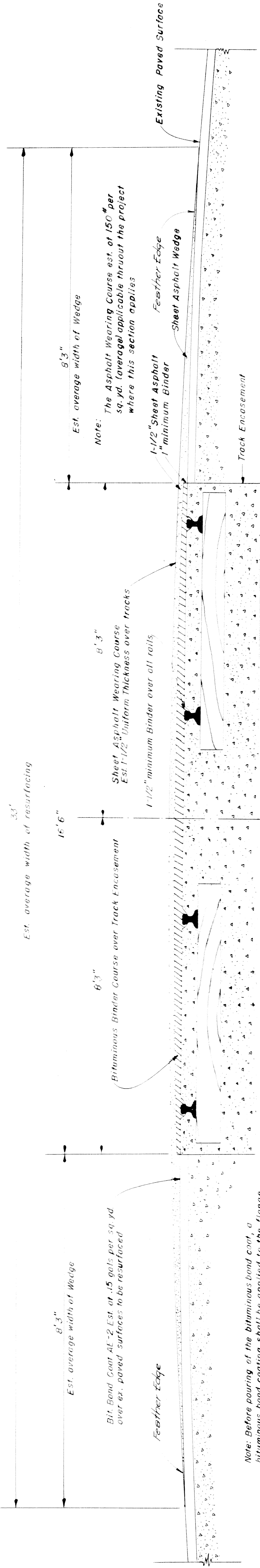




# TYPICAL CROSS-SECTIONS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	MICH.	U-229-43			
ROUTE	PROJECT	COUNTY	TWP.	SHEET NO.	TOTAL SHEETS
US-16	82-125 Wayne	Detroit		2	
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	MICH.				
ROUTE	PROJECT	COUNTY	TWP.	SHEET NO.	TOTAL SHEETS

GRAND RIVER AVE. DETROIT

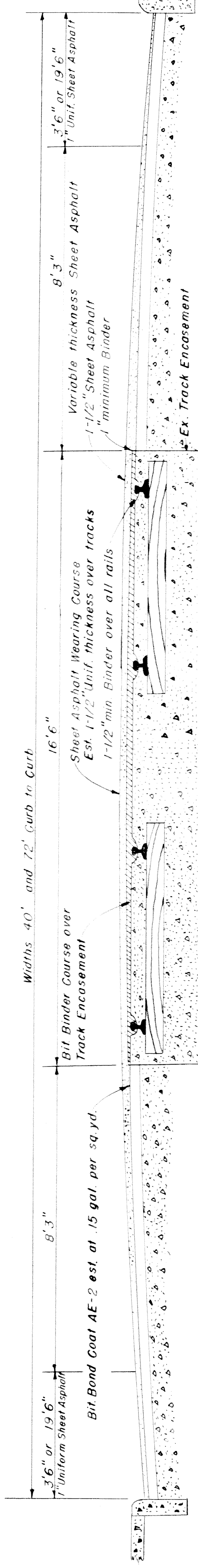


Note: Before pouring of the bituminous bond coat, a bituminous bond coating shall be applied to the flange groove and inside face of rails to the limits of rail exposure, and a sheet asphalt mixture placed in the groove, and be thoroughly compacted by tamping or rolling. This applies over the entire project.

## SECTION SHOWING PROPOSED RESURFACING OF STREET RAILWAY TRACKS

To Apply Cass to Trumbull Sta 15+25.7 to 74+80  
Sixteenth to Warren Sta. 120+00 to 122+64

Scale 3/4"=1'

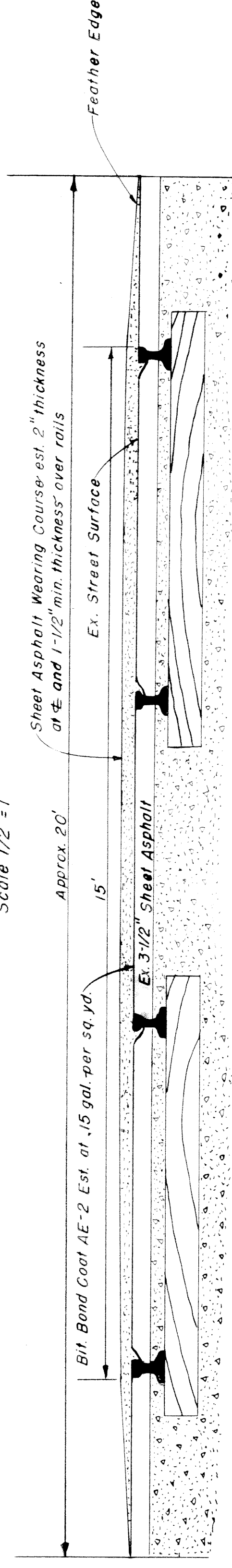


Note: The Sheet Asphalt Wearing Course est. 170# per sq. yd. (av.) for 40' width 140# per sq. yd. (av.) for 72' width

## SECTION SHOWING PROPOSED FULL WIDTH RESURFACING

To Apply Washington Blvd. to Cass Sta. 41+24 to 15+25.7 40' Width Sheet Asphalt  
Trumbull to Sixteenth Sta. 74+80 to 120+00 72' Width Sheet Asphalt  
Linwood to Joy Rd. Sta. 131+90 to 249+19 72' Width Sheet Asphalt

Scale 1/2"=1'



## SECTION SHOWING PROPOSED RESURFACING OF TRACK ENCASEMENT ONLY

To Apply Warren to Linwood Sta. 122+64 to 131+90  
Sheet Asphalt est. 170 per sq. yd. average

Scale 3/4"=1'



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	MICH.	U-229(3)			
ROUTE	PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
US 76	82-25-4(1)	Wayne	Dearborn	3	
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	MICH.				
ROUTE	PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

82-125 - U - 229(3)

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.

Barricade and Construction Sign E-6-A-550

82-125 - U - 229(3)

PUBLIC UTILITIES

The following public utilities are represented on this project:

Publicly Owned

- Street Railway Track
- Water Mains
- Conduits and Overhead Lines
- Signal Lines and Traffic Lights
- Signal Lines and Fire Hydrants
- Department of Street Railways
- Department of Water Supply
- Public Lighting Commission
- Police Department
- Fire Department

Privately Owned

- Conduits and Overhead Lines
- Conduits
- Gas Lines
- Detroit Edison Company
- Michigan Bell Telephone Company
- Michigan Consolidated Gas Company

The owners of existing poles and other service structures that are within grading limits and that will interfere with construction operations will move them to locations designated by the Engineer or will remove them entirely from the highway right of way.

Owners of public utilities will not be required by the Department to move additional poles and structures in order to facilitate the operation of construction equipment.

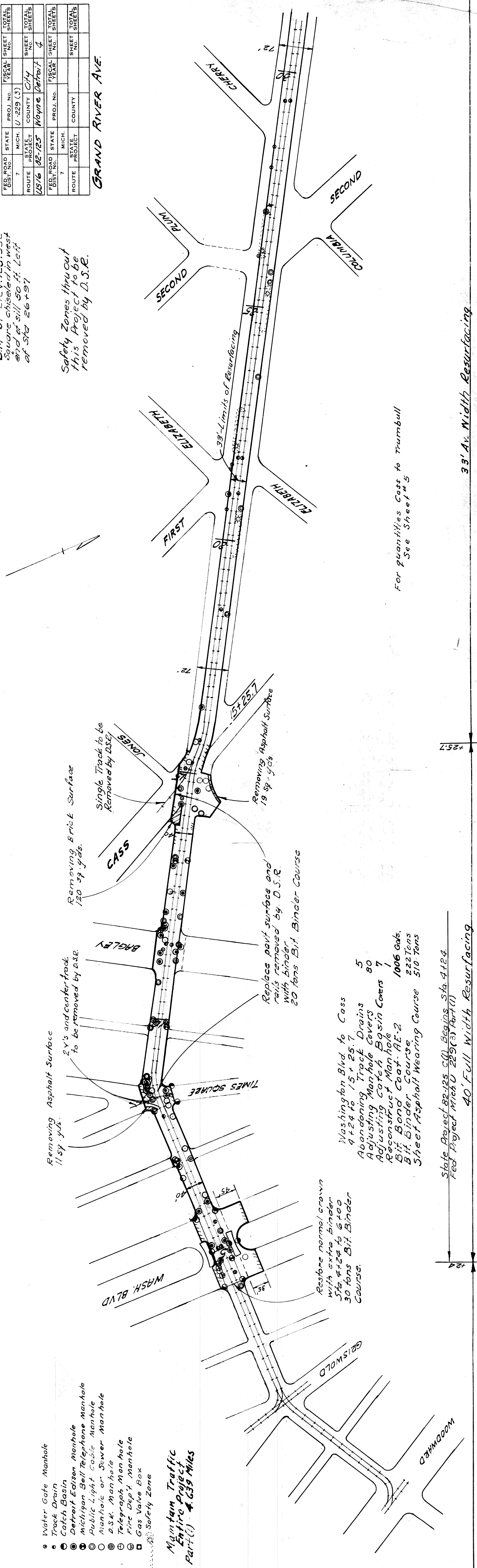


B.M. 67 - Elev. 123.932  
Square chiseled in west  
end of sill 50 ft. left  
of Sta. 26+97

Safety Zones thru Cut  
this Project to be  
removed by D.S.R.

FED. ROAD DIST. NO.	STATE	MICH.	PROJ. NO.	U-229 (3)	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
ROUTE	STATE	MI.	COUNTY	Wayne	City	SHEET NO.	TOTAL SHEETS
ROUTE	STATE	MI.	COUNTY	Wayne	City	SHEET NO.	TOTAL SHEETS

GRAND RIVER AVE.



- Washington Blvd to Cass 4+24 to 5+25.7
- Abandoning Track Drains 5
- Adjusting Manhole Covers 80
- Adjusting catch Basin Covers 7
- Reconstruct Manhole 1
- Bit Bond Coat. AL-2 1006 gals.
- Bit Binder Course 222 Tons
- Sheet Asphalt Wearing Course 510 Tons

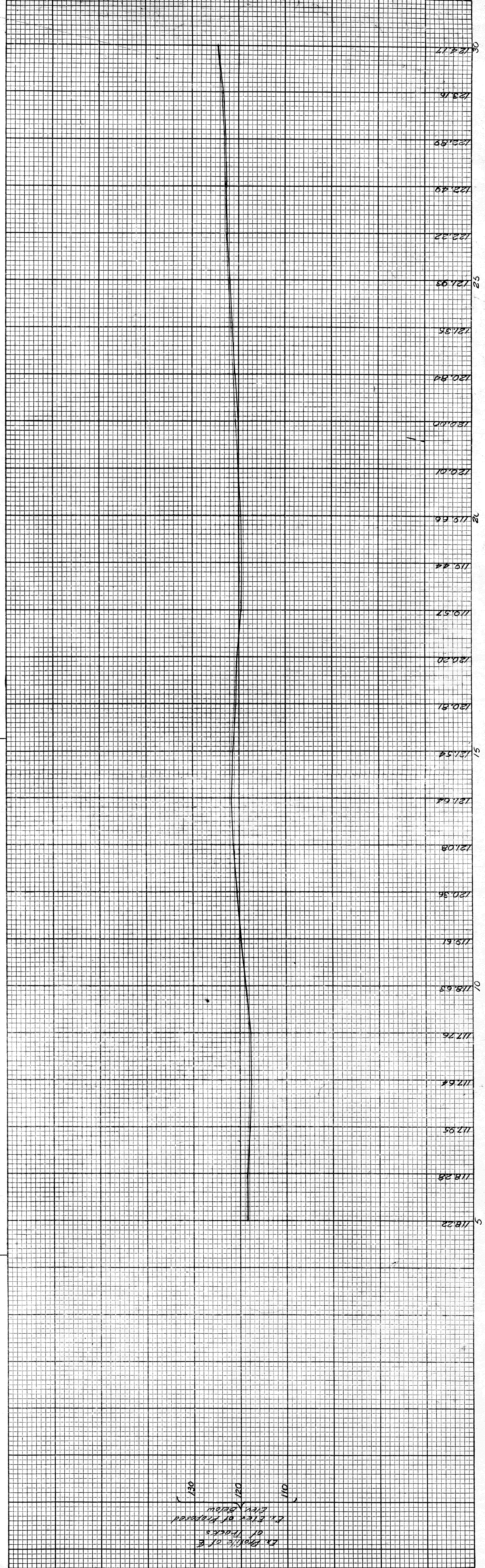
State Project 82-125 C(1) Begins Sta. 4+24  
Fed Project Mich U-229(3) Part(1)

- Water Gate Manhole
- Track Drain
- Catch Basin
- Detroit Edison Manhole
- Michigan Bell Telephone Manhole
- Public Light Gas Manhole
- Manhole or Sewer Manhole
- D.S.R. Manhole
- Telegraph Manhole
- Fire Dept. Manhole
- Gas Valve Box
- Safety Zone

Mountain Traffic  
Entire Project  
Part (1) 4.639 Miles

OPERATION	DATE
PRELIMINARY R.O.W. CHECKED	
FINAL DESIGN CHECKED	
QUANTITIES CHECKED	
FINAL R.O.W. CHECK	
DATE	7-27

OPERATION	DATE
SURVEYED	6-27
PLAN CHECKED	
PROFILES PLOTTED	
PRELIMINARY GRADE	
GRADE INSPECTION	
FEDERAL INSPECTION	
DATE	7-27





FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	MICH.	17-229(3)		5	5
ROUTE	COUNTY	CITY	DATE		
US-76	Wayne	Dearborn			
DIS. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	MICH.				
ROUTE	COUNTY	CITY	DATE		

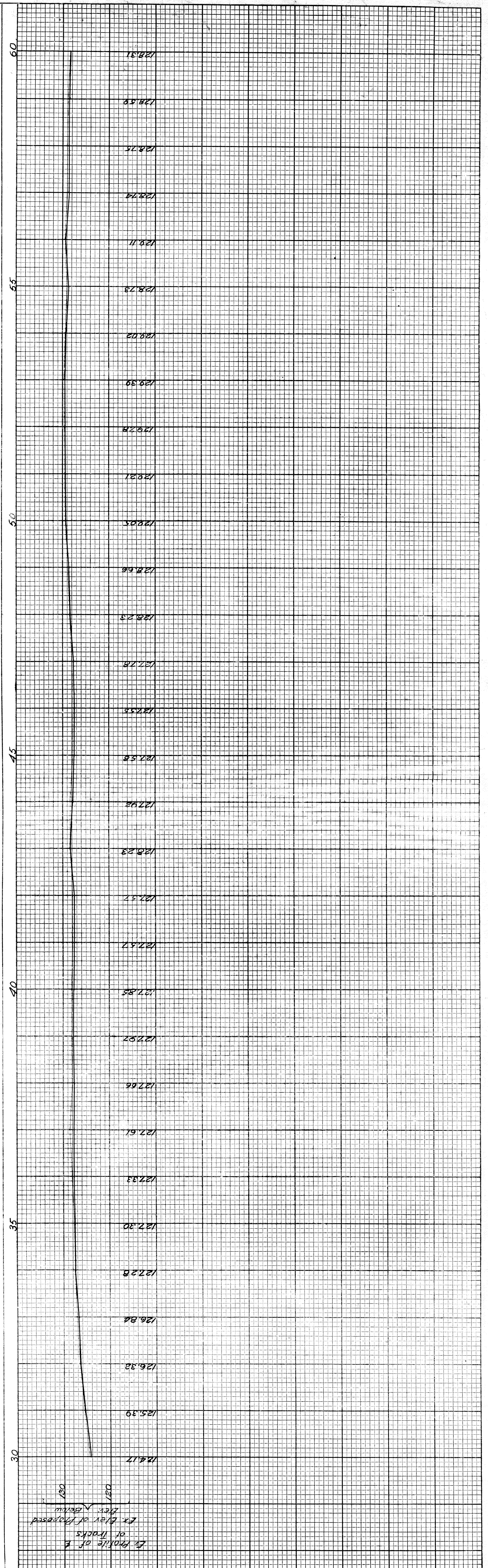
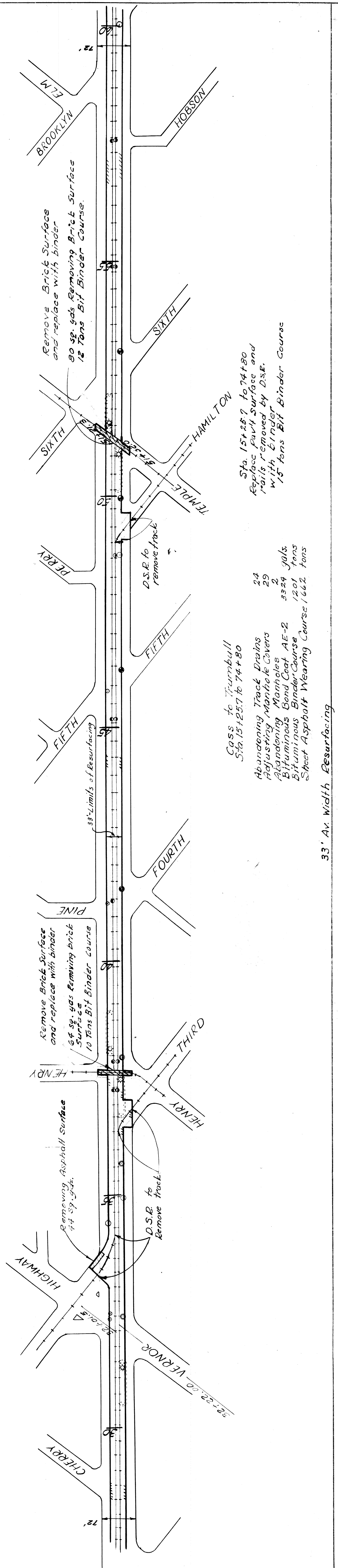
GRAND RIVER AVE

B.M. # 13 Elev. 123.900  
Square chiseled in cast  
iron base plate 50 H.  
LT of STA 55+53

B.M. # 64 Elev. 130.175  
Levelled corner of water  
table 11:1 Lt of Sta. 54+11

B.M. # 65 Elev. 129.265  
Square chiseled in center  
gas pump island  
53 ft Lt. of Sta. 44+67

B.M. # 66 Elev. 130.460  
Square chiseled in water  
table 61 ft Lt. of Sta. 36+47



OPERATION	DATE
PRELIMINARY R.O.W. CHECKED	7-47
FINAL DESIGN	7-47
FINAL DESIGN CHECKED	7-47
QUANTITIES CHECKED	7-47
FINAL R.O.W. CHECK	7-47
OPERATION	DATE
BY	
DATE	

OPERATION	DATE
SURVEYED	6-47
PLAN PLOTTED	7-47
PROFILE PLOTTED	7-47
PRELIMINARY GRADE	7-47
GRADE INSPECTION	7-47
FEDERAL INSPECTION	7-47
BY	
DATE	



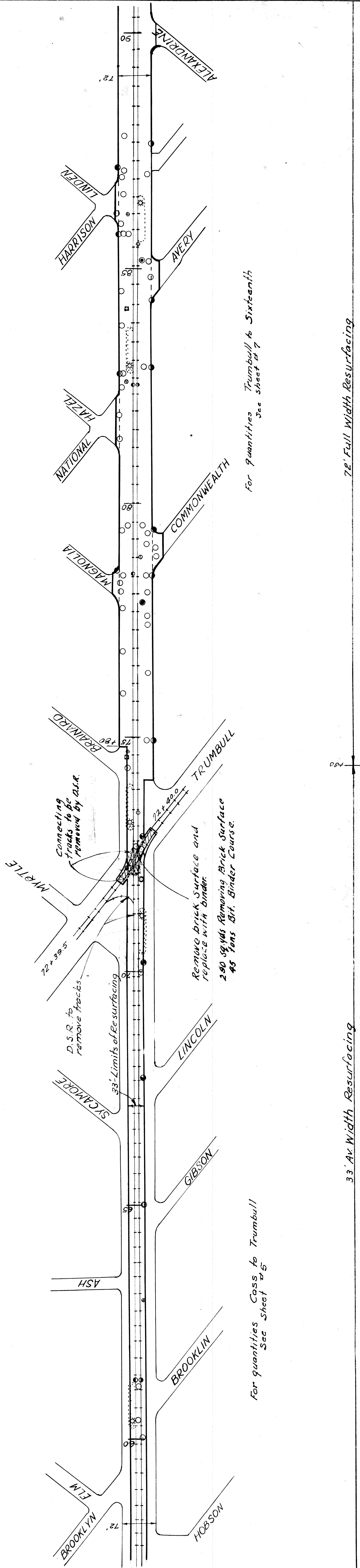
B.M. # 60 - Elev. 132.348  
Square chiseled in door sill  
50 ft. Left of Sta. 83+91

B.M. # 61 - Elev. 132.025  
Square chiseled in cap stone  
64 ft. RH of Sta. 74+30

B.M. # 62 - Elev. 130.250  
Square chiseled in door sill  
60 ft. Left of Sta. 66+47

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	MICH.	U-229 (3)			
ROUTE PROJECT	COUNTY	CITY		SHEET NO.	TOTAL SHEETS
US 16/82-125	Wayne	Detroit		6	
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	MICH.				
ROUTE PROJECT	COUNTY			SHEET NO.	TOTAL SHEETS

Grand River Ave.



For quantities Cross to Trumbull  
See sheet 7-5

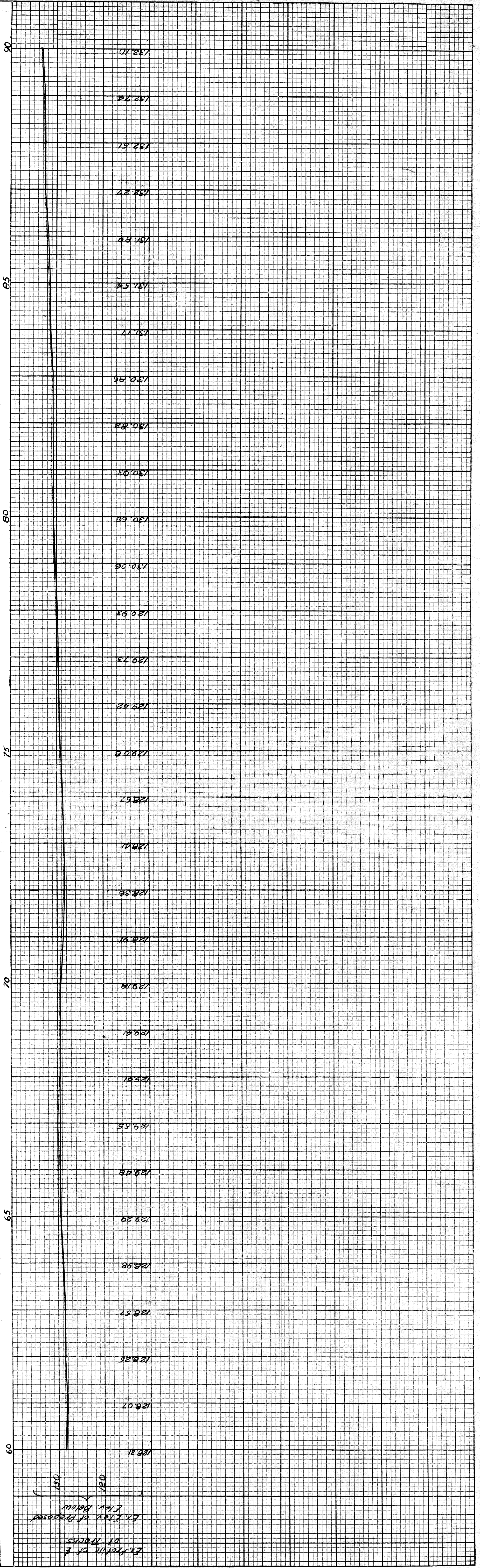
For quantities Trumbull to Sixteenth  
See sheet 7-7

33' Av Width Resurfacing

72' Full Width Resurfacing

OPERATION	DATE
PRELIMINARY R.O.W. CHECKED	6-27
FINAL DESIGN CHECKED	6-27
TRACED	
FINAL R.O.W. CHECK	
QUANTITIES CHECKED	
BOUND	

OPERATION	DATE
SURVEYED	6-27
PLAN RECHECKED	6-27
PROFILE PLOTTED	7-27
PRELIMINARY GRADE	
GRADE INSPECTION	
FEDERAL INSPECTION	





FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	MICH.	U-229 (3)		7	7
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
US-16	82-125	Wayne	Detroit	7	7
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

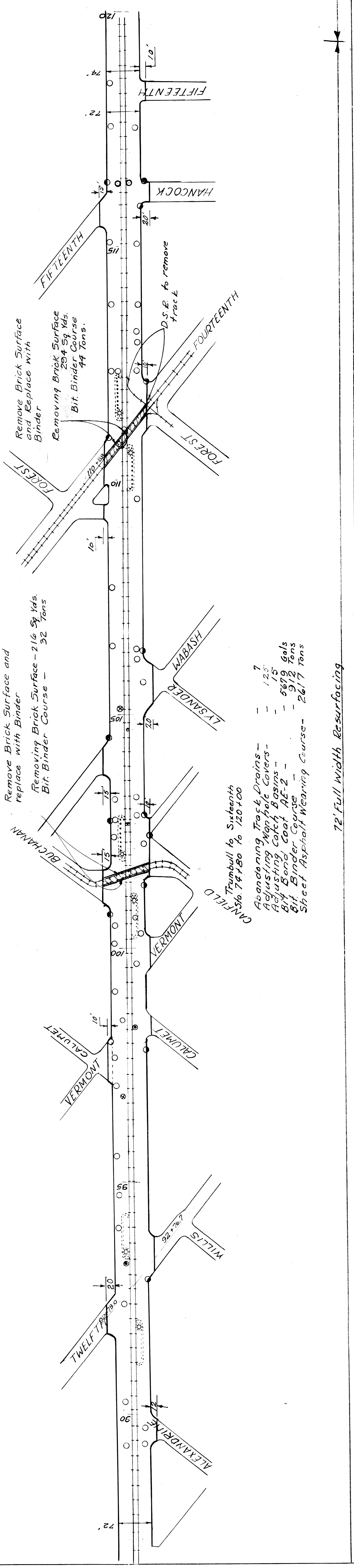
Grand River Ave.

B.M. #56 - Elev. 140.610  
Triangle chiseled in  
base of stone column  
74th St. of Sta. 117192

B.M. #57 - Elev. 136.842  
Square chiseled in door sill  
35th St. of Sta. 110488

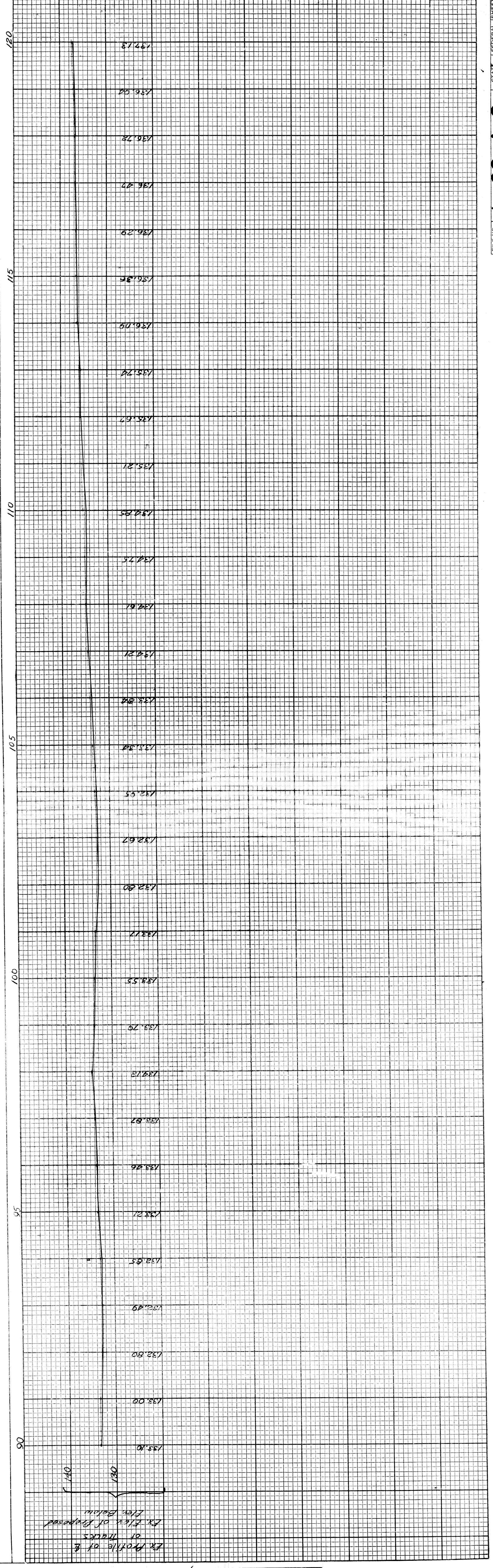
B.M. #58 - Elev. 133.115  
Square chiseled in curb  
50th St. of Sta. 102167

B.M. #59 - Elev. 133.810  
Cross chiseled in stone  
step 57th St. of Sta. 92144



- Abandoning Traffic Drains - 7
- Adjusting Manhole Covers - 125'
- Adjusting Catch Basins - 15'
- Bit Bond Coat AE-2 - 5679 Gals
- Bit Binder Course - 912 Tons
- Sheet Asphalt Wearing Course - 2617 Tons

72' Full Width Resurfacing



OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
FINAL DESIGN CHECKED		
FINAL R.O.W. CHECK		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
SURVEYED	Marty	7-47
PLAN CHECKED		
PROFILE PLOTTED		
PRELIMINARY GRADE		
FINAL R.O.W. CHECK		
GRADE INSPECTION		
FEDERAL INSPECTION		



FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	MICH.	U-229-3	8	8
ROUTE	CITY	COUNTY	DATE	
US 16	Ashtabula	Ashtabula	Dec 17 1937	
FISCAL YEAR	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
1937	MICH.	U-229-3	8	8
ROUTE	CITY	COUNTY	DATE	

Grand River Ave.

B.M. # 52 - Elev. 140.330  
Square chiseled in door sill  
50 ft. Lt. of Sta. 145+43

B.M. # 53 - Elev. 139.127  
Square chiseled in Gas  
Pump Island 56 ft. Lt.  
of Sta. 137+41

B.M. # 59 - Elev. 138.625  
Square chiseled in door sill  
50 ft. Lt. of Sta. 130+07

Sixteenth to Warren  
Sta. 120+00 to 122+04

Abandoning Manholes  
B-1, B-2, B-3  
B-4, B-5  
B-6, B-7  
B-8, B-9  
B-10, B-11  
B-12, B-13  
B-14, B-15  
B-16, B-17  
B-18, B-19  
B-20, B-21  
B-22, B-23  
B-24, B-25  
B-26, B-27  
B-28, B-29  
B-30, B-31  
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B.M. # 23 - Elev. 143.325  
Cross checked in water table  
50 ft. Lt. of Sta. 175+31

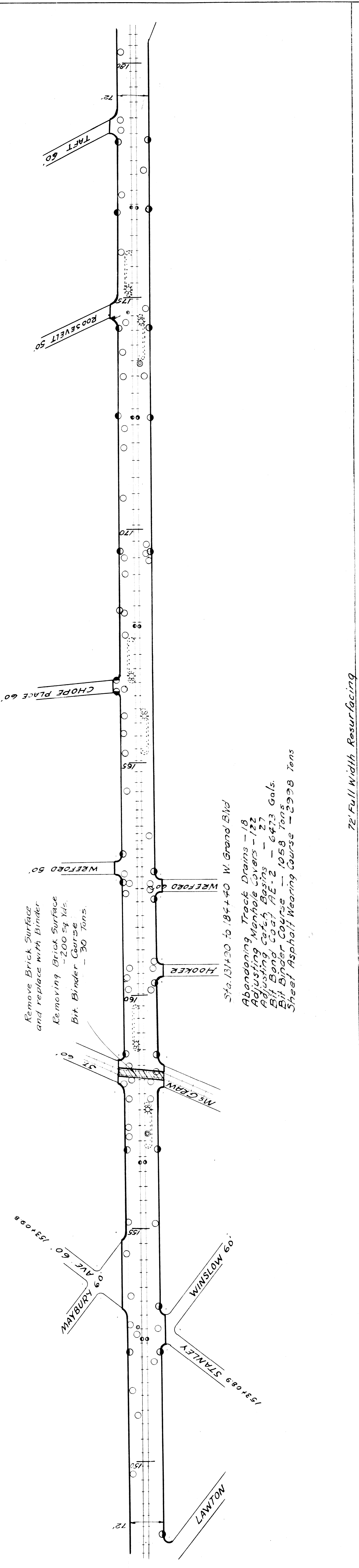
B.M. # 29 - Elev. 142.282  
Cross checked in door sill  
50 ft. Lt. of Sta. 169+77

B.M. # 30 - Elev. 142.357  
Cross checked in window  
sill 50 ft. Lt. of Sta. 140+21

B.M. # 31 - Elev. 140.170  
Square checked in door sill  
50 ft. Lt. of Sta. 152+95

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	MICH.	U-227(3)	1947	9	9
ROUTE	PROJECT	COUNTY	TOWN	SHEET NO.	TOTAL SHEETS
U.S. 74	82-125	Wayne	Parrot	9	9
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	MICH.	U-227(3)	1947	9	9
ROUTE	PROJECT	COUNTY	TOWN	SHEET NO.	TOTAL SHEETS
U.S. 74	82-125	Wayne	Parrot	9	9

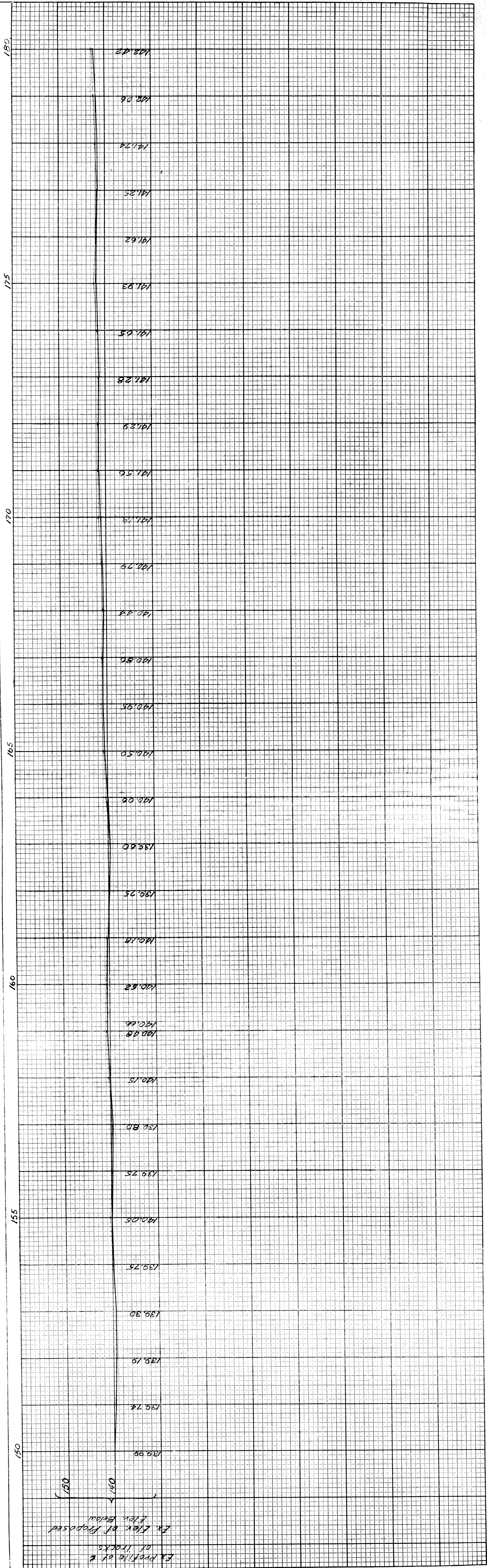
Grand River Ave.



Remove Brick Surface and replace with binder  
Removing Brick Surface - 200 sq Yds.  
Bit Binder Course - 30 Tons.

Sta. 131+30 to 184+40 W. Grand Blvd  
Abandoning Track Drains - 18  
Adjusting Manhole Covers - 122  
Adjusting Catch Basins - 27  
Bit Binder Course - 6473 Gals.  
Bit Binder Course - 1058 Tons  
Sheet Asphalt Wearing Course - 2998 Tons

72' Full Width Resurfacing



Ex Elev of Proposed  
Elev Below  
of Tracks

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRACED		
FINAL R.O.W. CHECK		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
SURVEYED	W. J. ...	6-27
PLAN CHECKED	W. J. ...	6-27
PROFILE PLOTTED	W. J. ...	7-27
PRELIMINARY GRADE	W. J. ...	7-27
GRADE INSPECTION	W. J. ...	7-27
FEDERAL INSPECTION	W. J. ...	7-27



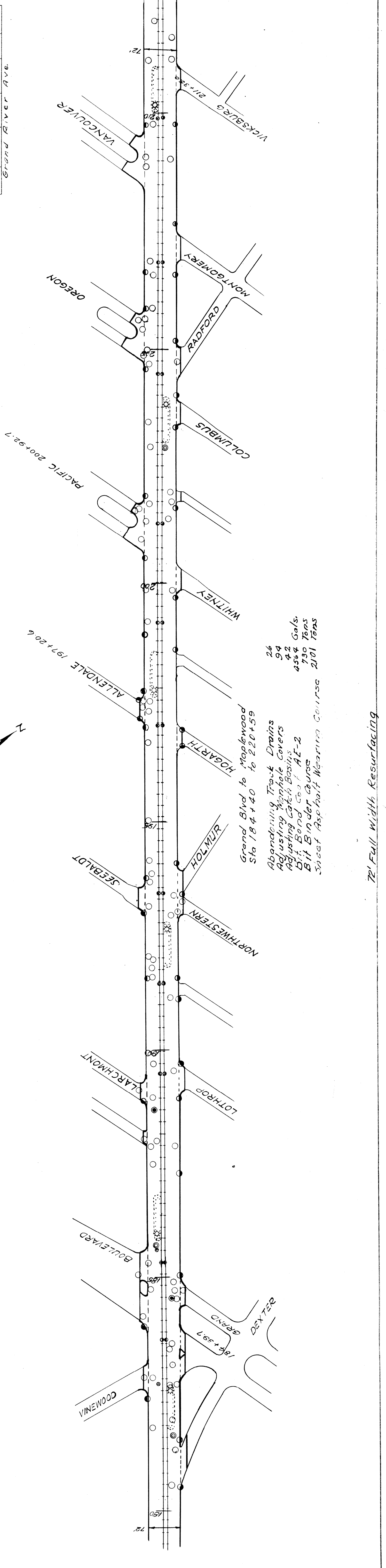
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	MICH.	229 (3)			
ROUTE	COUNTY	CITY	SHEET NO.	TOTAL SHEETS	
U.S. 16	Wayne	Detroit	10		
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	MICH.				
ROUTE	COUNTY				

B.M. #44 - Elev. 143.725  
Square chiseled in door sill  
SOUTH Lt. of Sta. 208+109

B.M. #45 - Elev. 143.183  
Square chiseled in door sill  
SOUTH Lt. of Sta. 199+20

B.M. #46 - Elev. 142.493  
Square chiseled in door sill  
SOUTH Lt. of Sta. 191+23

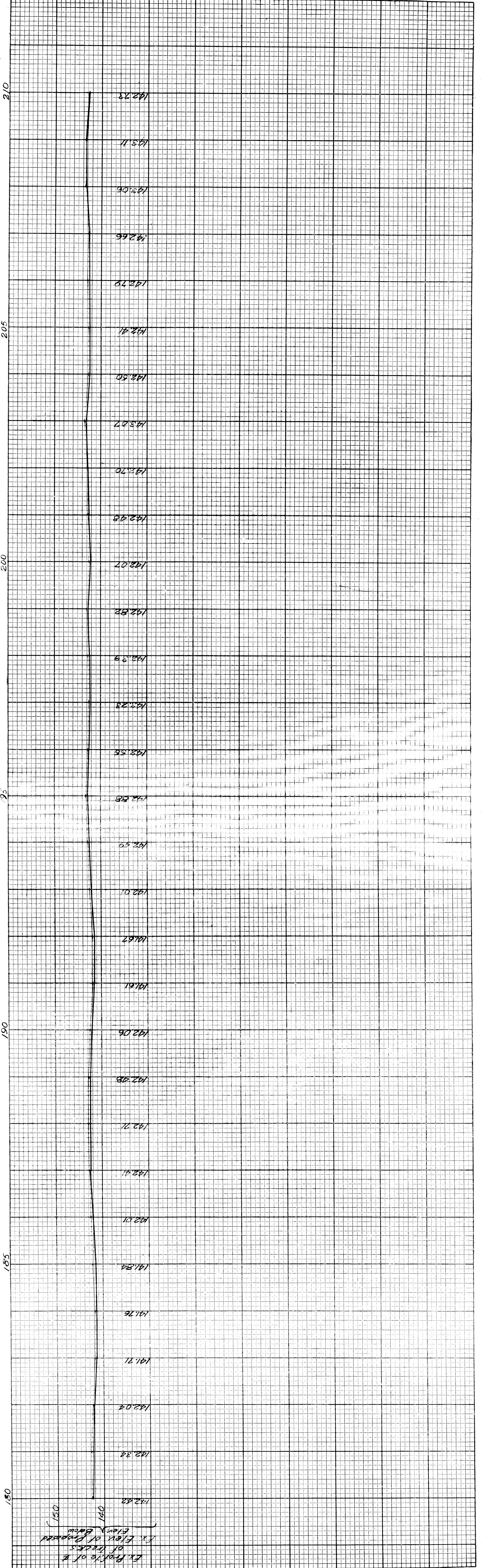
B.M. #47 - Elev. 142.955  
Square chiseled on end step  
SOUTH Lt. of Sta. 183+08



Grand Blvd to Maplewood Sta 184+40 to 220+59  
Abandoning Truck Drains 26  
Adjusting Manhole Covers 94  
Adjusting Catch Basins 42  
Bit Binder Course 4564 Gals.  
Bit Binder Course 730 Tons  
Sweet Asphalt Wearing Course 2101 Tons

72' Full Width Resurfacing

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRACED		
FINAL R.O.W. CHECK		
QUANTITIES CHECKED		
SOUND		



EX Profile of E  
Kx Elev. of Proposed  
Elev. of Ground

OPERATION	BY	DATE
SURVEYED	Jenkins	6-27
PLAN PLOTTED		6-27
PLAN CHECKED		
PROFILE CHECKED	Hull	7-27
PRELIMINARY GRADE		
GRADE INSPECTION		
FEDERAL INSPECTION		
REVISIONS		
DATE		











