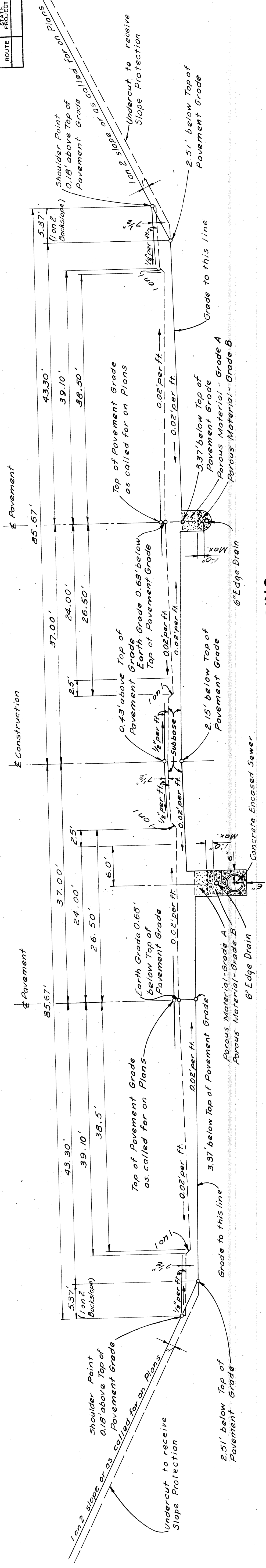
SKETCH SHOWING METHOD FOR BULKHEADING SEVERED SEWERS



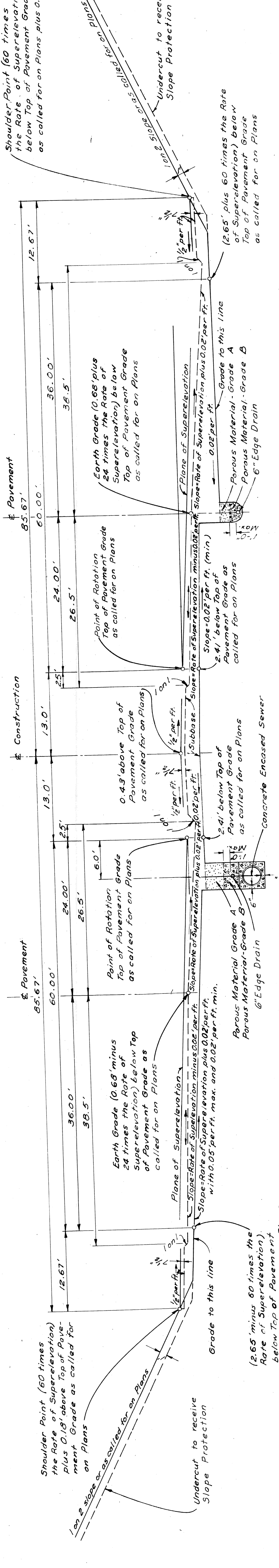
SKETCH SHOWING THE PLACEMENT OF BITUMINOUS AGGREGATE SURFACE COURSE AT RAMP
SCALE 1" = 4.0'

B.P. NO.	STATE	PRECL. NO.	SHEET NO.	TOTAL SHEETS
4	MICH.			
ROUTE	CITY	PROJECT	SHEET NO.	TOTAL SHEETS
22251	Wayne	DePait	7	
B.P. NO.	STATE	PRECL. NO.	SHEET NO.	TOTAL SHEETS
4	MICH.			
ROUTE	CITY	PROJECT	SHEET NO.	TOTAL SHEETS
22251	Wayne	DePait	7	

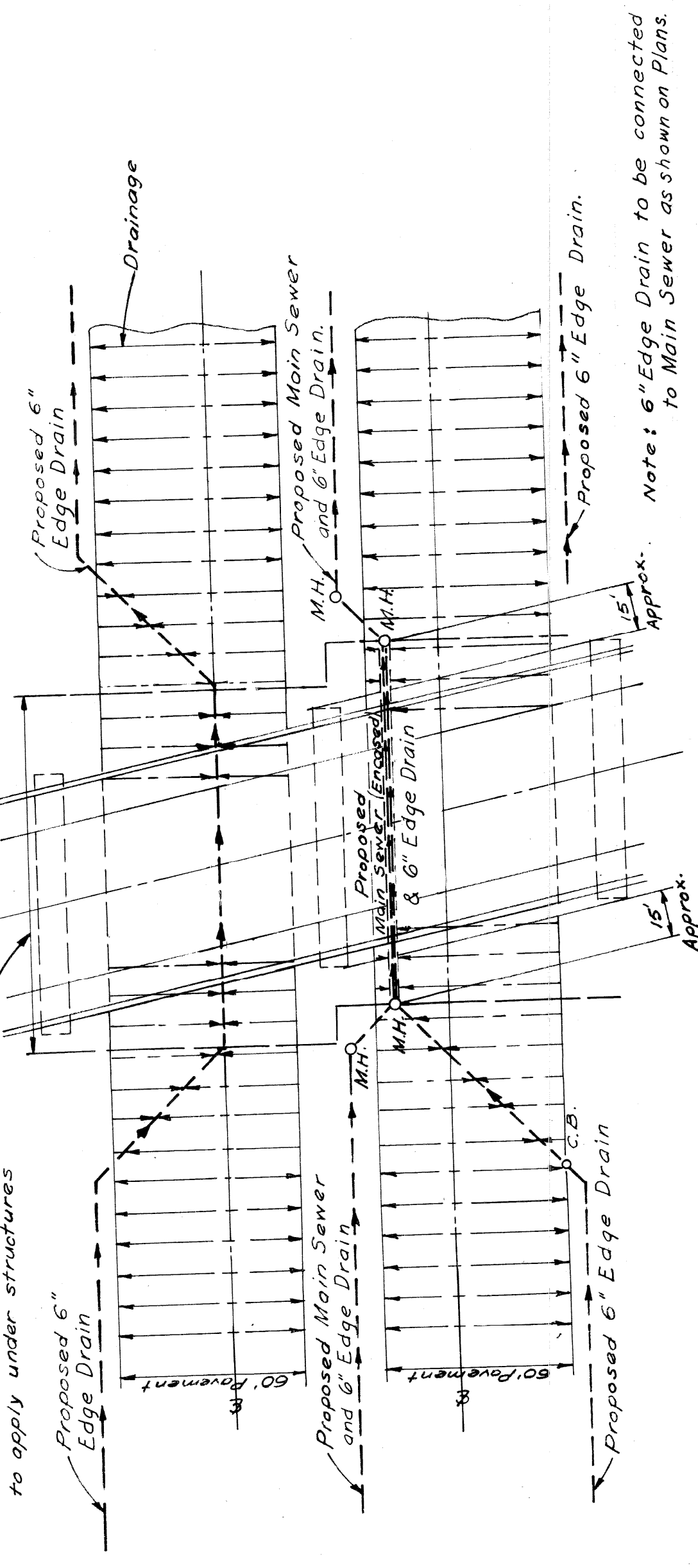
TYPICAL CROSS-SECTIONS



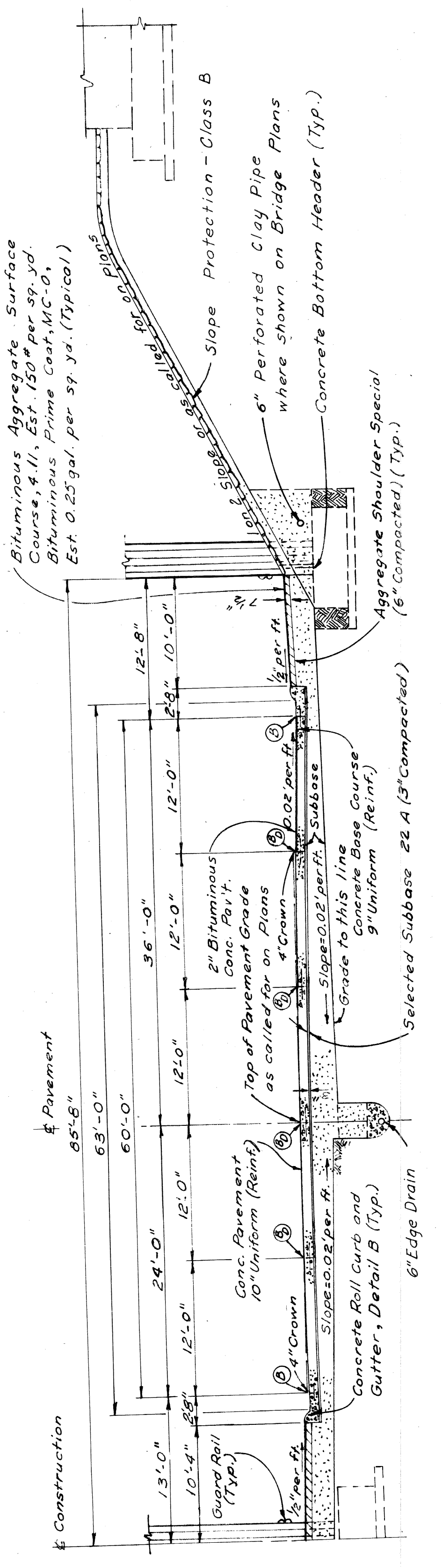
TYPICAL CROSS SECTION FOR GRADING TO APPLY UNDER STRUCTURES
SCALE 1" = 8'



TYPICAL CROSS SECTION FOR GRADING ON SUPERELEVATED CURVES TO APPLY UNDER STRUCTURES
SCALE 1" = 8'



PLAN SHOWING DRAINAGE UNDER STRUCTURES
Note: 6" Edge Drain to be connected to Main Sewer as shown on Plans



TYPICAL HALF SECTION SHOWING FINISHED EXPRESS ROADWAY TO APPLY UNDER STRUCTURES
SCALE 1" = 8'

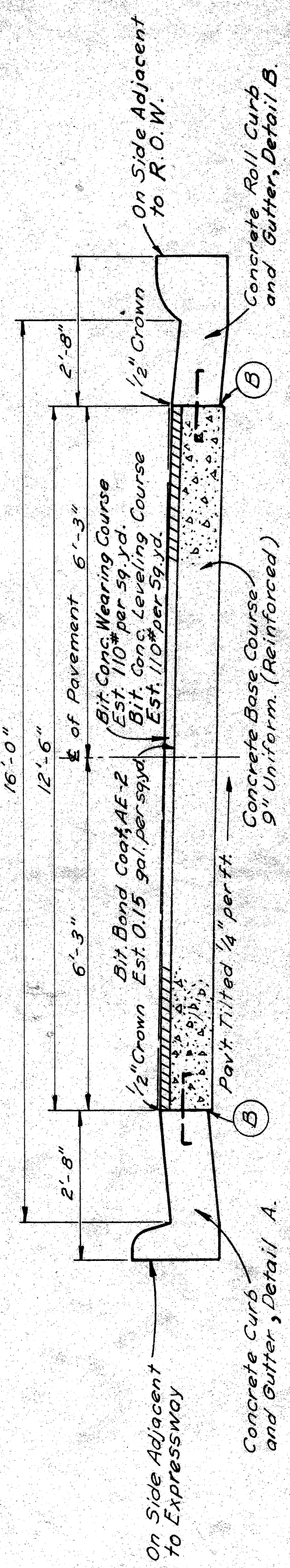
PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

60' ROADWAY
W-67-1

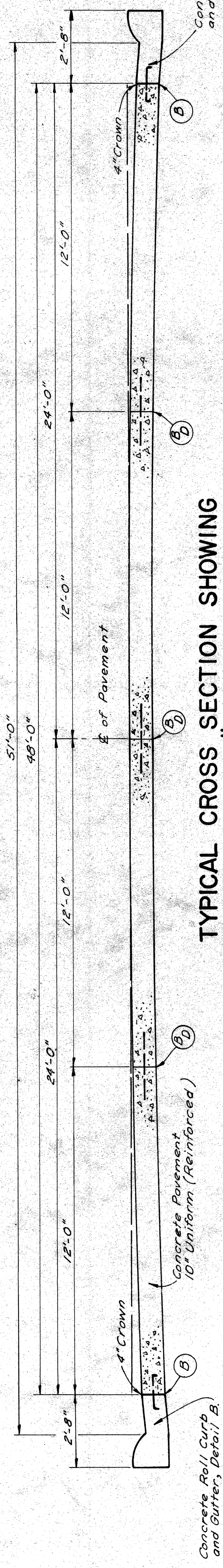
FILE NO. 62251
PROJECT W-67-1
SHEET 7

TYPICAL CROSS-SECTIONS

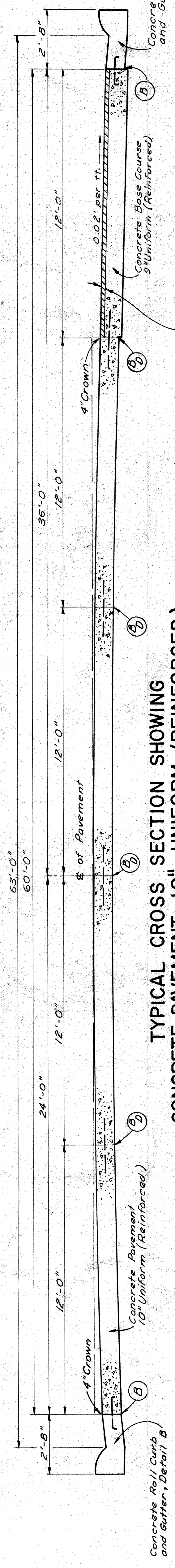
STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
MICH.	172/12	1	1
CITY	DETROIT		



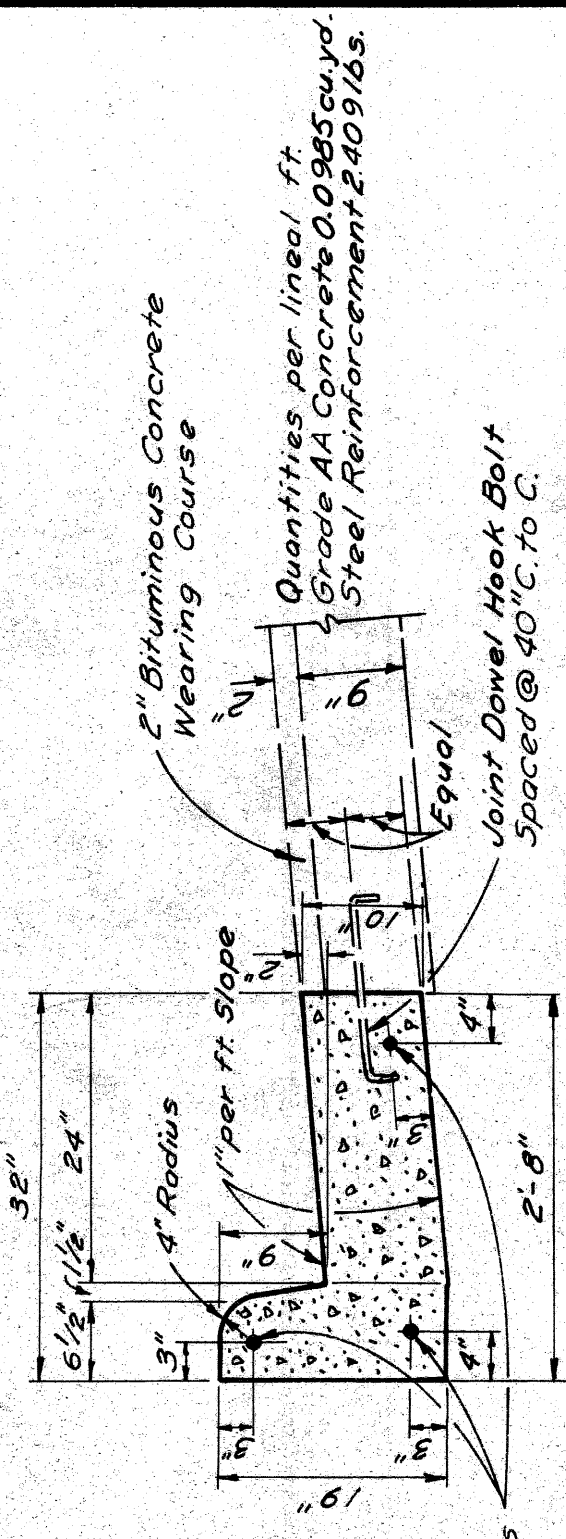
**TYPICAL CROSS SECTION SHOWING
CONCRETE BASE COURSE 9" UNIFORM (REINFORCED)
WITH BITUMINOUS CONCRETE PAVEMENT**
TO APPLY ON 12.5' RAMP - SCALE 1/2" = 1'



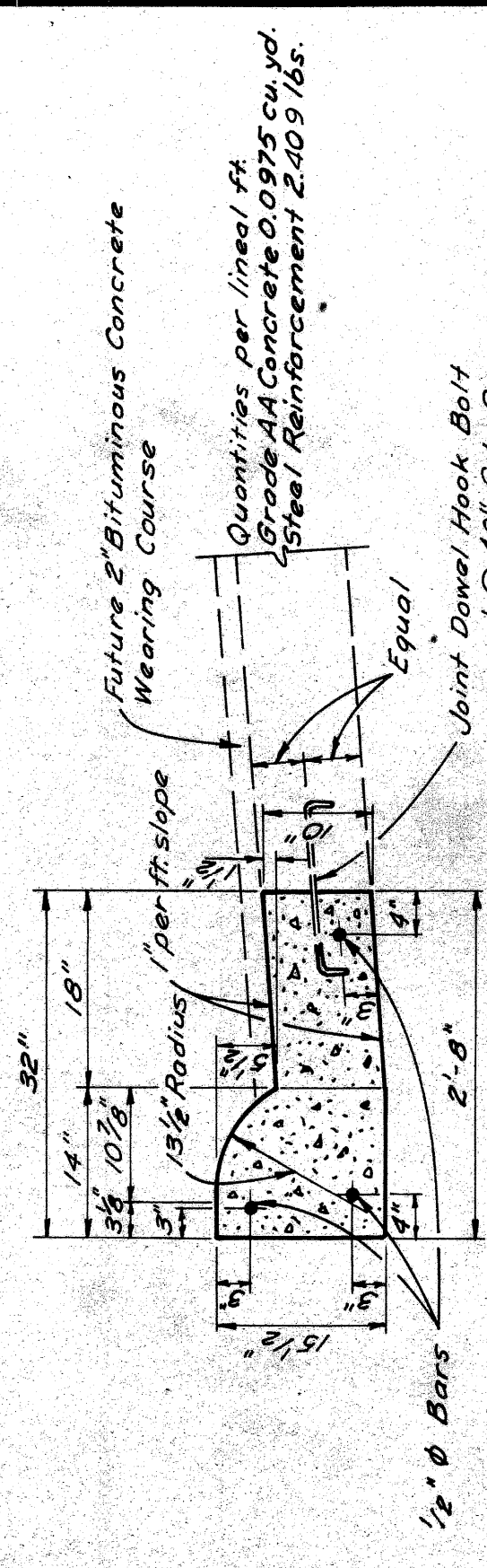
**TYPICAL CROSS SECTION SHOWING
CONCRETE PAVEMENT 10" UNIFORM (REINFORCED)**
TO APPLY ON 48' EXPRESS ROADWAY - SCALE 3/8" = 1'



**TYPICAL CROSS SECTION SHOWING
CONCRETE PAVEMENT 10" UNIFORM (REINFORCED)**
TO APPLY ON 60' EXPRESS ROADWAY - SCALE 3/8" = 1'



CONCRETE CURB & GUTTER, DETAIL A.
SCALE 3/4" = 1'



CONCRETE ROLL CURB & GUTTER, DETAIL B.
SCALE 3/4" = 1'

JOINT LEGEND

- B- Longitudinal Bulkhead Construction Joint, according to M.S.H.D. Std. Plan E-4-A-33F, Detail 2.
- D- Longitudinal Lane Tie Bars, according to M.S.H.D. Std. Plan E-4-A-33F, Detail 1.
- B.D. Optional B or D.

Note: The Concrete Base Course and Concrete Pavement shall be reinforced through out in accordance with M.S.H.D. Std. Plan E-4-A-21F.

B.P. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	MICH.			
ROUTE	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
51	Wayne	Dearborn	10	
B.P. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	MICH.			
ROUTE	COUNTY	CITY	SHEET NO.	TOTAL SHEETS

NOTES APPLYING TO STANDARD PLANS

Where the following items are called for on plans, they are to be constructed according to the Standard Plan given below opposite each item unless otherwise indicated.

Cross references on Standard Plans shall be understood to refer to the latest approved Standard Plan for the detail in question.

Edge Drain	E-4-A-90, Detail 5
Sodding	E-4-A-10B
Pavement Reinforcement	E-4-A-21F
Grading Cross-Sections	E-4-A-26D
Manholes, Catch Basins and Inlets	E-4-A-27R-3
Cover A	E-4-A-27A-3
Cover B	Optional-E-4-A-27B-3 or E-4-A-27B-4
Cover D	E-4-A-27D-3
Concrete Curb, Roll Curb and Curb and Gutter	E-4-A-29E
Curb and Gutter Headers	E-4-A-29E, Detail 9
Curb and Gutter Endings	E-4-A-29E, Detail 4
Driveway Returns and Driveway Openings	E-4-A-29E
Concrete End Header (at pavement ends)	E-4-A-29E, Detail 20
Bridge Header	E-4-A-29E, Detail 21
Pavement Joints	E-4-A-33F (except that plain tie bars will not be permitted)
Superelevation of Curves	E-4-A-49B-7 (except that the rate of superelevation is to be called for on plans.)
Pavement Crowns	E-4-A-49B-7
Two Cable Guard Rail and Guard Posts	E-4-A-75C-2
4" Concrete Sidewalk	E-4-A-110B, Detail 2
7" Concrete Sidewalk	E-4-A-110B, Detail 3
Concrete Pavement, 7" Uniform	E-4-A-110B, Detail 4
Typical Joint Layout	E-4-A-127A
Tile Trap	E-4-A-129
Dowel Bar Installation for Load Transfer at Transverse Contraction and Expansion Joints	Optional E-4-A-130A E-4-A-130B E-4-A-130D, or other approved equal
Base Plates for Transverse Pavement Joints	E-4-A-138 (except that spot welds may be substituted for rivets to attach the one inch angle.)
Location of Transverse Expansion and Contraction Joints in Concrete Pavement	E-4-A-135A
Barricade and Project Sign	E-6-A-55E
Steel Beam Guard Rail	E-4-A-137C

The following items of work shall be done as they apply throughout the project. These items are not detailed or included on the plan and profile sheets.

Fine Grading and Cleanup	Stas.	Trimming & Finishing Earth Grade	Stas.	Compacting Cut Sections	Stas.
108+53	33.05	0.38	33+43.0		
108+53	33.05	0.38	33+43.0		
103+60.39	4.45		4+45.0		
93+30.73	3.57		3+57.0		
94+30.86	3.57		3+57.0		
104+27.93	4.02		4+02.0		
109+05.62	34.26				
109+08.03	36.52		66+77.0		
	152.49				

As Constructed
Auth. 1010 I 82251-30202
Auth. 1013 I 82251-30203

Restoring Roadside ----- 1 Acre
Mulching ----- 0.6 Tons Deleted Auth. 1063
Seeding ----- 4 Acres

SPECIAL PROVISIONS

GRADES FOR INTERSECTIONS
All intersections are to be considered as complete units and their grades determined before construction is started.

TRANSVERSE JOINTS IN CONCRETE PAVEMENT
Transverse joints in concrete pavement shall be placed according to details on Standard Plan E-4-A-135A and E-4-A-127A.

TRANSVERSE PLANE OF WEAKNESS JOINTS IN CONCRETE BASE COURSE
Transverse plane of weakness joints shall be placed according to Standard Plan E-4-A-127A.

TRANSVERSE JOINTS IN CONCRETE BASE COURSE
In the concrete base course widening, transverse plane of weakness joints shall be placed in line with expansion joints in the existing concrete pavement.

HAND FINISHING
Hand finishing according to 41403-a-1 of the Standard-Specifications will be permitted on intersections outside of the normal traffic lanes.

PAVEMENT REINFORCEMENT
The pavement reinforcement shall conform to Standard Plan E-4-A-21F except that the length of sheet or mat for 12 foot lanes may be 15'-0" instead of 10'-0".

The laying lap for 15-foot length sheet or mat shall be 13 inches. The computed weight of steel per standard sheet is as follows:

Type of Reinforcement	Weight per 15-foot length of Standard Sheet for 12-foot Lanes in Lbs.
Mesh	1289
Bar Mat	1422
Expanded Metal	1380

GENERAL PLAN NOTES

POLES
No poles will be permitted within the right-of-way along this project, except as authorized by the Engineer.

The following items are estimated for the entire project to correct possible unstable subgrade conditions where designated by the Engineer

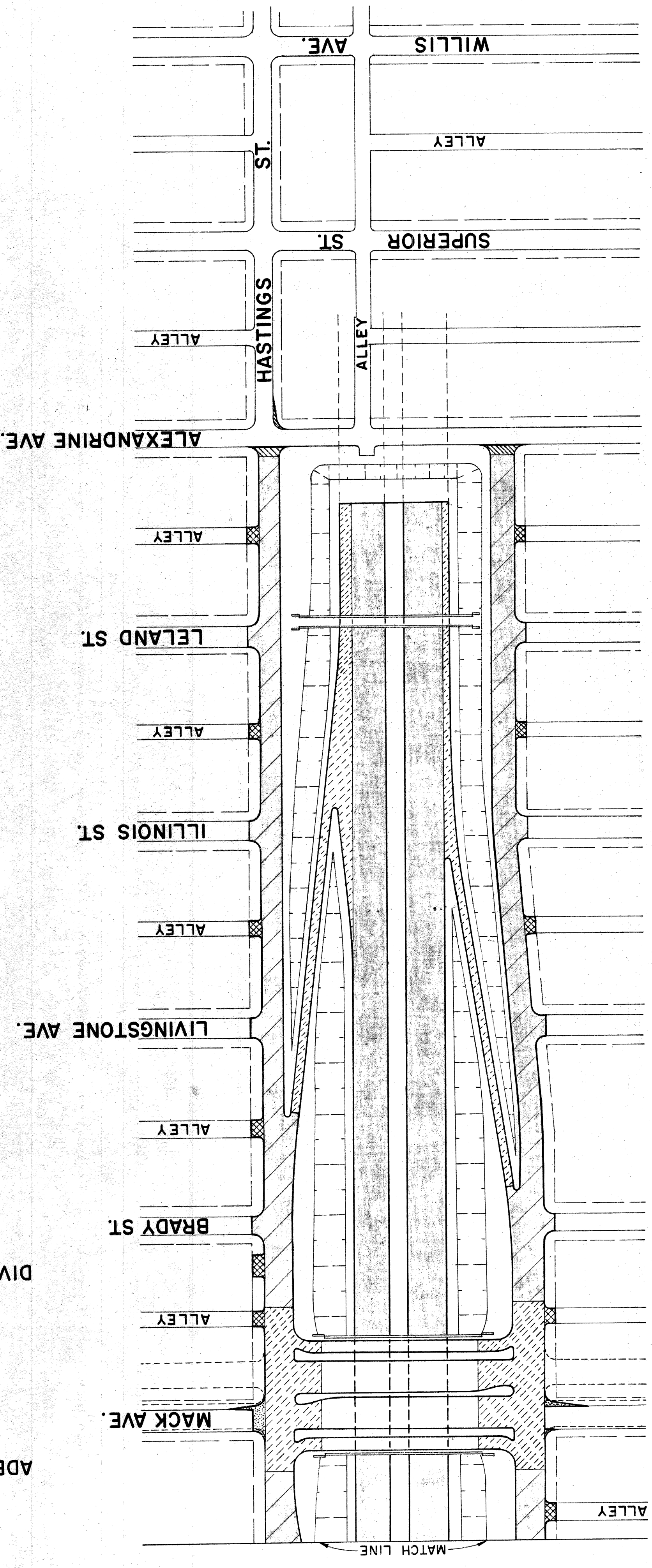
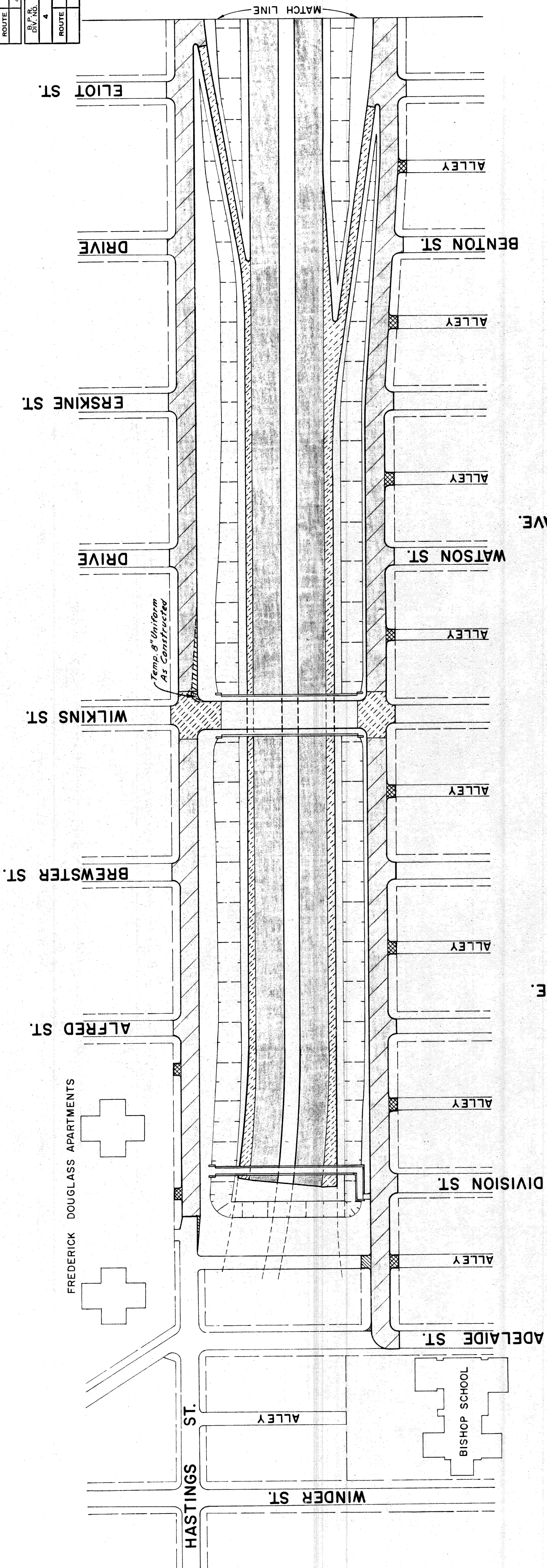
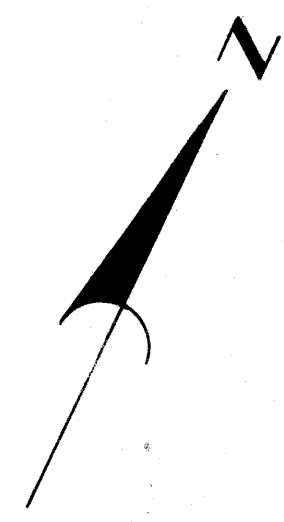
6" Bank Drain (6' - 14.0' Deep)	455				
6" Bank Drain (14.1' - 25.0' Deep)	675	675 Lin. Ft.	Auth. 1034		
6" Sewer (6.1' - 14.0' Deep) for bank drains	80	80 Lin. Ft.	Auth. 1034, 1032, 1050		
6" Sewer (14.1' - 25.0' Deep) for bank drain	666	666 Lin. Ft.	Auth. 1050		
Excavation (Waste from Bank Drain Sewer Trenches)	10,610	10,610 Cu. Yds.	Auth. 1033		
Porous Material - Grade A, (COMPACTED IN PLACE)	13,306	13,306 TONS	Auth. 1035		
Porous Material - Grade B, (Loose Measure)	4,781	4,781 Cu. Yds.	Auth. 1035		

DATE	BY	REVISION
8-29	W. H. H.	REVISION
8-29	W. H. H.	REVISION
8-29	W. H. H.	REVISION
8-29	W. H. H.	REVISION

PLANS PREPARED BY
CITY OF DEARBORN
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEER
BUREAU OF HIGHWAYS AND TRENCHES

S.P.R. DIV. NO. 4		STATE MICH.		PROJ. NO.		SHEET NO.		TOTAL SHEETS	
ROUTE	PROJECT	CITY	COUNTY	PROJ. NO.	CITY	SHEET NO.	TOTAL SHEETS	PROJ. NO.	TOTAL SHEETS
4	22251	WINDY	DEARBORN			11	11		

S.P.R. DIV. NO. 4		STATE MICH.		PROJ. NO.		SHEET NO.		TOTAL SHEETS	
ROUTE	PROJECT	CITY	COUNTY	PROJ. NO.	CITY	SHEET NO.	TOTAL SHEETS	PROJ. NO.	TOTAL SHEETS
4	22251	WINDY	DEARBORN			11	11		



- 8" Uniform Concrete
- 9" Uniform Concrete
- 10" Uniform Concrete
- Bituminous Concrete, Class 1, on 9" Uniform Concrete Base
- Temporary Pavement (8" Uniform Concrete - No Reinforcement)
- Temporary Pavement (Bituminous Concrete, Class 1, on 8" Uniform Concrete Base - No Reinforcement)

FREDERICK DOUGLASS APARTMENTS

BISHOP SCHOOL

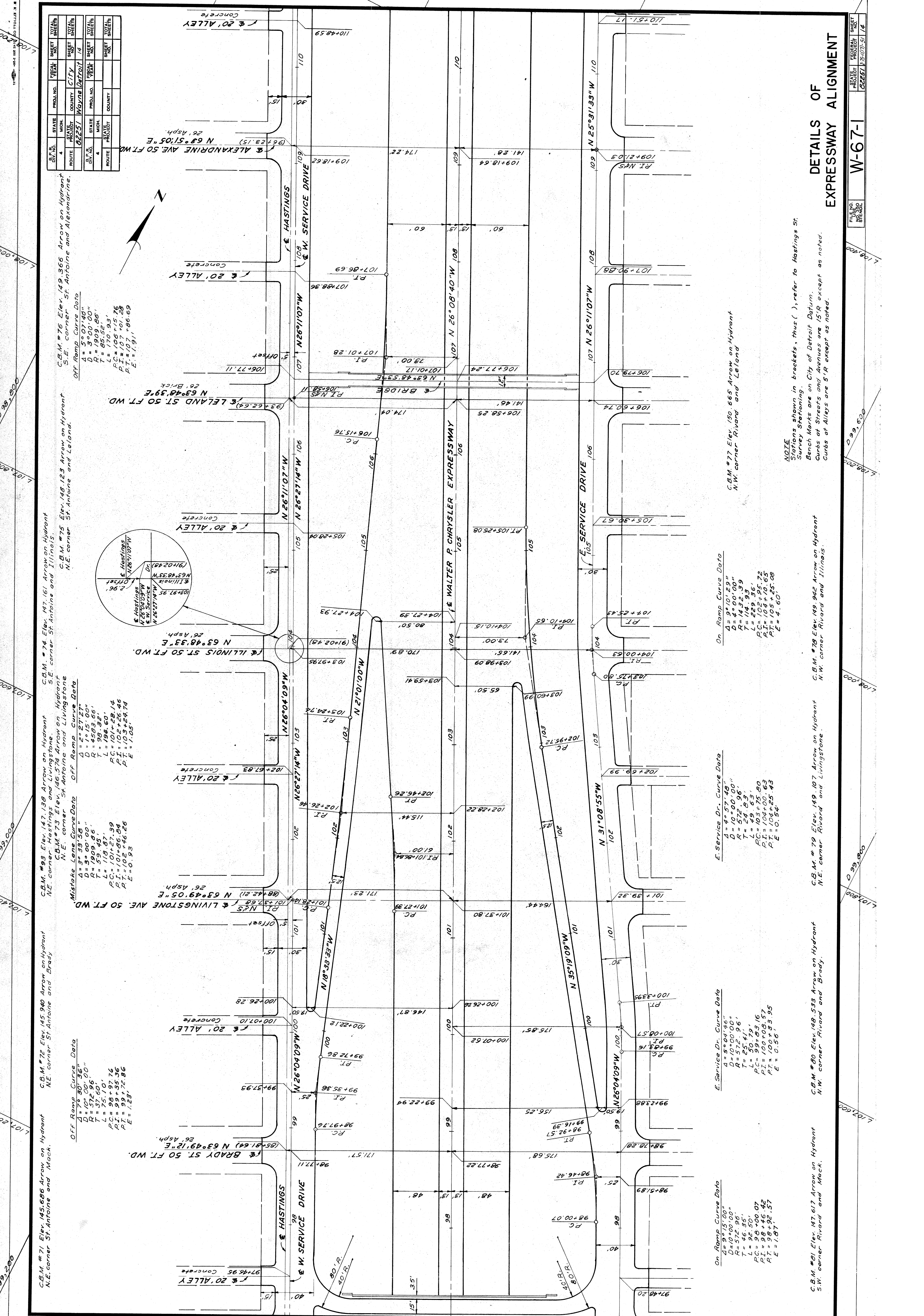
DATE	BY	PLAN DESIGNED	COLLINS
		PLAN CHECKED	KIMMEL - HESLIN
		SOULD LAYOUT	LEWIS
		RECOMMENDED FOR APPROVAL	K. M. HALL

PLANS PREPARED BY
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

SURFACING PLAN

DETAILS OF
EXPRESSWAY ALIGNMENT

FILE NO.	PROJECT	SHEET
W-67-1		
DATE	PREPARED	SHEET
12-25-51		14



C.B.M. #71 Elev. 145.696 Arrow on Hydrant N.E. corner St. Antoine and Mack.
C.B.M. #72 Elev. 145.940 Arrow on Hydrant N.E. corner St. Antoine and Brady.
C.B.M. #73 Elev. 147.138 Arrow on Hydrant N.E. corner Hastings and Livingstone.
C.B.M. #74 Elev. 147.161 Arrow on Hydrant S.E. corner St. Antoine and Illinois.
C.B.M. #75 Elev. 148.123 Arrow on Hydrant N.E. corner St. Antoine and Leland.
C.B.M. #76 Elev. 149.366 Arrow on Hydrant S.E. corner St. Antoine and Alexander Ave.
C.B.M. #77 Elev. 150.665 Arrow on Hydrant N.W. corner Rivard and Leland.
C.B.M. #78 Elev. 149.942 Arrow on Hydrant N.W. corner Rivard and Illinois.
C.B.M. #79 Elev. 149.107 Arrow on Hydrant N.E. corner Rivard and Livingstone.
C.B.M. #80 Elev. 148.533 Arrow on Hydrant N.W. corner Rivard and Brady.
C.B.M. #81 Elev. 147.617 Arrow on Hydrant S.W. corner Rivard and Mack.

STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
MICH.	62251	14	14
CITY	COUNTY	DATE	BY
Wayne	Wayne	12/25/51	

Off Ramp Curve Data
 $\Delta = 5^{\circ}07'40''$
 $D = 3^{\circ}00'00''$
 $R = 1909.86'$
 $T = 95.52'$
 $L = 106.15'$
 $PC = 107.10$
 $PT = 107.10$
 $E = 1.91'$

Mistake Lane Curve Data
 $\Delta = 2^{\circ}27'27''$
 $D = 3^{\circ}33'58''$
 $R = 1009.86'$
 $T = 59.45'$
 $L = 118.87'$
 $PC = 101.27$
 $PT = 101.27$
 $E = 1.06'$

On Ramp Curve Data
 $\Delta = 9^{\circ}10'10''$
 $D = 10^{\circ}00'00''$
 $R = 1432.99'$
 $T = 114.93'$
 $L = 229.36'$
 $PC = 102.95$
 $PT = 104.10$
 $E = 4.60'$

E. Service Dr. Curve Data
 $\Delta = 4^{\circ}57'48''$
 $D = 10^{\circ}00'00''$
 $R = 572.96'$
 $T = 24.83'$
 $L = 49.63'$
 $PC = 103.75$
 $PT = 104.25$
 $E = 0.54'$

On Ramp Curve Data
 $\Delta = 9^{\circ}15'00''$
 $D = 10^{\circ}00'00''$
 $R = 572.96'$
 $T = 46.55'$
 $L = 96.50$
 $PC = 98.45$
 $PT = 98.45$
 $E = 1.87'$

E. Service Dr. Curve Data
 $\Delta = 5^{\circ}04'46''$
 $D = 10^{\circ}00'00''$
 $R = 572.96'$
 $T = 25.41'$
 $L = 50.78$
 $PC = 100.03$
 $PT = 100.53$
 $E = 0.56'$

On Ramp Curve Data
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 $D = 10^{\circ}00'00''$
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 $T = 46.55'$
 $L = 96.50$
 $PC = 98.45$
 $PT = 98.45$
 $E = 1.87'$

E. Service Dr. Curve Data
 $\Delta = 4^{\circ}57'48''$
 $D = 10^{\circ}00'00''$
 $R = 572.96'$
 $T = 24.83'$
 $L = 49.63'$
 $PC = 103.75$
 $PT = 104.25$
 $E = 0.54'$

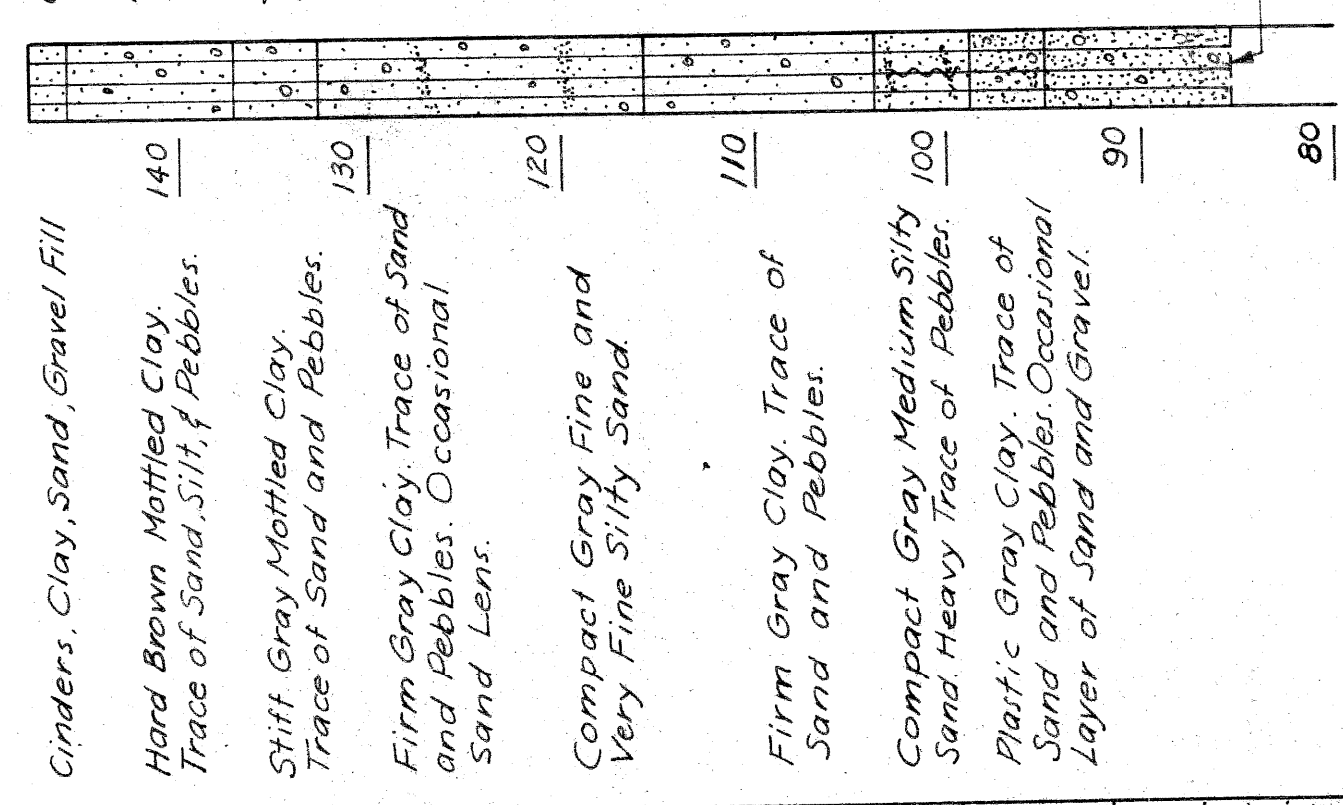
On Ramp Curve Data
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 $D = 10^{\circ}00'00''$
 $R = 1432.99'$
 $T = 114.93'$
 $L = 229.36'$
 $PC = 102.95$
 $PT = 104.10$
 $E = 4.60'$

NOTE
 Stations shown in brackets, thus (), refer to Hastings St. Survey Stationing.
 Bench Marks are on City of Detroit Datum.
 Curbs of Streets and Alleys are 15'R except as noted.
 Curbs of Alleys are 5'R except as noted.

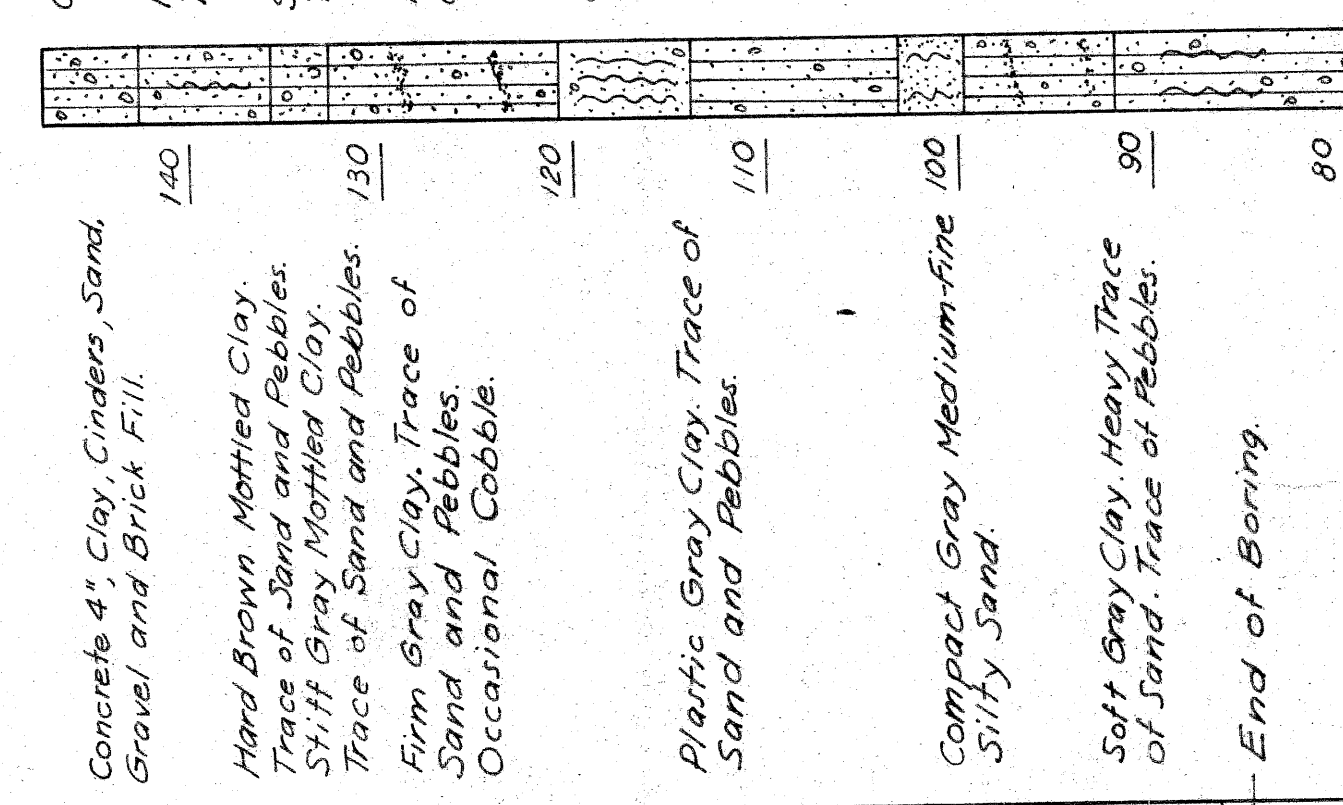
S.P.R. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	MICH.			
ROUTE	CITY	PROJECT	DATE	
	WAYNE	DETROIT	1/6	

LOG OF BORINGS

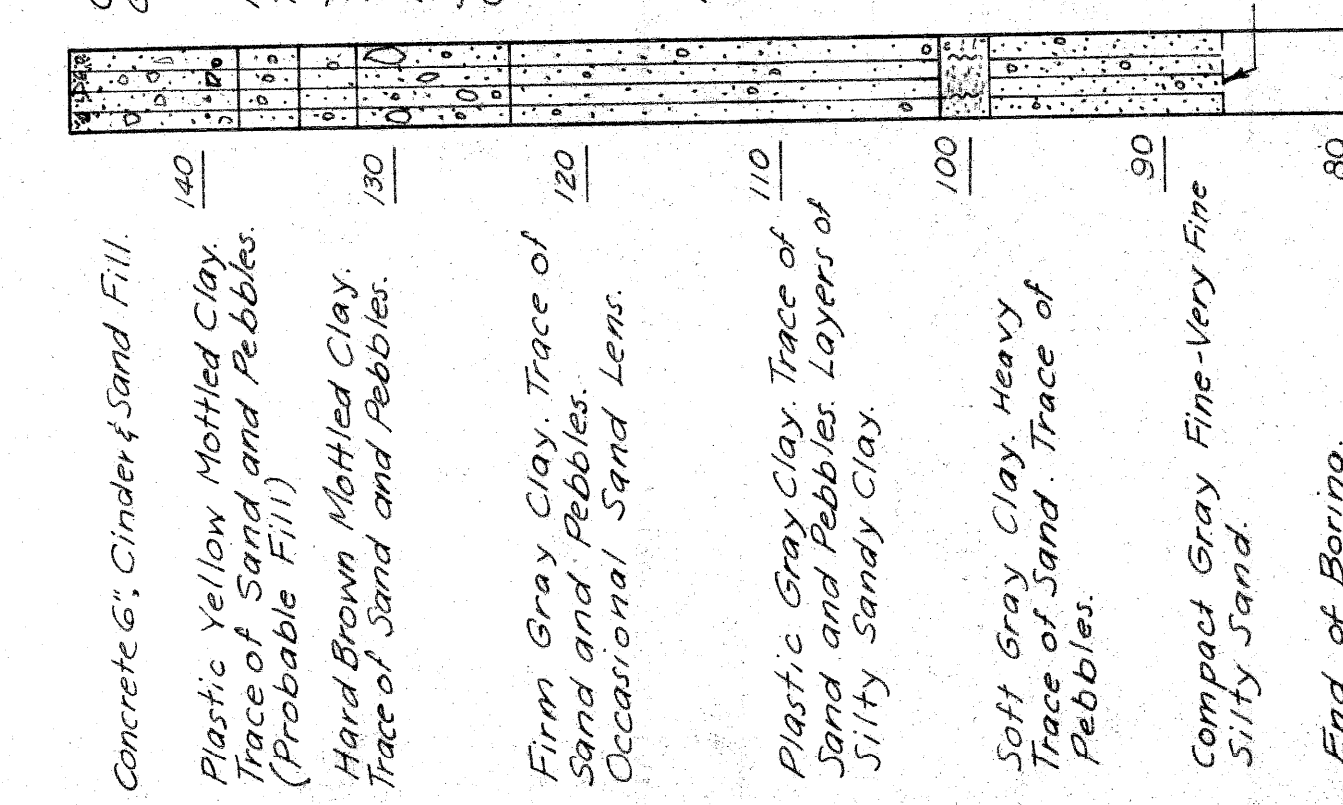
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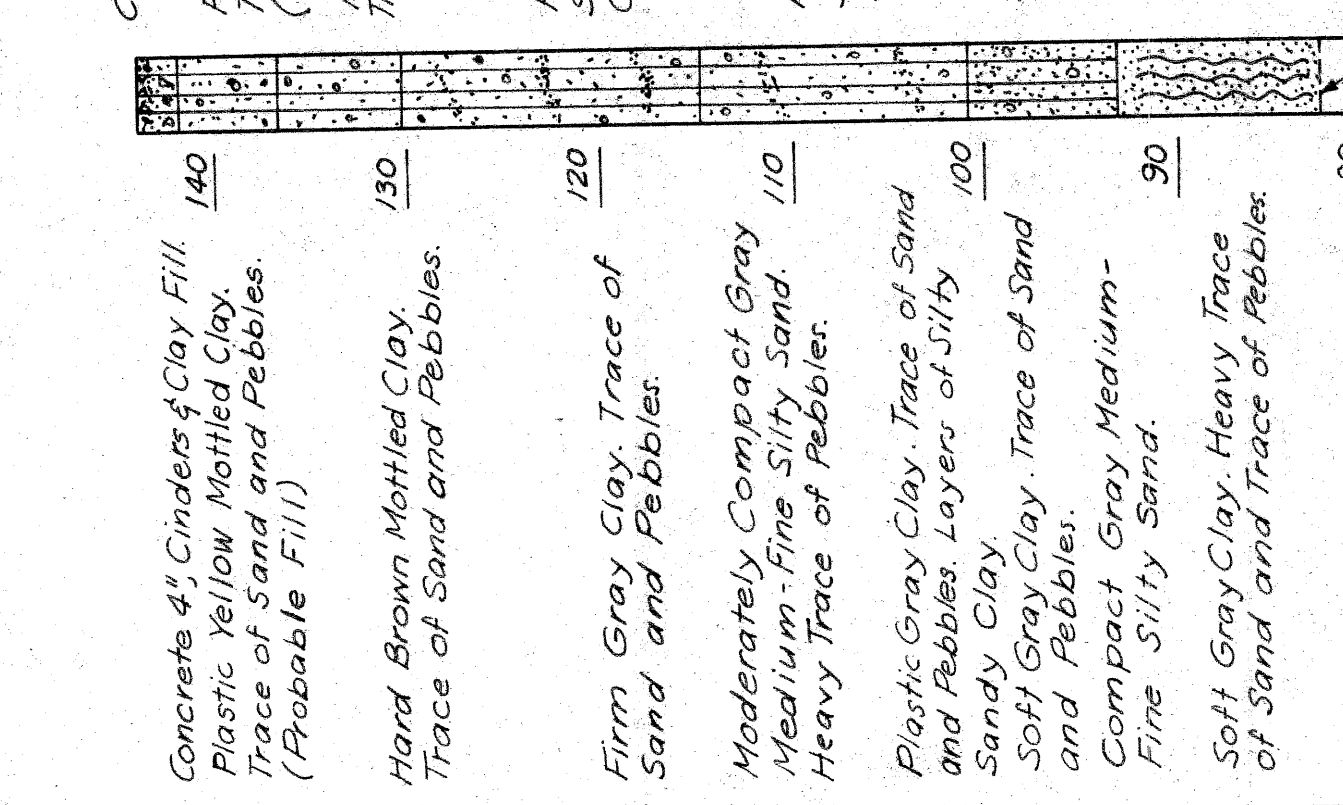
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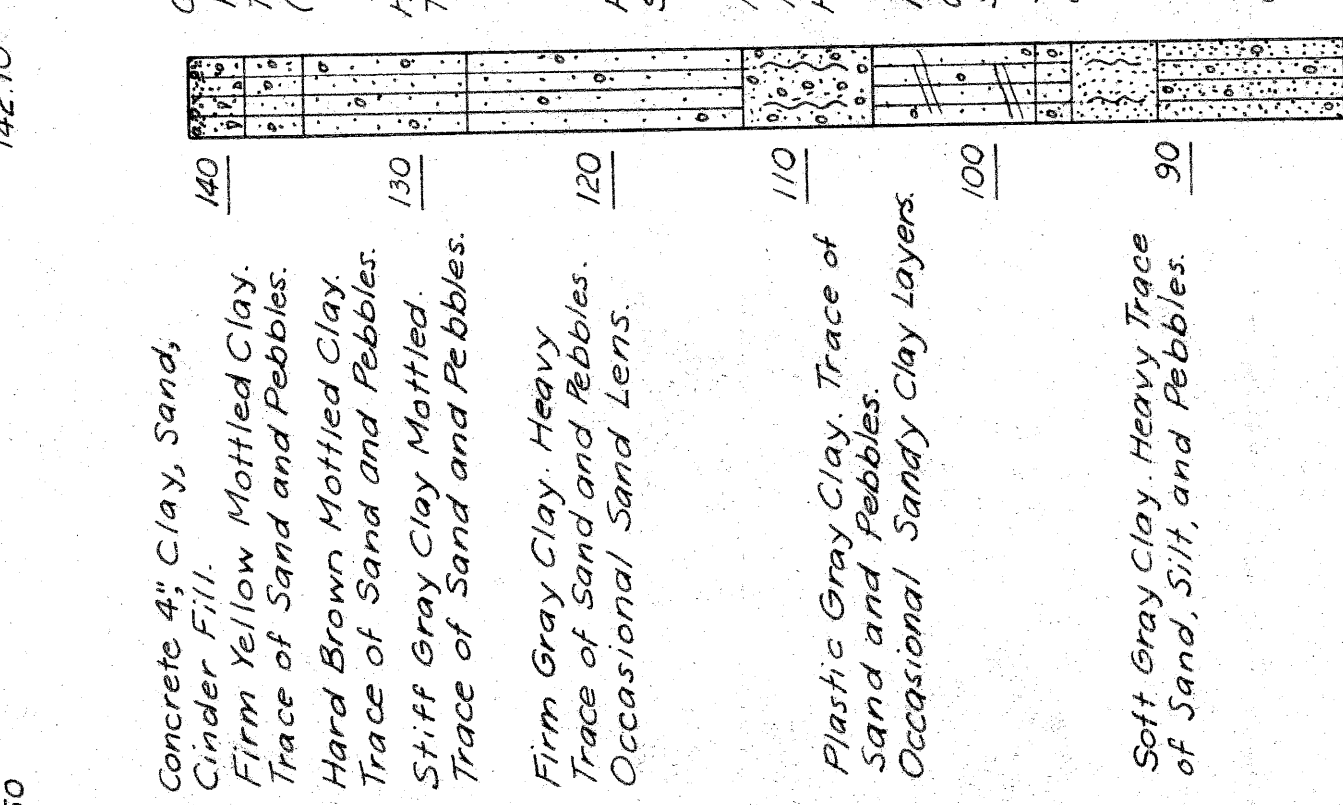
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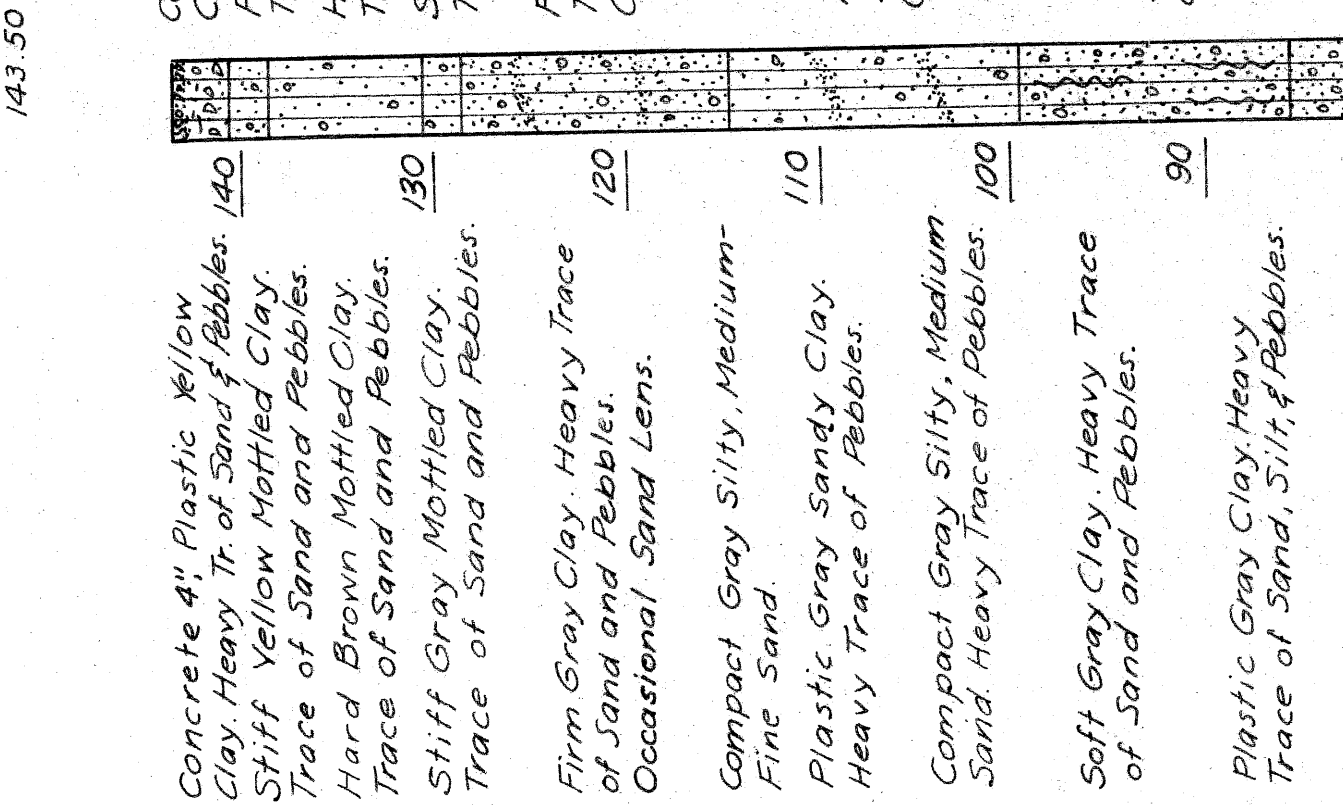
TH #74
144.10



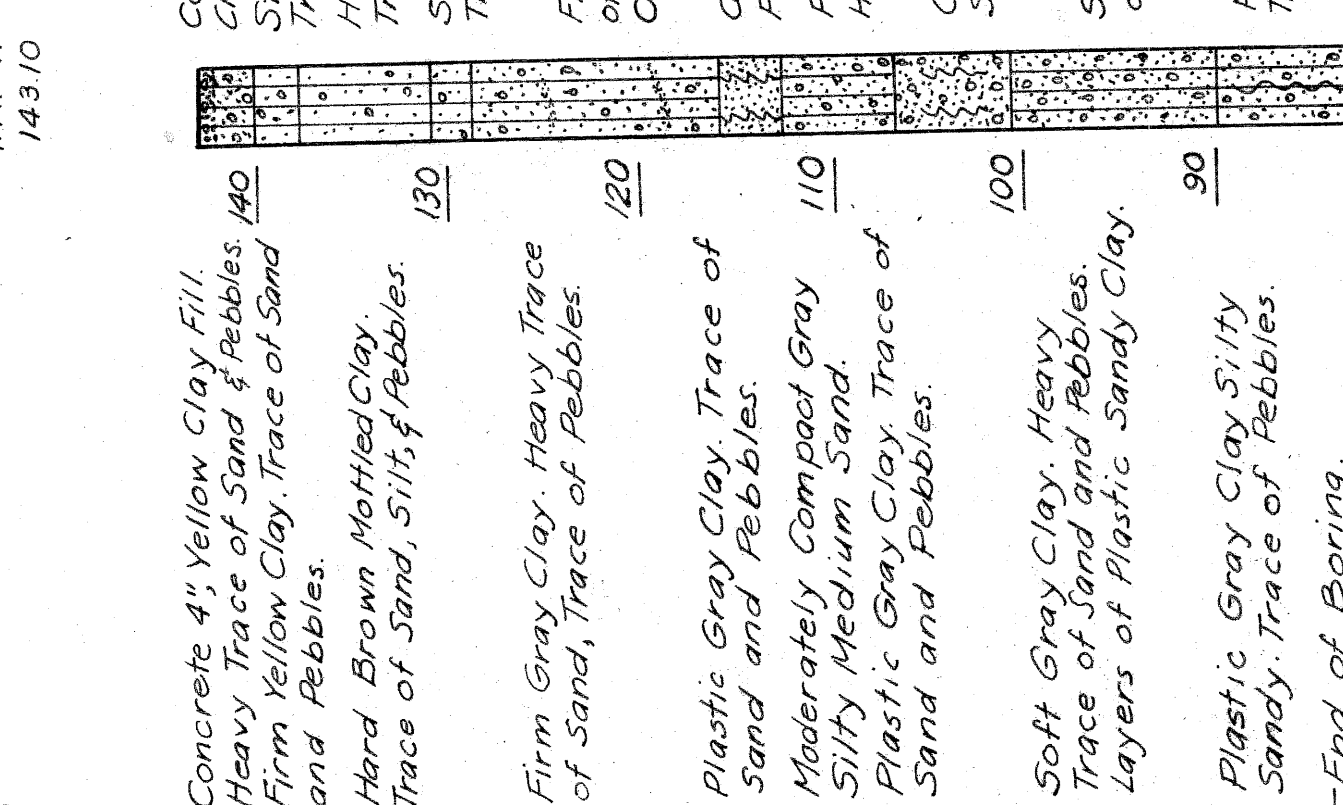
TH #73
142.10



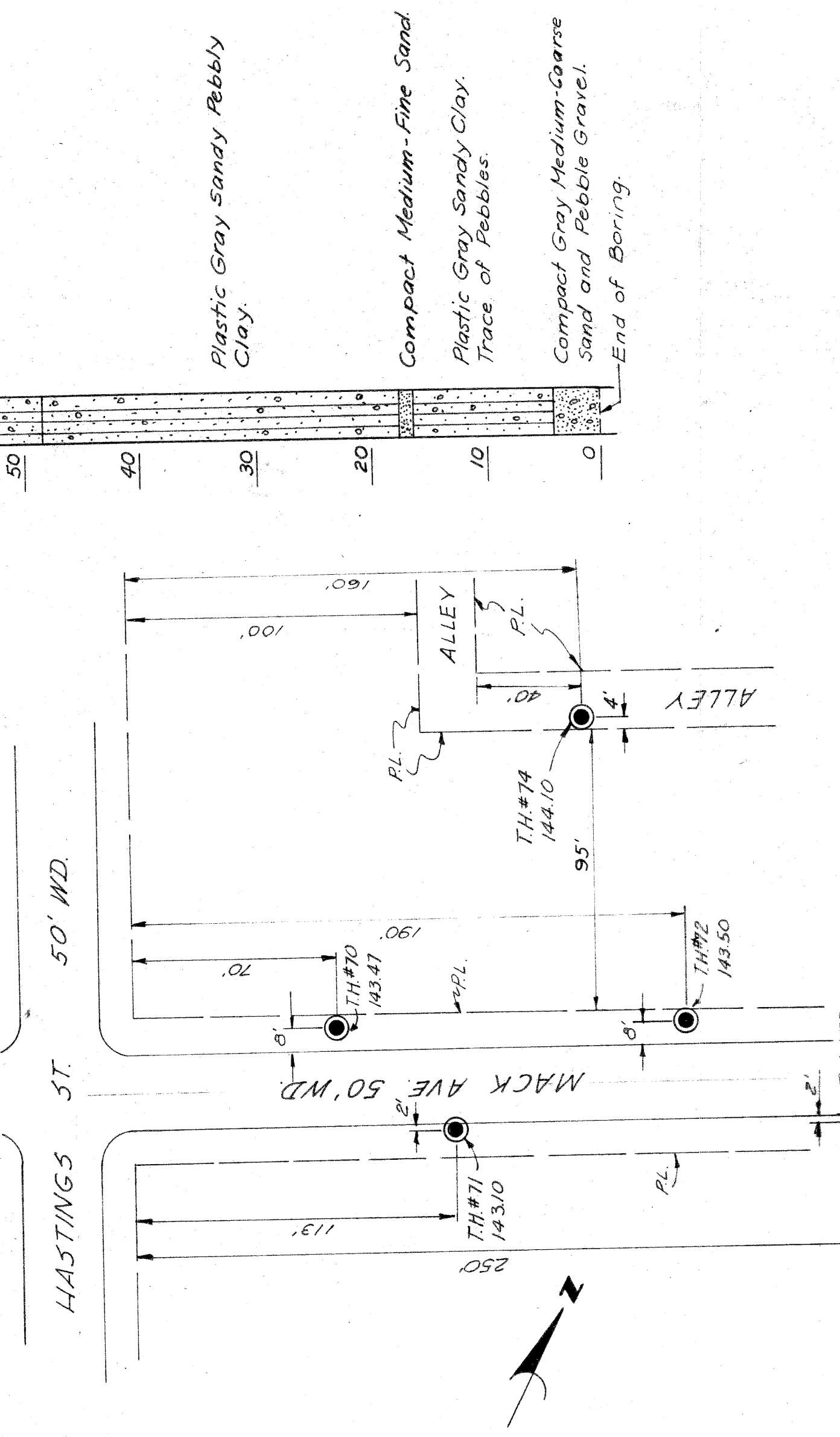
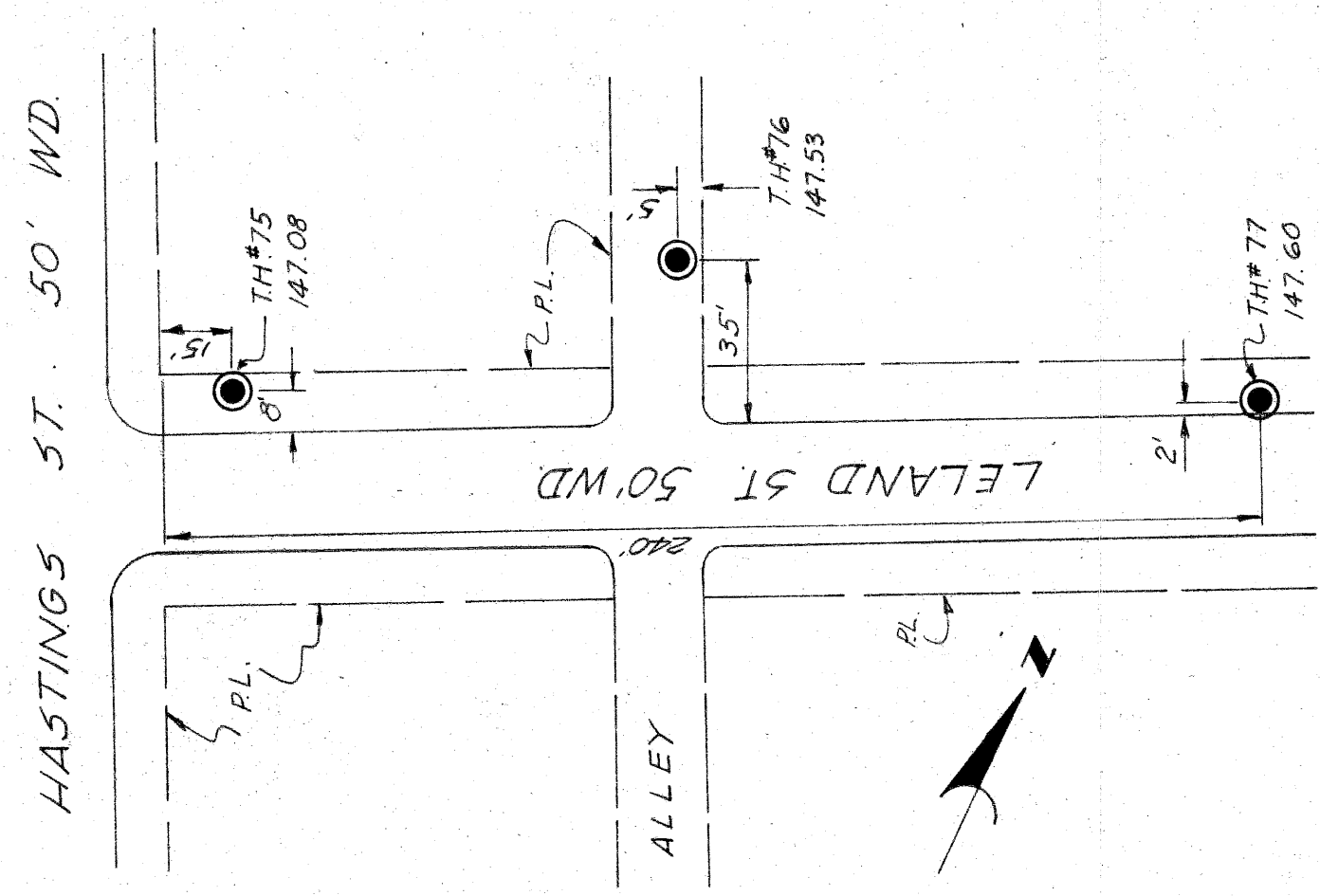
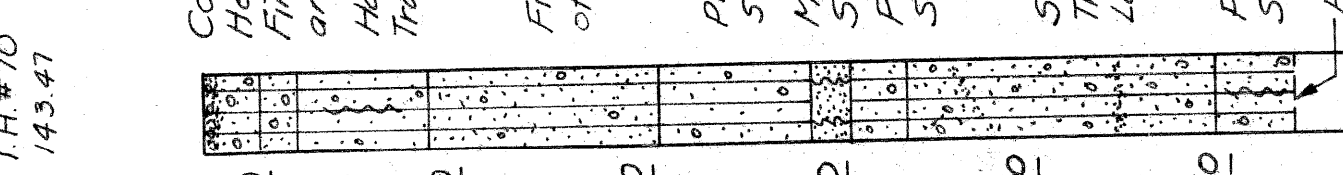
TH #72
143.50



TH #71
143.10



TH #70
143.47



LOG OF BORINGS
MACK AVE. & LELAND ST.

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

PLAN DETR. 60
DATE 1-25-11-25
BY CALVIN F. MURPHY
CHECKED BY M. J. HARRIS
RECOMMENDED FOR APPROVAL

STATE	MICH.	PROJ. NO.	100	SHEET NO.	100
COUNTY	WASHTENAW	DATE	12/27/2017	TOTAL SHEETS	100
ROUTE	4	PROJ. NO.	100	SHEET NO.	100
STATE	MICH.	PROJ. NO.	100	SHEET NO.	100
COUNTY	WASHTENAW	DATE	12/27/2017	TOTAL SHEETS	100
ROUTE	4	PROJ. NO.	100	SHEET NO.	100

Proposed Pavement shown
 Removing Curb shown
 1475 lin. ft. Removing A. Constructed Auth. 1063
 Removing D.S.R. Track Strip
 864 sq. yds.
 Proposed Sidewalk shown

Propus Material Grade A Deleted Auth. 1012
 995 cu. yd. clay used for backfill in
 basement areas Auth. 2002
 Remove Debris from basement areas
 within Ready Backfill with Porous
 Material Grade A
 3446 cu. yds. Earth Excavation
 1912 TONS Porous Material Grade A
 288 cu. yds. Removing Masonry and Concrete

9912.5 sq. yd. Removing old Pavement
 As Constructed Auth. 1063
 3,747 sq. yds. Removing Old Pavement
 5,638
 Replacing Sidewalk shown
 1912 TONS Porous Material Grade A
 As Constructed = 6280 sq. yd.
 Auth. 1063 & Auth. 1063

313.5 sq. yd. Replacing Pavement As Constructed
 Auth. 1063
 Replacing Pavement shown
 149 lin. ft. Conc. Curb Detail 2A
 1475 lin. ft. Conc. Curb Detail 2A As Constructed
 Auth. 1063
 Replacing Sidewalk shown
 3356 sq. yds. Sidewalk
 As Constructed = 3875 sq. ft. Auth. 1063
 Delete 186 sq. yd. 4" Conc. Walk
 & 659 sq. yd. Walk Removal

As Constructed
 87-12 Dia. 32 each
 131-24 Dia. 11 each
 25-36 Dia. 5 each
 37 f More in Dia.
 1 each Auth. 1016
 1 each Auth. 1016
 17 each Auth. 1051
 16 each
 2 each
 Delete 186 sq. yd. 4" Conc. Walk
 & 659 sq. yd. Walk Removal

6" Cyclone Fence
 60 sq. ft. Conc. Walk
 617 sq. yd. Walk Removal

Service Area
 Delete 186 sq. yd. 4" Conc. Walk
 & 659 sq. yd. Walk Removal

Remove
 12" Remove
 12" Remove
 12" Remove
 12" Remove

Remove
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 12" Remove
 12" Remove

Remove
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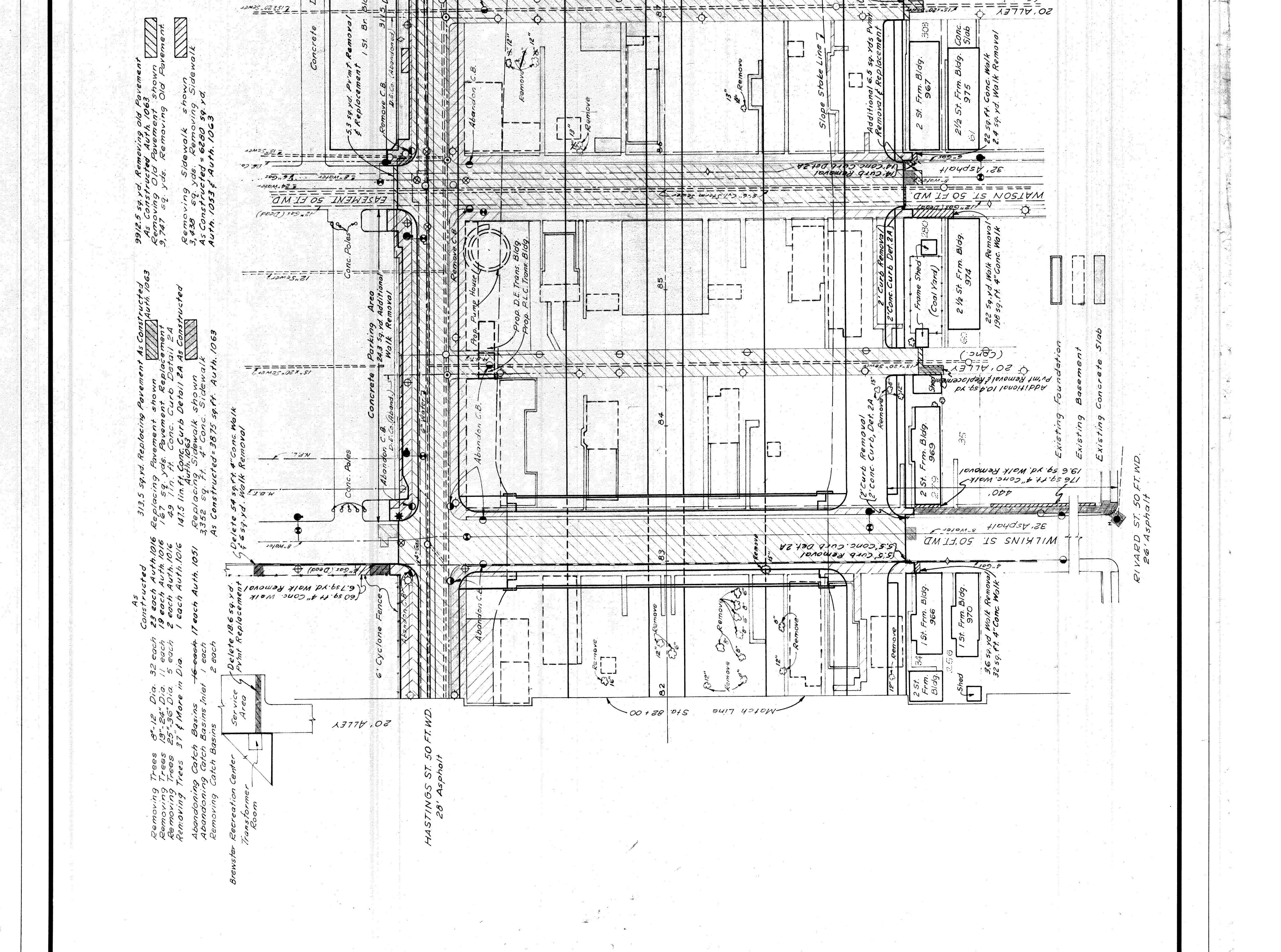
Remove
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 12" Remove

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Remove
 12" Remove
 12" Remove
 12" Remove

Remove
 12" Remove
 12" Remove
 12" Remove



REMOVAL ITEMS
 STA. 82+00 TO STA. 91+50

W-67-1

FILE NO.	17-27-17221
PROJECT	22257
SHEET	100
TOTAL SHEETS	100

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MICH.	1063	1977	17	23
ROUTE	PROJECT	COUNTY	E.T.Y.	SHEET NO.
24	1063	1063	17	17

Porous Material Grade A Deleted Auth 1012
 185 cu yds. Clay used for backfill in
 basement areas. Auth. 2002
 Remove debris from basement
 areas within the limits of the
 East and West Service Roads.
 Backfill with Porous Material
 Grade A.
 2,711 cu yds. Earth Excavation
 2,550 tons Porous Material Grade A
 405 cu yds. Removing Masonry and
 Concrete

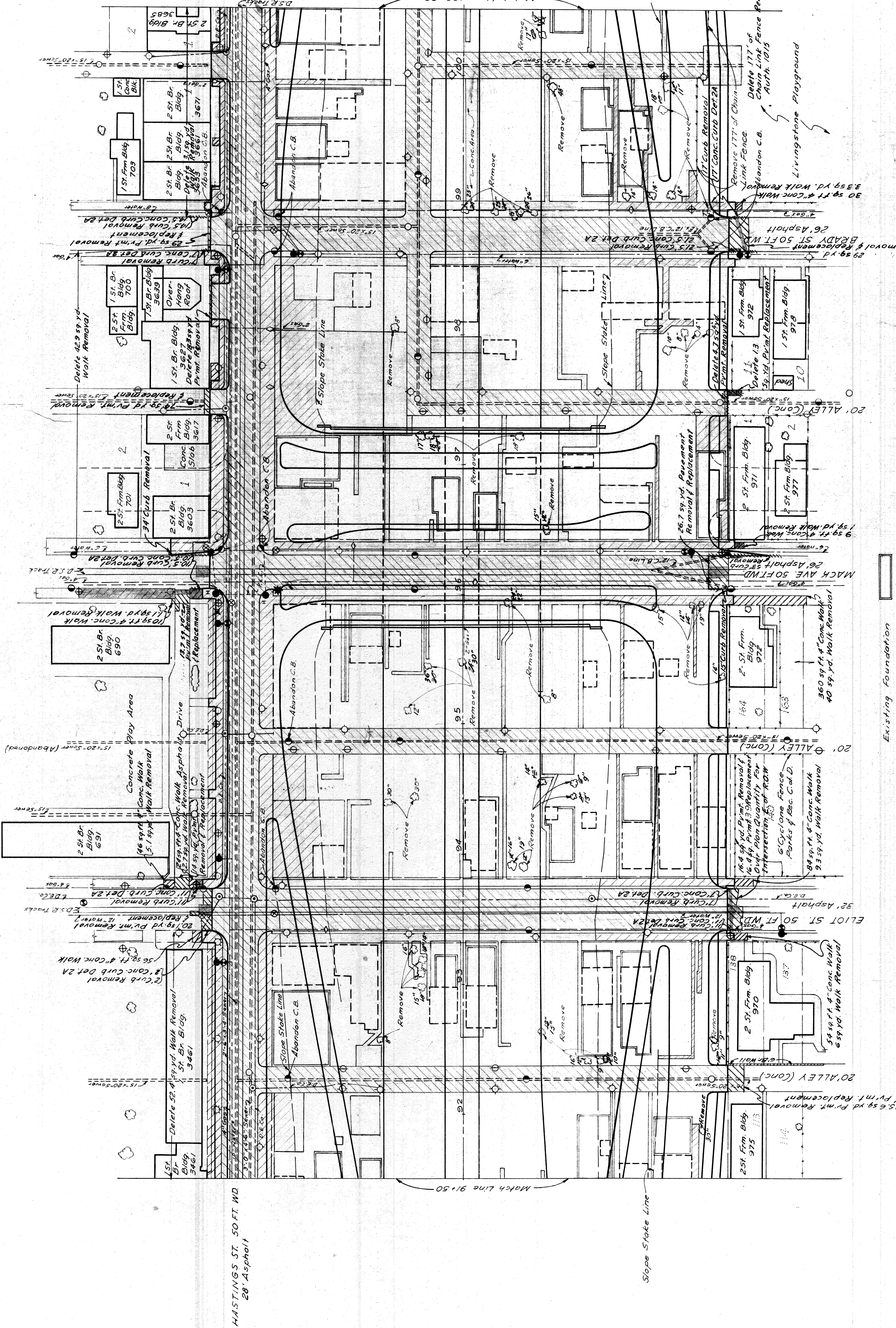
Proposed Pavement shown
 209' x 12' x 12' x 12' x 12' x 12'
 As Constructed Auth 1063
 Removing Curb shown
 140 Lin. Ft. Removing Curb
 Proposed Sidewalk shown

Removing D.S.R. Track Strip
 1,526 sq. yds.

4,544 sq. yd. Removing Old Pavement As Constructed (Auth. 1063)
 Removing Old Pavement shown
 8,412 sq. yds. Removing Old Pavement
 Removing Sidewalk shown
 3,512 sq. yds. Removing Sidewalk
 As Constructed = 6,212 sq. yd. (Auth. 1053 & Auth. 1063)

231,259 yd. Replacing Pavement As Constructed (Auth. 1063)
 Replacing Pavement shown
 95 sq. yds. Pavement Replacement
 42 sq. yds. Conc. Curb Detail As Constructed (Auth. 1063)
 10,171 lin. ft. Conc. Curb Detail As Constructed (Auth. 1063)
 Replacing Sidewalk shown
 720 sq. ft. 4" Concrete Sidewalk
 As Constructed = 1401 sq. ft. Auth. 1063

As Constructed
 22 each 14" each Auth. 1016
 16 each 23" each Auth. 1016
 3 each 8" each Auth. 1016
 1 each 1 each
 Removing Trees 8"-12" Dia.
 Removing Trees 13"-24" Dia.
 Removing Trees 25"-36" Dia.
 Removing Trees 37" Dia. and over
 Abandoning Catch Basins 10 each

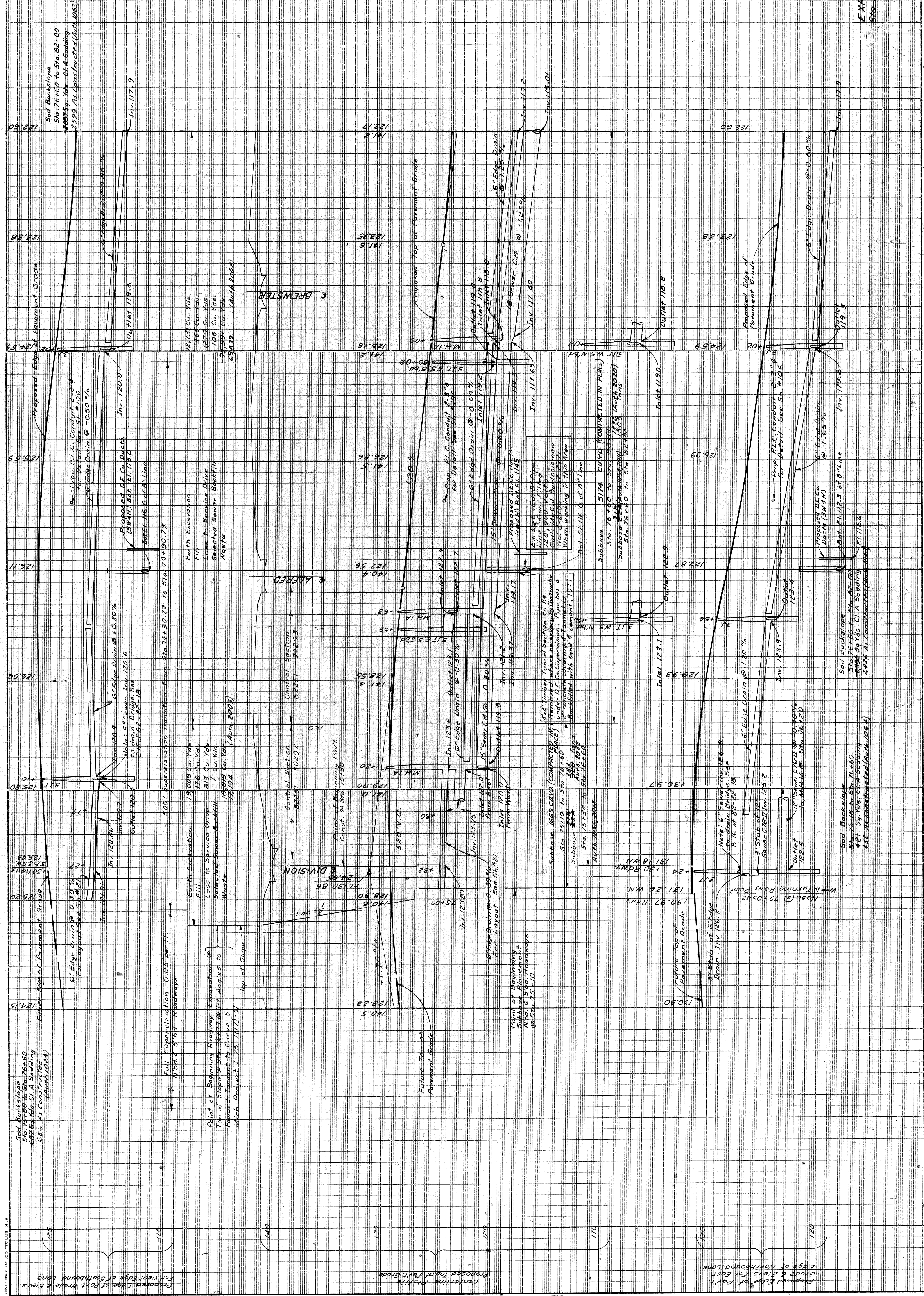


Existing Foundation
 Existing Basement
 Existing Concrete Slab

REMOVAL ITEMS
 STA. 91+50 TO STA. 100+50

PLANS PREPARED BY
 CHERRY - HILLEN
 1-59
 3-59
 4-59
 BUREAU OF HIGHWAYS AND EXPRESSWAYS
 CITY ENGINEERS OFFICE
 RECOMMENDED FOR APPROVAL
 M. H. HARRIS
 1-59
 3-59
 4-59

STATE	MI.	ROUTE	82251	CITY	Wayne	PROJECT	Wayne Detroit 22	SHEET NO.	22	TOTAL SHEETS	22
STATE	MI.	ROUTE	82251	CITY	Wayne	PROJECT	Wayne Detroit 22	SHEET NO.	22	TOTAL SHEETS	22



EXPRESSWAY PROFILE
Sta. 75+00 to Sta. 82+00

PLANNING	PROJECT	DATE
DESIGN	PROGRESS	12-15-71
CHECKED	APPROVED	12-15-71

W-67-1

DATE	BY	OPERATION
12-15-71	...	...
12-15-71	...	...
12-15-71	...	...

PLANS PREPARED BY

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE

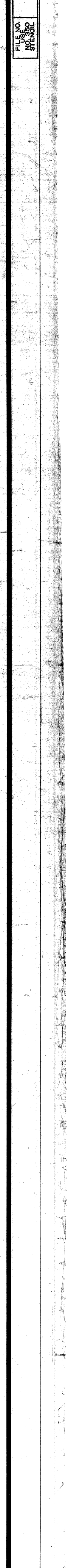
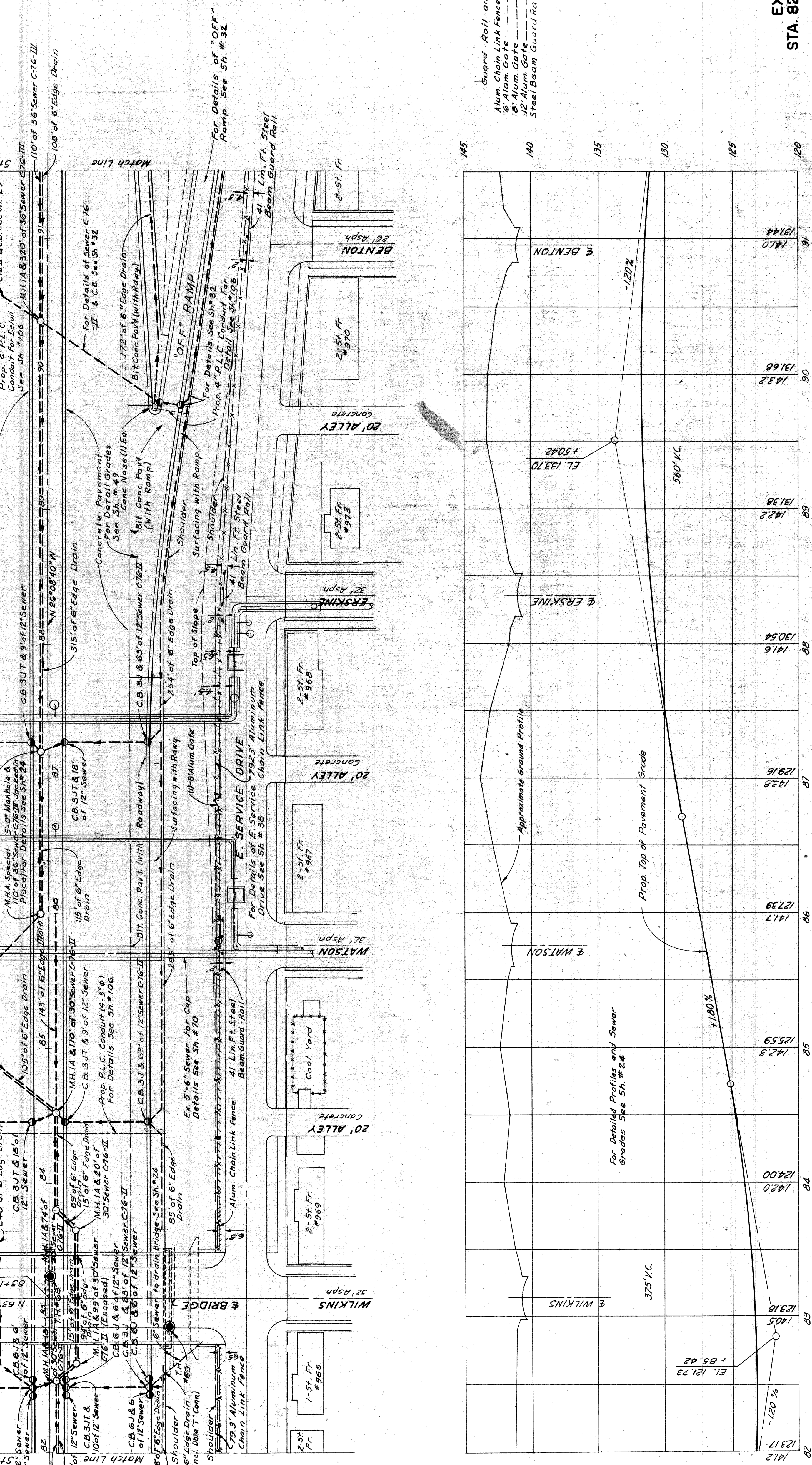
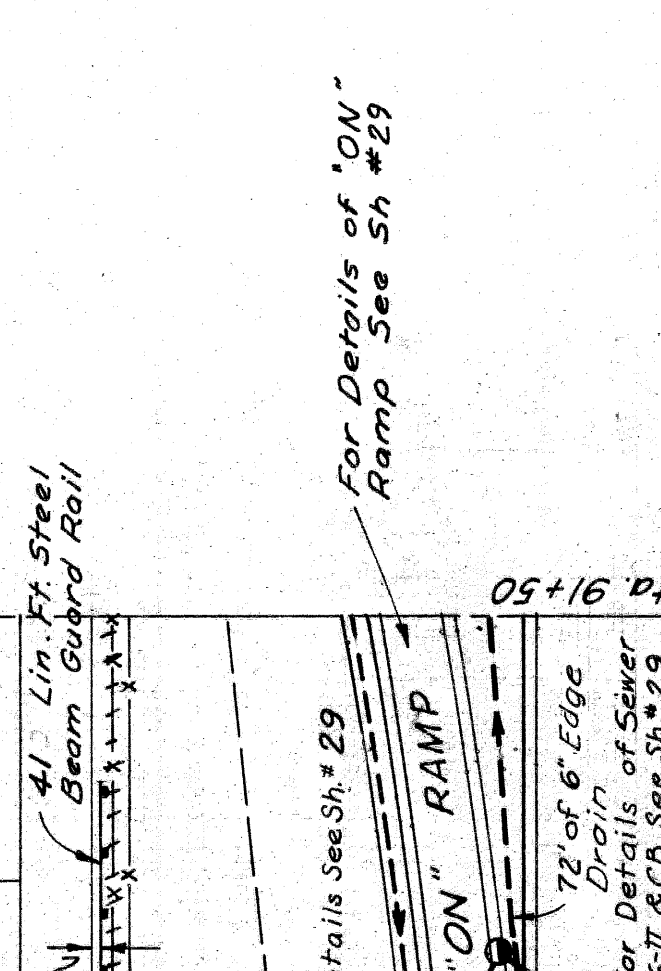
RECOMMENDED FOR APPROVAL

APPROVED BY

DATE

DATE	BY	OPERATION
12-15-71	...	...
12-15-71	...	...
12-15-71	...	...

DIV. NO.	STATE	PROJ. NO.	YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	22251	1957	23	23
ROUTE	CITY	COUNTY	PROJECT	SHEET NO.	TOTAL SHEETS
4	WATSON	WATSON	EXPRESSWAY ITEMS	23	23



STATION	ELEVATION (FEET)
82+00	121.73
82+10	123.18
82+20	124.00
82+30	125.59
82+40	127.39
82+50	129.16
82+60	130.54
82+70	131.68
82+80	132.82
82+90	134.10
82+91	134.44

EXPRESSWAY ITEMS
 STA. 82+00 TO STA. 91+50
 W-67-1

PLANS PREPARED BY
 CITY OF BENTON
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

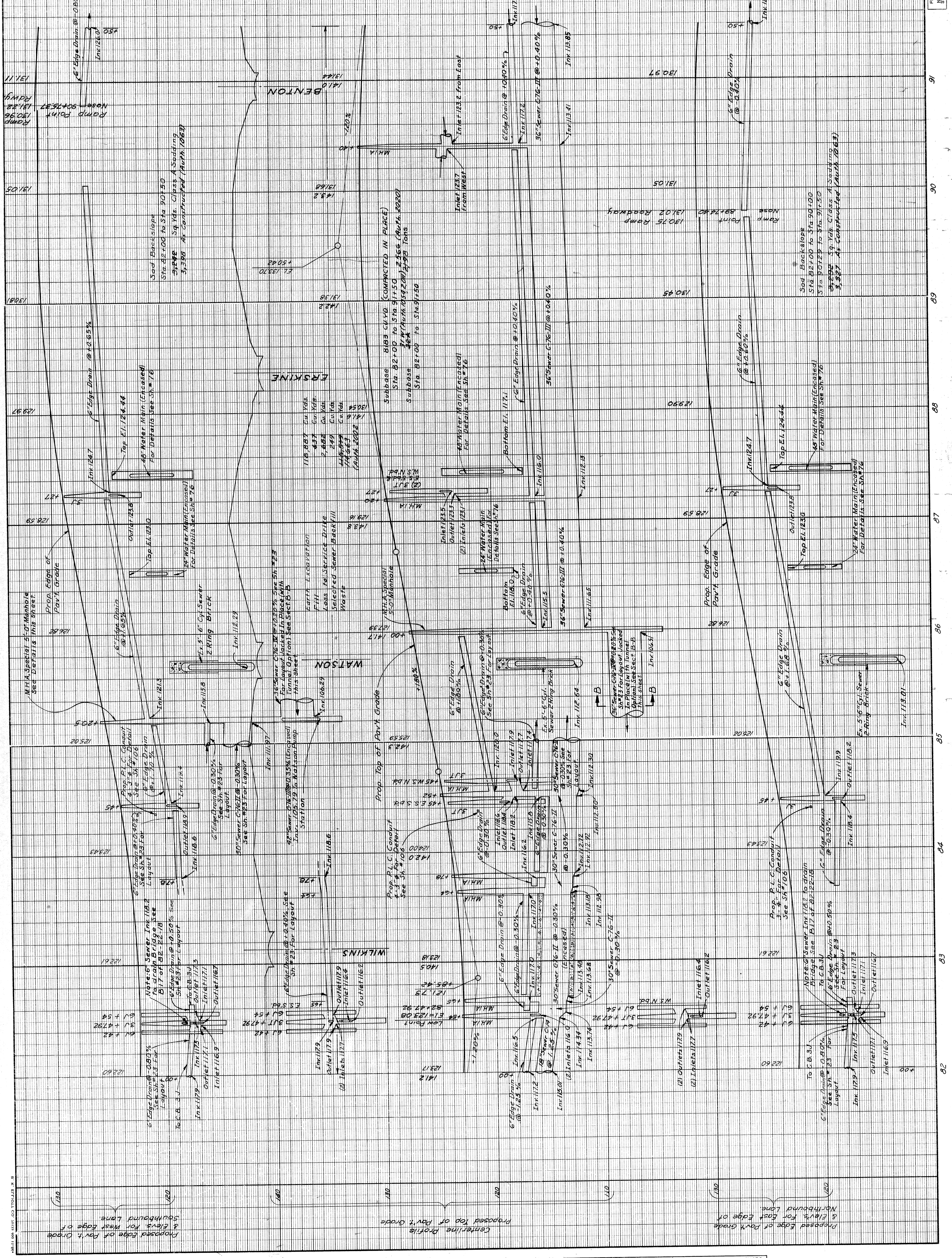
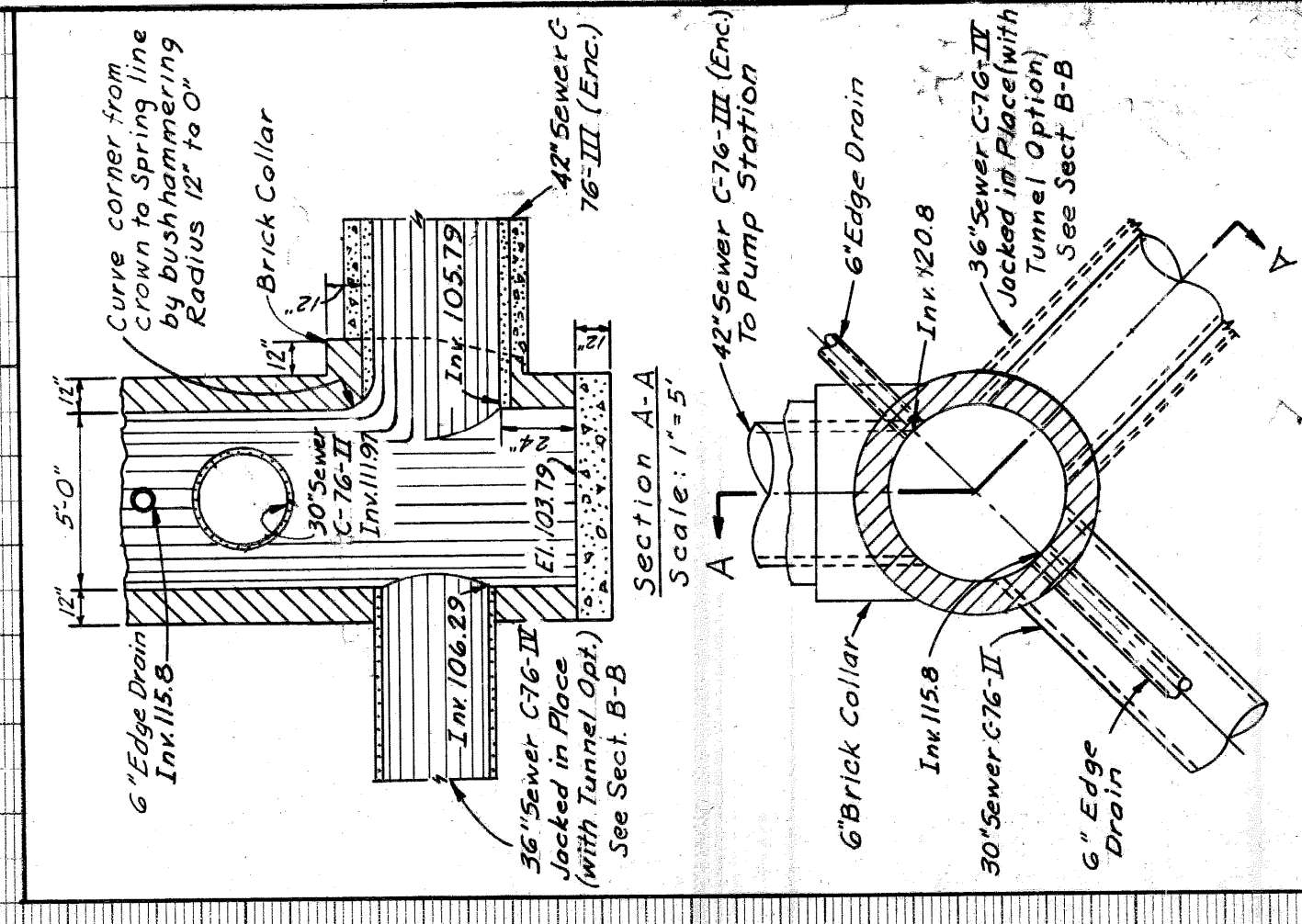
DESIGNED BY
 KIRK A. KNOX
 1-23

CHECKED BY
 KIRK A. KNOX
 1-23

APPROVED BY
 [Signature]

Guard Rail and Fence (This Sheet)
 Alum. Chain Link Fence (4'0" high) --- 1758 Lin. Ft. (175' L.F. with 1043
 6" Alum. Gate --- 1 Each
 8" Alum. Gate --- 1 Each
 12" Alum. Gate --- 1 Each
 Steel Beam Guard Rail --- 246' Lin. Ft. 246 Lin. Ft.

STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
MI	82251	67	124
CITY	COUNTY	SHEET NO.	TOTAL SHEETS
Detroit	Wayne	67	124
STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
MI	82251	67	124
CITY	COUNTY	SHEET NO.	TOTAL SHEETS
Detroit	Wayne	67	124



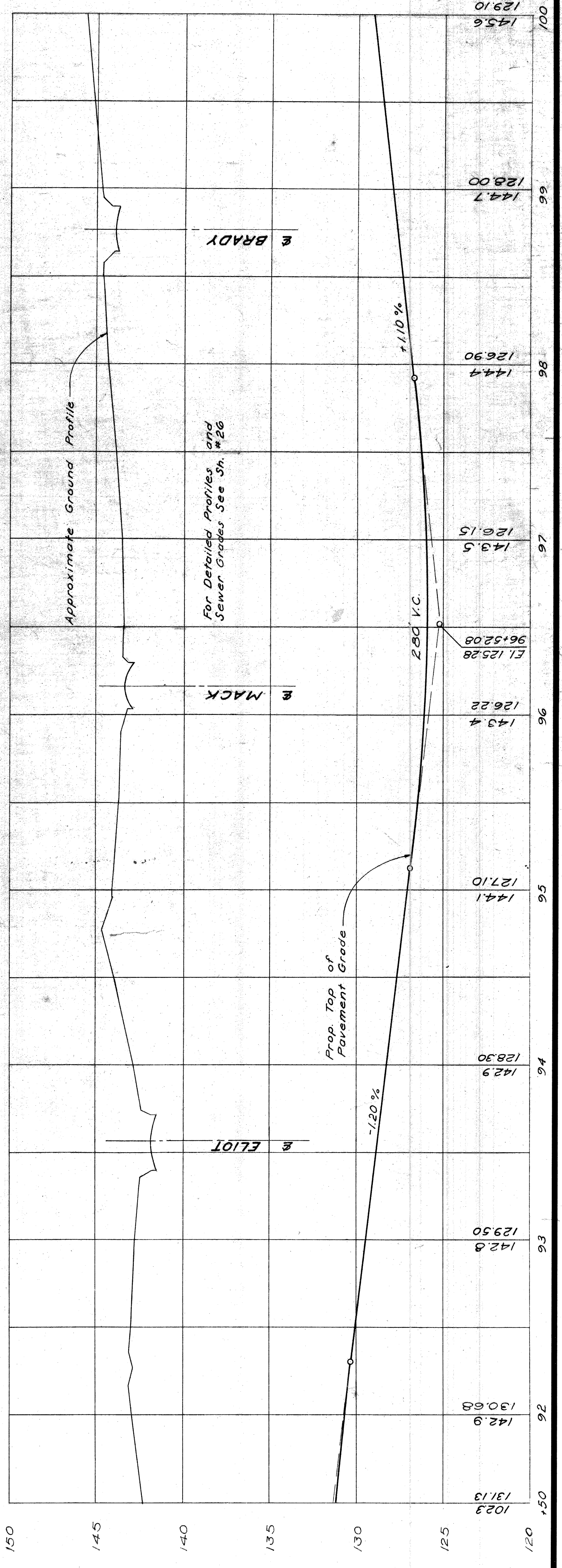
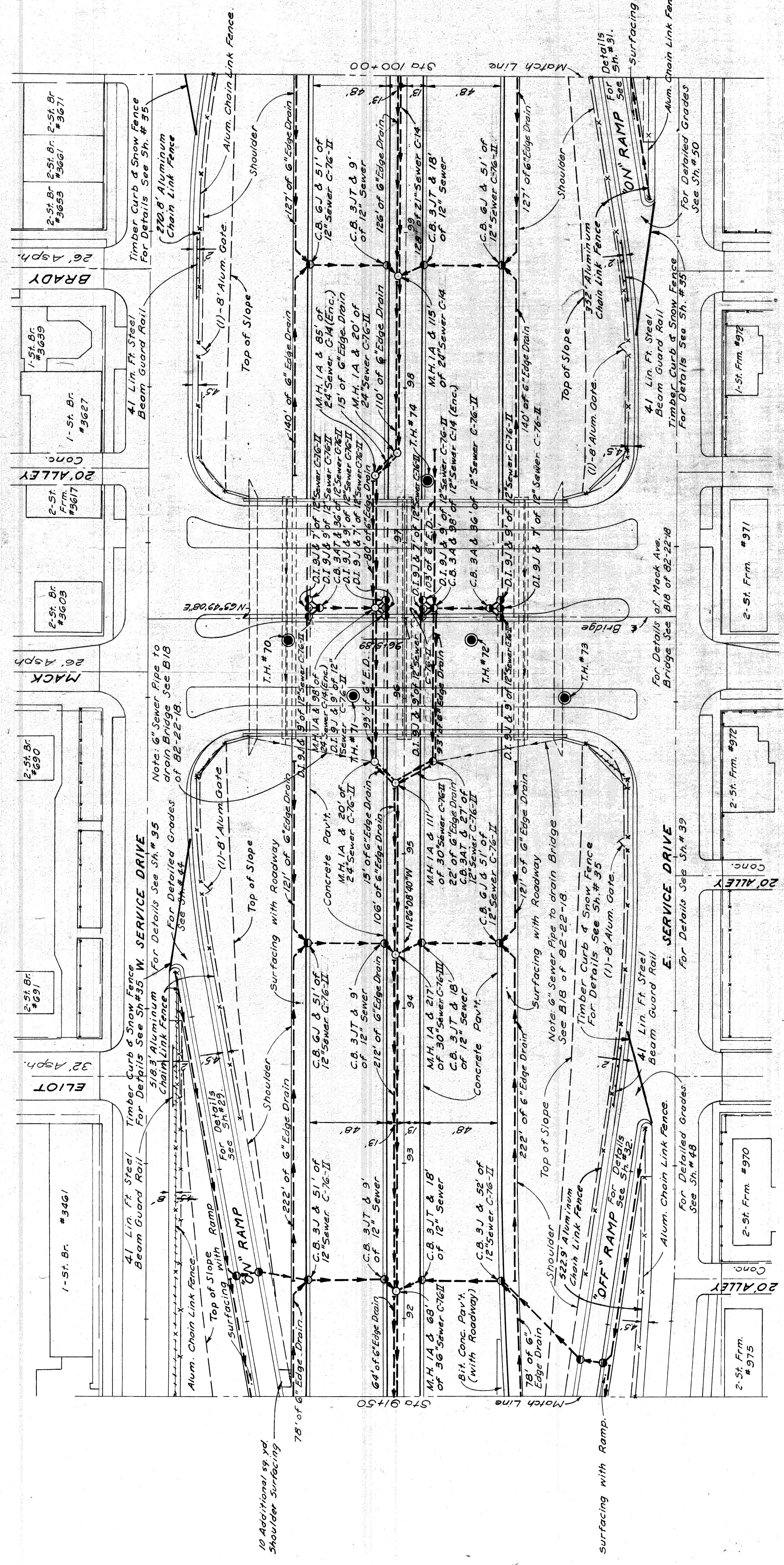
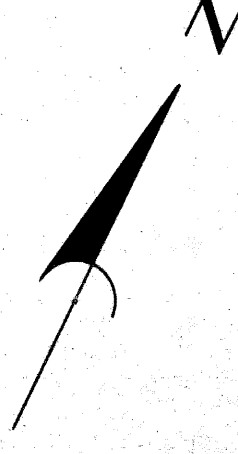
DATE	BY	OPERATION

DATE	BY	OPERATION

DATE	BY	OPERATION

PROJECT: EXPRESSWAY
SHEET NO.: 67-1
FILE NO.: 82251-173-173-124

STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
MICH.	82251	25	25
CITY	COUNTY	YEAR	DATE
Detroit	Wayne	1957	10/25



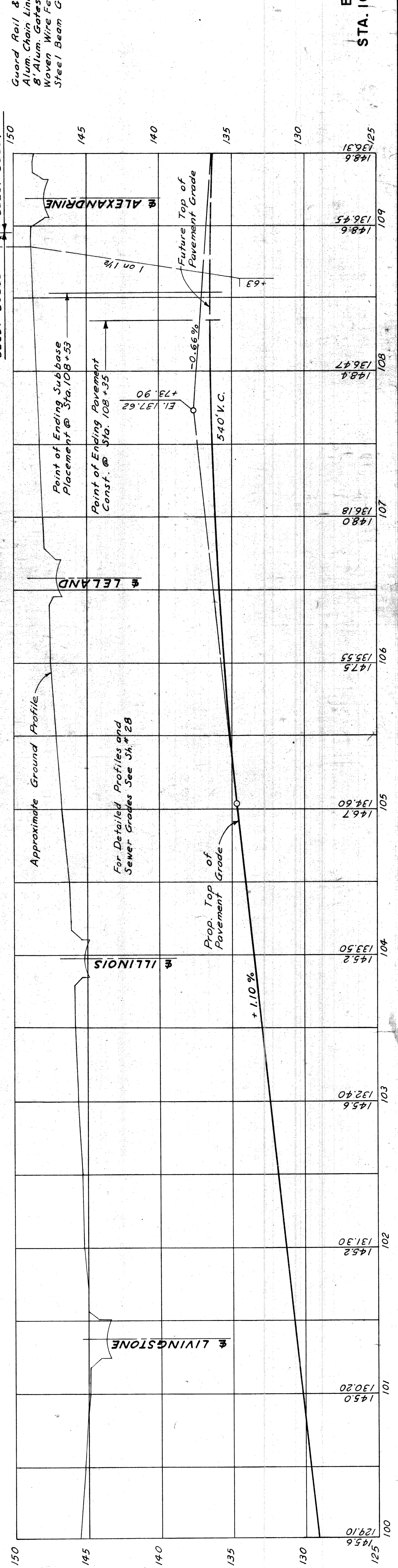
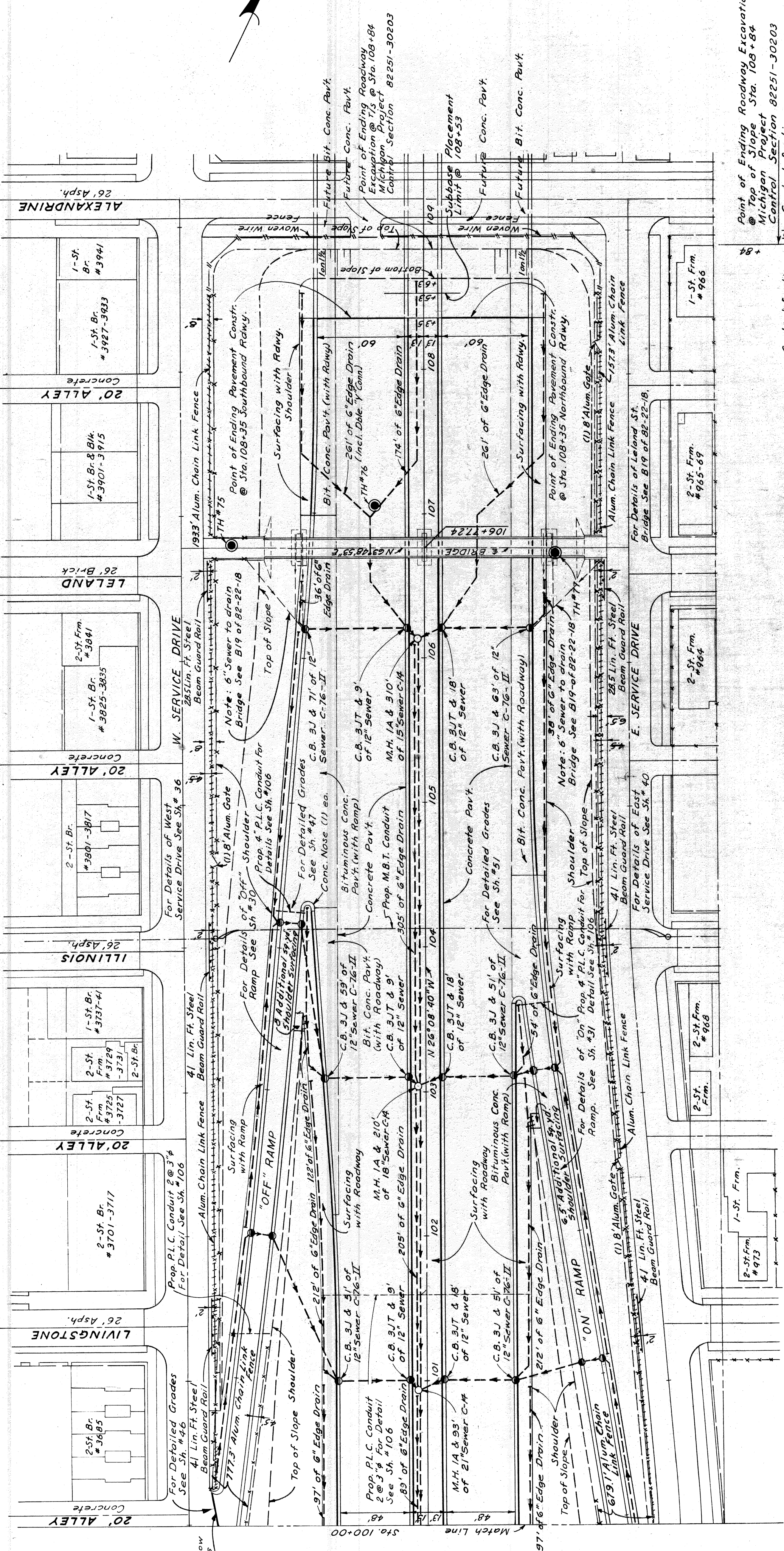
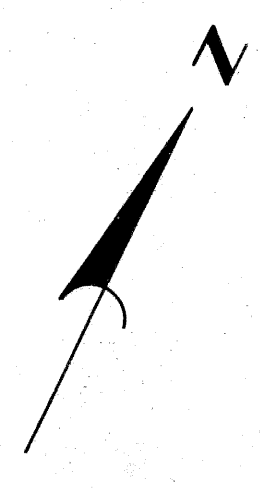
Guard Rail and Fence (This Sheet)
 Alum. Chain Link Fence (4'-0" High)
 1659 Lin. Ft. 1668 Lin. Ft. (105)
 4 Each
 Street Beam Guard Rail
 164 Lin. Ft. 164 Lin. Ft.

EXPRESSWAY ITEMS
 STA. STA. 91+50 TO STA. 100+00

DATE	BY	REVISION
10/25/57	W. E. BROWN	PLAN CHECKED
10/25/57	W. E. BROWN	DESIGNED
10/25/57	W. E. BROWN	APPROVED FOR APPROVAL

PLANS PREPARED BY
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

STATE	PROJ. NO.	YEAR	SHEET NO.	TOTAL SHEETS
MICH.	82251	1954	27	27
CITY	COUNTY	ROUTE	PROJECT	
Wayne	Detroit	27		



Guard Rail & Fencing (This Sheet)
 Alum. Chain Link Fence (4'-0" High) --- 1750 Lin. Ft. 1807 L.F. (Each)
 8 Alum. Gates --- 3 Each
 Woven Wire Fence --- 20 Lin. Rods 20 Lin. Rod
 Steel Beam Guard Rail --- 221 Lin. Ft. 221 Lin. Ft.

Point of Ending Roadway Excavation
 @ Top of Slope Sta. 108+84
 Michigan Project Control Section 82251-30203

Point of Ending Roadway Excavation
 @ Top of Slope Sta. 108+84
 Michigan Project Control Section 82251-30204

Point of Ending Subbase Placement @ Sta. 108+35
 Point of Ending Pavement Const. @ Sta. 108+35

Approximate Ground Profile
 For Detailed Profiles and Sewer Grades See Sh. # 28

Prop. Top Pavement Grade
 +1.10%

EXPRESSWAY ITEMS
 STA. 100+00 TO STA. 109+50

W-67-1

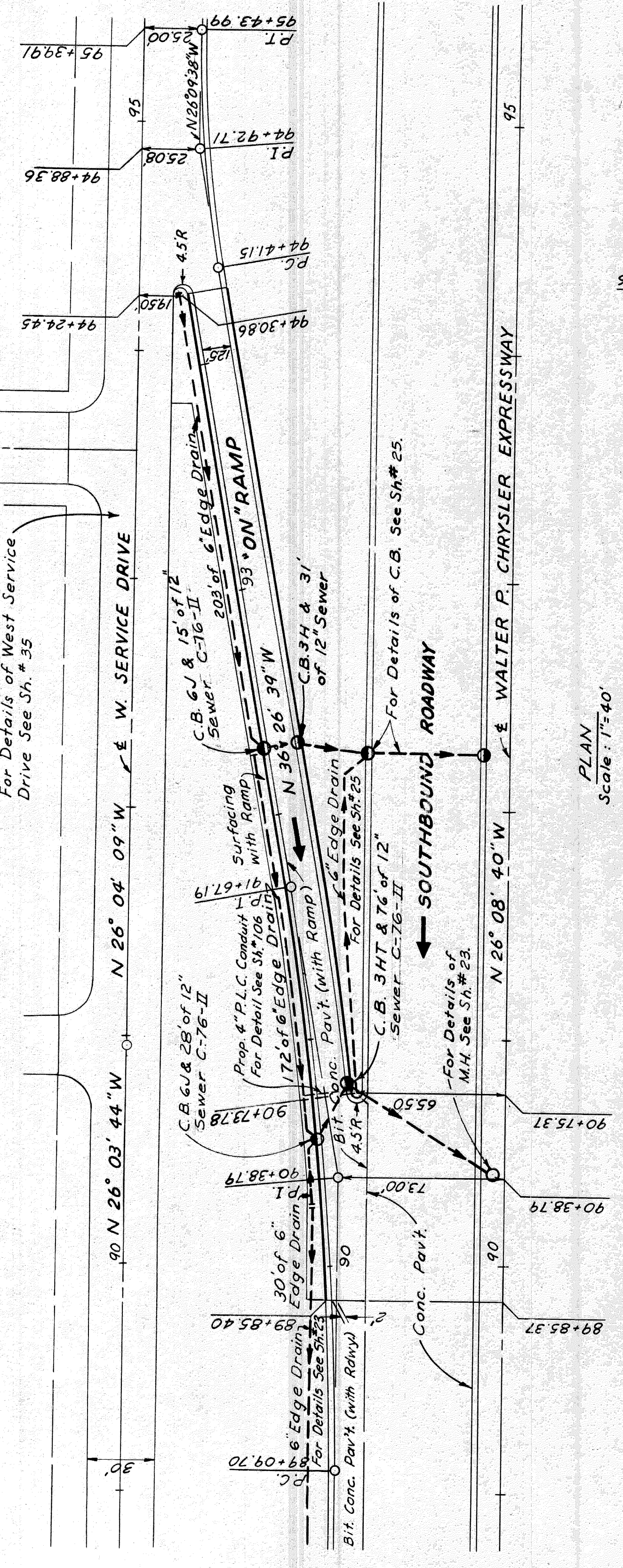
DATE	BY	REVISION
1-23	CHEN, L.	REVISED FOR APPROVAL
1-23	LEWIS, R.	REVISED FOR APPROVAL
1-23	LEWIS, R.	REVISED FOR APPROVAL

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

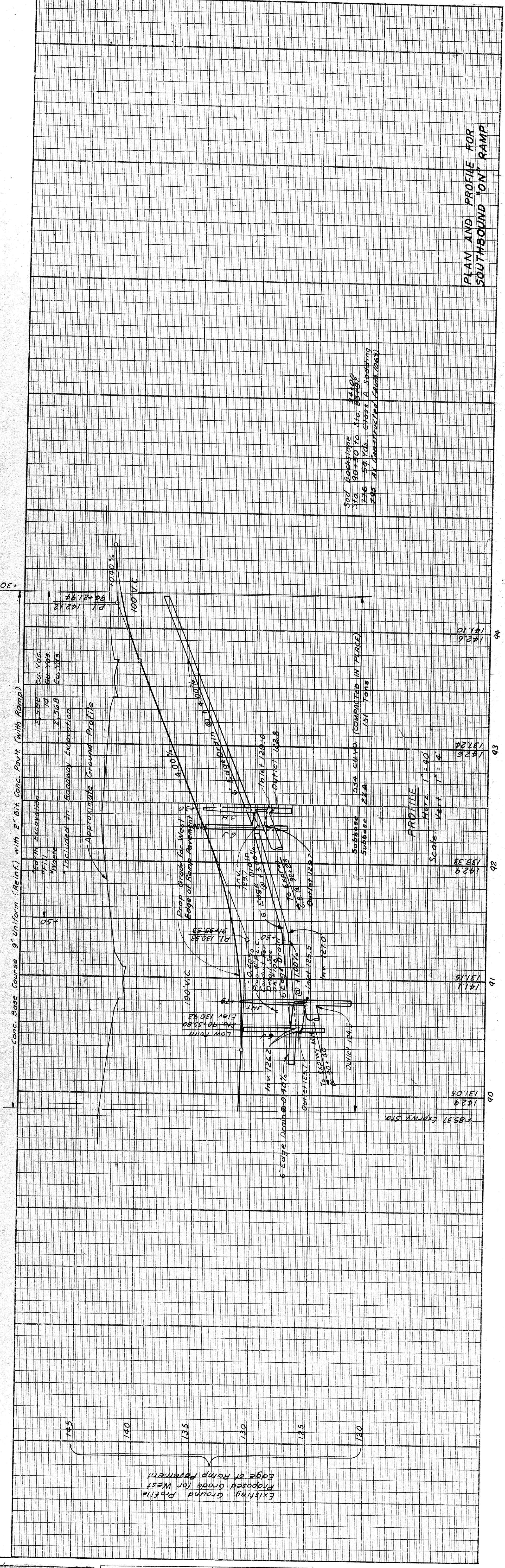
STATE	MICH.	FISCAL YEAR	1957	SHEET NO.	29	TOTAL SHEETS	30
COUNTY	Wayne	CITY	Detroit	PROJECT	W-67-1		
ROUTE	4						

On Ramp Curve Data
 A = 10° 17' 01"
 D = 10° 00' 00"
 R = 57296'
 T = 5156'
 L = 10284'
 P.C. = 94+41.5
 P.T. = 95+43.99
 E = 2.32

On Ramp Curve Data
 A = 10° 17' 01"
 D = 10° 00' 00"
 R = 57296'
 T = 5156'
 L = 10284'
 P.C. = 94+41.5
 P.T. = 95+43.99
 E = 2.32



PLAN
 Scale: 1"=40'



PROFILE
 Scale: 1"=40'

PLAN AND PROFILE FOR SOUTHBOUND "ON" RAMP

DATE	BY	OPERATION
1/20/57	CHRYSLER	PLAN CHECKED
1/20/57	CHRYSLER	PLAN DRAWN
1/20/57	CHRYSLER	PLAN CHECKED
1/20/57	CHRYSLER	FINAL DESIGN CHECKED
1/20/57	CHRYSLER	FINAL R.O.W. CHECK
1/20/57	CHRYSLER	QUANTITIES CHECKED
1/20/57	CHRYSLER	RECOMMENDED FOR APPROVAL

DATE	BY	OPERATION
1/20/57	CHRYSLER	PLAN CHECKED
1/20/57	CHRYSLER	PLAN DRAWN
1/20/57	CHRYSLER	PLAN CHECKED
1/20/57	CHRYSLER	FINAL DESIGN CHECKED
1/20/57	CHRYSLER	FINAL R.O.W. CHECK
1/20/57	CHRYSLER	QUANTITIES CHECKED
1/20/57	CHRYSLER	RECOMMENDED FOR APPROVAL

PREPARED BY
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

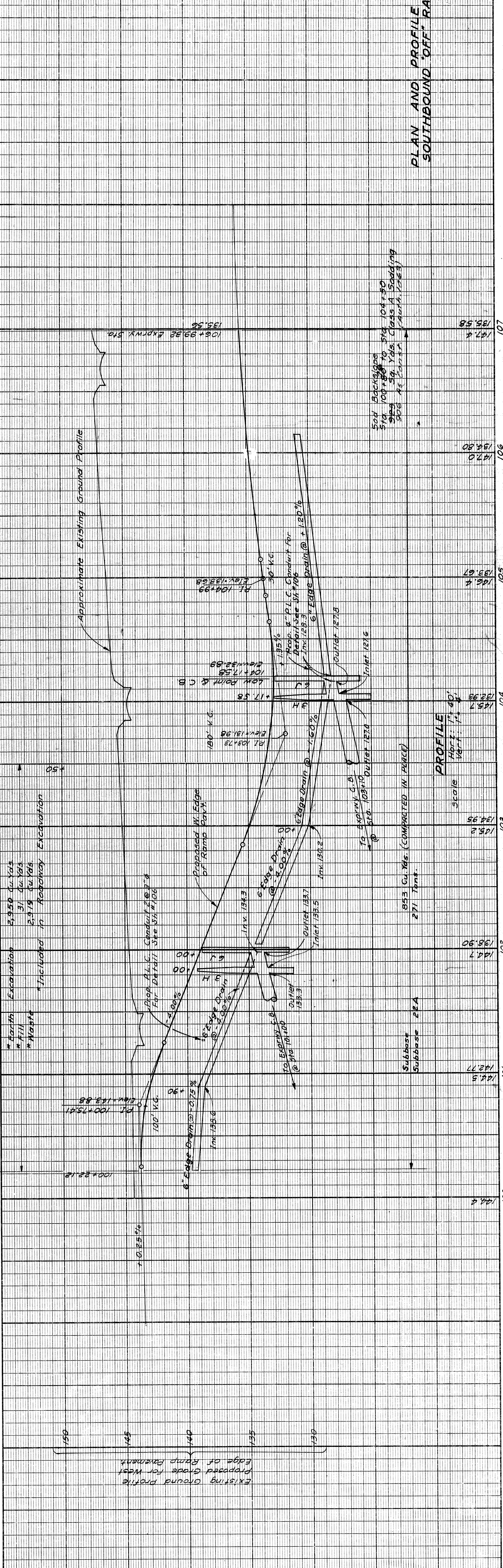
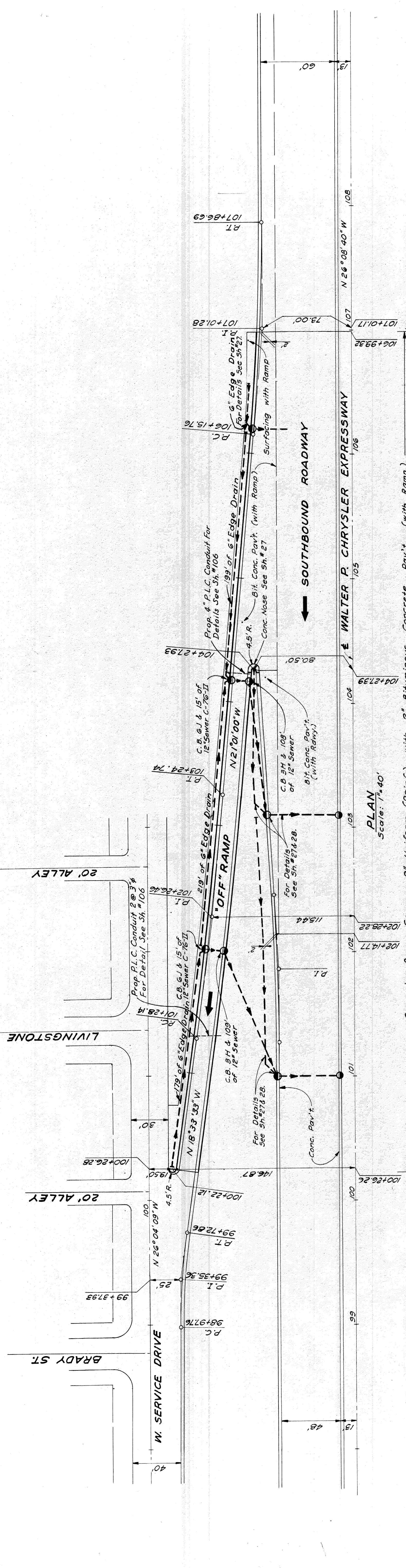
DATE	BY	OPERATION
1/20/57	CHRYSLER	PLAN CHECKED
1/20/57	CHRYSLER	PLAN DRAWN
1/20/57	CHRYSLER	PLAN CHECKED
1/20/57	CHRYSLER	FINAL DESIGN CHECKED
1/20/57	CHRYSLER	FINAL R.O.W. CHECK
1/20/57	CHRYSLER	QUANTITIES CHECKED
1/20/57	CHRYSLER	RECOMMENDED FOR APPROVAL

STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
MICH.	52251	30	30
CITY	COUNTY	ROUTE	PROJ. NO.
Detroit	Wayne	4	52251

Off Ramp Curve Data
 D = 5707.00'
 R = 300.00'
 A = 1909.86'
 T = 65.52'
 L = 702.93'
 P.C. = 101+82.14
 P.T. = 107+86.63
 E = 1.91'

Mistake Lane Curve Data
 D = 5707.00'
 R = 300.00'
 A = 1909.86'
 T = 65.52'
 L = 702.93'
 P.C. = 101+82.14
 P.T. = 107+86.63
 E = 1.91'

Off Ramp Curve Data
 D = 730.36'
 R = 100.00'
 A = 572.96'
 T = 54.00'
 L = 54.00'
 P.C. = 98+97.76
 P.T. = 99+55.56
 E = 1.25'



PLAN AND PROFILE FOR
SOUTHBOUND "OFF" RAMP

OPERATOR PRELIMINARY R.O.W. CHECKED FINAL DESIGN CHECKED FINAL DESIGN PLAN DESIGNED PLAN NO. 7 PLAN NO. 8 PLAN NO. 9 PLAN NO. 10 PLAN NO. 11 PLAN NO. 12 PLAN NO. 13 PLAN NO. 14 PLAN NO. 15 PLAN NO. 16 PLAN NO. 17 PLAN NO. 18 PLAN NO. 19 PLAN NO. 20 PLAN NO. 21 PLAN NO. 22 PLAN NO. 23 PLAN NO. 24 PLAN NO. 25 PLAN NO. 26 PLAN NO. 27 PLAN NO. 28 PLAN NO. 29 PLAN NO. 30 PLAN NO. 31 PLAN NO. 32 PLAN NO. 33 PLAN NO. 34 PLAN NO. 35 PLAN NO. 36 PLAN NO. 37 PLAN NO. 38 PLAN NO. 39 PLAN NO. 40 PLAN NO. 41 PLAN NO. 42 PLAN NO. 43 PLAN NO. 44 PLAN NO. 45 PLAN NO. 46 PLAN NO. 47 PLAN NO. 48 PLAN NO. 49 PLAN NO. 50 PLAN NO. 51 PLAN NO. 52 PLAN NO. 53 PLAN NO. 54 PLAN NO. 55 PLAN NO. 56 PLAN NO. 57 PLAN NO. 58 PLAN NO. 59 PLAN NO. 60 PLAN NO. 61 PLAN NO. 62 PLAN NO. 63 PLAN NO. 64 PLAN NO. 65 PLAN NO. 66 PLAN NO. 67 PLAN NO. 68 PLAN NO. 69 PLAN NO. 70 PLAN NO. 71 PLAN NO. 72 PLAN NO. 73 PLAN NO. 74 PLAN NO. 75 PLAN NO. 76 PLAN NO. 77 PLAN NO. 78 PLAN NO. 79 PLAN NO. 80 PLAN NO. 81 PLAN NO. 82 PLAN NO. 83 PLAN NO. 84 PLAN NO. 85 PLAN NO. 86 PLAN NO. 87 PLAN NO. 88 PLAN NO. 89 PLAN NO. 90 PLAN NO. 91 PLAN NO. 92 PLAN NO. 93 PLAN NO. 94 PLAN NO. 95 PLAN NO. 96 PLAN NO. 97 PLAN NO. 98 PLAN NO. 99 PLAN NO. 100 PLAN NO. 101 PLAN NO. 102 PLAN NO. 103 PLAN NO. 104 PLAN NO. 105 PLAN NO. 106 PLAN NO. 107 PLAN NO. 108 PLAN NO. 109 PLAN NO. 110 PLAN NO. 111 PLAN NO. 112 PLAN NO. 113 PLAN NO. 114 PLAN NO. 115 PLAN NO. 116 PLAN NO. 117 PLAN NO. 118 PLAN NO. 119 PLAN NO. 120 PLAN NO. 121 PLAN NO. 122 PLAN NO. 123 PLAN NO. 124 PLAN NO. 125 PLAN NO. 126 PLAN NO. 127 PLAN NO. 128 PLAN NO. 129 PLAN NO. 130 PLAN NO. 131 PLAN NO. 132 PLAN NO. 133 PLAN NO. 134 PLAN NO. 135 PLAN NO. 136 PLAN NO. 137 PLAN NO. 138 PLAN NO. 139 PLAN NO. 140 PLAN NO. 141 PLAN NO. 142 PLAN NO. 143 PLAN NO. 144 PLAN NO. 145 PLAN NO. 146 PLAN NO. 147 PLAN NO. 148 PLAN NO. 149 PLAN NO. 150 PLAN NO. 151 PLAN NO. 152 PLAN NO. 153 PLAN NO. 154 PLAN NO. 155 PLAN NO. 156 PLAN NO. 157 PLAN NO. 158 PLAN NO. 159 PLAN NO. 160 PLAN NO. 161 PLAN NO. 162 PLAN NO. 163 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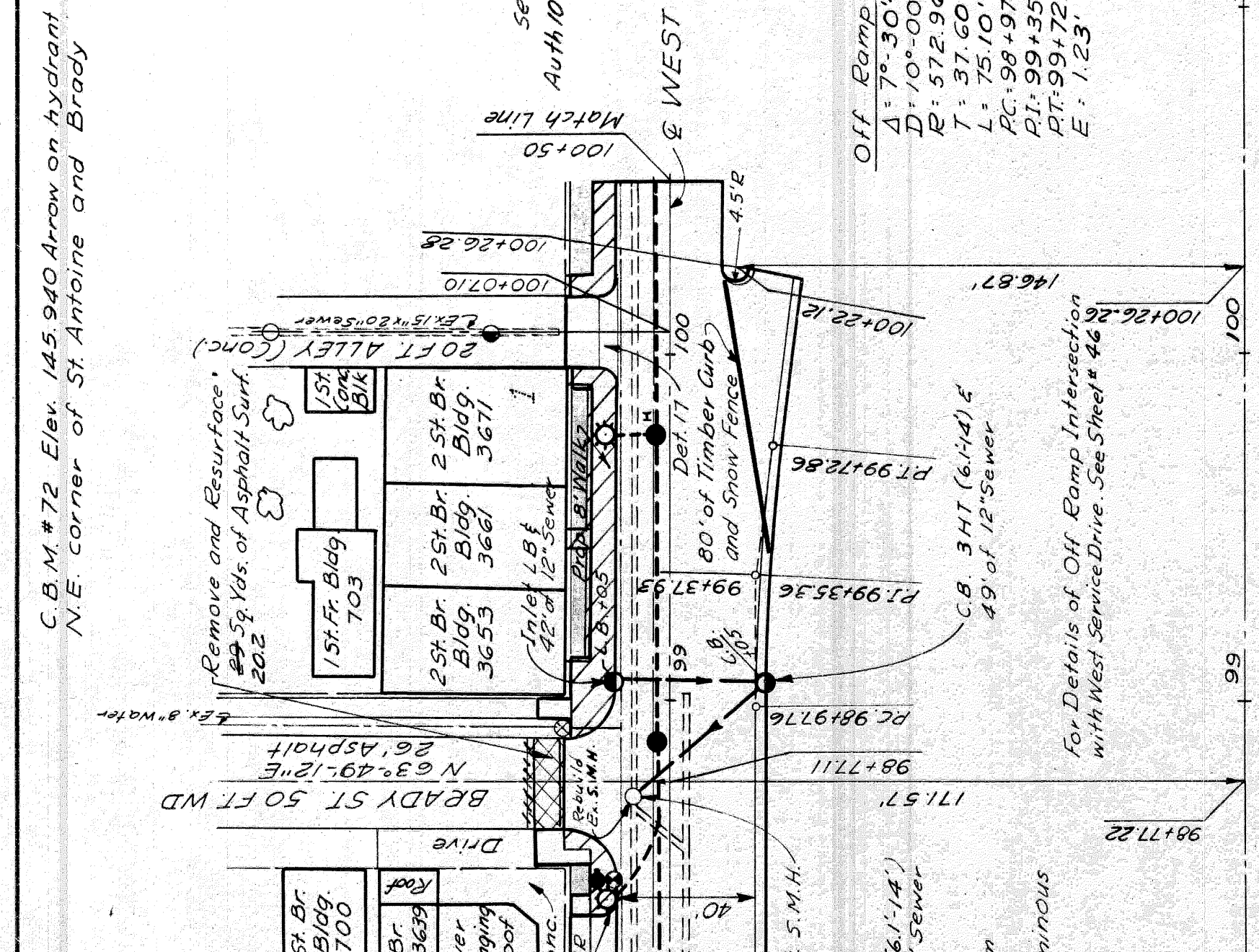
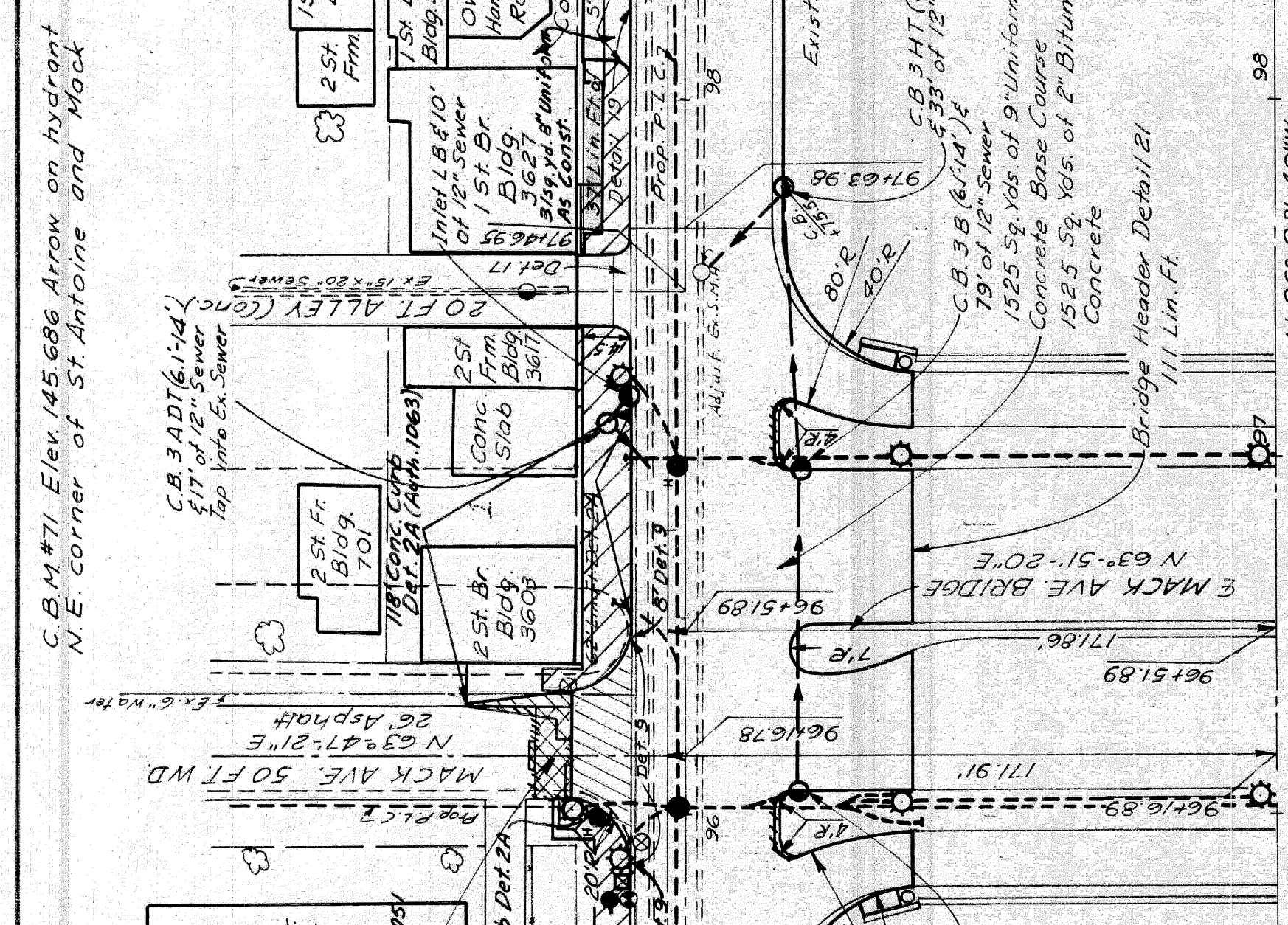
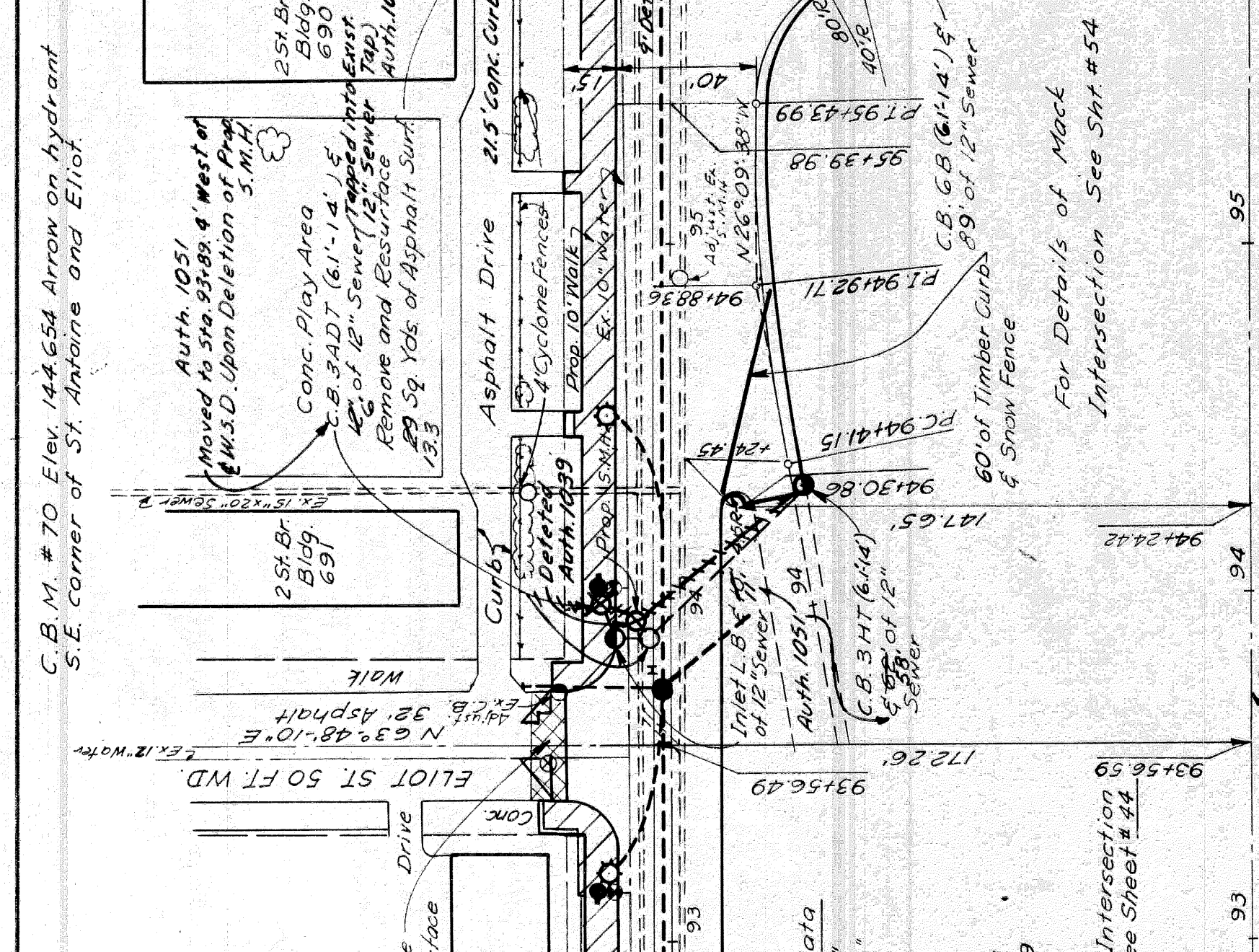
PLANNING	DATE	BY
DESIGN		
CONSTRUCTION		

OPERATION
PRELIMINARY R.O.W. CHECKED
FINAL DESIGN CHECKED
TRADED
PLANNING
PLAN CHECKED
E.I.M. CHECKER
SQUAD LEADER
RECOMMENDED FOR APPROVAL

PLANS PREPARED BY
CITY OF ST. LOUIS
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS' OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

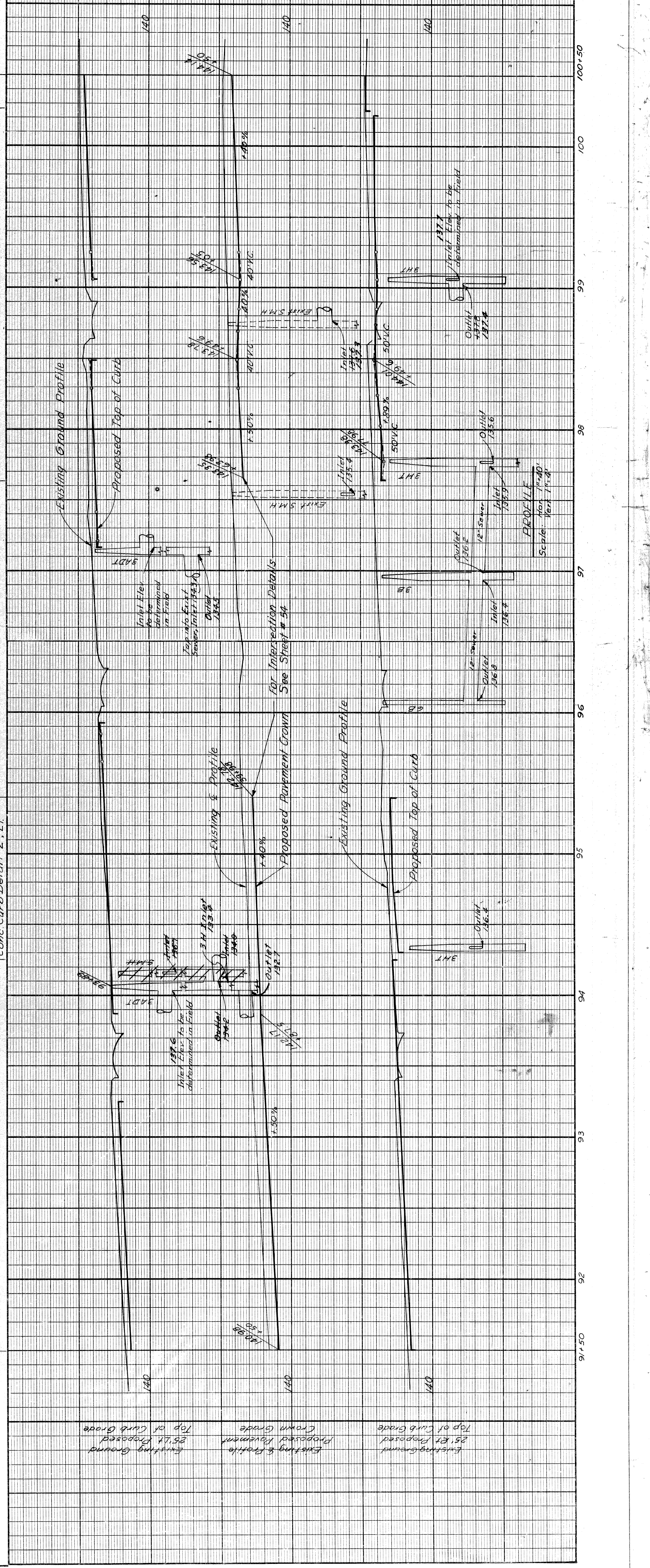
OPERATION
DATE
BY
SURVEYED
PLAN PLOTTED
PLAN CHECKED
PROFILE PLOTTED
PRELIMINARY GRADE
ROAD INTERSECTION
FEDERAL INSPECTION

Station	8" Unif. Conc. Pav't Arm. 5g. Yds. Conc. 5g. Yds.	2" Bituminous Conc. 5g. Yds.	Conc. Dr. Return Del. 17 Lin. Ft.
96+17.14	22.2	67.0	30
97+25.14	30.0		
98+25.14	22.2	67.0	30
100+07.14	60.0		
Totals		67.0	60



Scale 1" = 40'

PLAN
Scale 1" = 40'



STATE	PROJ. NO.	YEAR	SHEET NO.	TOTAL SHEETS
MICH.				
COUNTY	CITY			
Washtenaw	Ann Arbor			
ROUTE	PROJ. NO.	SHEET NO.	TOTAL SHEETS	
101				

Remove Asphalt Surface shown cross hatched to provide for a smooth, uniform concrete on just crown. Replace with Bituminous Concrete Pavement. Removing Asphalt Surface this Street Total 186,544 Tons of Bituminous Concrete Leveling Course 113,024 Tons of Bituminous Concrete Wearing Course

WEST SERVICE DRIVE

Note:
All Street Return Radii to be 15 Feet unless otherwise noted.
Existing Sidewalk to remain.
Sidewalk As Constructed - 7832 sp. ft.
Auth. 1063

Off Ramp Curve Data
Δ = 7° 30' 36"
D = 70° 00' 00"
R = 572.96'
T = 37.60'
PC = 94+10.76
PT = 99+35.96
PI = 94+73.86
E = 1.23'

For Details of Off Ramp Intersection with West Service Drive See Sheet # 46

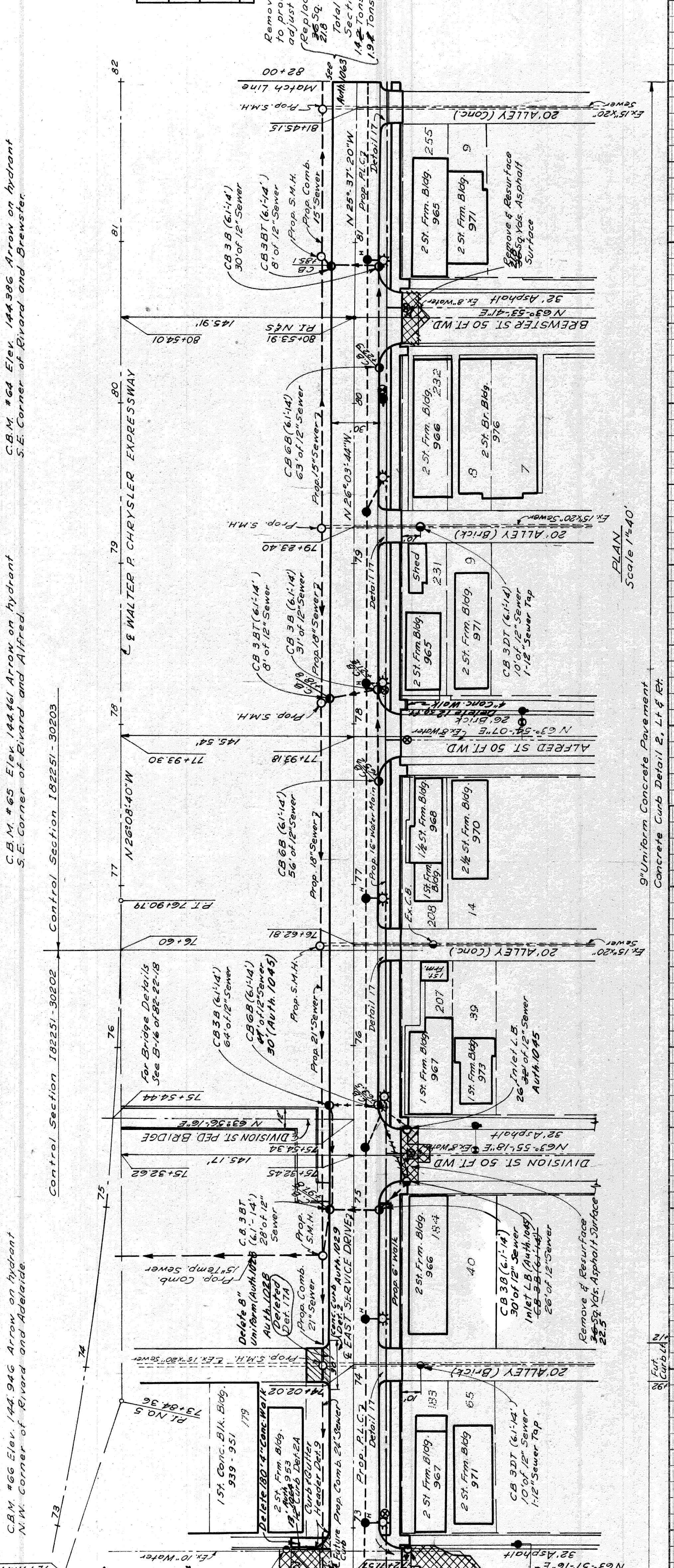
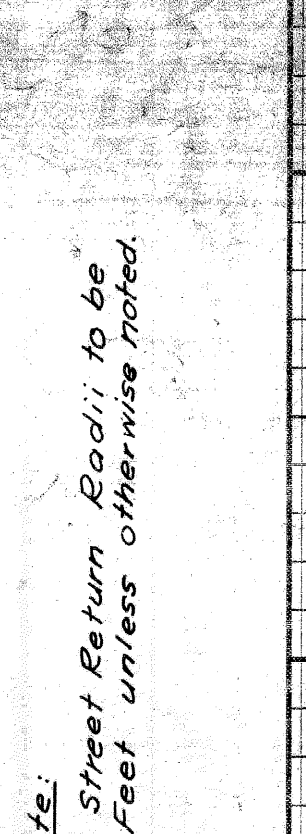
Conc. Curb & Gutter Detail 2, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.0, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 4.0, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, 4.8, 4.9, 5.0, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 6.0, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 9.0, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 10.0, 10.1, 10.2, 10.3, 10.4, 10.5, 10.6, 10.7, 10.8, 10.9, 11.0, 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.7, 11.8, 11.9, 12.0, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7, 12.8, 12.9, 13.0, 13.1, 13.2, 13.3, 13.4, 13.5, 13.6, 13.7, 13.8, 13.9, 14.0, 14.1, 14.2, 14.3, 14.4, 14.5, 14.6, 14.7, 14.8, 14.9, 15.0, 15.1, 15.2, 15.3, 15.4, 15.5, 15.6, 15.7, 15.8, 15.9, 16.0, 16.1, 16.2, 16.3, 16.4, 16.5, 16.6, 16.7, 16.8, 16.9, 17.0, 17.1, 17.2, 17.3, 17.4, 17.5, 17.6, 17.7, 17.8, 17.9, 18.0, 18.1, 18.2, 18.3, 18.4, 18.5, 18.6, 18.7, 18.8, 18.9, 19.0, 19.1, 19.2, 19.3, 19.4, 19.5, 19.6, 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145.2, 145.3, 145.4, 145.5, 145.6, 145.7, 145.8, 145.9, 146.0, 146.1, 146.2, 146.3, 146.4, 146.5, 146.6, 146.7, 146.8, 146.9, 147.0, 147.1, 147.2, 147.3, 147.4, 147.5, 147.6, 147.7, 147.8, 147.9, 148.0, 148.1, 148.2, 148.3, 148.4, 148.5, 148.6, 148.7, 148.8, 148.9, 149.0, 149.1, 149.2, 149.3, 149.4, 149.5, 149.6, 149.7, 149.8, 149.9, 150.0, 150.1, 150.2, 150.3, 150.4, 150.5, 150.6, 150.7, 150.8, 150.9, 151.0, 151.1, 151.2, 151.3, 151.4, 151.5, 151.6, 151.7, 151.8, 151.9, 152.0, 152.1, 152.2, 152.3, 152.4, 152.5, 152.6, 152.7, 152.8, 152.9, 153.0, 153.1, 153.2, 153.3, 153.4, 153.5, 153.6, 153.7, 153.8, 153.9, 154.0, 154.1, 154.2, 154.3, 154.4, 154.5, 154.6, 154.7, 154.8, 154.9, 155.0, 155.1, 155.2, 155.3, 155.4, 155.5, 155.6, 155.7, 155.8, 155.9, 156.0, 156.1, 156.2, 156.3, 156.4, 156.5, 156.6, 156.7, 156.8, 156.9, 157.0, 157.1, 157.2, 157.3, 157.4, 157.5, 157.6, 157.7, 157.8, 157.9, 158.0, 158.1, 158.2, 158.3, 158.4, 158.5, 158.6, 158.7, 158.8, 158.9, 159.0, 159.1, 159.2, 159.3, 159.4, 159.5, 159

PROJ. NO.	STATE	COUNTY	CITY	PROJECT	DATE	SHEET NO.	TOTAL SHEETS
102251-30202	MI	W	W	W	2025	37	37

Station	8" Unit Conc. Dr. Ret. Conc. 5% Yds. Det. 17' Lin. Ft.	300	300	300
76+00.00	22.2	22.2	22.2	30.0
76+25.00	22.2	22.2	22.2	30.0
76+50.00	22.2	22.2	22.2	30.0
76+75.00	22.2	22.2	22.2	30.0

Remove Asphalt surface shown cross hatched to provide for a smooth connection and to replace with Bituminous Concrete Pavement. 2.5% Yds. Removing Asphalt Surface. 2.5% Yds. Bituminous Concrete. Total 2.5% Yds. Bituminous Concrete. This section is to be constructed with Bituminous Concrete Leveling Course. 1.9% Tons Bituminous Concrete Wearing Course.

2719 59 ft. 4" Concrete Walk As Constructed (Auth. 1064)
 Note:
 All Street Return Radii to be 15 Feet unless otherwise noted.

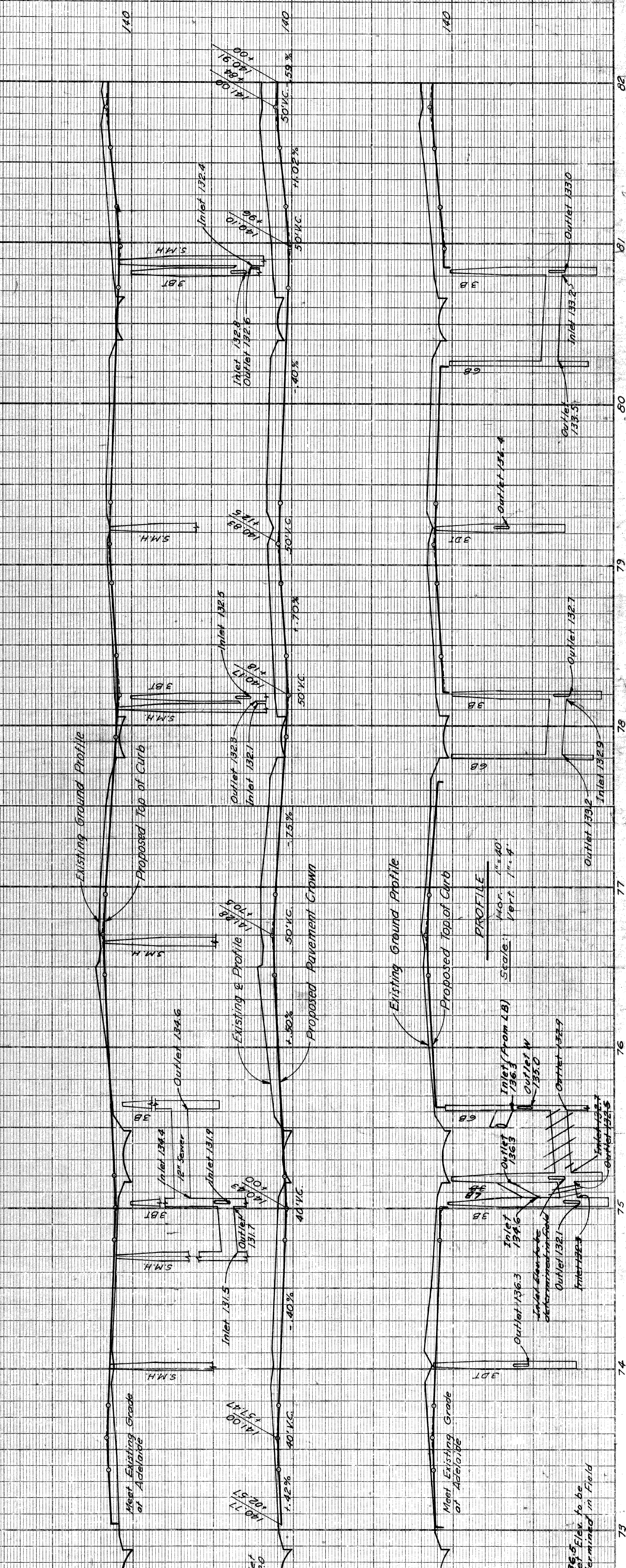


Control Section 102251-30202
 Station 76+00.00
 8" Unit Conc. Dr. Ret. Conc. 5% Yds. Det. 17' Lin. Ft. 300
 76+25.00 22.2 22.2 22.2 30.0
 76+50.00 22.2 22.2 22.2 30.0
 76+75.00 22.2 22.2 22.2 30.0

Remove Asphalt surface shown cross hatched to provide for a smooth connection and to replace with Bituminous Concrete Pavement. 2.5% Yds. Removing Asphalt Surface. 2.5% Yds. Bituminous Concrete. Total 2.5% Yds. Bituminous Concrete. This section is to be constructed with Bituminous Concrete Leveling Course. 1.9% Tons Bituminous Concrete Wearing Course.

2719 59 ft. 4" Concrete Walk As Constructed (Auth. 1064)
 Note:
 All Street Return Radii to be 15 Feet unless otherwise noted.

CONTROL SECTION 102251-30202	FROM STA. 72+55.37 TO STA. 76+00.00
Excavation	534 Cu Yds
Embankment	293 Cu Yds
1.25% Struck Slope	48 Cu Yds
1.25% Struck Slope	233 Cu Yds
Mudfill	1,193 Cu Yds



Control Section 102251-30202
 Station 76+00.00
 8" Unit Conc. Dr. Ret. Conc. 5% Yds. Det. 17' Lin. Ft. 300
 76+25.00 22.2 22.2 22.2 30.0
 76+50.00 22.2 22.2 22.2 30.0
 76+75.00 22.2 22.2 22.2 30.0

Remove Asphalt surface shown cross hatched to provide for a smooth connection and to replace with Bituminous Concrete Pavement. 2.5% Yds. Removing Asphalt Surface. 2.5% Yds. Bituminous Concrete. Total 2.5% Yds. Bituminous Concrete. This section is to be constructed with Bituminous Concrete Leveling Course. 1.9% Tons Bituminous Concrete Wearing Course.

2719 59 ft. 4" Concrete Walk As Constructed (Auth. 1064)
 Note:
 All Street Return Radii to be 15 Feet unless otherwise noted.

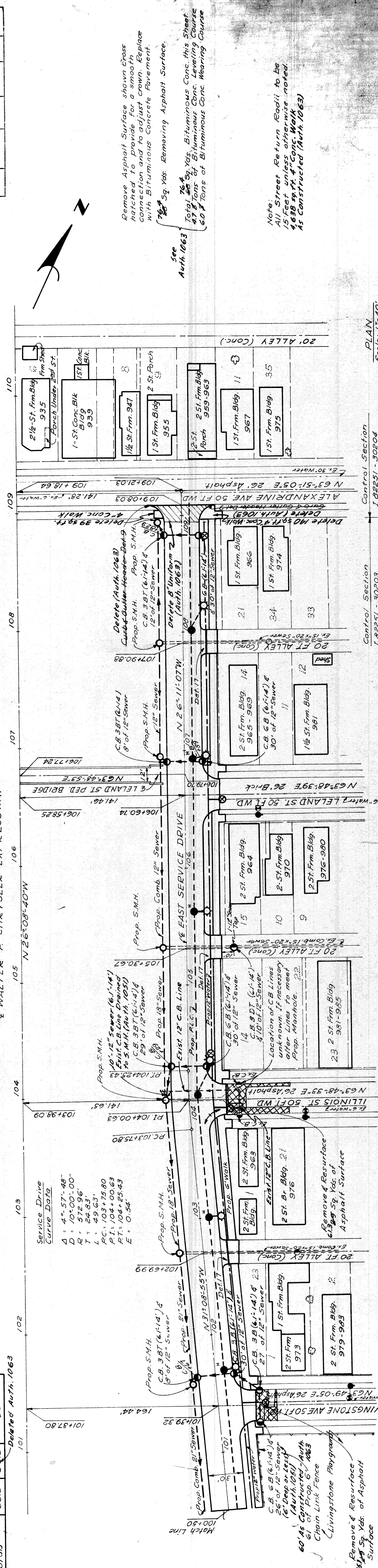
STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
MICH.	4	40	40
COUNTY	ROUTE	DATE	BY
MAYNE	24724-1	5-17-74	W. J. ...
STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
MICH.	4	40	40
COUNTY	ROUTE	DATE	BY
MAYNE	24724-1	5-17-74	W. J. ...

P.B.M. # 40-2504 Elev. 146.683 City of Detroit Monument N.E. corner Eward and Alexandria.

C.B.M. # 78 Elev. 149.942 Arrow on hydrant N.W. corner Eward and Illinois.

C.B.M. # 79 Elev. 149.107 Arrow on hydrant N.E. corner Eward and Livingstone.

WALTER P. CHRYSLER EXPRESSWAY



Station	Bluff Conc. Pav. Conc. Dr. Return	Bluff Conc. Pav. Conc. Dr. Return
102+69.99	222	30
103+30.67	222	30
107+50.88	222	30
109+00	456	90
Totals	666	90

Service Drive Curve Data
 Δ: 4° 57' 48"
 R: 101.00' 00"
 P: 972.96'
 T: 24.83'
 L: 49.63'
 P.C.: 103+75.80
 P.I.: 104+00.63
 P.T.: 104+25.43
 E.: O.S.

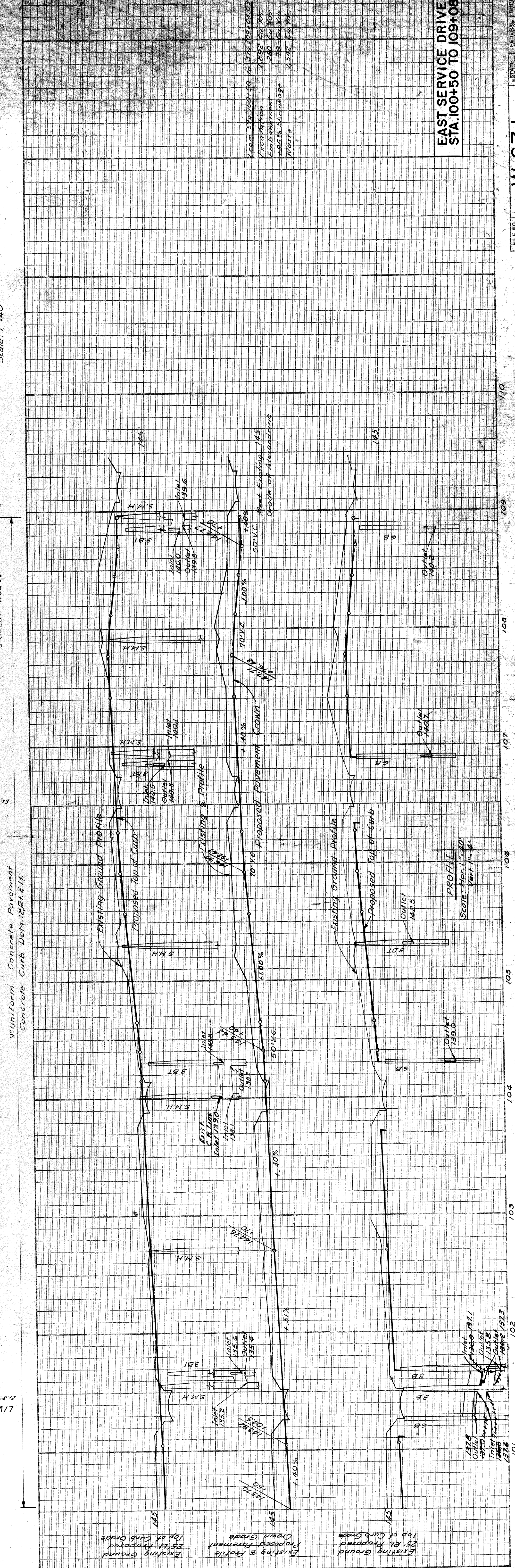
Remove Asphalt Surface shown Cross Section and provide for a smooth Connection and to adjust crown. Replace with Bituminous Concrete Pavement.
 7/8" Sq. Yds. Removing Asphalt Surface.
 7/8" Sq. Yds. Bituminous Conc. this Sheet
 Total 100 Sq. Yds. Bituminous Conc. Removing Course
 60' of Bituminous Conc. Wearing Course
 See Auth. 1063

Note:
 All Street Return Radii to be 15 Feet unless otherwise noted.
 4838 sq. ft. of Conc. Walk
 AS Constructed (Auth. 1063)

PLAN
 Scale: 1"=40'

Control Section
 I 32251 - 30203

Control Section
 I 32251 - 30204



9" Uniform Concrete Pavement
 Concrete Curb Details 241 & 41

Existing Ground
 25% Proposed
 Top of Curb Grade

Existing & Profile
 Proposed Pavement
 Crown Grade

Existing Ground
 Top of Curb Grade

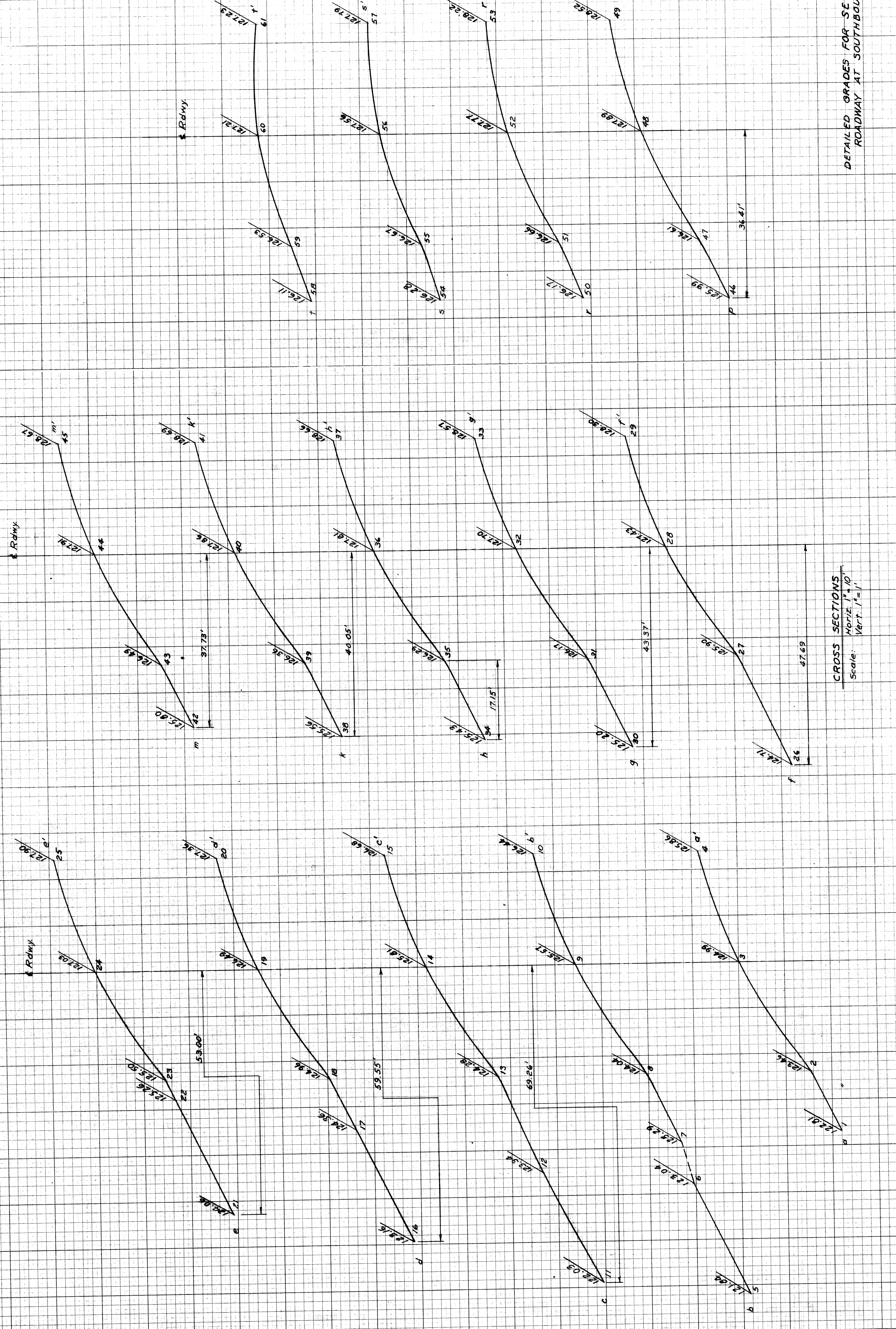
EAST SERVICE DRIVE
 STA. 100+50 TO 109+08

OPERATION: PRELIMINARY REVIEW CHECKED, FINAL DESIGN CHECKED, TRAFFIC ENGINEER CHECKED, FINAL R.O.W. CHECK, QUANTITIES CHECKED, SQUAD LEADER, PLAN CHECKED, REVISIONS, RECOMMENDED FOR APPROVAL, DATE, BY

SURVEY: OPERATOR, DATE, BY

BUREAU OF HIGHWAYS AND EXPRESSWAYS

FEDERAL INSPECTION, GRADE INSPECTION, PRELIMINARY GRADE, PROFILE CHECKED, PLAN CHECKED, PLAN OFFERED, PLAN OFFERED

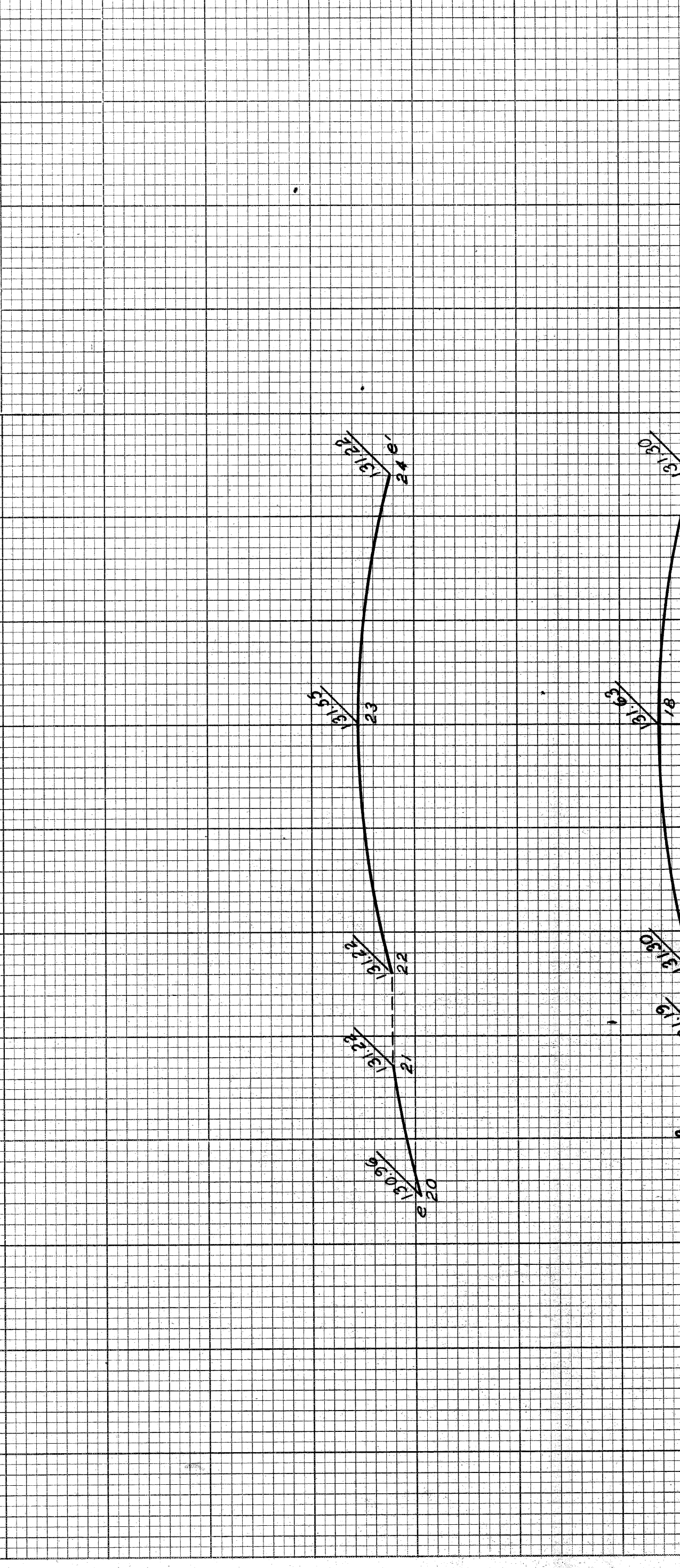


CROSS SECTIONS
 Horiz. 1"=10'
 Vert. 1"=1'

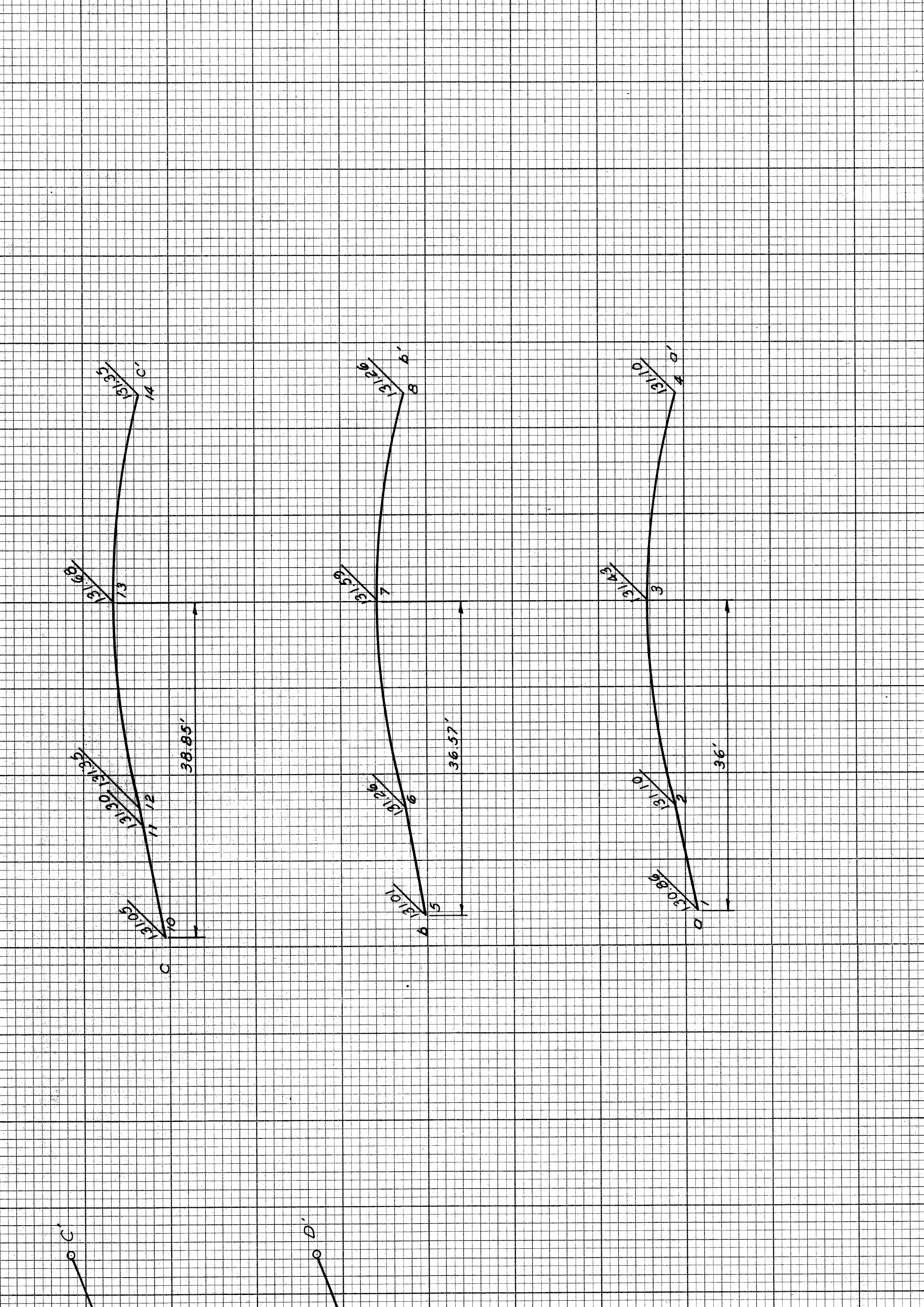
DETAILED GRADES FOR SE & SW TURNING
 ROADWAY AT SOUTHBOUND ROADWAY

DATE	BY	7-59
PLOTTED	D. Vargas	7-59
COMPUTED	D. Vargas	7-59
CHECKED	L. Boyd	8-59

B. P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	COUNTY	CITY	PROJECT	SHEET NO.	TOTAL SHEETS
82251	Wayne	Detroit	45		



PLAN
Scale: 1"=20'



PROFILES
HORIZ. 1"=20'
VERT. 1"=2'

CROSS-SECTIONS
HORIZ. 1"=10'
VERT. 1"=1'

DETAILED GRADES FOR SOUTHBOUND
"ON" RAMP AT SOUTHBOUND EXPRESSWAY

FILE NO. 82251
PROJECT, PARALLEL SHEET
82251-175-1(7) 45

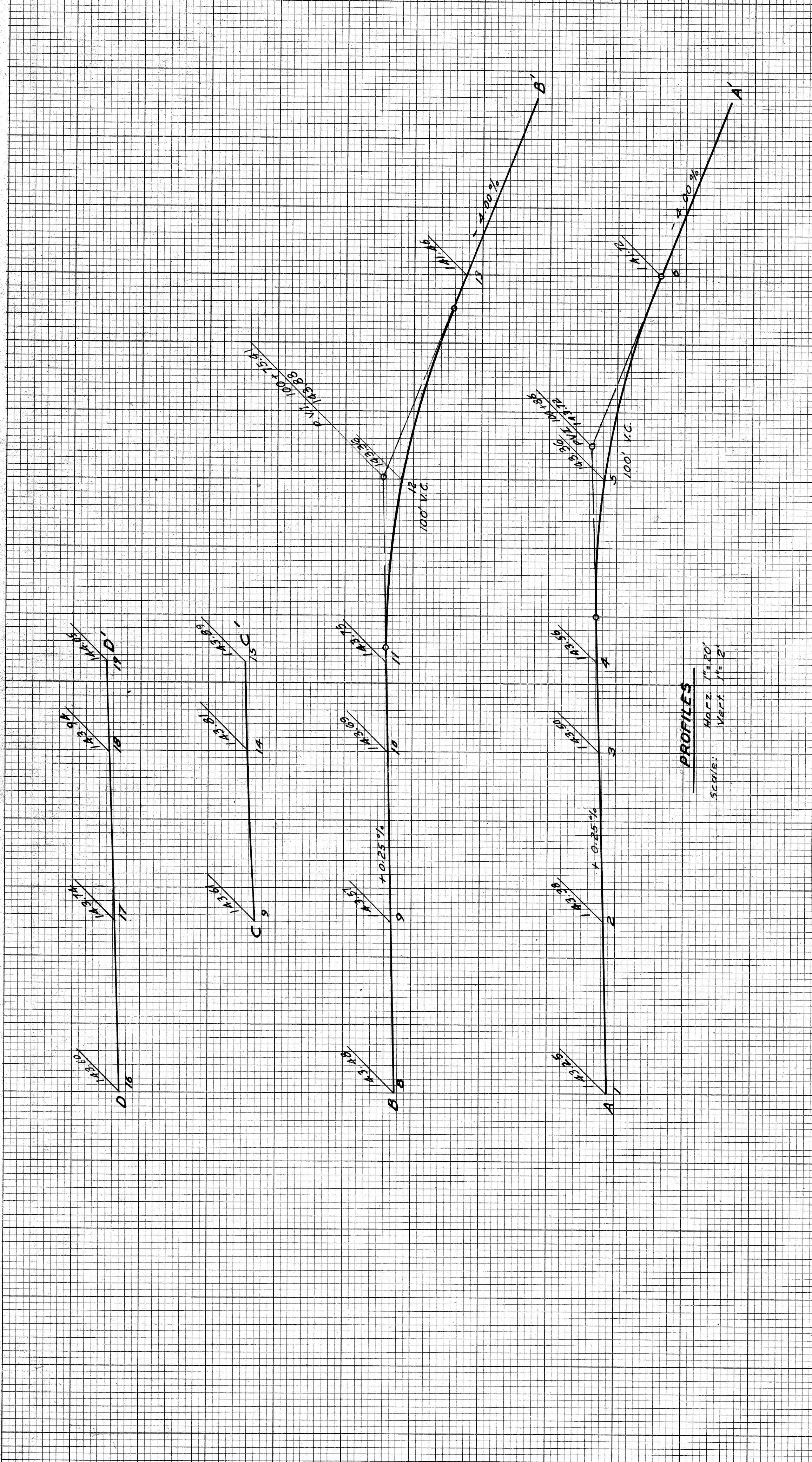
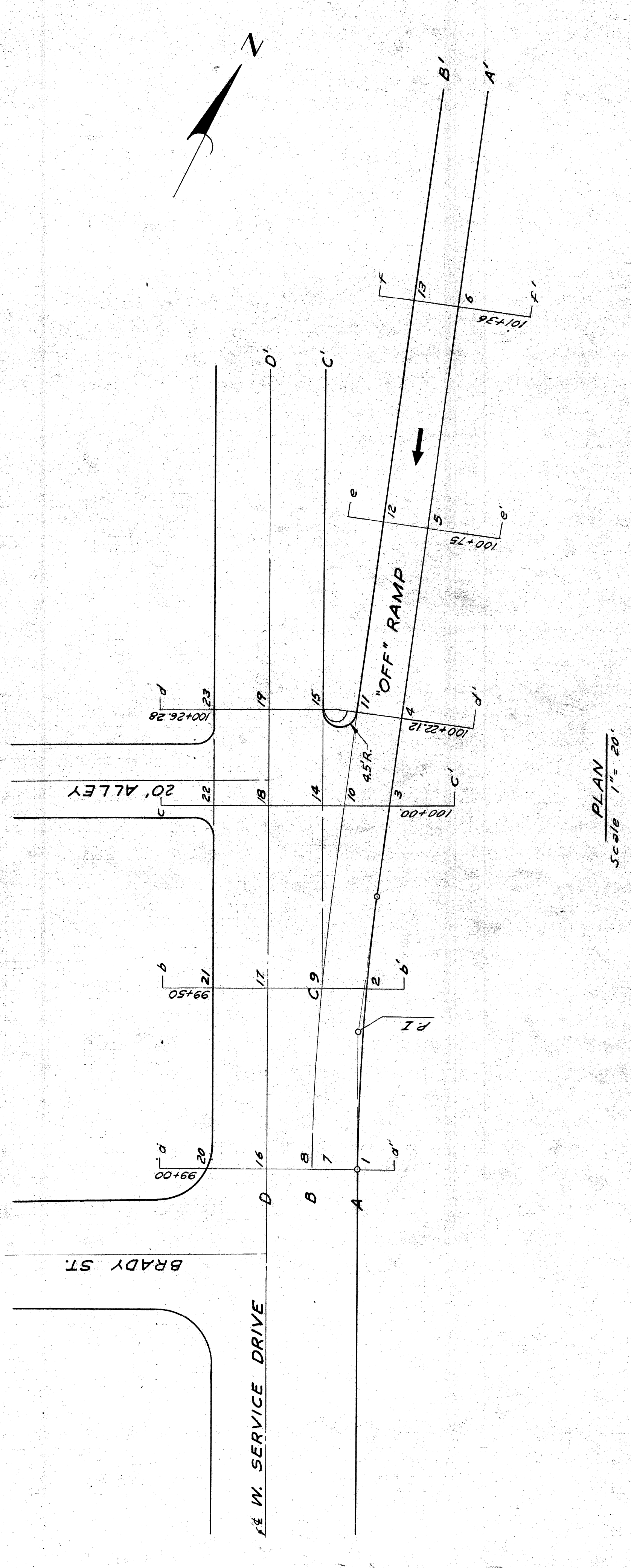
W-67-1

DATE	BY	PLAN DESIGNED
2-59	CANN-WOLKIN	
4-59	KENDEL-CLOUD	PLAN CHECKED
	REYNOLDS	SQUAD LEADER
	REYNOLDS	RECOMMENDED FOR APPROVAL

DATE	BY	PLOTTED	CHECKED

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MICH.				
COUNTY	CITY			
Wayne	Detroit			
ROUTE	PROJECT			
22251	Wayne Detroit			



CROSS SECTIONS

Scale	Horiz.	Vert.
	1" = 10'	1" = 1'

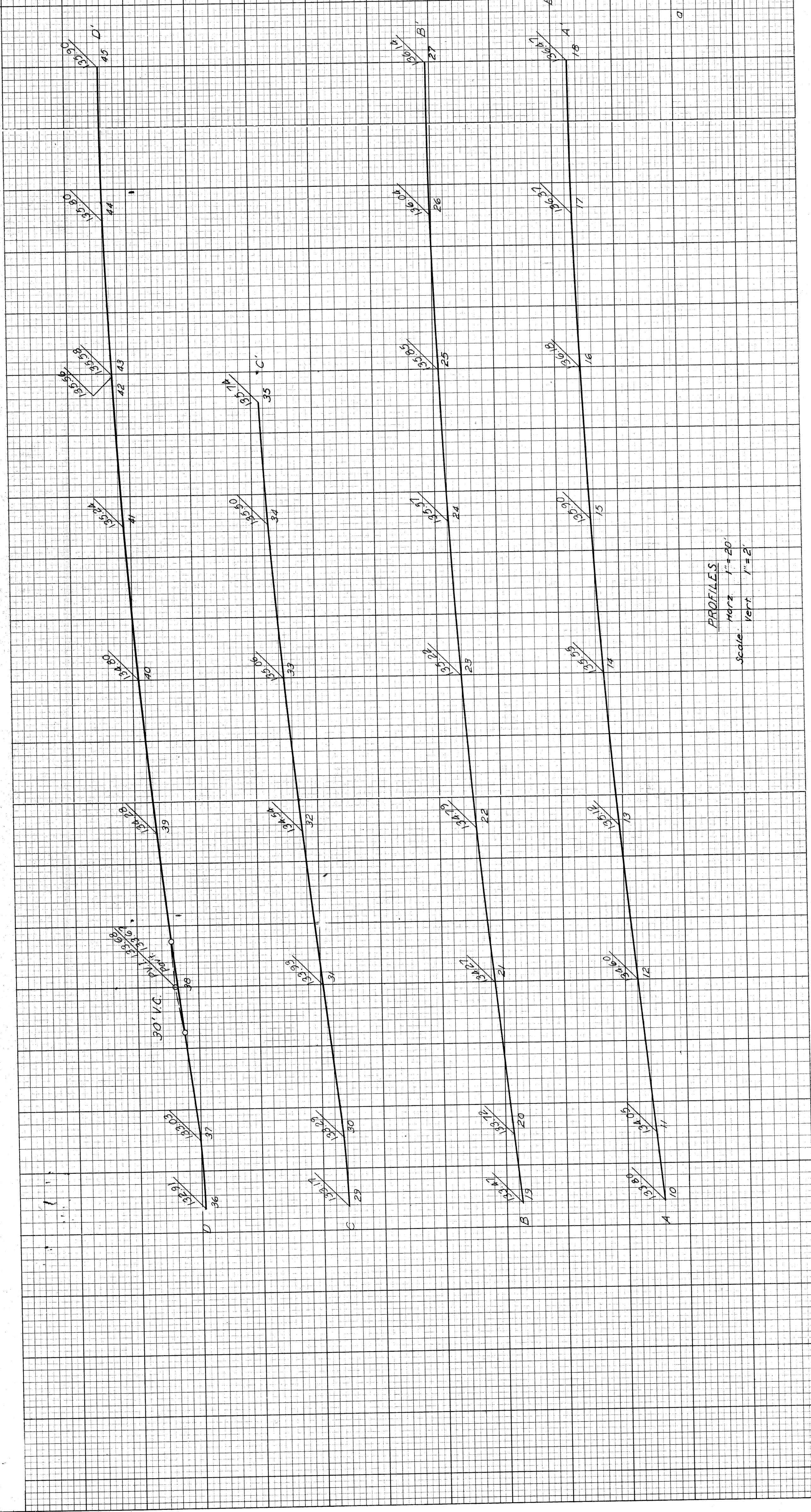
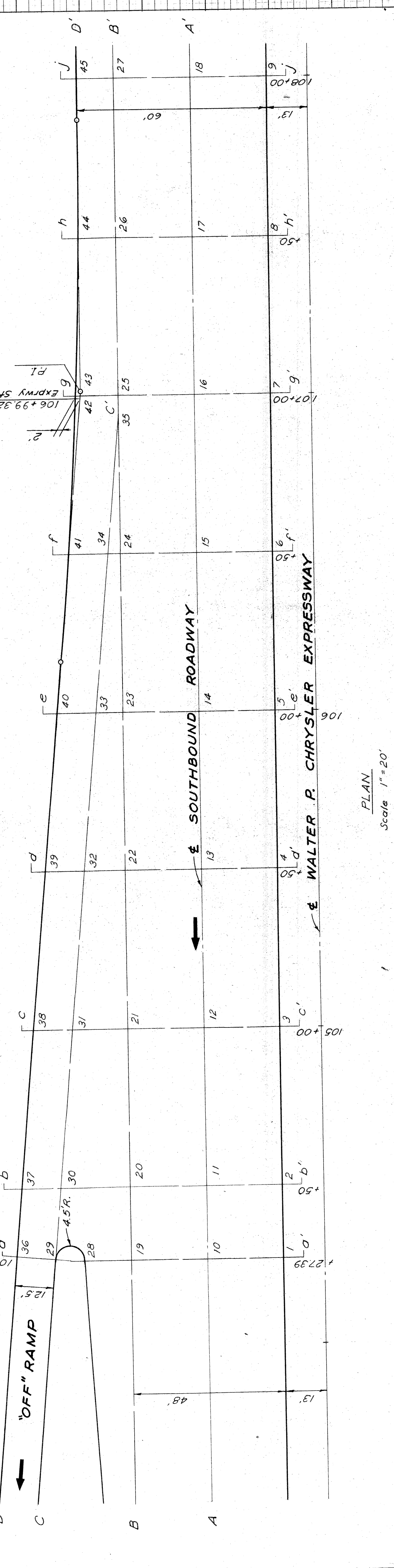
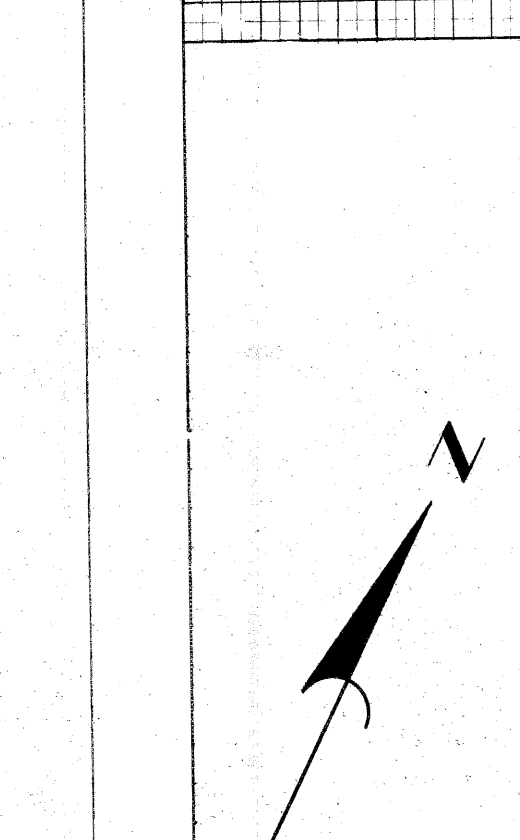
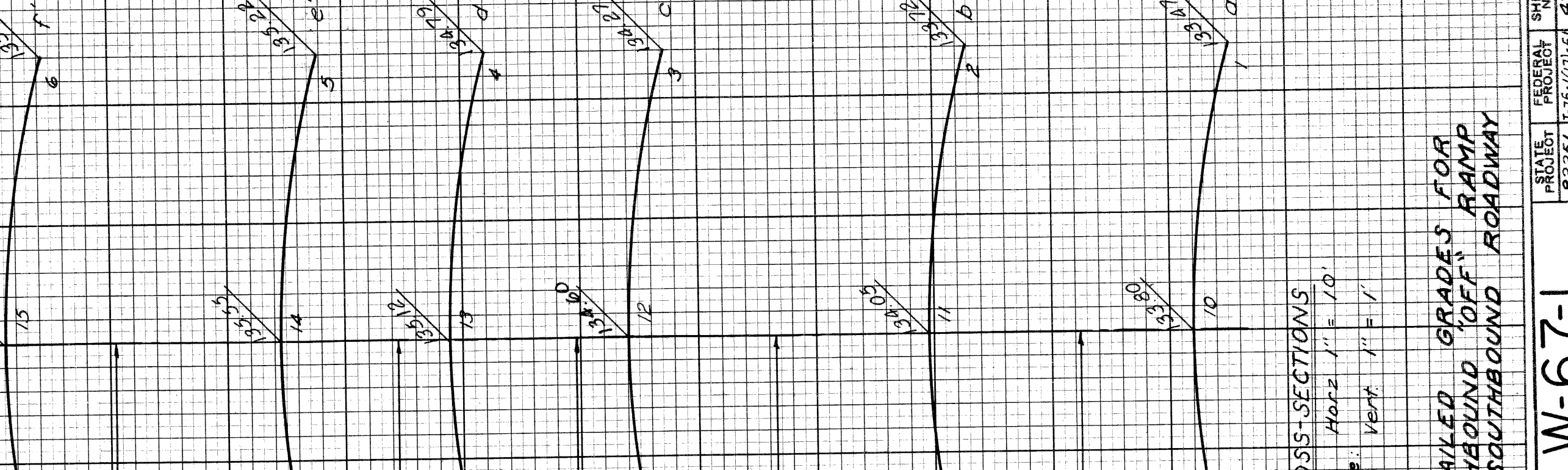
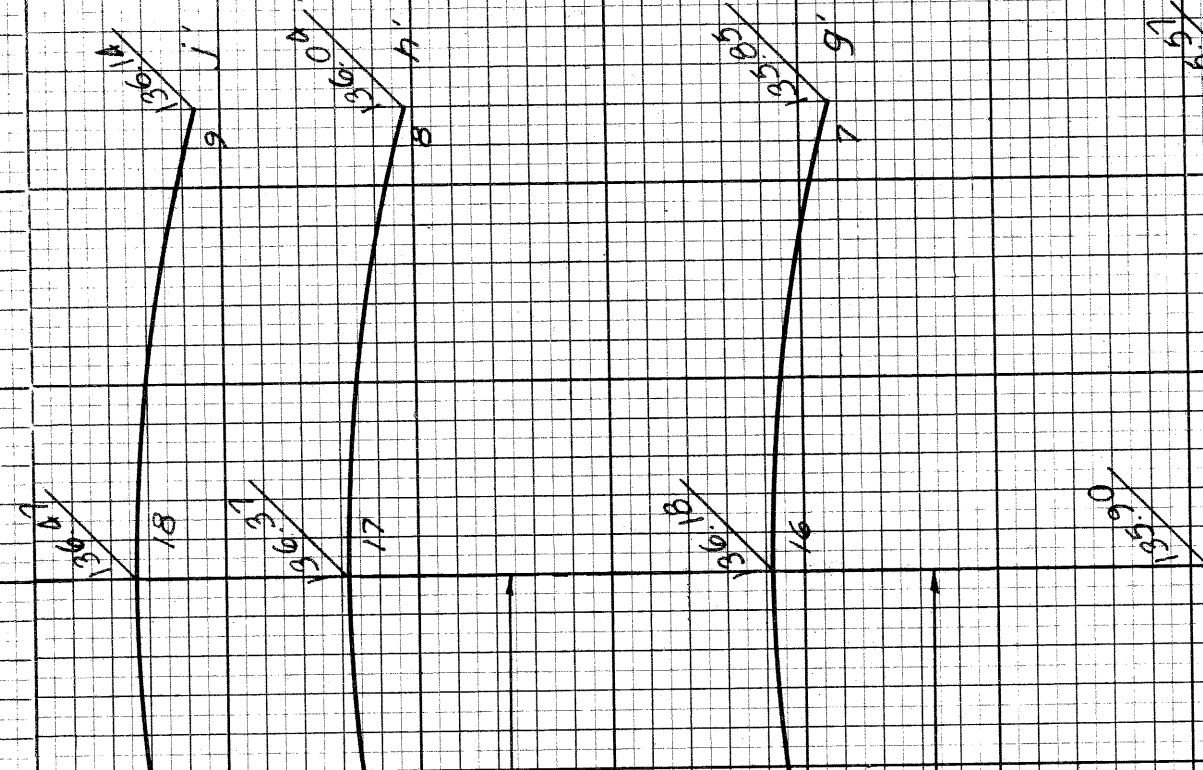
DETAILED GRADES FOR SOUTHBOUND "OFF" RAMP AT W. SERVICE DRIVE

DATE	BY
5-73	SCHEIDT, M.
4-73	KENDLER-SOVD
4-73	PLAN CHECKED
4-73	SOUND LEADER
4-73	RECOMMENDED FOR APPROVAL
	M. K. [Signature]

DATE	BY

PLANS PREPARED BY
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 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

DATE	BY	PLANNED	DESIGNED	CHECKED	APPROVED
3-79	WOLFE, R.	3-79	WOLFE, R.	3-79	WOLFE, R.
4-79	KILGUS, C.	4-79	KILGUS, C.	4-79	KILGUS, C.
4-79	PERKINS, A.	4-79	PERKINS, A.	4-79	PERKINS, A.



CROSS-SECTIONS
 Horiz. 1" = 10'
 Vert. 1" = 1'

PROFILES
 Horiz. 1" = 40'
 Vert. 1" = 2'

DETAILED GRADES FOR
 SOUTHBOUND 'OFF' RAMP
 AT SOUTHBOUND ROADWAY

DATE	BY	PLANNED	DESIGNED	CHECKED	APPROVED
3-79	WOLFE, R.	3-79	WOLFE, R.	3-79	WOLFE, R.
4-79	KILGUS, C.	4-79	KILGUS, C.	4-79	KILGUS, C.
4-79	PERKINS, A.	4-79	PERKINS, A.	4-79	PERKINS, A.

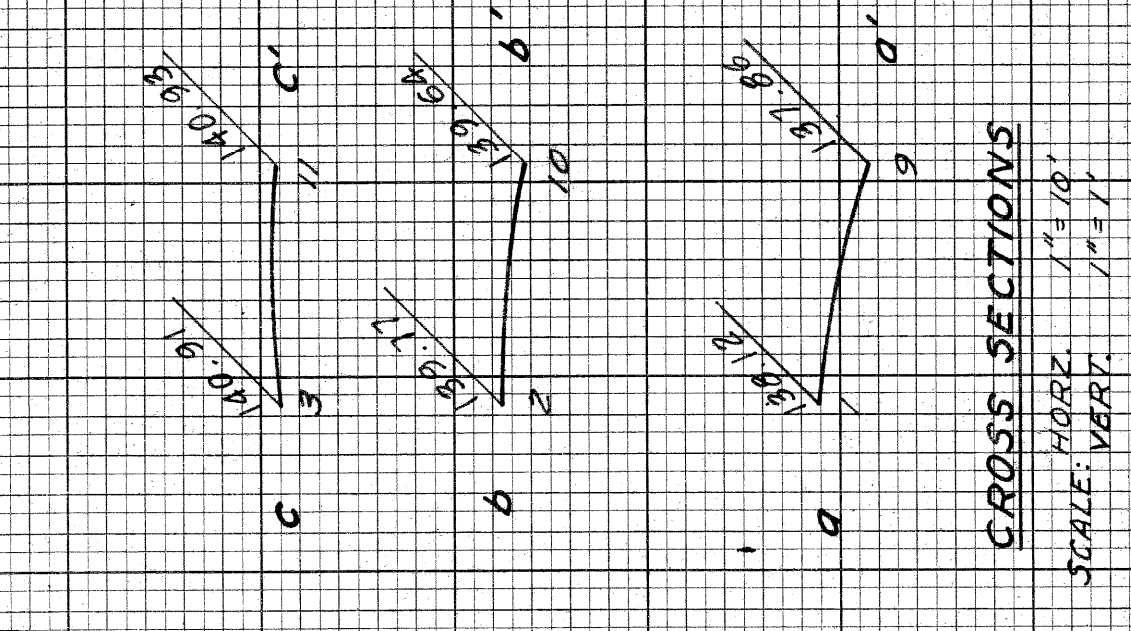
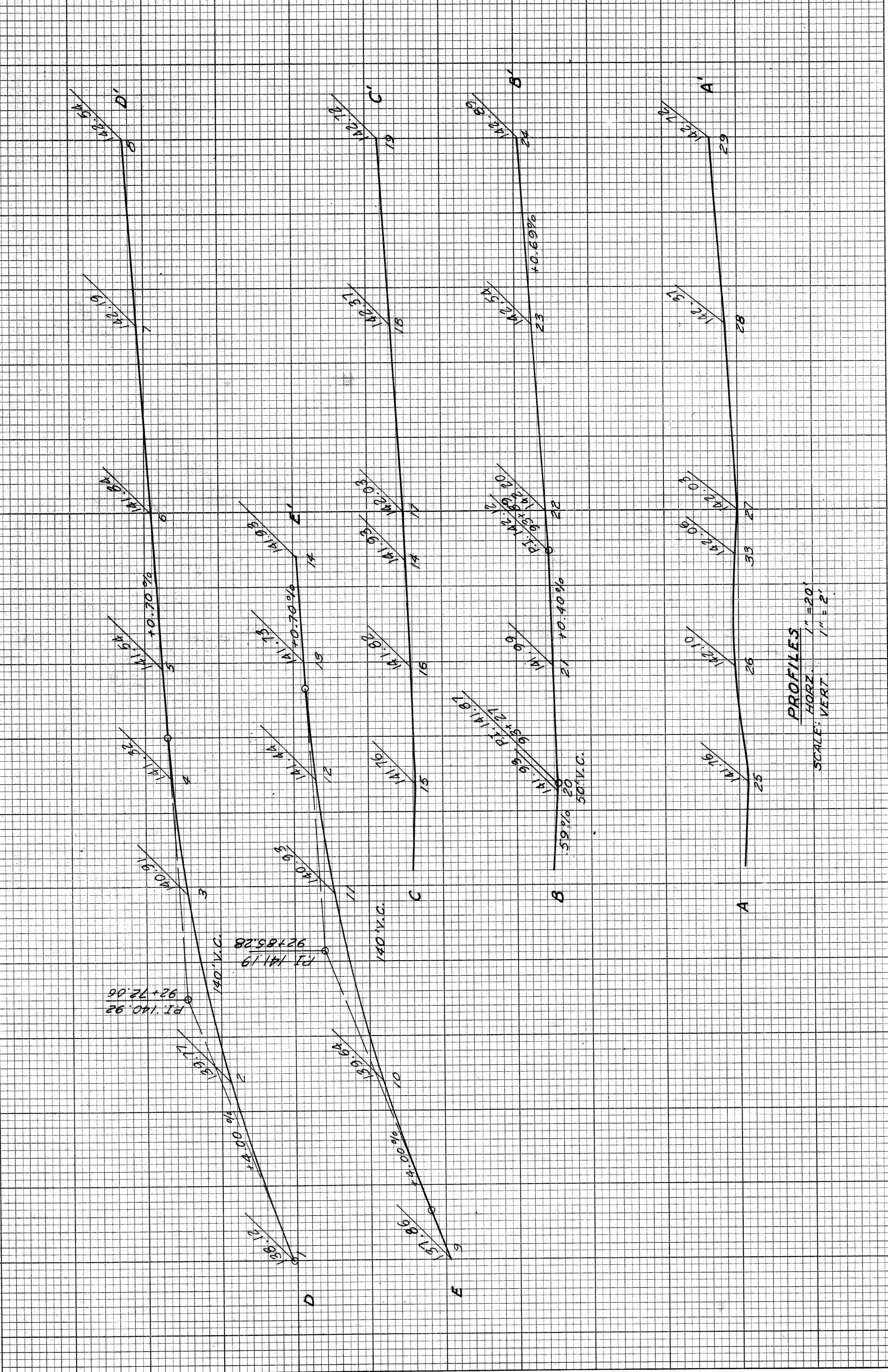
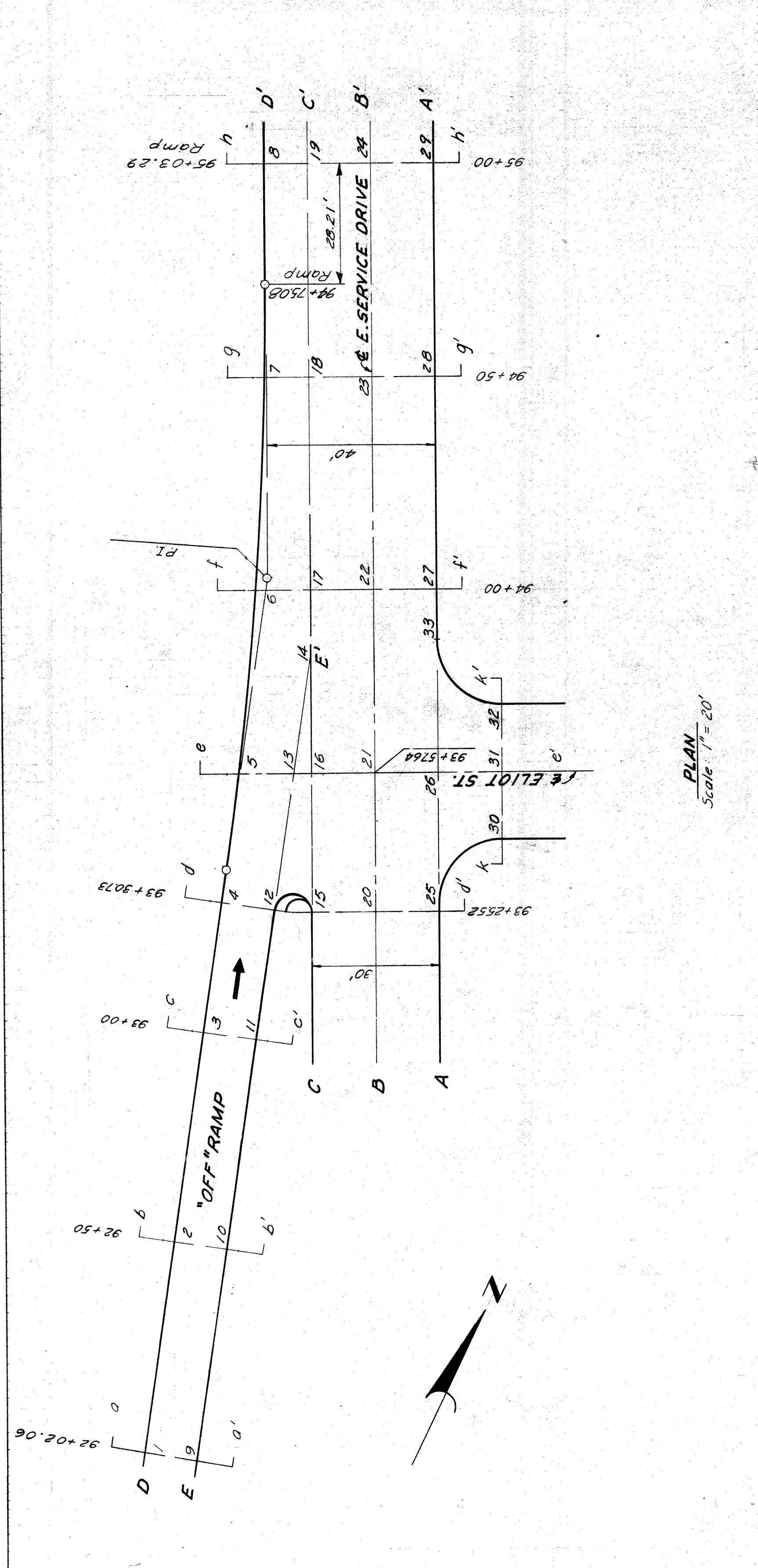
DATE	BY

PLANS PREPARED BY
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4				
COUNTY	CITY	ROUTE	PROJECT	
Wayne	Detroit	82251		

DETAILED GRADES NORTHBOUND "OFF" RAMP AT EAST SERVICE DRIVE

FILE NO.	PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
W-67-1	82251	1957	48	

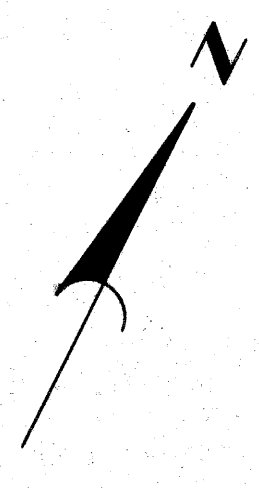
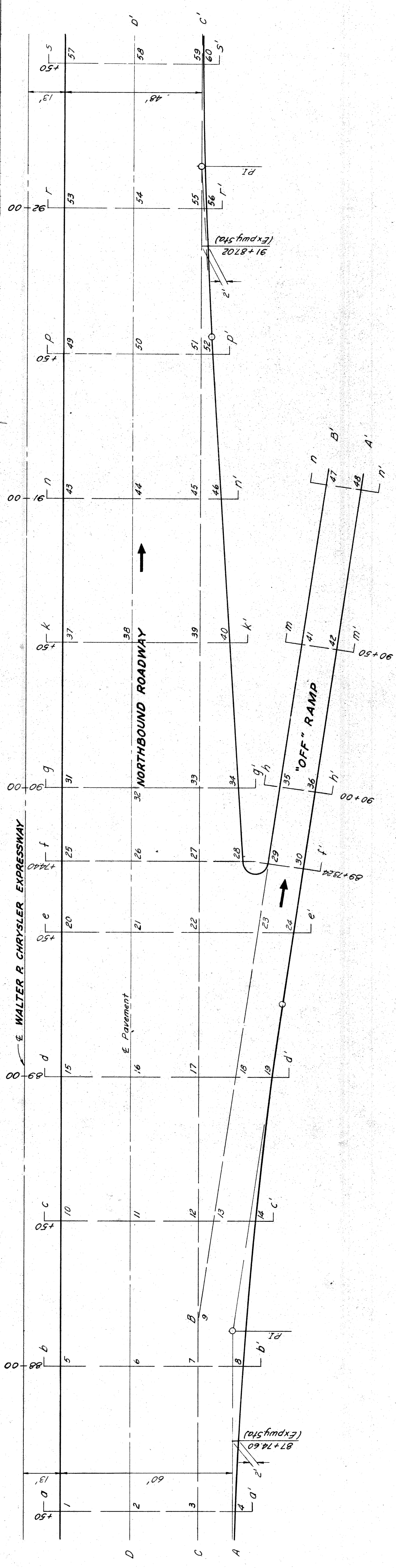


DATE	DESIGNED	BY
2-29	KENDRICK-KNOX	
4-23	REVISION - CLOUD	
4-23	PLAN CHECK	
	PLAN LEADER	
	PERMITS	
	FOR APPROVAL	

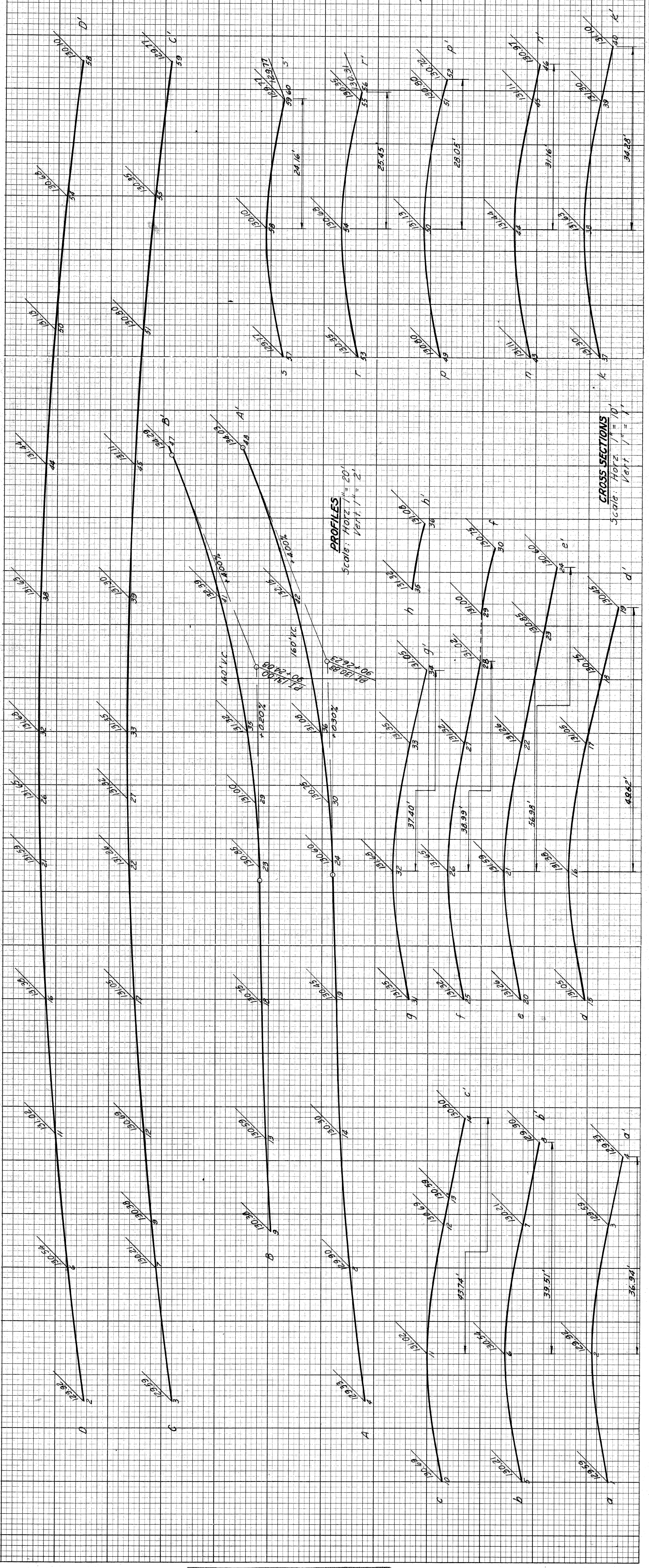
DATE	BY

PLANS PREPARED BY
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DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

STATE	PROJ. NO.	SHEET NO.	SHEET TOTAL
MICH.	4	49	50
COUNTY	CITY	SHEET NO.	SHEET TOTAL
Wayne	Detroit	49	50
ROUTE	82251		



PLAN
Scale: 1" = 20'



DETAILED GRADES FOR NORTHBOUND
"OFF" RAMP AT NORTHBOUND ROADWAY

W-67-1

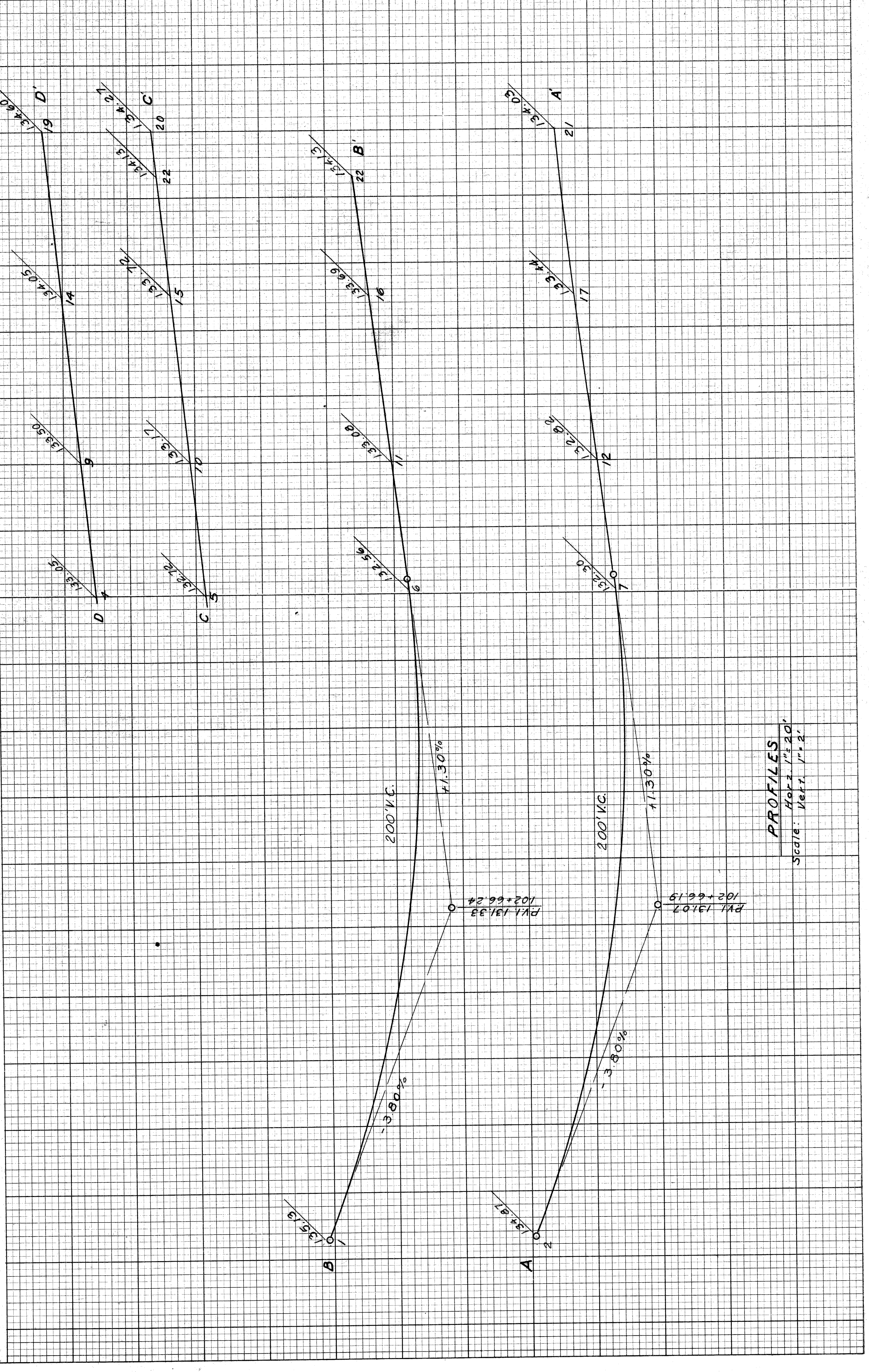
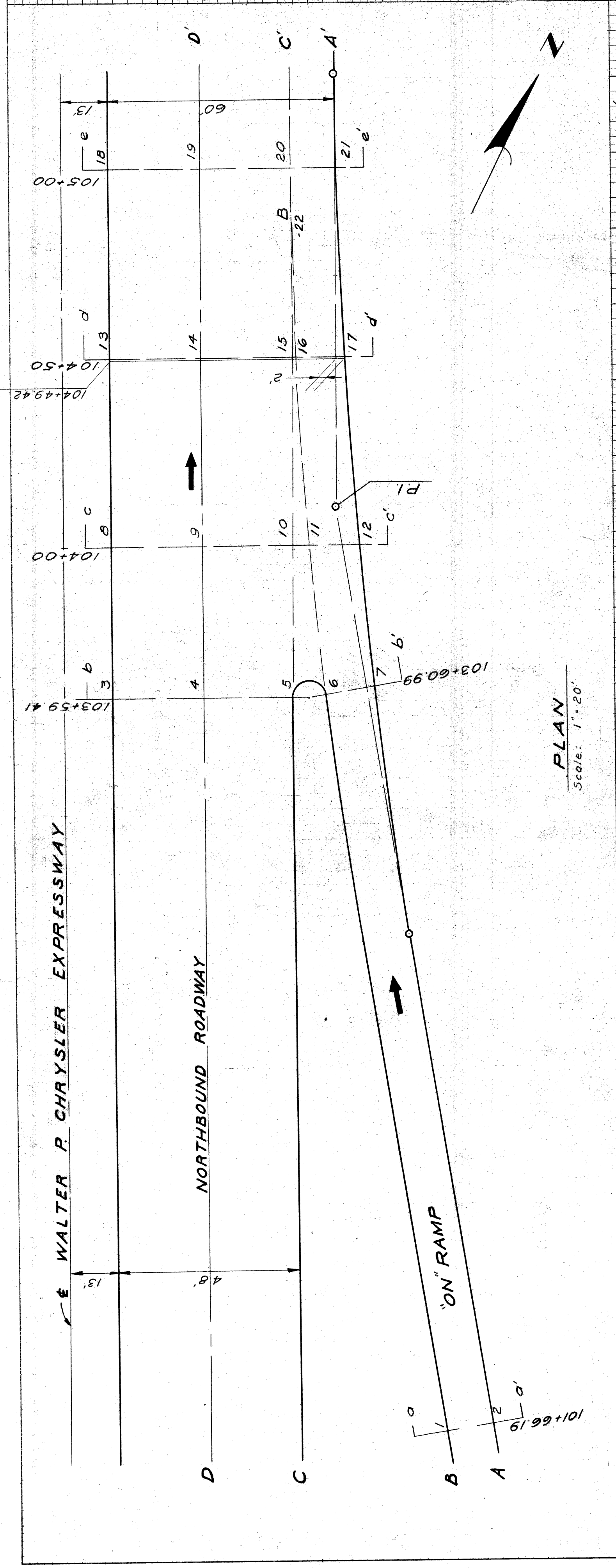
DATE	BY
12-28	KENNERL
1-25	CHAM. GLOD
4-59	PERFIELD

PLANNED	COMPLETED
BY	DATE

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

PLAN NO. 82251
SHEET 49

B. P. R. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	MICH.		51	51
ROUTE	CITY	COUNTY	SHEET NO.	TOTAL SHEETS
82251	Wayne	Detroit	51	51



DATE	BY
2-23	HEALIN, C.
2-23	HECKLY, CLOYD
2-23	DRAPER, B.E.
4-23	M. R. HALL

PLANNED	BY	DATE
COMPUTED		
CHECKED		

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

CROSS SECTIONS
Horz. 1" = 10'
Vert. 1" = 1'

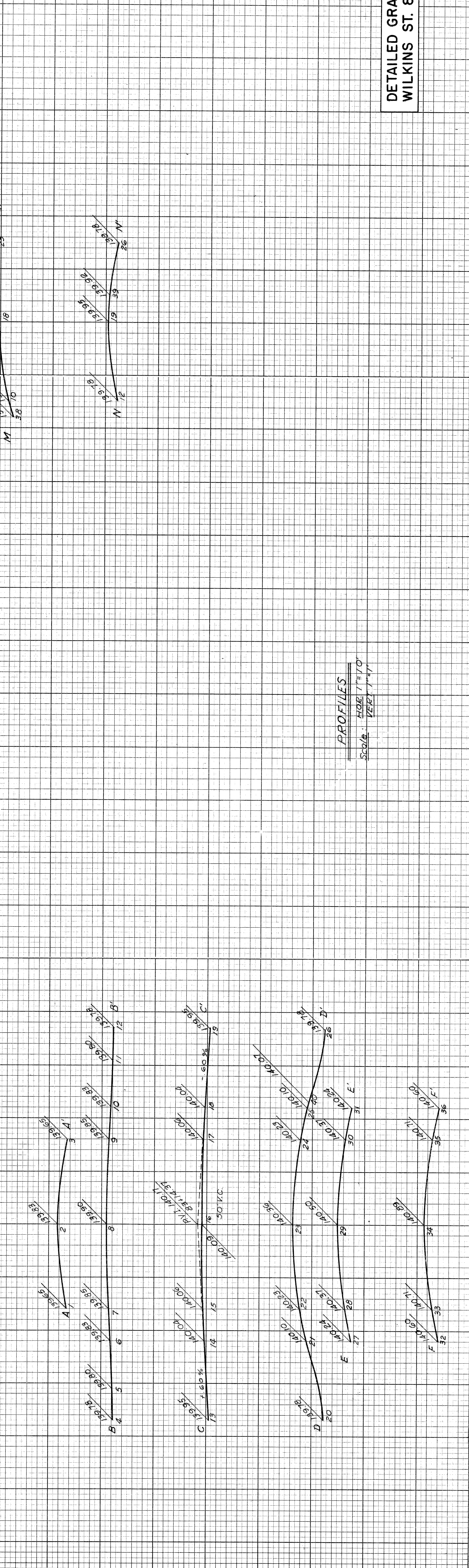
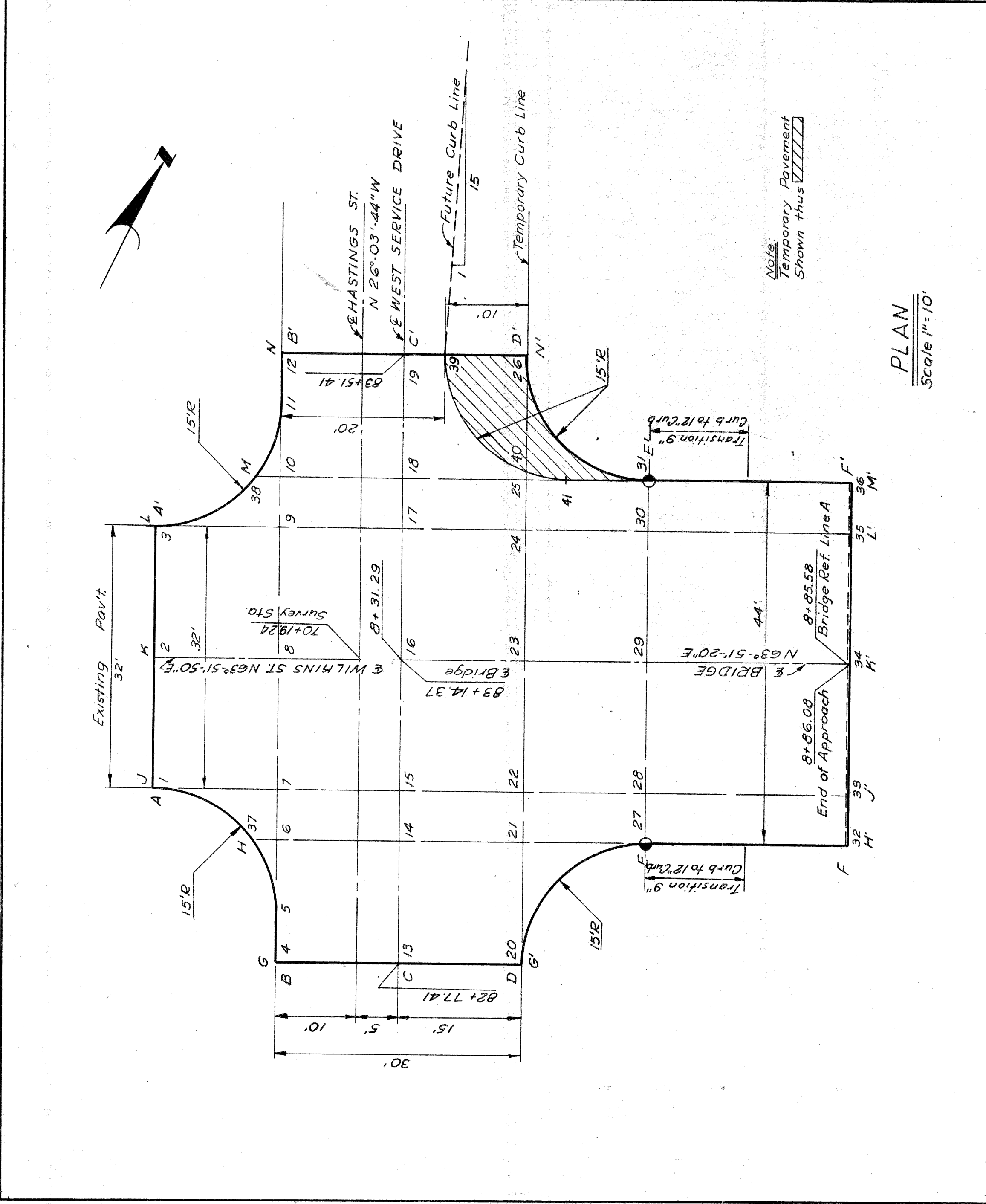
DETAILED GRADES FOR
NORTHBOUND 'ON' RAMP
AT NORTHBOUND ROADWAY.

STATE	PROJ. NO.	YEAR	SHEET
MICH.	4		52
COUNTY	CITY	PROJECT	SHEET
WAYNE	DETROIT	WEST SERVICE DRIVE	52

DETAILED GRADES OF INTERSECTION OF
WILKINS ST. & WEST SERVICE DRIVE

FILE NO.	DATE	BY
17500-DRAWING	1/25/51	J.S.

W-67-1

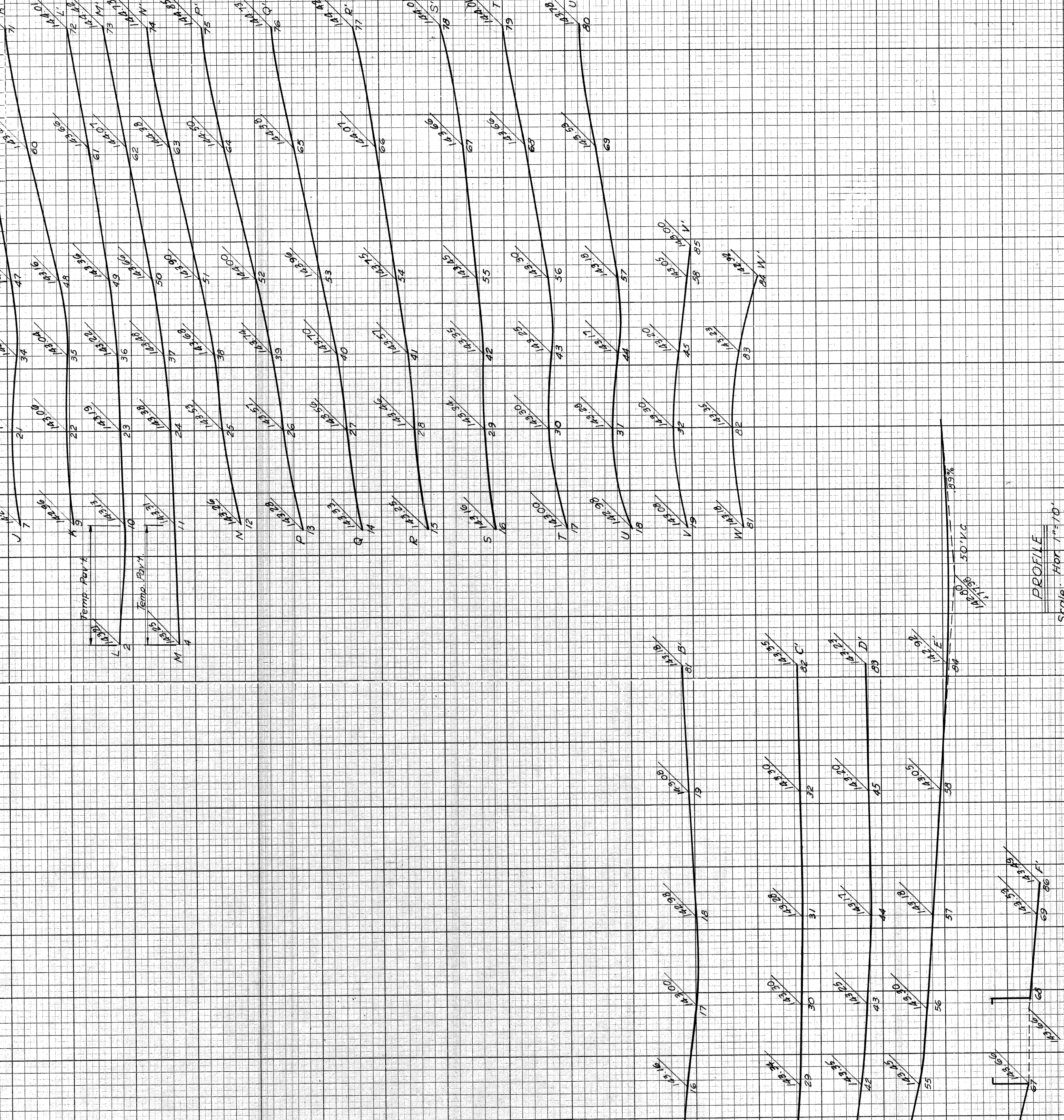


PLAN DESIGNED	DATE
PLAN CHECKED	
FLIGHT	
COMPUTED	
CHECKED	
RECOMMENDED FOR APPROVAL	

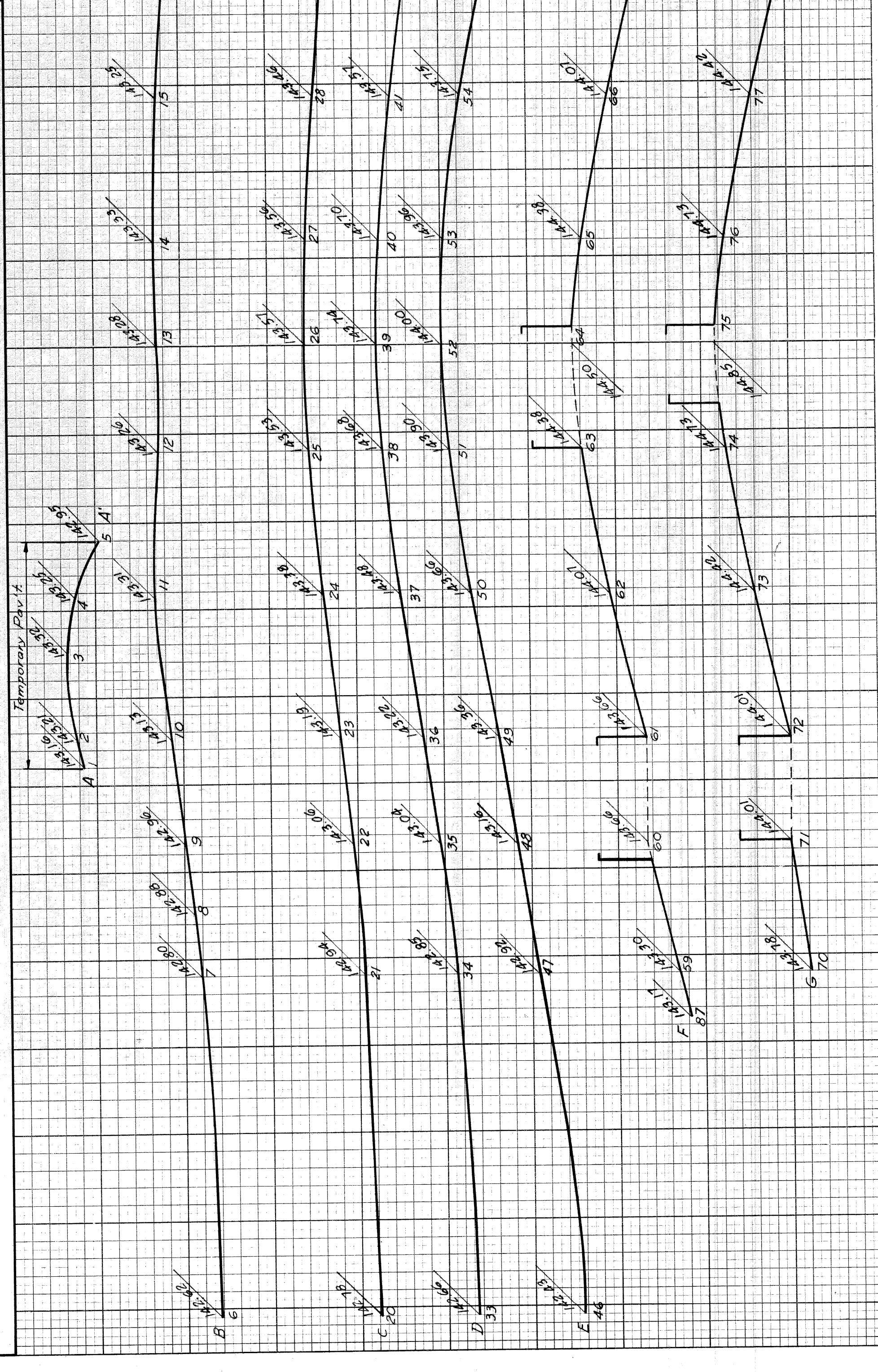
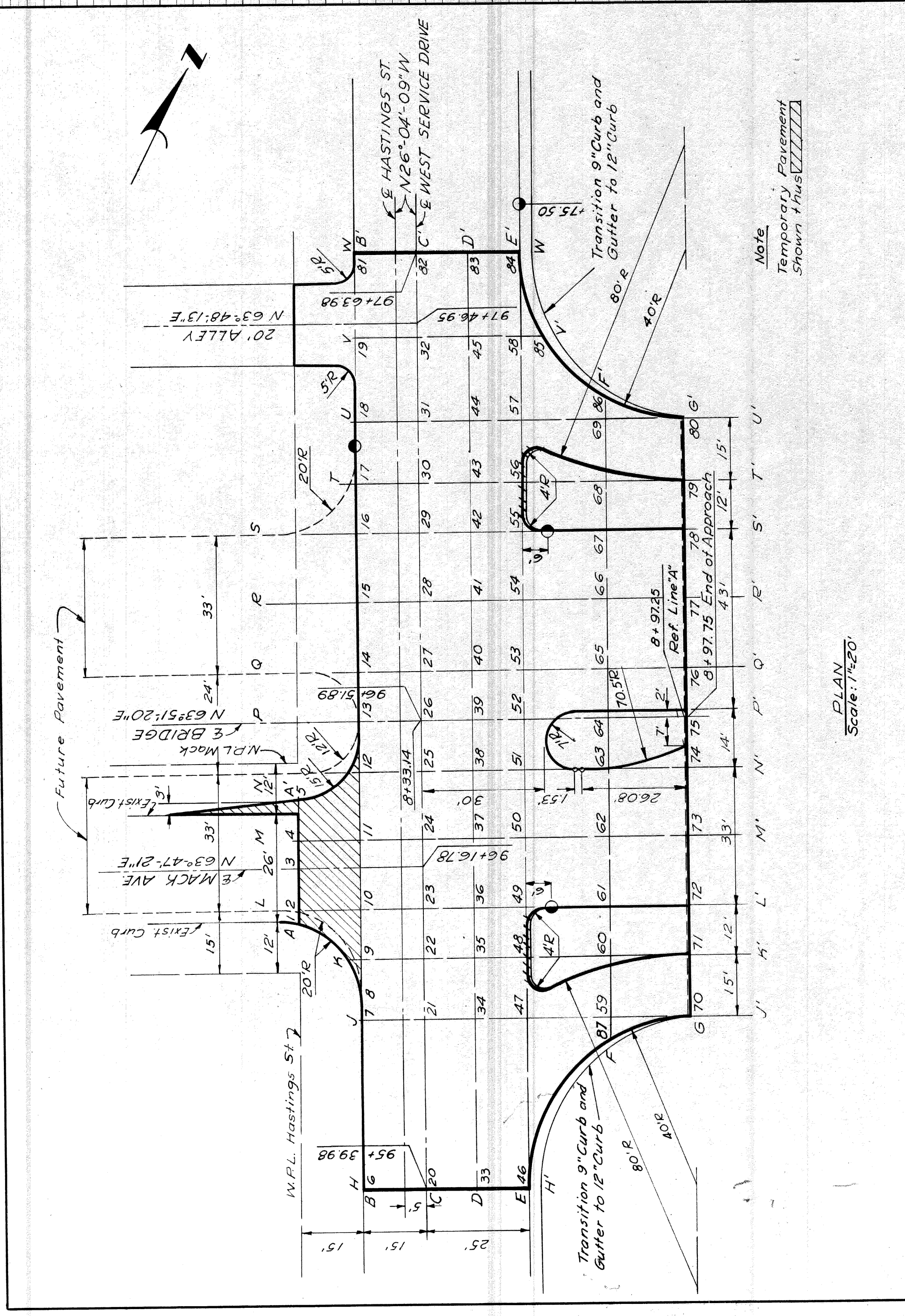
BY	DATE

PLANS PREPARED BY
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

B.P. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	MICH		54	54
ROUTE	CITY	COUNTY	PROJECT	
82251	DETROIT	WAYNE	DETROIT	



**DETAILED GRADES OF INTERSECTION OF
 MACK AVE. & WEST SERVICE DRIVE**

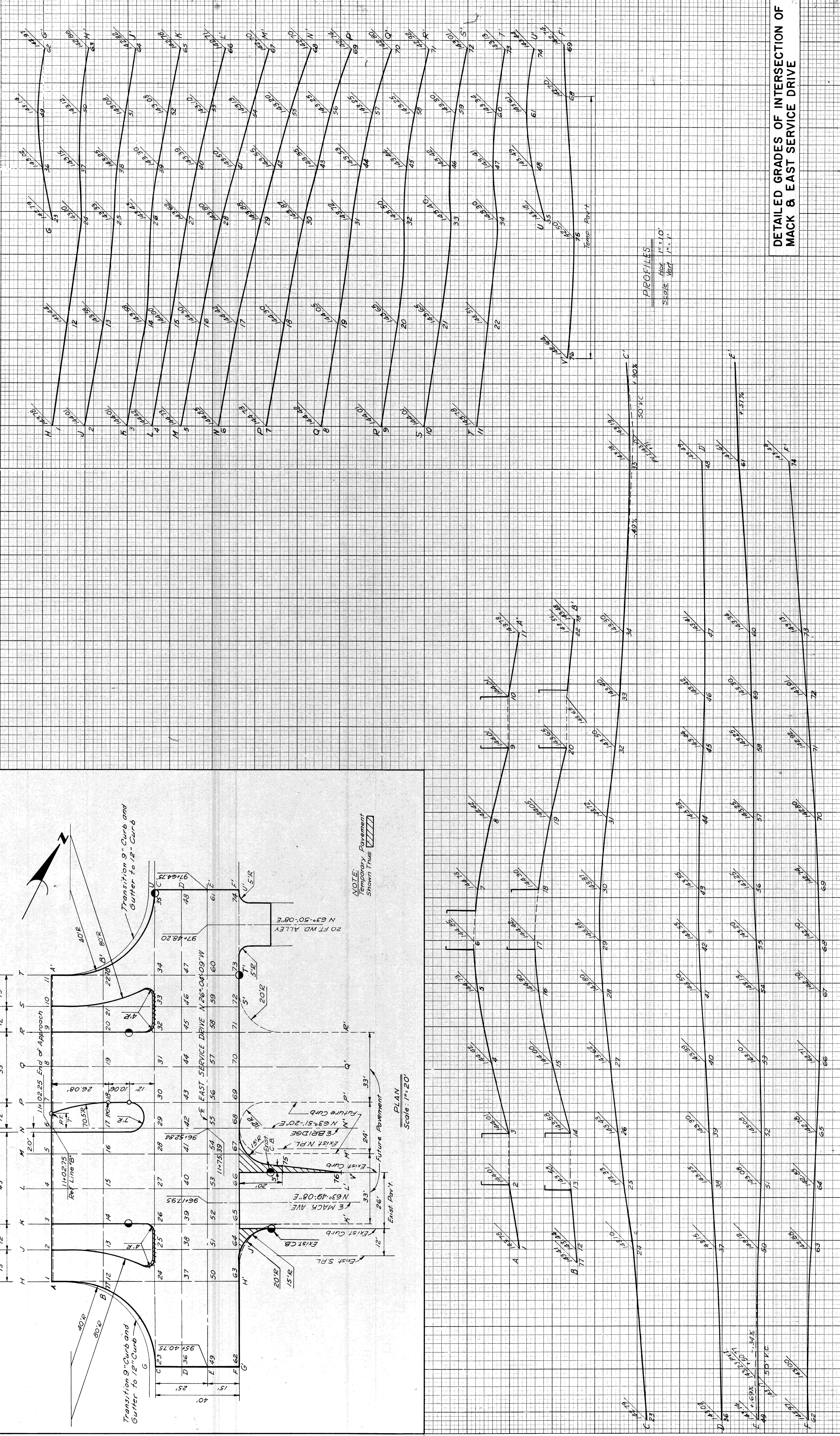
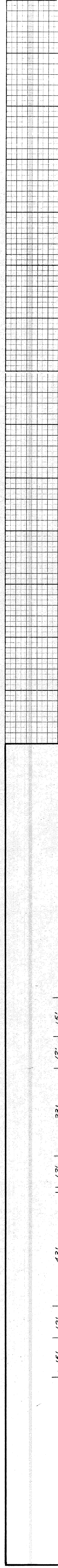


DATE	BY	PLAN DESIGNED
2-29	CHILBURN, C.	CHILBURN, C.
4-29	CHILBURN, C.	CHILBURN, C.

DATE	BY	PLOTTED

PLANS PREPARED BY
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 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MICH.	4		55	55
COUNTY	CWPY.	SHEET NO.	TOTAL SHEETS	
DETROIT	82251	55		



**DETAILED GRADES OF INTERSECTION OF
 MACK & EAST SERVICE DRIVE**

PROFILES
 HORIZ. 1" = 10'
 VERT. 1" = 1'

NOTE:
 Temporary Pavement
 Shown Thus [Symbol]

PLAN
 Scale: 1" = 20'

DATE	BY	PLAN DESIGNED
8-23	C. R. HARRIS	
8-23	L. HARRIS	PLAN CHECKED
8-23	L. HARRIS	ROAD LEADER
8-23	L. HARRIS	RECOMMENDED FOR APPROVAL

DATE	BY	PLOTTED
		CHECKED

PLANS PREPARED BY
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS