

ROUTE	STATE PROJECT	FEDERAL NO.	SHEET NO.	TOTAL SHEETS
	82195	I-75-1(107)43	1	

45,300-M-60

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

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ROADWAYS AND MISCELLANEOUS

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- 3- 4 CONSTRUCTION SEQUENCE
- 5-12 TYPICAL CROSS-SECTIONS
- 13 NOTES AND SPECIAL PROVISIONS
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- 52-53 BEAUBIEN SEWER RELOCATION
- 54 SPECIAL DETAILS

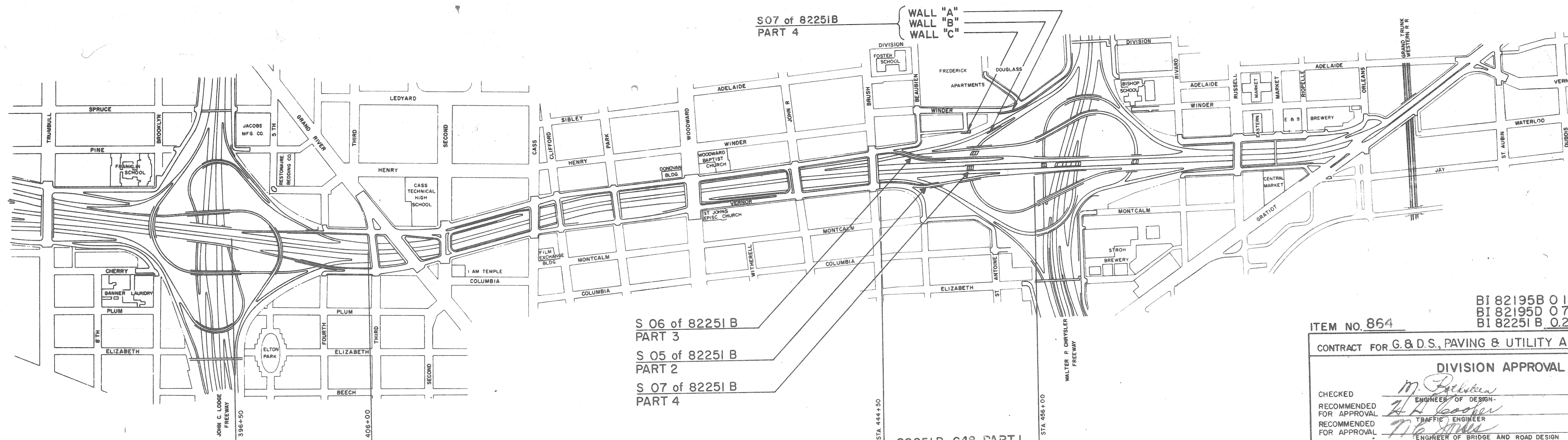
ALTERATIONS TO WATER MAINS

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- 57 ALTERATIONS IN SOUTH SERVICE DRIVE
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STATE OF MICHIGAN
DEPARTMENT OF STATE HIGHWAYS

PLANS OF PROPOSED
MICHIGAN PROJECT I-75-1(107)43
STATE PROJECT BI 82195 B C23
BI 82195 D C24
BI 82251 B C48 Parts 1, 2, 3 & 4
FISHER FREEWAY

WAYNE COUNTY
CITY OF DETROIT



S 06 of 82251 B PART 3
S 05 of 82251 B PART 2
S 07 of 82251 B PART 4

82195 B C23 MICHIGAN PROJECT I-75-1(107)43 CONTROL SECTION BI 82195 B
82195 D C24 MICHIGAN PROJECT I-75-1(107)43 CONTROL SECTION BI 82195 D
82251 B C48 PART I MICHIGAN PROJECT I-75-1(107)43 CONTROL SECTION BI 82251 B

BI 82195 B 0.180 MILES
BI 82195 D 0.729 MILES
BI 82251 B 0.218 MILES

ITEM NO. 864

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

DIVISION APPROVAL		
CHECKED	<i>M. Palka</i>	2-23-66
RECOMMENDED FOR APPROVAL	<i>Z. H. Cooper</i>	2-23-66
RECOMMENDED FOR APPROVAL	<i>T. J. Jones</i>	2-23-66

OFFICES OF DESIGN AND CONSTRUCTION		
APPROVED	<i>Chas. J. ...</i>	2-23-66
APPROVED	<i>...</i>	2-23-66

DEPARTMENT OF STATE HIGHWAYS APPROVAL		
APPROVED BY	<i>J. E. Meyer</i>	2-23-66

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

APPROVED *Robert A. ...*
HEAD ENGINEER OF EXPRESSWAYS

APPROVED *...*
ASSOCIATE CITY ENGINEER-HIGHWAYS AND EXPRESSWAYS

APPROVED *...*
CITY ENGINEER

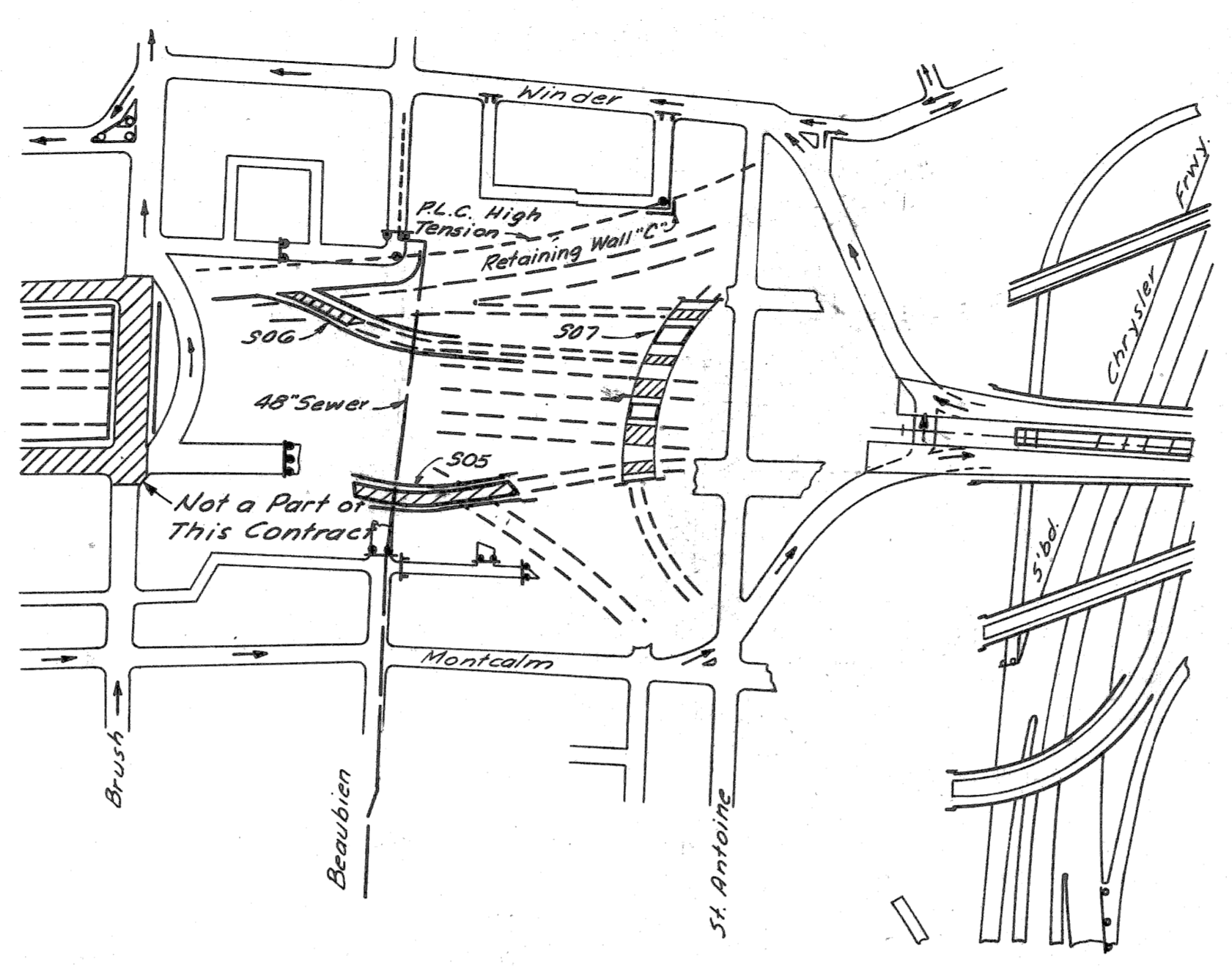
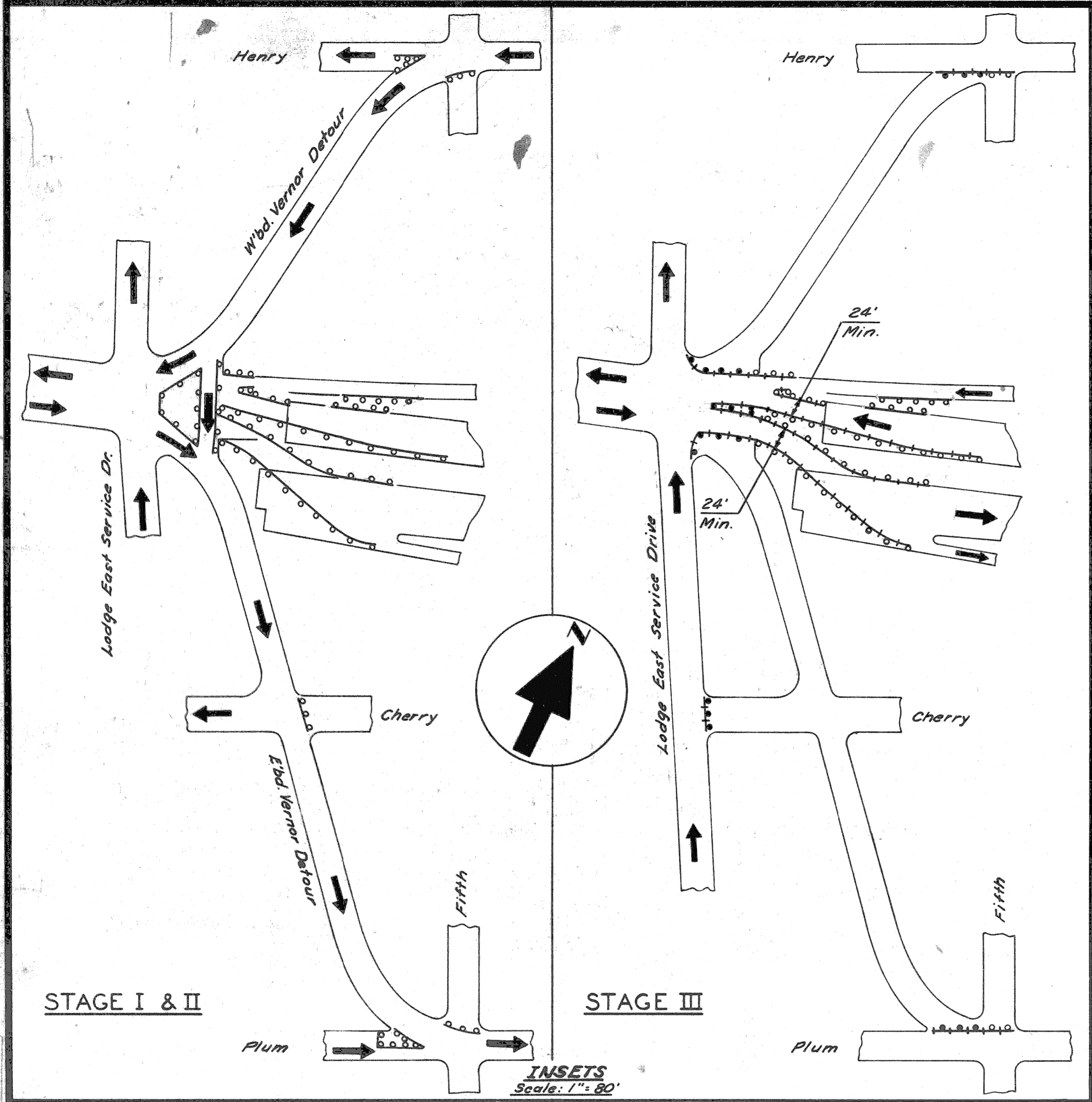
APPROVED *...*
COMMISSIONER OF PUBLIC WORKS AND EXPRESSWAY COORDINATOR

DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS		
APPROVED	<i>...</i>	DATE

PROJECT NO.	FEDERAL PROJECT	SHEET NO.
82195 B C23	I-75 1(107)43	1

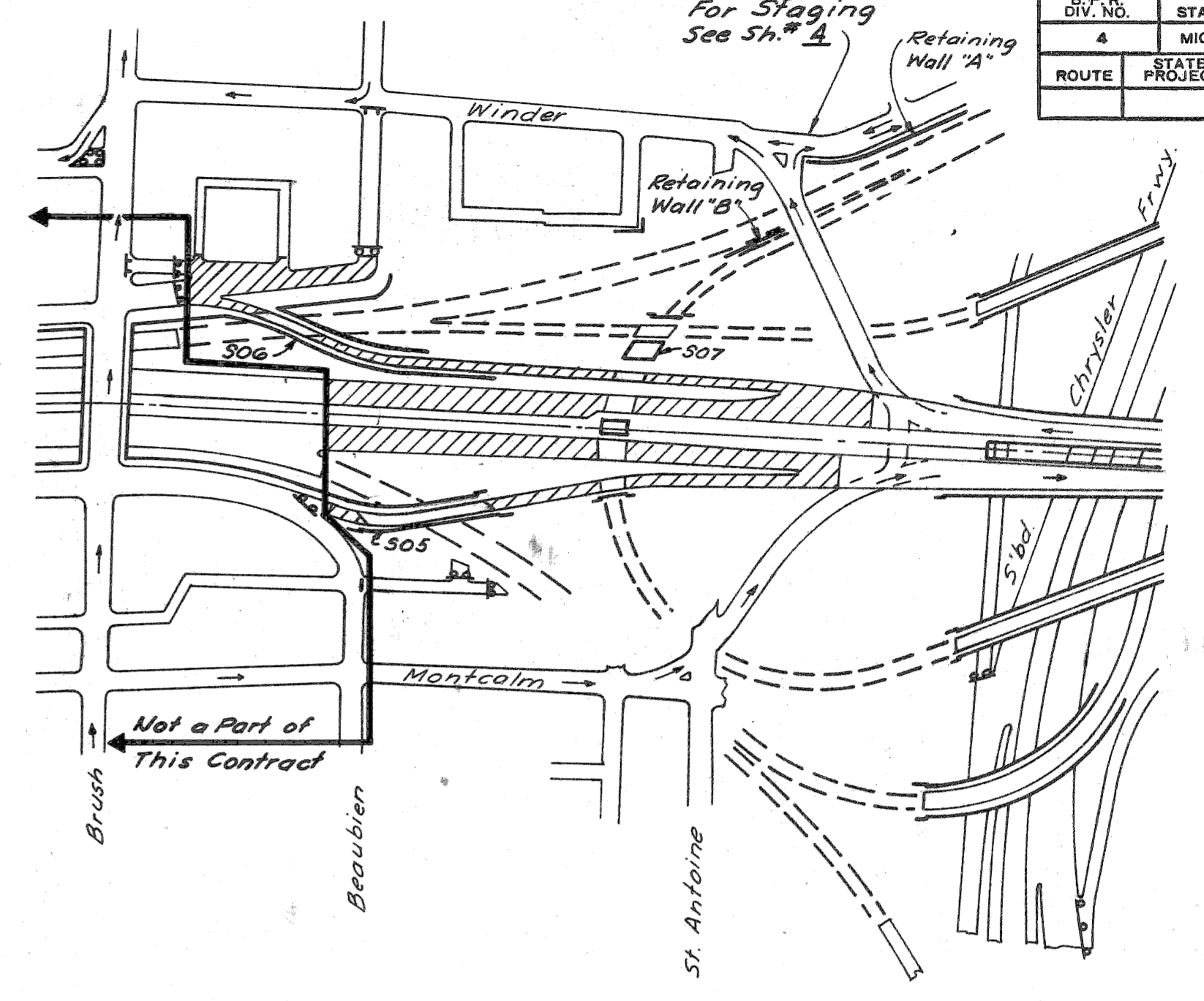
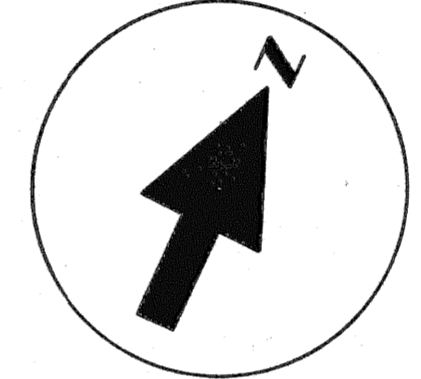
PROJECT NO. 82195 B C23, 82195 D C24, 82251 B C48

S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	82195	1-75-1(10)43	3	3
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	Wayne	Wayne	Detroit	3	3
S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	82195	1-75-1(10)43	3	3
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	Wayne	Wayne	Detroit	3	3



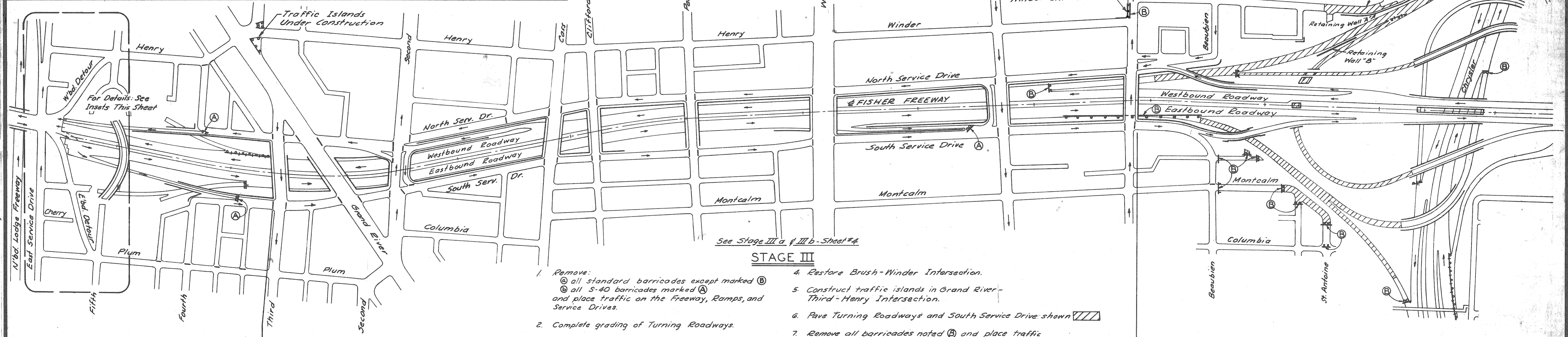
See Stage I - Sheet #4
STAGE I

1. Begin grading west of St. Antoine St.
2. Construct Beaubien St. Sewer
3. Begin construction of Bridges 505, 506, & 507
4. Construct Retaining Wall "C"
5. Complete the relocation of the St. Antoine P.L.C. High Tension Line.



See Stage II - Sheet #4
STAGE II

1. Excavate St. Antoine St. plug, and grade east and west of Vernor Hwy. Detours.
2. Partially construct Retaining Walls "A" & "B"
3. Complete construction of Bridges 505, 506, & 507 including attached walls.
4. Pave Freeway, Brush St. Ramps and North Service Drive shown with hatched pattern.



See Stage III a & III b - Sheet #4
STAGE III

1. Remove:
 - ⓐ all standard barricades except marked ⓑ
 - ⓐ all S-40 barricades marked ⓐ and place traffic on the Freeway, Ramps, and Service Drives.
2. Complete grading of Turning Roadways.
3. Complete construction of Retaining Walls "A" & "B" and pave West Service Drive shown with hatched pattern.
4. Restore Brush-Winder Intersection.
5. Construct traffic islands in Grand River-Third-Henry Intersection.
6. Pave Turning Roadways and South Service Drive shown with hatched pattern.
7. Remove all barricades noted ⓐ and place traffic on the Turning Roadways.

Scale 1"=200'

PREPARED BY: G.D. WILE, C.E. HOPKINS, F.A. CALHOUN, B.V. TEMPORELLI, D.L. E. PAGE
 DATE: 12-65, 12-65, 12-65, 12-65
 PROJECT: BRUSH ST. RAMP, WEST SERVICE DRIVE, AND FISHER FREEWAY
 DRAWING NO.: 82195 B C 23

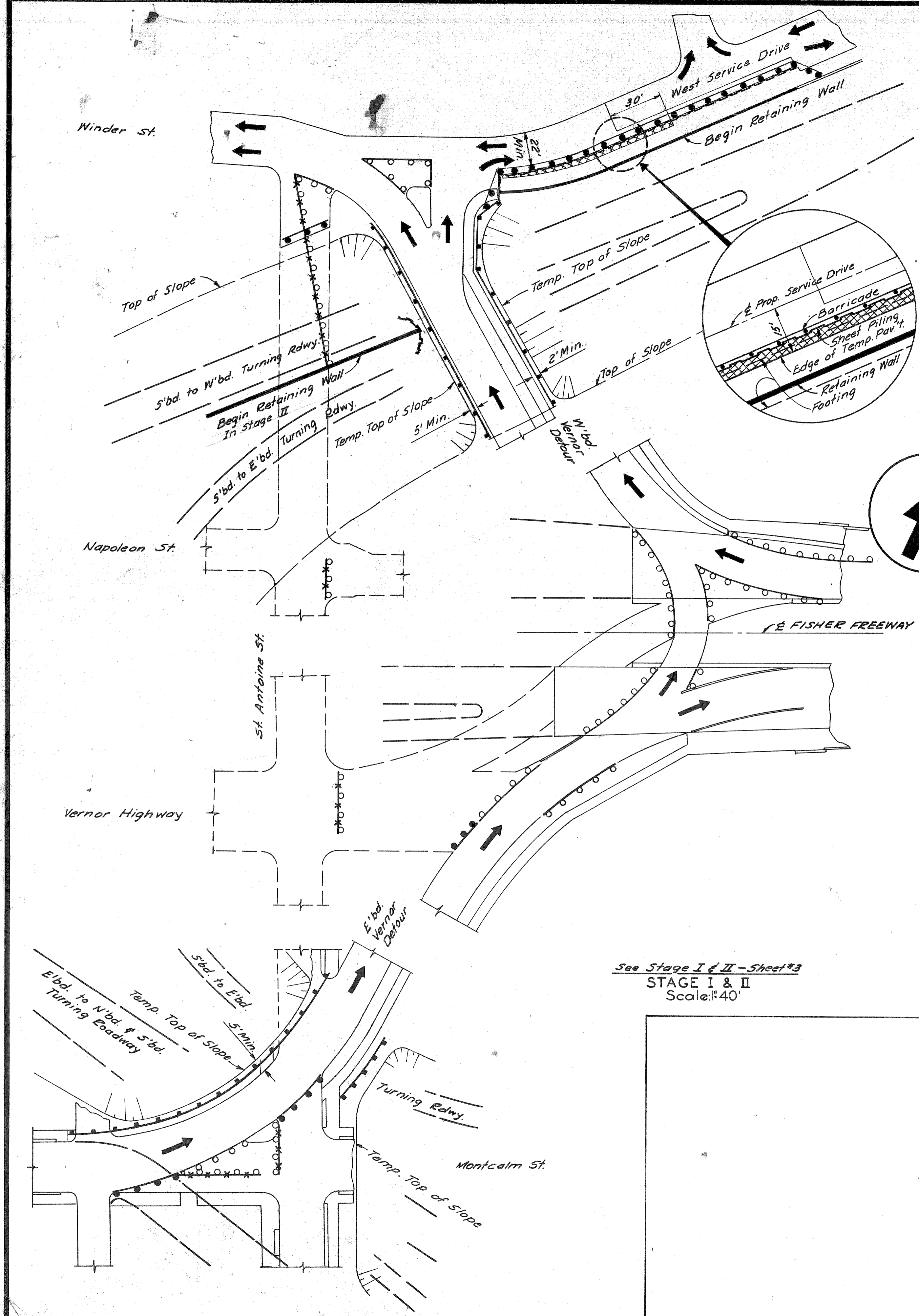
For Barricade Lights, See P.L.C. Dwg's.
Work This Sheet with Sh.#4

CONSTRUCTION SEQUENCE

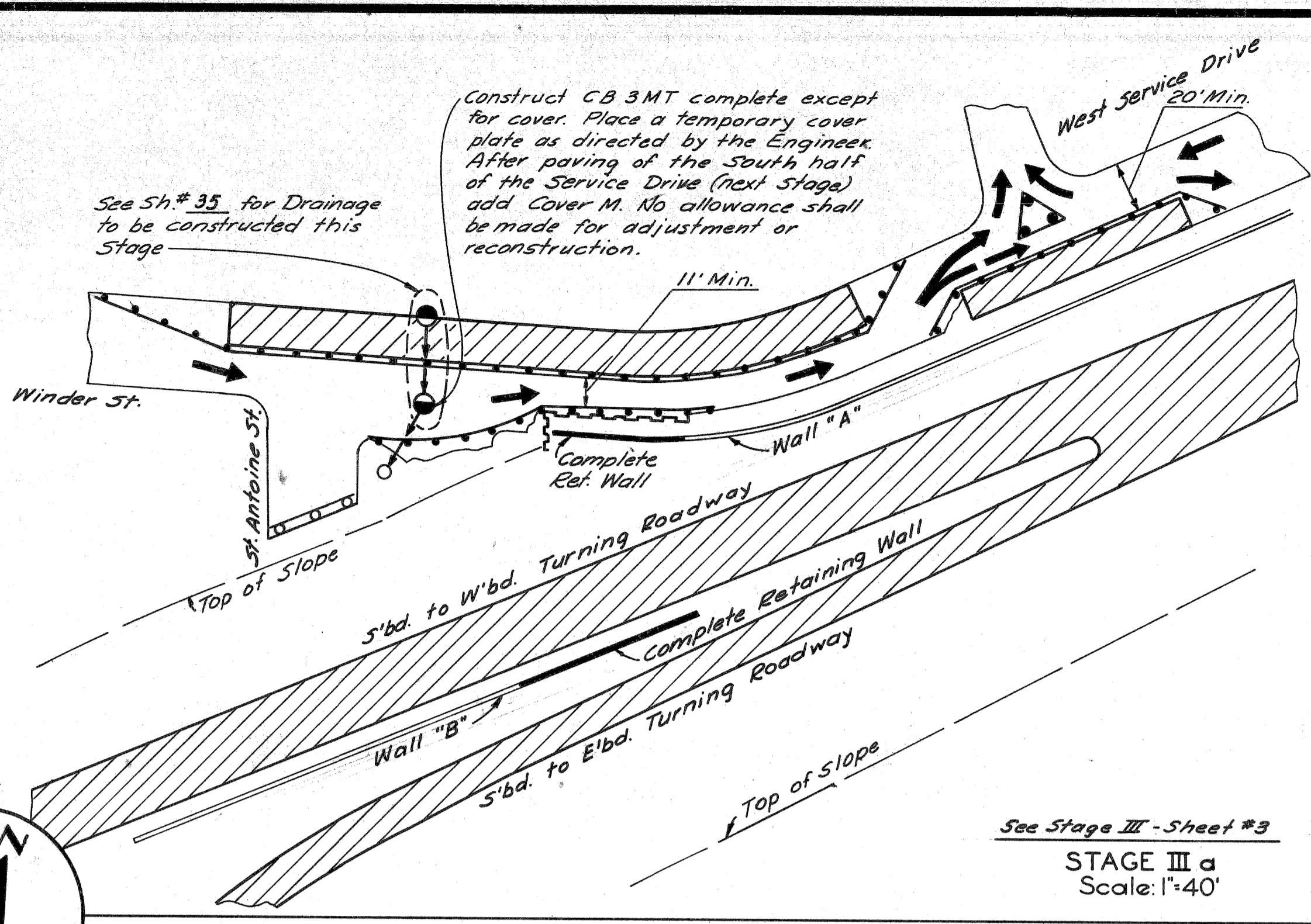
D.P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	175-110743			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	Wayne	Dearborn		4	

LEGEND

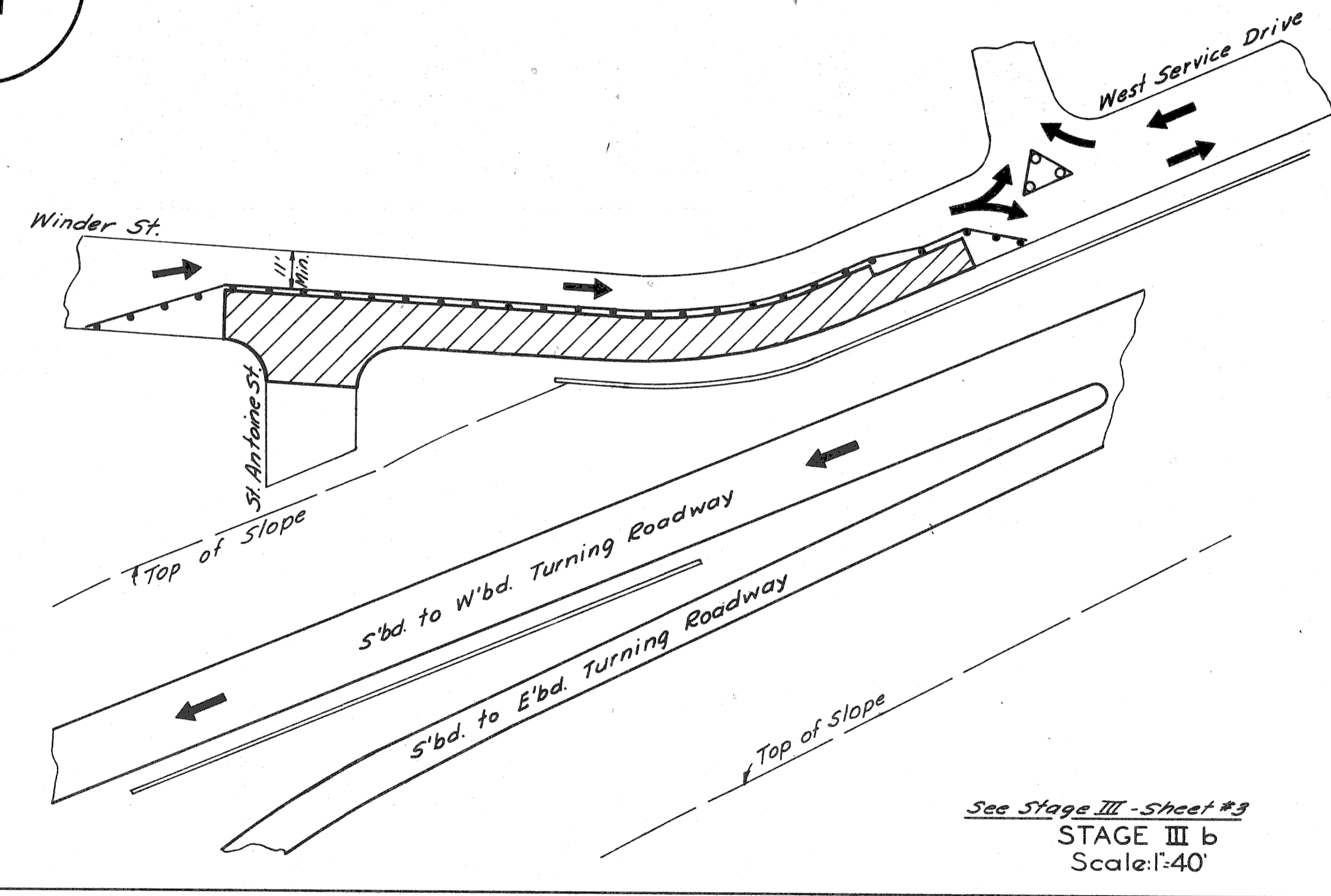
- Proposed Pavement
- 8" Uniform Conc. Pav't. Non-Reinf.
- Roadway Graded, Not Paved
- Temporary Steel Beam Guard Rail
- Steel Sheet Piling
- Existing Standard Barricade
- Proposed Standard Barricade
- Proposed S-40 Barricade
- Existing S-40 Barricade
- Existing S-40 Barricade (To be relocated at beginning of Contract)
- S-40 Barricade (To remain at end of Contract)



See Stage I & II - Sheet #3
STAGE I & II
 Scale: 1"=40'



See Stage III - Sheet #3
STAGE III a
 Scale: 1"=40'



See Stage III - Sheet #3
STAGE III b
 Scale: 1"=40'

QUANTITIES

	Control Section		
	82195 B	82195 D	82251 B
S-40 BARRICADE	Lin. Ft.	Lin. Ft.	Lin. Ft.
Furnish & Install	0	0	287.5
Relocate	637.5	137.5	1725.0
Remove	0	487.5	1325.0
BARRICADE	Each	Each	Each
Furnish & Install	0	1	3
Relocate	0	0	4
Remove	8	39	4
TEMPORARY STEEL BEAM GUARD RAIL	Lin. Ft.	Lin. Ft.	Lin. Ft.
Furnish & Install	0	0	562.5
TIMBER CUBES & SNOW FENCE	Lin. Ft.	Lin. Ft.	Lin. Ft.
Furnish & Install	0	0	100.0
Relocate	0	0	100.0
Remove	0	0	100.0

For Barricade Lights, See P.L.C. Dwg.
 Work This Sheet with Sh# 3

CONSTRUCTION SEQUENCE

FILE NO. 82195 B C 23	STATE PROJECT 82195	FEDERAL PROJECT 175-110743	SHEET NO. 4
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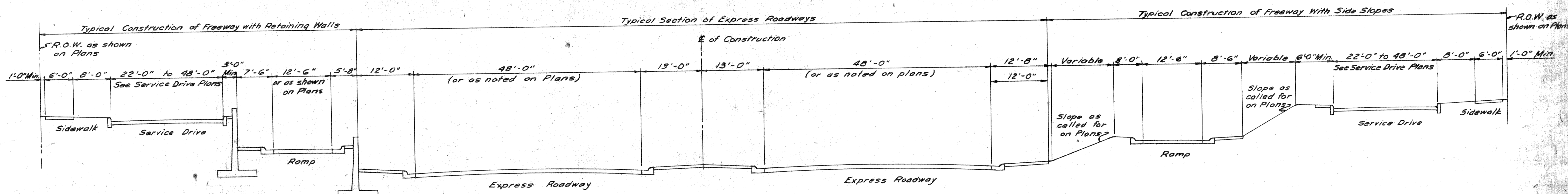
PLANS PREPARED BY
 CITY OF DEARBORN
 DIVISION OF PUBLIC WORKS
 CITY ENGINEER'S OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

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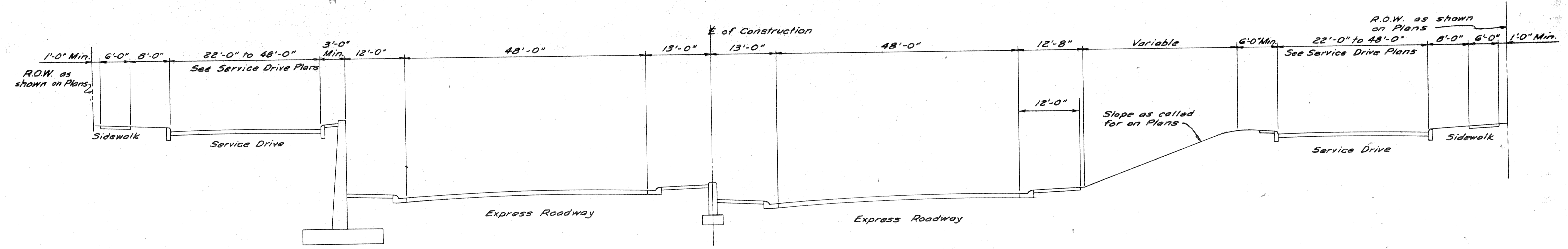
TYPICAL CROSS-SECTIONS

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-75-1107143			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	Wayne	Detroit		5	

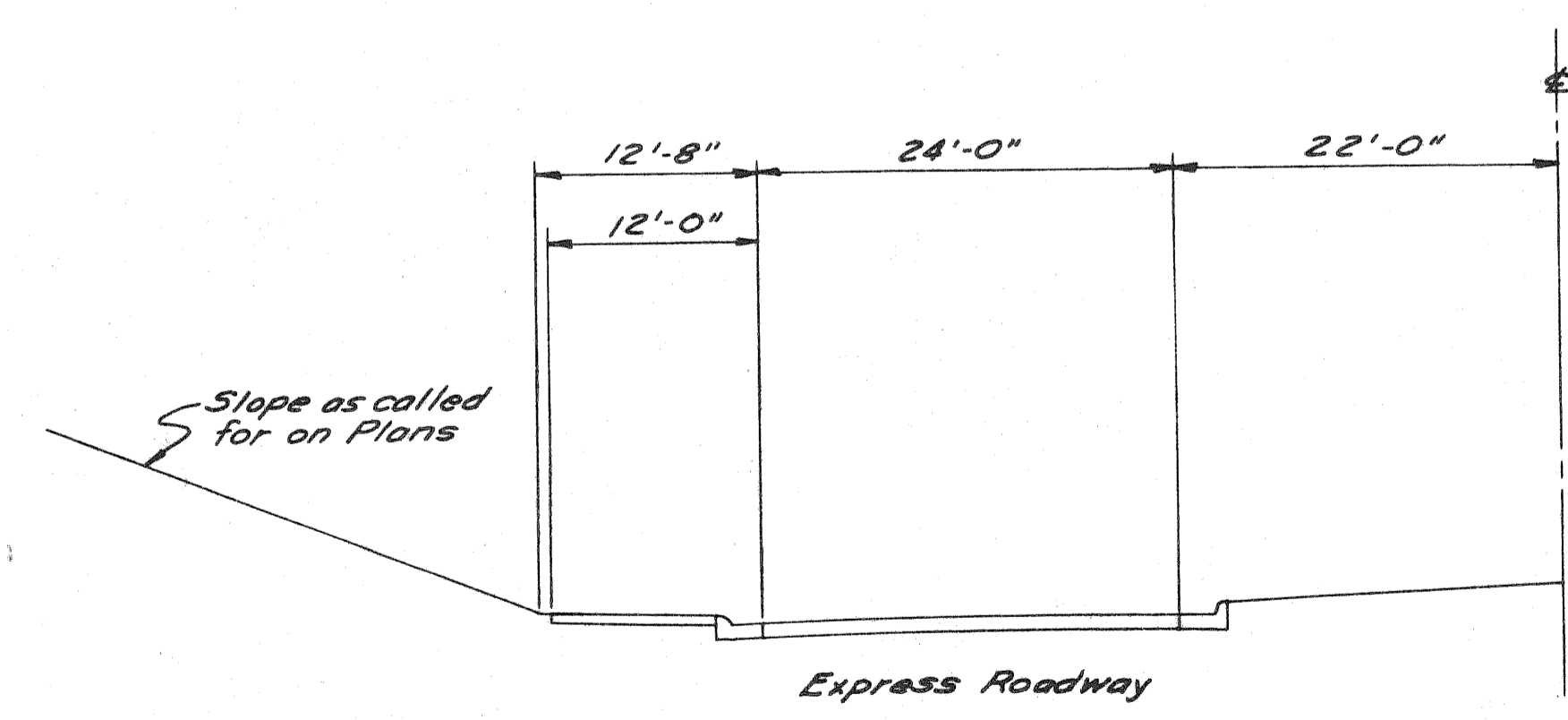
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



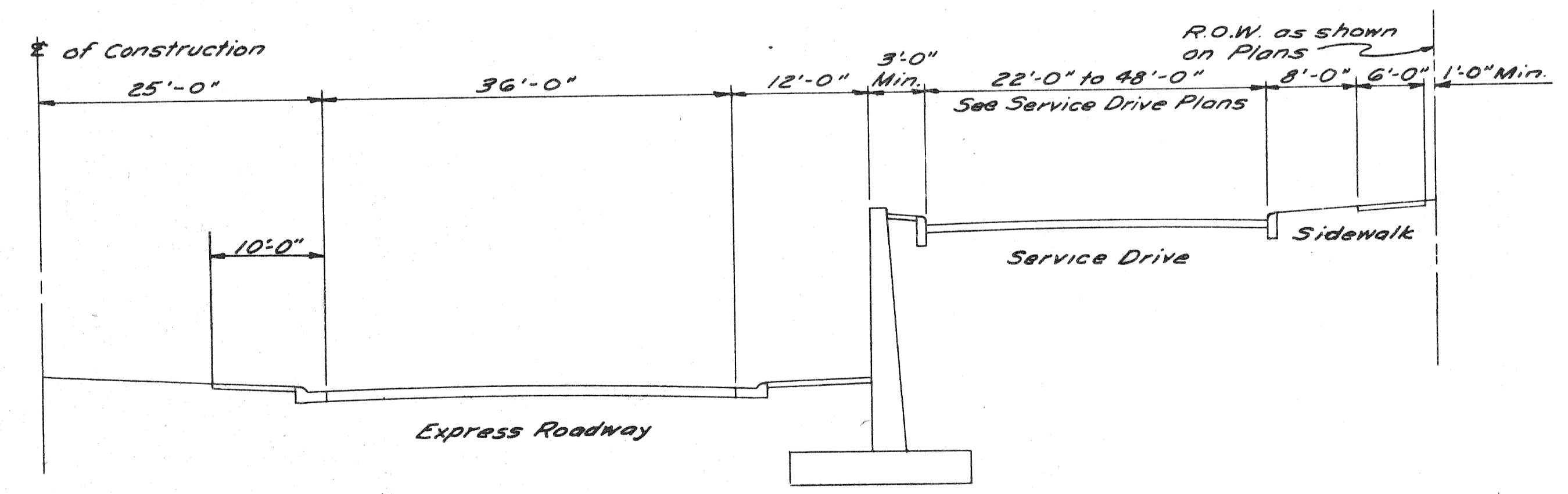
GENERAL TYPICAL CROSS-SECTION
SCALE 1"=10'



SPECIAL CROSS-SECTION WITH RETAINING WALL AT MEDIAN
SCALE 1"=10'



SPECIAL HALF SECTION OF 24' PAVEMENT WITH WIDENED MEDIAN



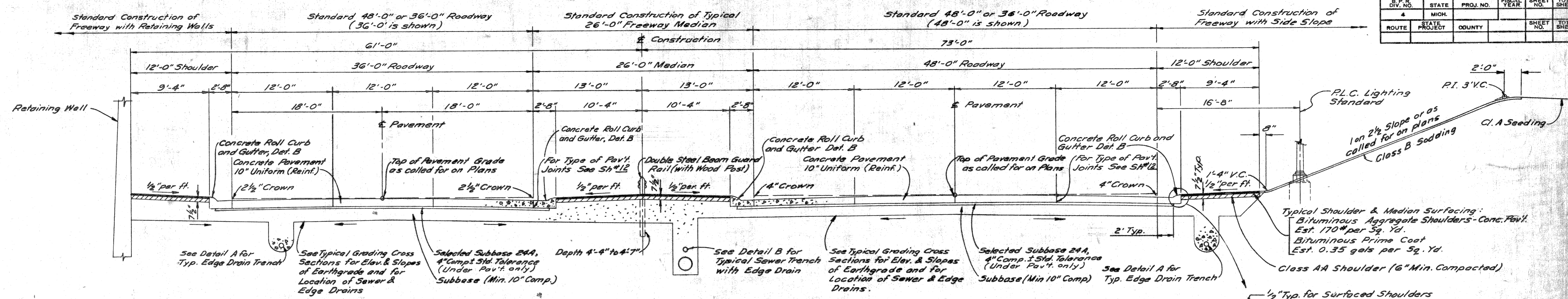
SPECIAL HALF SECTION OF 36' PAVEMENT WITH WIDENED MEDIAN

GENERAL CROSS-SECTIONS

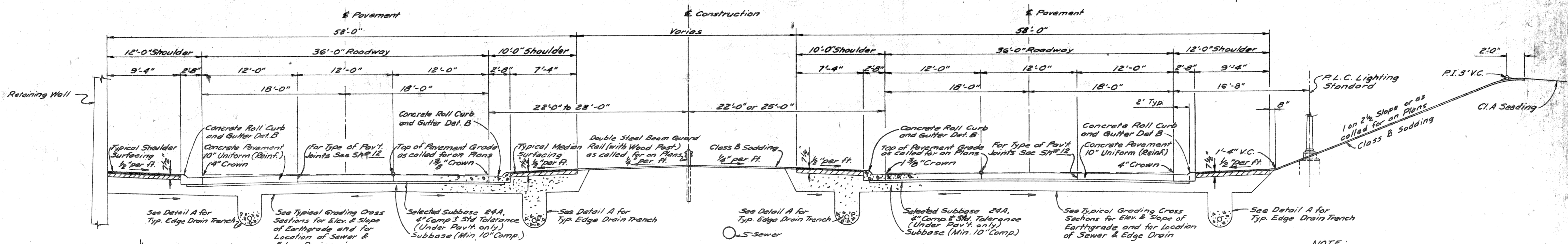
PLANS PREPARED BY
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 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

TYPICAL CROSS-SECTIONS

S.P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	WAYNE	DETROIT		6	

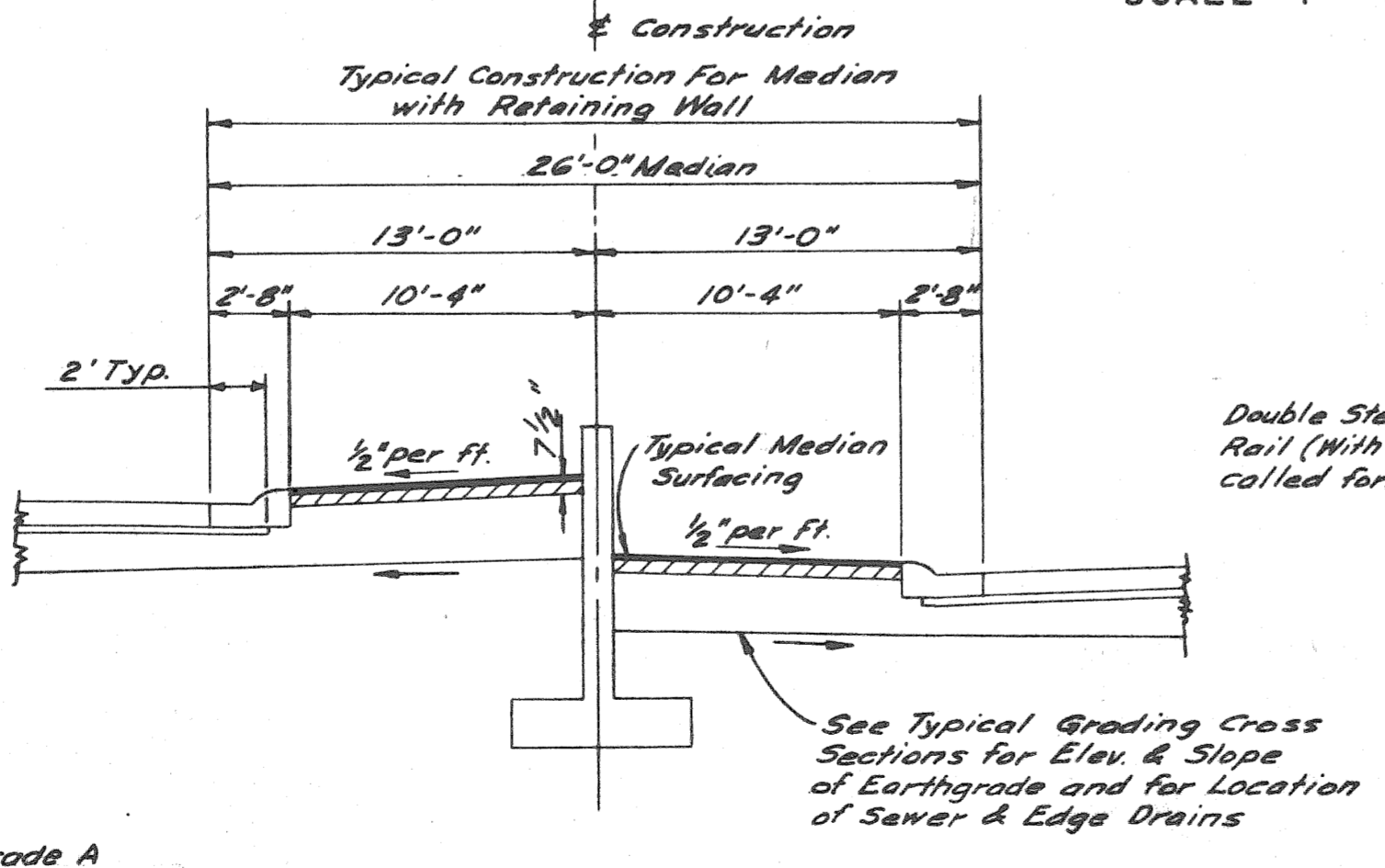
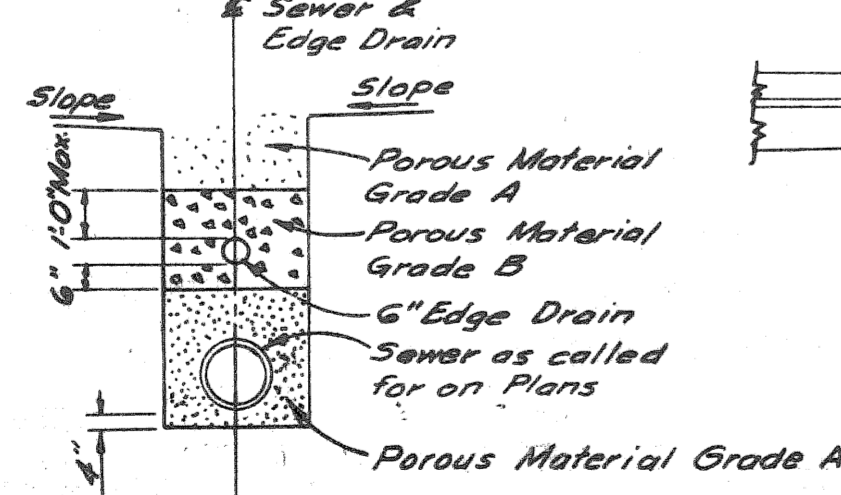
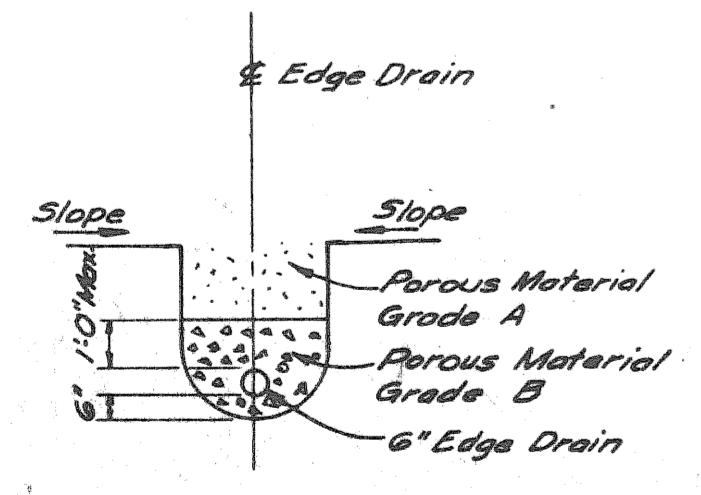
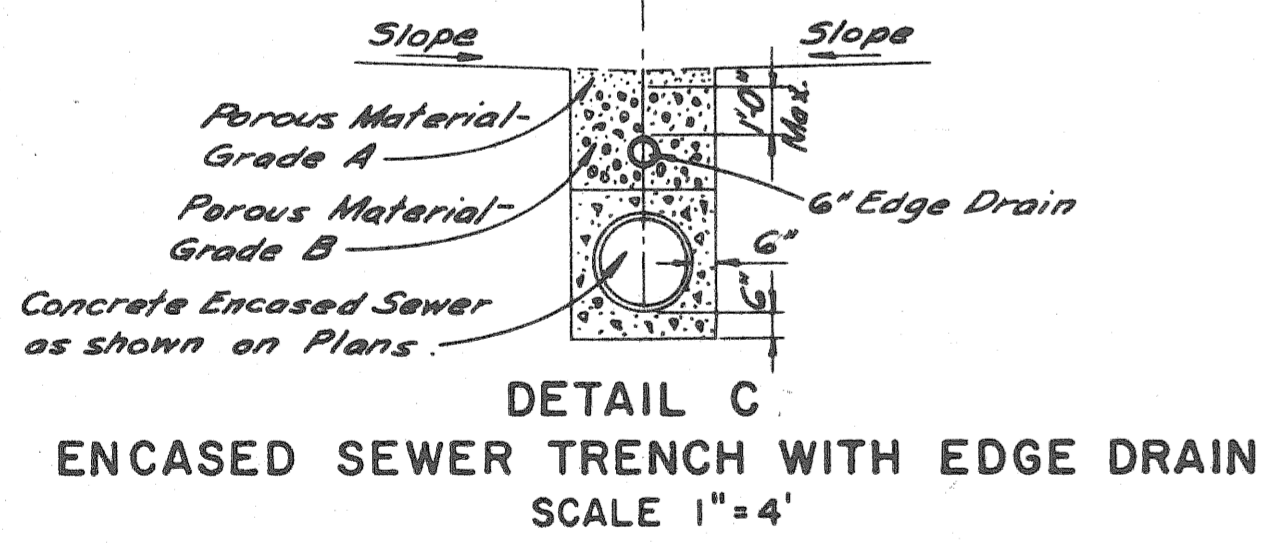


TYPICAL CROSS SECTION OF FREEWAY
SCALE 1" = 6"

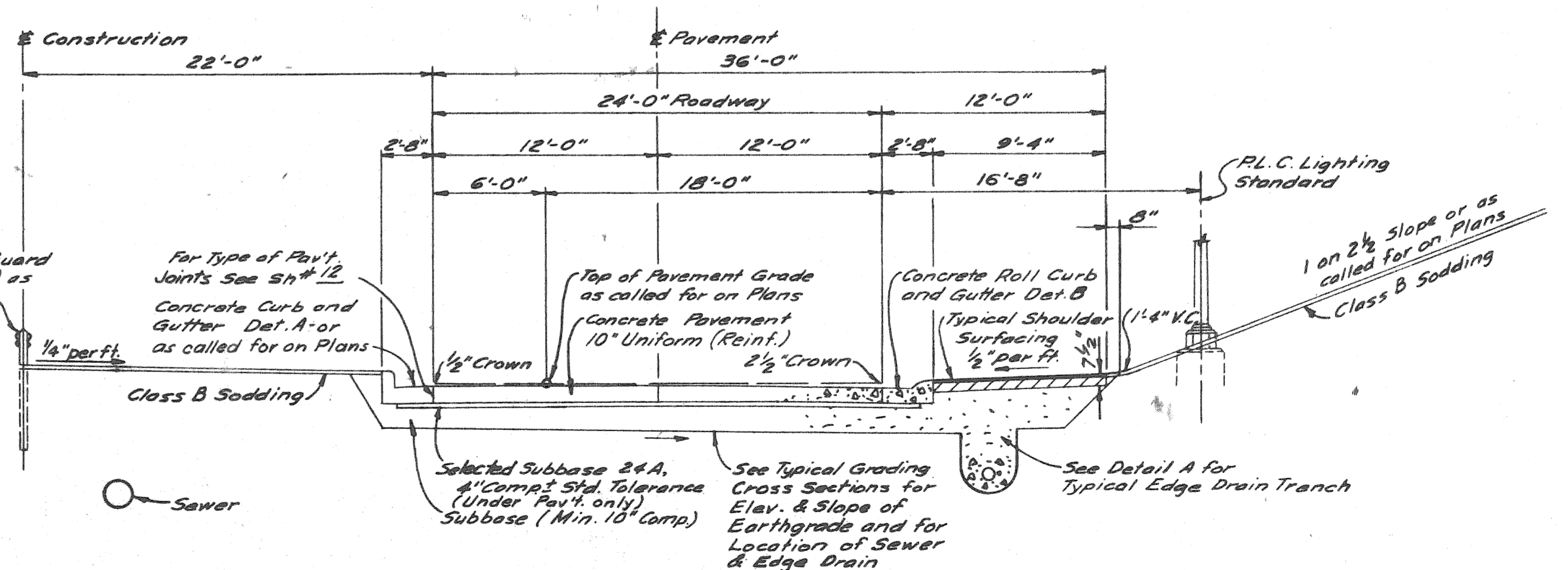


TYPICAL CROSS SECTION OF FREEWAY WITH 36' ROADWAY AND WIDENED MEDIAN
SCALE 1" = 6"

NOTE:
Class A Slopes are required on this Project according to Section 2.13.03(b) of the M.S.H.D. Standard Specifications.



TYPICAL CROSS SECTION AT MEDIAN WITH RETAINING WALL
SCALE 1" = 6"



TYPICAL HALF SECTION OF FREEWAY WITH 24' ROADWAY AND WIDENED MEDIAN
SCALE 1" = 6"

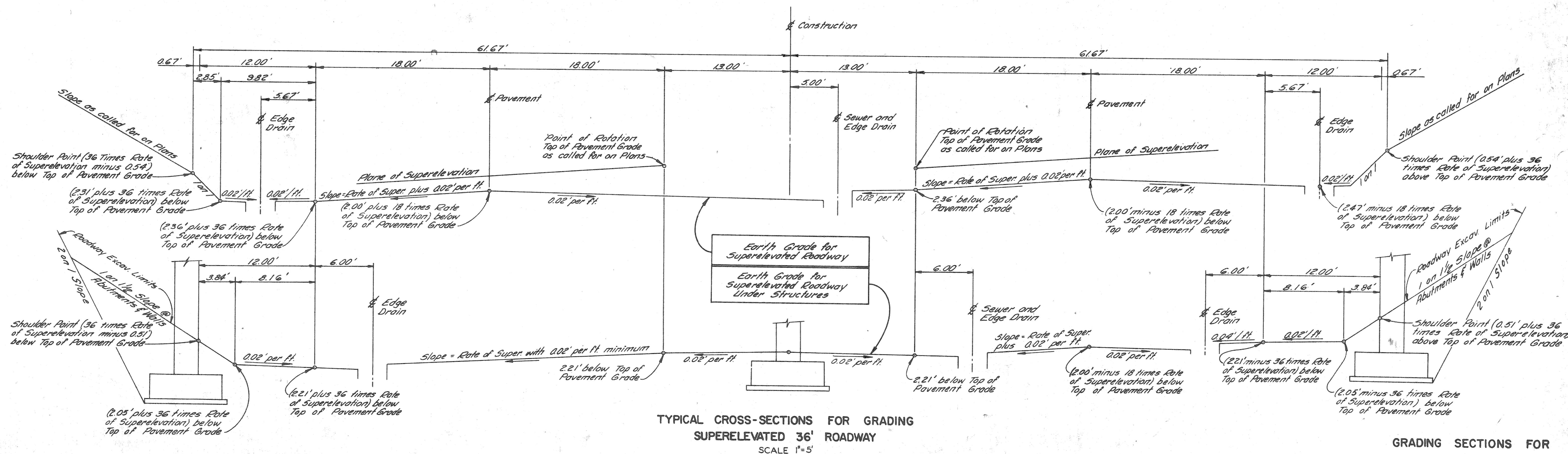
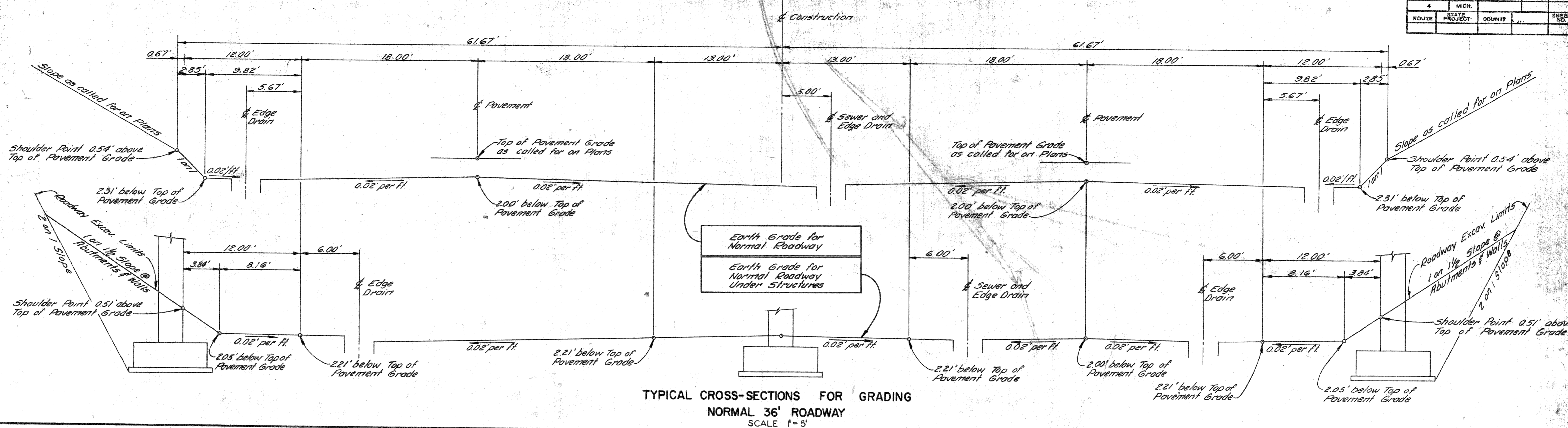
SECTIONS OF FINISHED ROADWAYS

PLANS PREPARED BY
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 BUREAU OF HIGHWAYS

TYPICAL CROSS-SECTIONS

S.P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	12-11(07)43		7	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	WAYNE	DETROIT		7	

S.P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS



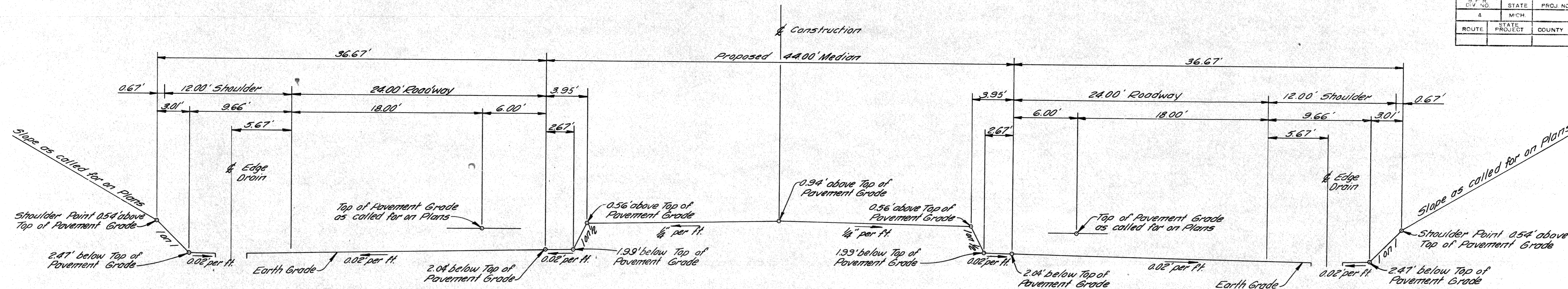
GRADING SECTIONS FOR
36' ROADWAY

FILE NO. NO. 310 STENCIL	82195B C23	STATE PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
		82195	12-11(07)43	7	

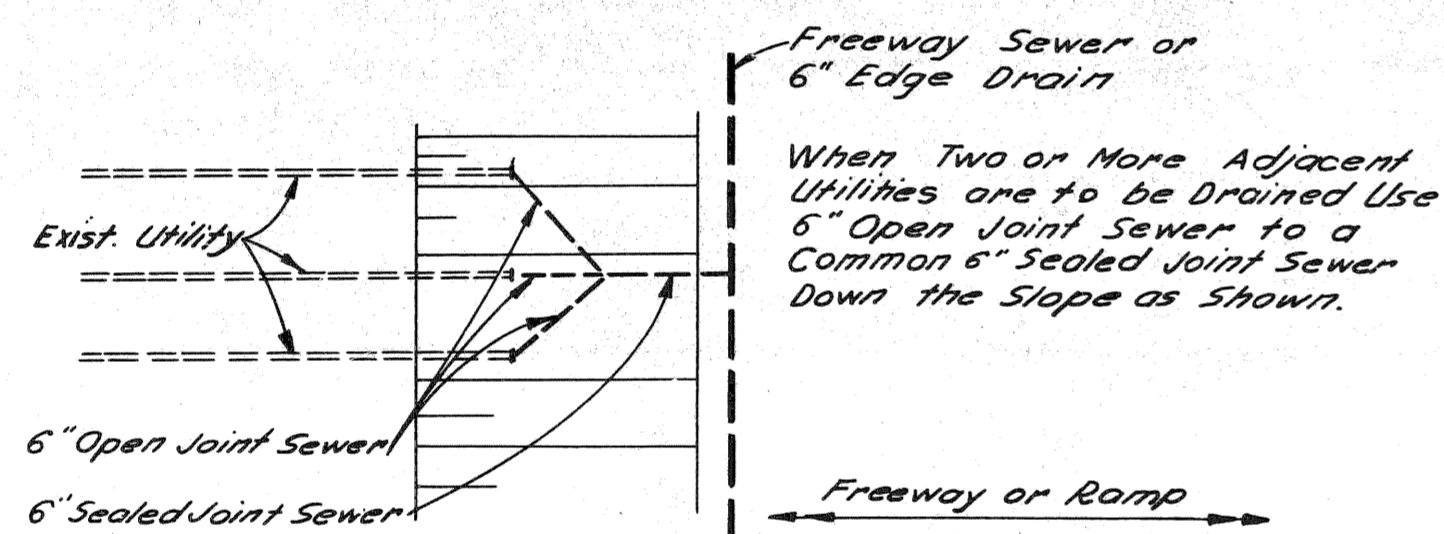
PLANS PREPARED BY
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 CITY ENGINEERING OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

TYPICAL CROSS-SECTIONS

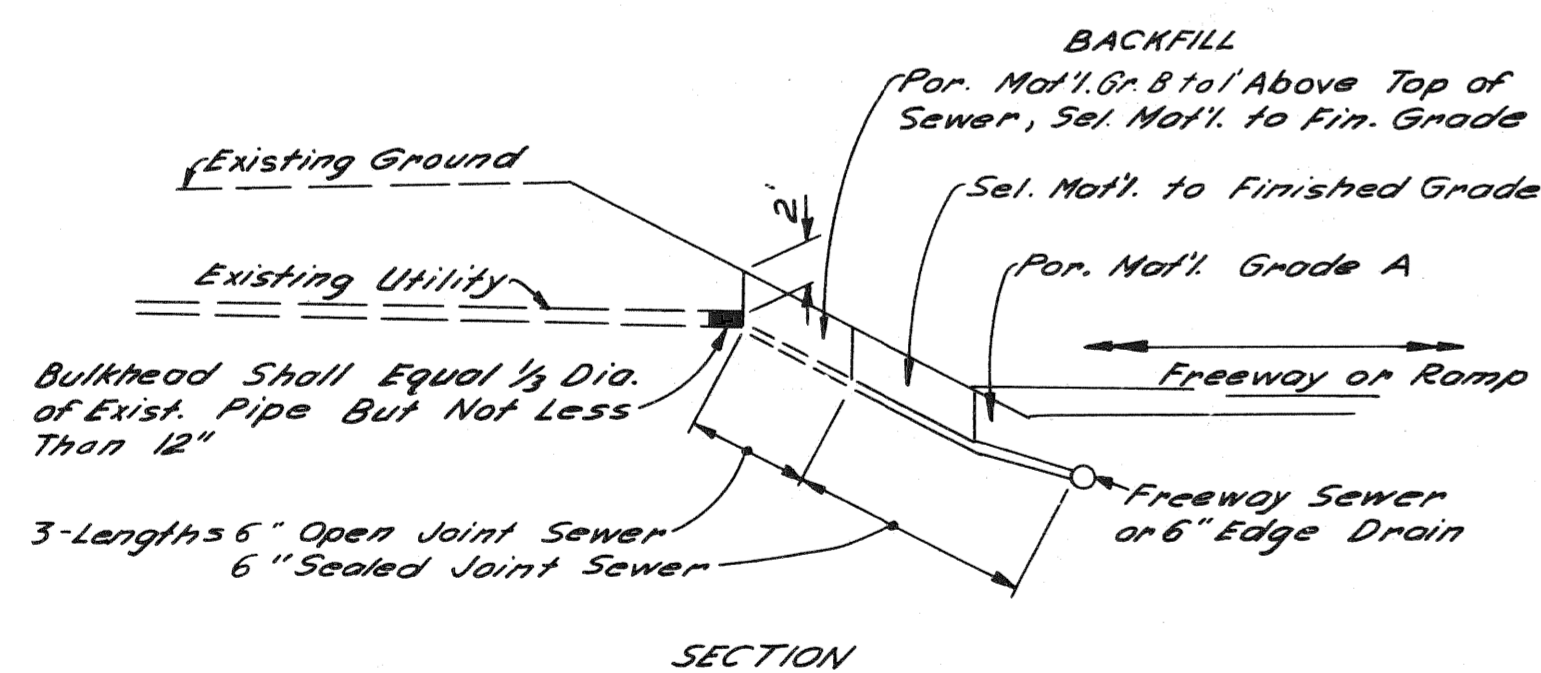
S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	725-1(107)43			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	WAYNE	DETROIT		8	
S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS



TYPICAL CROSS-SECTION FOR GRADING 24' ROADWAY
WITH WIDENED MEDIAN
SCALE 1" = 5'

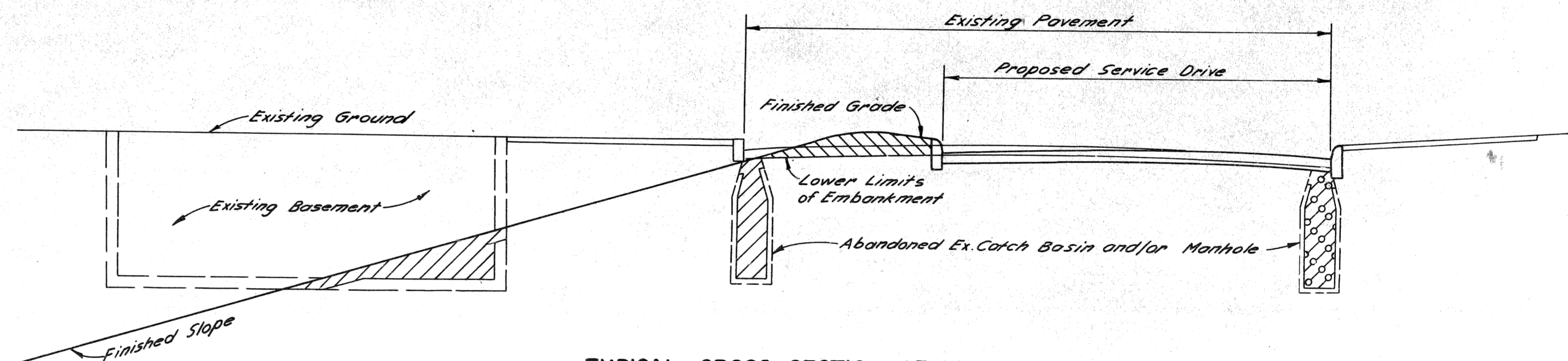


PLAN



SECTION

6" WEEPER DRAINS

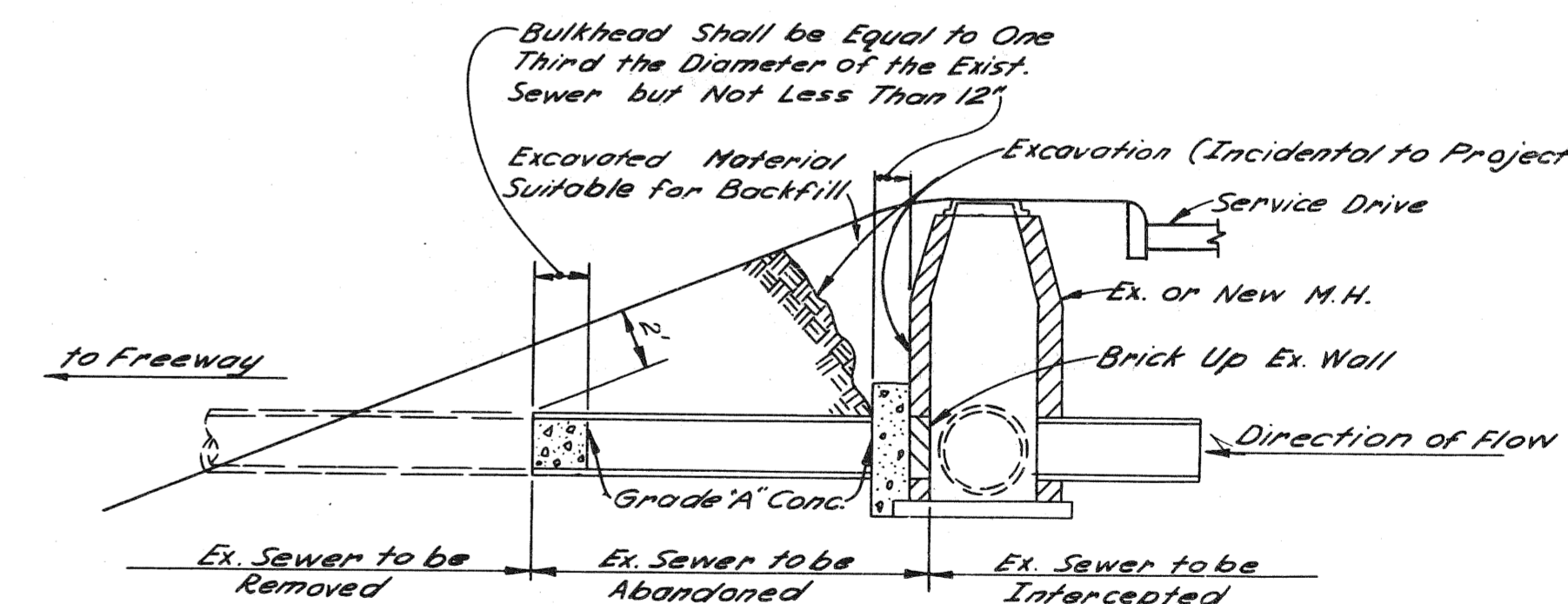


TYPICAL CROSS-SECTION OF EMBANKMENT & BACKFILL

EARTHWORK LEGEND

- EMBANKMENT
- BACKFILL
 - Sand Gravel Material
 - Select Clay Backfill

Embankments Shall Consist of All Earthwork Required Above the Existing Ground Line or Above the Ground Line After the Removal of the Top Soil, Pavements, Curbs, Sidewalks, & Concrete Floor Slabs.



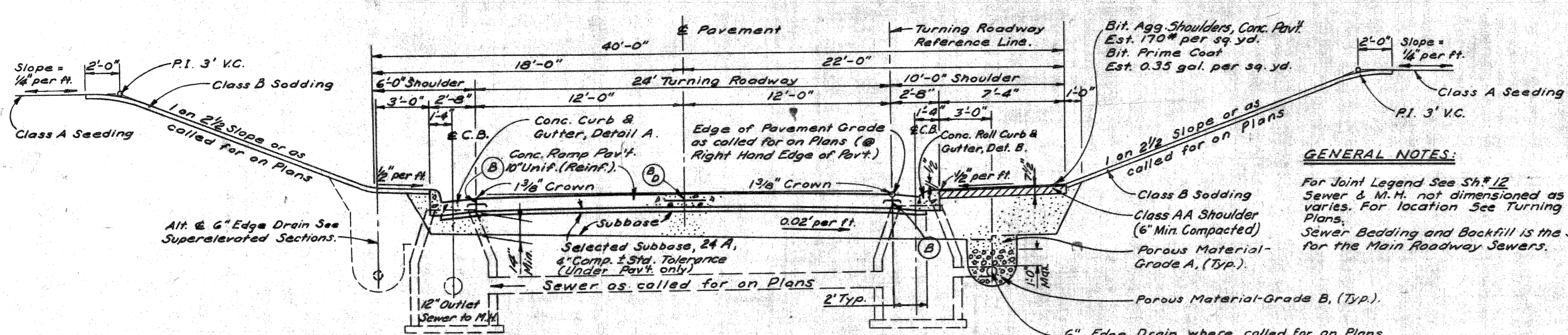
SKETCH SHOWING METHOD FOR BULKHEADING SEVERED SEWERS

GRADING SECTION FOR 24' ROADWAY
WITH WIDENED MEDIAN
AND SPECIAL DETAILS

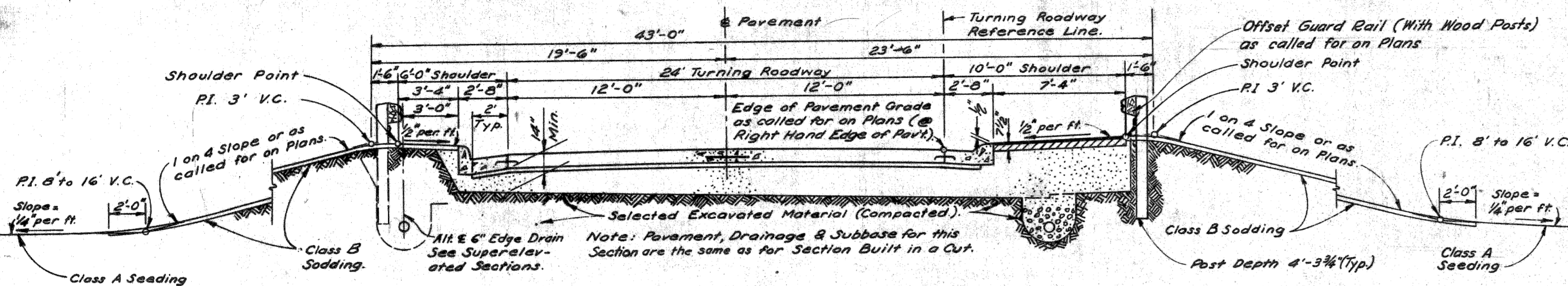
PLANS PREPARED BY
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
 BUREAU OF PLANS AND EXPRESSWAYS

TYPICAL CROSS-SECTIONS

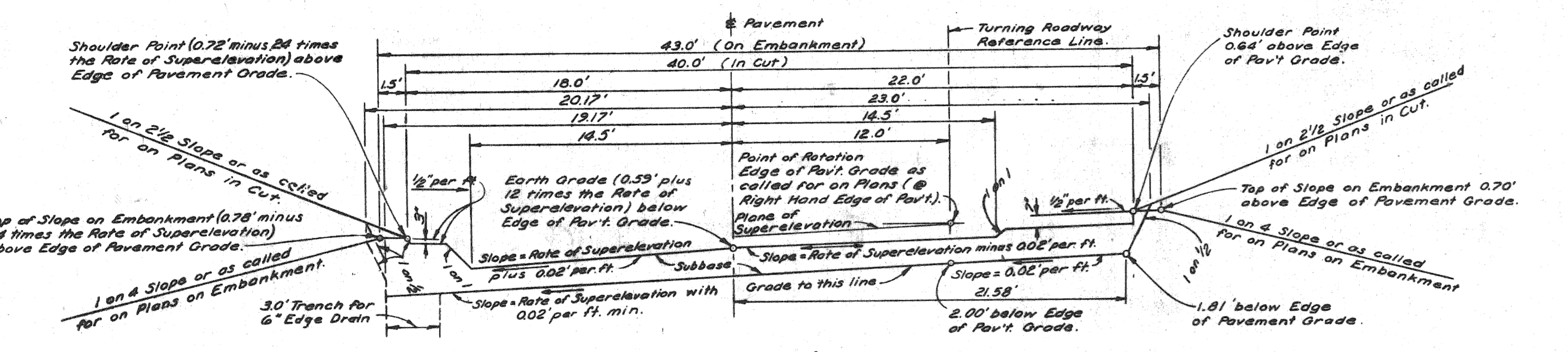
S.P.R. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MI.	175-10743		9	
ROUTE	PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	Wayne	Detroit		9	



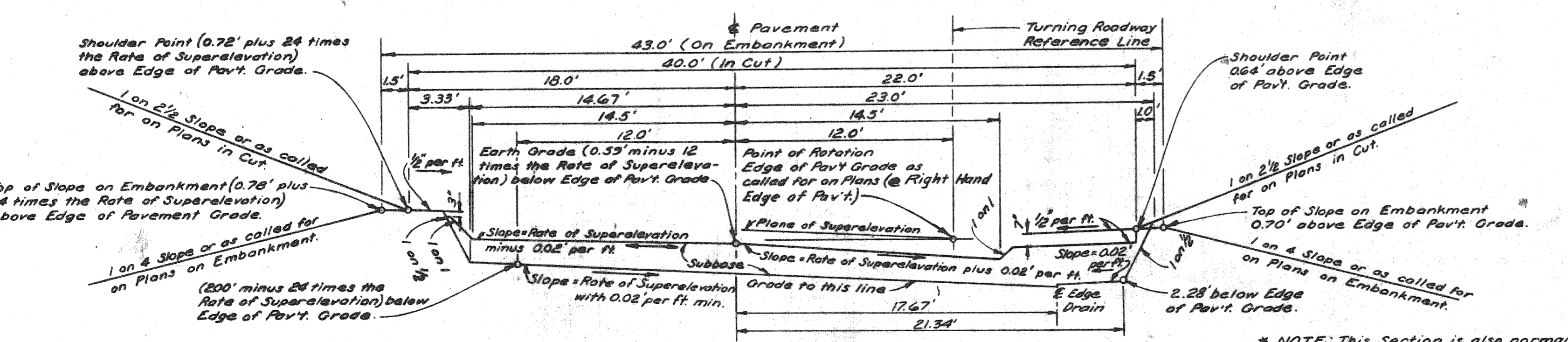
24' TURNING ROADWAY IN CUT



24' TURNING ROADWAY ON EMBANKMENT

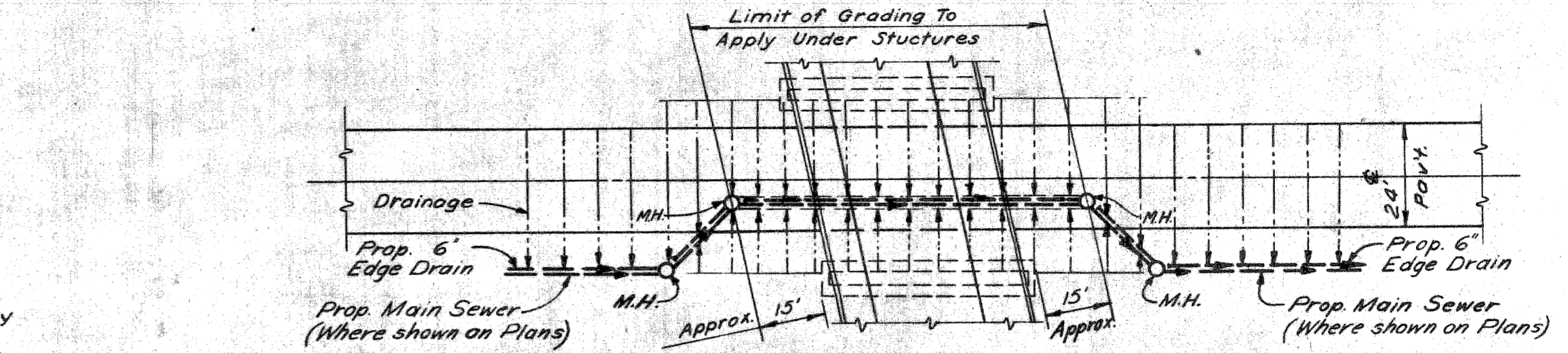


GRADING FOR SUPERELEVATED 24' TURNING ROADWAY (TURNING TO LEFT)

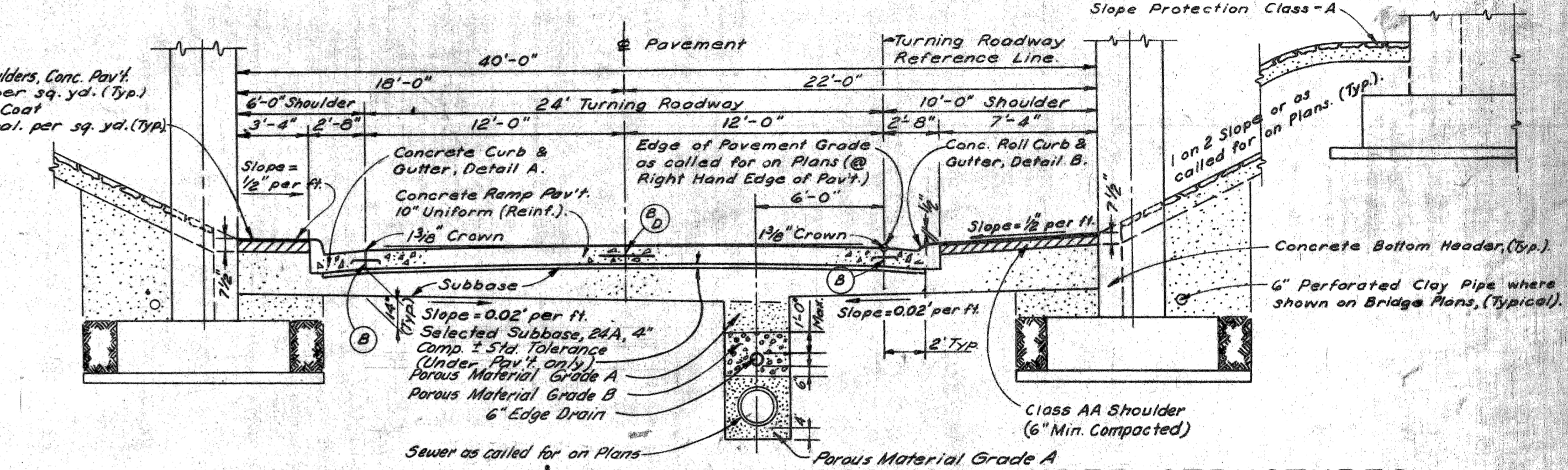


GRADING FOR SUPERELEVATED 24' TURNING ROADWAY (TURNING TO RIGHT) *

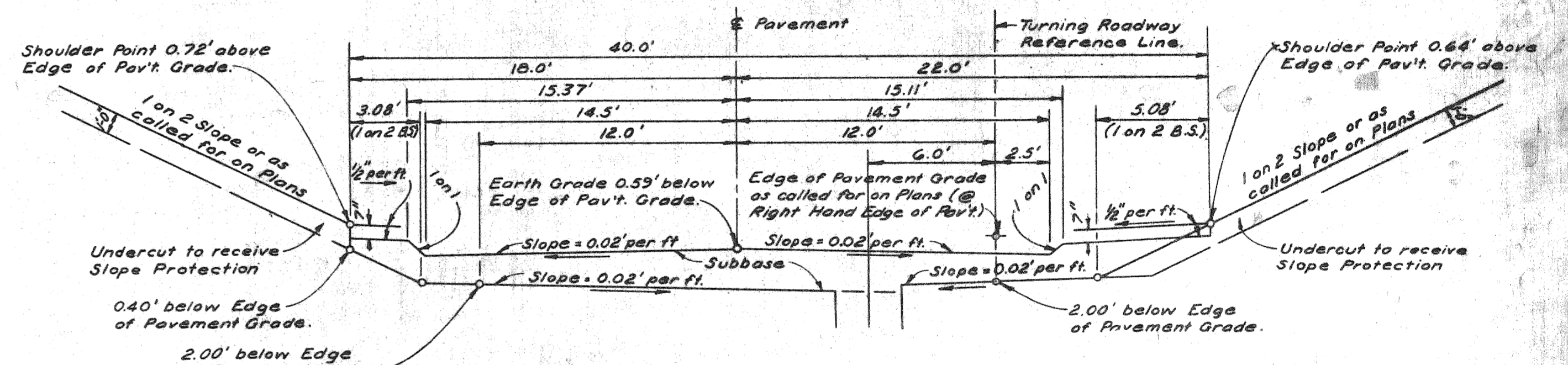
* NOTE: This Section is also normal Grading Section when Rate of Super-elevation equals zero.



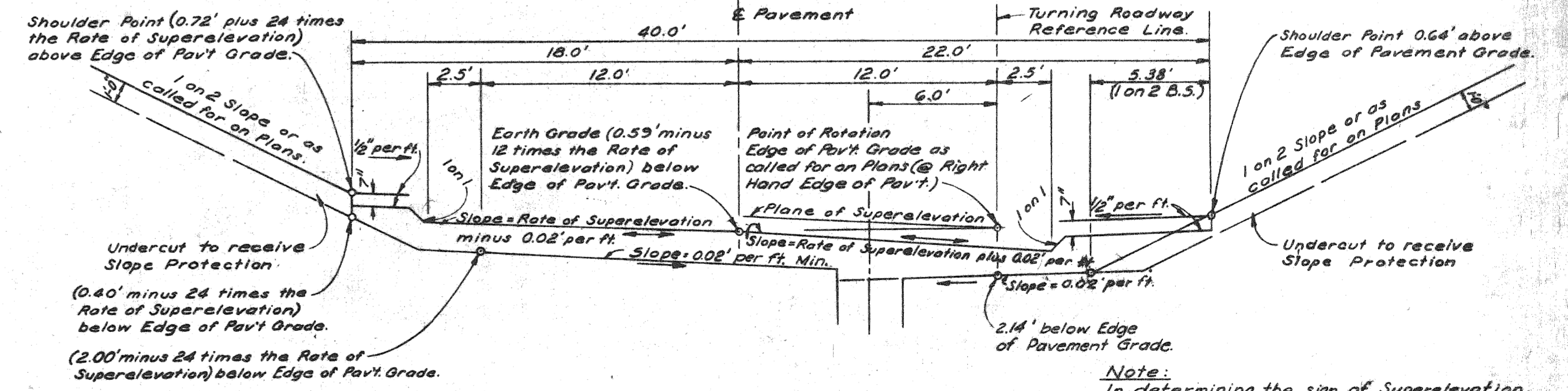
SUBBASE DRAINAGE PLAN FOR 24' TURNING ROADWAY UNDER STRUCTURES



FINISHED SECTION FOR 24' TURNING ROADWAY UNDER STRUCTURES



GRADING FOR 24' TURNING ROADWAY UNDER STRUCTURES



GRADING FOR SUPERELEVATED 24' TURNING ROADWAY UNDER STRUCTURES

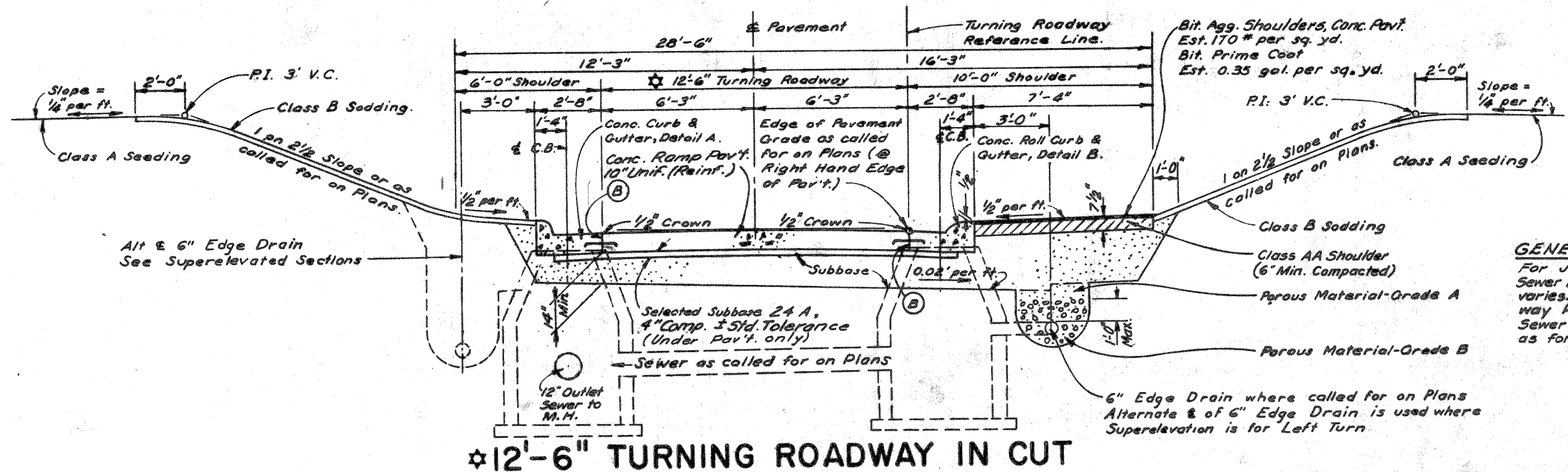
Note: In determining the sign of Super-elevation, clockwise rotation is considered positive.

SCALE: 1"=5'

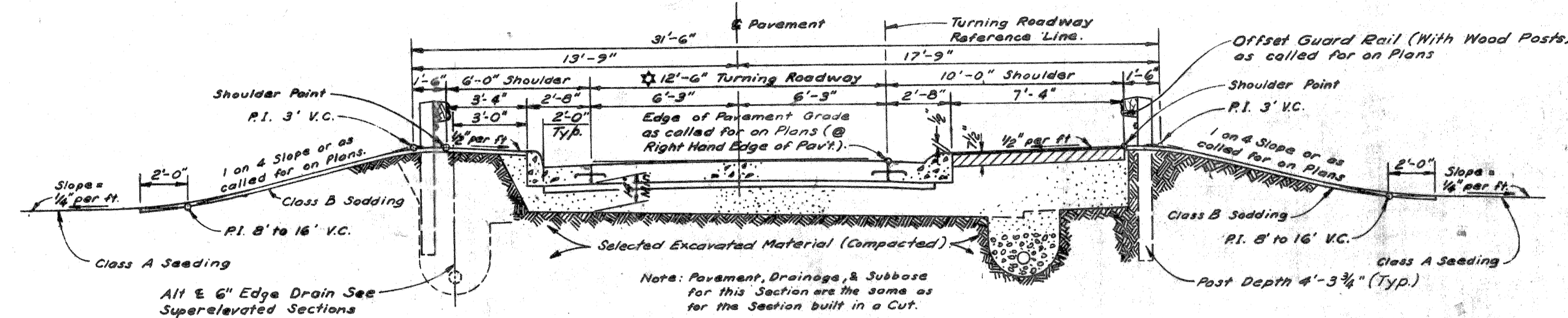
PLANS PREPARED BY
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEER
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

TYPICAL CROSS-SECTIONS

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	115-1(107)M3			
ROUTE	PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
22195	Wayne	Detroit		10	

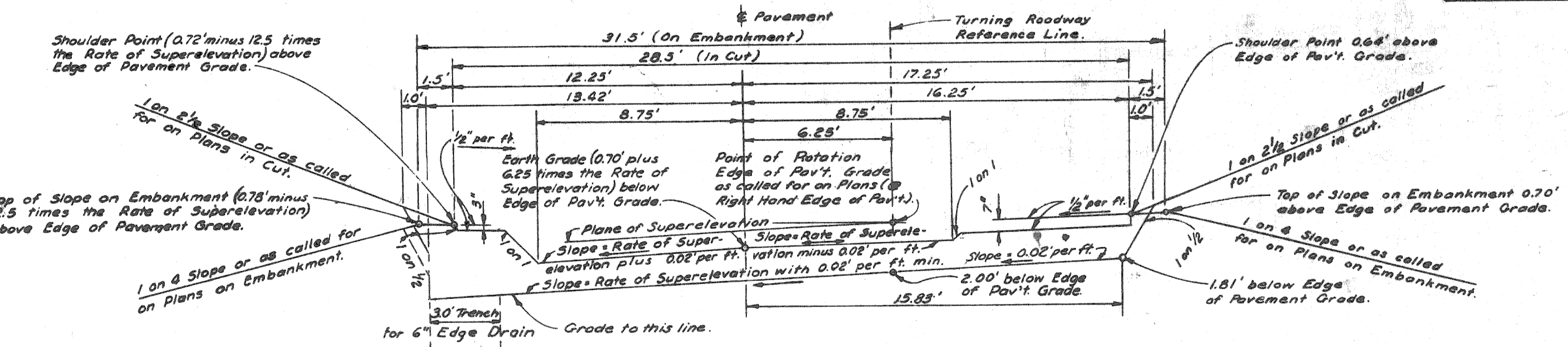


12-6" TURNING ROADWAY IN CUT

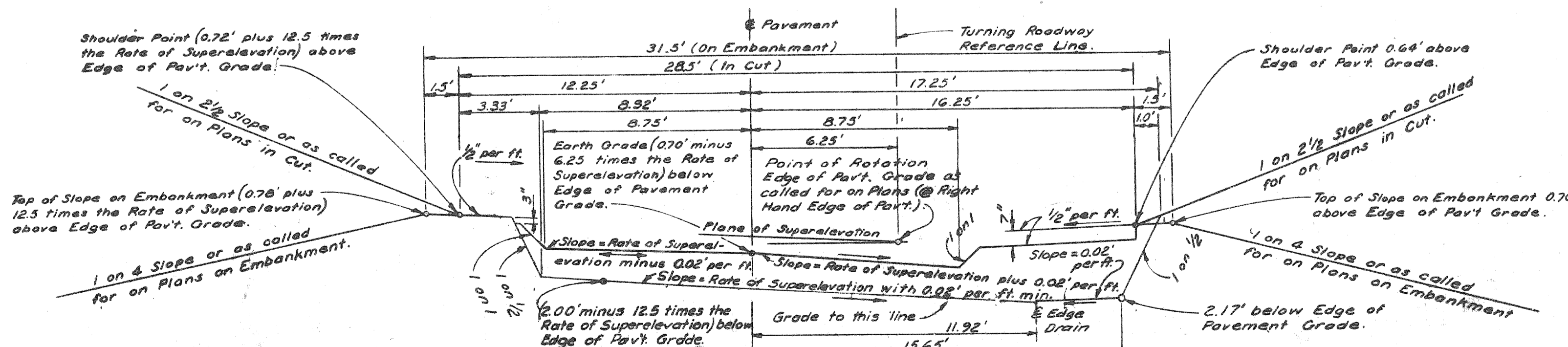


12-6" TURNING ROADWAY ON EMBANKMENT

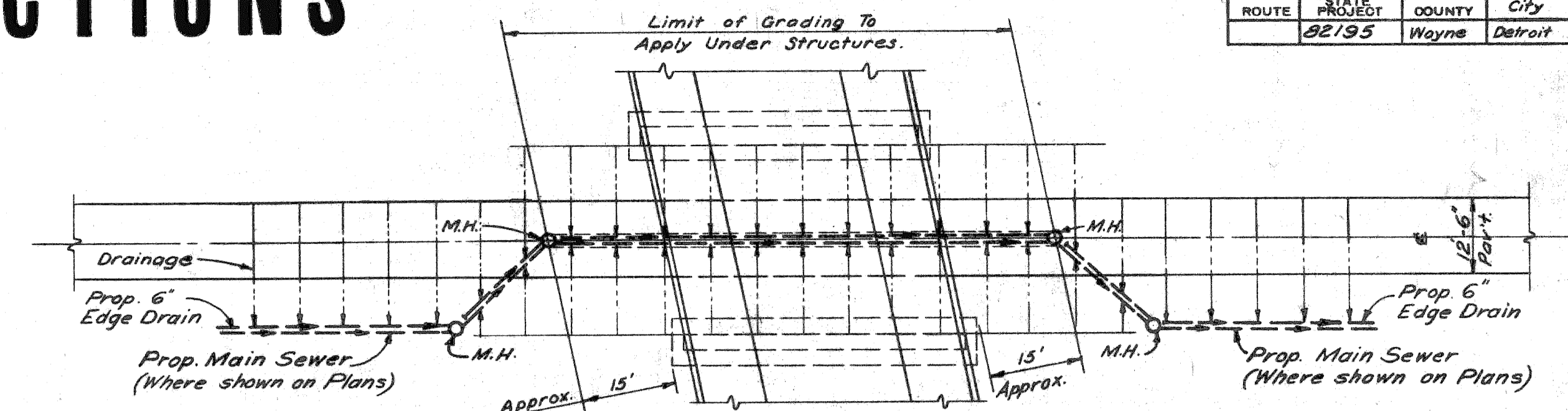
Note: Width shown is minimum and may be increased due to curved alignment. See Turning Roadway Plans.



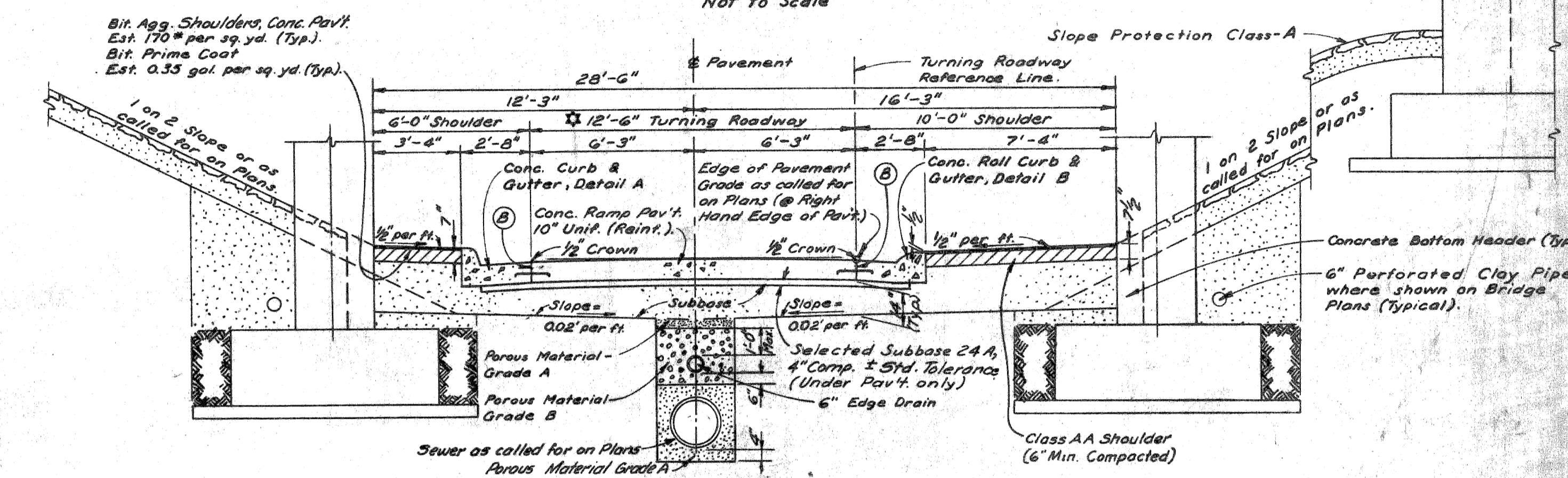
GRADING FOR SUPERELEVATED 12-6" TURNING ROADWAY (TURNING TO LEFT)



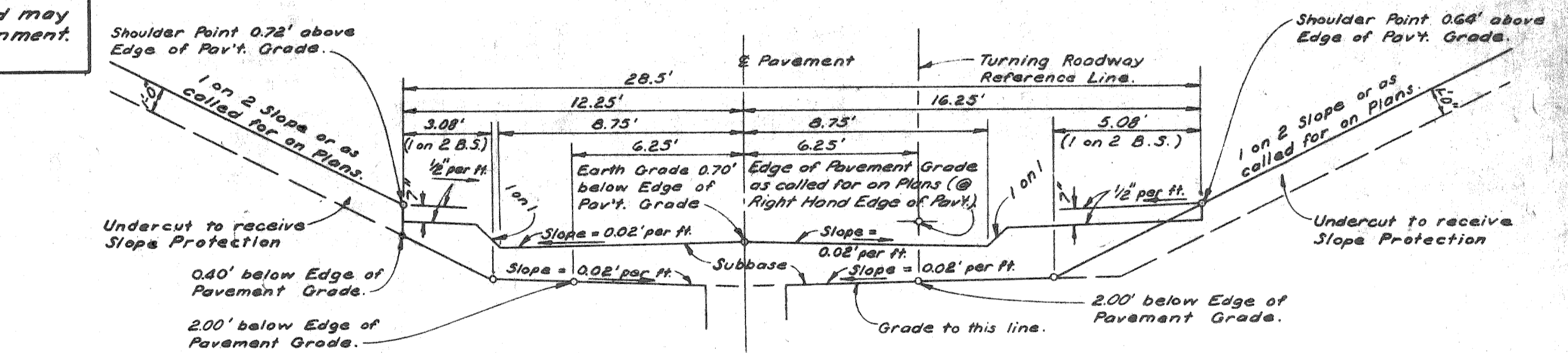
GRADING FOR SUPERELEVATED 12-6" TURNING ROADWAY (TURNING TO RIGHT)



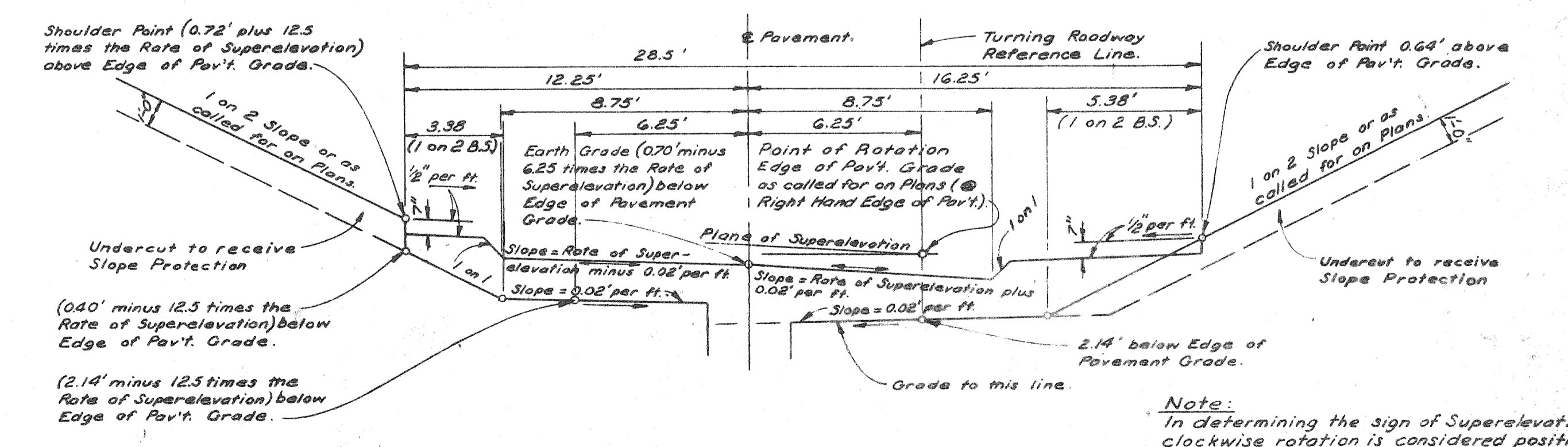
SUBBASE DRAINAGE PLAN FOR 12-6" TURNING ROADWAY UNDER STRUCTURES



FINISHED SECTION FOR 12-6" TURNING ROADWAY UNDER STRUCTURES



GRADING FOR 12-6" TURNING ROADWAY UNDER STRUCTURES



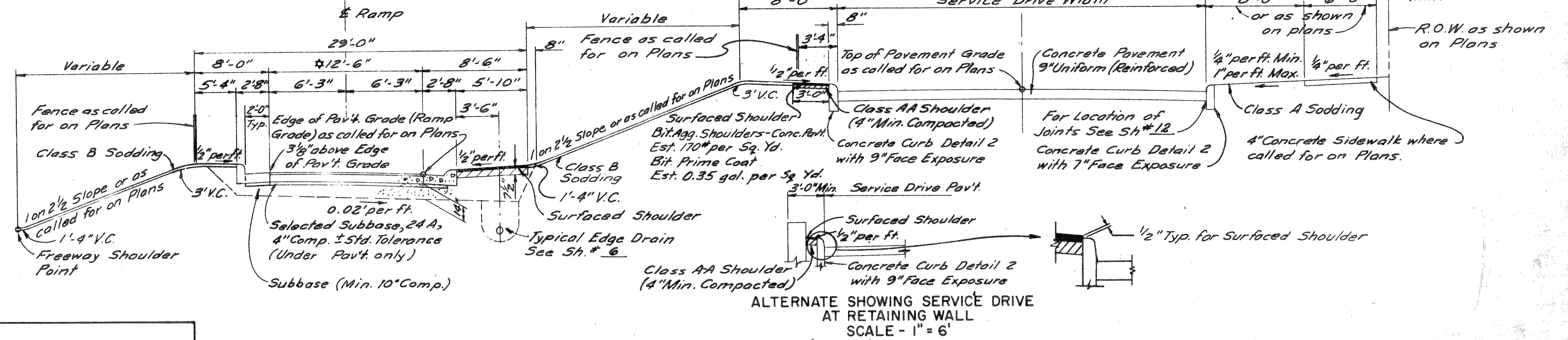
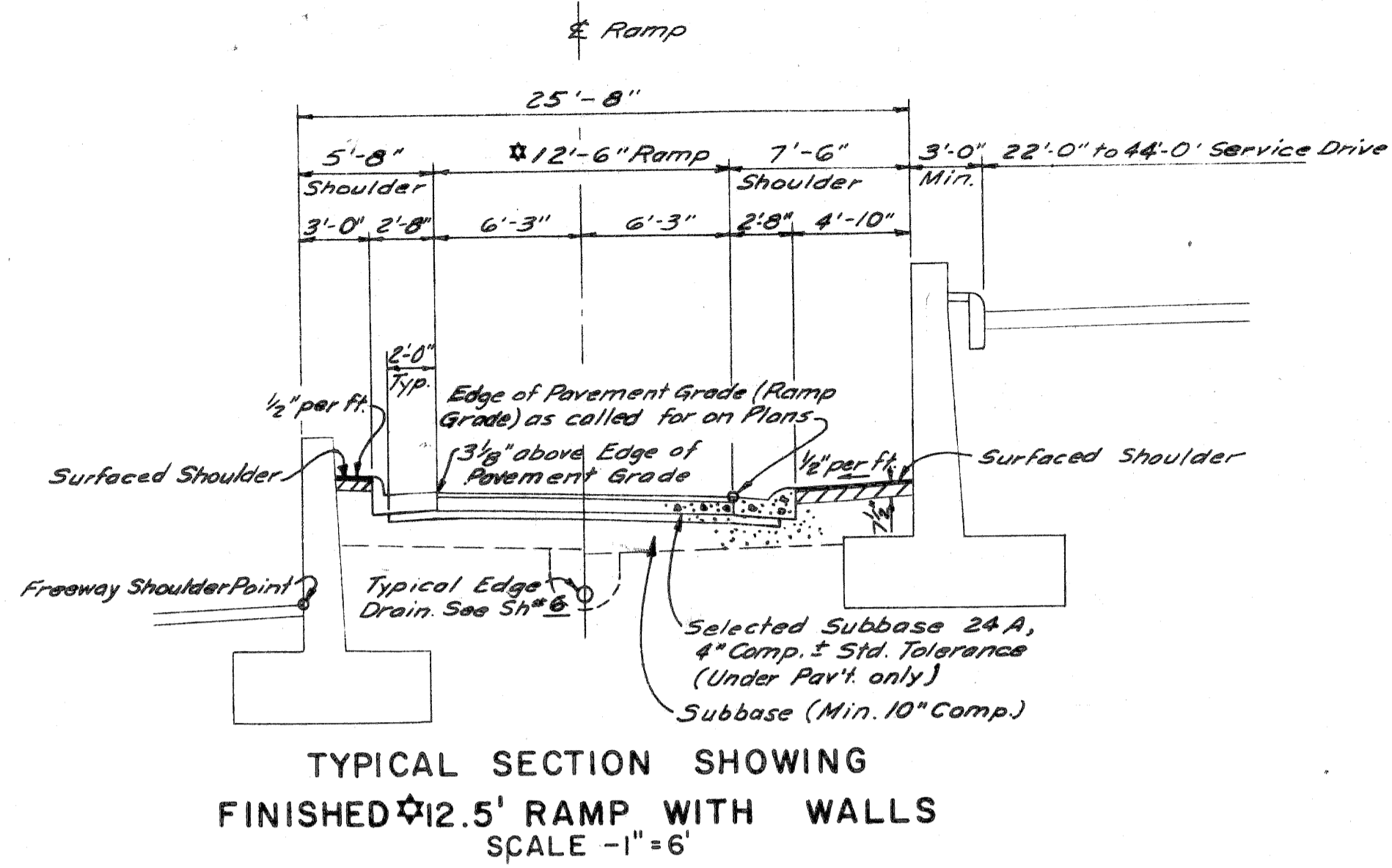
GRADING FOR SUPERELEVATED 12-6" TURNING ROADWAY UNDER STRUCTURES

* NOTE: This Section is also normal grading Section when Rate of Superelevation equals zero.

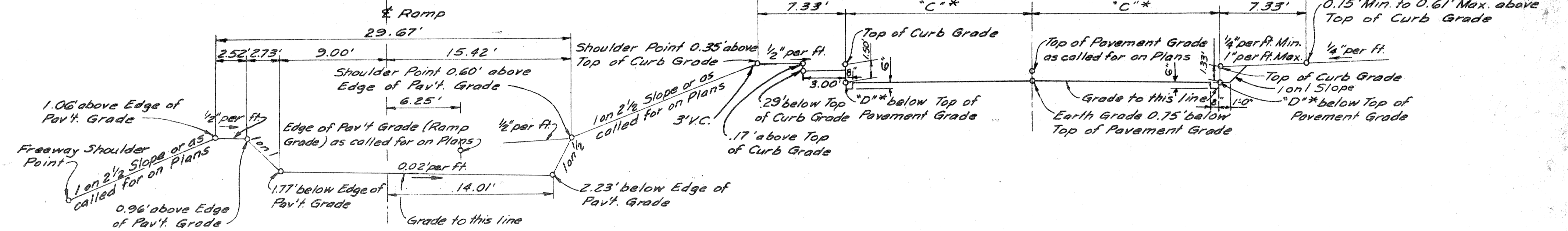
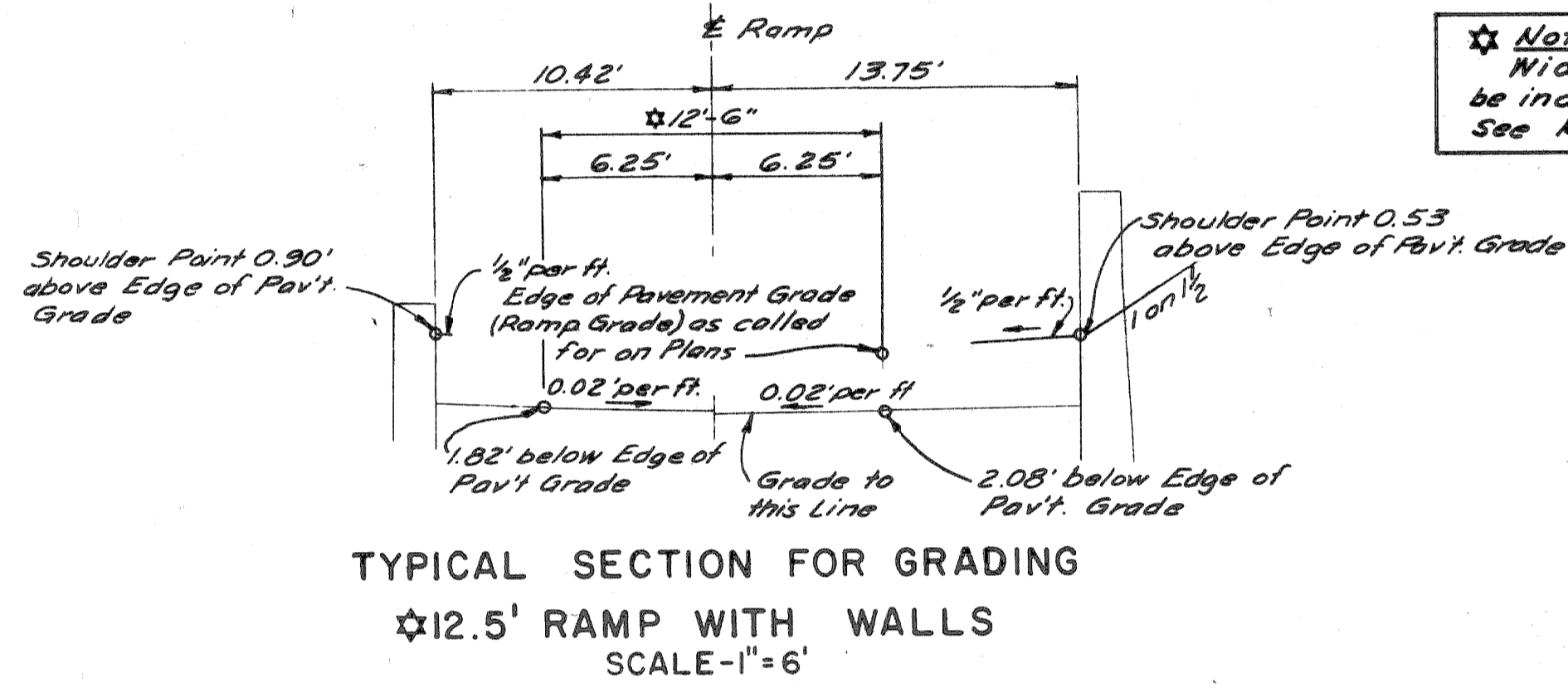
SCALE: 1"=4'

TYPICAL CROSS-SECTIONS

S.P. No.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-25-1(07)43		17	17
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	WAYNE	DETROIT		17	17
S.P. No.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS



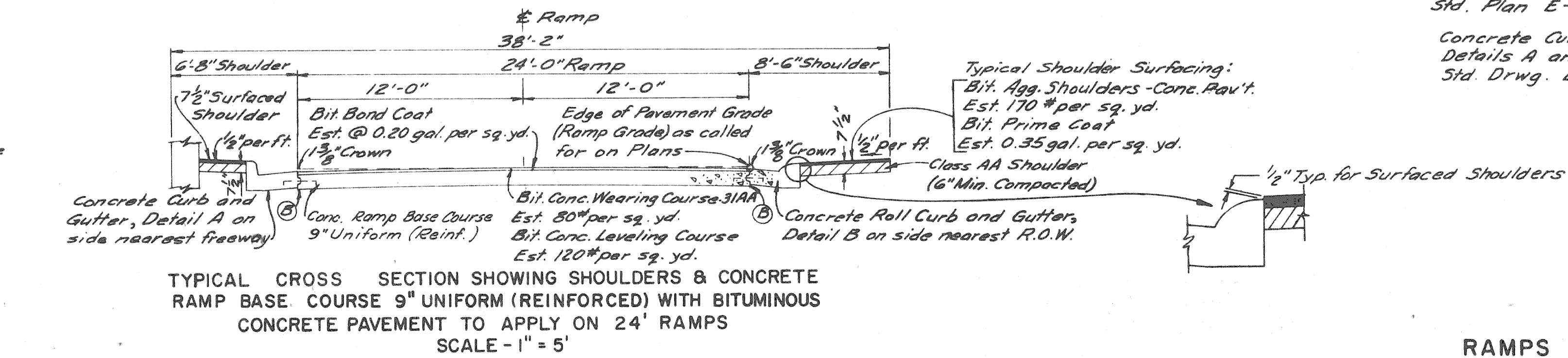
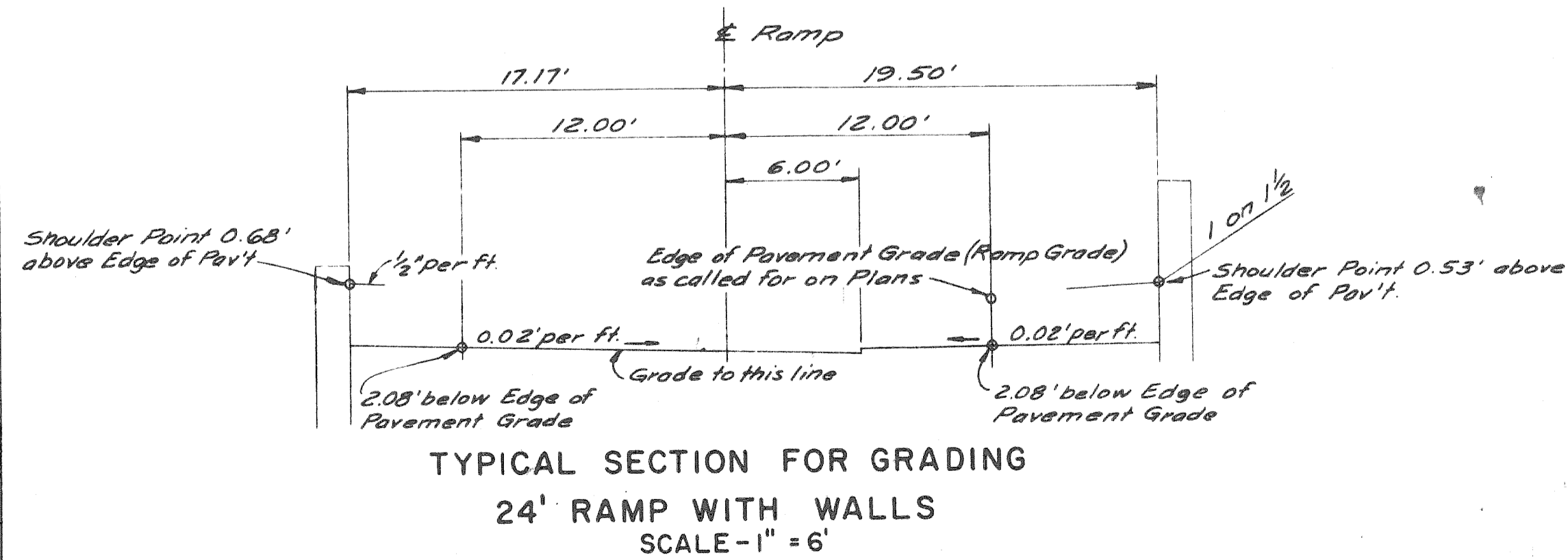
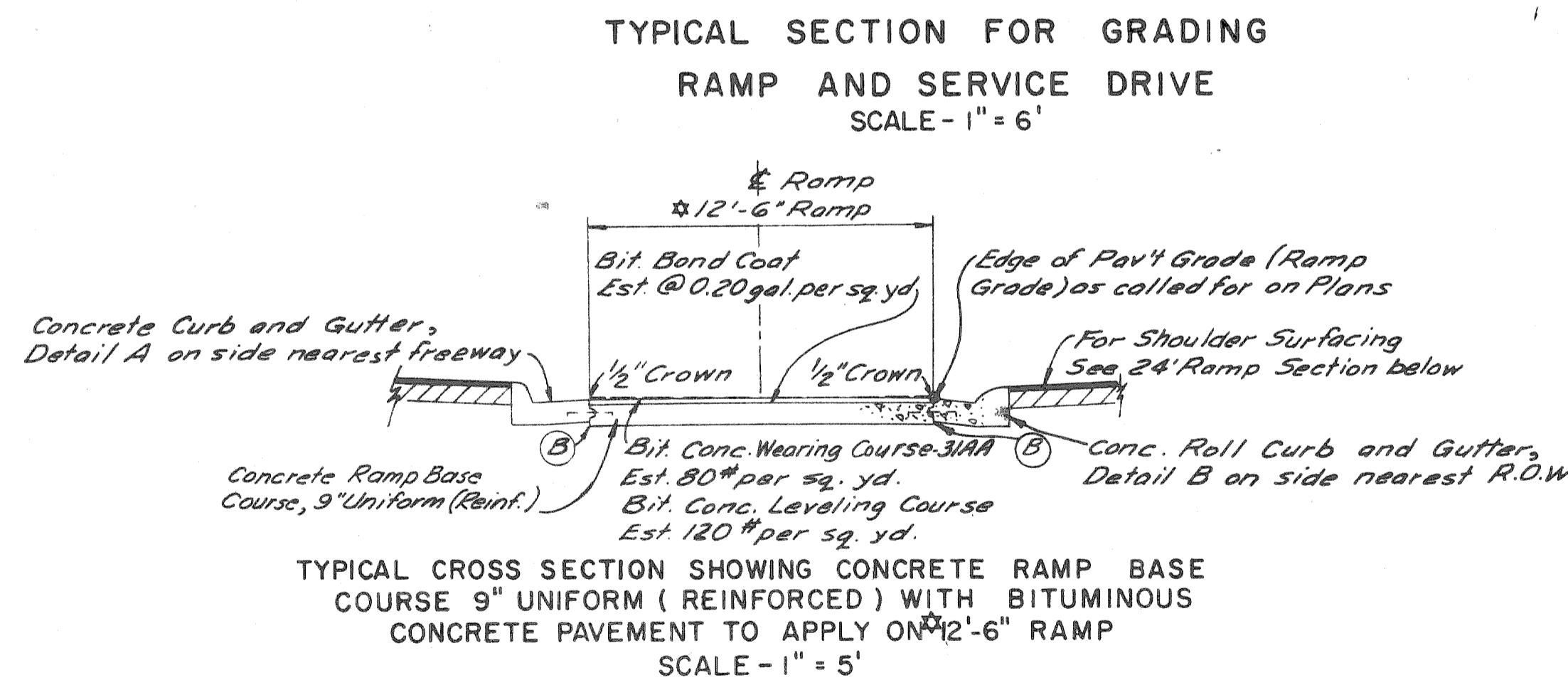
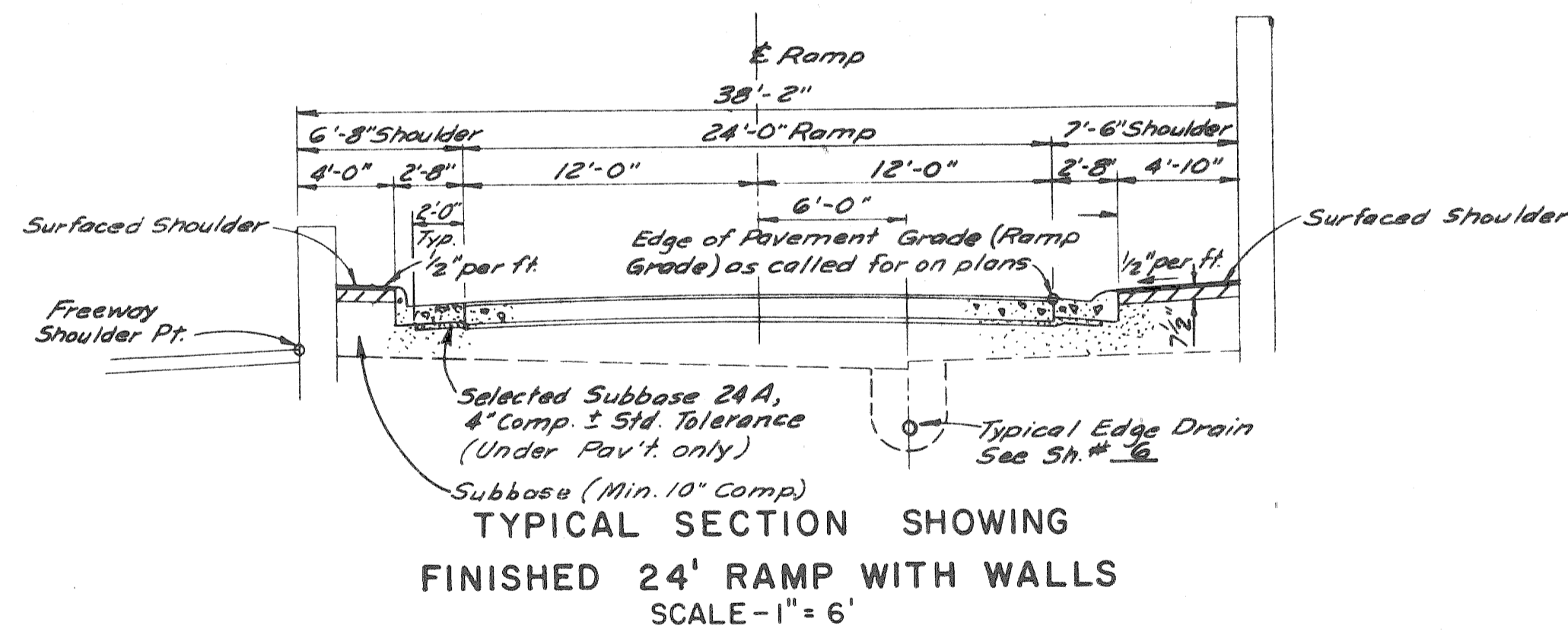
Note: Width shown is minimum and may be increased due to curved alignment. See Ramp Plans.



***STANDARD DIMENSIONS & GRADING CONSTANTS FOR SERVICE DRIVES**

Service Dr. Width (feet)	Crown (Inches)	A (feet)	B (feet)	C (feet)	D (feet)
22	1 3/4	44	38	11.67	0.90
24	2	46	40	12.67	0.92
30	2 3/4	52	46	15.67	0.98
33	3 1/4	55	49	17.17	1.02
48	5 1/4	70	64	24.67	1.23

NOTES:
 (B) - Longitudinal Bulkhead Construction Joint in accordance with M.S.H.D. Special Detail Sheet No. 47
 The Concrete Pavement and Concrete Base Course shall be reinforced throughout in accordance with M.S.H.D. Std. Plan E-4-A-21 G.
 Concrete Curb, Detail 2 and Concrete Curb and Gutters, Details A and B shall be in accordance with M.S.H.D. Std. Drawg. E-4-A 29 F.

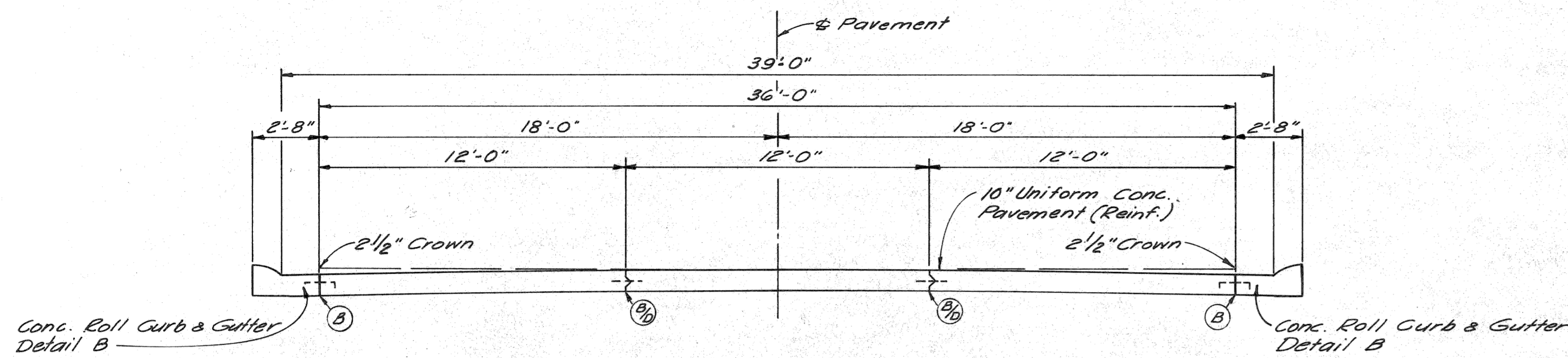


RAMPS AND SERVICE DRIVES

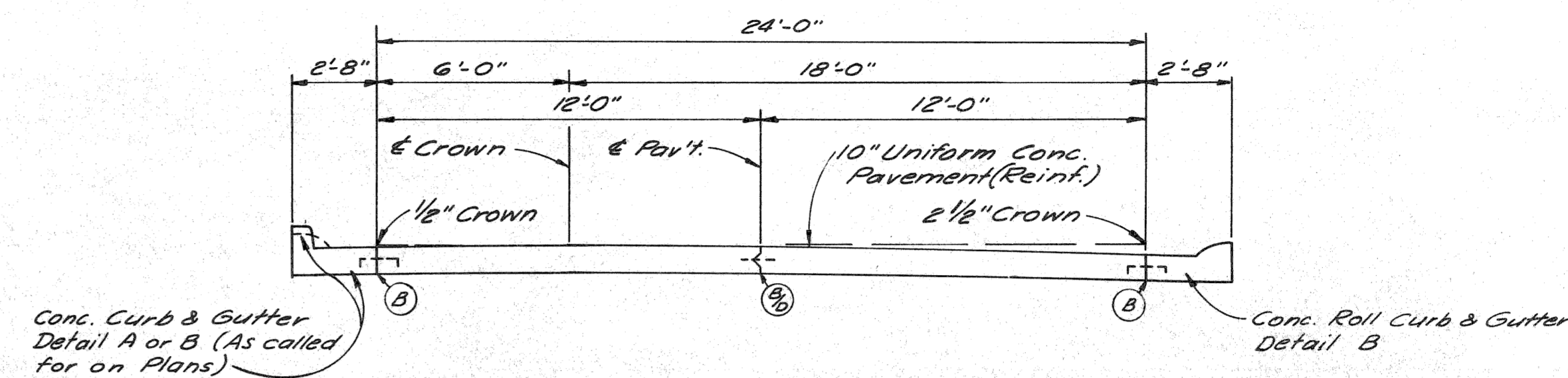
TYPICAL CROSS-SECTIONS

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-15-1(107)43			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	WAYNE	DETROIT		12	

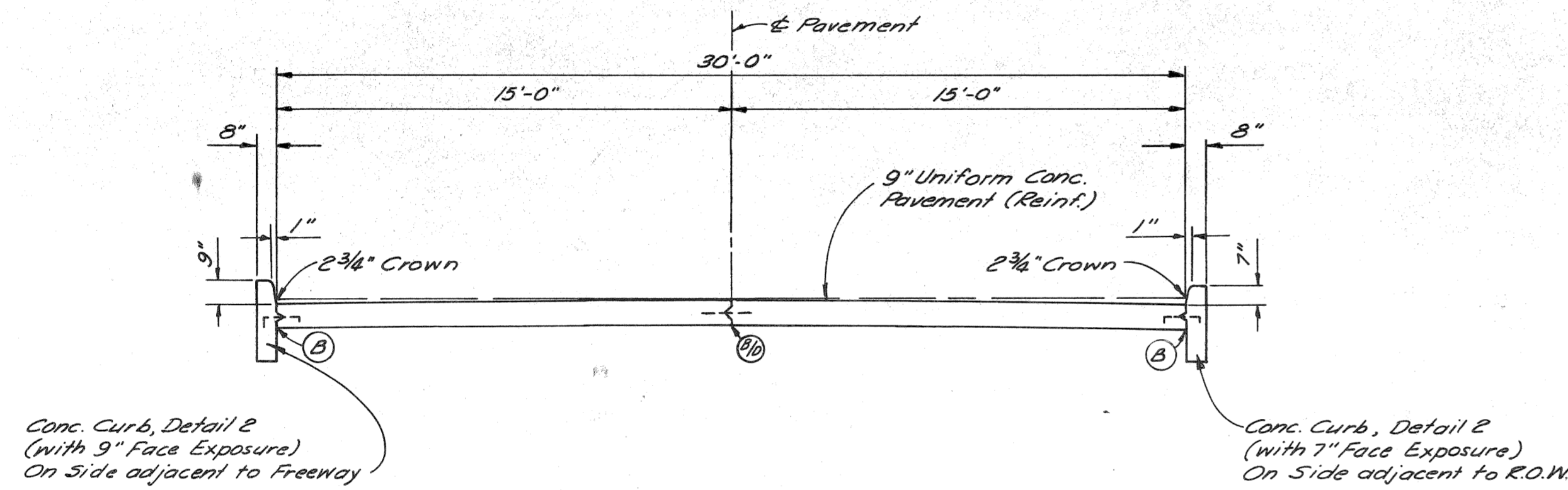
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS



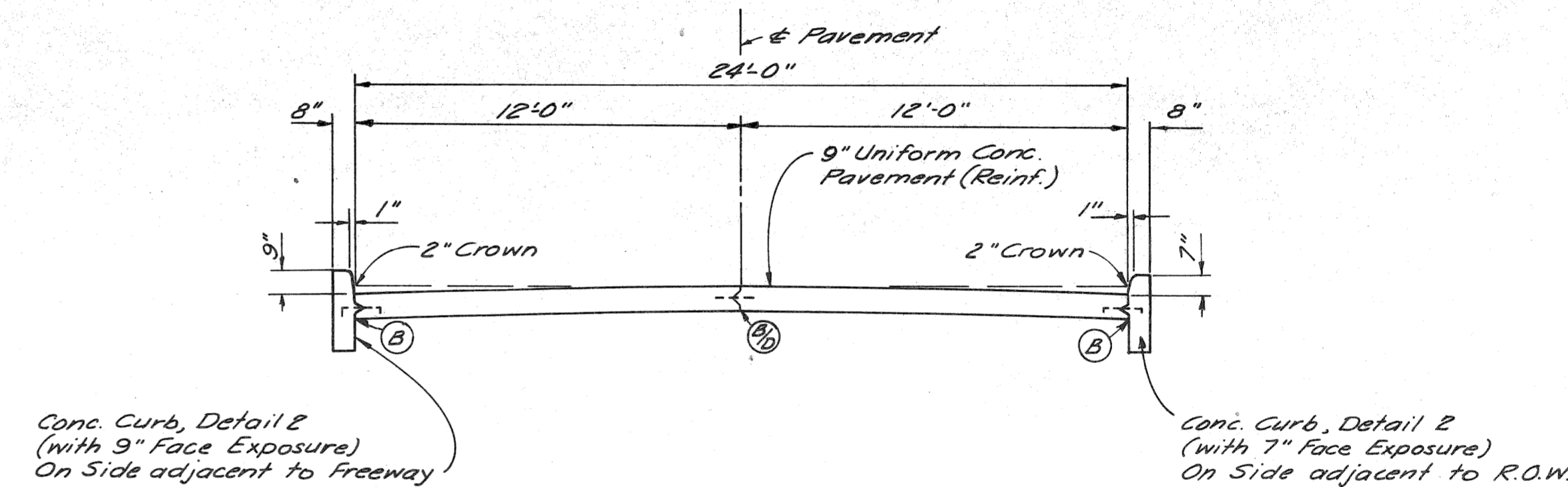
TYPICAL CROSS SECTION SHOWING
CONCRETE PAVEMENT 10" UNIFORM (REINFORCED)
TO APPLY ON 36' FREEWAY ROADWAY



TYPICAL CROSS SECTION SHOWING
CONCRETE PAVEMENT 10" UNIFORM (REINFORCED)
TO APPLY ON 24' FREEWAY ROADWAY



TYPICAL CROSS SECTION SHOWING
CONCRETE PAVEMENT 9" UNIFORM (REINFORCED)
TO APPLY ON 30' SERVICE DRIVE



TYPICAL CROSS SECTION SHOWING
CONCRETE PAVEMENT 9" UNIFORM (REINFORCED)
TO APPLY ON 24' SERVICE DRIVE

SCALE: 1" = 4'

- JOINT LEGEND**
- B- Longitudinal Bulkhead Construction Joint, according to M.S.H.D. Special Detail Sheet N° 47.
 - D- Longitudinal Lane Tie Joint with Tie Bars, according to M.S.H.D. Special Detail Sheet N° 47.
 - BD- Optional B or D

- Notes:**
1. The Concrete Pavement shall be reinforced throughout in accordance with M.S.H.D. Std. Plan E-4-A-21G and Special Detail Sheet N° 47.
 2. Concrete Curb, Detail 2, Concrete Roll Curb and Gutter, Detail B, and Concrete Curb and Gutter, Detail A shall be in accordance with M.S.H.D. Std. Plan E-4-A-29F.
 3. Temporary Concrete Pavement
Omit Transverse Expansion and Contraction Joints and place, at 30 foot intervals, Transverse Plane of Weakness Joints according to Detail N° 5 of Special Detail Sheet N° 47. Omit Longitudinal Lane Tie Bars at "D" Joints.

PAVEMENT SECTIONS

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
#	MICH.	125-10743		13	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	Wayne	Detroit		13	

SPECIAL PROVISIONS

SODDING

Class B Sod for this project shall be obtained from upland grassed areas.

Class B Sodding is called for in these plans; however, Class A Slopes will be required on this project.

Where pegging is required, the sod shall be pegged with wooden pegs.

OPEN HEARTH SLAG

Open hearth slag will not be permitted as an alternate for Porous Material Grade A designated as backfill for sewer trenches where open joint sewer has been installed.

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-135C and E-4-A-137C.

TRANSVERSE PLANE OF WEAKNESS JOINTS IN CONCRETE BASE COURSE

Transverse plane of weakness joints shall be placed according to Standard Plan E-4-A-127C.

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 4.14.05-q-1 of the Standard Specifications will be permitted on intersections outside of the normal traffic lanes.

PUBLIC UTILITIES

The existing utilities listed below and shown on these plans represent the best information available as obtained on our surveys dated October, 1961. This information does not relieve the Contractor of the responsibility to satisfy himself as to their accuracy or of his responsibility in case utilities have been constructed or removed since the above survey date.

Type of Utility	Owner	
Water Mains	Dept. of Water Supply	Detroit
Sewers	Dept. of Public Works	Detroit
Lighting	Public Lighting Comm.	Detroit
Fire	Detroit Fire Dept.	Detroit
Police	Detroit Police Dept.	Detroit
Electric	Detroit Edison Co.	Detroit
Telephone	Mich. Bell Telephone Co.	Detroit
Gas	Mich. Consolidated Gas Co.	Detroit

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 that are not within grading or structure limits in order to facilitate the operation of construction equipment, unless it is determined by the Engineer that such pole line or structures constitute a hazard to the public or are extraordinarily dangerous to the Contractor's operations.

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 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
Control Section 82251B C48**

	Stations
Eastbound Fisher Sta. 446/58.60 to Sta. 454/50	7.91
Westbound Fisher Sta. 446/58.60 to Sta. 455/00	8.41
E'bd. to N'bd. and S'bd. and E'bd. to N'bd. Turning Roadway Sta. 12/85.76 to Sta. 21/28.67 and Sta. 11/28.67 to Sta. 13/31.50	10.46
E'bd. to S'bd. Turning Roadway Sta. 9/74.66 to Sta. 14/00	4.25
N'bd. to W'bd. Turning Roadway Sta. 23/05.96 to Sta. 30/38.63	7.33
S'bd. to W'bd. Turning Roadway Sta. 7/60 to Sta. 19/57.68	11.98
S'bd. to E'bd. Turning Roadway Sta. 8/94.66 to Sta. 21/84.54	12.90
Brush Exit Ramp Sta. 445/77.54 to Sta. 453/66.40	7.89
Brush Entrance Ramp Sta. 446/91.09 to Sta. 453/99.83	7.09
West Service Drive Sta. 65/72 to Sta. 69/20	3.48
North Service Drive Sta. 445/83.37 to Sta. 448/12.93	2.29
South Service Drive Sta. 9/80 to Sta. 12/04.08	2.24
Total	86.23

	82195B C23	Control Section 82195D C24	82251B C48
Maintaining Traffic	Lump Sum	Lump Sum	Lump Sum
Water (1000 Gal. Units)	-	-	122 Units
Calcium Chloride	-	-	29 Tons
Expansion Joints	-	-	873 Lft.
Contraction Joints	-	-	1588 Lft.
End of Pour Construction Joints	-	-	125 Lft.
Field Office - Concrete Proportioning	1 Each	1 Each	1 Each
Field Office - Bituminous	1 Each	-	1 Each
Field Office - Bridge	-	-	1 Each

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

	Control Section 82251B C48
6" Bank Drain (Including Porous Material Grade "A" and Porous Material Grade "B" Backfill)	300 Lin. Ft.
6" Class A Sewer for Bank Drains (Including Selected Excavated Material Backfill)	150 Lin. Ft.
Granular Blanket	100 Cu. Yds.
Subgrade Undercutting	500 Cu. Yds.
Porous Material Grade "A" Backfill (Compacted In Place)	500 Cu. Yds.
* Protective Fence	140 Lin. Rods

* Incidental to the Project

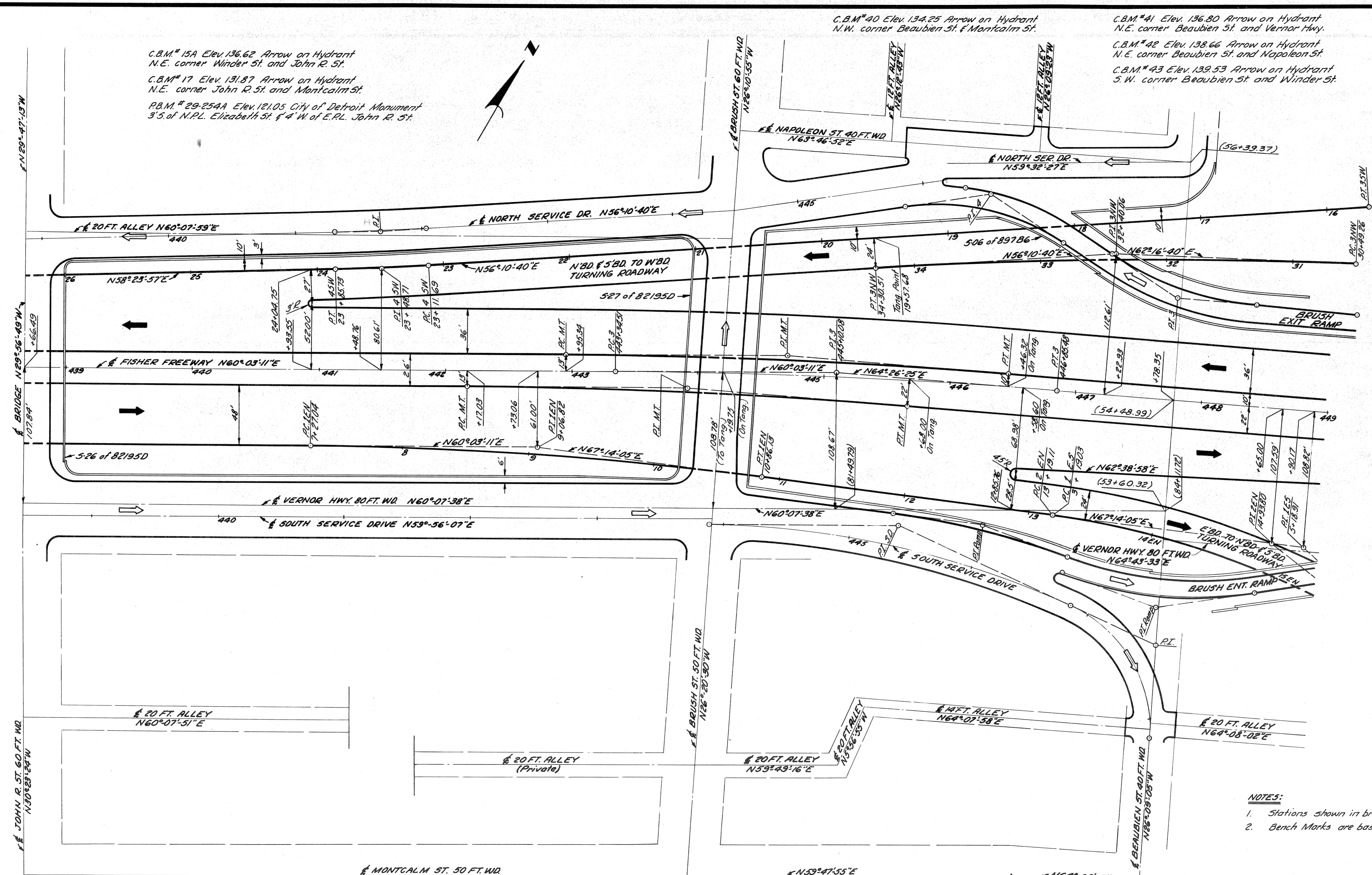
NOTES APPLYING TO STANDARD PLANS

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.

Bank Drains	E-4-A-9F, Detail 4
Edge Drain	E-4-A-9F, Detail 5
Granular Blanket	E-4-A-10D, Detail 2
Pavement Reinforcement	E-4-A-21G
Grading Cross-Sections	E-4-A-26E
Cover A	E-4-A-27A-3
Cover E	E-4-A-27E-3
Cover H	E-4-A-27H
Cover J	E-4-A-27J
Cover M	E-4-A-27M
Manholes, Catch Basins and Inlets	E-4-A-27R-4
Concrete Curb, Roll Curb and Curb and Gutter	E-4-A-29F
Curb and Gutter Headers	E-4-A-29F, Detail 9
Driveway Returns and Driveway Openings	E-4-A-29F
Bridge Header	E-4-A-29F, Detail 21
Pavement Joints	According to Special Details
Superelevation of Curves	E-4-A-49C (Except that the rate of super-elevation is to be called for on plans)
Pavement Crowns	E-4-A-49C (Except that the crowns for surface roadways are to be called for on plans)
Road Project Markers	E-4-A-77D
4" Concrete Sidewalk	E-4-A-110B, Detail 2
7" Concrete Sidewalk	E-4-A-110B, Detail 3
Typical Joint Layout	E-4-A-127C (Except that the joint spacing shall be called for in the supplemental specs.)
Tile Trap	E-4-A-129
Dowel Bar Assemblies for Load Transfer at Transverse Joints	E-4-A-130E
Location of Transverse Expansion and Contraction Joints in Concrete Pavement	E-4-A-135C
Steel Beam Guard Rail	E-4-A-137E
Base Plate for Expansion Joint & Transverse Contraction Joint	E-4-A-138 (Except that spot welds may be substituted for rivets to attach the 1" angle.)
Double Steel Beam Guard Rail	E-4-A-140B
Location of Guard Rail at Structures (Dual Highways)	E-4-A-142C
Concrete Nose Detail for Urban Freeways	E-4-A-145
Offset Guard Rail - Single	E-4-A-148
Barricade and Project Sign	E-6-A-55-F

NOTES AND SPECIAL PROVISIONS

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-15-1(107)43			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	WAYNE	DETROIT		14	
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



C.B.M. # 15A Elev. 136.62 Arrow on Hydrant
N.E. corner Winder St. and John R. St.
C.B.M. # 17 Elev. 131.87 Arrow on Hydrant
N.E. corner John R. St. and Montcalm St.
P.B.M. # 29-254A Elev. 121.05 City of Detroit Monument
3' S. of N.P.L. Elizabeth St. & 4' W. of E.P.L. John R. St.

C.B.M. # 40 Elev. 134.25 Arrow on Hydrant
N.W. corner Beaubien St. & Montcalm St.
C.B.M. # 41 Elev. 136.80 Arrow on Hydrant
N.E. corner Beaubien St. and Vernor Hwy.
C.B.M. # 42 Elev. 138.66 Arrow on Hydrant
N.E. corner Beaubien St. and Napoleon St.
C.B.M. # 43 Elev. 139.53 Arrow on Hydrant
S.W. corner Beaubien St. and Winder St.

- NOTES:**
1. Stations shown in brackets thus (), refer to survey stationing.
 2. Bench Marks are based on City of Detroit datum.

PLAN
Scale: 1"=40'

CURVE DATA S'BD. TO W'BD. & N'BD. TO W'BD. TURNING ROADWAYS

Curve 4SN	Curve 3NW
Δ = 2° 13' 17"	Δ = 6° 06' 00"
D = 3° 00' 00"	D = 1° 36' 00"
R = 1909.86'	R = 3580.99'
T = 37.03'	T = 190.81'
L = 74.05'	L = 381.25'
E = 0.36'	E = 5.08'
PC = 23+116.9	PC = 30+99.26
PI = 23+48.71	PI = 32+40.06
PT = 23+85.73	PT = 34+90.51

CURVE DATA MAIN ROADWAY

Curve 3
Δ = 4° 23' 14"
D = 1° 15' 00"
R = 4583.66'
T = 175.53'
L = 350.98'
E = 3.34'
PC = 443+34.51
PI = 445+10.08
PT = 446+85.48

CURVE DATA MEDIAN TRANSITION MAIN ROADWAY

S. Edge W'BD. Parvt.	N. Edge E'BD. Parvt.
Δ = 4° 23' 14"	Δ = 4° 23' 14"
D = 1° 14' 48.74"	D = 1° 15' 17.25"
R = 4583.66'	R = 4566.16'
T = 176.02'	T = 174.90'
L = 351.86'	L = 349.64'
E = 3.37'	E = 3.35'
PC =	PC =
PI =	PI =
PT =	PT =

CURVE DATA E'BD. TO N'BD. & E'BD. TO S'BD. TURNING ROADWAYS

Curve 1EN	Curve 2EN	Curve 1ES
Δ = 7° 10' 54"	Δ = 30° 31' 31"	Δ = 34° 40' 45.57"
D = 2° 00' 00"	D = 8° 57' 00"	D = 3° 57' 00"
R = 2864.79'	R = 640.18'	R = 640.18'
T = 178.78'	T = 174.68'	T = 189.88'
L = 353.08'	L = 341.07'	L = 387.98'
E = 5.64'	E = 23.41'	E = 30.48'
PC = 7+27.04	PC = 13+13.11	PC = 3+19.03
PI = 9+06.82	PI = 14+23.80	PI = 5+18.91
PT = 10+86.13	PT = 16+60.18	PT = 7+06.51

ALIGNMENT OF
FISHER FREEWAY STA. 439+00 TO STA. 449+00
E'BD. TO N'BD. & S'BD. AND N'BD. & S'BD. TO W'BD.
TURNING ROADWAYS

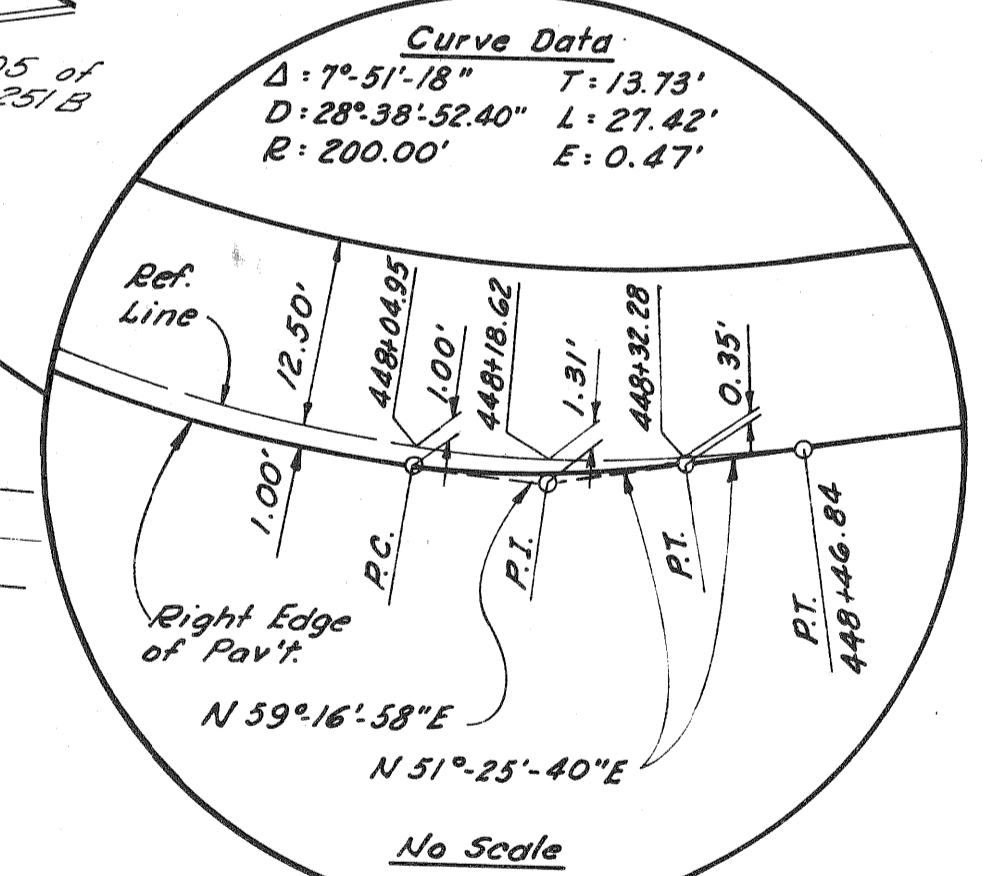
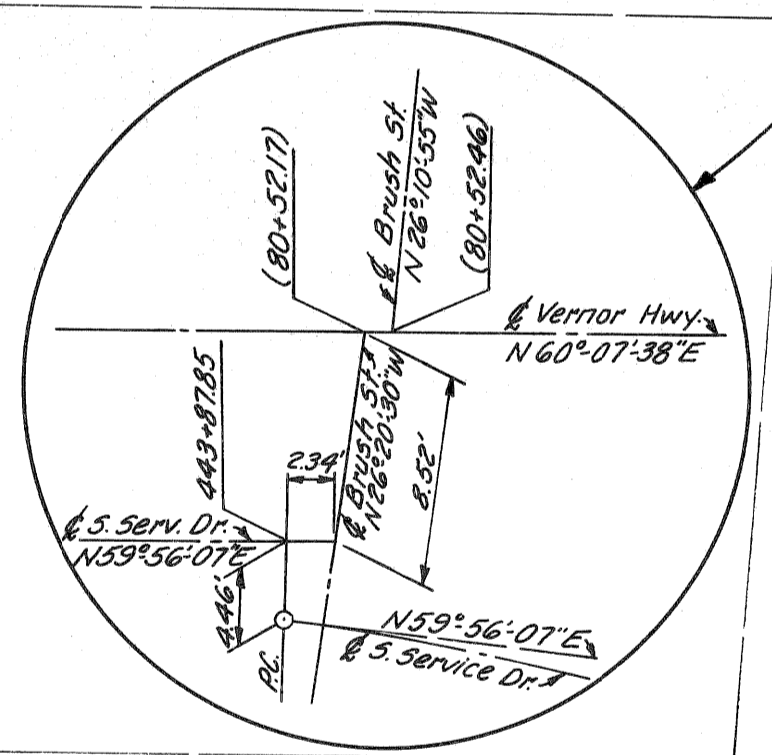
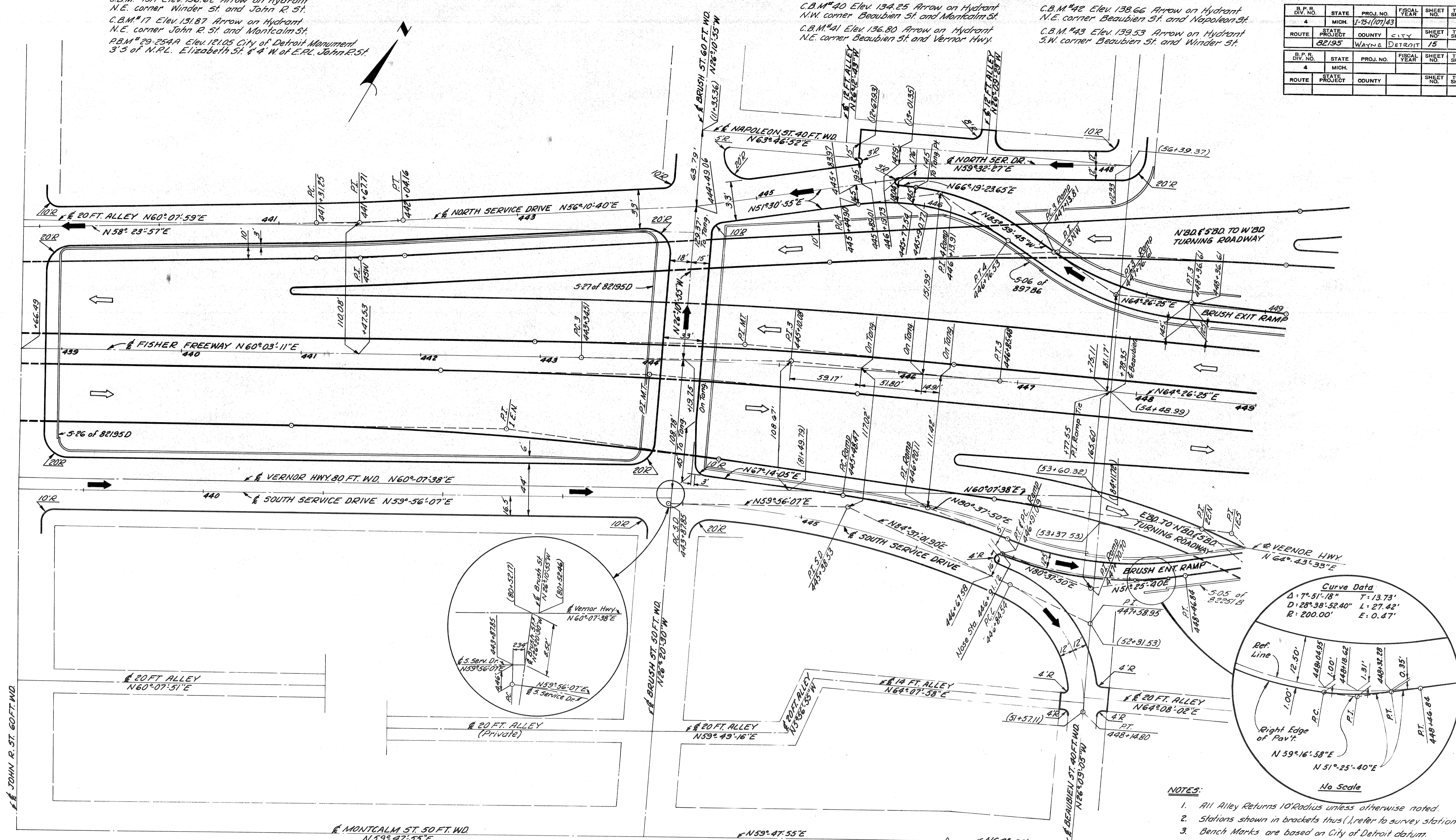
C.B.M. 15A Elev. 136.62 Arrow on Hydrant
N.E. corner Winder St. and John R St.
C.B.M. 17 Elev. 131.87 Arrow on Hydrant
N.E. corner John R St. and Montcalm St.
P.B.M. 29-25AA Elev. 121.05 City of Detroit Monument
3' S of N.P.L. Elizabeth St. & 4' W of E.P.L. John R St.

C.B.M. 40 Elev. 134.25 Arrow on Hydrant
N.W. corner Beaubien St. and Montcalm St.
C.B.M. 41 Elev. 136.80 Arrow on Hydrant
N.E. corner Beaubien St. and Vernor Hwy.

C.B.M. 42 Elev. 138.66 Arrow on Hydrant
N.E. corner Beaubien St. and Napoleon St.
C.B.M. 43 Elev. 139.53 Arrow on Hydrant
S.W. corner Beaubien St. and Winder St.

S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-75-10143			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	WAYNE	DETROIT		15	

S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS



CURVE DATA NORTH SER. DR.

Δ = 2° 13' 17"
D = 3° 02' 49.44"
R = 1880.36'
T = 36.46'
L = 72.90'
E = 0.35'
P.C. = 441+31.25
P.I. = 441+67.71
P.T. = 442+04.16

CURVE DATA BRUSH EXIT RAMP

Curve 3	Curve 4
Δ = 29° 33' 50"	Δ = 42° 23' 20"
D = 24° 04' 23.88"	D = 32° 16' 45.52"
R = 238.00'	R = 177.30'
T = 62.80'	T = 63.01'
L = 122.81'	L = 131.63'
E = 8.15'	E = 12.94'
P.C. = 447+13.81	P.C. = 445+44.90
P.I. = 447+76.61	P.I. = 446+13.91
P.T. = 448+36.61	P.T. = 446+76.33

CURVE DATA MAIN ROADWAY

Curve 3
Δ = 4° 23' 14"
D = 1° 15' 00"
R = 4583.66'
T = 175.58'
L = 350.98'
E = 3.36'
P.C. = 443+34.51
P.I. = 445+10.08
P.T. = 446+85.88

CURVE DATA BRUSH ENTRANCE RAMP

Curve Left Edge	Curve @ Service Dr.
Δ = 13° 23' 45"	Δ = 29° 12' 10"
D = 9° 23' 33.90"	D = 18° 45' 00"
R = 610.00'	R = 305.58'
T = 71.64'	T = 79.61'
L = 142.62'	L = 153.75'
E = 4.19'	E = 0.20'
P.C. = 445+48.47	P.C. = 446+31.09
P.I. = 446+20.11	P.I. = 447+70.70
P.T. = 446+91.09	P.T. = 448+46.84

CURVE DATA SOUTH SER. DR.

Curve @ Brush	Curve @ Beaubien
Δ = 24° 40' 54.90"	Δ = 69° 13' 53.10"
D = 8° 19' 09.27"	D = 53° 08' 47.84"
R = 688.71'	R = 107.81'
T = 150.68'	T = 74.42'
L = 296.69'	L = 130.27'
E = 16.29'	E = 23.19'
P.C. = 443+37.85	P.C. = 446+84.54
P.I. = 445+38.53	P.I. = 447+58.95
P.T. = 446+84.54	P.T. = 448+14.80

- NOTES:**
- All Alley Returns 10' Radius unless otherwise noted.
 - Stations shown in brackets thus () refer to survey stationing.
 - Bench Marks are based on City of Detroit datum.

ALIGNMENT OF SERVICE DRIVES JOHN R. TO BEAUBIEN

D.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-75-107A3			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	WAYNE	DETROIT		17	

D.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS

C.B.M. #57 Elev. 134.162 Arrow on Hydrant
S.W. Corner St. Antoine and Columbia.
C.B.M. #58 Elev. 136.332 Arrow on Hydrant
W. side of St. Antoine, 35' S of Montcalm.

CURVE DATA E'BD. TO S'BD. TURNING RDWY.

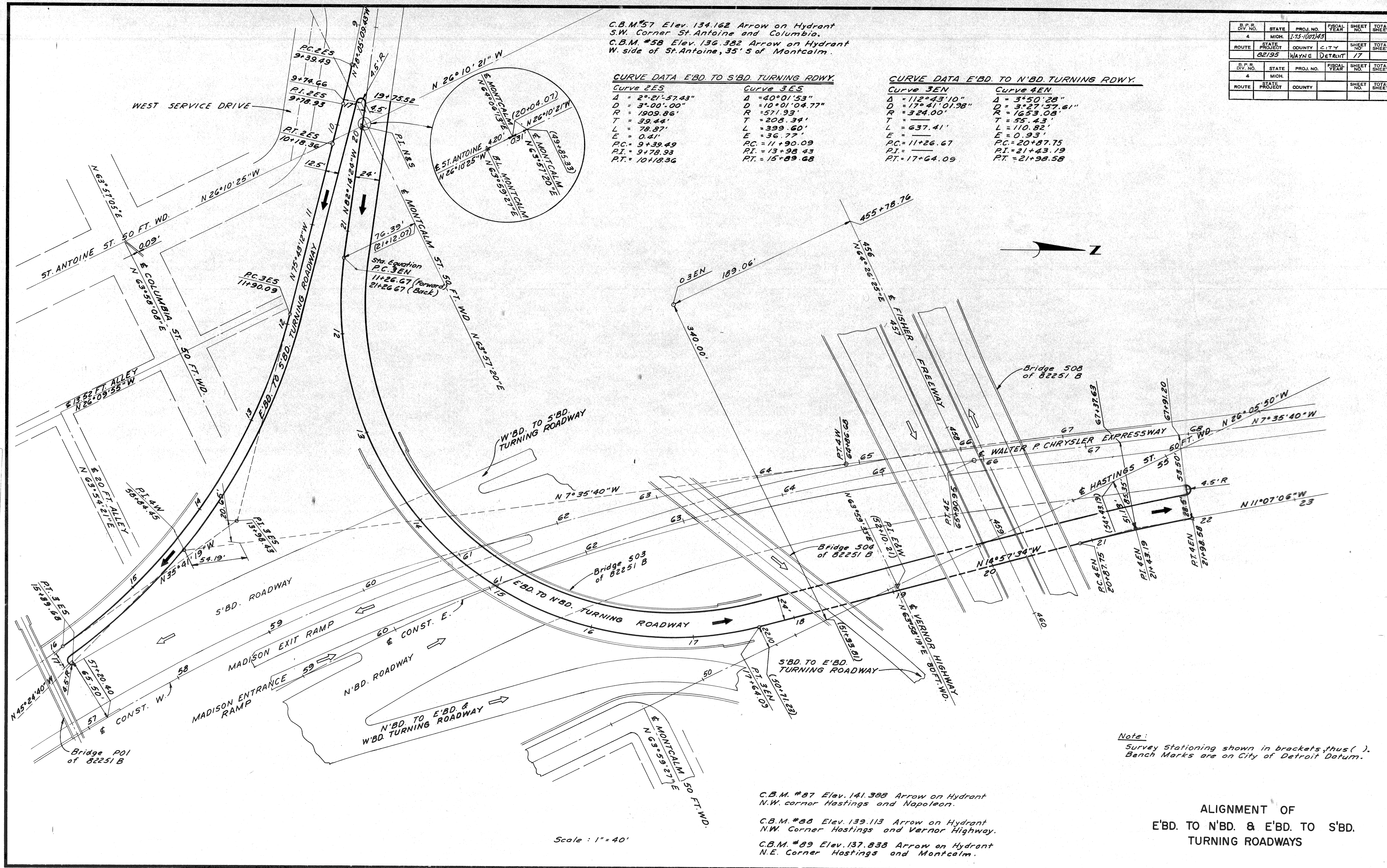
Curve 2ES
 $\Delta = 2^\circ 21' 57.43''$
 $D = 3^\circ 00' 00''$
 $R = 1909.86'$
 $T = 39.44'$
 $L = 78.87'$
 $E = 0.41'$
 $PC = 9+39.49$
 $PT = 9+78.93$
 $PT = 10+18.36$

Curve 3ES
 $\Delta = 40^\circ 01' 53''$
 $D = 10^\circ 01' 04.77''$
 $R = 571.93'$
 $T = 208.34'$
 $L = 399.60'$
 $E = 36.77'$
 $PC = 11+90.09$
 $PT = 13+98.43$
 $PT = 15+89.68$

CURVE DATA E'BD. TO N'BD. TURNING RDWY.

Curve 3EN
 $\Delta = 112^\circ 43' 10''$
 $D = 17^\circ 41' 01.98''$
 $R = 324.00'$
 $T = 637.41'$
 $L = 637.41'$
 $E = 0.93'$
 $PC = 11+26.67$
 $PT = 17+64.09$

Curve 4EN
 $\Delta = 3^\circ 50' 28''$
 $D = 3^\circ 27' 57.61''$
 $R = 1653.08'$
 $T = 55.43'$
 $L = 110.82'$
 $E = 0.93'$
 $PC = 20+87.75$
 $PT = 21+43.19$
 $PT = 21+98.58$



W'BD. TO S'BD. TURNING ROADWAY

Scale: 1" = 40'

Note:
Survey Stationing shown in brackets, thus ().
Bench Marks are on City of Detroit Datum.

C.B.M. #87 Elev. 141.388 Arrow on Hydrant
N.W. corner Hastings and Napoleon.
C.B.M. #88 Elev. 139.113 Arrow on Hydrant
N.W. Corner Hastings and Vernor Highway.
C.B.M. #89 Elev. 137.838 Arrow on Hydrant
N.E. Corner Hastings and Montcalm.

ALIGNMENT OF
E'BD. TO N'BD. & E'BD. TO S'BD.
TURNING ROADWAYS

PREPARED BY
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF HIGHWAYS AND HIGHWAYS

R.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	7-75-10743			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	Wayne	Detroit		18	

C.B.M. #44 Elev. 140.751 Arrow on hydrant N.W. corner St. Antoine and Winder.

CURVE DATA WEST SERVICE DRIVE

$\Delta = 27^{\circ}20'44''$	$\Delta = 7^{\circ}48'23''$	$\Delta = 57^{\circ}55'09''$
$D = 36^{\circ}00'00''$	$D = 20^{\circ}41'03.83''$	$D = 27^{\circ}46'27.35''$
$R = 159.16'$	$R = 277.00'$	$R = 206.29'$
$T = 38.72'$	$T = 18.90'$	$T = 114.16'$
$L = 75.96'$	$L = 37.74'$	$L = 208.54'$
$E = 4.64'$	$E = 0.64'$	$E = 29.48'$
$PC = 67+10.62$	$PC = 69+52.09$	$PC = 71+91.59$
$PI = 67+49.33$	$PI = 69+70.99$	$PI = 73+05.75$
$PT = 67+86.58$	$PT = 69+89.83$	$PT = 74+00.13$

Notes:
 Stations shown in brackets, thus (), refer to existing St. Survey Stationing.
 Bench Marks are on City of Detroit Datum.
 All street returns 15'R except as otherwise noted.

CURVE DATA S'BD. TO E'BD. TURNING RDWY.

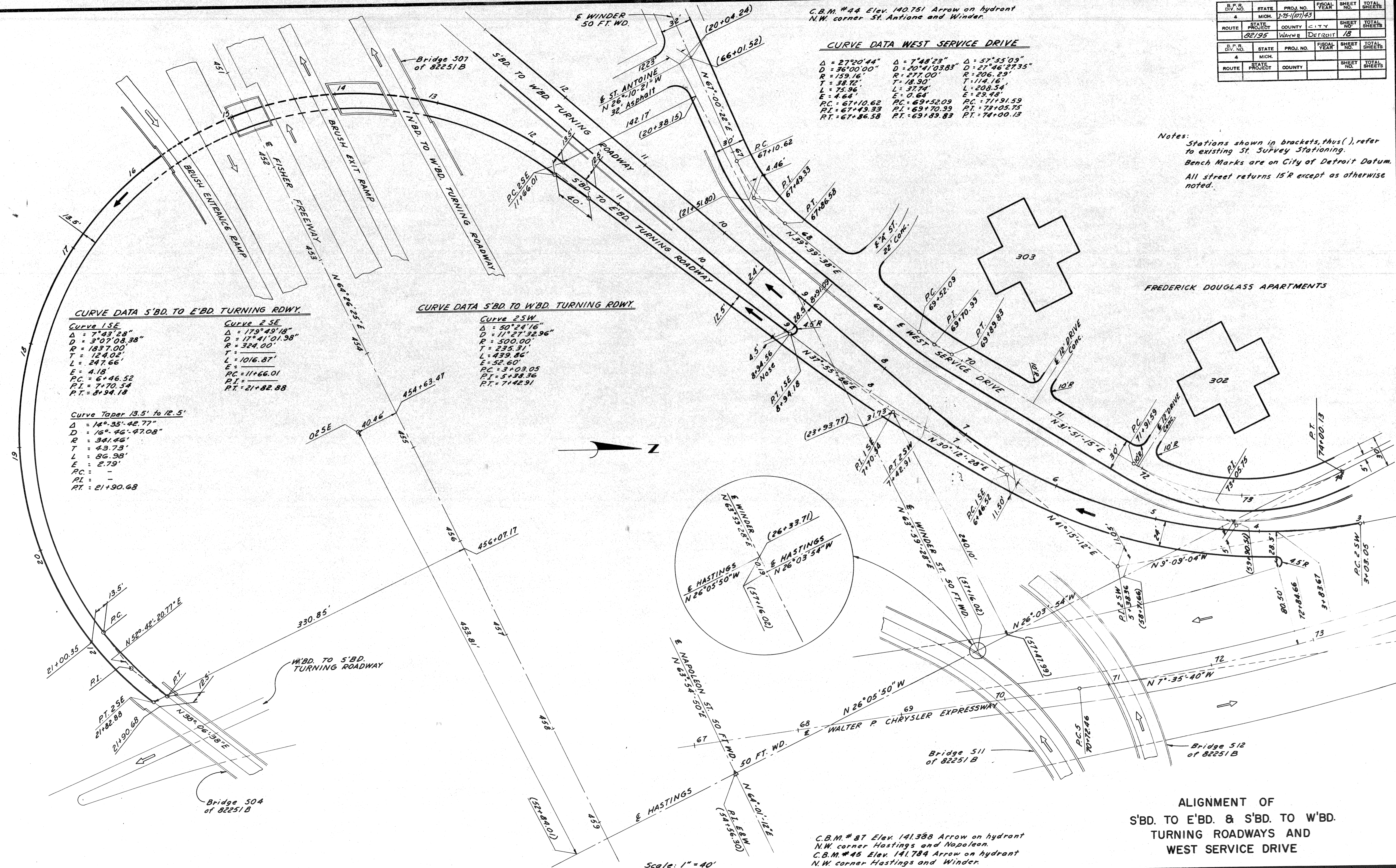
Curve 1SE	Curve 2SE
$\Delta = 7^{\circ}43'28''$	$\Delta = 179^{\circ}49'18''$
$D = 3^{\circ}07'08.38''$	$D = 17^{\circ}41'01.98''$
$R = 1897.00'$	$R = 324.00'$
$T = 124.02'$	$T = 1016.87'$
$L = 247.66'$	$L = 1016.87'$
$E = 4.18'$	$E = 11+66.01$
$PC = 6+46.52$	$PI = 11+66.01$
$PI = 7+70.54$	$PT = 21+82.88$
$PT = 8+94.18$	

Curve Taper 13.5' to 12.5'

$\Delta = 14^{\circ}35'42.77''$
$D = 16^{\circ}46'47.08''$
$R = 341.46'$
$T = 43.73'$
$L = 86.98'$
$E = 2.79'$
$PC = -$
$PI = -$
$PT = 21+90.68$

CURVE DATA S'BD. TO W'BD. TURNING RDWY.

Curve 2SW
$\Delta = 50^{\circ}24'16''$
$D = 11^{\circ}27'32.96''$
$R = 500.00'$
$T = 235.31'$
$L = 439.86'$
$E = 52.60'$
$PC = 3+03.05$
$PI = 5+38.36$
$PT = 7+42.91$

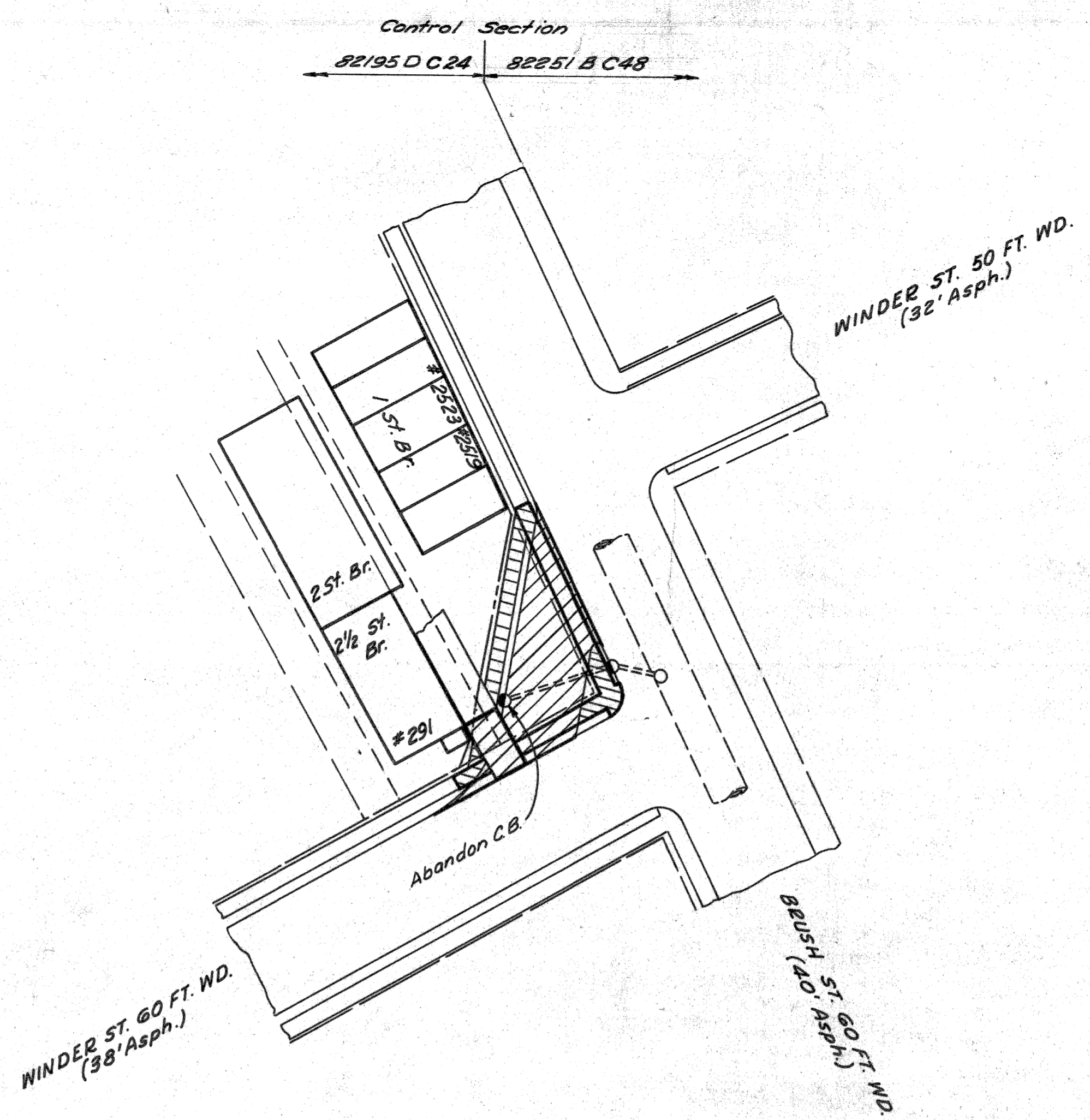
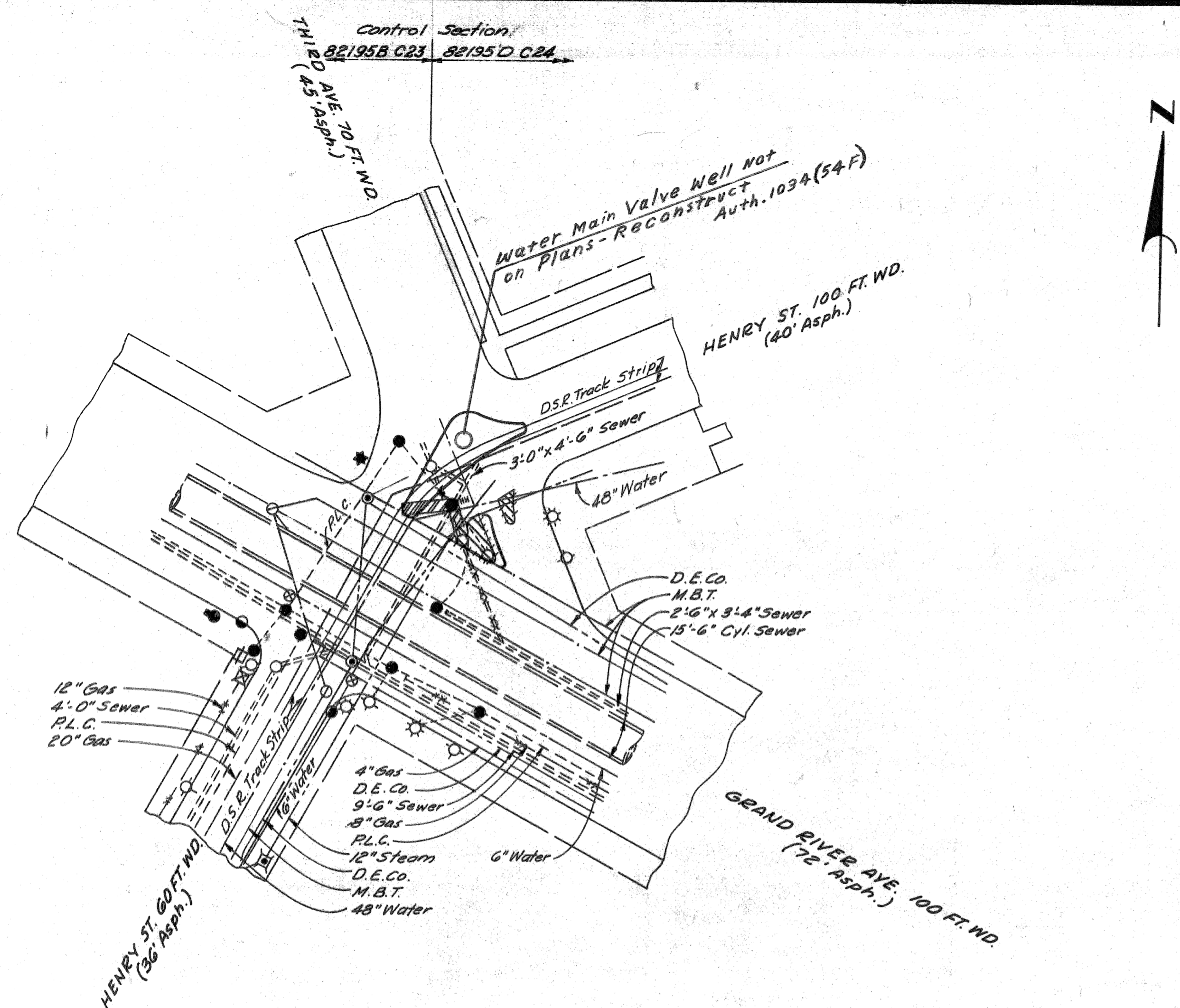


PLANS PREPARED BY
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEER'S OFFICE
 DIVISION OF HIGHWAYS AND EXPRESSWAYS

ALIGNMENT OF
 S'BD. TO E'BD. & S'BD. TO W'BD.
 TURNING ROADWAYS AND
 WEST SERVICE DRIVE

C.B.M. # 87 Elev. 141.388 Arrow on hydrant N.W. corner Hastings and Napoleon.
 C.B.M. # 45 Elev. 141.784 Arrow on hydrant N.W. corner Hastings and Winder.

DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	175-1107143		19	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195		WAYNE	DETROIT	19	
DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



PLAN
Scale: 1"=40'

- LEGEND**
- Removing Curb ----- hhhh
 - Removing Old Pav't. & Thick Slabs ----- [diagonal lines]
 - Removing Old Pav't. (Patching) & Pavement Replacement ----- [diagonal lines]
 - Removing Sidewalk & Thin Slabs ----- [diagonal lines]
 - Proposed Islands ----- [dashed line]
 - Proposed Walk ----- [solid line]

NOTE:
"Removing Bituminous Surface" is Not shown on this sheet

QUANTITIES

	82195B C23	82195D C24
Removing Old Pavement	- Sq. Yds.	279 Sq. Yds.
Removing Old Pavement (Patching)	14 Sq. Yds.	- Sq. Yds.
Removing D.S.R. Track Strip	5 Sq. Yds.	- Sq. Yds.
Removing Sidewalks	28 Sq. Yds.	83 Sq. Yds.
Removing Curb	75 Lin. Ft.	- Lin. Ft.
Pavement Replacement	19 Sq. Yds.	- Sq. Yds.
Abandoning Catch Basins (Incl. Backfill)	- Each	1 Each

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
DIVISION OF UTILITIES DEPT.
BUREAU OF HIGHWAYS AND EXPRESSWAYS

DATE
12-65
12-65
12-65
12-65
12-65

BY
C. A. Korman
C. A. Caffarano
G. V. Tompkins
Allen E. Payne

DESIGNED BY
CHECKED BY
APPROVED

MISCELLANEOUS REMOVAL ITEMS

FILE NO.	82195B C23	STATE	FEDERAL	SHEET
NO.		PROJECT	PROJECT	NO.
STENCIL		82195	175-1107143	19

NOTES

1. The removal of trees less than 8" in diameter and various posts, poles, and columns is incidental to the Contract.
2. "Removing Bituminous Surface" is Not shown on this Sheet.
3. For Typical Cross-Sections of Embankment and Backfill See Sheet # 8.
4. The location of the Underground Storage Tanks noted thus (*) is unknown.
5. Certain utility alterations are required within the limits of removal of entire pavement and sidewalk areas prior to their removal. Some of these areas are required to be open for local traffic. Therefore, quantities have been included for Removing Old Pavement (Patching), Concrete Pavement Patching, Patching Pavement with Bituminous Material, Aggregate Base and Temporary Concrete Sidewalk.

LEGEND

- Removing Curb ----- +++++
- Removing Old Pav't. & Thick Slabs ----- [diagonal lines]
- Removing Old Pav't. (Patching) & Pavement Replacement ----- [diagonal lines]
- Removing Sidewalk & Thin Slabs ----- [diagonal lines]
- Existing Foundation Wall ----- [solid line]
- Existing Basement ----- [dashed line]
- Removing Old Pav't. (Patching) & Concrete Pav't. Patching ----- [diagonal lines]
- Proposed Pavement ----- [dashed line]
- Proposed Sidewalk ----- [dashed line]
- Replacing Sidewalk ----- [diagonal lines]
- Existing Concrete Slab ----- [solid line]
- Removing Trees ----- R-5 Size

ITEMS

- Removing Trees 8" to 12" Dia. ----- 14 Each
- Removing Trees 13" to 24" Dia. ----- 5 Each
- * Removing Old Pavement ----- 1,505 Sq. Yds.
- * Removing Old Pavement (Patching) ----- 215 Sq. Yds.
- Removing Masonry & Conc. Structures ----- 21 Cu. Yds.
- Removing Sidewalks ----- 728 Sq. Yds.
- Removing D.S.R. Track Strip ----- 248 Sq. Yds.
- Removing Underground Storage Tanks Including Backfill ----- 2 Each
- Pavement Replacement ----- 106 Sq. Yds.
- Concrete Pavement Patching ----- 105 Sq. Yds.
- Patching Pavement with Bit. Material ----- 4 Tons
- Aggregate Base (Loose Measure) ----- 14 Cu. Yds.

QUANTITIES

ITEMS

- Temporary Concrete Sidewalk ----- 425 Sq. Ft.
- 4" Concrete Sidewalk ----- 120 Sq. Ft.
- Concrete Curb, Detail 2A ----- 35 Lin. Ft.
- Abandoning Catch Basins Incl. Backfill ----- 10 Each

QUANTITIES

EARTHWORK

- Select Clay Backfill (Comp. in Place) (To be obtained from Sh #25) ----- 21 Cu. Yds.
- * Includes Removal of Temporary Pavement

The following items and quantities are required for the restoration of areas indicated thus

- * Removing Old Pavement ----- 130 Sq. Yds.
- * Removing Masonry & Conc. Struct. ----- 4 Cu. Yds.
- * Replacing Sidewalks ----- 6 Sq. Yds.
- * Select Clay Backfill ----- 4 Cu. Yds.

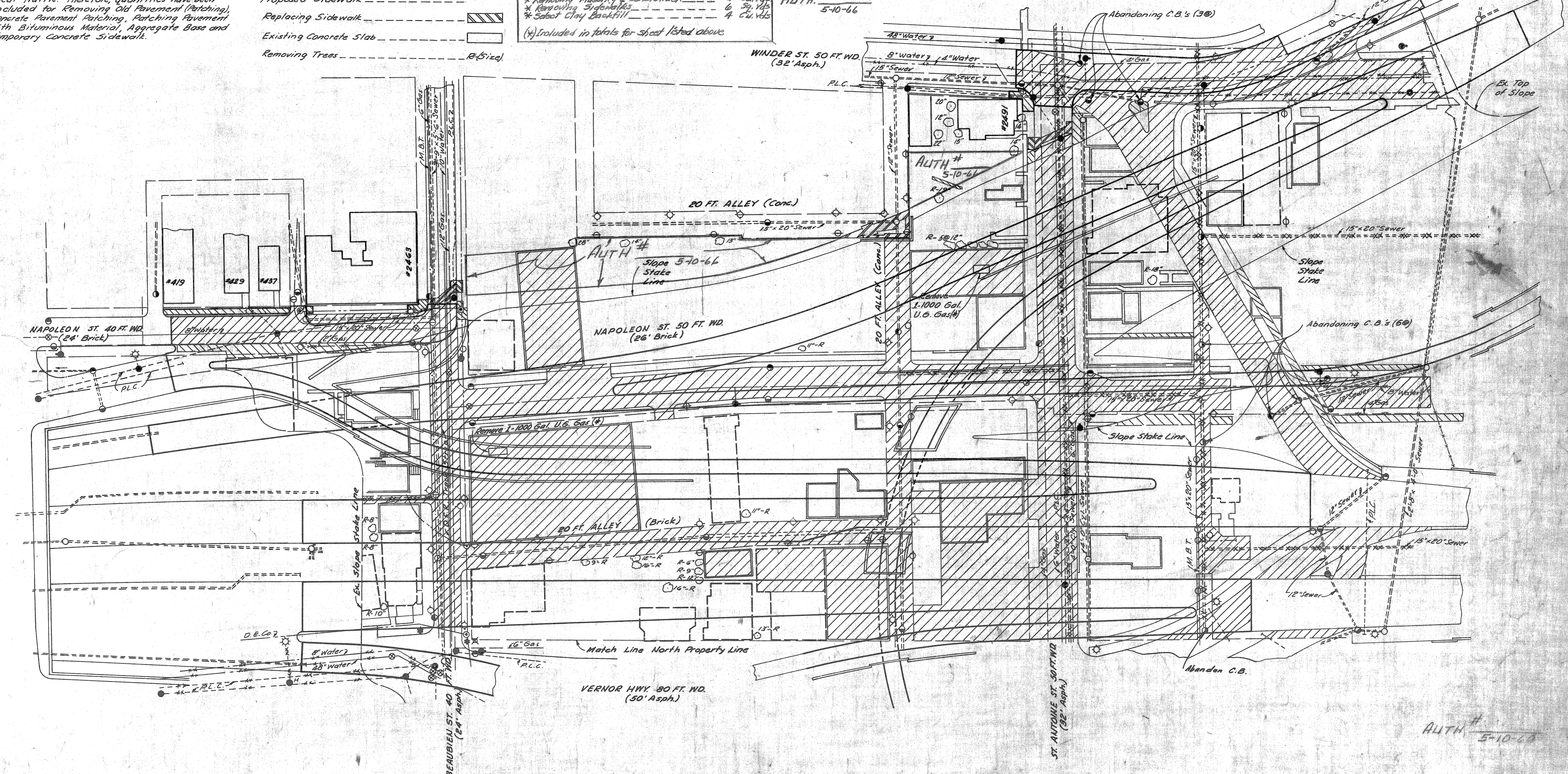
(*) Included in totals for sheet listed above

AUTH # 5-10-66

All Quantities This Sheet Control Section 82251B048

S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-15-1(107)43		20	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195		WAYNE	DETROIT	20	

S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS



AUTH # 5-10-66

REMOVAL ITEMS NORTH OF VERNOR HWY.

FILE NO. 82195B C23	STATE PROJECT 82195	FISCAL YEAR 1965	SHEET NO. 20
---------------------	---------------------	------------------	--------------

DESIGNED BY: G. D. MILLER
 DRAWN BY: G. D. MILLER
 CHECKED BY: M. E. KILGORE
 APPROVED: M. E. KILGORE

DATE: 12-60
 SCALE: AS SHOWN
 SHEET NO. 20
 TOTAL SHEETS 20

ITEMS	QUANTITIES
Removing Trees, 8" to 12" Dia.	10 Each
Removing Trees, 13" to 24" Dia.	19 Each
Removing Trees, 25" to 36" Dia.	4 Each
Removing Old Pavement	12,223 Sq. Yds.
Removing Old Pavement (Patching)	23 Sq. Yds.
Removing Masonry & Conc. Structures	41 Cu. Yds.
Removing Sidewalks	1013 Sq. Yds.
Removing D.S.R. Track Strip	124 Sq. Yds.
Removing U.G. Stor. Tanks Incl. Backfill	1 Each
Pavement Replacement	19 Sq. Yds.
Aggregate Base (Loose Measure)	5 Cu. Yds.
Patching Pav't with Bit. Material	2 Tons

ITEMS	QUANTITIES
4" Concrete Sidewalk	25 Sq. Ft.
Concrete Curb, Detail 2A	10 Lin. Ft.
Abandoning Manholes Incl. Backfill	2 Each
Abandoning Catch Basins Incl. Backfill	10 Each

EARTHWORK:
 Select Clay Backfill (Comp. in Place) --- 41 Cu. Yds.
 (To be obtained from Sh#25)

All Quantities This Sheet
 Control Section 8225/B.C.48

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-75/10743			
ROUTE	PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	WAYNE	DETROIT	21		

The following items and quantities are required for the restoration of areas indicated thus:

* Removing Old Pavement	459 Sq. Yds.
* Removing Masonry & Conc. Struct.	16 Cu. Yds.
* Select Clay Backfill	16 Cu. Yds.

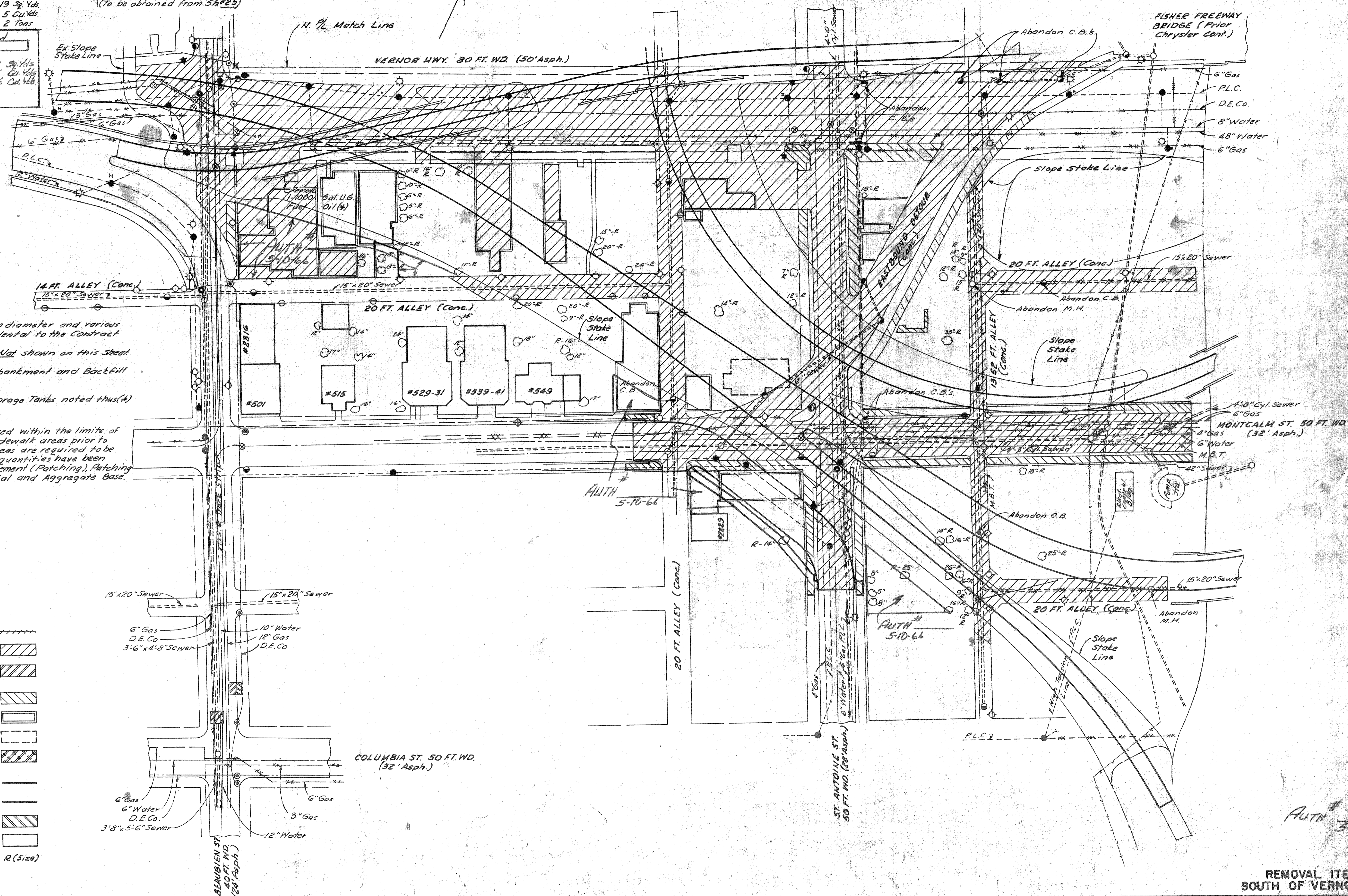
(*) Included in totals for sheet listed above

Auth # 5-10-66
 SOUTH SERVICE DRIVE

- NOTES**
- The removal of trees less than 8" in diameter and various posts, poles, and columns is incidental to the contract.
 - "Removing Bituminous Surface" is Not shown on this sheet.
 - For Typical Cross-Sections of Embankment and Backfill See Sheet #8.
 - The location of the Underground Storage Tanks noted thus (*) is unknown.
 - Certain utility alterations are required within the limits of removal of entire pavement and sidewalk areas prior to their removal. Some of these areas are required to be open for local traffic. Therefore quantities have been included for the Removing Old Pavement (Patching), Patching Pavement with Bituminous Material and Aggregate Base.

LEGEND

Removing Curb	+++++
Removing Old Pav't & Thick Slabs	▨
Removing Old Pav't (Patching) & Pavement Replacement	▧
Removing Sidewalk & Thin Slabs	▩
Existing Foundation Walls	▭
Existing Basement	▭
Removing Old Pav't (Patching) & Concrete Pav't Patching	▨
Proposed Pavement	---
Proposed Sidewalk	---
Replacing Sidewalk	▨
Existing Conc. Slab	▭
Removing Trees	R (Size)



REMOVAL ITEMS
 SOUTH OF VERNOR HWY.

PLANS PREPARED BY
 CITY OF DETROIT
 DIVISION OF PUBLIC WORKS
 615 CANTON ST., 5TH FLOOR
 BUREAU OF HIGHWAYS AND EXPRESSWAYS
 3-16-66

SOULG-SHARPE
 1965
 M.F. Kaban
 1965
 F.A. Carabian
 1965
 G.D. Wile
 1965
 G.D. Wile
 1965
 APPROVED:

QUANTITIES THIS SHEET
Control Section 82195 B C23

Items	Quantities
Class A Seeding	1.4 Acres
Class B Sodding	12,038 Sq. Yds.
Rye Seeding	0.5 Acres
Mulching	1.5 Tons
Chemical Fertilizer	868 Pounds
Class A Sodding	75 Sq. Yds.

EARTHWORK
Embankment to be obtained from Sh. # 30
Emb. + 25% ----- 3495 Cu. Yds.

NOTE:
The embankment quantity listed on this sheet is required to provide adequate drainage of areas occurring outside the limits of roadway excavations and/or embankments.

The following items and quantities are required for the restoration of areas indicated thus

* Class A Seeding	0.3 A.
* Rye Seeding	0.3 Acres
* Chemical Fertilizer	186 Pounds

(*) Included in totals for sheet listed above.

ALITH # 5-10-66

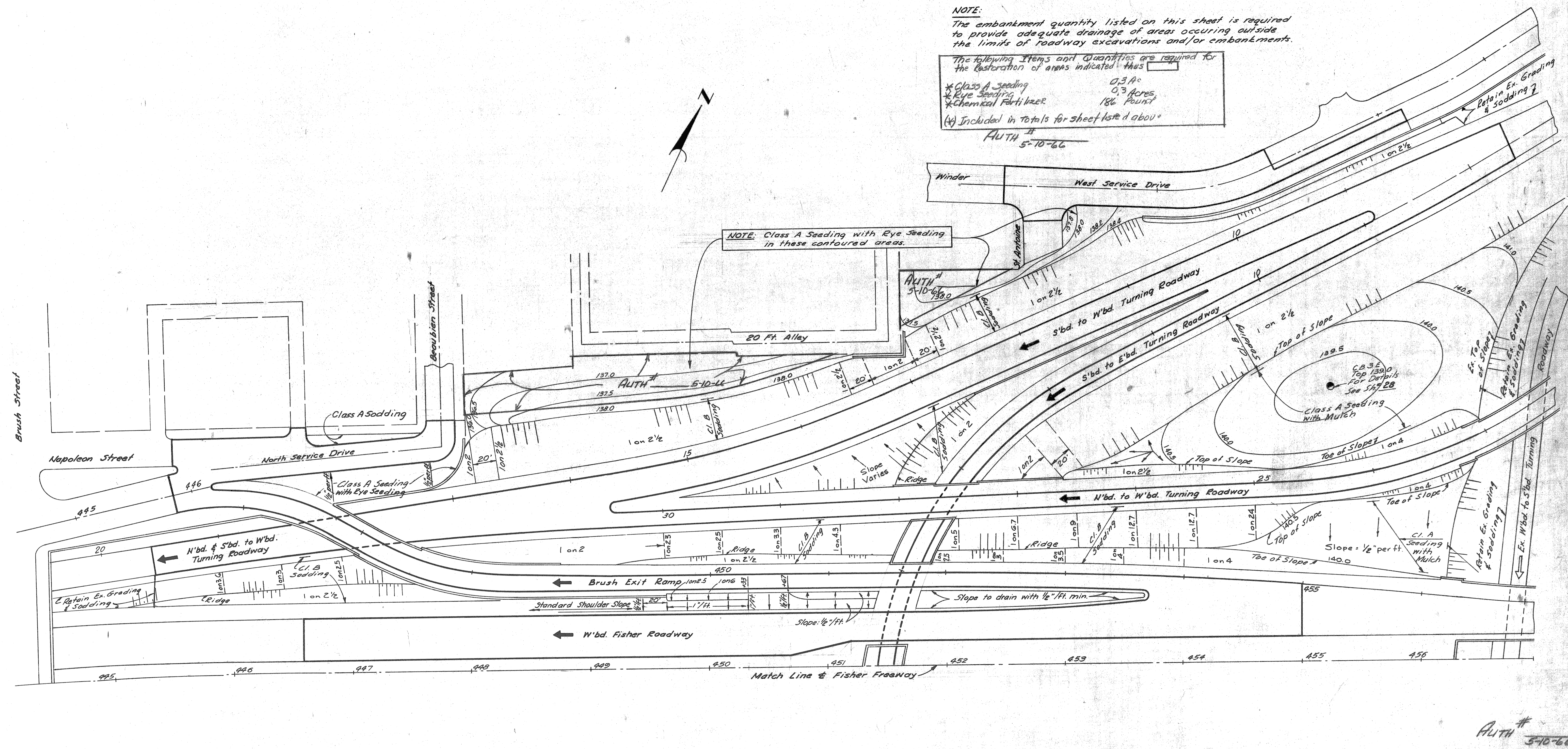
STATE	PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
MICH.	1-75(107)43	Wayne	Detroit	22	

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEER'S OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS.

DESIGNED BY
DRAWN BY
CHECKED BY
APPROVED BY

12-65
12-65
12-65
12-65
12-65

G. D. M. H.
M. F. Kaban
F. A. Callaghan
C. R. Hopkins
Allen E. Payne



NOTE: Class A Seeding with Eye Seeding in these contoured areas.

PLAN
Scale: 1"=40'

GRADING PLAN
NORTH OF & OF FISHER FREEWAY

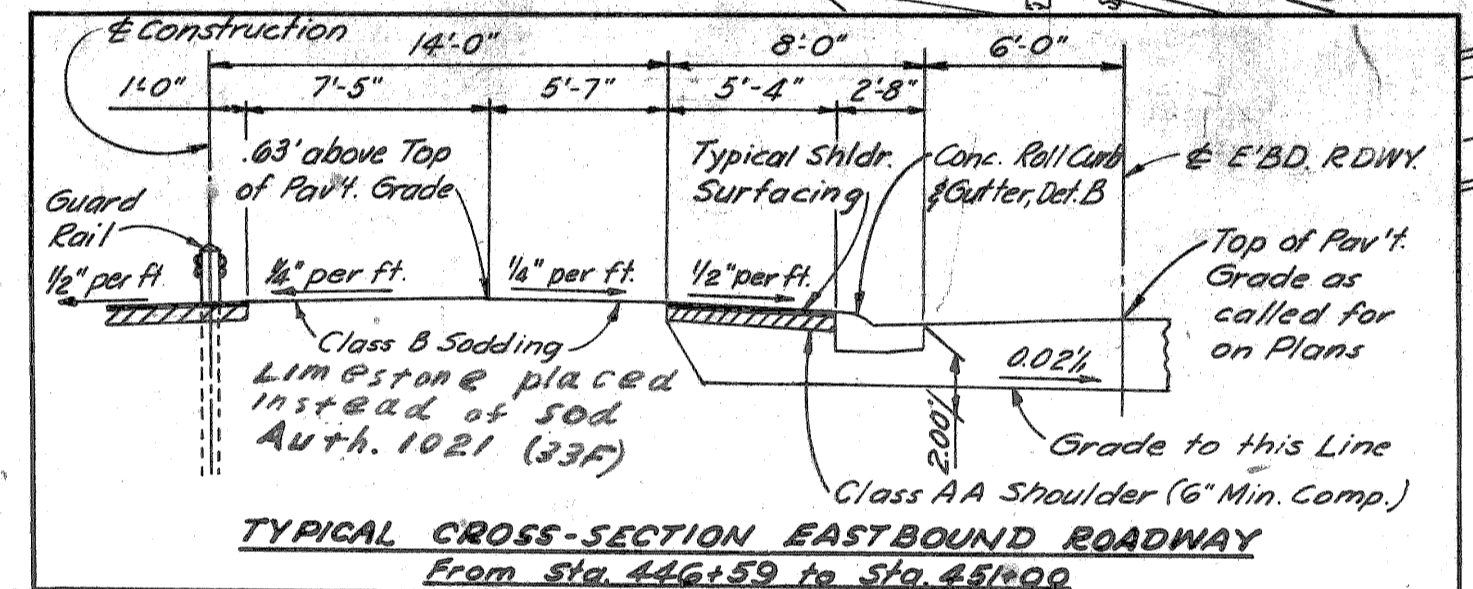
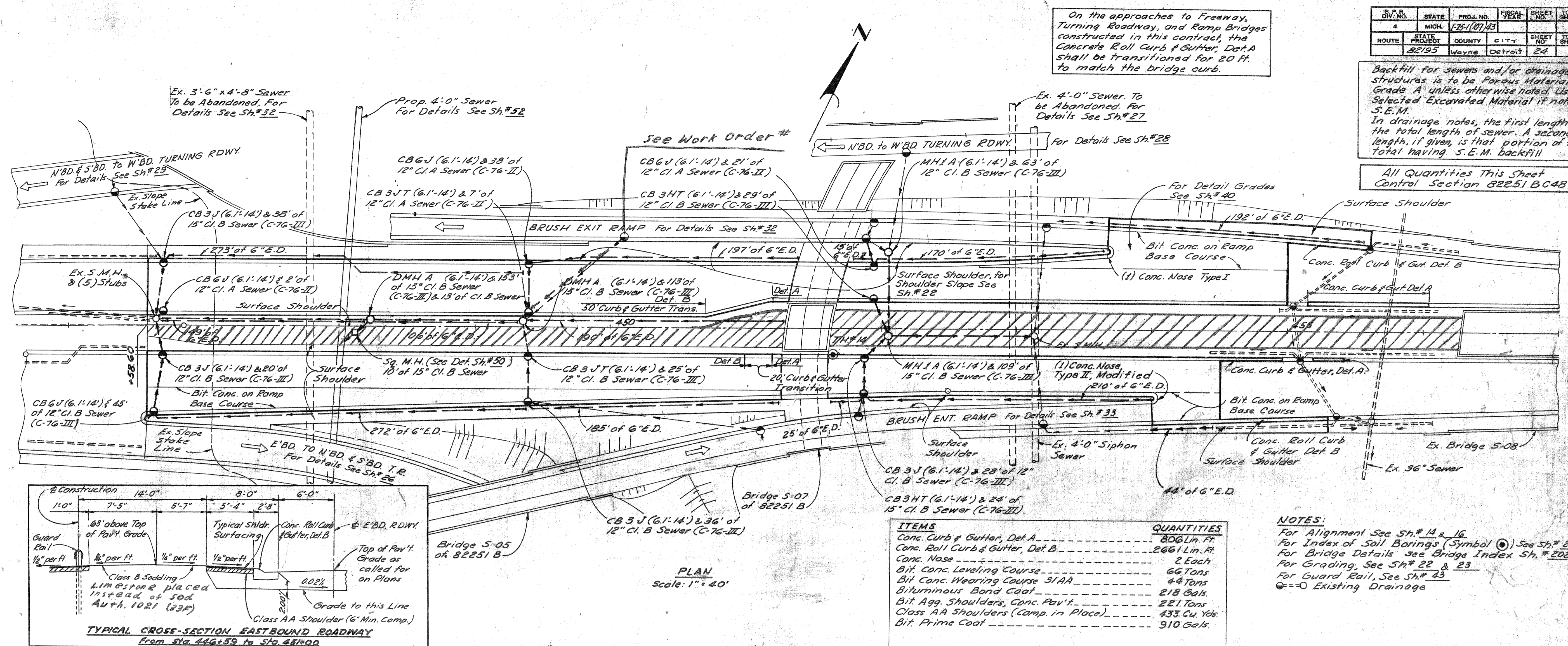
FILE NO.	STATE	PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195B C23	MICH.	1-75(107)43	Wayne	Detroit	22	

ALITH # 5-10-66

D.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MI	82195	1975	24	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	Wayne	Detroit		24	

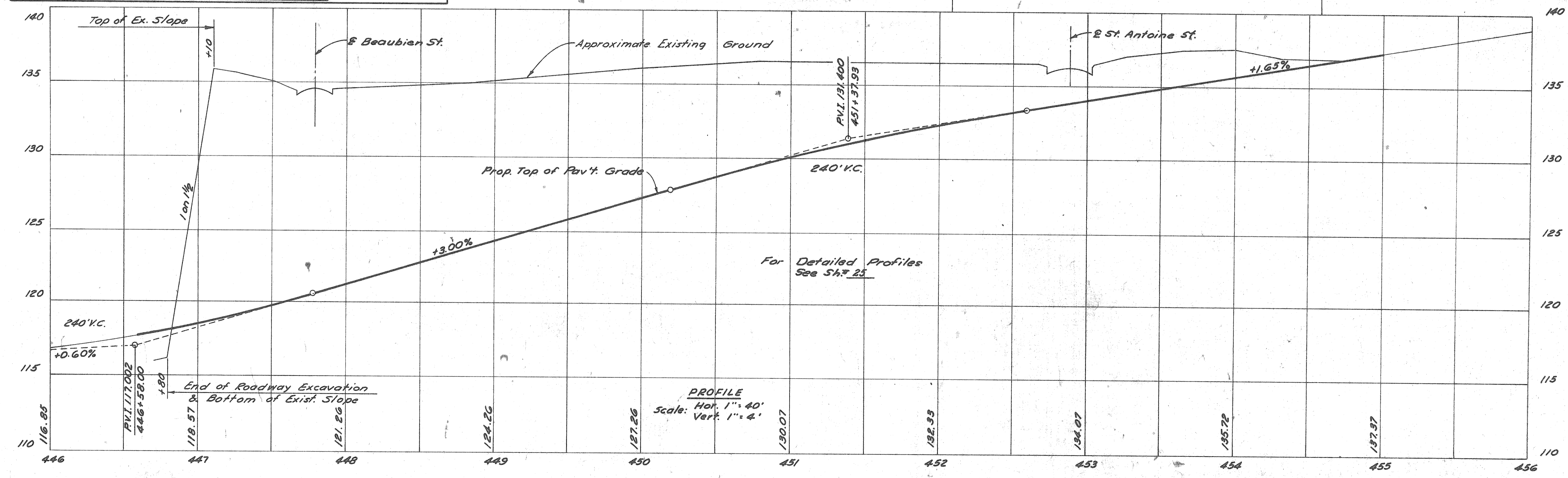
Backfill for sewers and/or drainage structures is to be Porous Material Grade A unless otherwise noted. Use Selected Excavated Material if noted S.E.M.
In drainage notes, the first length is the total length of sewer. A second length, if given, is that portion of the total having S.E.M. backfill.

All Quantities This Sheet Control Section 82251 BC48



ITEMS	QUANTITIES
Conc. Curb & Gutter, Det. A	806 Lin. Ft.
Conc. Roll Curb & Gutter, Det. B	2661 Lin. Ft.
Conc. Nose	2 Each
Bit. Conc. Leveling Course	66 Tons
Bit. Conc. Wearing Course 3/AA	44 Tons
Bituminous Bond Coat	218 Gals.
Bit. Agg. Shoulders, Conc. Pav't.	221 Tons
Class AA Shoulders (Comp. in Place)	433 Cu. Yds.
Bit. Prime Coat	910 Gals.

NOTES:
For Alignment See Sh.# 14 & 16
For Index of Soil Borings (Symbol ⊙) See Sh.# 202
For Bridge Details see Bridge Index Sh.# 202
For Grading, See Sh.# 22 & 23
For Guard Rail, See Sh.# 43
⊙= Existing Drainage



FREWAY ITEM SHEET

FILE NO.	82195 B C23	STATE PROJECT	15110745	SHEET NO.	24
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CD BY
 OF DETROIT
 AT THE PUBLIC WORKS
 DIVISION
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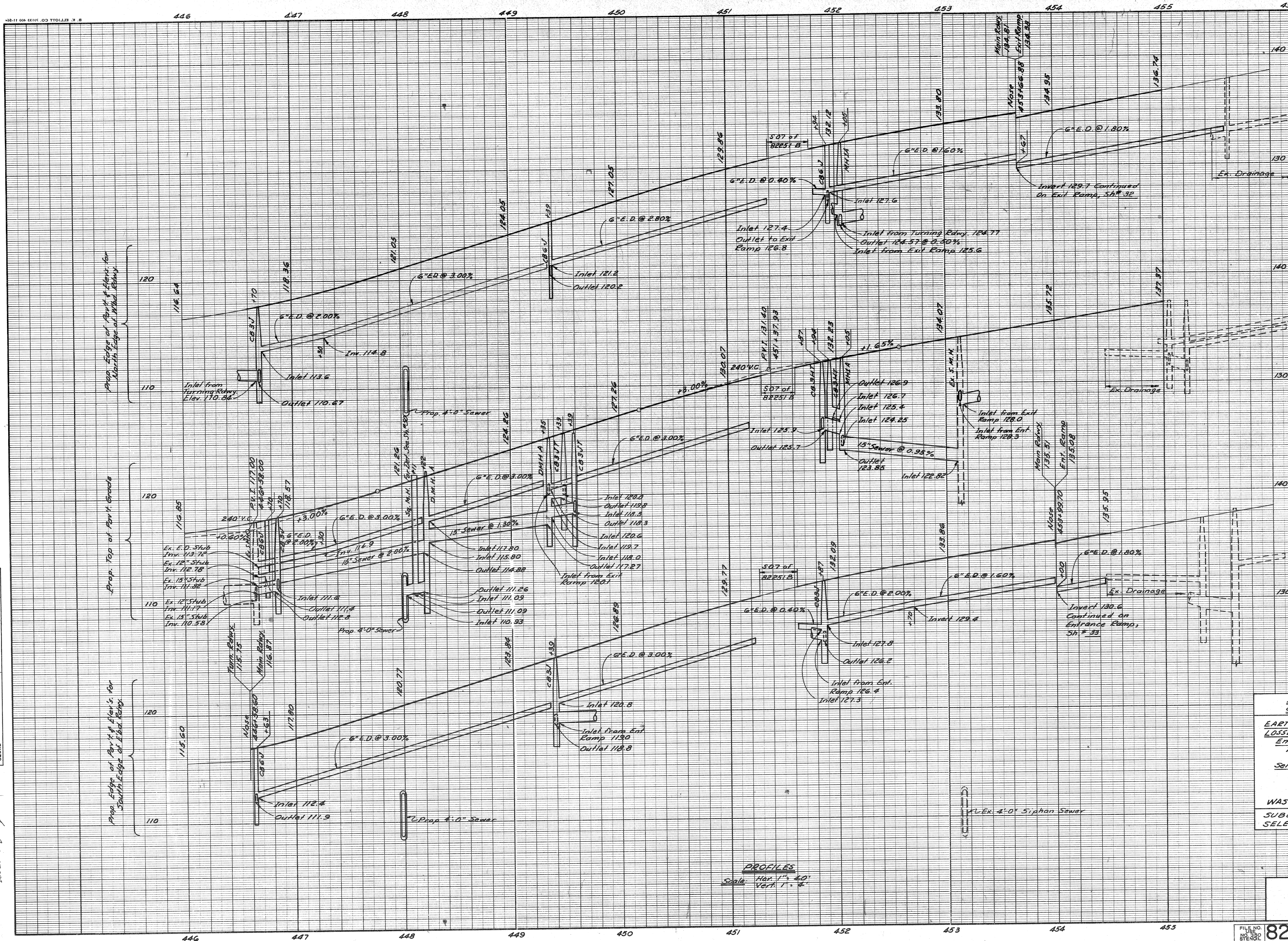
OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PROFILE PLOTTED		
PROFILES CHECKED		
PRELIMINARY GRADE		
FEDERAL INSPECTION		

OPERATION	BY	DATE
PRELIMINARY P.C.W. CHECKED		
FINAL DESIGN CHECKED		
TRACED		
FINAL P.C.W. CHECK		
QUANTITIES CHECKED		
SQUAD		

12-65
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12-65
12-65

G.D. M. 1/2
C.R. Hopkins
C.R. Carlsberg
B. U. Temporelli
Allen S. Casey

R.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-75/107/43		25	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82/95	WAYNE	DETROIT		25	



ALL WORK THIS SHEET CONTROL SECTION 82251 B C 48

EARTH EXCAVATION	33,505 Cu. Yds.
LOSSES	
Embankment + 25%	19 Cu. Yds.
This Sheet	104 Cu. Yds.
Selected Clay Backfill (C.I.P.)	
Sh. #20	21 Cu. Yds.
Sh. #21	41 Cu. Yds.
Total Losses	185 Cu. Yds.
WASTE	33,320 Cu. Yds.
SUBBASE (Comp. in Place)	3130 Cu. Yds.
SELECTED SUBBASE 24A(C.I.P.)	741 Cu. Yds.

PROFILES
Scale: Hor. 1" = 40'
Vert. 1" = 4'

FISHER FREEWAY PROFILES

FILE NO.	82195 B C 23	STATE PROJECT	82/95	FISCAL YEAR	1-75/107/43	SHEET NO.	25	TOTAL SHEETS	
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R.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	175 (10743)		26	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195		WAYNE	DETROIT	26	

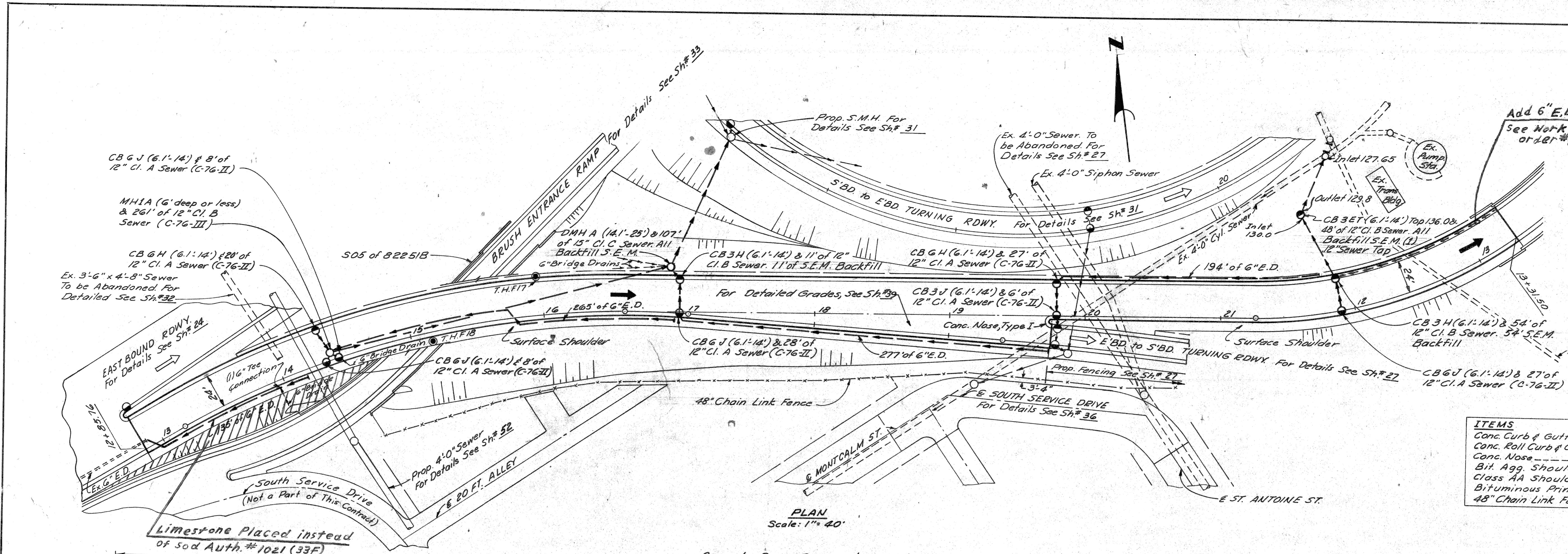
Backfill for sewers and/or drainage structures is to be Porous Material Grade A unless otherwise noted. Use Selected Excavated Material if noted S.E.M.

In drainage notes, the first length is the total length of sewer. A second length, if given, is that portion of the total having S.E.M. backfill.

All Quantities This Sheet Control Section 82251 B C48

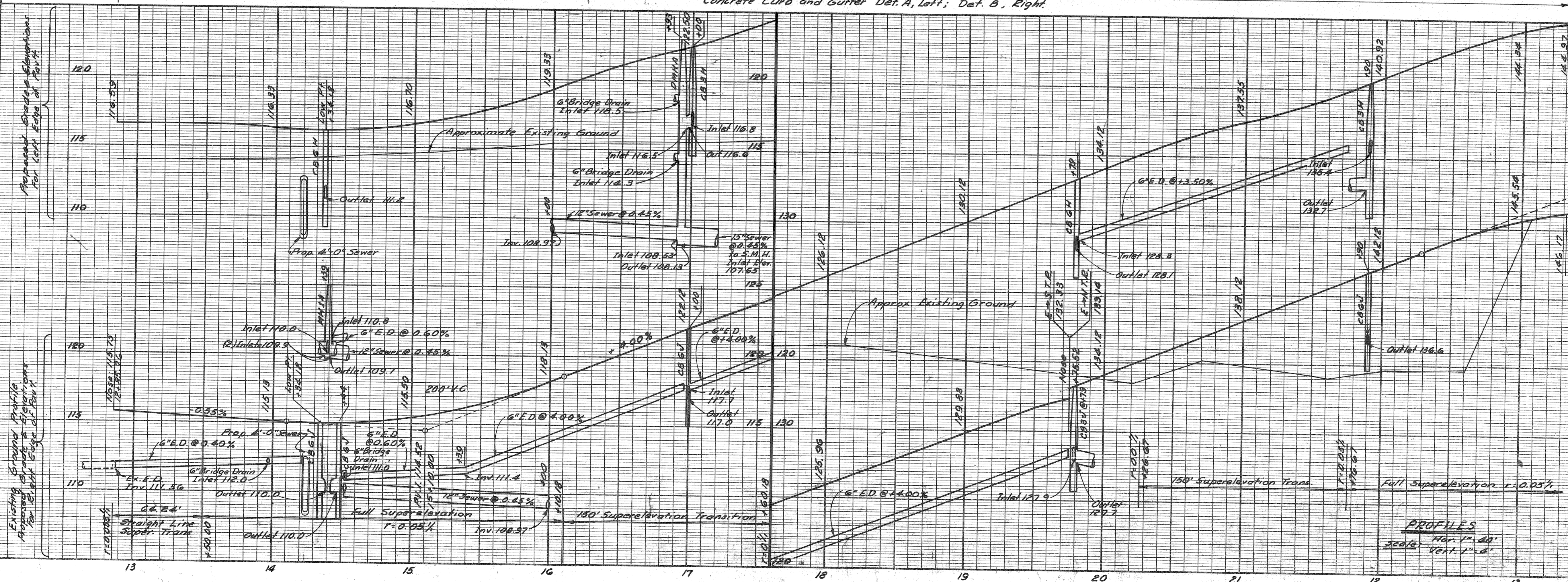
NOTES:
 For Alignment See Sh# 14, 16 & 17
 For Index of Soil Borings (Symbol) See Sh# 202
 For Bridge Details see Bridge Index Sh# 202
 For Grading See Sh# 23
 For Guard Rail See Sh# 43

ITEMS	QUANTITIES
Conc. Curb & Gutter, Det. A	1045 Lin. Ft.
Conc. Roll Curb & Gutter, Det. B	1050 Lin. Ft.
Conc. Nose	1 Each
Bit. Agg. Shoulders, Conc. Pav't	75 Tons
Class AA Shoulders (Comp. in Place)	147 Cu. Yds.
Bituminous Prime Coat	308 Gals.
48" Chain Link Fence	517 Lin. Ft.



PLAN Scale: 1" = 40'

Concrete Ramp Pavement, 10" Uniform (Reinf.)
 Concrete Curb and Gutter Det. A, Left; Det. B, Right



PROFILES
 Hor. 1" = 40'
 Vert. 1" = 4'

EARTH EXCAVATION	26,386 Cu. Yds.
LOSSES	
Embankment + 23%	This Sheet - 4170 Cu. Yds.
Sh. 736 - 184 Cu. Yds.	
Total Losses	4254 Cu. Yds.
WASTE	22,132 Cu. Yds.
SUBBASE (Comp. in Place)	1991 Cu. Yds.
SELECTED SUBBASE 24 (C.I.P.)	402 Cu. Yds.

PLAN AND PROFILE
 E'BD. to N'BD. & S'BD., and E'BD. to N'BD.
 TURNING ROADWAY

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

OPERATION	DATE	BY
PLAN PLOTTED	12-65	C.A.L.A.R.I.N.G.
PLAN CHECKED	12-65	
PROFILE CHECKED	12-65	
PRELIMINARY GRADE	12-65	
FEDERAL INSPECTION		

Existing Ground Profile Proposed Grade & Elevation For East Edge of Right of Way

Approved Grade & Elevation For East Edge of Right of Way

G.D. Mize
 M.L. Robson
 C.P. Hopkins
 Allen E. Ryan

D.P. No.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-15-1(07)43		28	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	WAYNE	DETROIT		28	

On the approaches to Freeway, Turning Roadway, and Ramp Bridges constructed in this contract, the Concrete Roll Curb & Gutter, Det. A shall be transitioned for 20 ft. to match the bridge curb.

Backfill for sewers and/or drainage structures is to be Porous Material Grade A unless otherwise noted. Use Selected Excavated Material if noted S.E.M. In drainage notes, the first length is the total length of sewer. A second length, if given, is that portion of the total having S.E.M. backfill.

All Quantities This Sheet Control Section 82251 B C48

NOTES:
 For Alignment See Sh.# 16
 For Index of Soil Borings (Symbol ⊙) See Sh.# 202
 For Bridge Details see Bridge Index Sh.# 202
 For Grading, See Sh.# 22
 For Guard Rail, See Sh.# 43

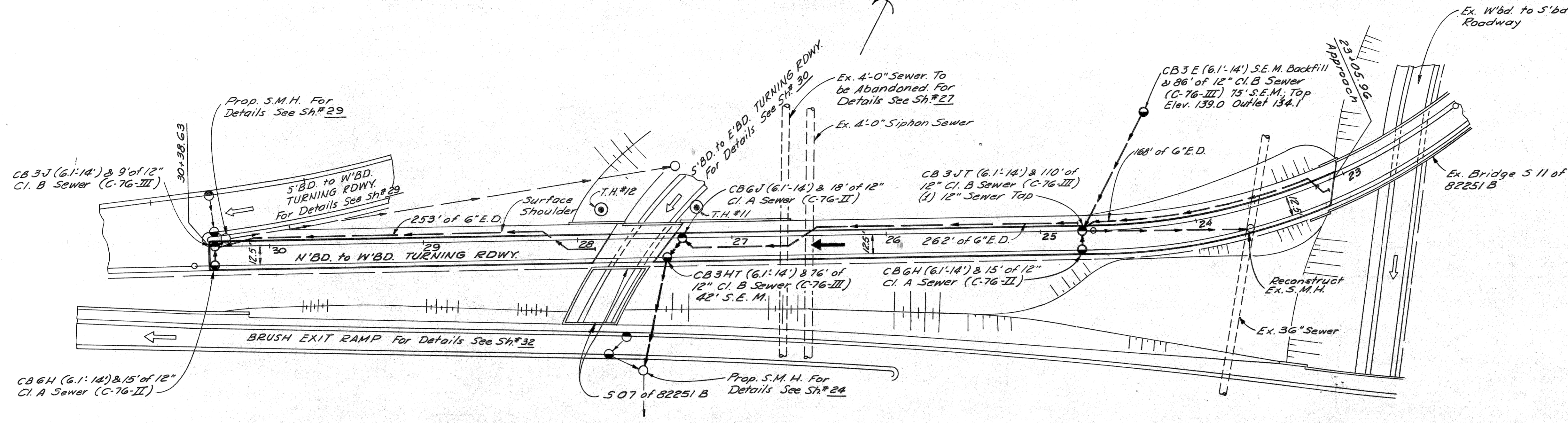
ITEMS	QUANTITIES
Conc. Curb & Gutter, Det. A	691 Lin. Ft.
Conc. Roll Curb & Gutter, Det. B	693 Lin. Ft.
Bit. Agg. Shoulders, Conc. Pavt.	49 Tons
Class AA Shoulders (Comp. in Place)	95 Cu. Yds.
Bituminous Prime Coat	200 Gals.

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

OPERATION	DATE	BY
PLANS REVISION		
PLANS REVISION		
PLANS REVISION		
PLANS REVISION		

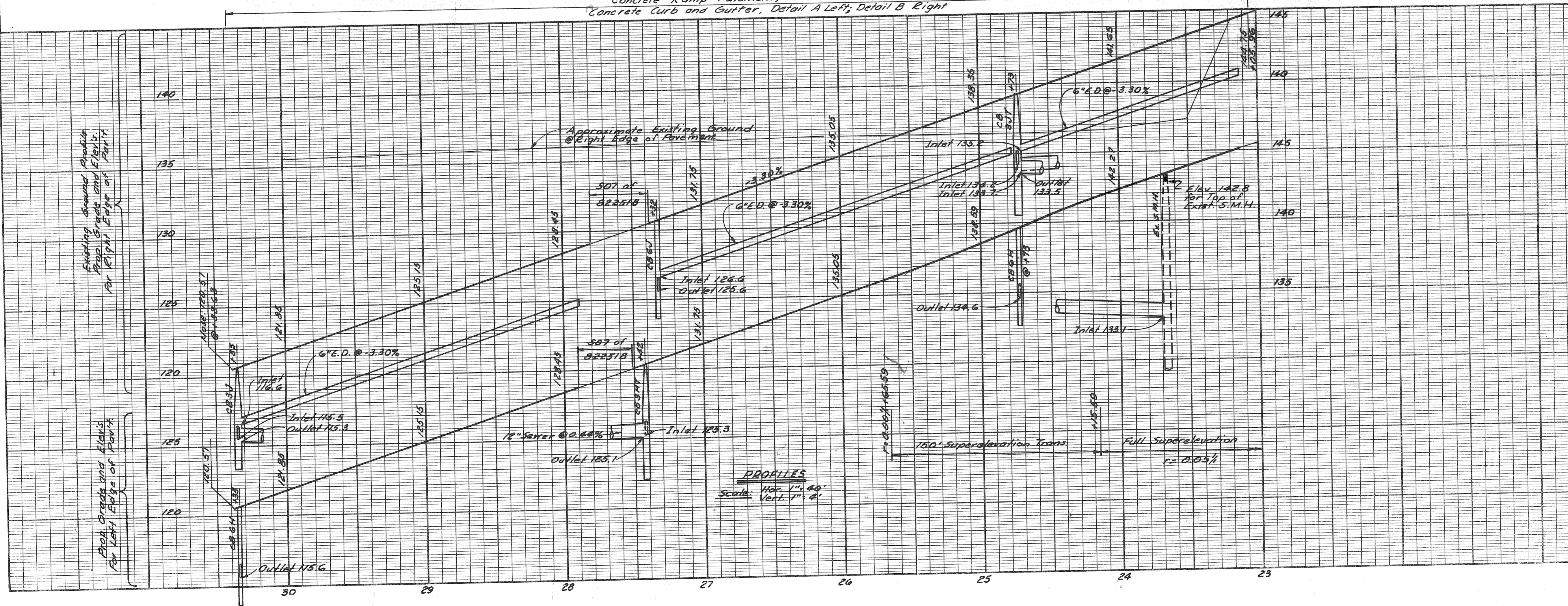
OPERATION	DATE	BY
SURVEYED		
PLAN PLOTTED		
PROFILE PLOTTED		
PRELIMINARY DATE		
FEDERAL INSPECTION		

G.D. M.I.E.
 M.F. Kobran
 S.A. Callabiano
 B.A. Terzaghi
 Allen E. / sign



PLAN
 Scale: 1" = 40'

Concrete Ramp Pavement, 10" Uniform (Reinf.)
 Concrete Curb and Gutter, Detail A Left; Detail B Right



PROFILES
 Scale: Hor. 1" = 40'
 Vert. 1" = 4'

EARTH EXCAVATION	5,912 Cu. Yds.
LOSSES	
Embankment +25%	1,333 Cu. Yds.
This Sheet	4,579 Cu. Yds.
WASTE	
SUBBASE (Comp. in Place)	886 Cu. Yds.
SELECTED SUBBASE 24 A (C.I.P.)	140 Cu. Yds.

PLAN AND PROFILE
 N'BD. TO W'BD.
 TURNING ROADWAY

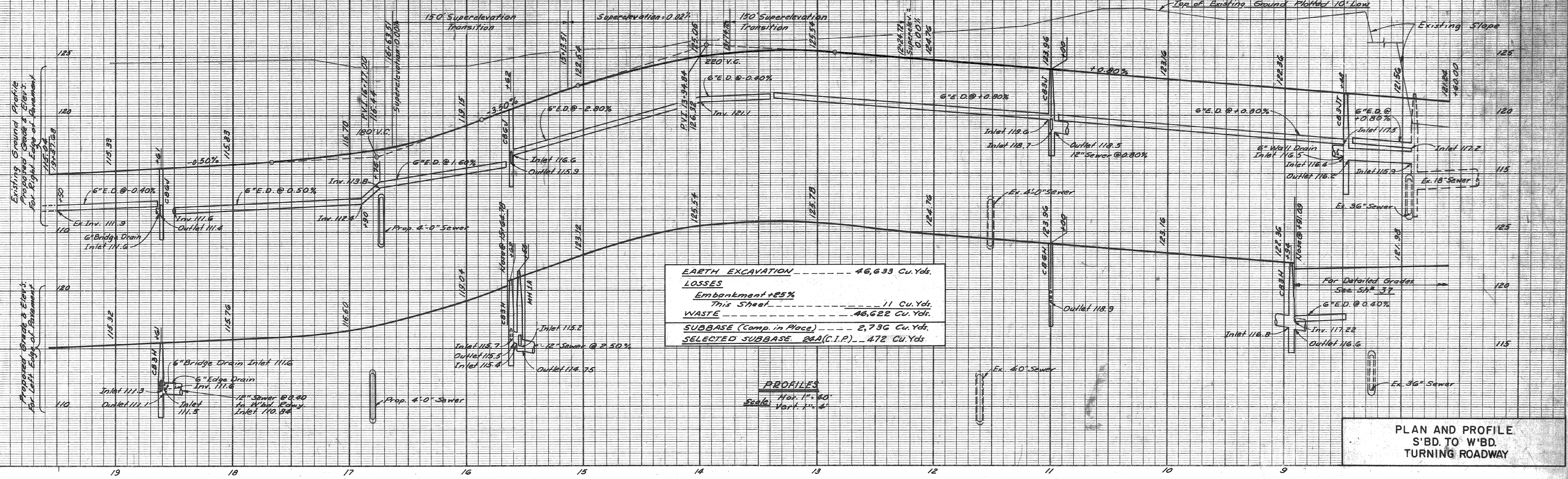
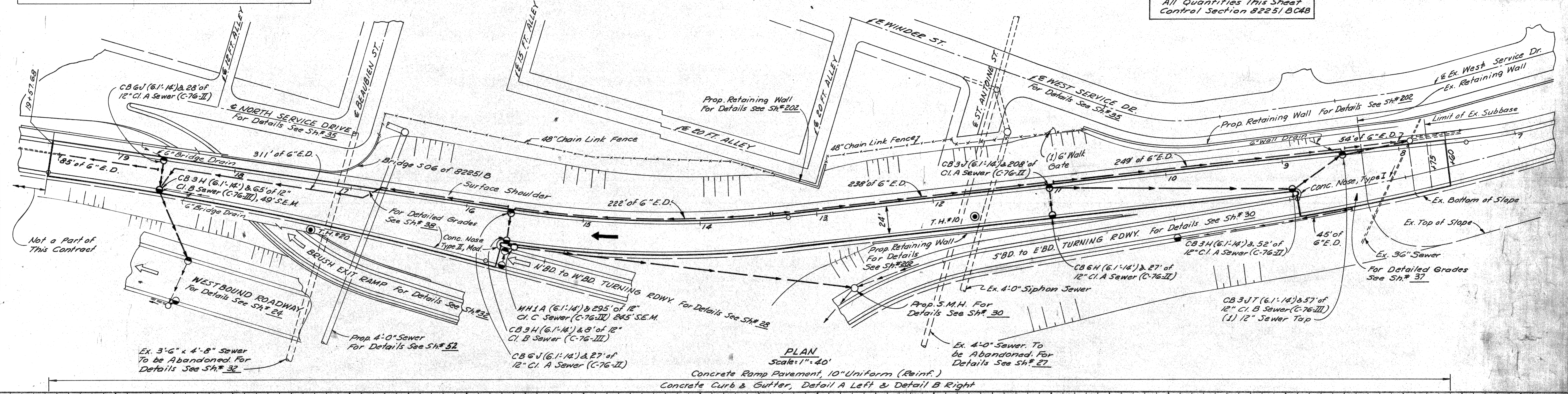
ITEMS	QUANTITIES
Conc. Curb & Gutter, Det. A	1206 Lin. Ft.
Conc. Roll Curb & Gutter, Det. B	1198 Lin. Ft.
Conc. Nose	2 Each
Bit. Agg. Shoulders, Conc. Pavt.	93 Tons
Class AA Shoulders (Comp. in Place)	182 Cu. Yds.
Bituminous Prime Coat	382 Gals.
48" Chain Link Fence	584 Lin. Ft.
6" Walk Gate for 48" Chain Link Fence	1 Each

NOTES:
 For Alignment See Sh# 14, 16 & 18
 For Index of Soil Borings (Symbol ©) See Sh# 202
 For Bridge Details See Bridge Index Sh# 202
 For Grading See Sh# 22
 For Guard Rail See Sh# 43

Backfill for sewers and/or drainage structures is to be Perous Material Grade A unless otherwise noted. Use Selected Excavated Material if noted S.E.M.
 In drainage notes the first length is the total length of the sewer. A second length, if given, is that portion of the total having S.E.M. backfill

All Quantities This Sheet Control Section 82251 B/C4B

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	175-1(07)43		29	



EARTH EXCAVATION	46,633 Cu. Yds.
LOSSES	
Embankment +25%	11 Cu. Yds.
WASTE	46,622 Cu. Yds.
SUBBASE (Comp. in Place)	2,736 Cu. Yds.
SELECTED SUBBASE 2BA(C.I.P.)	472 Cu. Yds.

PLAN AND PROFILE
 S'BD. TO W'BD.
 TURNING ROADWAY

DATE	BY	OPERATION
12-65	CAITAN VAND	PRELIMINARY GRADE CHECKED
12-65		FINAL DESIGN CHECKED
12-65		PROFILES CHECKED
12-65		QUANTITIES CHECKED
12-65		QUANTITIES CHECKED
12-65		QUANTITIES CHECKED

DATE	BY	OPERATION
12-65	CAITAN VAND	PLAN PLOTTED
12-65		PROFILES CHECKED
12-65		PROFILES CHECKED
12-65		PRELIMINARY GRADE
12-65		GRADE INSPECTION
12-65		FEDERAL INSPECTION

G.D. Mills
 M.F. Koban
 F.A. Calabro
 B.V. Tompkins
 Allan E. Perry

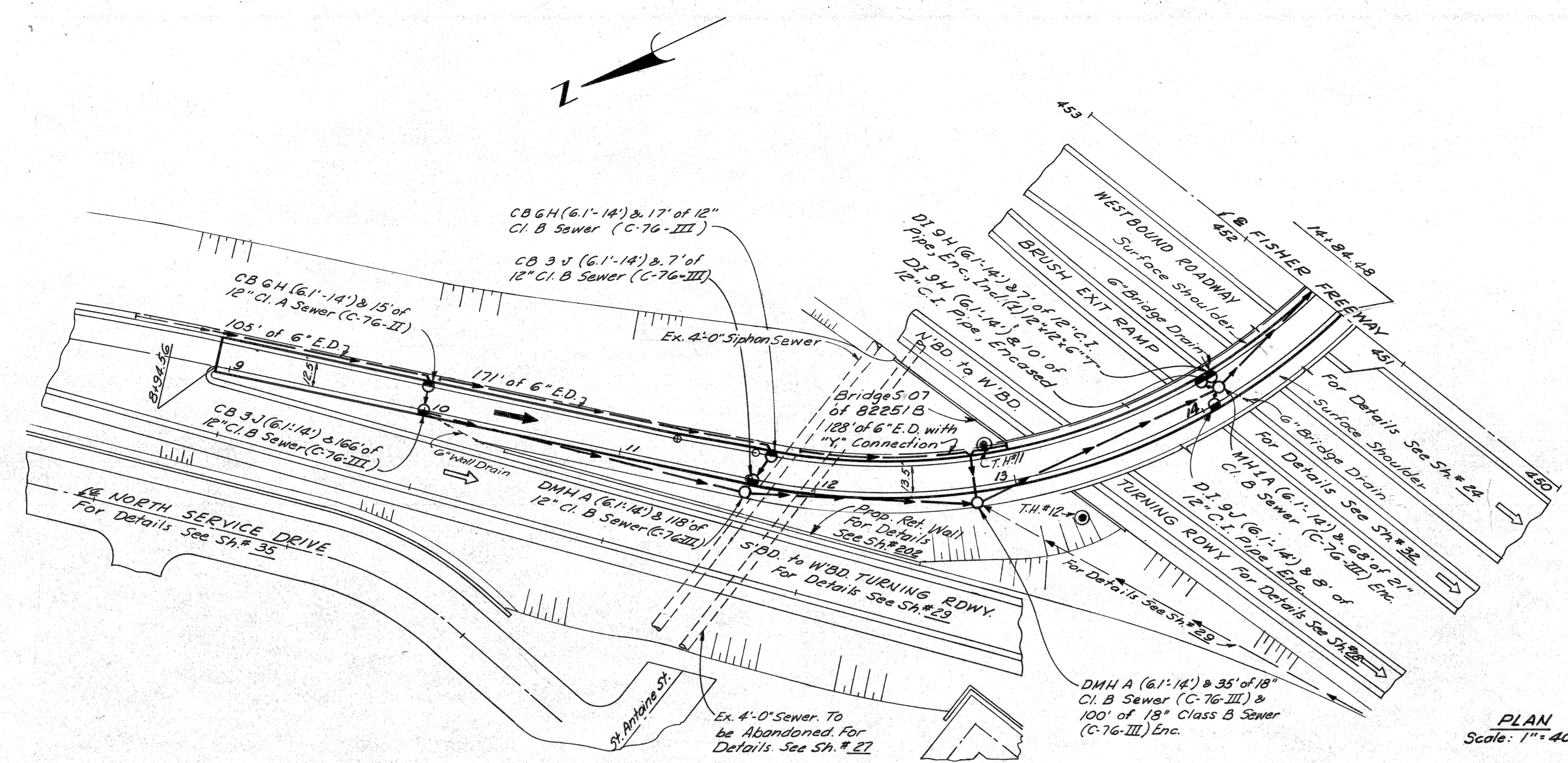
DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-75-1(107)43		30	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	WAYNE	DETROIT		30	

Backfill for sewers and/or drainage structures is to be Porous Material Grade A unless otherwise noted. Use Selected Excavated Material if noted S.E.M.
In drainage notes, the first length is the total length of sewer. A second length, if given, is that portion of the total having S.E.M. backfill.

All Quantities This Sheet Control Section 82251 B C48

NOTES:
For Alignment See Sh.# 18
For Index of Soil Borings (Symbol ⊙) See Sh.# 202
For Bridge Details see Bridge Index Sh.# 202
For Grading, See Sh.# 22
For Guard Rail, See Sh.# 43

ITEMS	QUANTITIES
Conc. Curb & Gutter, Det. A	579 Lin. Ft.
Conc. Roll Gurb & Gutter, Det. B	592 Lin. Ft.
Bit. Agg. Shoulders, Conc. Pav't.	49 Tons
Class AA Shoulders (Comp. in Place)	95 Cu. Yds.
Bituminous Prime Coat	200 Gals.



PLAN
Scale: 1" = 40'

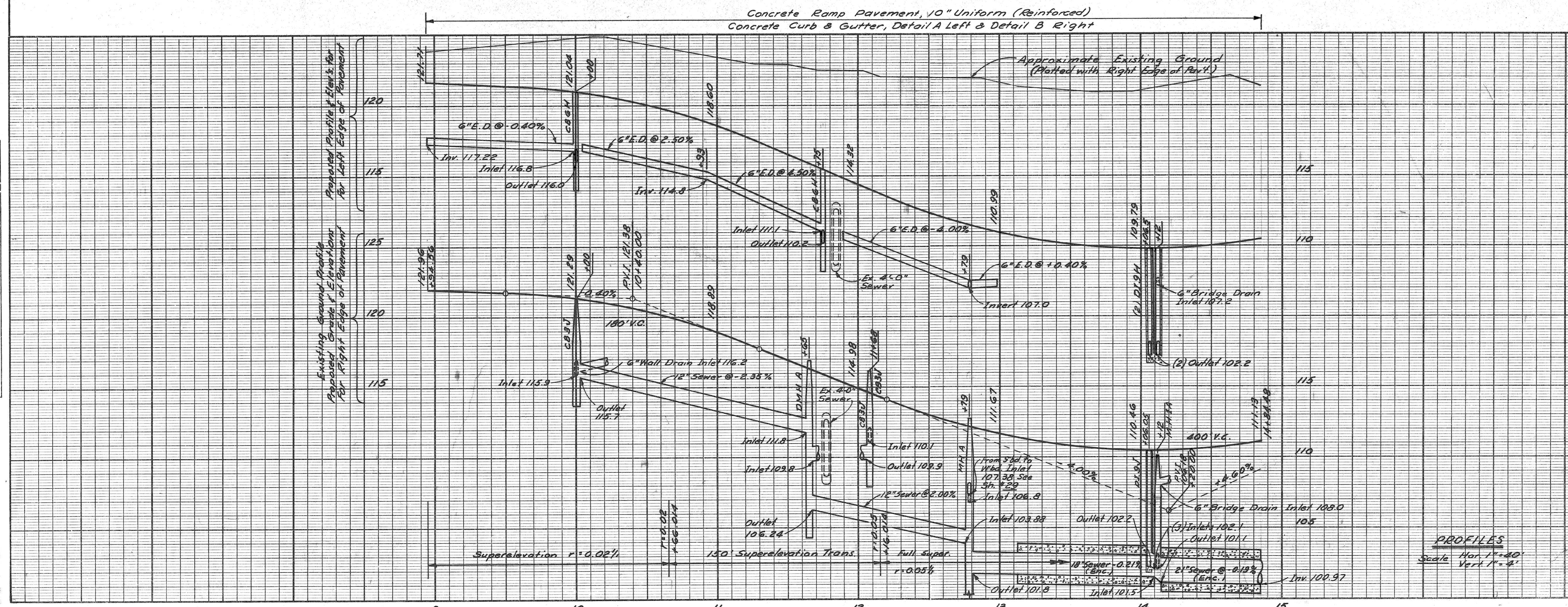
OPERATION	DATE	BY
PRELIMINARY DESIGN CHECKED		
FINAL DESIGN CHECKED		
FINAL PLOTTED		
FINAL Q. W. CHECK		
QUANTITIES CHECKED		
SOUND		

PREPARED BY
DATE

OPERATION	DATE	BY
SURVEYED		
PLAN PLOTTED		
PROFILE PLOTTED		
PRELIMINARY GRADE		
GRADE INSPECTION		
FEDERAL INSPECTION		

12-65
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G. D. M. H.
B. J. Temporelli
F. A. Calabro
C. E. Hopkins
Allen & Meyer



EARTH EXCAVATION	29,049 Cu. Yds.
LOSSES	
Embankment + 25%	
This Sheet	28
Sh.# 22	3495
Sh.# 23	5874
Total Losses	9,397 Cu. Yds.
WASTE	19,652 Cu. Yds.
SUBBASE (Comp. in Place)	1047 Cu. Yds.
SELECTED SUBBASE 2A A (C.I.P.)	124 Cu. Yds.

PROFILES
Scale: Hor. 1" = 40'
Vert. 1" = 4'

PLAN AND PROFILE
S'BD. TO E'BD. TURNING ROADWAY
STA. 8+94.56 TO STA. 14+84.48

FILE NO.	82195 B C23	STATE PROJECT	WAYNE	FEDERAL PROJECT	1-75-1(107)43	SHEET NO.	30
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R.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	175-1(107)A3			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195		WAYNE	DETROIT	31	

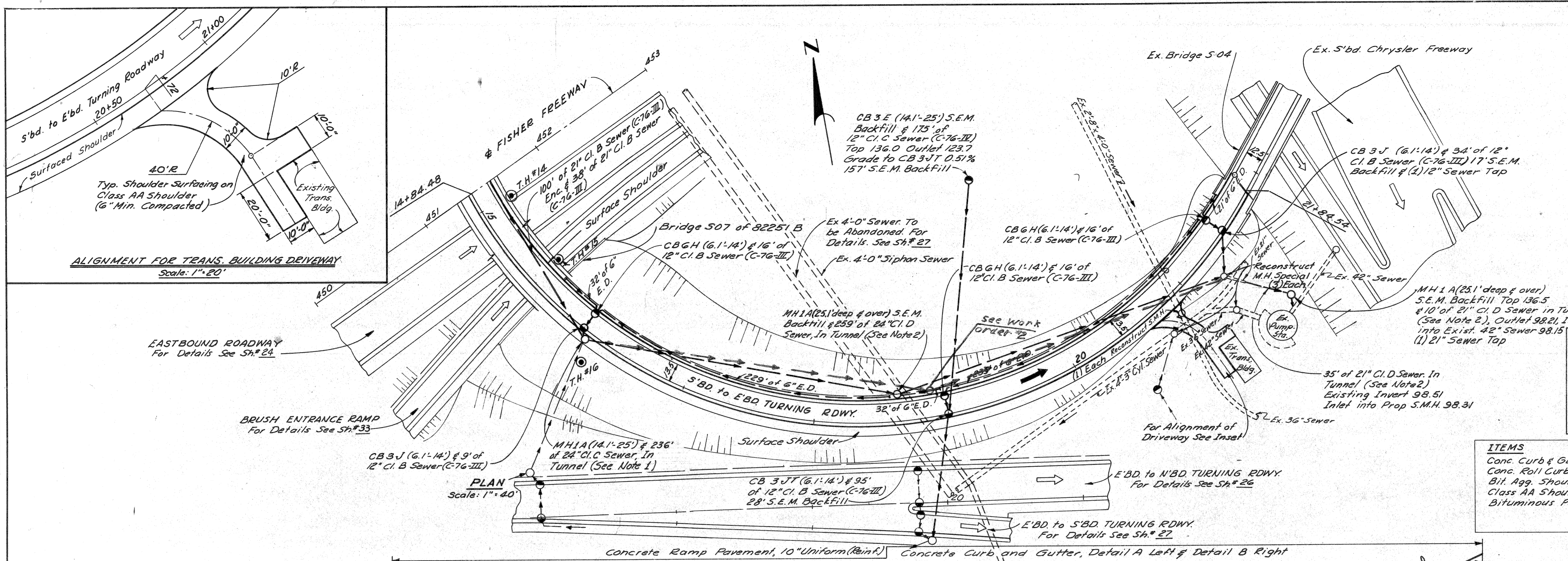
Backfill for sewers and for drainage structures is to be Porous Material Grade A unless otherwise noted. Use Selected Excavated Material if noted S.E.M.
 In drainage notes, the first length is the total length of sewer. A second length, if given, is that portion of the total having S.E.M. backfill.

All Quantities This Sheet Control Section B2251 B C48

NOTES:
 For Alignment See Sh.# 18
 For Index of Soil Borings (Symbol) See Sh.# 202
 For Bridge Details, see Bridge Index Sh.# 202
 For Grading, see Sh.# 23
 For Guard Rail, See Sh.# 43

NOTES:
 1. Contractor may optionally Jack-in-Place 36" C.I. C. Sewer (C-76-IX) instead of 24" C.I. C. Sewer in Tunnel.
 2. Contractor may optionally Jack-in-Place 36" C.I. D Sewer (C-76-IX) instead of 21" or 24" C.I. D Sewer in Tunnel.

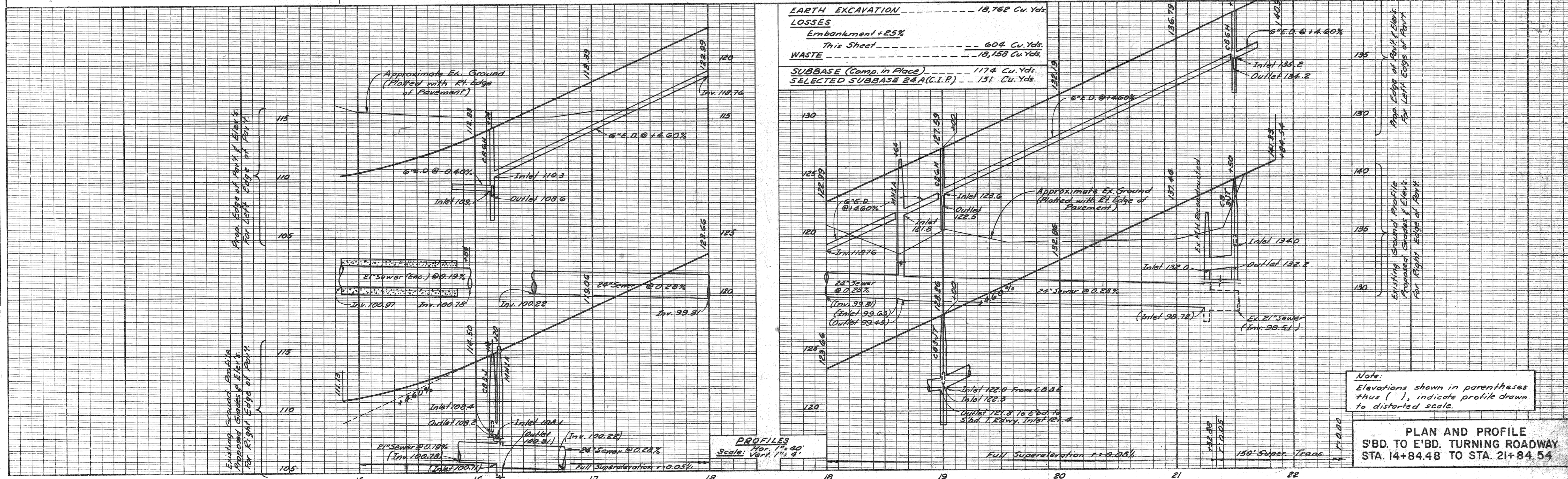
ITEMS	QUANTITIES
Conc. Curb & Gutter, Det. A	677 Lin. Ft.
Conc. Roll Curb & Gutter, Det. B	700 Lin. Ft.
3/4" Agg. Shoulders, Conc. Pav't.	62 Tons
Class AA Shoulders (Comp. in Place)	121 Cu. Yds.
Bituminous Prime Coat	253 Gal.



OPERATION	DATE	BY
PRELIMINARY P.L.O. CHECKED		
FINAL DESIGN CHECKED		
FINAL P.L.O. CHECKED		
FINAL R.O. CHECKED		
QUANTITIES CHECKED		
BOUND		

OPERATION	DATE	BY
CURVED		
PLAN CHECKED		
PROFILE CHECKED		
PRELIMINARY GRADE		
GRADE INSPECTION		

12-65
 12-65
 12-65
 12-65
 12-65
 G. J. Tomporelli
 F. A. Coltrano
 C. R. Hopkins
 Allen E. Morgan



EARTH EXCAVATION	18,762 Cu. Yds.
LOSSES	
Embankment + 25%	
This Sheet	604 Cu. Yds.
WASTE	18,158 Cu. Yds.
SUBBASE (Comp. in Place)	174 Cu. Yds.
SELECTED SUBBASE B4A (C.I.P.)	131 Cu. Yds.

Note:
 Elevations shown in parentheses thus (), indicate profile drawn to distorted scale.

PLAN AND PROFILE
 S'BD. TO E'BD. TURNING ROADWAY
 STA. 14+84.48 TO STA. 21+84.54

S.P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	175-1(107)43		33	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	WAYNE	DETROIT		33	

On the approaches to Freeway, Turning Roadway, and Ramp Bridges constructed in this contract, the Concrete Roll Curb & Gutter, Det. A shall be transitioned for 20ft to match the bridge curb.

Backfill for sewers and/or drainage structures is to be Porous Material Grade A unless otherwise noted. Use Selected Excavated Material if noted S.E.M.
In drainage notes, the first length is the total length of sewer. A second length, if given, is that portion of the total having S.E.M. backfill.

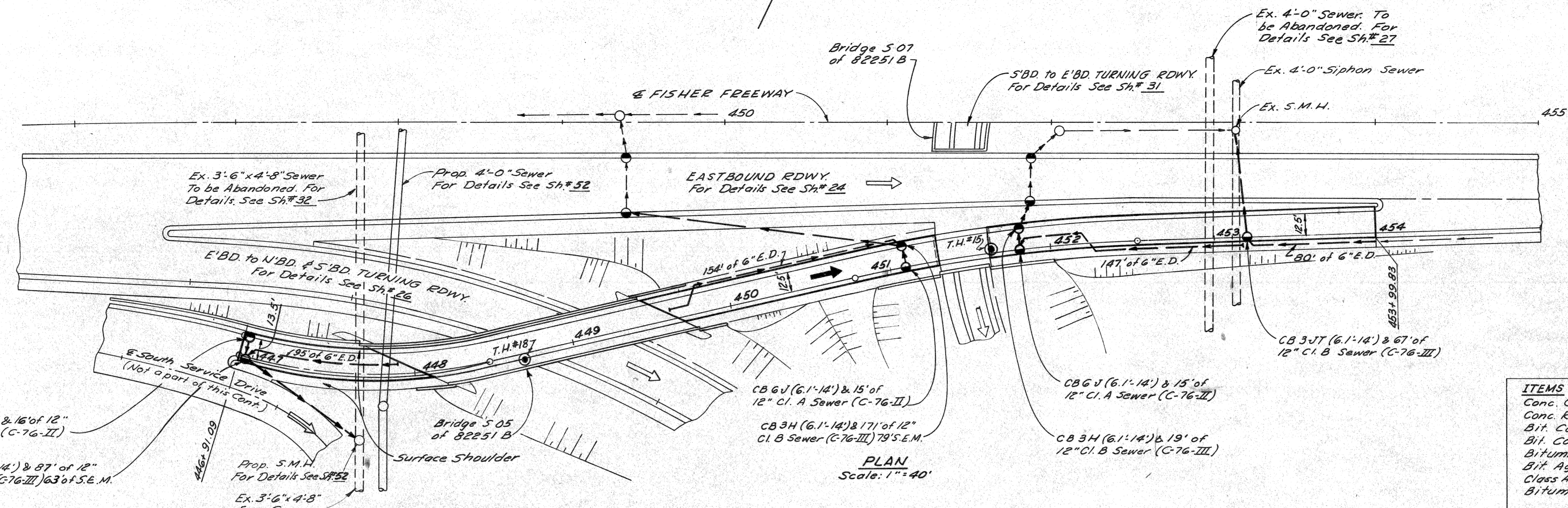
All Quantities This Sheet Control Section 82251 B/C48

NOTES:
For Alignment See Sh.# 15 & 16.
For Index of Soil Borings (Symbol ©) See Sh.# 202.
For Bridge Details see Bridge Index Sh.# 202.
For Grading, See Sh.# 23.
For Guard Rail, See Sh.# 43.

OPERATION	BY	DATE
PRELIMINARY DESIGN		
FINAL DESIGN		
TRACED		
QUANTITIES CHECKED		
QUANTITIES		
QUANTITIES CHECKED		
SSAID		

OPERATION	BY	DATE
DESIGNED		
PLAN CHECKED		
PROFILE PLOTTED		
PRELIMINARY GRADE		
GRADE INSPECTION		
FEDERAL INSPECTION		

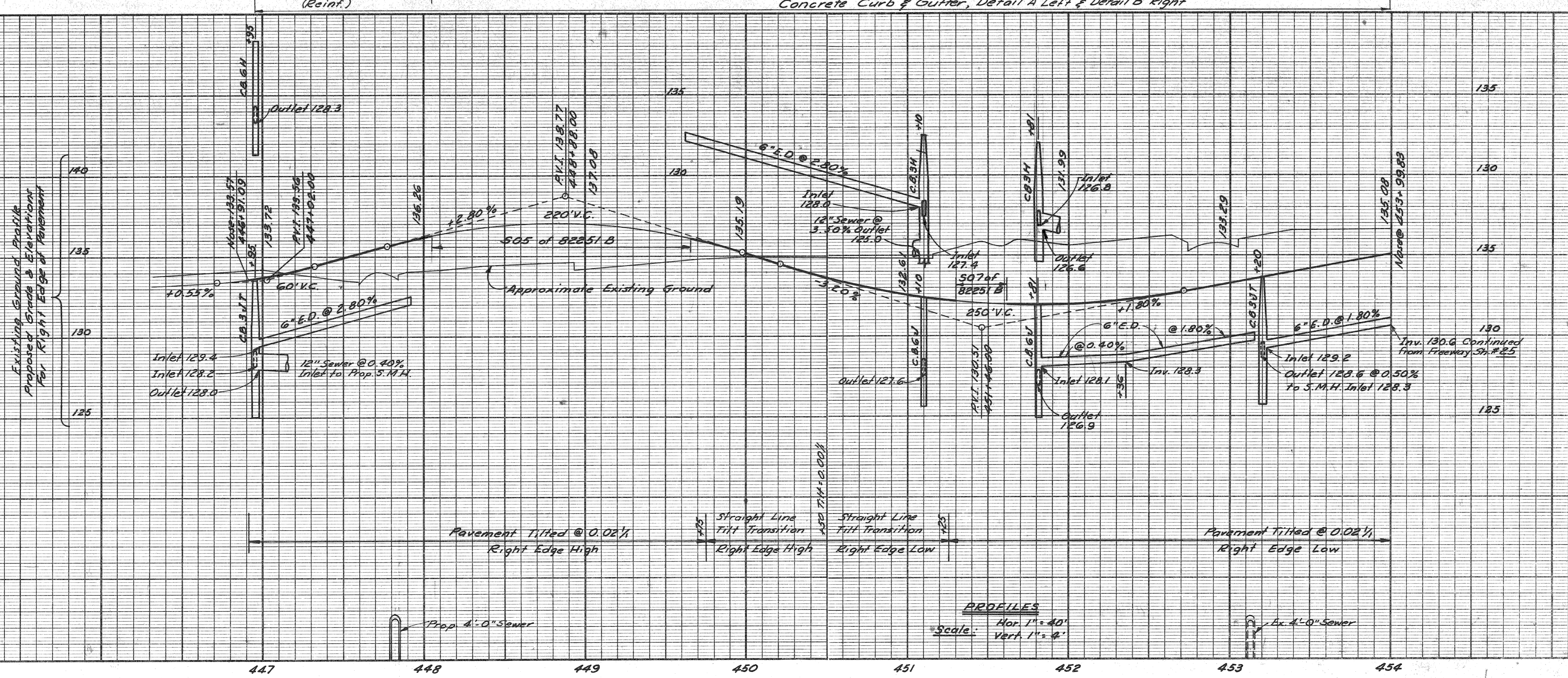
G.D. Mize
M.F. Robinson
F.A. Cappabiano
C.A. Hopkins
Alan E. [unclear]



PLAN Scale: 1" = 40'

ITEMS	QUANTITIES
Conc. Curb & Gutter, Det. A	506 Lin. Ft.
Conc. Roll Curb & Gutter, Det. B	519 Lin. Ft.
Bit. Conc. Leveling Course	34 Tons
Bit. Conc. Wearing Course 31AA	23 Tons
Bituminous Bond Coat	115 Gals.
Bit. Agg. Shoulders, Conc. Pav't	33 Tons
Class AA Shoulders (Comp. in Place)	65 Cu. Yds.
Bituminous Prime Coat	135 Gals.

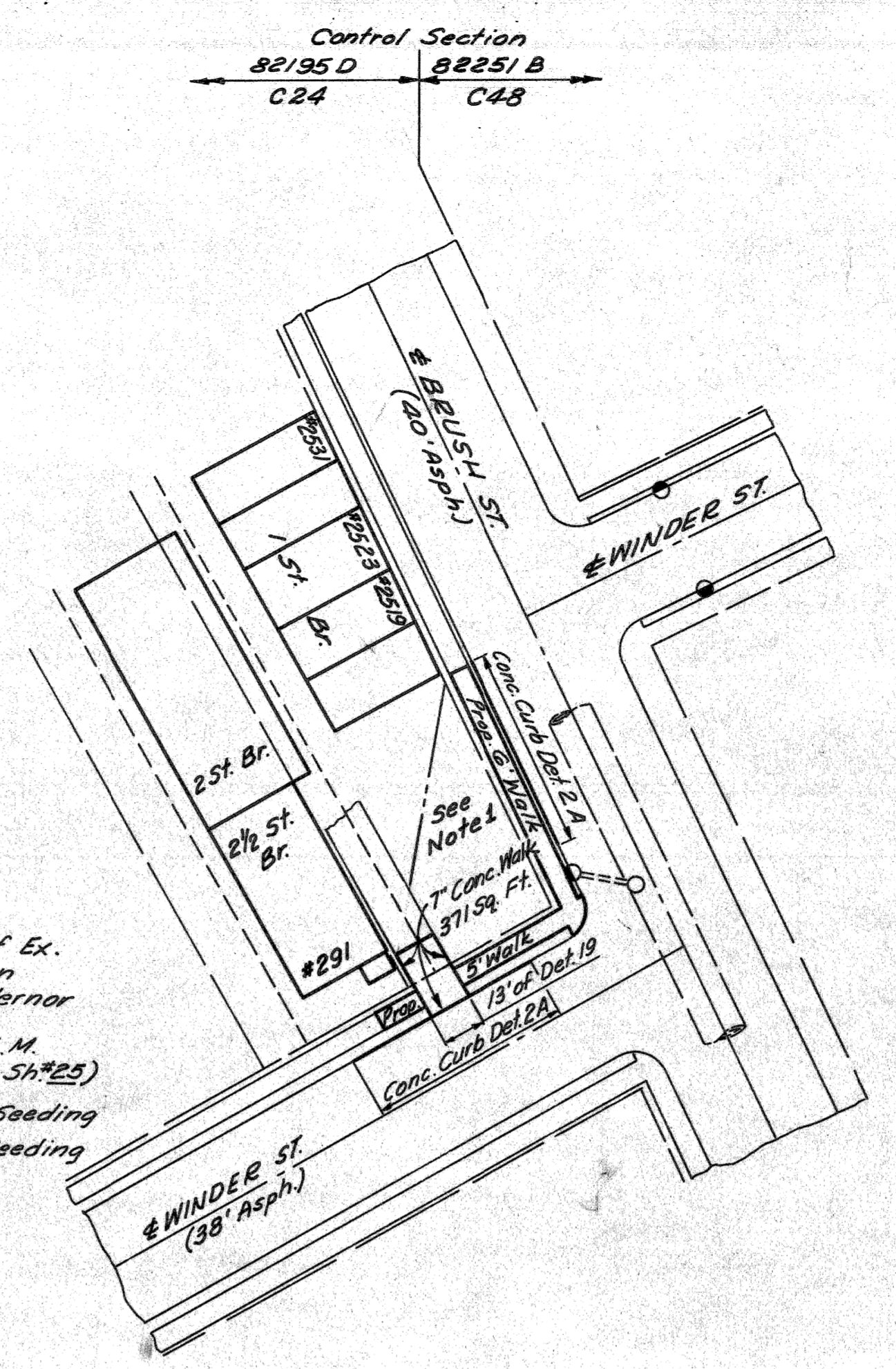
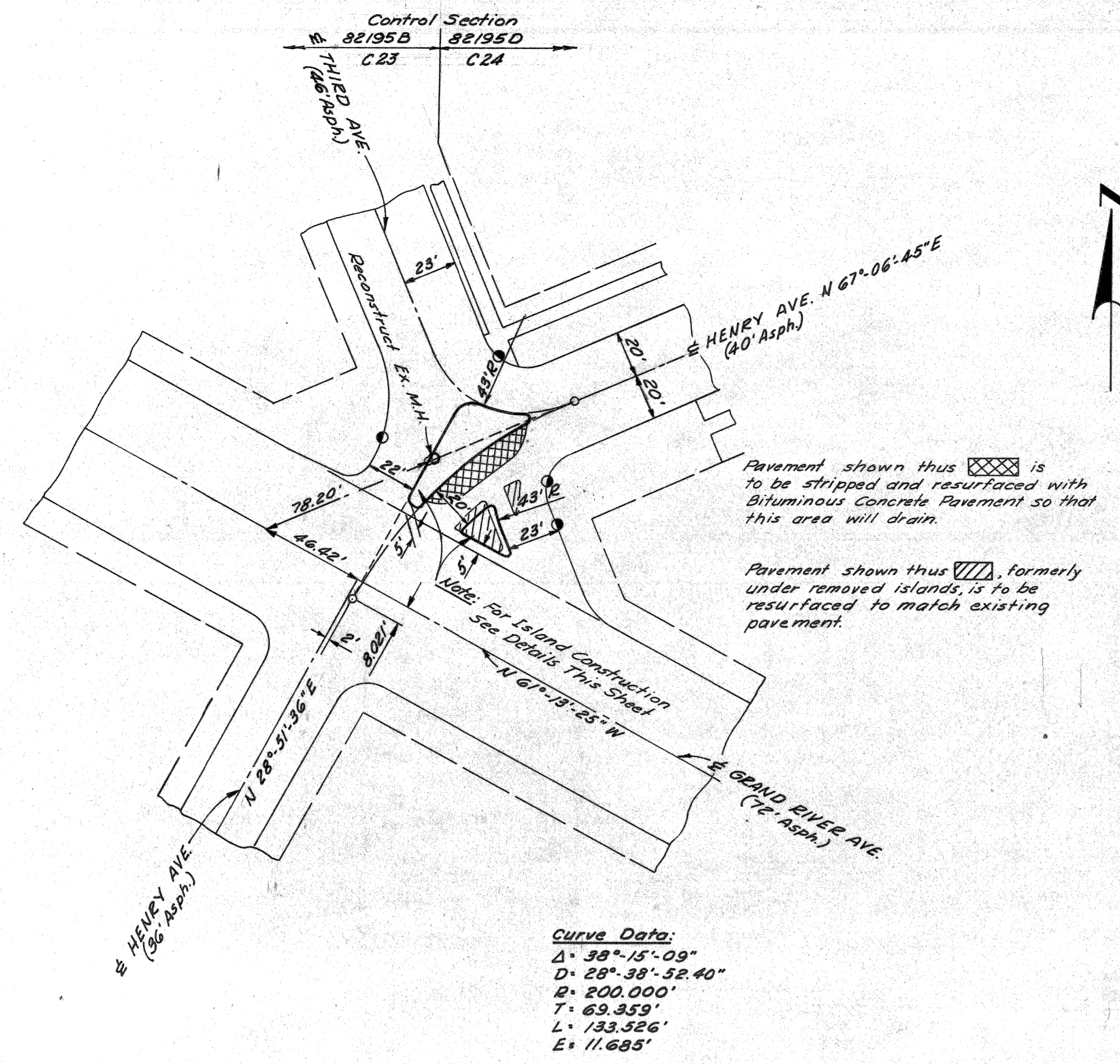
EARTH EXCAVATION	1600 Cu. Yds.
LOSSES	
Embankment + 25%	40 Cu. Yds.
This Sheet	
WASTE	1560 Cu. Yds.
SUBBASE (Comp. in Place)	767 Cu. Yds.
SELECTED SUBBASE 24A (C.I.P.)	105 Cu. Yds.



PROFILES Scale: Hor. 1" = 40' Vert. 1" = 4'

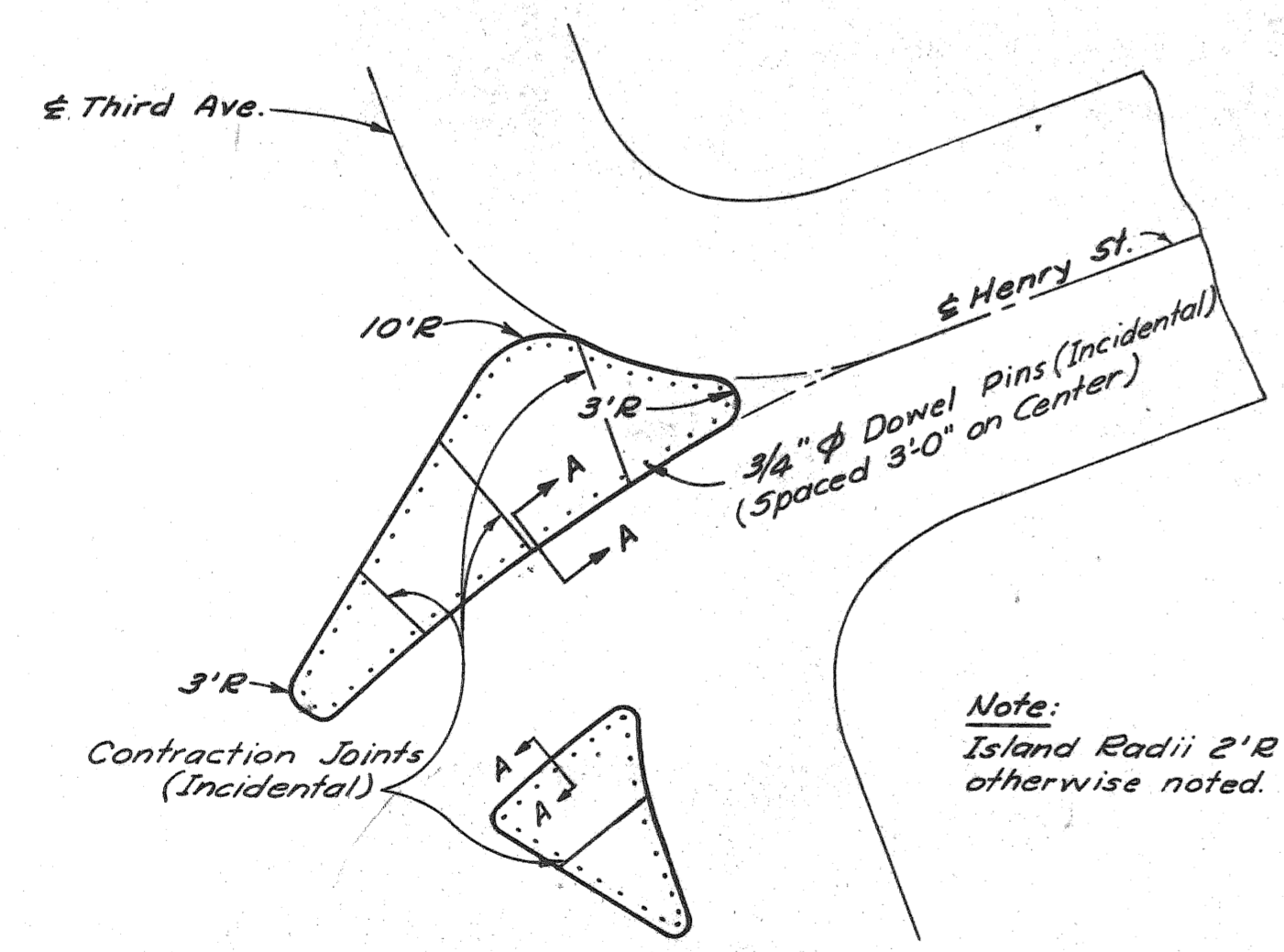
PLAN AND PROFILE BRUSH ENTRANCE RAMP

S.P.D. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	175-1071A3		34	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	WAYNE	DETROIT		34	
S.P.D. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS



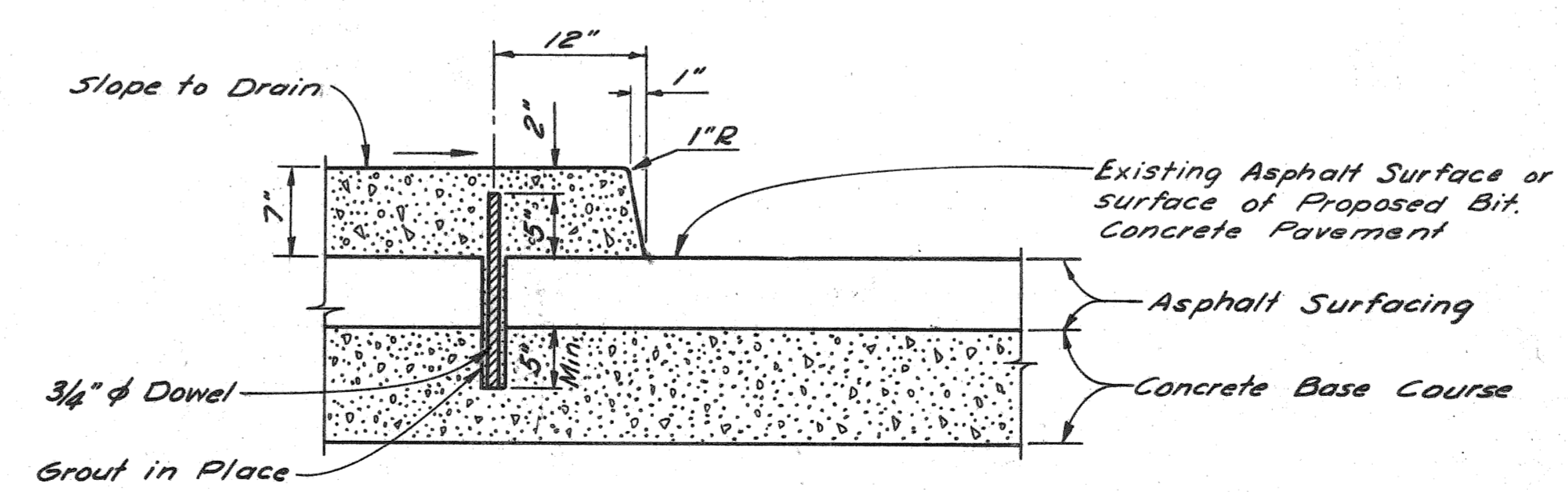
PLAN Scale: 1"=40'

THIRD-GRAND RIVER-HENRY



DETAILS OF 7" CONCRETE ISLANDS Scale: 1"=20'0"

WINDER - BRUSH



SECTION A-A Scale: 1"=14"

QUANTITIES

ITEMS	Control Section	82195B C23	82195D C24
Concrete Curb, Detail 2A	Lin. Ft.	-	123 Lin. Ft.
4" Concrete Sidewalk	Sq. Ft.	-	765 Sq. Ft.
7" Concrete Sidewalk	Sq. Ft.	-	371 Sq. Ft.
7" Concrete Island	Sq. Yds.	125	-
Bituminous Conc. Wearing Course 3/4" A	Tons	5	-
Bituminous Conc. Leveling Course	Tons	10	-
Bituminous Band Coat	Gals.	155	-
Removing Bituminous Surface	Sq. Yds.	54	-

PLAN THIRD-GRAND RIVER-HENRY & WINDER-BRUSH INTERSECTIONS

FILE NO.	82195B C23	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
82195		WAYNE	DETROIT		34	

DESIGNED BY: G.D.M./12
 DRAWN BY: M.F. Yobron
 CHECKED BY: F.A. Hayward
 IN CHARGE: B.V. Tempel
 DATE: 12-65
 APPROVED: [Signature]
 APPROVED: [Signature]

OPERATION	DATE
PRELIMINARY P.O.W. CHECKED	
FINAL DESIGN CHECKED	
FRASER	
QUANTITIES CHECKED	
SOILAD	

OPERATION	DATE
PRELIMINARY P.O.W. CHECKED	
FINAL DESIGN CHECKED	
FRASER	
QUANTITIES CHECKED	
SOILAD	

OPERATION	DATE
PRELIMINARY P.O.W. CHECKED	
FINAL DESIGN CHECKED	
FRASER	
QUANTITIES CHECKED	
SOILAD	

G. D. Miller
M. J. Robinson
C. B. Cook
C. B. Cook
12-65

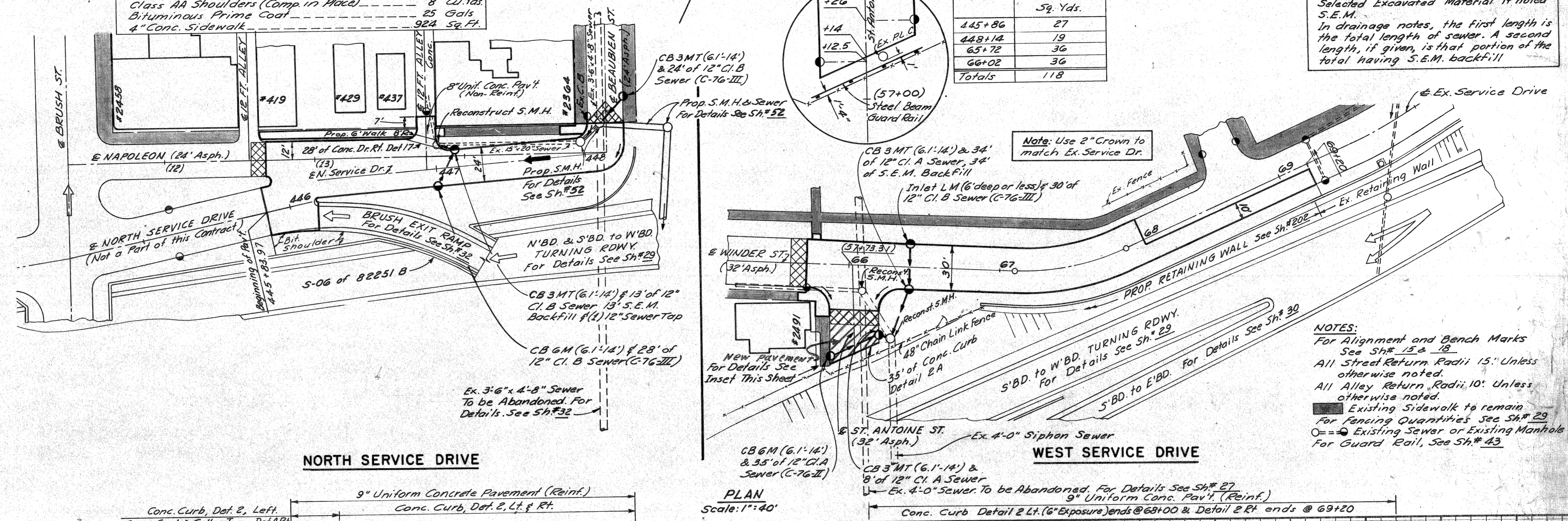
ITEMS	QUANTITIES
Conc. Curb, Detail 2	993 Lin. Ft.
Conc. Curb, Detail 2A	35 Lin. Ft.
Conc. Curb & Gutter, Det. A	32 Lin. Ft.
Bit. Conc. Leveling Course	7 Tons
Bit. Conc. Wearing Course	7 Tons
Bituminous Bond Coat	24 Gals.
Bit. Agg. Shoulders, Conc. Pav't	6 Tons
Class AA Shoulders (Comp. in Place)	8 Cu. Yds.
Bituminous Prime Coat	25 Gals.
4" Conc. Sidewalk	924 Sq. Ft.

All Quantities This Sheet Control Section 82251B-C48
Remove Bituminous Surface shown cross-hatched to provide for a smooth connection and to adjust crown. Replace with Bituminous Concrete Pavement.

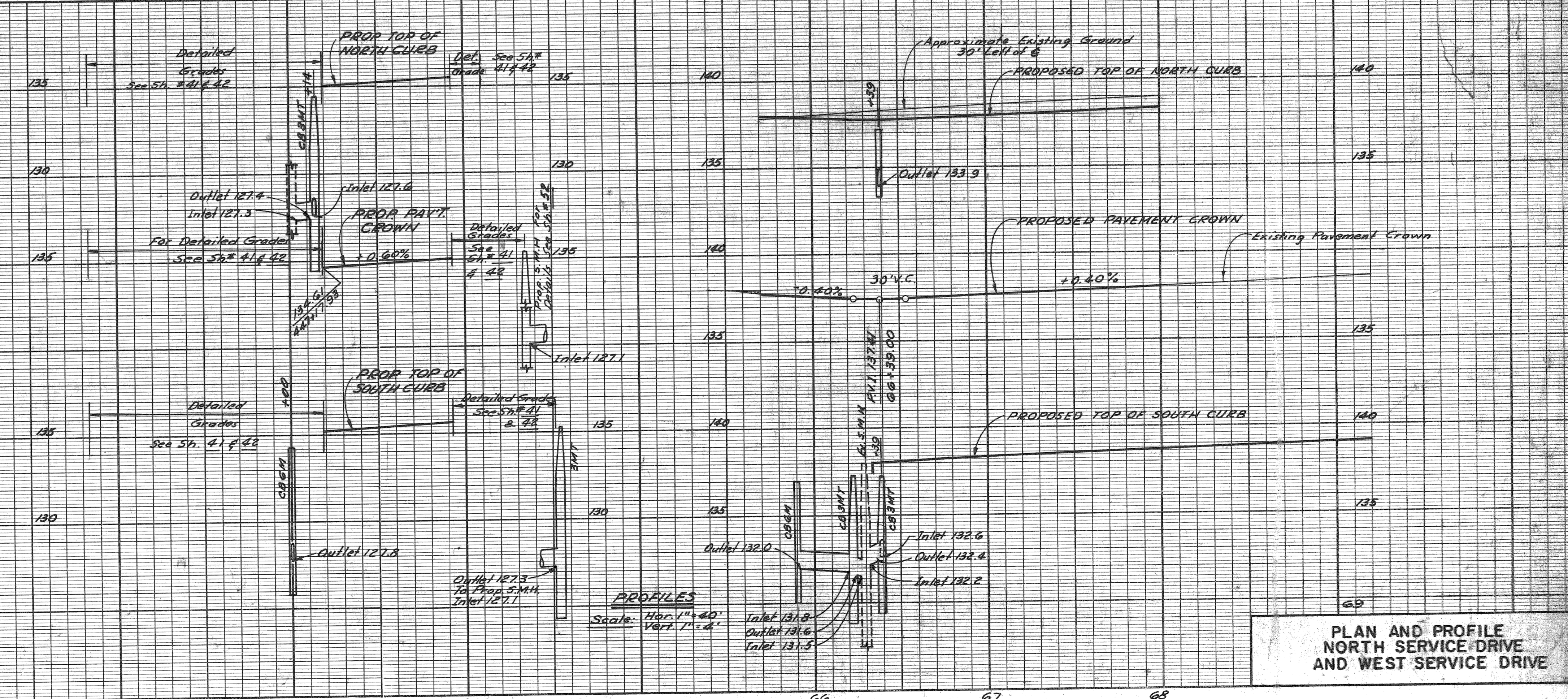
B.P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MIH.	1-15-10743		35	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
02195	WAYNE		DETROIT	35	

Backfill for sewers and/or drainage structures is to be Porous Material Grade A unless otherwise noted. Use Selected Excavated Material if noted S.E.M.
In drainage notes, the first length is the total length of sewer. A second length, if given, is that portion of the total having S.E.M. backfill

Station	Removing Bituminous Surface Sq. Yds.
445+86	27
448+14	19
65+72	36
66+02	36
Totals	118

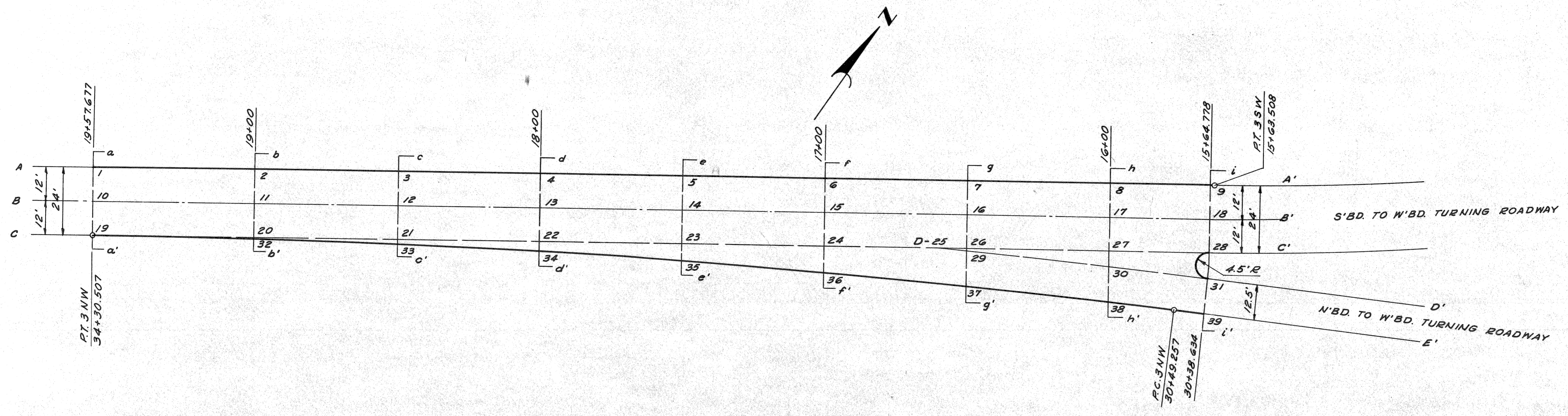


EARTH EXCAVATION	264 Cu. Yds.
LOSSES	0 Cu. Yds.
WASTE	264 Cu. Yds.
BORROW Embankment +25% Sh.# 32	40 Cu. Yds.
SAND-GRAVEL MATERIAL (C.I.P.)	123 Cu. Yds.



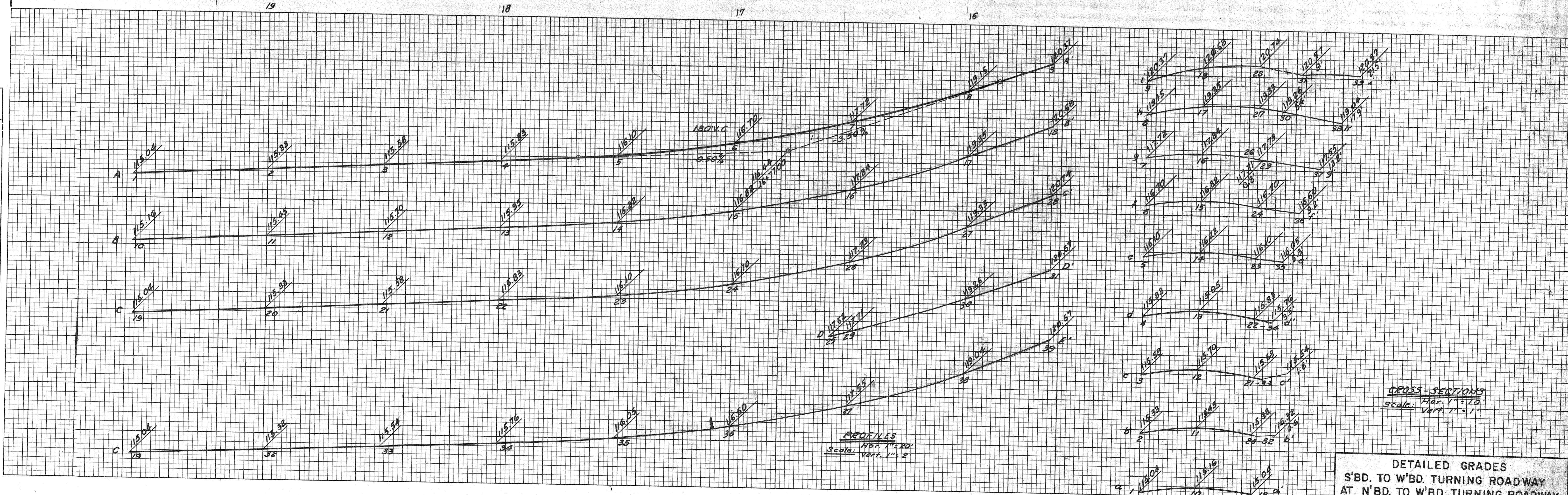
PLAN AND PROFILE NORTH SERVICE DRIVE AND WEST SERVICE DRIVE

STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MICH.	1-15(107)43		38	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.
82195		Wayne	Detroit	38



PLAN
Scale: 1"=20'

For Alignment Details see sh. # 14 & 16



PROFILES
Scale: Hor. 1"=20'
Vert. 1"=2'

CROSS-SECTIONS
Scale: Hor. 1"=10'
Vert. 1"=1'

DETAILED GRADES
S'B.D. TO W'B.D. TURNING ROADWAY
AT N'B.D. TO W'B.D. TURNING ROADWAY

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

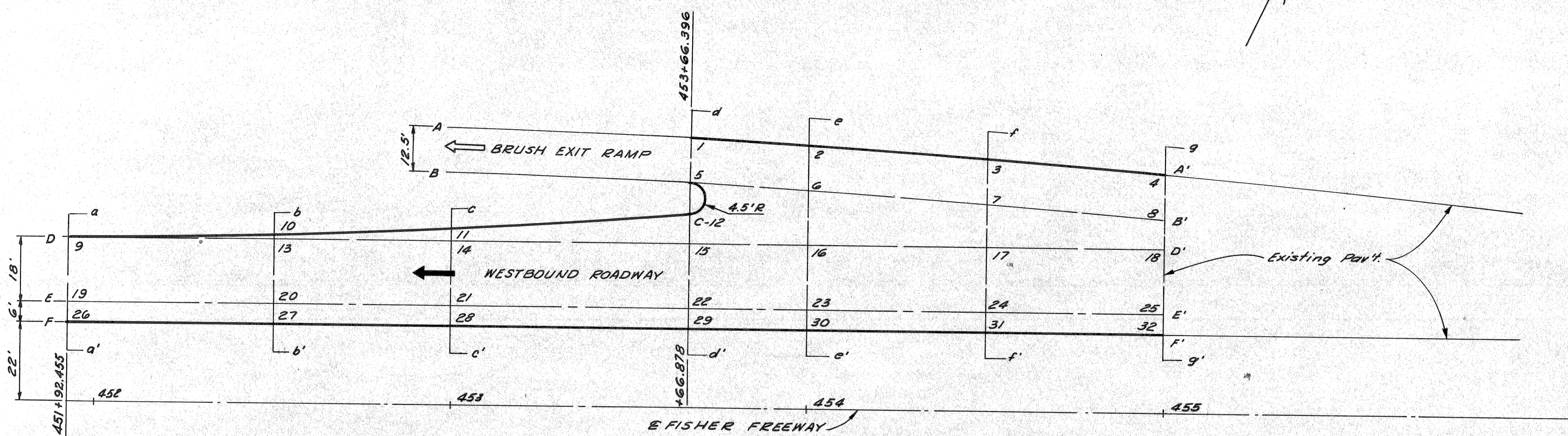
PLANS PREPARED BY
CITY OF DETROIT
DIVISION OF HIGHWAYS AND DISTRICTS
BUREAU OF HIGHWAYS AND DISTRICTS

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

SQUAD LEADER
G. D. Milt
SUPERVISOR
W. F. Kaban
CHECKER
E. A. Carabonano
B. J. Tompogall
APPROVED
R. E. Payne

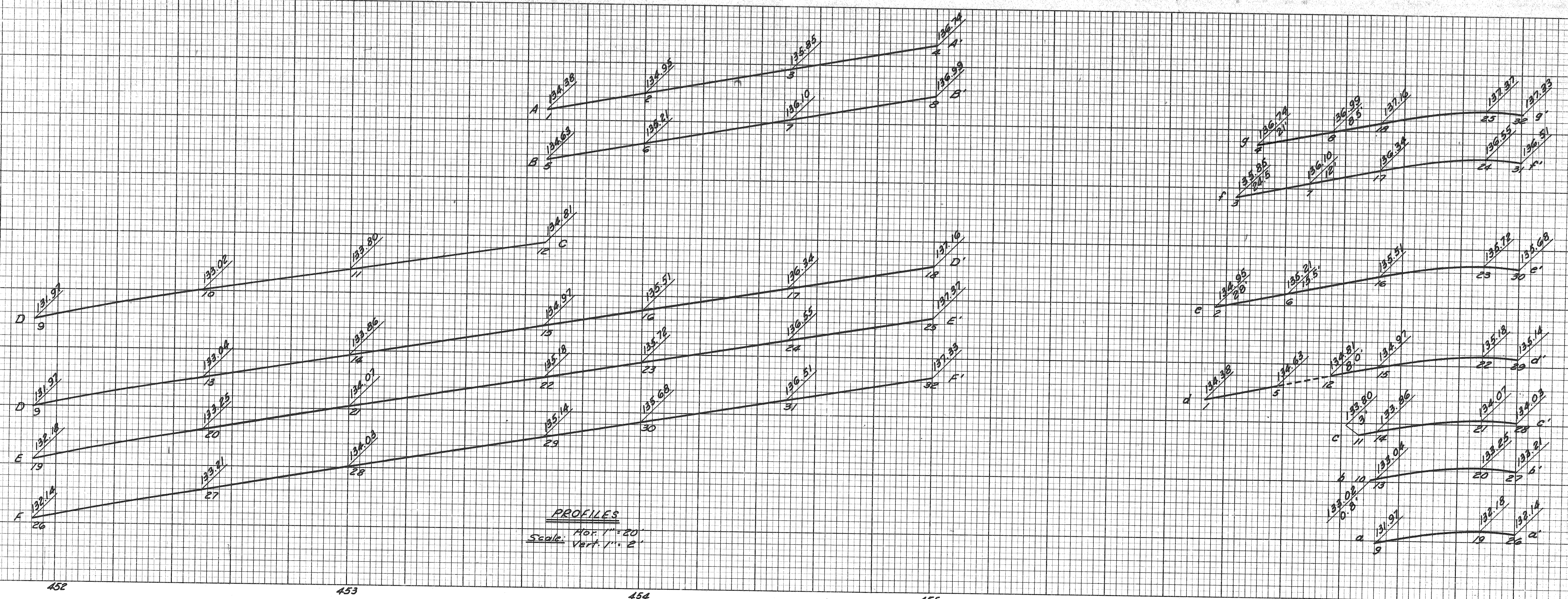
S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-75-10743			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	WAYNE	DETROIT		40	

S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS



PLAN
Scale: 1"=20'

Note:
For Alignment See Sht. # 16



PROFILES
Hor. 1"=20'
Vert. 1"=2'

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

DETAILED GRADES
BRUSH EXIT RAMP AT
WESTBOUND FISHER FREEWAY

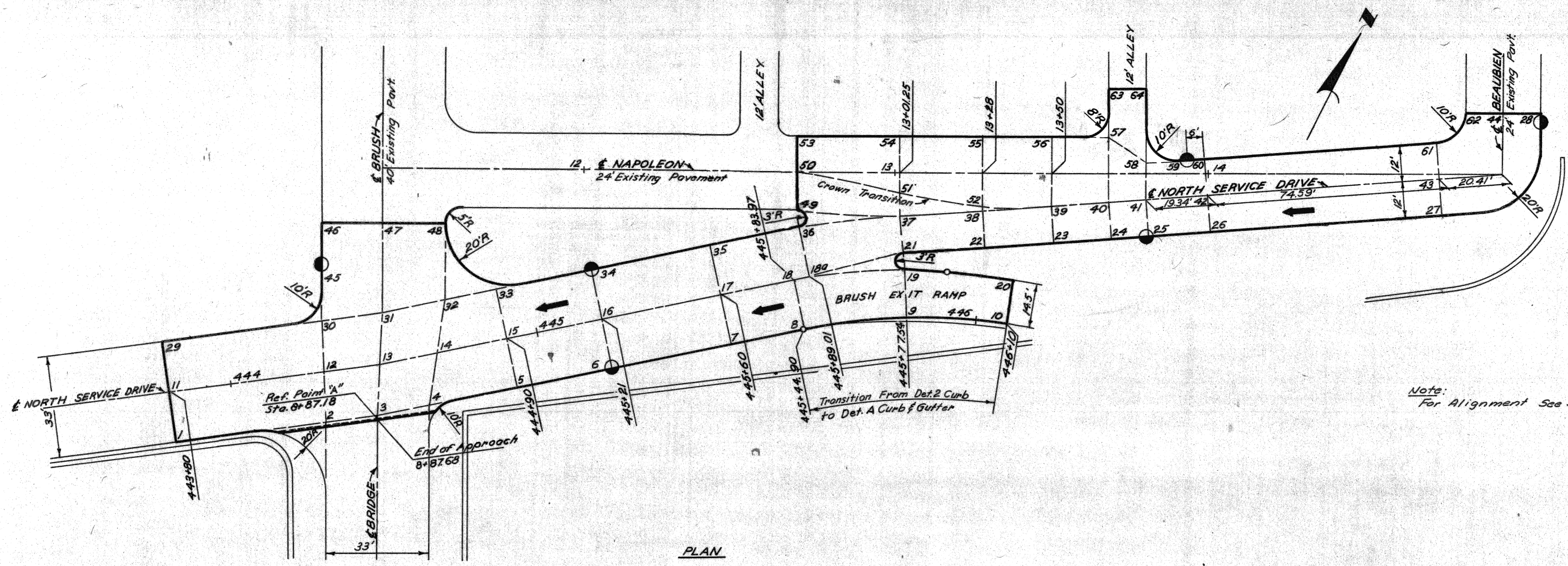
OPERATION	DATE	BY
PRELIMINARY P.O.W. CHECKED		
FINAL DESIGN		
TRACED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	DATE	BY
SURVEYED		
PLAN PLOTTED		
PLAN CHECKED		
PROFILE CHECKED		
PRELIMINARY GRADE		
GENERAL INSPECTION		

G.D. M. H. 12-65
 C. D. HARRIS 12-65
 F. A. CANTARANO 12-65
 B. J. TEMPORELLI 12-65
 J. J. HAYES 12-65

OPERATION: SUPERVISOR: 12-65
 PREPARED BY: PLANS, PREPARED BY: C. D. Pyle
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

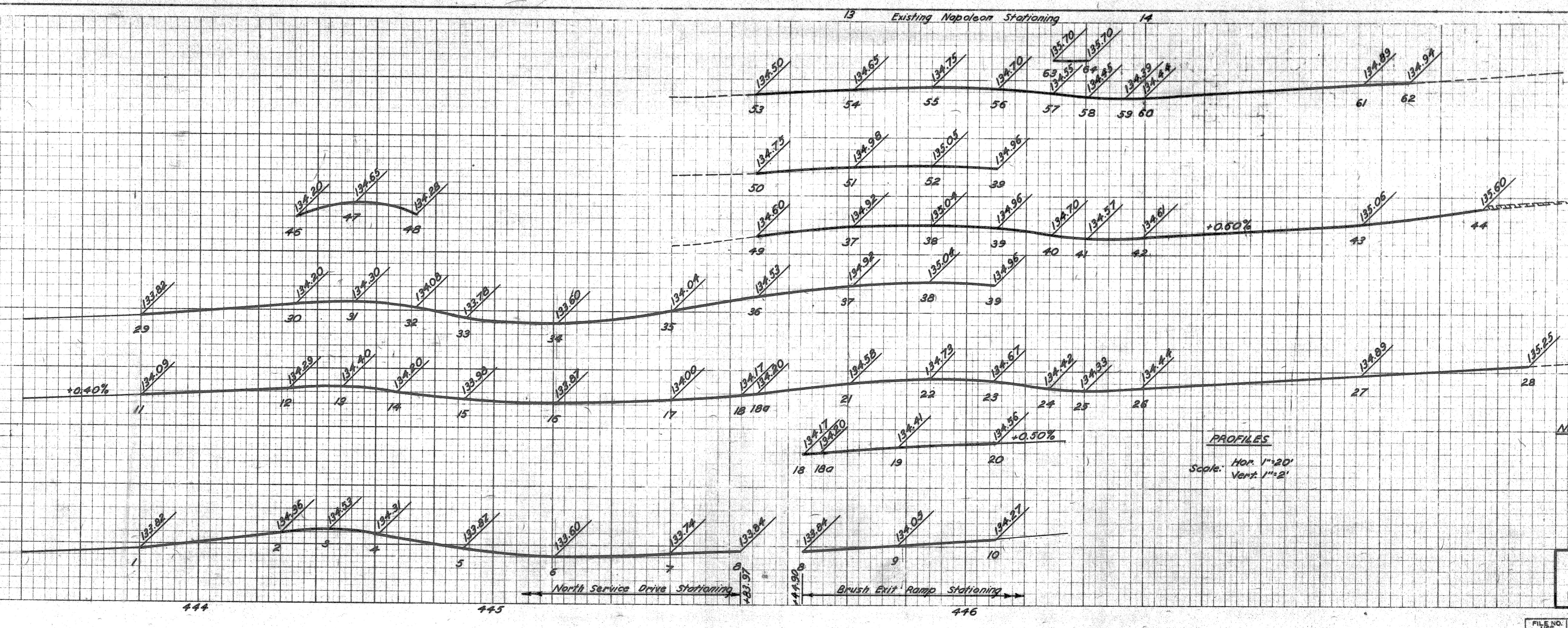
AUTH.	DATE	REVISION	FINAL R.O.W.



PLAN
 Scale: 1"=20'

Note:
 For Alignment See St. # 15

R.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	15-10743			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	Wayne	Detroit		41	



PROFILES
 Scale: Hor. 1"=20'
 Vert. 1"=2'

Note:
 For Cross Sections See St. # A2

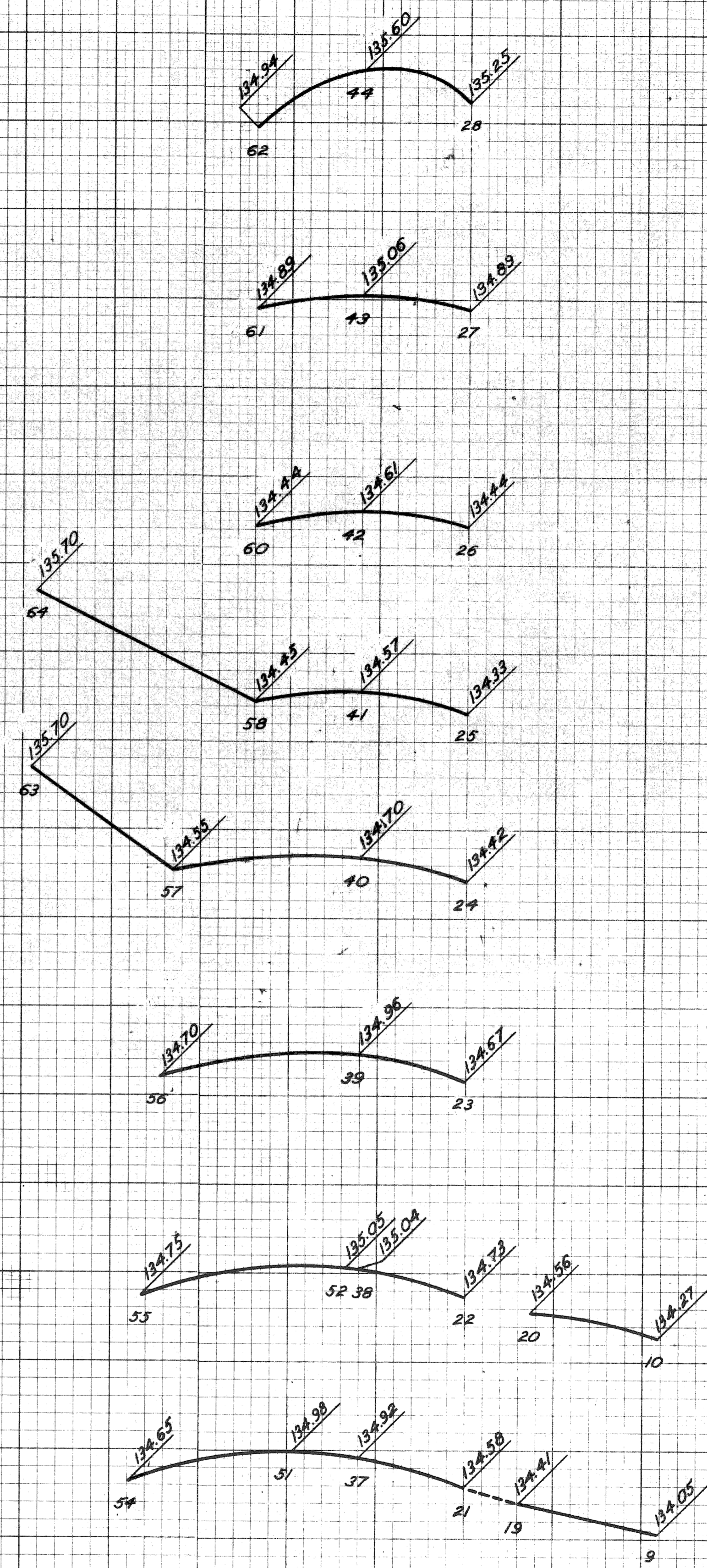
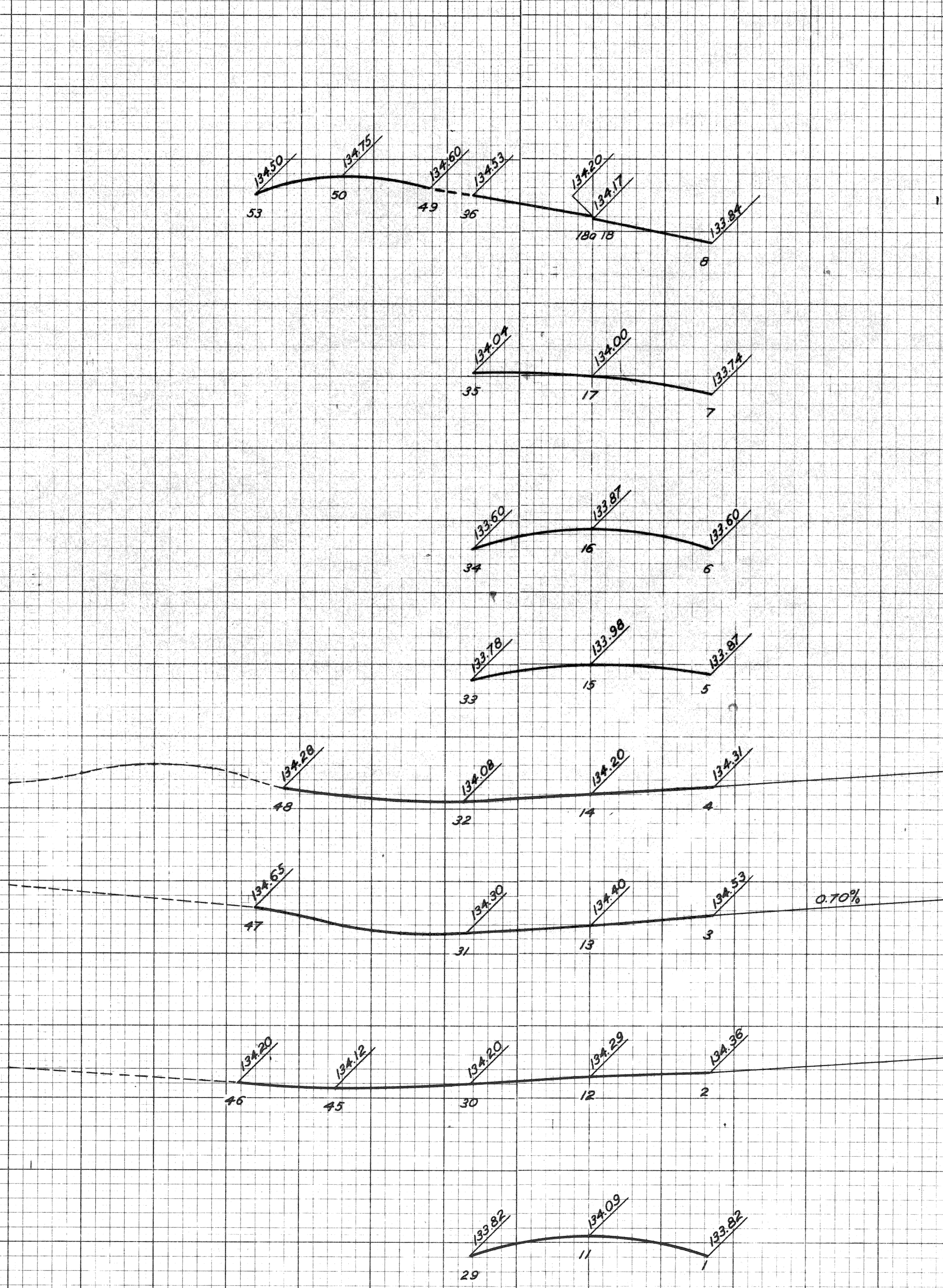
DETAILED GRADES
 NORTH SERVICE DRIVE AT
 BRUSH ST AND BRUSH EXIT RAMP

FILE NO.	82195B C23	STATE PROJECT	15-10743	FISCAL YEAR		SHEET NO.	41	TOTAL SHEETS
----------	------------	---------------	----------	-------------	--	-----------	----	--------------

DATE
BY
PLOTTED
COMPUTED
CHECKED

PLANS PREPARED BY
DATE

12-65
12-65
12-65
12-65
12-65
G. D. Milz
C. E. Hopkins
C. A. Hoyer
R. J. Hoyer
J. E. Hoyer

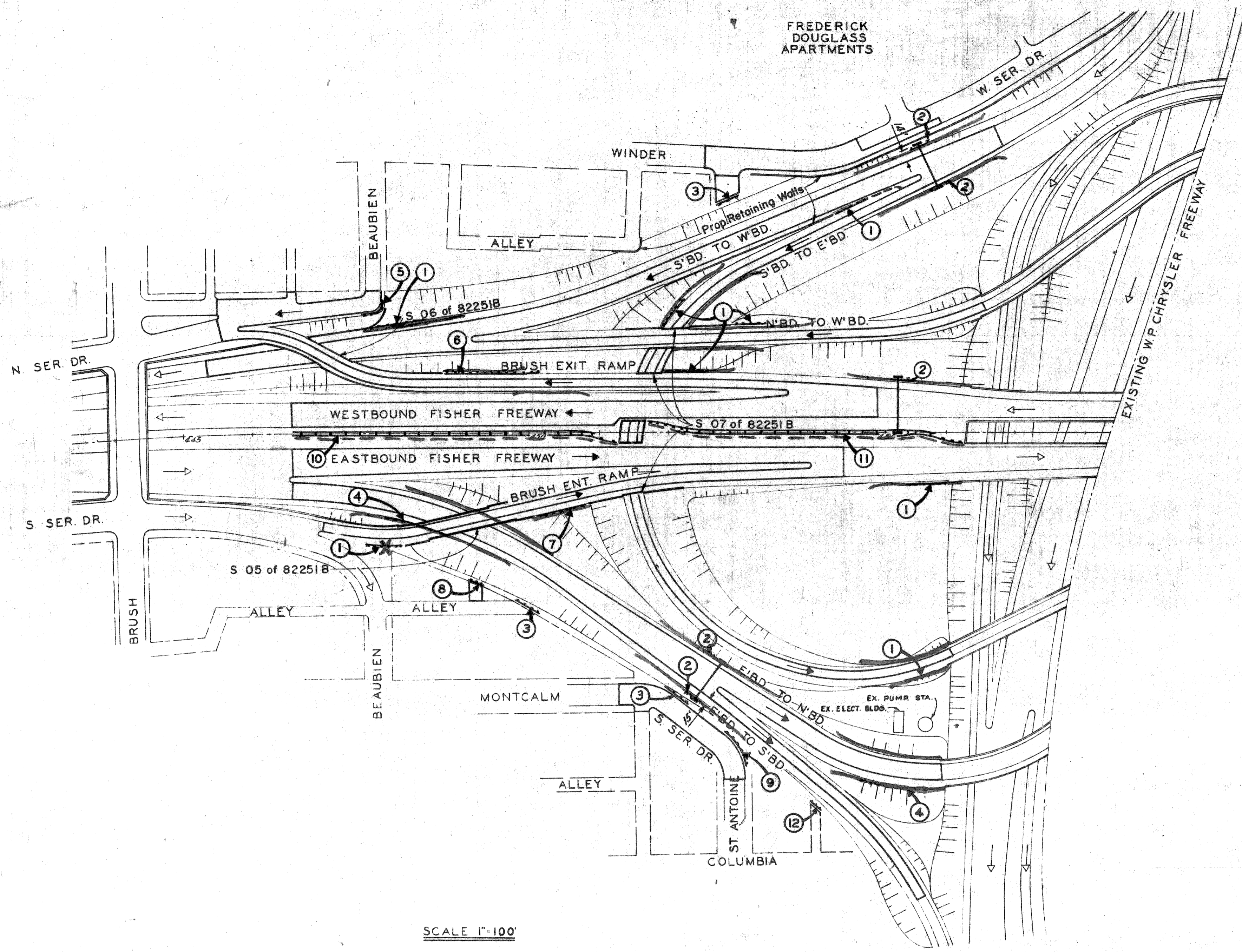


CROSS SECTIONS
Scale: Hor. 1" = 10'
Vert. 1" = 1'

Note: For Profiles See Sht. # 41

DETAILED GRADES FOR
NORTH SERVICE DR. AT BRUSH
STREET & BRUSH EXIT RAMP

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	125-1(07)43			
ROUTE	PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	Wayne	Dearborn		43	



SCALE 1"=100'

SYMBOL	GUARD RAIL QUANTITIES																		
	Curved Steel Beam Guard Rail			Steel Beam Guard Rail			Double Steel Beam Guard Rail			Curved Offset Guard Rail - Single			Offset Guard Rail - Single						
	Locations	Lin. Ft. per Location	Sub-totals	Locations	Lin. Ft. per Location	Sub-totals	Locations	Lin. Ft. per Location	Sub-totals	Locations	Lin. Ft. per Location	Sub-totals	Locations	Lin. Ft. per Location	Sub-totals				
1	-	-	-	-	-	-	-	-	-	8	12.5(25'12")	100	8	41.0	328.0				
2	-	-	-	-	-	-	-	-	-	5	12.5(25'12")	62.5	5	28.5	142.5				
3	-	-	-	3	41.0	123.0	-	-	-	-	-	-	-	-	-				
4	-	-	-	-	-	-	-	-	-	2	12.5(25'12")	25.0	2	91.0	182.0				
5	1	37.5(22'0")	37.5	1	16.0	16.0	-	-	-	-	-	-	-	-	-				
6	-	-	-	-	-	-	-	-	-	1	12.5(25'12")	12.5	1	116.0	116.0				
7	-	-	-	-	-	-	-	-	-	-	-	-	1	91.0	91.0				
8	-	-	-	1	28.5	28.5	-	-	-	-	-	-	-	-	-				
9	1	50.0(22'2")	50.0	1	16.0	16.0	-	-	-	-	-	-	-	-	-				
10	-	-	-	1	53.5	53.5	1	412.5	412.5	-	-	-	-	-	-				
11	-	-	-	1	107.0	107.0	1	350.0	350.0	-	-	-	-	-	-				
12	-	-	-	1	16.0	16.0	-	-	-	-	-	-	-	-	-				
TOTALS			87.5	TOTALS			360.0	TOTALS			762.5	TOTALS			200.0	TOTALS			233.5

All Quantities This Sheet Control Section 82251 B-C48

FOUNDATIONS FOR TRAFFIC SIGNS					
Roadway	Station	Type B Foundation Each	Elevation of Top of Foundation		Span Length Feet
			South	North	
E'bd. to N'bd. & S'bd.	19+65	2	135.09	135.09	70
S'bd. to E'bd. & N'bd.	9+20	2	124.22	125.97	70
Westbound Fisher	483+31	2	139.15	140.90	80
Totals	-	6	-	-	-

NOTES
I. Guard Rail
 (a) For details of Guard Rail at shoulders and in Median See M.S.H.D. Standard Plan E-4-A-142C and Sh. #46
 (b) Core must be taken when driving Guard Rail Posts in the Median in order to avoid interference with P.L.C. cable.
II. Traffic Sign Foundations
 (a) For details of Foundations for Overhead Traffic Sign Trusses, See Sh. # 48
 See Auth. # 1019, 1029, 2005, 1031, 2011

— Beam Guard Rail - Type C
 - - - Beam Guard Rail Type CD

PLAN OF GUARD RAIL AND TRAFFIC SIGN FOUNDATIONS

82195B C23

PREPARED BY
 G.D. MIZ
 G.D. MIZ
 F.A. COHINGTON
 C.K. POPKIN
 12-65
 12-65
 12-65
 12-65