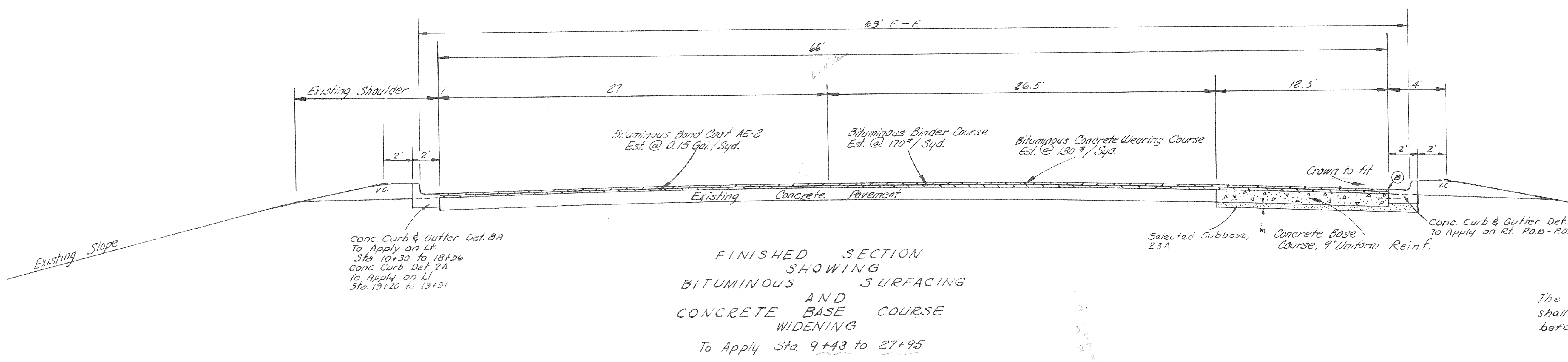
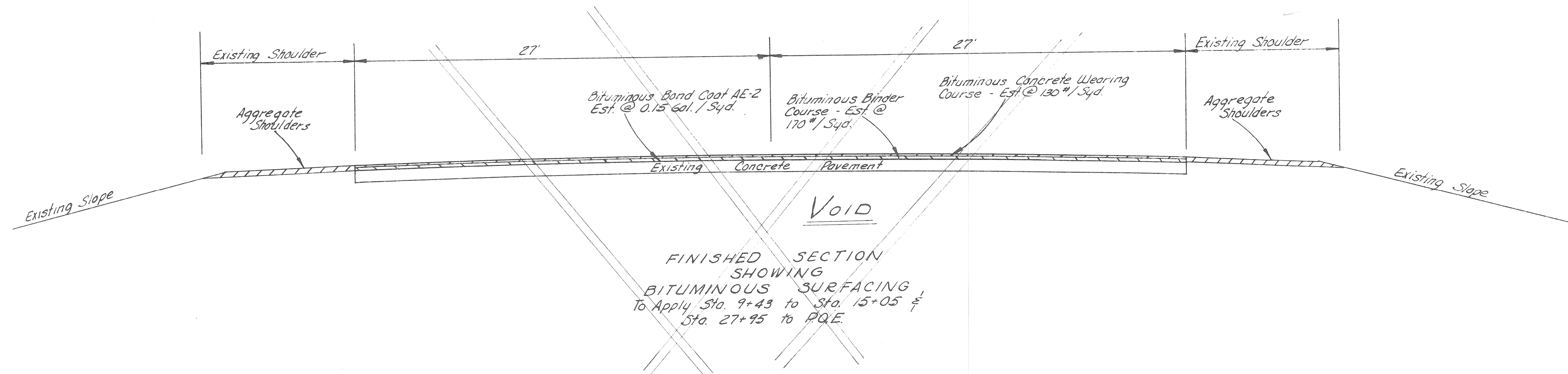


TYPICAL CROSS-SECTIONS

B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
M-39	82-137	Wayne	Dearborn	2	
B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



NOTES

The edge of the existing pavement shall be thoroughly cleaned before the widening is placed.

JOINT LEGEND

B - Longitudinal Bulkhead Construction Joint, According to Standard Plan E-4-19-33F, Detail 2.

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE PROJECT	COUNTY	CITY		SHEET NO.	TOTAL SHEETS
W-39 82-137	Wayne	Dearborn		3	
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE PROJECT	COUNTY			SHEET NO.	TOTAL SHEETS

10071

ROADWAY STUDY PLAN

Where the following items are called for or shown, they are to be constructed according to the Standard Plan shown below opposite each item unless otherwise indicated:

- Castle Walkways E-4-1-100, with 12" or 15" concrete reinforcement E-4-1-101
- Traffic Crossings E-4-1-102 (except that the depth of the shoulder shall be 18" instead of 12")
- Manholes, laterals, and inlets Cover A E-4-1-103-1
- Cover B E-4-1-103-2
- Concrete Curb, with Curb and gutter E-4-1-104
- Driveway Return and Driveway Openings E-4-1-105
- Parade Driveway E-4-1-106 (excepting that when the bars will not be permitted)
- Pavement Grooves E-4-1-107-1
- 4" Concrete Sidewalk E-4-1-108, Detail 2
- Concrete Pavement, 7 1/2" uniform dressed double gutters E-4-1-109, Detail 4
- Block for Installation for Load Transfer at Transverse Construction and Expansion Joints. E-4-1-110, E-4-1-110A, E-4-1-110B, or other approved equal.
- Base Plates for Transverse Pavement Joints E-4-1-111 (except that spot weld may be substituted for rivets to stretch the angles)
- Location of Transverse Expansion and Contraction Joints in Concrete Pavement E-4-1-112
- Parade and Project Sign E-4-1-113
- Concrete Headwalls for Circular Culverts, 18" to 24" diameter. (Headwalls are to be omitted from all circular drive culverts up to 24" diameter, inclusive and a concrete ring shall be placed at each end of these culverts.) E-4-1-114

PUBLIC UTILITIES

Name and Address of Owner	Kind of Utility	Size or Capacity	Location Sta. to Sta.
Detroit Edison Co. 2000 Gerard Ave. Detroit 26, Michigan Att: Mr. W.F. Perrone, Director, Planning and Project Engineering Dept.	Power - Distribution and Poles	Unknown	PDG - 100
Mich. Bell Telephone Co. 7970 Linton St. Detroit, Mich. Att: Mr. C.W. Williams, District Plant Engineer	Telephone Poles	Unknown	T - 100
Mich. Consolidated Gas Co. 415 Clifford St. Detroit 26, Michigan Att: Mr. H.M. Allen, Superintendent	Gas Main	4" Main, R.P.	Crosses 18 + 00
Unknown	Rapids	4"	Crosses 26 + 00
City of Detroit 400 Woodward Ave. Detroit, Michigan Att: Mr. Thomas D. Leadbetter, City Clerk	Water Main Sewers	Unknown Unknown	Unknown Unknown

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. #1 - Elev. 589.27
 Arrow on Fire Hydrant
 39 Ft. of Sta. 9+61.
 S.E. Cor. of Schaefer
 and Oakwood.

P.O.B. - Sta. 10+00
 S 2°W - Nail & Cap in Power Pole - 86.35'
 N 61°W - " " " " - 71.97'
 S 52°W - " " " " - 73.60'
 Westerly - Broken Pk. Nail in
 center line of Oakwood - 300.0'
 - Pk. Nail -

B.M. #2 - Elev. 588.94
 Arrow on Fire Hyd.
 49 Ft. of Sta. 15+79.
 S.W. Cor. of Schaefer
 and Dora.

PI - Sta. 15+82.79
 N 62°W - 12" Poplar - 82.39'
 S 59°W - Hd. of Arrow on Fire Hyd. - 52.95'
 S 12°W - N.C.C. in Tel. Pole - 58.35'
 - Chiseled "X"

Curve Data
 $\Delta = 16^\circ 42' 30''$ Lt.
 $D = 16' 05'' 00''$
 $R = 357.42'$
 $L = 52.49'$
 $E = 3.83'$
 $PC = 15+30.30$
 $PT = 15+82.79$
 $PT = 16+34.56$

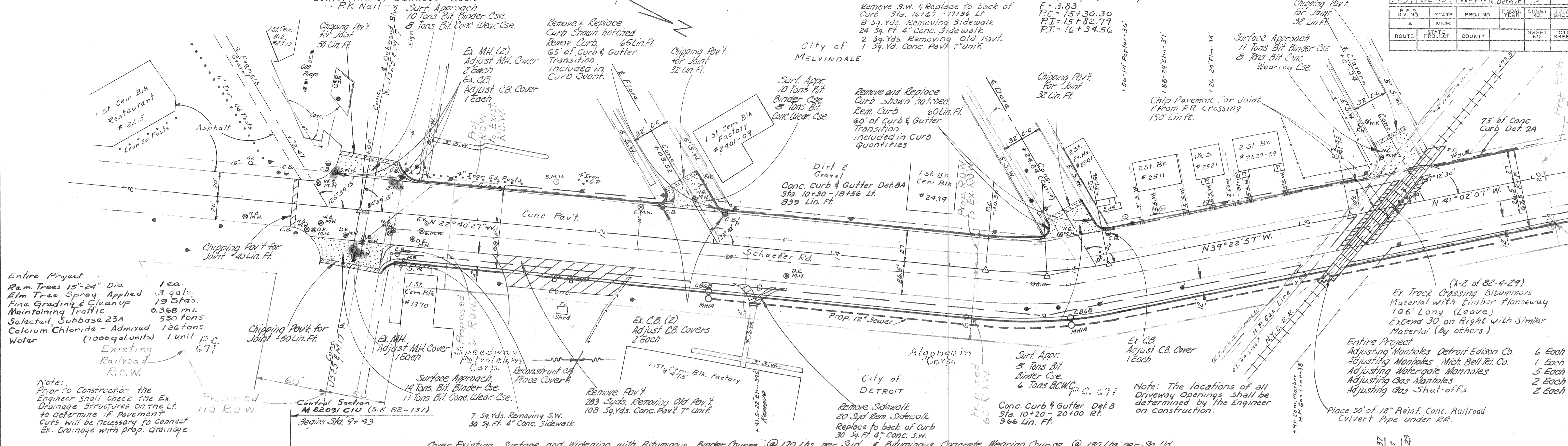
PI - Sta. 18+91.93
 $\Delta = 1^\circ 39' 10''$ Lt.
 S 84°W - N.C.C. in Tel. Pole - 40.04'
 S 73°E - N.C.C. in P. Pole - 57.90'
 S 10°W - N.E. Cor. Ho. #2529 - 69.58'
 - P.K. Nail -

PT - Sta. 18+41.93
 S 84°W - N.C.C. in Tel. Pole - 40.04'
 S 73°E - N.C.C. in P. Pole - 57.90'
 S 10°W - N.E. Cor. Ho. #2529 - 69.58'
 - P.K. Nail -

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
M-39	82-137	Wayne	Detroit	3	

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRAGED		
FINAL R.O.W. CHECK	I. I.	6-4-56
QUANTITIES CHECKED		
SQUAD	BRZDK	1956



Entire Project
 Rem. Trees 13"-24" Dia
 Elm Trees Spray Applied
 19 Stas.
 Maintaining Traffic
 Selectad Subbase 23A
 530 tons
 Calcium Chloride - Admixed
 126 tons
 Water
 (1000 gal. units) 1 unit

Note:
 Prior to Construction the
 Engineer shall check the Ex.
 Drainage Structures on the Lt.
 to determine if Pavement
 Cuts will be necessary to Connect
 Ex. Drainage with Prop. Drainage

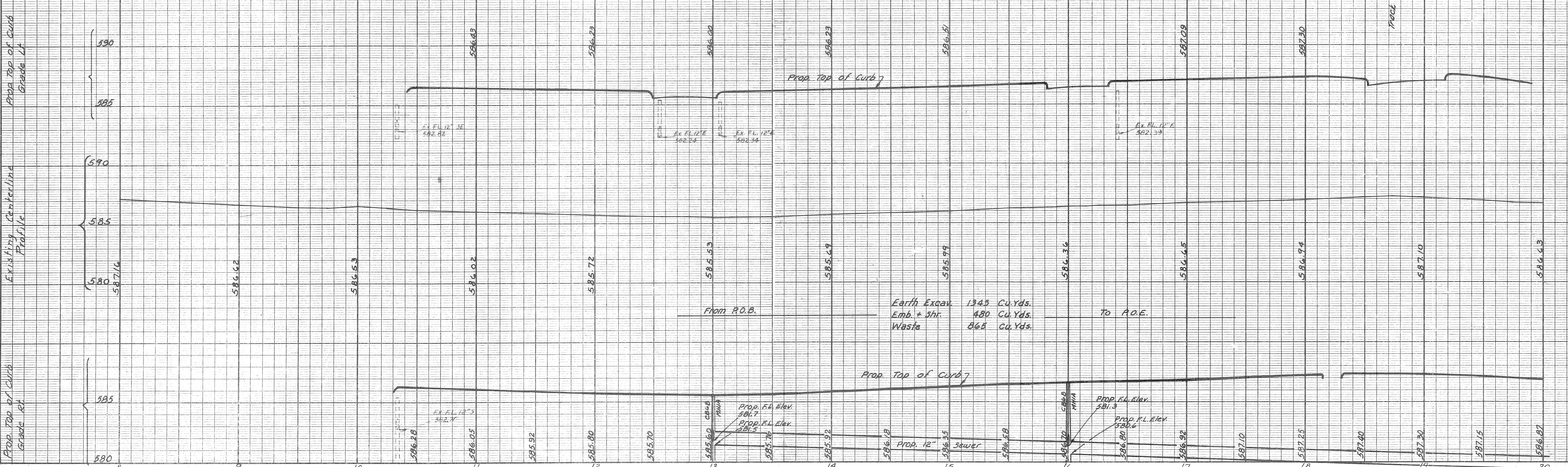
(X-2 of 82-4-29)
 Ex. Track Crossing Bituminous
 Material with timber flangeway
 106' Long (Leave)
 Extend 30' on Right with Similar
 Material (By others)

Entire Project
 Adjusting Manholes Detroit Edison Co. 6 Each
 Adjusting Manholes Mich Bell Tel. Co. 1 Each
 Adjusting Water-gate Manholes 5 Each
 Adjusting Gas Manholes 2 Each
 Adjusting Gas Shut-offs 2 Each

Place 30' of 12" Reinf. Conc. Railroad
 Culvert Pipe under RR.

Over Existing Surface and Widening with Bituminous Binder Course @ 170 Lbs per Sq. Yd. & Bituminous Concrete Wearing Course @ 130 Lbs per Sq. Yd.
 Concrete Curb & Gutter Det. 8A Lk & Widen 125.6' ft with Concrete Base Course 9" uniform & Concrete Curb & Gutter Det. 8

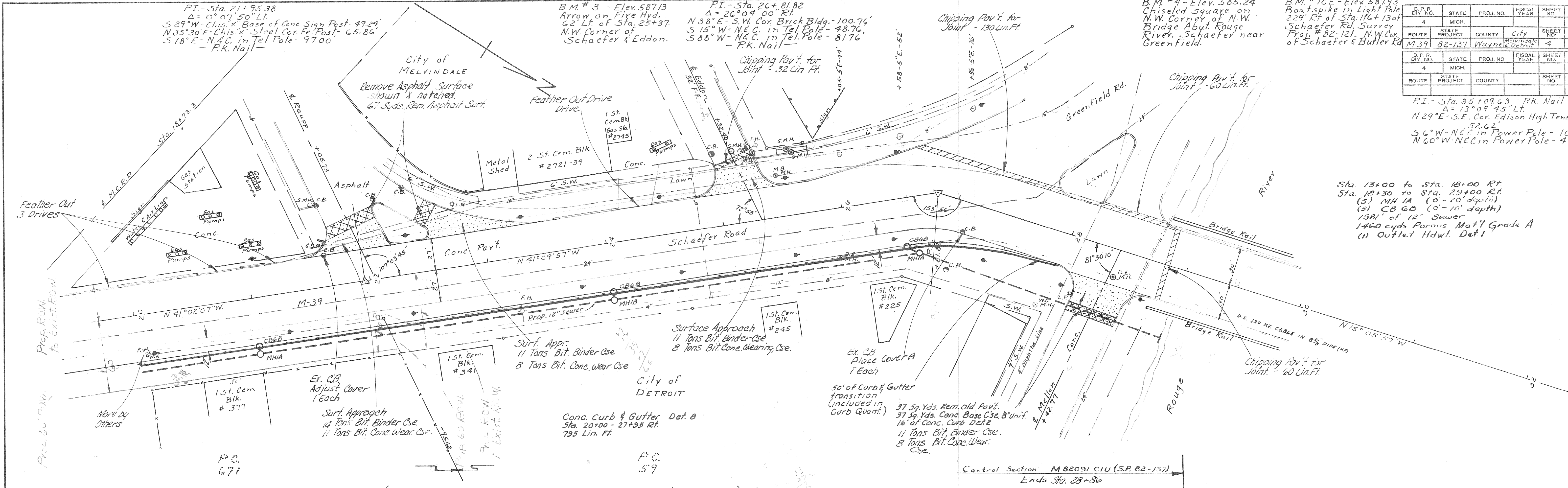
OPERATION	BY	DATE
SURVEY	F. H. Haise	3-56
PLAN CHECKED	P. R. Eddy	5-56
PROFILE PLOTTED	D. R. Eddy	5-56
PRELIMINARY GRADE	T. P. Bessert	6-56
FEDERAL INSPECTION		



Earth Excav. 1345 Cu. Yds.
 Emb. & Shr. 480 Cu. Yds.
 Waste 865 Cu. Yds.

OPERATION	DATE	BY
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRACED		
FINAL R.O.W. CHECK	6-7-56	L.K.
QUANTITIES CHECKED		
SIGNED	1956	Bezdick

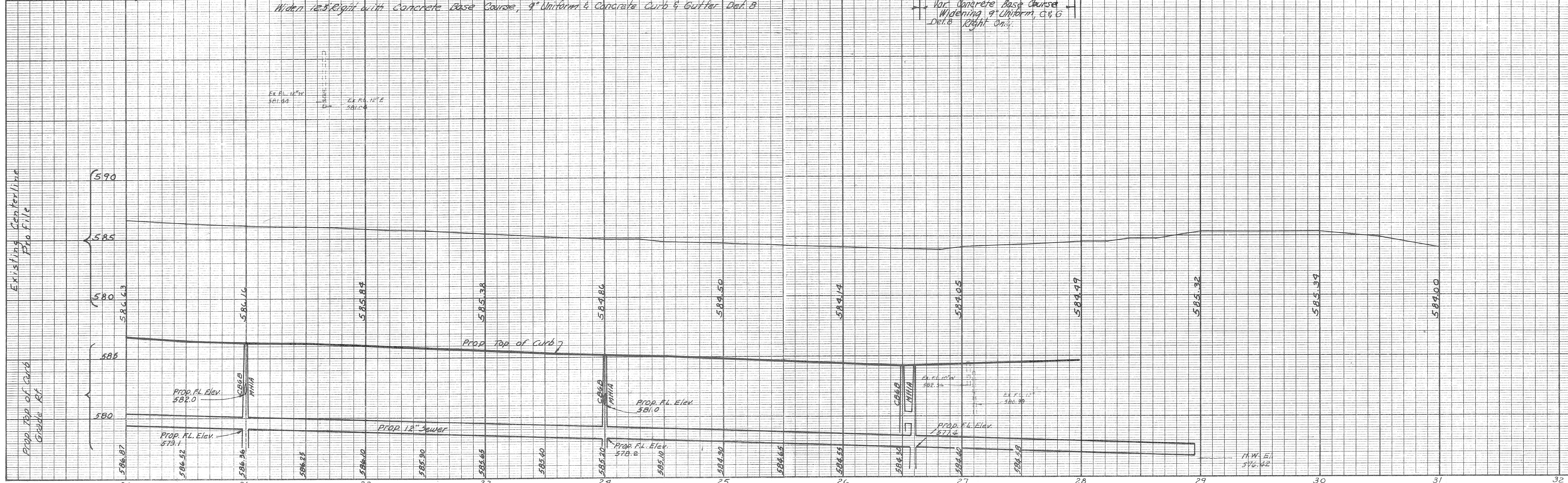
OPERATION	DATE	BY
SLAVE J	3-56	F. Habessel
PLAN PLOTTED	5-56	D.R. Eddy
PLAN CHECKED	5-56	T. B. Eddy
PROFILE CHECKED	6-56	T. B. Eddy
PRELIMINARY GRADE		
GRADE INSPECTION		
FEDERAL INSPECTION		



Cover Existing Surface & Widening on Rt. with Bit. Binder Cse. (est. @ 170*/Syd.) and Bit Concrete Wearing Course (est. @ 130*/Syd.)

Widen Right with Concrete Base Course, 9" Uniform & Concrete Curb & Gutter Det. B

Var. Concrete Base Course Widening 9" Uniform, C & G Det. B Right On.



B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	82-137		4	4

PI - Sta. 21+95.38
 $\Delta = 0^{\circ} 07' 50''$ Lt.
 S 89° W - Chis. X Base of Conc. Sign Post - 49.24'
 N 35° 30' E - Chis. X Steel Cor. Fe. Post - 65.86'
 S 18° E - N.E.C. in Tel. Pole - 97.00'
 - P.K. Nail -

Sta. 13+00 to Sta. 18+00 Rt.
 Sta. 18+30 to Sta. 29+00 Rt.
 (5) MH 1A (0'-10' depth)
 (5) CB GB (0'-10' depth)
 1460 cyds Porous Mat'l Grade A
 (1) Outlet Hdwl. Det 1

QUANTITY SHEET-D

SURFACING (SQ. YD.) - CURB AND GUTTER (LIN. FT.)

S.P.R. DIV. NO. 4	STATE MICH.	PROJ. NO.	FISCAL YEAR	SHEET NO. 5
ROUTE M-39	STATE PROJECT 08-137	COUNTY Wayne	CITY Warren	SHEET NO. 5

AS PER PLANS

AS CONSTRUCTED

STA. TO STA.	LENGTH	WIDTH	Removing Old Pav't Sqds.	Removing Sidewalk Sqds.	Removing Curb Lin. Ft.	Removing Asphalt Surf't-Sqds.	Chipping Pav't for Use-9 Unit Sqds.	Conc. Base Pavement Sqds.	Reinforced Concrete Curb Lin. Ft.	Bit. Band Def. 2' x 2' Lin. Ft.	Bit. Band Def. 2' x 2' Tons	Bit. Base 1 1/2" Unit Sq. Yd.	Conc. Pav't 7" Unit Sq. Yd.	Conc. Base 5 1/2" Unit Sq. Yd.	Conc. C. & Gutter Def't Lin. Ft.	Conc. C. & Gutter Def't Lin. Ft.	4" Conc. Side Walk Sq. Ft.	Conc. Curb Def't 2' x 2' Lin. Ft.	REMARKS	STA. TO STA.	LENGTH	WIDTH	EXPLANATION OF CHANGES		
9+43	9+46	3'					40																		
10+00	R.						50					14	11							Approach					
10+00	L.						50					10	8							"					
11+14	12+35R		283					1080												"					
12+80	L.						32					10	8							"					
13+40	R.																			"					
16+15	L.			20														30		Approach					
18+73	R. & L.						60					8	6							R.R. Crossing					
18+90	L.						32					11	8							Approach					
22+00	L.											14	11							Approach					
22+80	L.						67					11	8							"					
25+20	L.											11	8							"					
27+00	L.											11	8							"					
28+50	R.																			"					
28+42	L.																	30		Approach					
28+42	R.											11	8							"					
28+83	28+86	3'					60													"					
10+30	18+56L																	839							
19+20	19+9L																								
10+20	20+00R																								
20+00	27+95R																								
28+47	R.		37					370						37											
9+43	10+20	77'	Var.									66	375	28.7											
10+20	18+66.31	846.31'	66.0					1128.5	1128.5			931	527.6	403.4											
18+66.31	18+80.23	13.86'																							
18+80.23	25+76	695.77'	66.0					927.7	927.7			765	433.7	331.7											
25+76	28+05	229.0'	Var.					177.8	177.8			267	151.1	115.6											
28+05	28+86	81.0'	54.0									73	41.3	31.6											
TOTALS			320	27	125	67	668	2234	2379	75	2102	1291	987	108	37	1761	839	60	16						

MANHOLES, CATCH BASINS, INLETS (EACH) - SEWER (LIN. FT.)

AS PER PLANS												AS CONSTRUCTED												AS PER PLANS		AS CONSTRUCTED		REMARKS
STA. TO STA.	M.A.	C.B.	Basins	Inlets	Adjust	M.A.	C.B.	Basins	Inlets	Adjust	Remarks	STA. TO STA.	M.A.	C.B.	Basins	Inlets	Adjust	Remarks	STATION	DETAIL NO.	STATION	DETAIL NO.						
9+75 L.																												
9+97 R.																												
10+25 L.																												
10+30 L.																												
10+34 R.																												
12+55 L.																												
13+08 L.																												
16+40 L.																												
21+65 L.																												
27+12 R.																												
Ent. Project	5	5				14				2	1460	1581	30	0.8	35													
TOTALS			5	5	2	1	17	5	2	1460	1581	30	1	35														

AS PER PLANS		AS CONSTRUCTED	
MONUMENT BOXES =	EACH	MONUMENT BOXES =	EACH
*CLASS SEEDING =	ACRES		
*To be done by Maintenance Division			
Removing Trees 13"-24" Dia	1 each		
Elim 7-8" Spray Applied	1000		
Fine Grading & Cleanup	19 Sta.		
Earth Excavation	1245 Cu. Yds.		
Maintaining Traffic	0.368 M.		
Selected Subbase 23A	530 Tons		
Calcium Chloride - Admixed	1.26 Tons		
Water (1000 gal. Units)	1 Unit		

Note: To take the shown to nearest 1/2" except as shown.