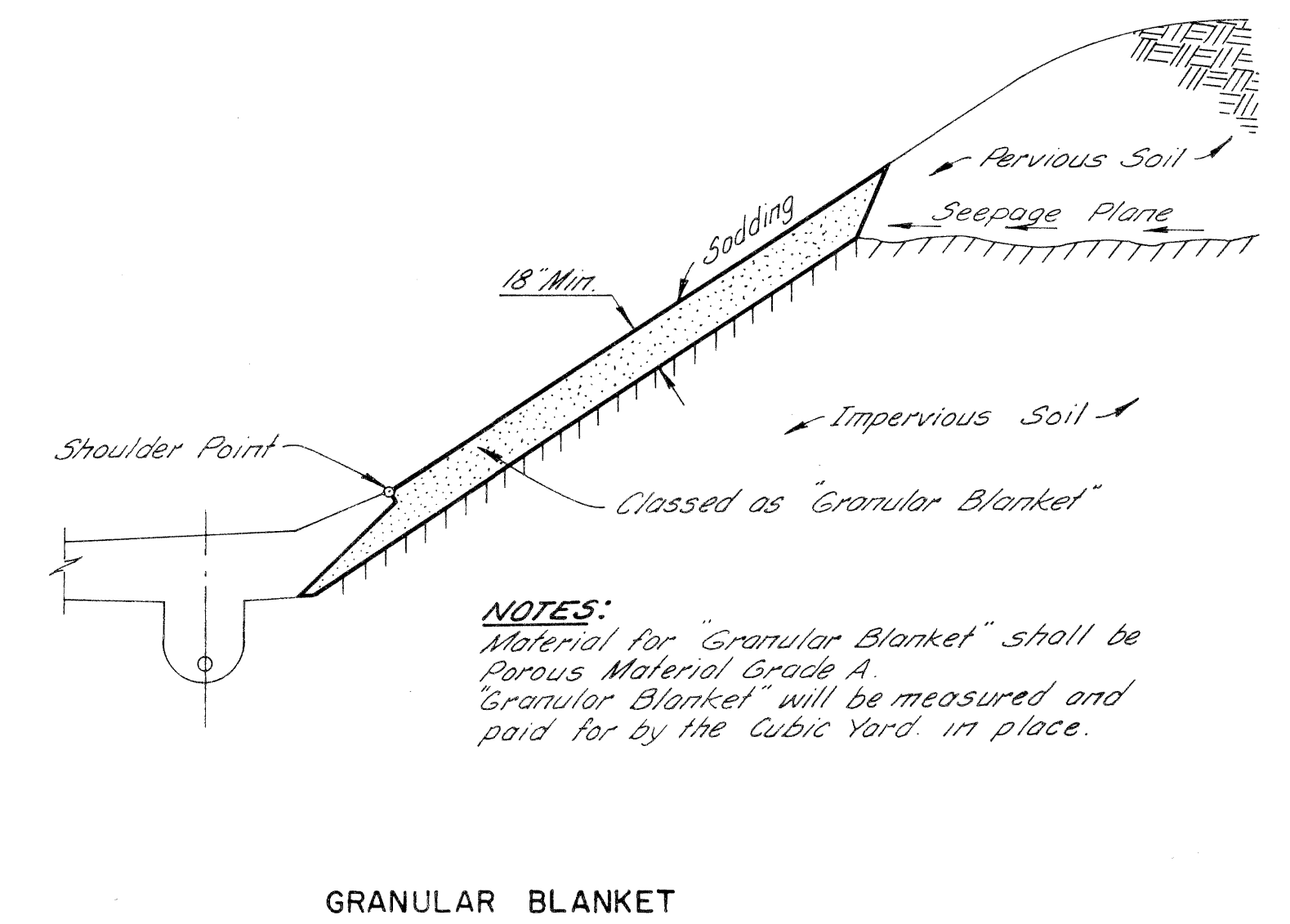
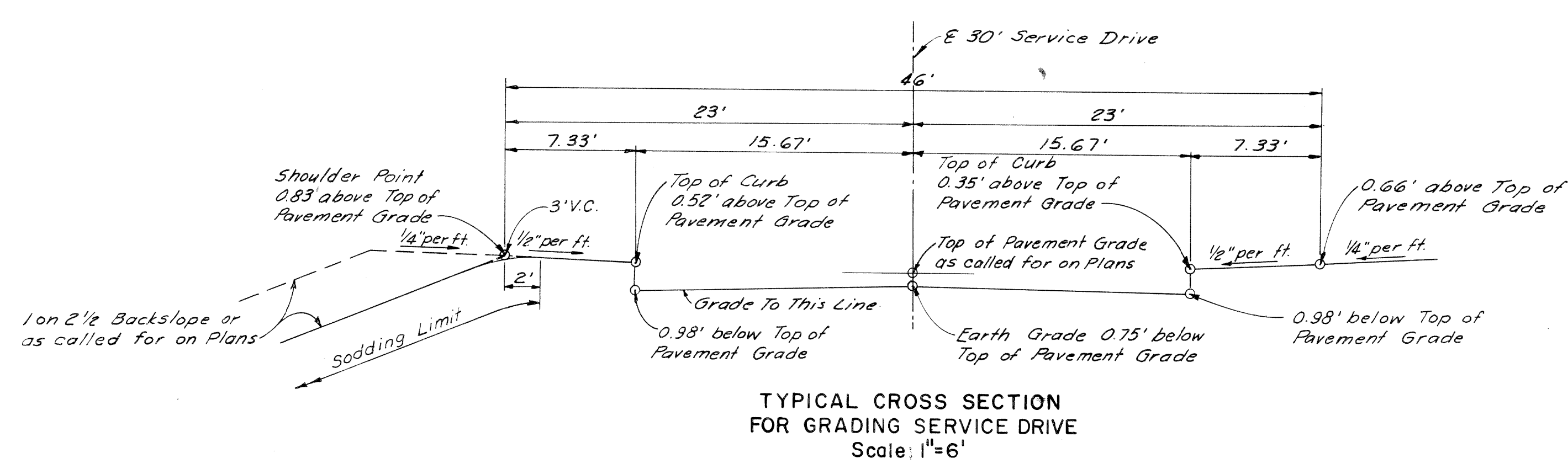
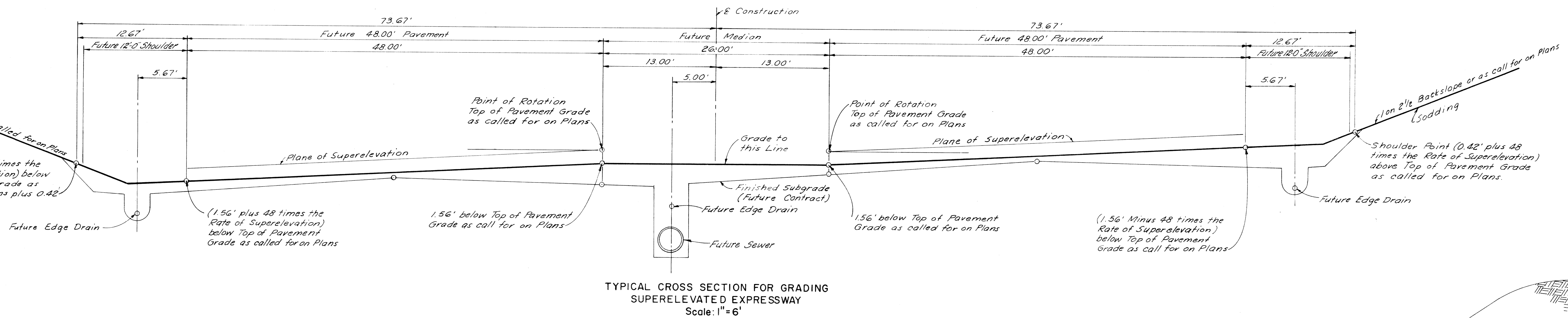
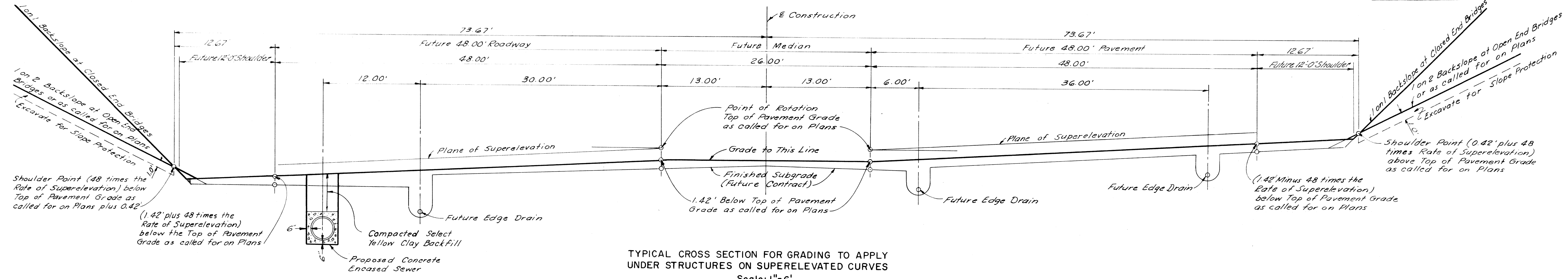


TYPICAL CROSS-SECTIONS

S.P. No.	STATE	Fed. PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
4	MICH.	175-178154			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET No.	TOTAL SHEETS
175	82252A	Wayne	Detroit	3	
S.P. No.	STATE	Fed. PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET No.	TOTAL SHEETS



NOTES:
Material for "Granular Blanket" shall be porous material Grade A. "Granular Blanket" will be measured and paid for by the cubic yard, in place.

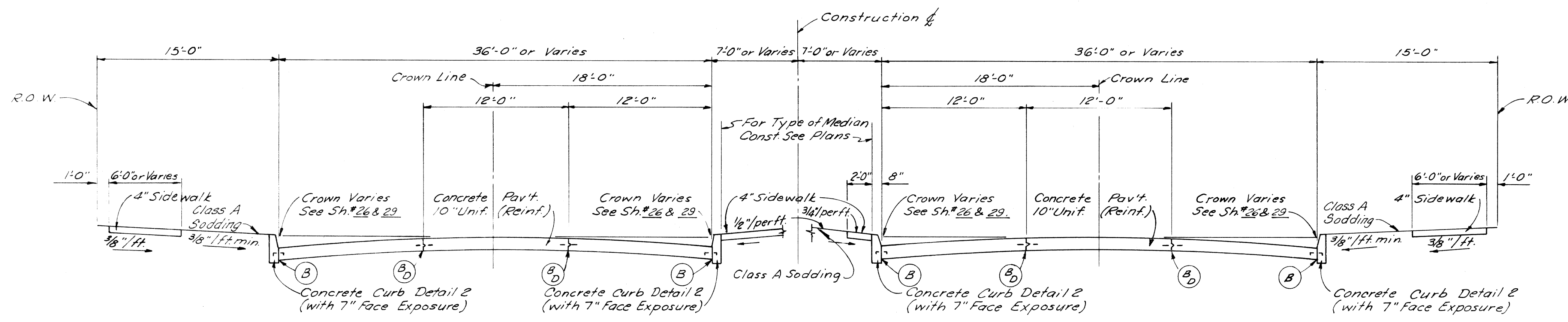
PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

GRADING FOR ROADWAYS

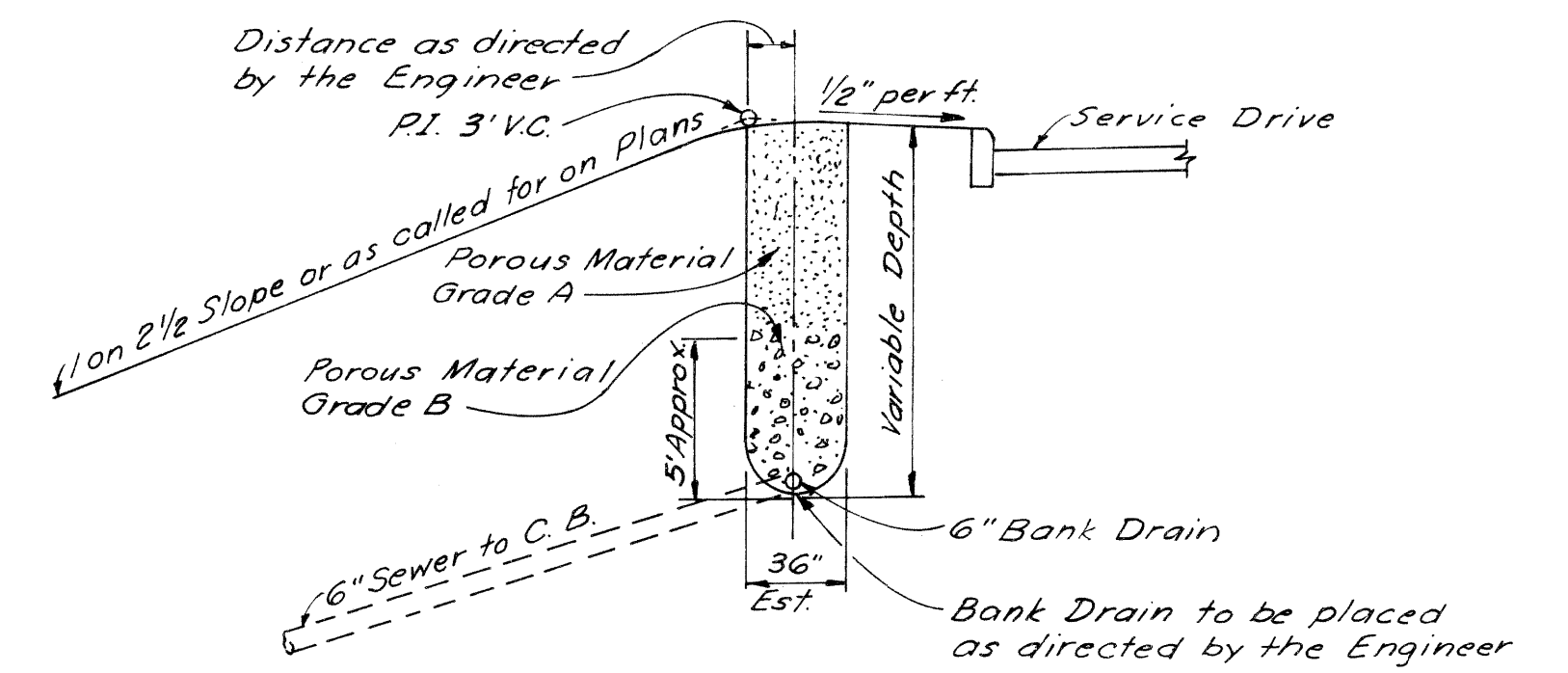
FILE NO.	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82252A C2	82252A	175-178154	3

TYPICAL CROSS-SECTIONS

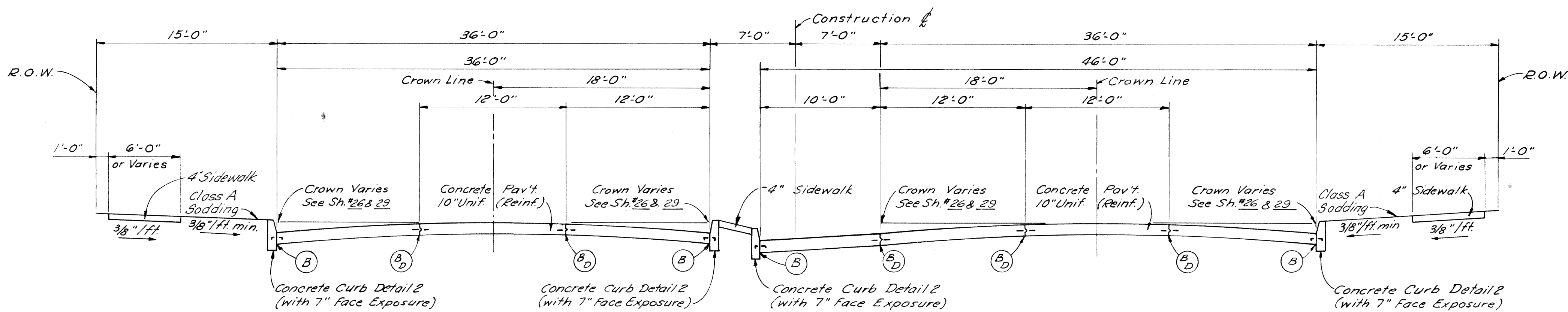
B.P.R. DIV. NO.	STATE	Fed. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-75-178-54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
1-75	82252A	Wayne	Detroit	4	
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



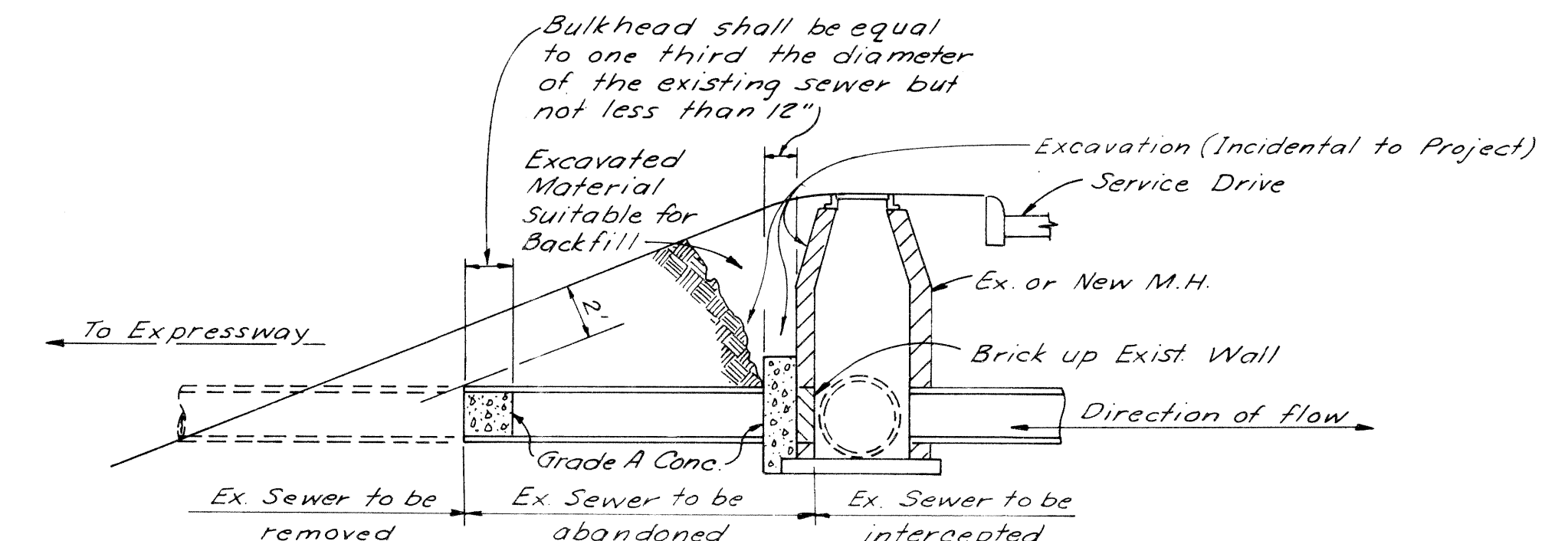
TYPICAL CROSS SECTION
EAST GRAND BOULEVARD
Scale 1"=6'



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



TYPICAL CROSS SECTION
AT LEFT TURN LANE
EAST GRAND BOULEVARD
Scale 1"=6'



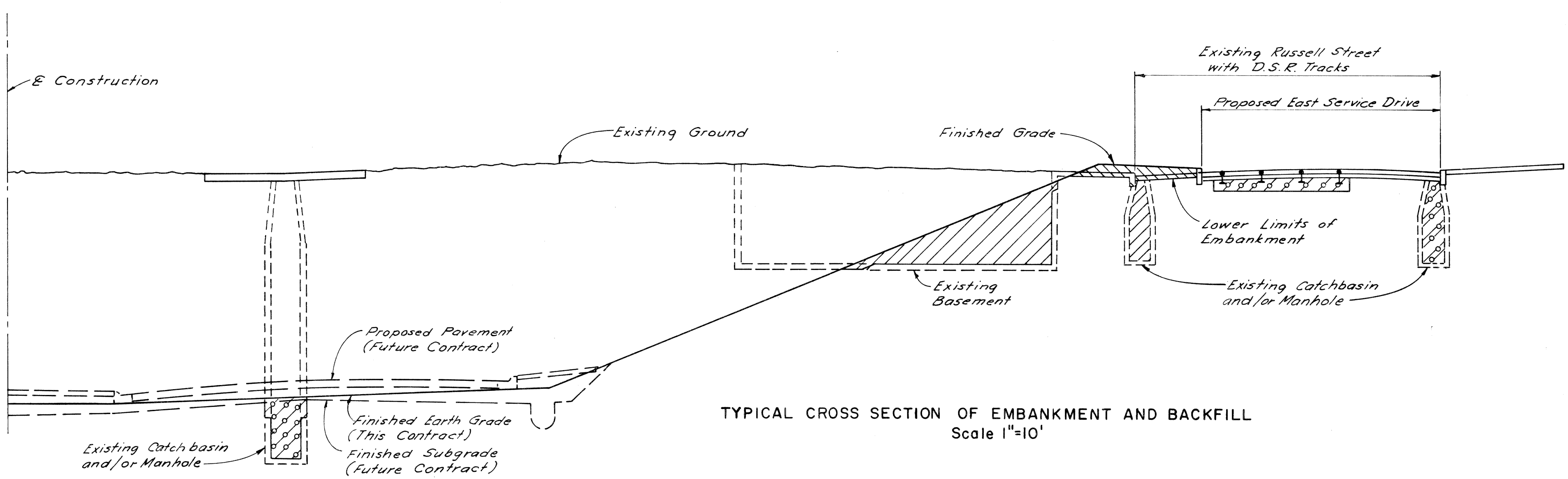
SKETCH SHOWING METHOD FOR
BULKHEADING SEVERED SEWERS

- JOINT LEGEND**
- Longitudinal Bulkhead Construction Joint according to M.S.H.D. Std. Plan E-4-A-33 G, Detail 2 --- (B)
 - Longitudinal Lane Tie Joint with Tie Bars according to M.S.H.D. Std. Plan E-4-A-33 G, Detail 1 --- (D)
 - Optional B or D --- (B, D)

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

- EARTHWORK LEGEND**
- Embankment --- (Hatched pattern)
 - Backfill --- (Hatched pattern)
 - Porous Material - Grade A --- (Hatched pattern)
 - Select Yellow Clay Backfill --- (Hatched pattern)

Embankments shall consist of all Earthwork required above the existing ground line or above the ground line after removal of top soil, pavements, curbs, sidewalks and concrete floor slabs.



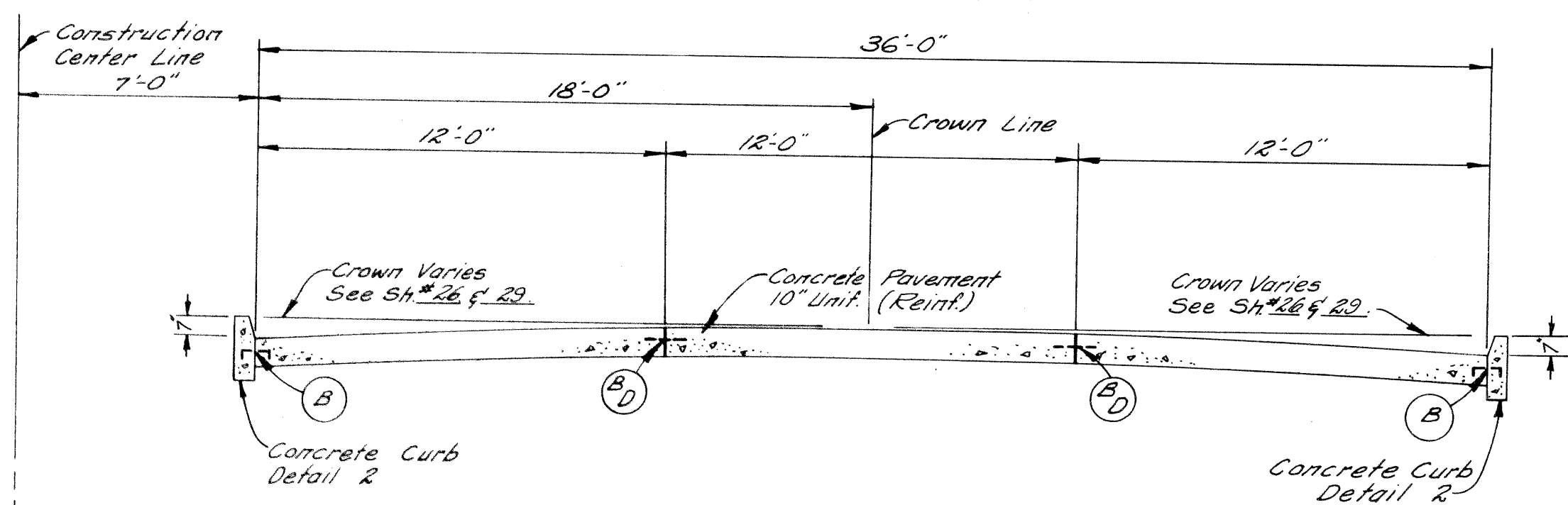
TYPICAL CROSS SECTION OF EMBANKMENT AND BACKFILL
Scale 1"=10'

EAST GRAND BOULEVARD

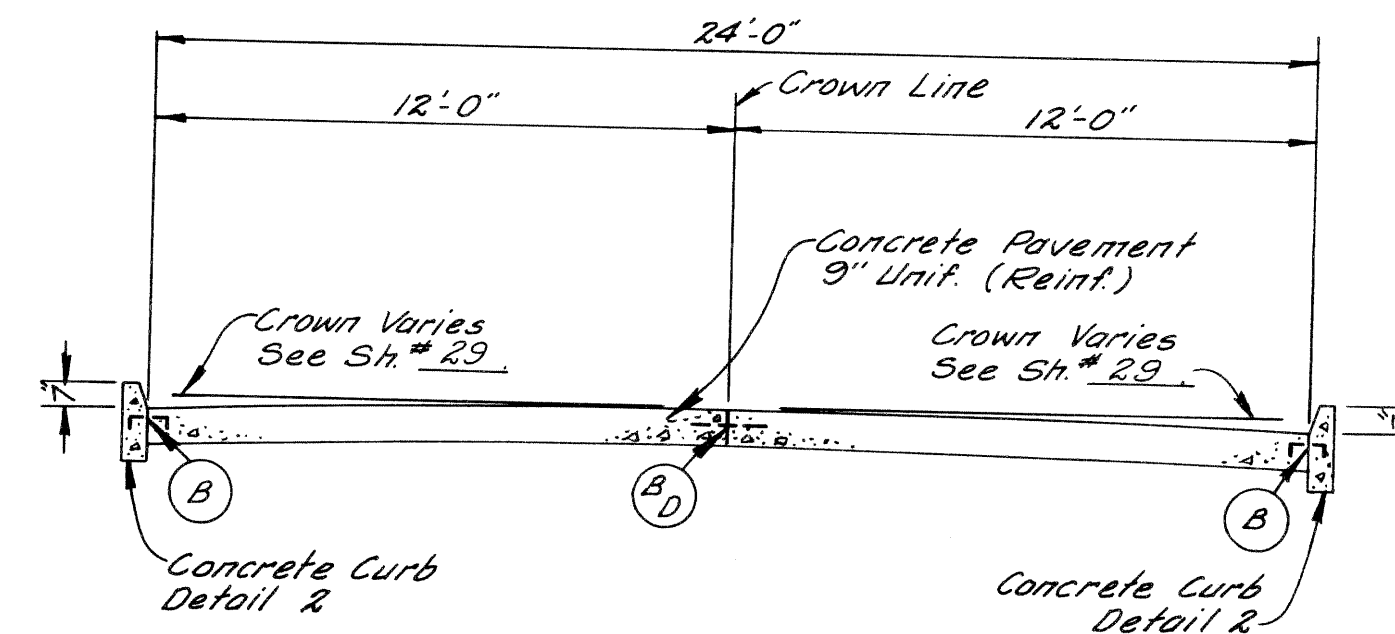
PLANS PREPARED BY
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CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

TYPICAL CROSS-SECTIONS

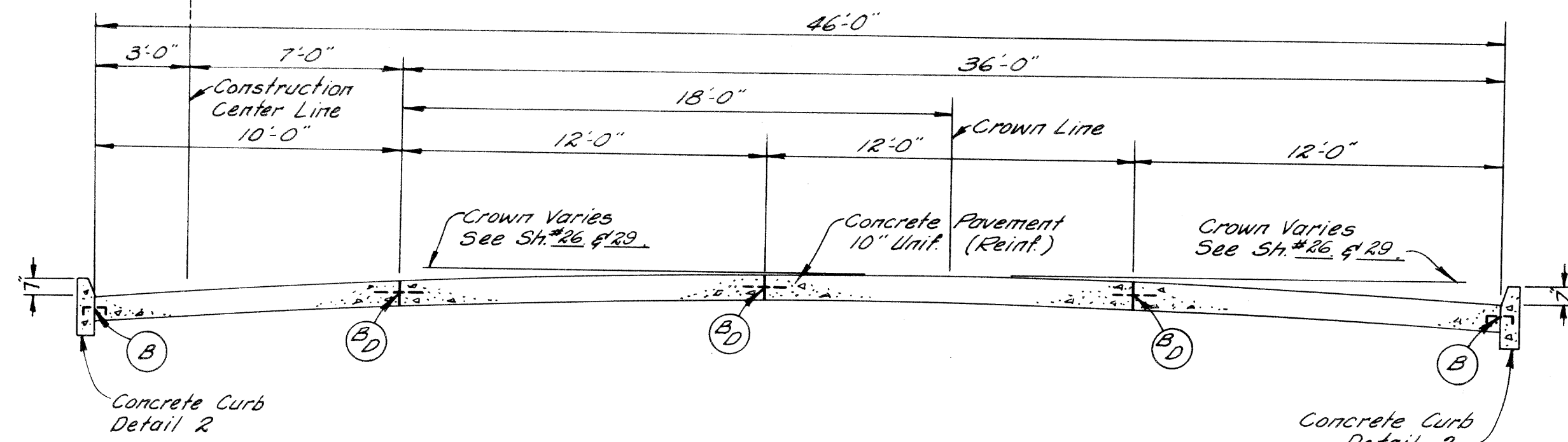
B.P.R. DIV. NO.	STATE	Fed. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-75-1(78)54			
ROUTE	STATE	PROJECT	CITY	SHEET NO.	TOTAL SHEETS
1-75	82252A	Wayne	Detroit	5	
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE	PROJECT	COUNTY	SHEET NO.	TOTAL SHEETS



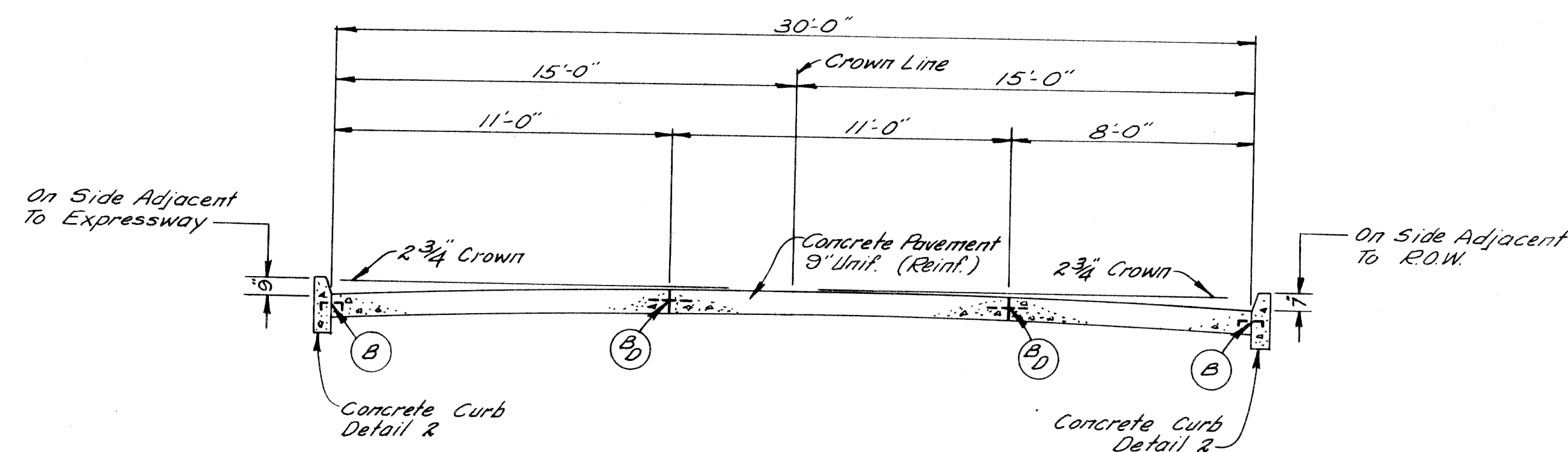
TYPICAL CROSS SECTION SHOWING
CONCRETE PAVEMENT 10" UNIFORM (REINFORCED)
TO APPLY ON EAST GRAND BOULEVARD



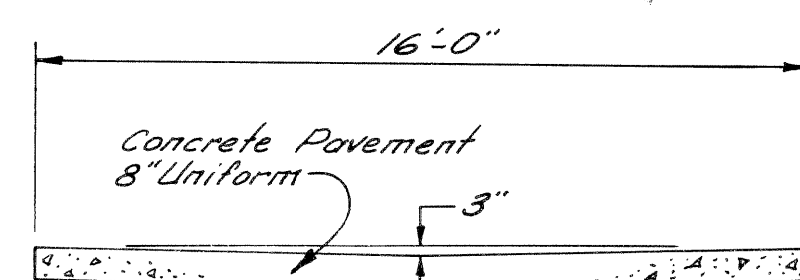
TYPICAL CROSS SECTION SHOWING
CONCRETE PAVEMENT 9" UNIFORM (REINFORCED)
TO APPLY ON SURFACE STREETS



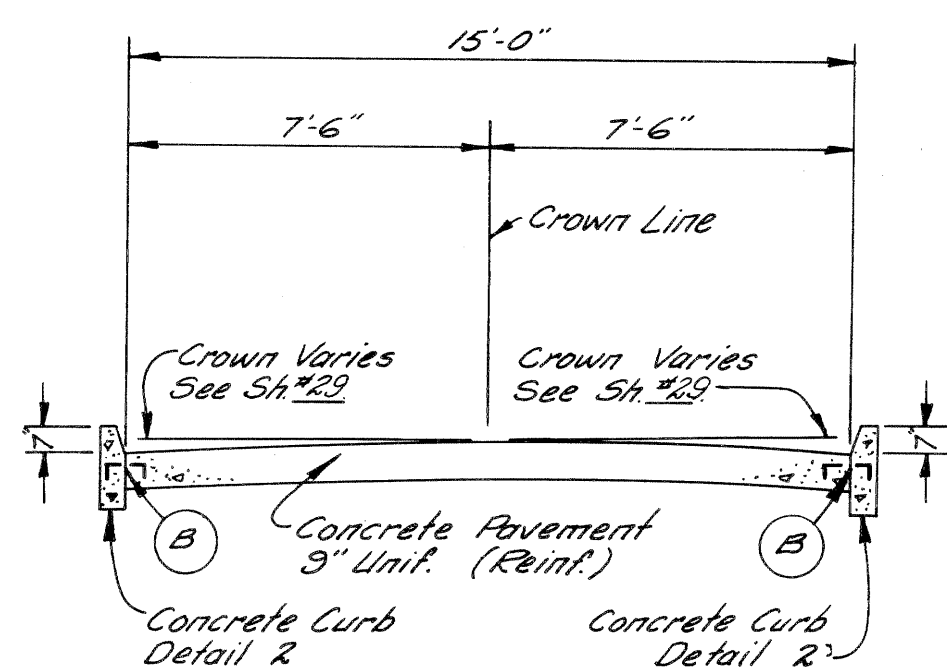
TYPICAL CROSS SECTION SHOWING
CONCRETE PAVEMENT 10" UNIFORM (REINFORCED)
TO APPLY AT LEFT TURN LANES
ON EAST GRAND BOULEVARD



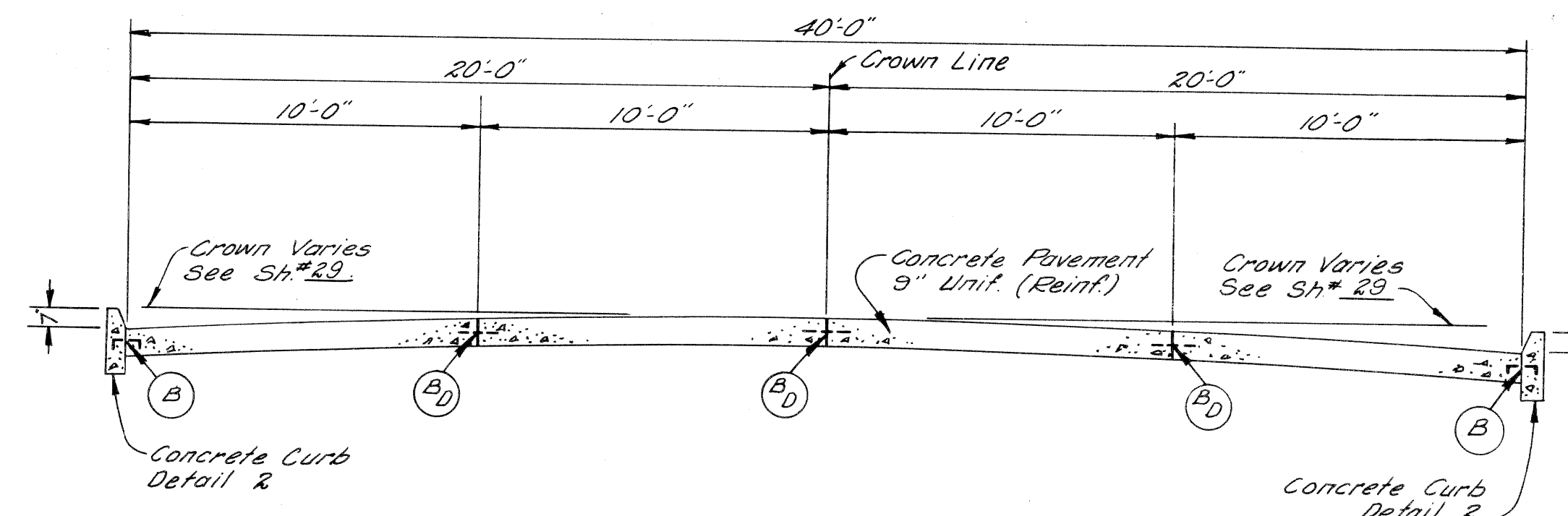
TYPICAL CROSS SECTION SHOWING
CONCRETE PAVEMENT 9" UNIFORM (REINFORCED)
TO APPLY ON 30' SERVICE DRIVE



TYPICAL CROSS SECTION SHOWING
CONCRETE PAVEMENT 8" UNIFORM
TO APPLY ON ALLEYS



TYPICAL CROSS SECTION SHOWING
CONCRETE PAVEMENT 9" UNIFORM (REINFORCED)
TO APPLY ON SURFACE STREETS



TYPICAL CROSS SECTION SHOWING
CONCRETE PAVEMENT 9" UNIFORM (REINFORCED)
TO APPLY ON RUSSELL STREET

- JOINT LEGEND**
- Longitudinal Bulkhead Construction Joint, according to M.S.H.D. Std. Plan E-4-A-336, Detail 2
 - Longitudinal Lane Tie Joint with Tie Bars, according to M.S.H.D. Std. Plan E-4-A-336, Detail 1.
 - Optional B or D

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

SCALE: 1/4" = 1'

PAVEMENT SECTIONS

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

STATE	ROUTE	PROJECT NO.	CITY	SHEET NO.	TOTAL SHEETS
MI	4	82252A	Wayne, Detroit	6	

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.

SPECIAL PROVISIONS

GRADES FOR INTERSECTIONS

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

TRANSVERSE JOINTS IN CONCRETE PAVEMENT

Transverse joints in concrete pavement shall be placed according to details on Standard Plan E-4-A-135B and E-4-A-127B

TRANSVERSE PLANE OF WEAKNESS JOINTS IN CONCRETE BASE COURSE

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

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 4.14.03-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 July, 1958. 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 Consold 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 high-way 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.

82252 A C2

Location	PLAN	As Constructed
EAST GRAND BOULEVARD	Fine Grading and Cleanup	
	Sta.	Sta.
	5.41	5.46
	7.09	7.11
WEST SERVICE DRIVE	Fine Grading and Cleanup	
	Sta.	Sta.
	5.41	5.46
	5.23	5.24
RUSSELL STREET & EAST SERVICE DRIVE	Fine Grading and Cleanup	
	Sta.	Sta.
	0.33	0.30
	2.49	2.47
TOTAL	29.94	30.12 Rec 80

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

82252 A C2

6" Bank Drain	80 Lin Ft.
6" Sewer (6.1' - 14.0' Deep) for Bank Drains	80 Lin Ft.
Excavation (Waste from Bank Drain Sewer Trenches)	103 Cu. Yds.
Porous Material - Grade A (Compacted in Place)	61 Cu. Yds.
Porous Material - Grade B (Compacted in Place)	42 Cu. Yds.
Granular Blanket	50 Cu. Yds.

82252 A C2

Restoring Roadsides	0.8 Acres
Class A Seeding	0.7 Acres
Rye Seeding	0.7 Acres
*Water, 1000 Gallon Units	1.0 Units
*Calcium Chloride Applied	012 Tons
Patching Pavement with Bituminous Material	13.0 Tons

*Incidental To The Construction Of 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.

Edge Drain	E-4-A-9F, Detail 5
Seeding	E-4-A-10D
Granular Blanket	E-4-A-10D
Pavement Reinforcement	E-4-A-21F
Grading Cross-Sections	E-4-A-26D
Manholes, Catch Basins and Inlets	E-4-A-27R-4
Cover A	E-4-A-27A-3
Cover M	E-4-A-27M
Concrete Curb, Roll Curb and Curb and Gutter	E-4-A-29F
Curb and Gutter Headers	E-4-A-29F, Detail 9
Curb and Gutter Endings	E-4-A-29F, Detail 14
Driveway Returns and Driveway Openings	E-4-A-29F
Concrete End Header (at pavement ends)	E-4-A-29F, Detail 20
Bridge Header	E-4-A-29F, Detail 21
Pavement Joints	E-4-A-33G (except that plain tie bars will not be permitted)
Superelevation of Curves	E-4-A-49B-7 (except that the rate of superelevation is to be called for on plans.)
Pavement Crowns	E-4-A-49B-7
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-127B
Tile Trap	E-4-A-129
Dowel Bar Installation for Load Transfer at Transverse Contraction and Expansion Joints	According to Special Detail.
Base Plates for Transverse Pavement Joints	E-4-A-138 (except that spot welds may be substituted for rivets to attach the one inch angle.)
Location of Transverse Expansion and Contraction Joints in Concrete Pavement	E-4-A-135B
Barricade and Project Sign	E-6-A-55E
Steel Beam Guard Rail	E-4-A-137D

NOTES & SPECIAL PROVISIONS

DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND SUPERVISOR

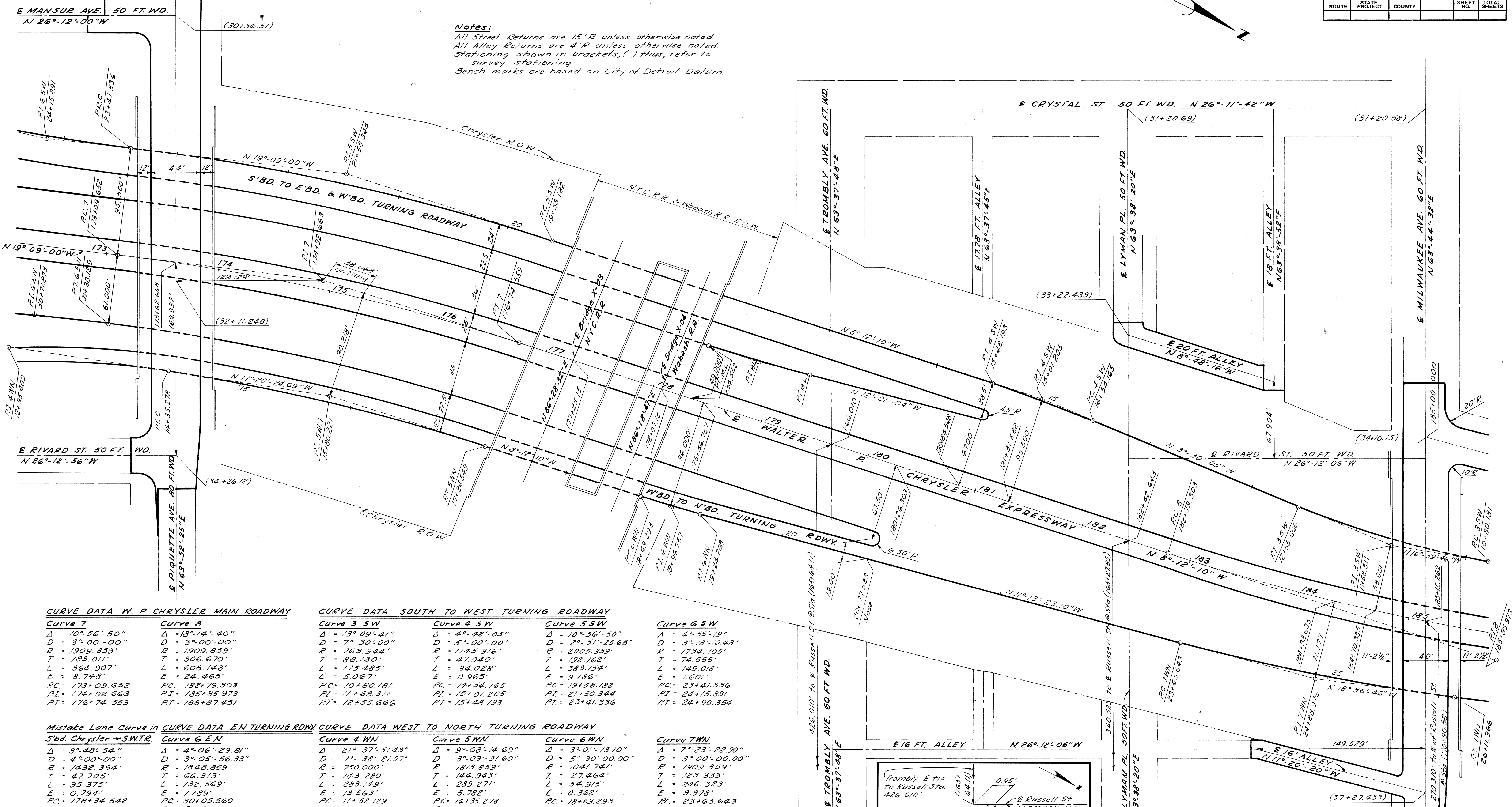
J.V. WICKERY
 5/19/64
 Allen E. ...
 H.A. ...

C.B.M.#151 Elev. 156.621 Arrow on Hydrant. N.W. corner of Rivard St. and Piquette Ave. C.B.M.#153 Elev. 145.042 Arrow on Hydrant. N.W. corner of Russell St. and Piquette Ave. C.B.M.#159 Elev. 154.591 Arrow on Hydrant. N.E. corner of Russell St. and Trombly Ave. C.B.M.#155 Elev. 148.093 Arrow on Hydrant. N. side of Milwaukee Ave., 300' E. of C.B.M. 154. C.B.M.#157 Elev. 153.502 Arrow on Hydrant. N.W. corner of Russell St. and Milwaukee Ave.

C.B.M.#152 Elev. 155.134 Arrow on Hydrant. S.E. Corner of Rivard St. and Piquette Ave. C.B.M.#160 Elev. 145.043 Arrow on Hydrant. E. side of Russell St., 238' N. of Piquette Ave. C.B.M.#158 Elev. 153.352 Arrow on Hydrant. N.E. corner of Russell St. and Lyman Place. C.B.M.#156 Elev. 154.023 Arrow on Hydrant. N.W. corner Rivard St. and Milwaukee Ave. C.B.M.#154 Elev. 148.022 Arrow on Hydrant. N.E. corner Hastings St. and Milwaukee Ave.

S.P.R. DIV. NO.	STATE	FED. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	I-75-1785A			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
I-75	82252A	Wayne	Detroit	7	
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

Notes:
 All Street Returns are 15'R unless otherwise noted.
 All Alley Returns are 4'R unless otherwise noted.
 Stationing shown in brackets, () thus, refer to survey stationing.
 Bench marks are based on City of Detroit Datum.



CURVE DATA W. P. CHRYSLER MAIN ROADWAY

Curve 7	Curve 8
Δ = 10° 56' 50"	Δ = 18° 12' 40"
D = 3° 00' 00"	D = 3° 00' 00"
R = 1909.859'	R = 1909.859'
T = 183.011'	T = 306.670'
L = 364.907'	L = 608.148'
E = 8.748'	E = 24.465'
PC = 173+09.652	PC = 182+79.303
PI = 174+92.663	PI = 185+85.973
PT = 176+74.559	PT = 188+87.451

CURVE DATA SOUTH TO WEST TURNING ROADWAY

Curve 3 SW	Curve 4 SW	Curve 5 SW
Δ = 13° 09' 41"	Δ = 4° 42' 05"	Δ = 10° 56' 50"
D = 7° 30' 00"	D = 5° 00' 00"	D = 2° 51' 25.68"
R = 763.944'	R = 1445.916'	R = 2005.359'
T = 88.130'	T = 47.040'	T = 192.162'
L = 175.485'	L = 94.028'	L = 383.154'
E = 5.067'	E = 0.965'	E = 9.186'
PC = 10+80.181	PC = 14+54.165	PC = 19+58.182
PI = 11+68.311	PI = 15+01.205	PI = 21+50.344
PT = 12+55.666	PT = 15+48.193	PT = 23+41.336

Curve 6 SW

Δ = 4° 55' 19"	Δ = 4° 55' 19"
D = 3° 18' 10.48"	D = 3° 18' 10.48"
R = 1734.705'	R = 1734.705'
T = 74.555'	T = 74.555'
L = 149.018'	L = 149.018'
E = 1.601'	E = 1.601'
PC = 23+41.336	PC = 23+41.336
PI = 24+15.891	PI = 24+15.891
PT = 24+90.354	PT = 24+90.354

Mistake Lane Curve in CURVE DATA EN TURNING RDWY

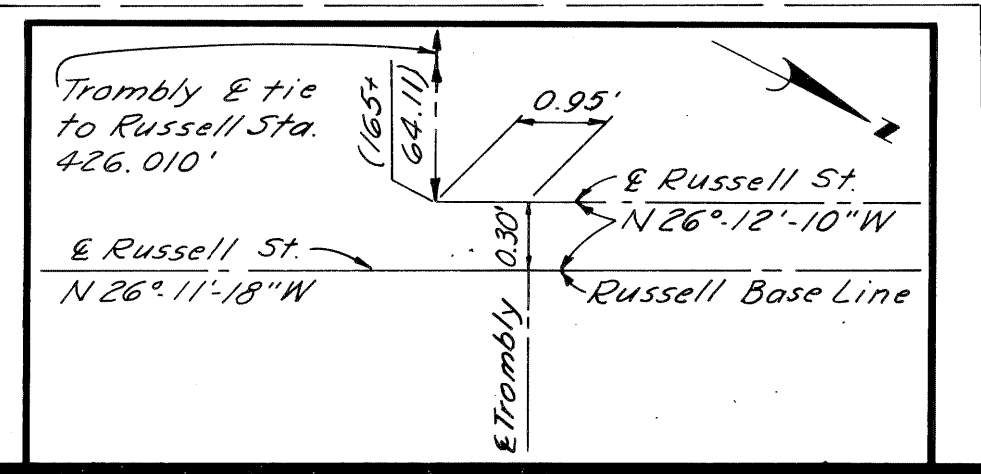
S'bd Chrysler → S.W.T.R.	Curve 6 EN
Δ = 3° 48' 54"	Δ = 4° 06' 29.81"
D = 4° 00' 00"	D = 3° 05' 56.33"
R = 1432.394'	R = 1848.859'
T = 47.705'	T = 66.313'
L = 95.375'	L = 132.569'
E = 0.794'	E = 1.189'
PC = 178+34.542	PC = 30+05.560
PI = -	PI = 30+71.873
PT = -	PT = 31+38.129

CURVE DATA WEST TO NORTH TURNING ROADWAY

Curve 4 WN	Curve 5 WN	Curve 6 WN
Δ = 21° 37' 51.43"	Δ = 9° 08' 14.69"	Δ = 3° 01' 13.10"
D = 7° 38' 21.97"	D = 3° 09' 31.60"	D = 5° 30' 00.00"
R = 750.000'	R = 1813.859'	R = 1041.741'
T = 143.280'	T = 144.943'	T = 27.462'
L = 283.149'	L = 289.271'	L = 54.915'
E = 13.563'	E = 5.782'	E = 0.362'
PC = 11+52.129	PC = 14+35.278	PC = 18+69.293
PI = 12+95.409	PI = 15+80.221	PI = 18+96.757
PT = 14+35.278	PT = 17+24.549	PT = 19+24.208

Curve 7 WN

Δ = 7° 23' 22.90"	Δ = 7° 23' 22.90"
D = 3° 00' 00.00"	D = 3° 00' 00.00"
R = 1909.859'	R = 1909.859'
T = 123.333'	T = 123.333'
L = 246.323'	L = 246.323'
E = 3.978'	E = 3.978'
PC = 23+65.643	PC = 23+65.643
PI = 24+88.976	PI = 24+88.976
PT = 26+11.966	PT = 26+11.966



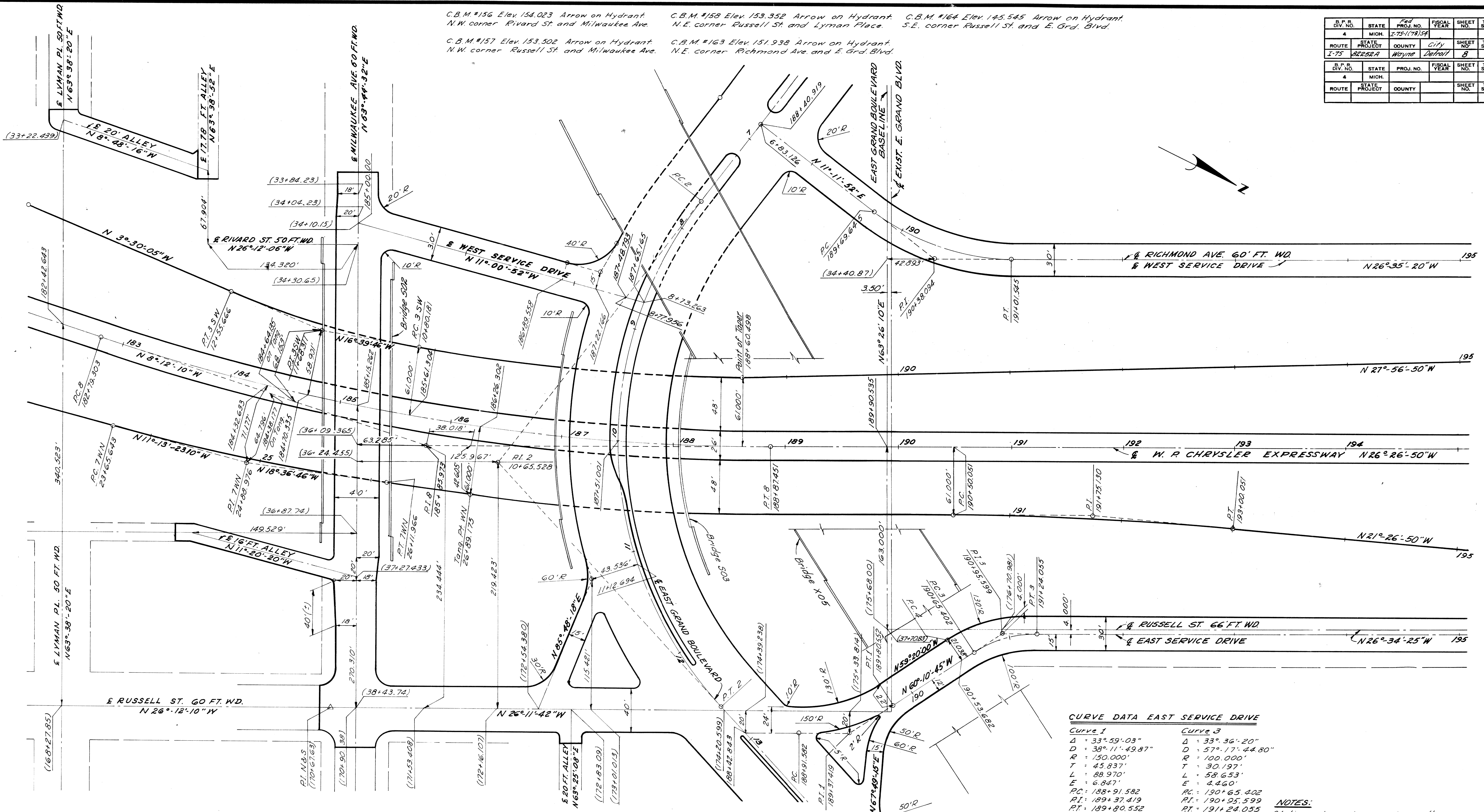
ALIGNMENT OF WALTER P CHRYSLER EXPRESSWAY STA. 173+00 TO STA. 185+00 S'BD. CHRYSLER TO E'BD. AND W'BD. FORD TURNING ROADWAY AND W'BD. FORD TO N'BD. CHRYSLER TURNING ROADWAY

Scale: 1" = 40'

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

B.P.R. DIV. NO.	STATE	FED. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	I-75(178)5A			
ROUTE	STATE	PROJECT	CITY	SHEET NO.	TOTAL SHEETS
I-75	MI	82252A	Wayne Detroit	8	8
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE	PROJECT	COUNTY	SHEET NO.	TOTAL SHEETS

C.B.M. #156 Elev. 154.023 Arrow on Hydrant. N.W. corner Rivard St. and Milwaukee Ave.
 C.B.M. #157 Elev. 153.502 Arrow on Hydrant. N.W. corner Russell St. and Milwaukee Ave.
 C.B.M. #158 Elev. 153.352 Arrow on Hydrant. N.E. corner Russell St. and Lyman Place.
 C.B.M. #159 Elev. 151.938 Arrow on Hydrant. N.E. corner Richmond Ave. and E. Grd. Blvd.
 C.B.M. #164 Elev. 145.545 Arrow on Hydrant. S.E. corner Russell St. and E. Grd. Blvd.



CURVE DATA EAST SERVICE DRIVE

Curve 1	Curve 3
Δ = 33° 59' 03"	Δ = 33° 36' 20"
D = 38° 11' 49.87"	D = 57° 17' 44.80"
R = 150.000'	R = 100.000'
T = 45.837'	T = 30.197'
L = 88.970'	L = 58.653'
E = 6.847'	E = 4.460'
PC = 188+91.582	PC = 190+65.402
PI = 189+37.419	PI = 190+95.599
PT = 189+80.552	PT = 191+24.055

NOTES:
 Stations shown in parenthesis thus () are existing survey stations.
 Work This Sheet With Sheet # 9
 All Street Returns are 15'R unless otherwise noted
 All Alley Returns are 4'R unless otherwise noted

CURVE DATA W.R. CHRYSLER MAIN RDWY

Curve 8
Δ = 18° 14' 40"
D = 3° 00' 00"
R = 1909.859'
T = 306.670'
L = 608.148'
E = 24.465'
PC = 182+79.303
PI = 185+85.973
PT = 188+87.451

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

Curve 3 SW
Δ = 13° 09' 41"
D = 7° 30' 00"
R = 763.944'
T = 88.130'
L = 175.485'
E = 5.067'
PC = 10+80.181
PI = 11+68.311
PT = 12+55.666

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

Curve 7 WN
Δ = 7° 23' 22.90"
D = 3° 00' 00.00"
R = 1909.859'
T = 123.333'
L = 246.323'
E = 3.978'
PC = 23+65.643
PI = 191+75.130
PT = 26+11.966

CURVE DATA EXIT RAMP

Δ = 5° 00' 00"
D = 2° 00' 00.00"
R = 2864.789'
T = 125.079'
L = 250.000'
E = 2.729'
PC = 190+50.051
PI = 191+75.130
PT = 193+00.051

CURVE DATA WEST SERVICE DRIVE

Curve West Service Dr.
Δ = 37° 47' 12"
D = 28° 38' 52.40"
R = 200.00'
T = 68.449'
L = 131.900'
E = 11.389'
PC = 189+69.645
PI = 190+38.094
PT = 191+01.545

ALIGNMENT OF WALTER P. CHRYSLER EXPRESSWAY STA. 183+00 TO STA. 194+00 S'BD. CHRYSLER TO E'BD. AND W'BD. FORD TURNING ROADWAY AND W'BD. FORD TO N'BD. CHRYSLER TURNING ROADWAY

PLANS PREPARED BY
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 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

C.B.M. #156 Elev. 154.023 Arrow on Hydrant
N.W. Corner Rhoad St. and Milwaukee Ave.

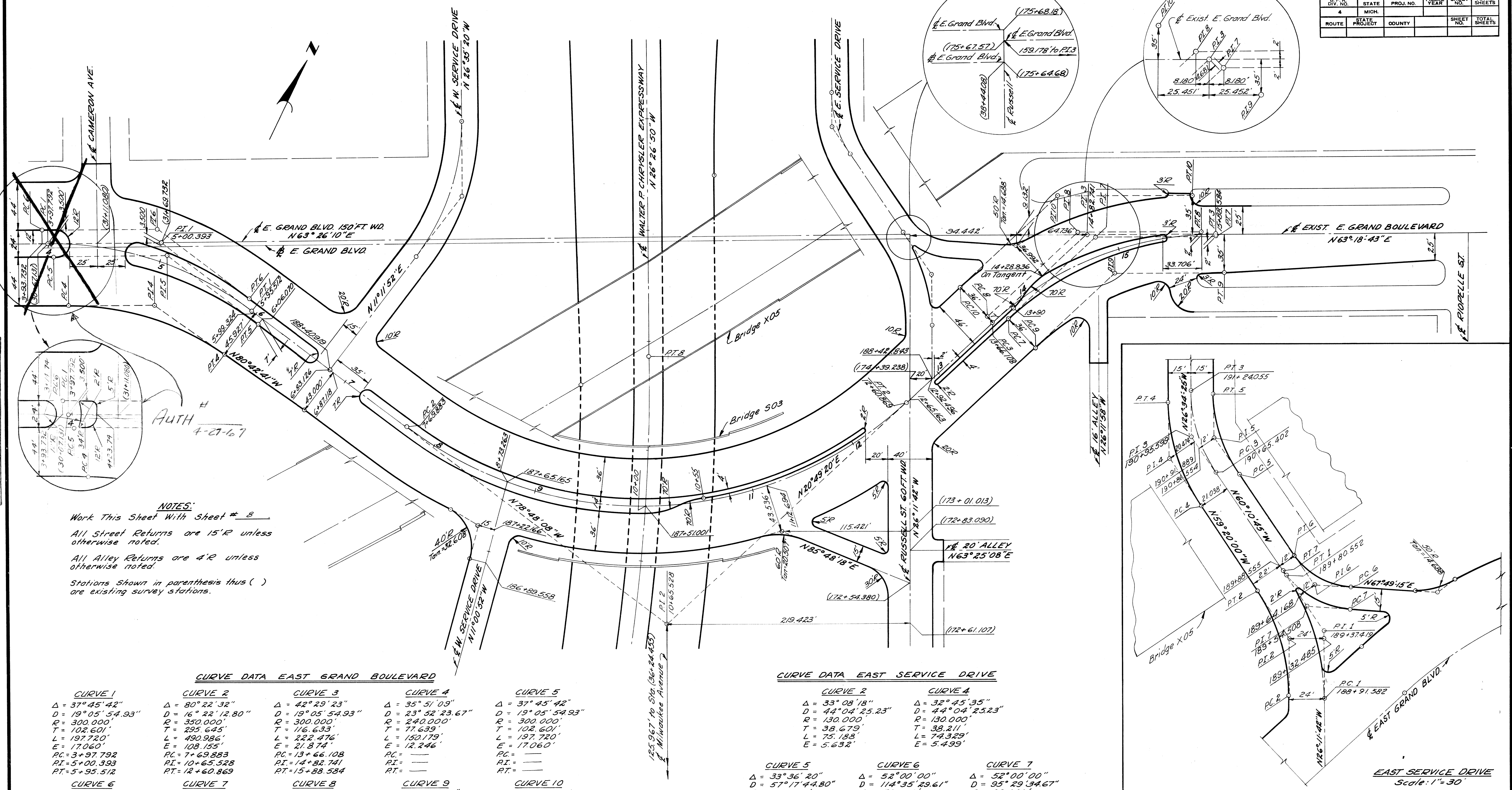
C.B.M. #163 Elev. 151.938 Arrow on Hydrant
N.E. Corner Richmond Ave. and E. Grand Blvd.

C.B.M. #164 Elev. 145.545 Arrow on Hydrant
S.E. Corner Russell St. and E. Grand Blvd.

C.B.M. #157 Elev. 153.502 Arrow on Hydrant
N.W. Corner Russell St. and Milwaukee Ave.

S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	I-75/178/54		9	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
I-75	82252A	Wayne	Detroit	9	
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

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NOTES:
Work This Sheet With Sheet # 8
All Street Returns are 15'R unless otherwise noted.
All Alley Returns are 4'R unless otherwise noted.
Stations Shown in parenthesis thus () are existing survey stations.

CURVE DATA EAST GRAND BOULEVARD

CURVE 1	CURVE 2	CURVE 3	CURVE 4	CURVE 5
Δ = 37° 45' 42"	Δ = 80° 22' 32"	Δ = 42° 29' 23"	Δ = 35° 51' 09"	Δ = 37° 45' 42"
D = 19° 05' 54.93"	D = 16° 22' 12.80"	D = 19° 05' 54.93"	D = 23° 52' 23.67"	D = 19° 05' 54.93"
R = 300.000'	R = 350.000'	R = 300.000'	R = 240.000'	R = 300.000'
T = 102.601'	T = 295.645'	T = 116.633'	T = 77.639'	T = 102.601'
L = 197.720'	L = 490.986'	L = 222.476'	L = 150.179'	L = 197.720'
E = 170.60'	E = 108.155'	E = 21.874'	E = 12.246'	E = 170.60'
PC = 3+97.792	PC = 7+69.883	PC = 13+66.108	PC =	PC =
PI = 5+00.393	PI = 10+65.528	PI = 14+82.741	PI =	PI =
PT = 5+95.512	PT = 12+60.869	PT = 15+88.584	PT =	PT =

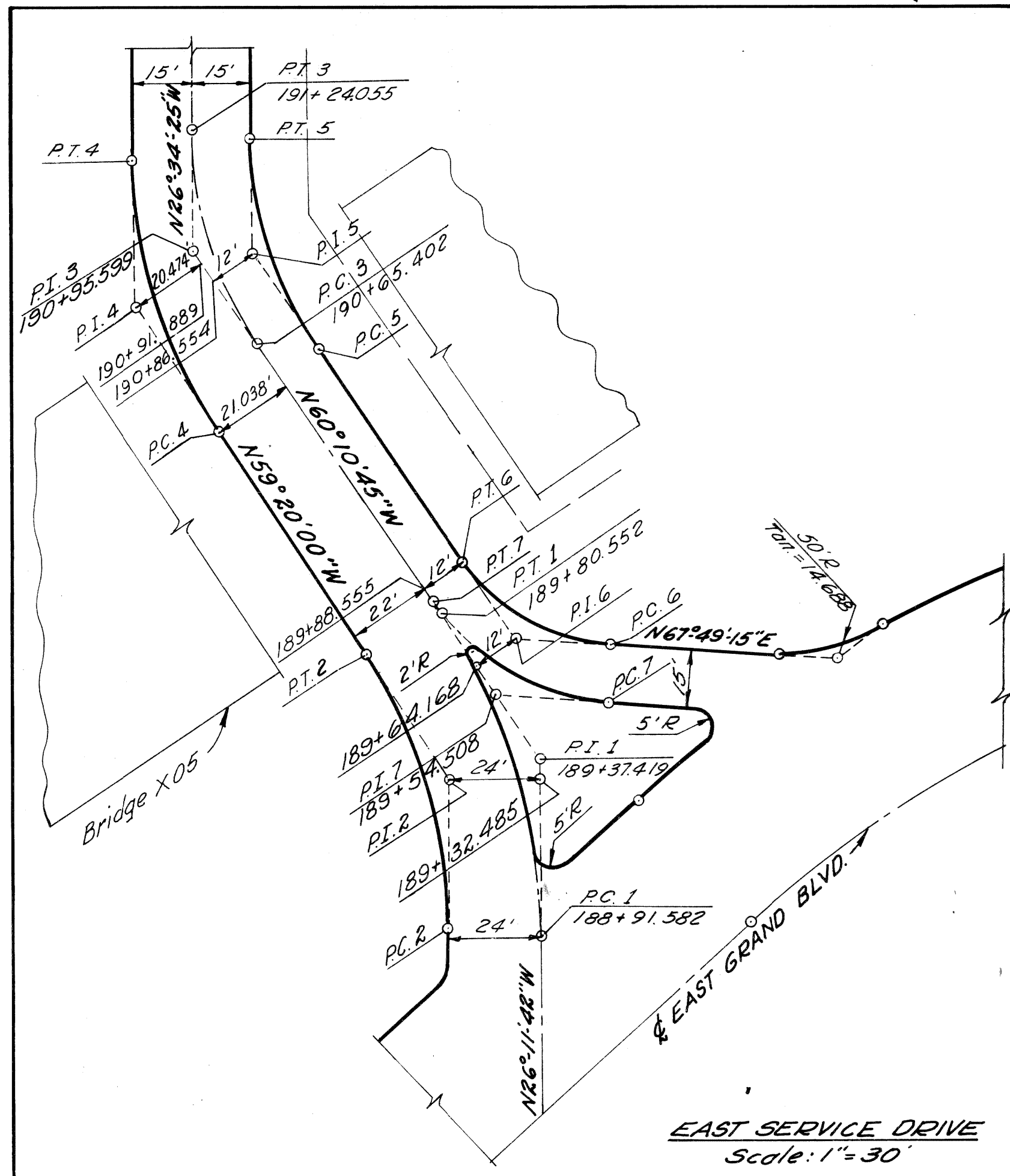
CURVE 6	CURVE 7	CURVE 8	CURVE 9	CURVE 10
Δ = 37° 45' 42"	Δ = 42° 29' 23"	Δ = 42° 29' 23"	Δ = 42° 29' 23"	Δ = 42° 29' 23"
D = 19° 05' 54.93"	D = 20° 32' 20.64"	D = 19° 53' 49.42"	D = 22° 31' 22.76"	D = 18° 19' 57.35"
R = 300.000'	R = 278.960'	R = 287.961'	R = 254.388'	R = 312.535'
T = 102.601'	T = 108.453'	T = 111.958'	T = 98.900'	T = 121.506'
L = 197.720'	L = 206.873'	L = 213.548'	L = 188.650'	L = 231.771'
E = 170.60'	E = 20.340'	E = 20.997'	E = 18.549'	E = 22.788'

CURVE DATA EAST SERVICE DRIVE

CURVE 2	CURVE 4
Δ = 33° 08' 18"	Δ = 32° 45' 35"
D = 44° 04' 25.23"	D = 44° 04' 25.23"
R = 130.000'	R = 130.000'
T = 38.679'	T = 38.211'
L = 75.183'	L = 74.329'
E = 5.632'	E = 5.499'

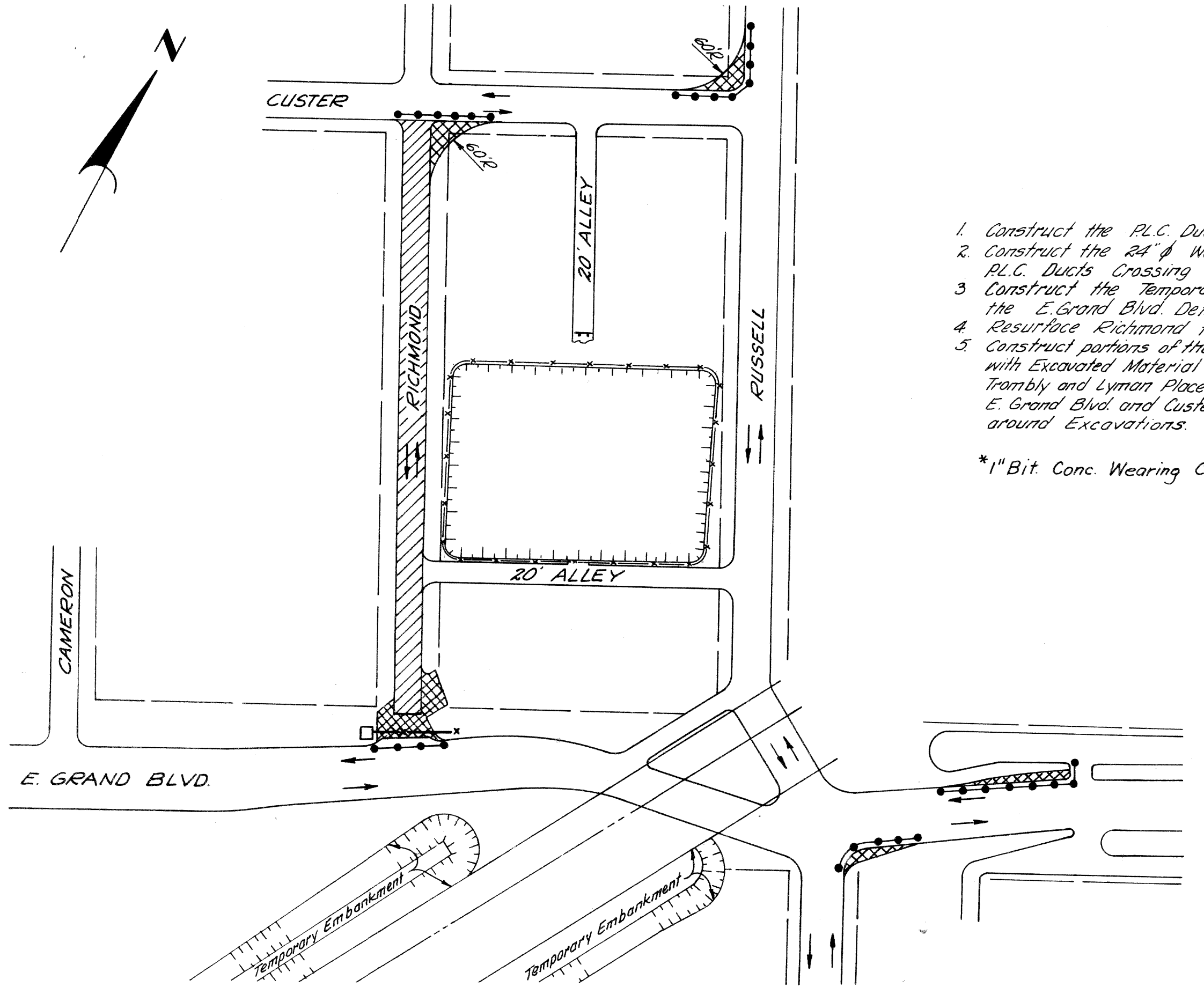
CURVE 5	CURVE 6	CURVE 7
Δ = 33° 36' 20"	Δ = 52° 00' 00"	Δ = 52° 00' 00"
D = 57° 17' 44.80"	D = 114° 35' 29.61"	D = 95° 29' 34.67"
R = 100.000'	R = 50.000'	R = 60.000'
T = 30.197'	T = 24.387'	T = 23.264'
L = 58.653'	L = 45.379'	L = 54.454'
E = 4.460'	E = 5.630'	E = 6.756'

PLAN
Scale: 1" = 40'



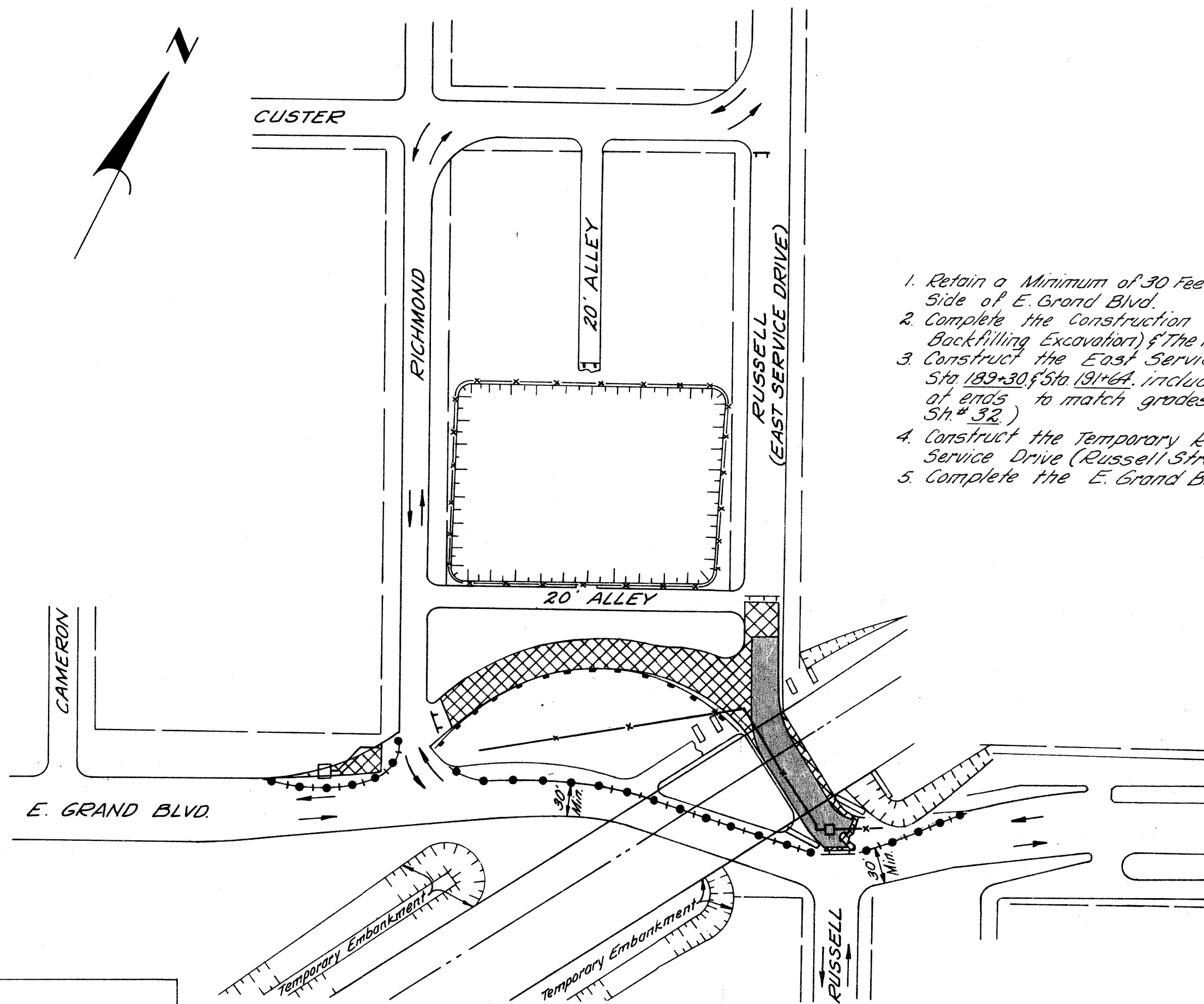
ALIGNMENT OF EAST GRAND BOULEVARD STA. 3+90 TO STA. 16+00
AND EAST SERVICE DRIVE STA. 188+42 TO STA. 192+00
Scale: 1" = 30'

D.P.R. DIV. NO.	STATE	Fed. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	I-75-1(78)51			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
I-75	82252A	Wayne	Detroit	10	
D.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	SHEET NO.	TOTAL SHEETS	



1. Construct the P.L.C. Ducts in Exist. E. Grand Blvd.
2. Construct the 24" Water Main & the Temporary P.L.C. Ducts Crossing Richmond.
3. Construct the Temporary Pavement of a portion of the E. Grand Blvd. Detour Adjacent to Richmond.
4. Resurface Richmond from Custer to E. Grand Blvd. *
5. Construct portions of the Temporary Railroad Embankments with Excavated Material obtained from Excavation between Trambly and Lyman Place; and between Alley North of E. Grand Blvd. and Custer. Place Protective Fencing around Excavations.

*1" Bit Conc. Wearing Course

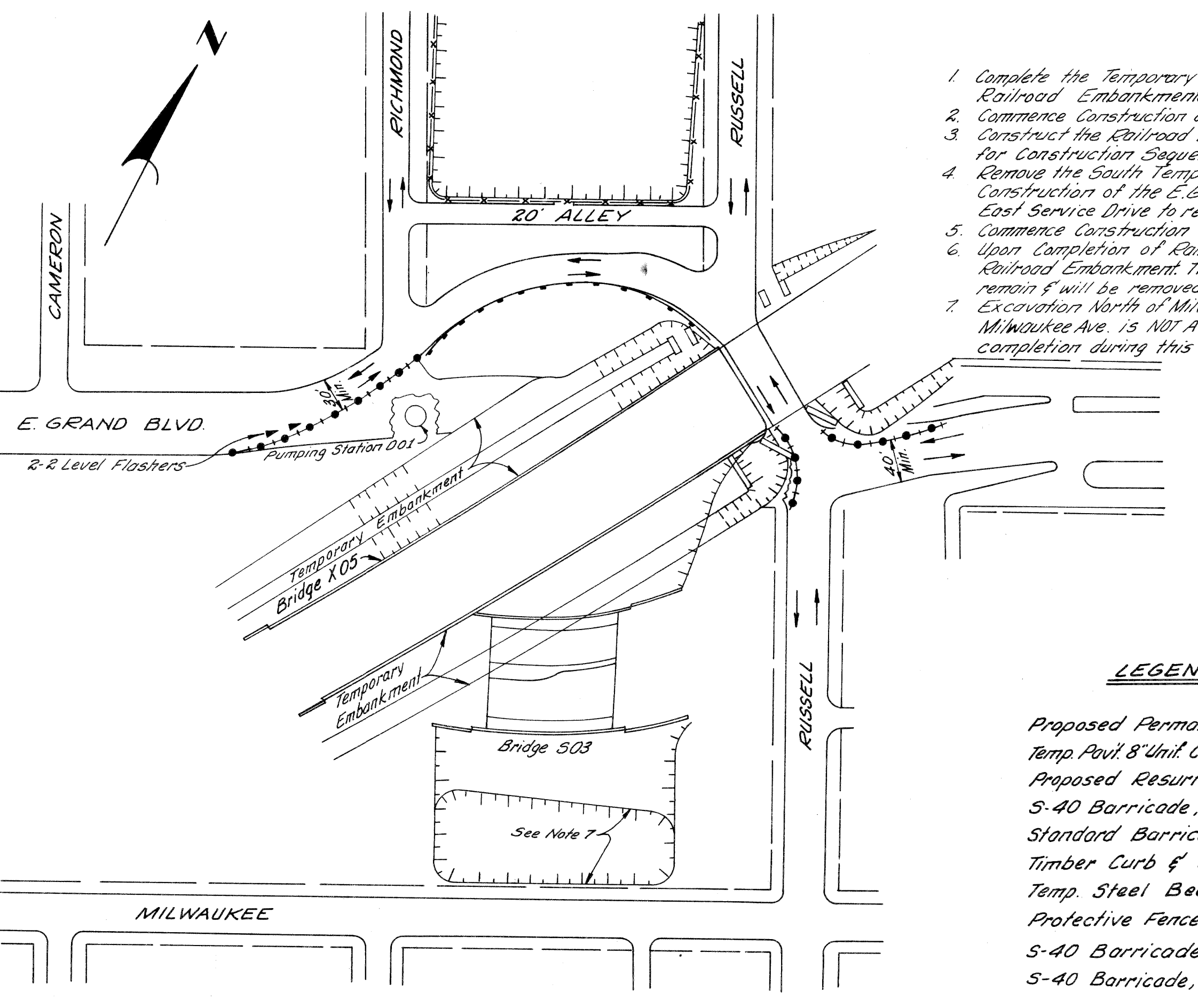


1. Retain a Minimum of 30 Feet for Traffic along the South Side of E. Grand Blvd.
2. Complete the Construction of the 24" Water Main (including Backfilling Excavation) of the Temporary P.L.C. Ducts & Sewers.
3. Construct the East Service Drive (Russell Street) between Sta 182+30 to Sta 190+00, including the Temporary Pavement of ends to match grades of Existing Roadway (See Sh. # 32.)
4. Construct the Temporary Railroad Trestles over East Service Drive (Russell Street).
5. Complete the E. Grand Blvd. Detour.

Earthwork (This Sheet)
 Earth Excavation - 288 Cu. Yds.
 Waste - 288 Cu. Yds.

STAGE I STAGE II
 STAGE III STAGE IV

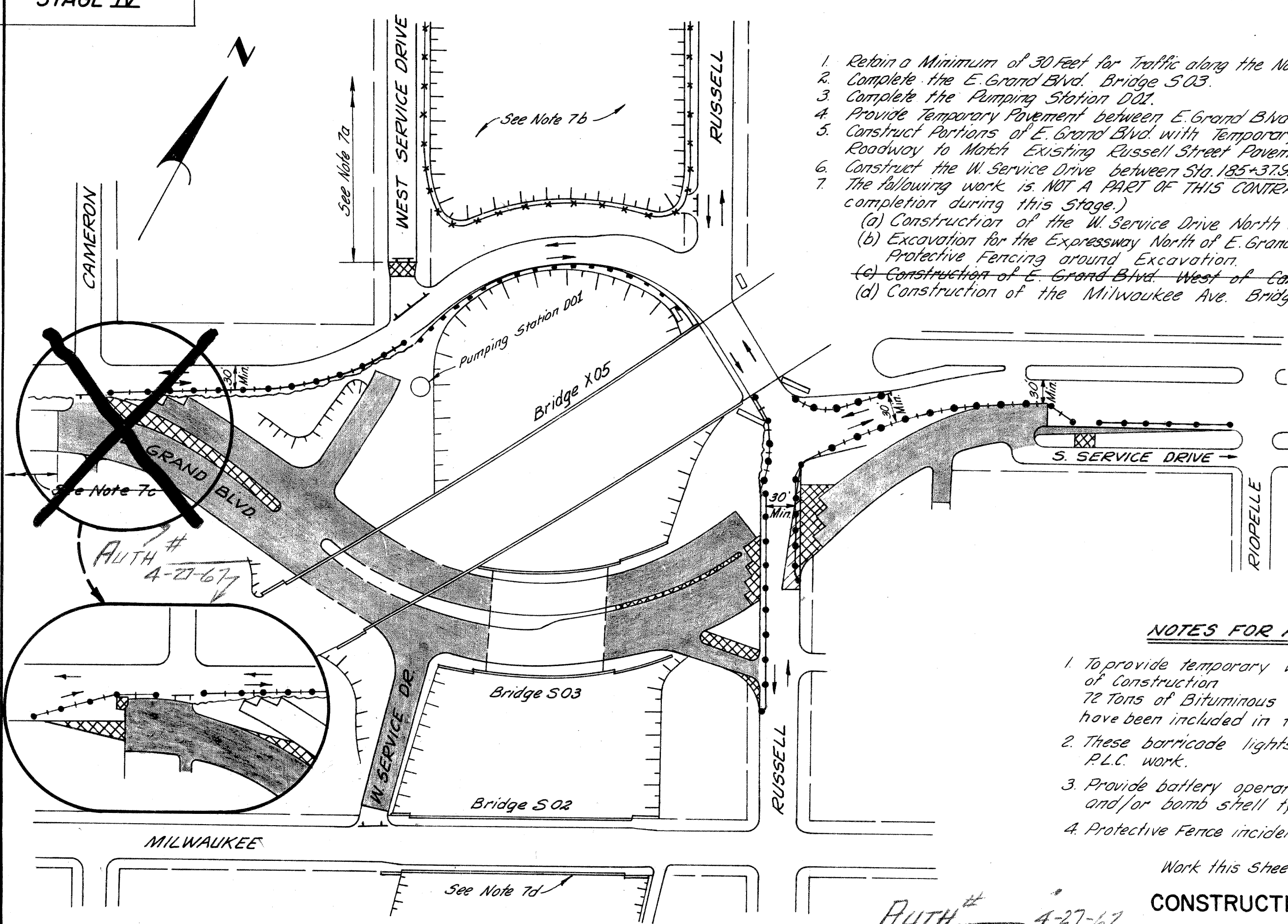
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1. Complete the Temporary Railroad Trestles & the Temporary Railroad Embankments.
2. Commence Construction on Pumping Station D01.
3. Construct the Railroad Bridge X05 (See Bridge Sh. # 209 & 210 for Construction Sequence).
4. Remove the South Temporary Railroad Embankment to Permit Construction of the E. Grand Blvd. Bridge 503. The Trestle over the East Service Drive to remain & will be removed in Stage IV.
5. Commence Construction of the E. Grand Blvd. Bridge 503.
6. Upon Completion of Railroad Bridge X05, Remove the North Temporary Railroad Embankment. The Trestle over the East Service Drive to remain & will be removed in Stage IV.
7. Excavation North of Milwaukee Ave. to permit relocation of Utilities from Milwaukee Ave. is NOT A PART OF THIS CONTRACT (but is scheduled for completion during this Stage).

LEGEND FOR ALL STAGES

- Proposed Permanent Pavement - [Pattern]
- Temp. Pavt. & Unit. Conc. - [Pattern]
- Proposed Resurfacing - [Pattern]
- S-40 Barricade, with Lights (See Note 2) - [Symbol]
- Standard Barricade (See Note 3) - [Symbol]
- Timber Curb & Snow Fence (See Note 3) - [Symbol]
- Temp. Steel Beam Guard Rail - [Symbol]
- Protective Fence (See Note 4) - [Symbol]
- S-40 Barricade - (See Note 3) - [Symbol]
- S-40 Barricade, Modified, with Lights (See Note 2) - [Symbol]



1. Retain a Minimum of 30 Feet for Traffic along the North Side of E. Grand Blvd.
2. Complete the E. Grand Blvd. Bridge 503.
3. Complete the Pumping Station D01.
4. Provide Temporary Pavement between E. Grand Blvd. & S. Service Drive.
5. Construct Portions of E. Grand Blvd. with Temporary Pavement on Eastbound Roadway to Match Existing Russell Street Pavement.
6. Construct the W. Service Drive between Sta 185+37.91 & Sta 190+00.
7. The following work is NOT A PART OF THIS CONTRACT, (but is scheduled for completion during this Stage.)
 - (a) Construction of the W. Service Drive North of Sta 191+50
 - (b) Excavation for the Expressway North of E. Grand Blvd. Detour & placing Protective Fencing around Excavation.
 - (c) Construction of E. Grand Blvd. West of Cameron.
 - (d) Construction of the Milwaukee Ave. Bridge 502.

NOTES FOR ALL STAGES:

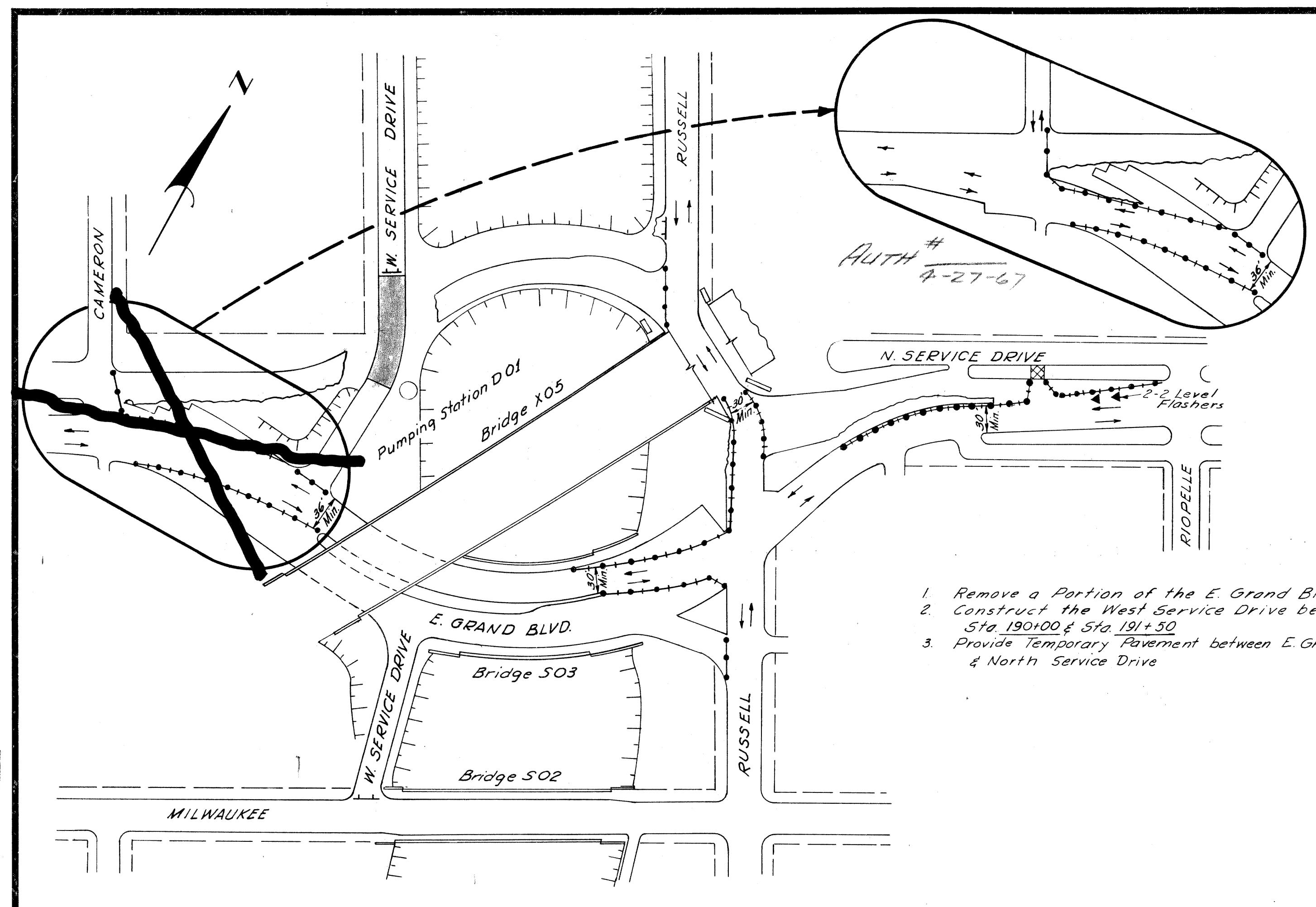
1. To provide temporary walk during all stages of construction 72 tons of Bituminous Concrete Wearing Course have been included in this Contract.
2. These barricade lights are a part of the P.L.C. work.
3. Provide battery operated warning Flashers and/or bomb shell type lights.
4. Protective Fence incidental to Earth Excavation

Work this Sheet with Sh. # 11 & # 32
CONSTRUCTION SEQUENCE

3/29/64	J.V. WICKERY
3/29/64	M. ROLLITO
3/29/64	J.V. WICKERY
4/1/64	W. C. ...
4/1/64	H. H. ...
4/1/64	...

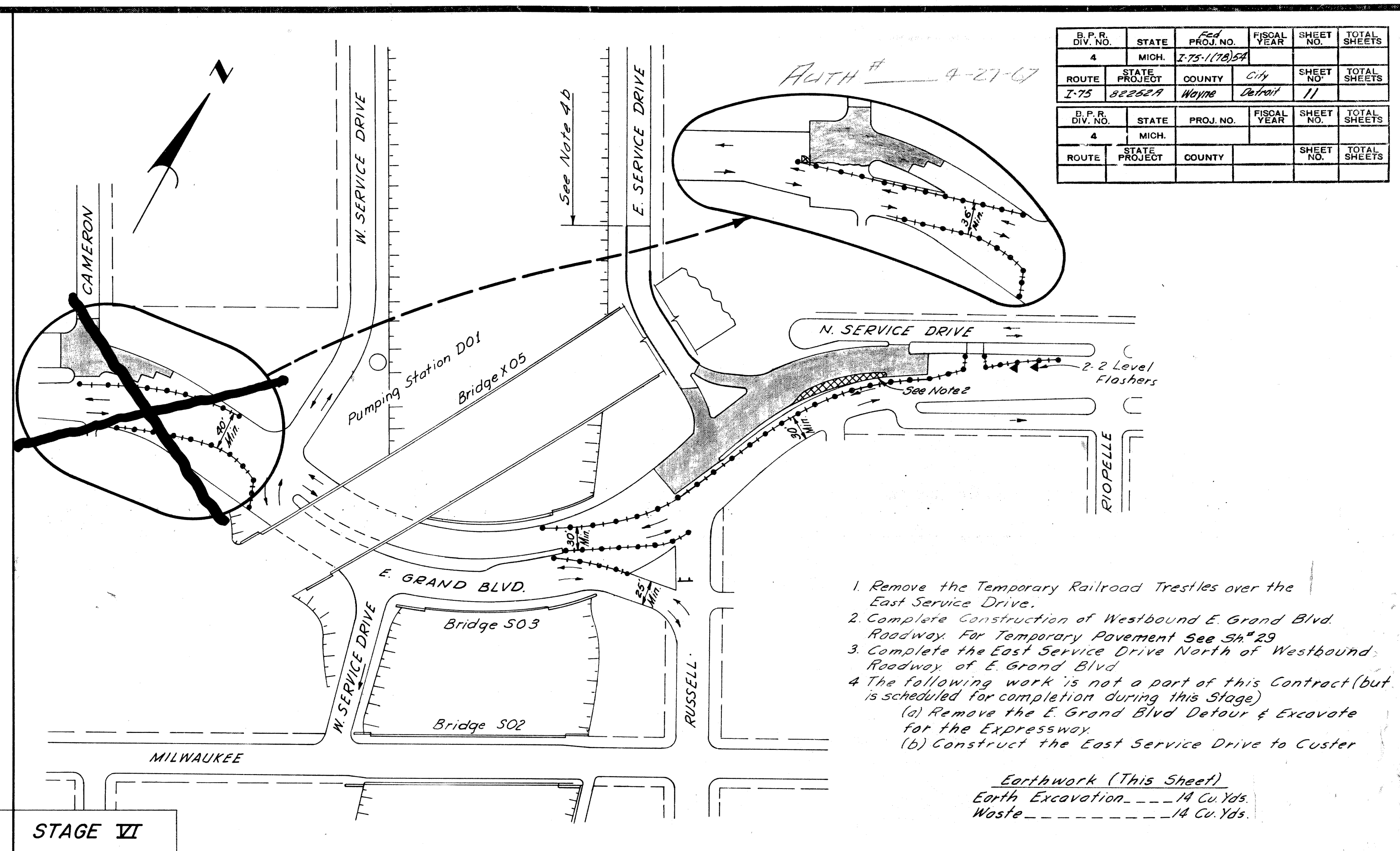
PLANS PREPARED BY
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 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

3/29/64	3/29/64	3/29/64	3/29/64
LOAD LEADER	DESIGNED BY	CHECKED	DATE
J. W. WICKLEY	J. W. WICKLEY	J. W. WICKLEY	4-24
F. CALTHORP			



1. Remove a Portion of the E. Grand Blvd. Detour.
2. Construct the West Service Drive between Sta 190100 & Sta 191+30
3. Provide Temporary Pavement between E. Grand Blvd. & North Service Drive

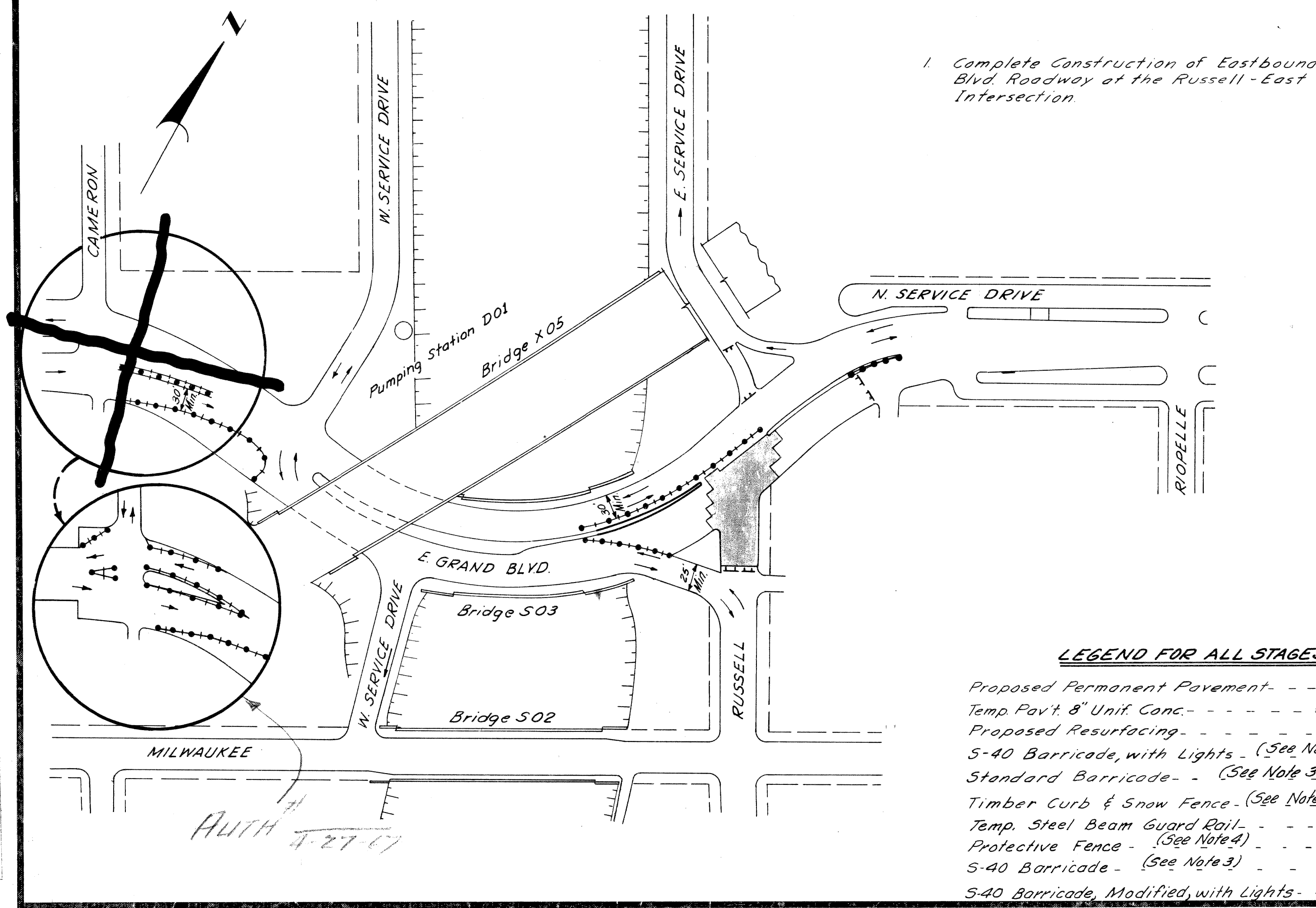
STAGE V
 STAGE VII



1. Remove the Temporary Railroad Trestles over the East Service Drive.
2. Complete Construction of Westbound E. Grand Blvd. Roadway For Temporary Pavement See SH # 29
3. Complete the East Service Drive North of Westbound Roadway of E. Grand Blvd.
4. The following work is not a part of this Contract (but is scheduled for completion during this Stage)
 - (a) Remove the E. Grand Blvd Detour & Excavate for the Expressway
 - (b) Construct the East Service Drive to Custer

Earthwork (This Sheet)
 Earth Excavation - 14 Cu Yds.
 Waste - 14 Cu Yds.

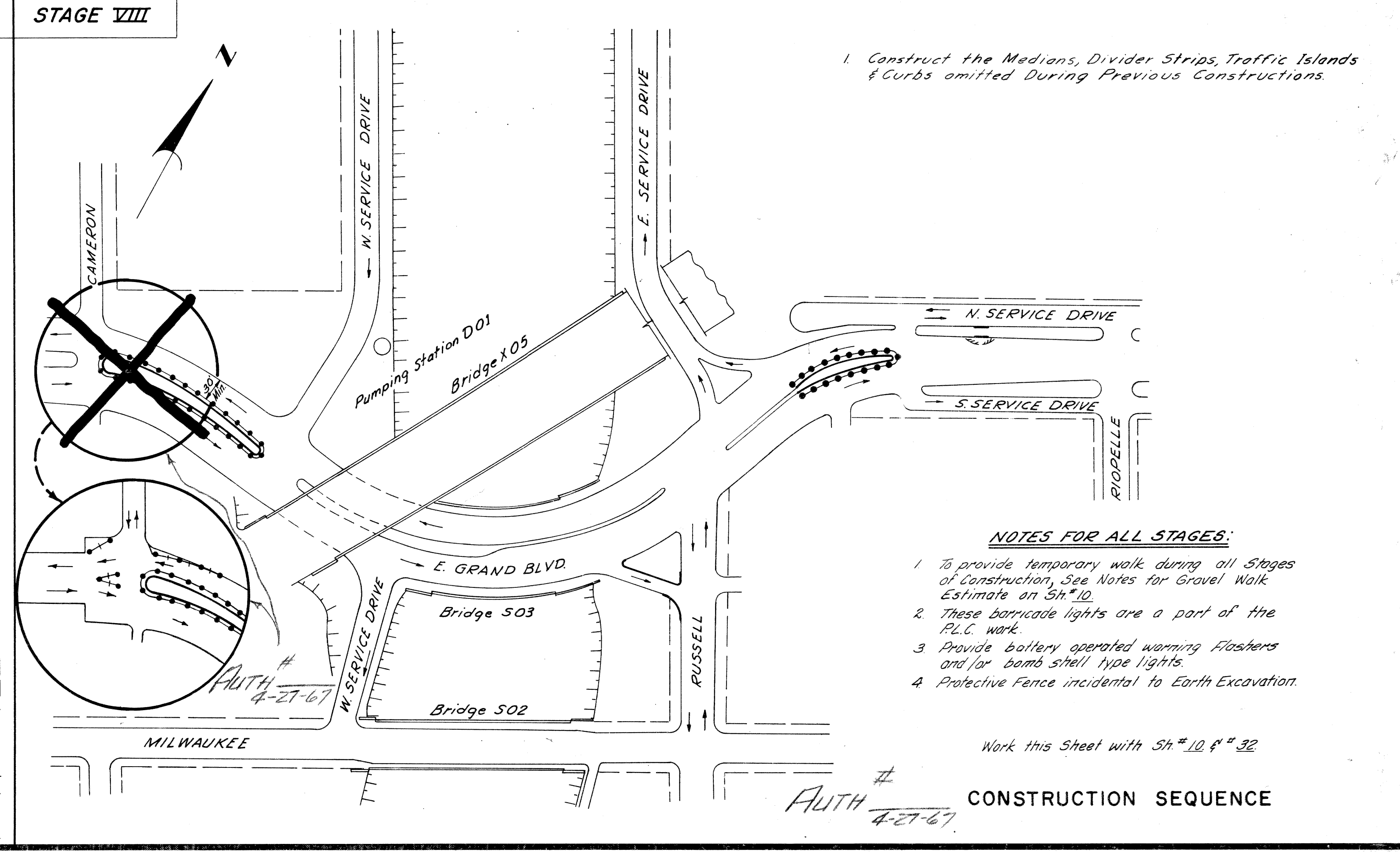
STAGE VII
 STAGE VIII



1. Complete Construction of Eastbound E. Grand Blvd. Roadway at the Russell-East Service Drive Intersection.

LEGEND FOR ALL STAGES

- Proposed Permanent Pavement - [Symbol]
- Temp Pav't 8" Unit Conc. - [Symbol]
- Proposed Resurfacing - [Symbol]
- S-40 Barricade, with Lights - (See Note 2) - [Symbol]
- Standard Barricade - (See Note 3) - [Symbol]
- Timber Curb & Snow Fence - (See Note 3) - [Symbol]
- Temp. Steel Beam Guard Rail - [Symbol]
- Protective Fence - (See Note 4) - [Symbol]
- S-40 Barricade - (See Note 3) - [Symbol]
- S-40 Barricade, Modified, with Lights - (See Note 2) - [Symbol]



1. Construct the Medians, Divider Strips, Traffic Islands & Curbs omitted During Previous Constructions.

NOTES FOR ALL STAGES:

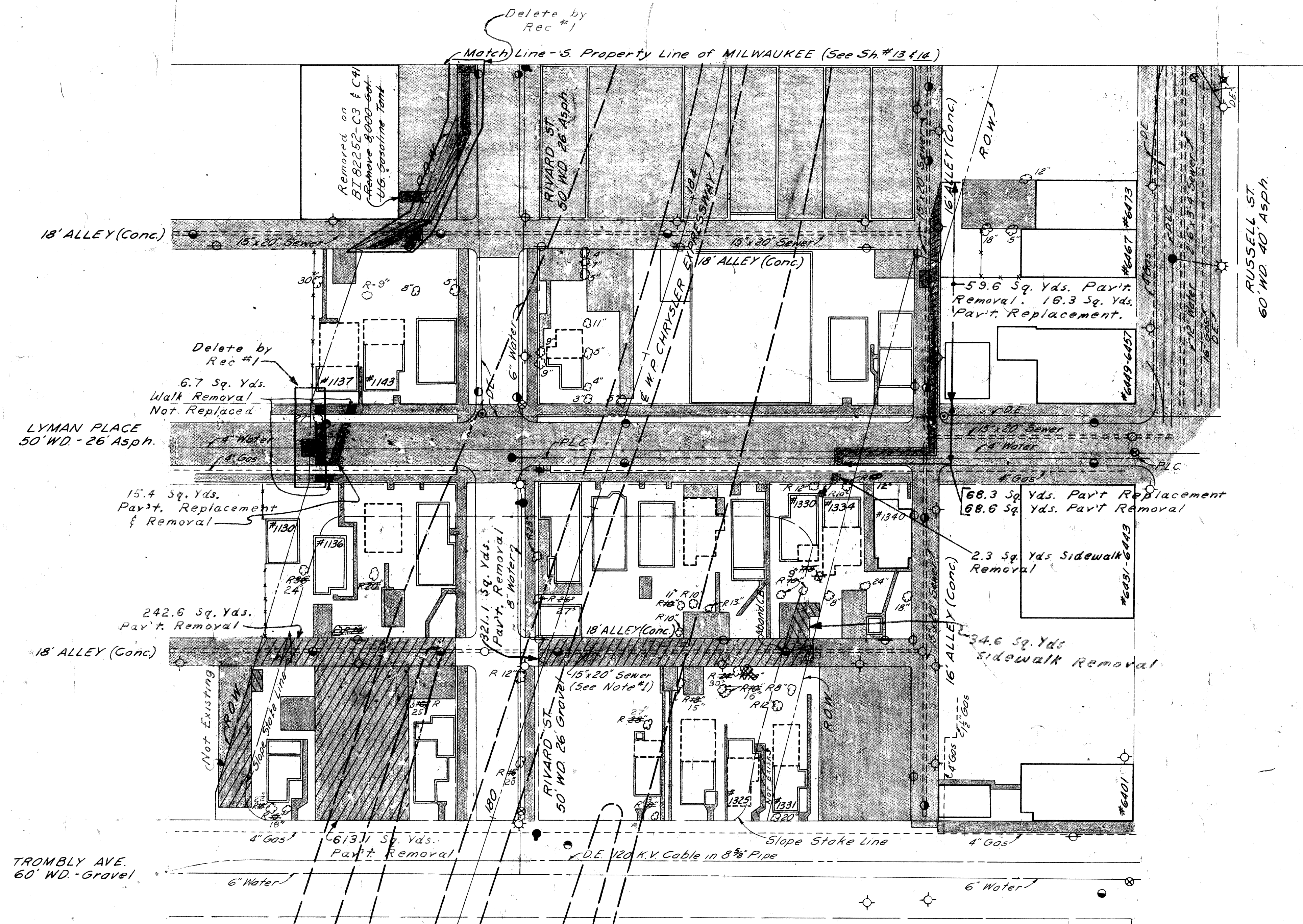
1. To provide temporary walk during all Stages of Construction, See Notes for Gravel Walk Estimate on Sh # 10.
2. These barricade lights are a part of the P.L.C. work.
3. Provide battery operated warning Flashers and/or bomb siren type lights.
4. Protective Fence incidental to Earth Excavation.

Work this Sheet with Sh # 10 & # 32

CONSTRUCTION SEQUENCE

FILE NO.	82252A C2	STATE PROJECT	FEDERAL PROJECT	SHEET NO.	TOTAL SHEETS
NO. USED		82252A	175-178/54	11	

S.P.R. DIV. NO.	STATE	Proj. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	I-75-178-54		12	12
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
I-75	82252A	Wayne	Detroit	12	12
S.P.R. DIV. NO.	STATE	Proj. No.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



QUANTITIES

	As Constructed
Auth. 1022 Removing Trees 8"-12"	13 Each 10 each
Auth. 1023 Removing Trees 13"-24"	1 Each 10 each
Auth. 1024 Removing Trees 25"-36"	1 Each 5 each
Abandoning Catch Basins	1 Each 1 each
Auth. 1003 Removing Sidewalk	88 Sq. Yds 43.6 sq. Yds
Auth. 1001 Removing Pavement	155.8 Sq. Yds 134.2 Sq. Yds
Replacing Sidewalk 4" Concrete	172 Sq. Ft.
Auth. 1002 Replacing Pavement	238 Sq. Yds 106.75 Sq. Yds
Replacing Curb (Detail 2A)	34 Lin. Ft. 15 LPH. FT.
Removing Masonry and Concrete	50 Cu. Yds 27.6 Cu. Yds
Removing Underground Storage Tanks	1 Each 0
EARTHWORK: For Basements & Abandoned Misc. Structures	
Excavation: Including Removal of Debris from Basements	74 Cu. Yds.
Waste:	74 Cu. Yds.
Backfill: Select Yellow Clay (C.I.P.)	128 Cu. Yds.*

LEGEND

Removing Sidewalk	[Pattern]
Removing Pavement	[Pattern]
Replacing Sidewalk (4" Concrete)	[Pattern]
Replacing Pavement	[Pattern]
Existing Foundation Wall	[Pattern]
Existing Basement	[Pattern]
Existing Concrete Slab	[Pattern]
Removing Trees	R (Size)
Future Pavement	[Pattern]

NOTE:

- The existing 15" x 20" Sewer located in the 18 foot Alley between Trombly & Lyman is to remain in service until the west interceptor sewer adjacent to the Chrysler R.O.W. is completed.
- For Typical Cross-Sections of Embankment and Backfill, See Sh # 4.

* To be obtained from Roadway Excavation Sh # 19.

Earth Excavation (Miscellaneous Debris Above Ground)
 Entire Project Estimated Quantity - 500 Cu. Yds. Earth Exc.
 500 Cu. Yds. Waste

**REMOVAL PLAN
TROMBLY TO MILWAUKEE**

FILE NO.	82252A C2	STATE PROJECT	FEDERAL PROJECT	SHEET NO.	TOTAL SHEETS
I-75	82252A	I-75-178-54		12	12

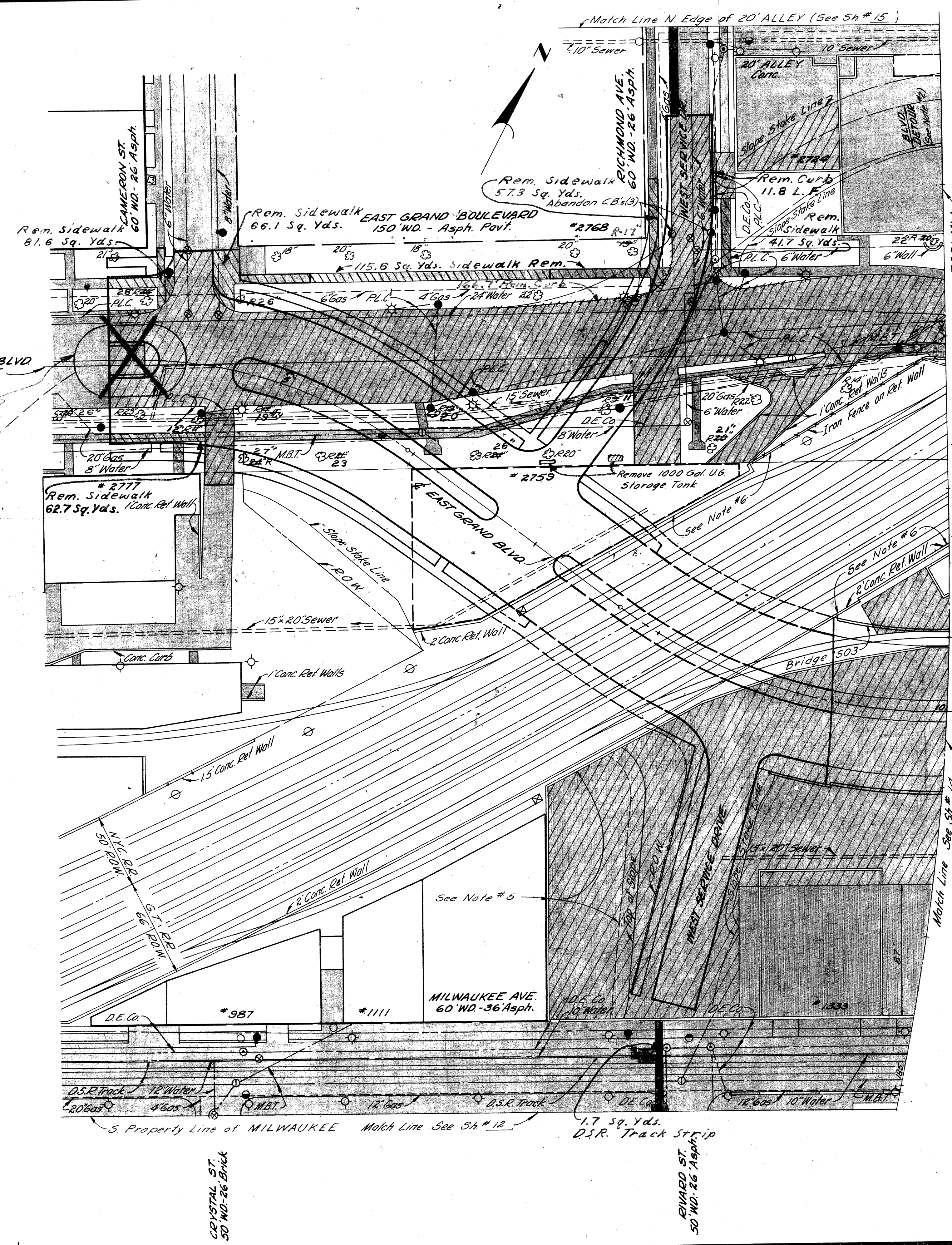
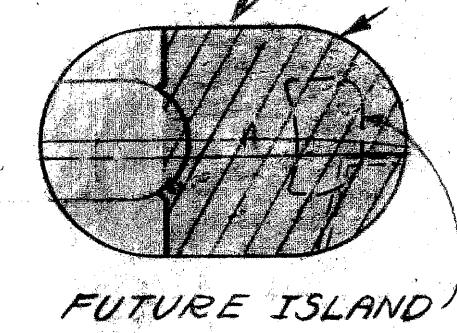
PLANS PREPARED BY
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 BUREAU OF HIGHWAYS AND EXPRESSWAYS

DESIGNED BY	E. PALUCH	DATE	3/9/64
CHECKED BY	R. COMLY	DATE	3/9/64
APPROVED BY	[Signature]	DATE	1/1/64
RECOMMENDED BY	[Signature]	DATE	4-1-64
FOR APPROVAL	[Signature]	DATE	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-75-170154		13	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
1-75	82252A	Wayne	Detroit	13	

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 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

J. W. WICKREY
 M. POEITZ
 R. COMLY
 A. R. WICKREY



As Constructed

Auth.	Quantity	Unit	Quantity	Unit
1023	Removing Trees 8"-12"	2 Each	2 each	
1024	Removing Trees 13"-24"	11 Each	9 each	
1024	Removing Trees 25"-36"	1 Each	5 each	
	Abandoning Catch Basins	3 Each	3 each	
2011	Removing Sidewalk	393 Sq. Yds.	425 Sq. Yds.	990.4
	Removing Pavement	10,660	10,754	990.4
	Replacing Sidewalk (Gravel)	See Note #1 Sh #10	140.4	Sq. Yds.
	Replacing Pavement	181	181	Sq. Yds.
	Removing Underground Storage Tanks	1 Each	1 each	
	Removing Curb	225 Lin. Ft.	178.5	Lin. Ft.
	Replacing Curb (Detail 2A)	37	37	Lin. Ft.
	Removing Masonry & Concrete	503	378.6	Cu. Yds.
	Removing D.S.R. Track Strip	9	1.7	Sq. Yds.

** Includes Removal of Temporary Pavement

EARTHWORK: For Basements and Abandoned Miscellaneous Structures

Excavation (Including Removal of Debris From Basements) 34 Cu. Yds.

Waste 34 Cu. Yds.

Backfill: Porous Material - Grade A (C.I.P.) 35 Cu. Yds. Select Yellow Clay (C.I.P.) 41 Cu. Yds.*

* To be obtained from Roadway Excavation Sh #19

LEGEND

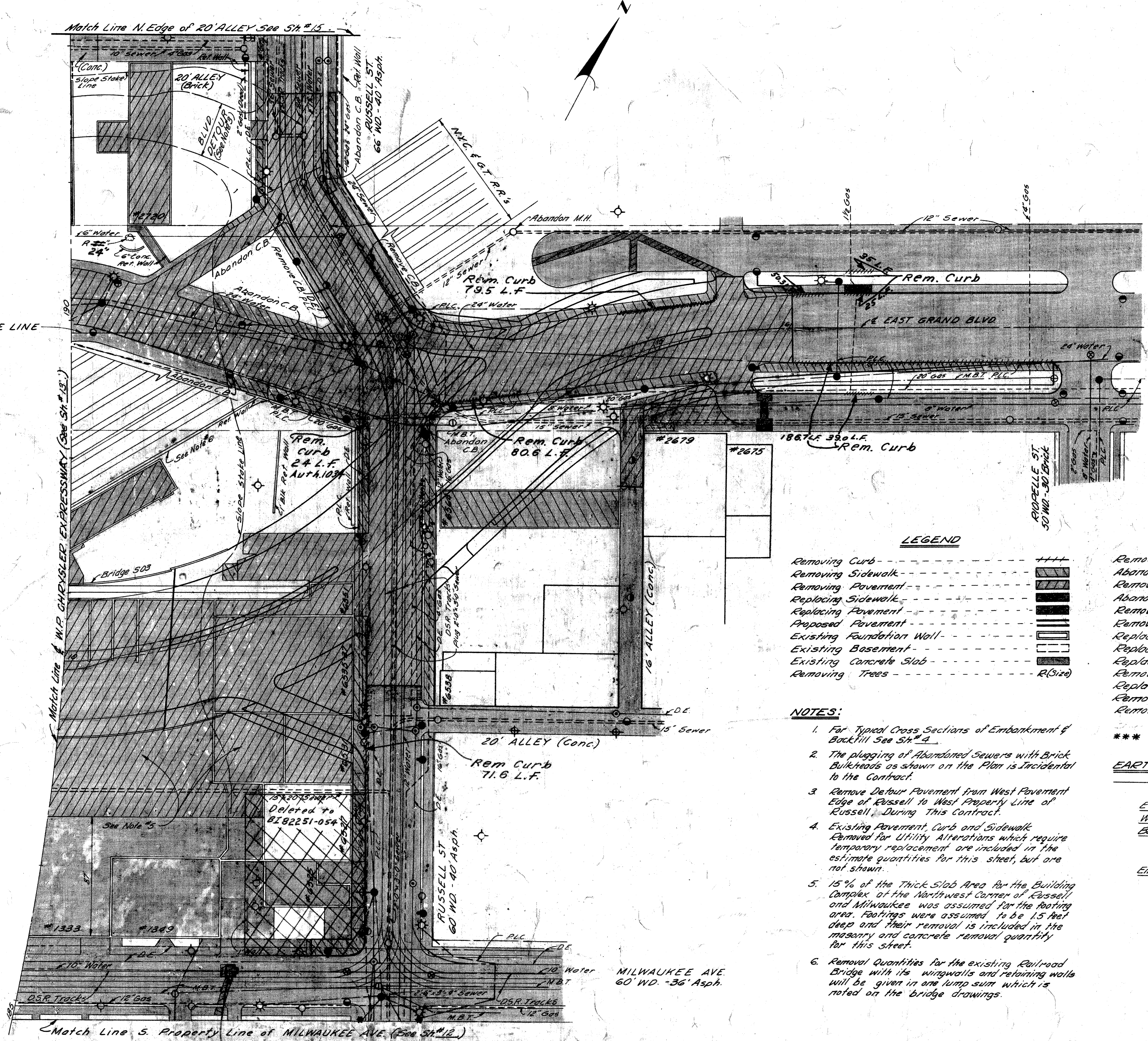
Removing Curb	+++++
Removing Sidewalk	
Removing Pavement	
Replacing Sidewalk	
Replacing Pavement	
Proposed Pavement	
Existing Foundation Wall	
Existing Basement	
Existing Concrete Slab	
Removing Trees	R (Size)

- NOTES:**
- For Typical Cross Sections of Embankment & Backfill, See Sh #4.
 - Remove Detour Pavement from 110' W of W.P.L. Richmond to the East Property Line of Richmond Avenue during this Contract.
 - Existing Pavement, Curb and Sidewalk, removed for Utility Alterations which require temporary replacement are included in the Estimate Quantities for this sheet, but are not shown.
 - 15% of the thick slab area for the building complex immediately North of Milwaukee Avenue was assumed for the footing area. Footings were assumed to be 15 feet thick and their removal is included in the Masonry and Concrete removal quantity for this sheet.
 - Consult The Michigan State Highway Department before removing concrete slab in this area.
 - Removal Quantities for the existing Railroad Bridge with its wingwalls and retaining walls will be given in one lump sum which is noted on the bridge drawings.

AUTH # 4-27-67

REMOVAL PLAN
 CAMERON TO CHRYSLER EXPRESSWAY

B. P. DIV. NO.	STATE	FED. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-75-17815			
ROUTE	COUNTY	CITY	SHEET	TOTAL SHEETS	
1-75	Wayne	Detroit	14		



E GRAND BLVD. BASE LINE

NORTH SERVICE DRIVE
28' Brick

EAST GRAND BLVD.
150' WD. 50' Asph.

SOUTH SERVICE DRIVE
22' Brick

LEGEND

Removing Curb	----	++++
Removing Sidewalk	----	
Removing Pavement	----	
Replacing Sidewalk	----	
Replacing Pavement	----	
Proposed Foundation	----	
Existing Foundation Wall	----	
Existing Basement	----	
Existing Concrete Slab	----	
Removing Trees	----	R(Size)

QUANTITIES As Constructed

Removing Trees 13" to 24" -	1 Each	1 Each
Abandoning Catch Basins -	5 Each	5 Each
Removing Catch Basins -	2 Each	2 Each
Abandoning Manholes -	1 Each	1 Each
Removing Sidewalk 15.98.5	Sq. Yds. 1971	Sq. Yds.
Removing Pavement ***	9447.7	Sq. Yds. 10,345
Replacing Sidewalk (4" Concrete)	188.3	Sq. Ft. 190
Replacing Pavement	See Note #1	Sh. #10
Replacing Sidewalk (Gravel)	218.9	Sq. Yds. 353
Removing Curb	591.7	Lin. Ft. 656
Replacing Curb (Detail 2A)	149.3	Lin. Ft. 176
Removing Masonry & Concrete	475.9	Cu. Yds. 637
Removing D.S.R. Track Strip	332.3	Sq. Yds. 950

- NOTES:**
- For Typical Cross Sections of Embankment & Backfill See Sh. #4.
 - The plugging of Abandoned Sewers with Brick Bulkheads as shown on the Plan is incidental to the Contract.
 - Remove Detour Pavement from West Pavement Edge of Russell to West Property Line of Russell During This Contract.
 - Existing Pavement, Curb and Sidewalk Removed for Utility Alterations which require temporary replacement are included in the estimate quantities for this sheet, but are not shown.
 - 15% of the Thick Slab Area for the Building Outside of the Northwest Corner of Russell and Milwaukee was assumed for the Roofing area. Footings were assumed to be 15' deep and their removal is included in the masonry and concrete removal quantity for this sheet.
 - Removal Quantities for the existing Railroad Bridge with its wingwalls and retaining walls will be given in one lump sum which is noted on the bridge drawings.

EARTHWORK: For Basements & Abandoned Miscellaneous Structures.

Excavation	-----	25 Cu. Yds.
Waste	-----	25 Cu. Yds.
Backfill:		
Porous Material - Grade A (C.I.P.)	215	Cu. Yds.
Select Yellow Clay (C.I.P.)	42	Cu. Yds. **
Embankment: (53 + 25%)	-----	66 Cu. Yds. *

* To be obtained from Roadway Excavation Sh. # 21.

** To be obtained from Roadway Excavation Sh. # 19.

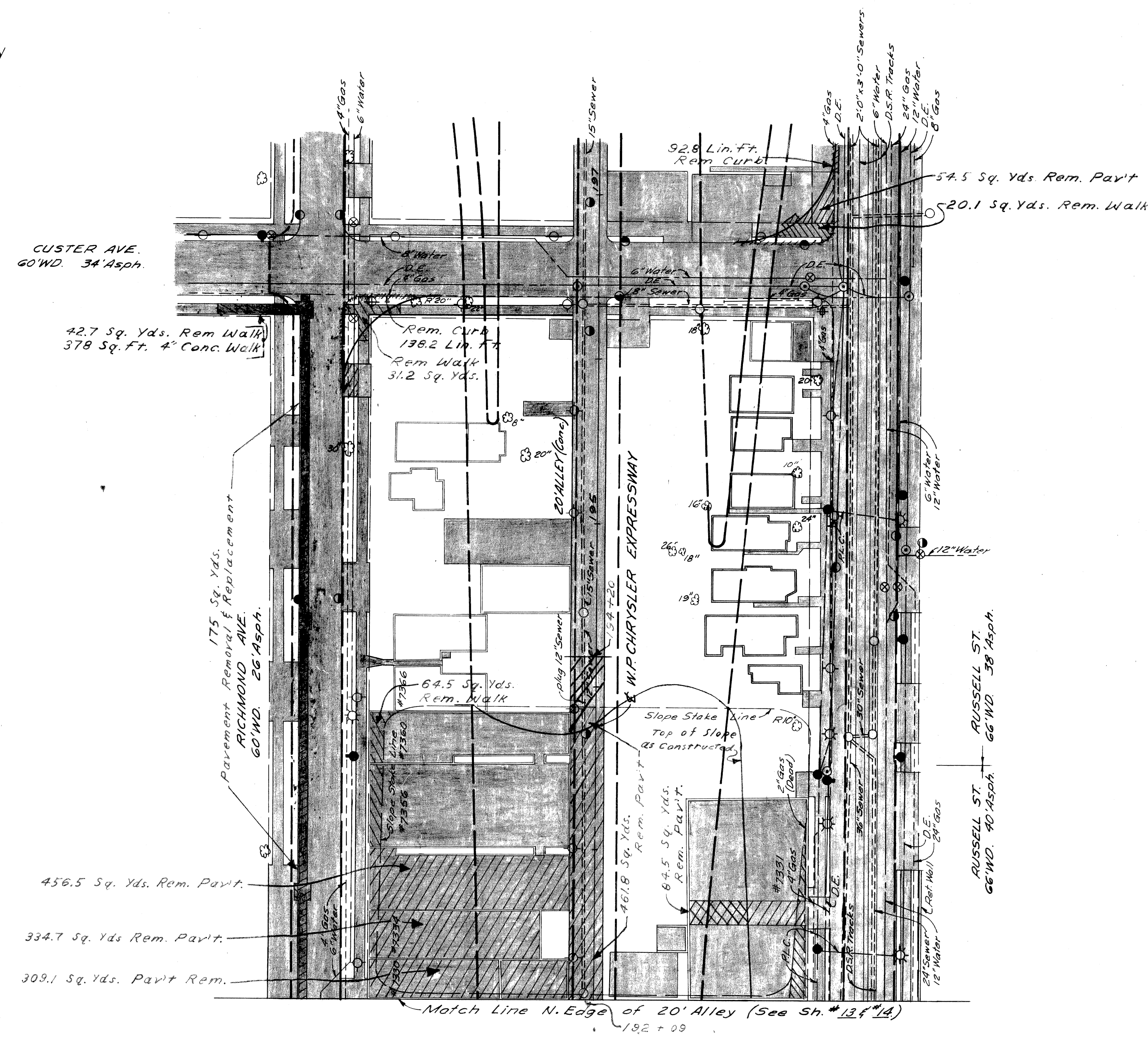
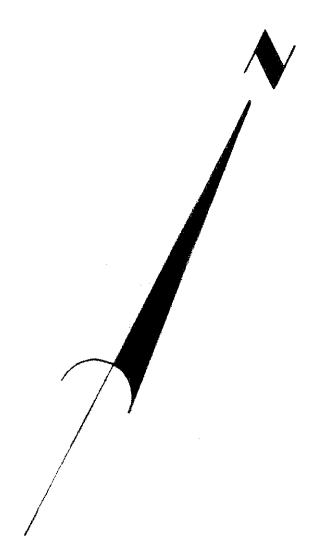
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CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

DESIGNED BY
DRAWN BY
CHECKED BY
CORRECT
RECOMMENDED

**REMOVAL PLAN
CHRYSLER EXPRESSWAY TO RIOPELLE**

B.P.R. DIV. NO.	STATE	Fed. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	I-75(178)54		15	
ROUTE	STATE	PROJECT	COUNTY	CITY	SHEET NO.
I-75	82252A	Wayne	Detroit		15

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



QUANTITIES

	As Constructed
Removing Trees 8"-12"	1 Each
Removing Trees 13"-24"	1 Each
Removing Sidewalk	159 Sq. Yds.
Removing Pavement	1876.1 Sq. Yds.
Replacing Sidewalk (4" Concrete)	378 Sq. Yds.
Replacing Pavement	175 Sq. Yds.
Removing Curb	231 Lin. Ft.
Replacing Curb (Detail 2A)	0 Lin. Ft.
Removing Masonry & Concrete	10.9 Cu. Yds.

EARTHWORK: For Basements and Abandoned Miscellaneous Structures

Backfill:
Select Yellow Clay (C.I.P.)* ----- 15 Cu. Yds.

* To be obtained from Roadway Excavation Sh. #19

LEGEND

Removing Curb	-----
Removing Sidewalk	-----
Removing Pavement	-----
Replacing Sidewalk (4" Concrete)	-----
Replacing Pavement	-----
Proposed Pavement	-----
Existing Foundation Wall	-----
Existing Basement	-----
Existing Concrete Slab	-----
Removing Trees	A-(5/12)

- NOTES:**
- For Typical Cross-Sections of Embankment and Backfill, See Sh. #4.
 - The plugging of Abandoned Sewers with Brick Bulkheads as shown on the plan is incidental to the Contract.

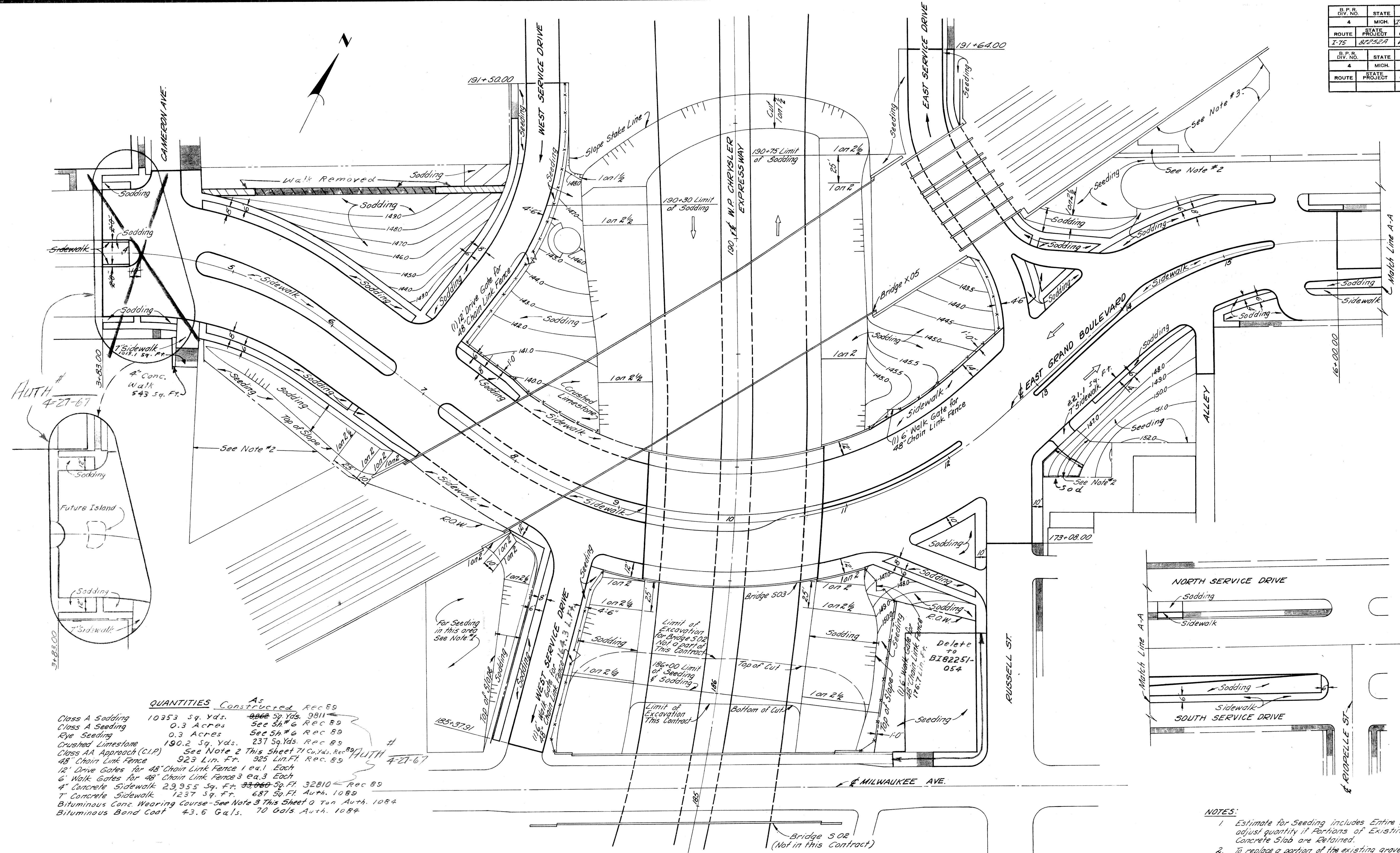
PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEER'S OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

FILE NO. 82252A
DATE 11/64
BY R. COMLY
CHECKED BY
CONTRACT NO.
RECOMMENDED FOR APPROVAL
DATE 4-2-64

REMOVAL PLAN
ALLEY N. OF E. GRAND BLVD.
TO CUSTER

B.P.R. DIV. NO.	STATE	FED. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	7-75-1(20)54		16	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
1-75	82252A	Wayne	Detroit	16	
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

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



3/26/64	J.V. WICKET	DESIGNED BY
3/26/64	M. POLITO	CHECKED BY
3/26/64	S. PLATER	CONSULT
4/1/64	W. J. ...	IN CHARGE
4/1/64	R. T. ...	FOR APPROVAL

QUANTITIES As Constructed Rec 89

Class A Sodding	10353 Sq. Yds.	9866 59 Yds. 9811
Class A Seeding	0.3 Acres	See 5h # 6 Rec 89
Rye Seeding	0.3 Acres	See 5h # 6 Rec 89
Crushed Limestone	190.2 Sq. Yds.	237 Sq. Yds. Rec 89
Class AA Approach (C.I.P.)	See Note 2 This Sheet 71 Cu. Yds. Rec 89	
48" Chain Link Fence	923 Lin. Ft.	925 Lin. Ft. Rec. 89
12' Drive Gates for 48" Chain Link Fence	1 ea. 1 Each	
6' Walk Gates for 48" Chain Link Fence	3 ea. 3 Each	
4" Concrete Sidewalk	29,955 Sq. Ft.	33,060 32,810 Rec 89
7" Concrete Sidewalk	1237 Sq. Ft.	687 Sq. Ft. Auth. 1089
Bituminous Conc. Wearing Course	See Note 3 This Sheet 0 Ton Auth. 1084	
Bituminous Bond Coat	43.6 Gals.	70 Gals. Auth. 1084

PLAN
 Scale: 1" = 40'

NOTES:

1. Estimate for Seeding includes Entire Area. adjust quantity if Portions of Existing Concrete Slab are Retained.
2. To replace a portion of the existing gravel covered area 71 Cu. Yds. CIP Class AA Approach Material has been Estimated. regrading of the remaining existing material is incidental to Class AA Approach.
3. 26 Tons of Bituminous Conc. Wearing Course to replace existing bituminous surface to restore parking area.

Auth # 4-27-67

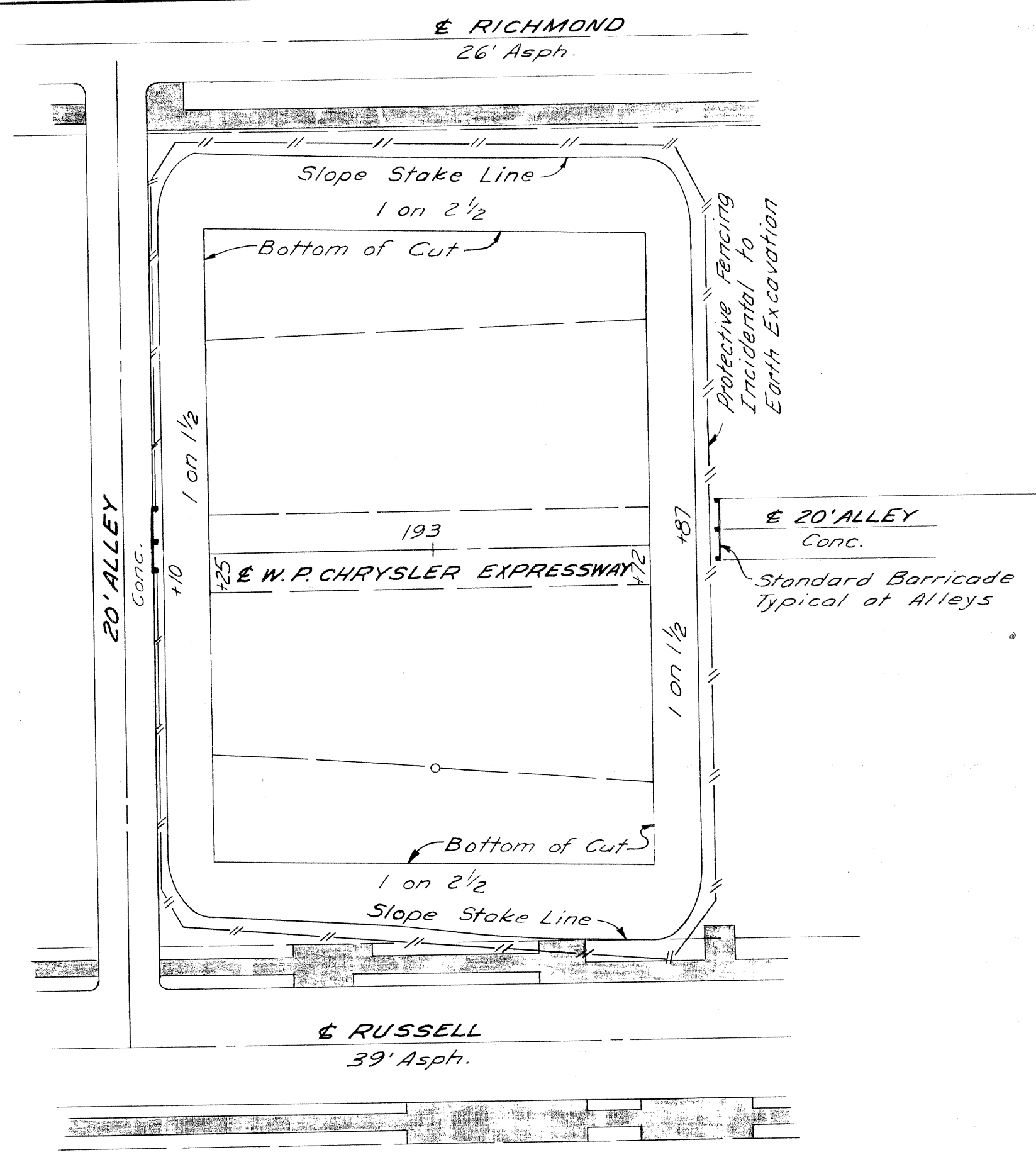
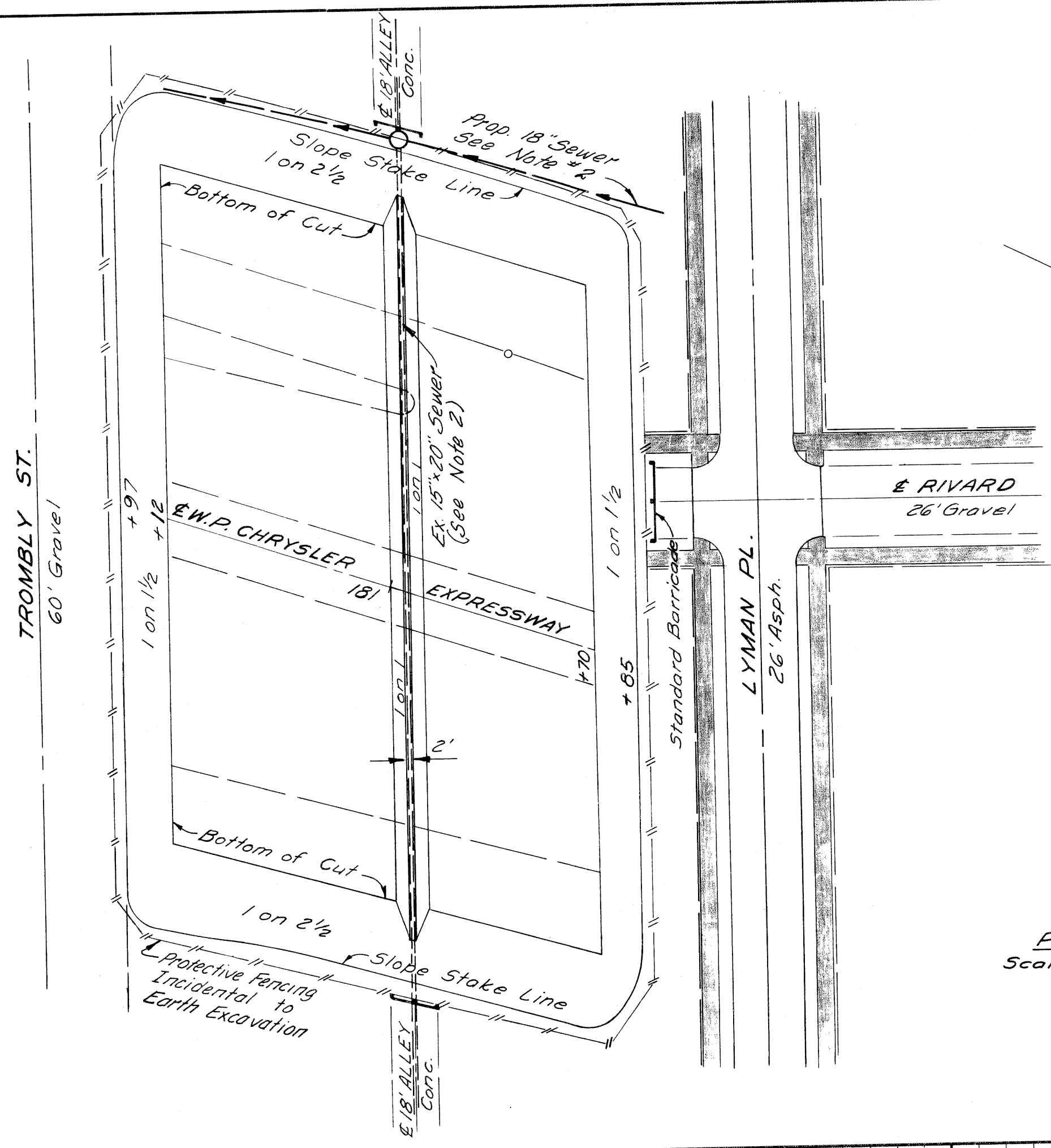
OPERATION	BY	DATE
PRELIMINARY P.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRACED		
QUANTITIES CHECKED		
EXPLANATIONS CHECKED		
QUANTITIES CHECKED		
SQUAD		

PLANS PREPARED BY
CITY OF DETROIT
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CITY ENGINEER'S OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

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

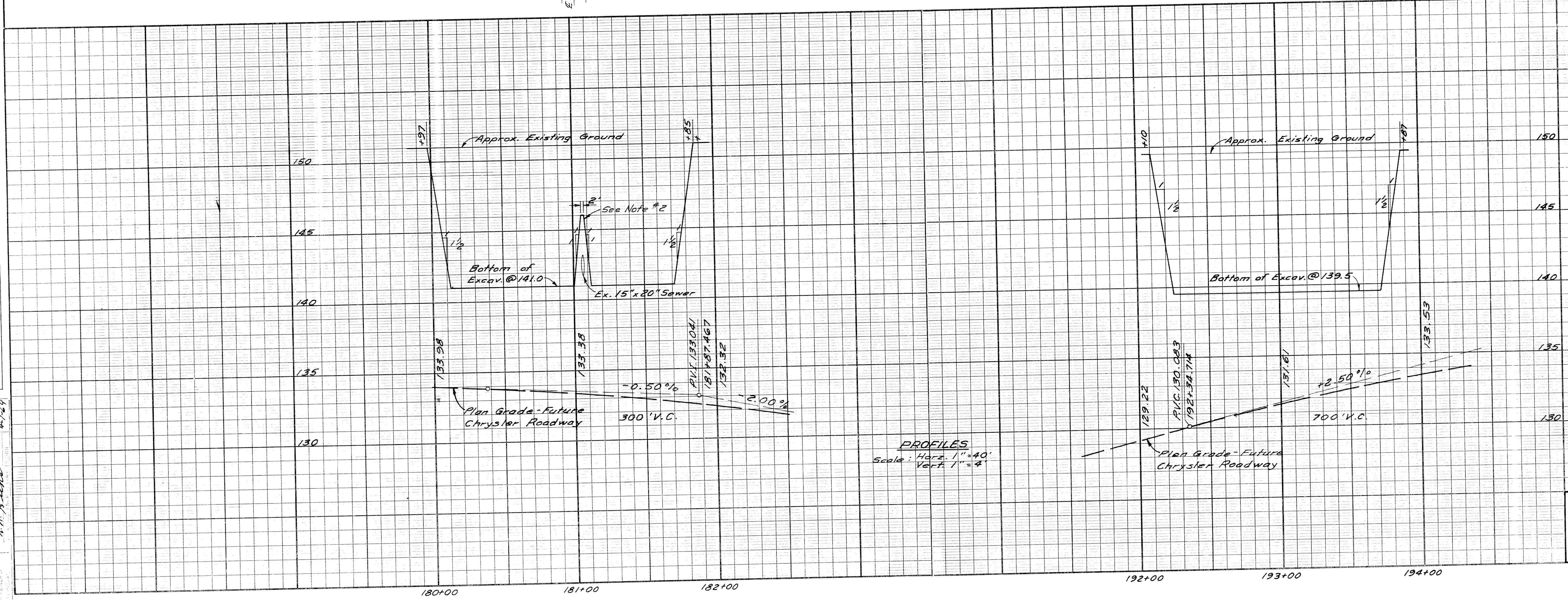
3/26/64 J.V. WICKREY
3/26/64 J. KNOX
3/26/64 P. BLATER
4/1/64 Allen E. Ferguson
4/2/64 A.A. Kuchel

REVISION	FINAL R.O.W.
AUTH.	DATE



B.P. DIV. NO.	STATE	Proj. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-75-1(78)54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
1-75	82252A	Wayne	Detroit	17	

- Notes:
- For Alignment See Sh. # 7 & Sh. # 8.
 - The existing 15" x 20" Sewer located in the 18' Alley between Trombly and Lyman is to remain in service until the West interceptor sewer adjacent to the Chrysler R.O.W. is completed.
 - Existing Sidewalks

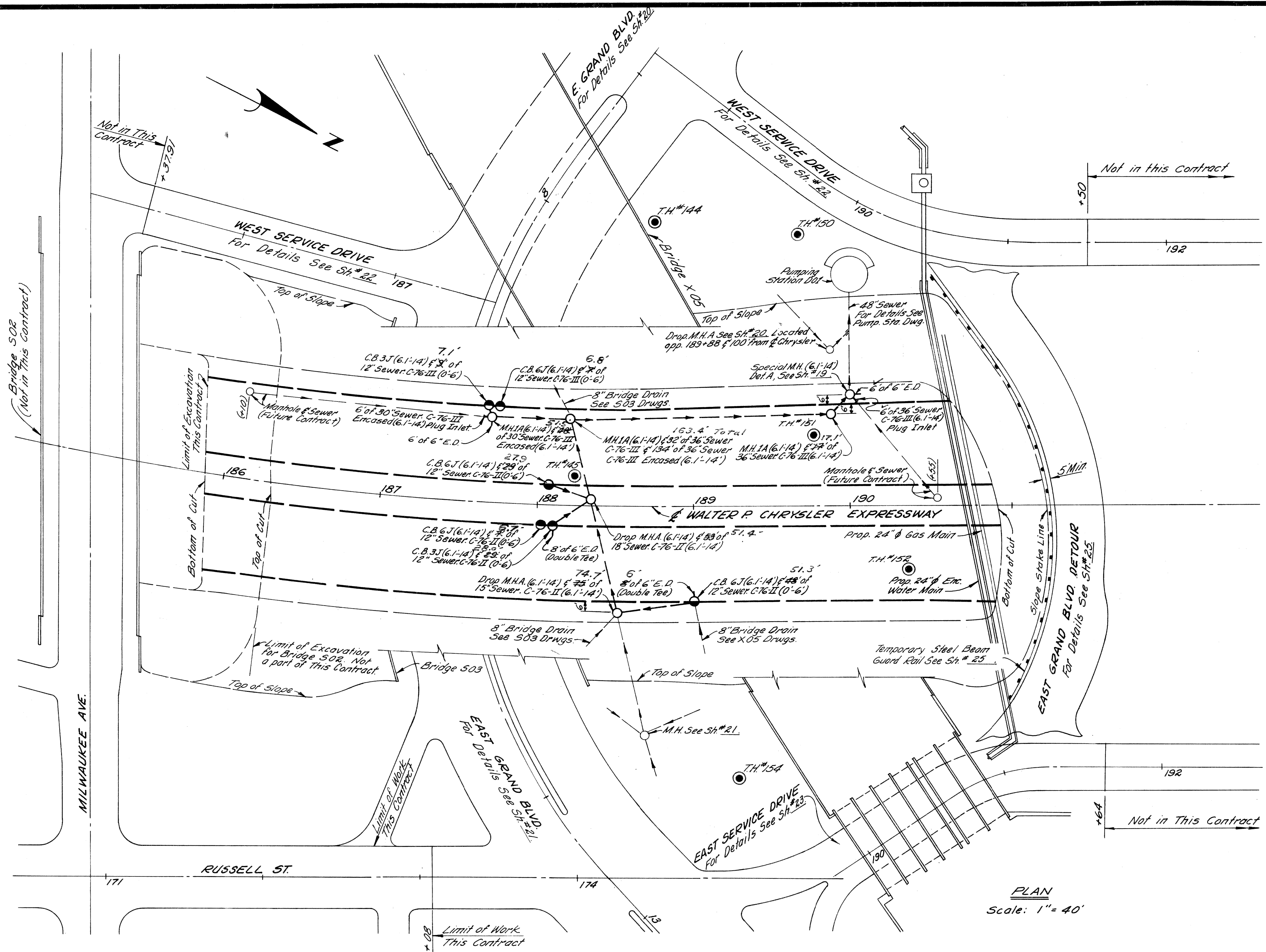


Earth Excavation.....31,237 Cu Yds
Loss to Temporary
Railroad Embankment 31,237 Cu Yds.
Waste 0 Cu Yds.

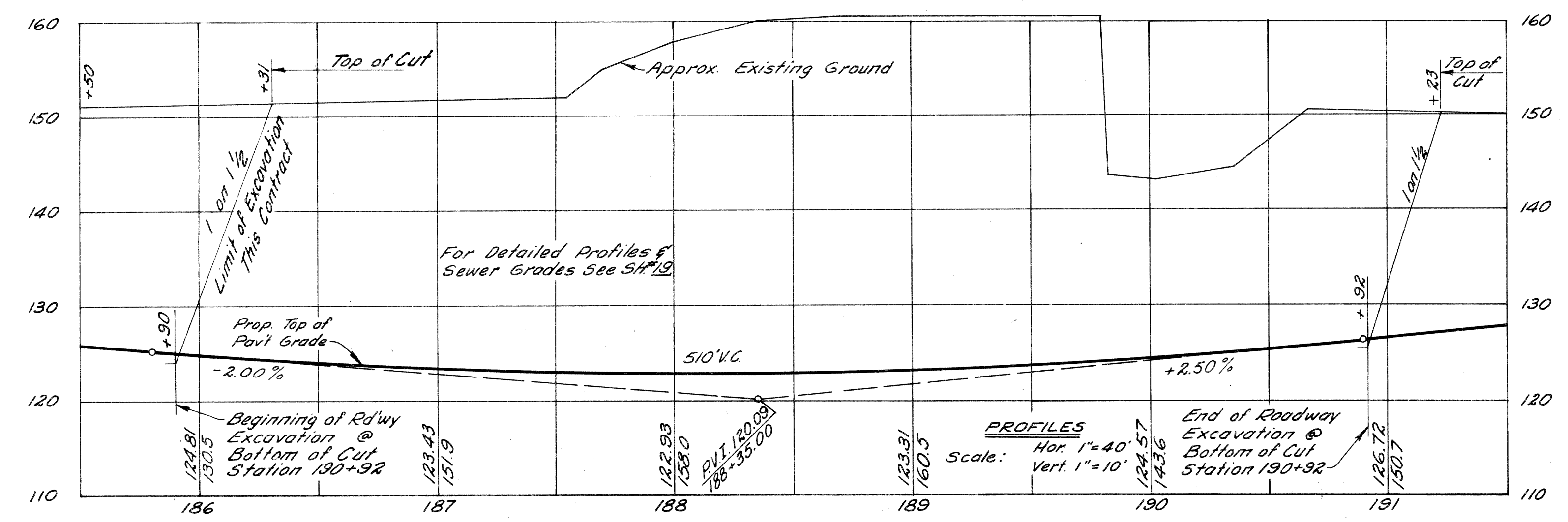
EXPRESSWAY EXCAVATION FOR
TEMPORARY RAILROAD EMBANKMENT

FILE NO.	82252A C2	STATE PROJECT	82252A	FEDERAL PROJECT	1-75-1(78)54	SHEET NO.	17
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R.P.R. DIV. NO.	STATE	Fed. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	7-75-17815A			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
7-75	82252A	Wayne	Detroit	18	
R.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" = 40'



PROFILES
Hor. 1" = 40'
Vert. 1" = 10'

NOTES:

- For Alignment See Sh #9 & #9
- For Grading including Sidewalk, Fence, Seeding & Sodding See Sh #16
- For Log of Soil Borings (Symbol ●) See Bridge 503 & X25
- For Construction Sequence See Sh #10 & #11

Earthwork for Roadway Drainage (Total for Contract)

Earth Excavation	2684 Cu.Yds.
Waste	2684 Cu.Yds.
Porous Material Grade "A" (C.I.P.)	1639 Cu.Yds.
Porous Material Grade "B" (C.I.P.)	2 Cu.Yds.

WALTER P. CHRYSLER
EXPRESSWAY ITEMS
STA. 185 + 90 TO STA. 191 + 23

PLANS PREPARED BY
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CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

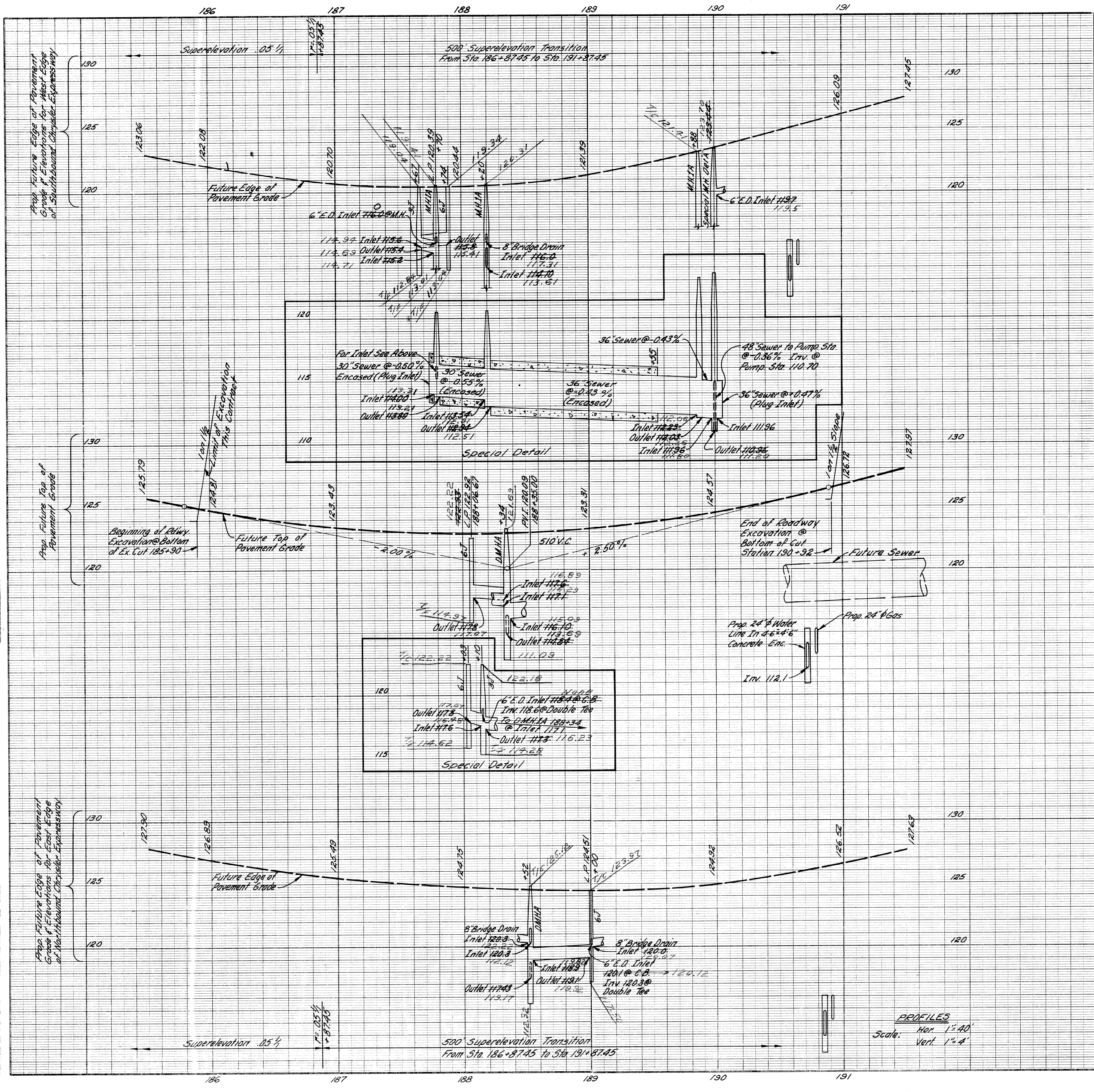
J.V. WICKLEY 3/9/64
M. POLLITO 3/9/64
J.V. WICKLEY 3/9/64
J. E. PUGH 4/1/64
A. R. HANCOCK 4/1/64

DATE	
BY	
CHECKED	
DESIGNED	
APPROVED	
PROJECT	
LOCATION	
SCALE	
DATE	
BY	
CHECKED	
DESIGNED	
APPROVED	
PROJECT	
LOCATION	
SCALE	

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

DATE	
BY	
CHECKED	
DESIGNED	
APPROVED	
PROJECT	
LOCATION	
SCALE	
DATE	
BY	
CHECKED	
DESIGNED	
APPROVED	
PROJECT	
LOCATION	
SCALE	

DATE	3/9/64
BY	J. V. ANDREY
CHECKED	M. PALITO
DESIGNED	H. WILSON
APPROVED	W. S. WILSON
PROJECT	Walter P. Chrysler Expressway
LOCATION	Sta. 185+90 to 191+23
SCALE	1" = 40'



Earth Excavation - - - - - 109,251 Cu. Yds.

Losses:

Embankment + 25% - - - - - 261

Select Yellow Clay Backfill (CIP): - - - - - 1,458

Removal 54" 12 - - - - - 128

Removal 54" 13 - - - - - 41

Removal 54" 14 - - - - - 42

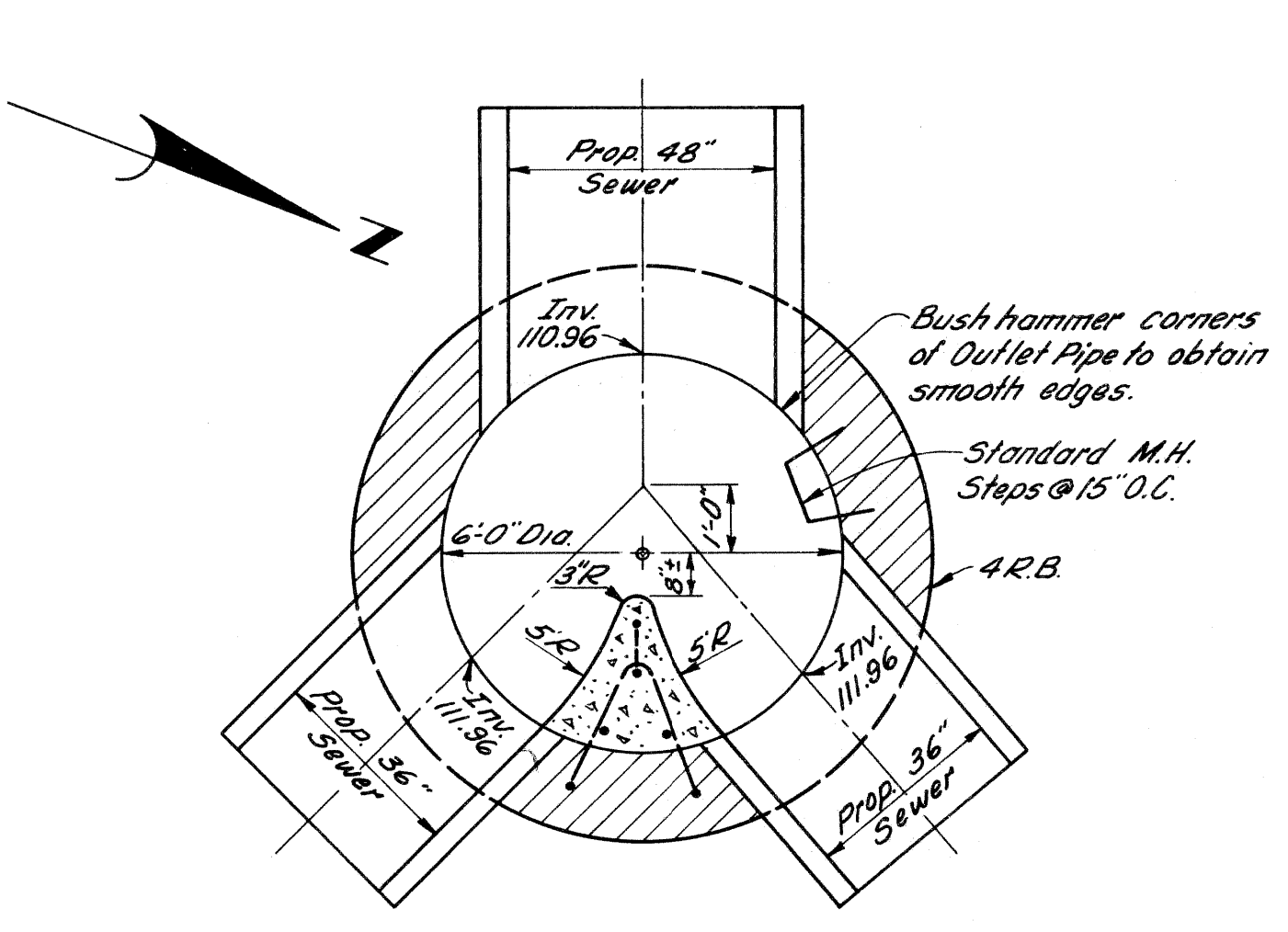
Removal 54" 15 - - - - - 15

Alterations to City Sewers - - - - - 199

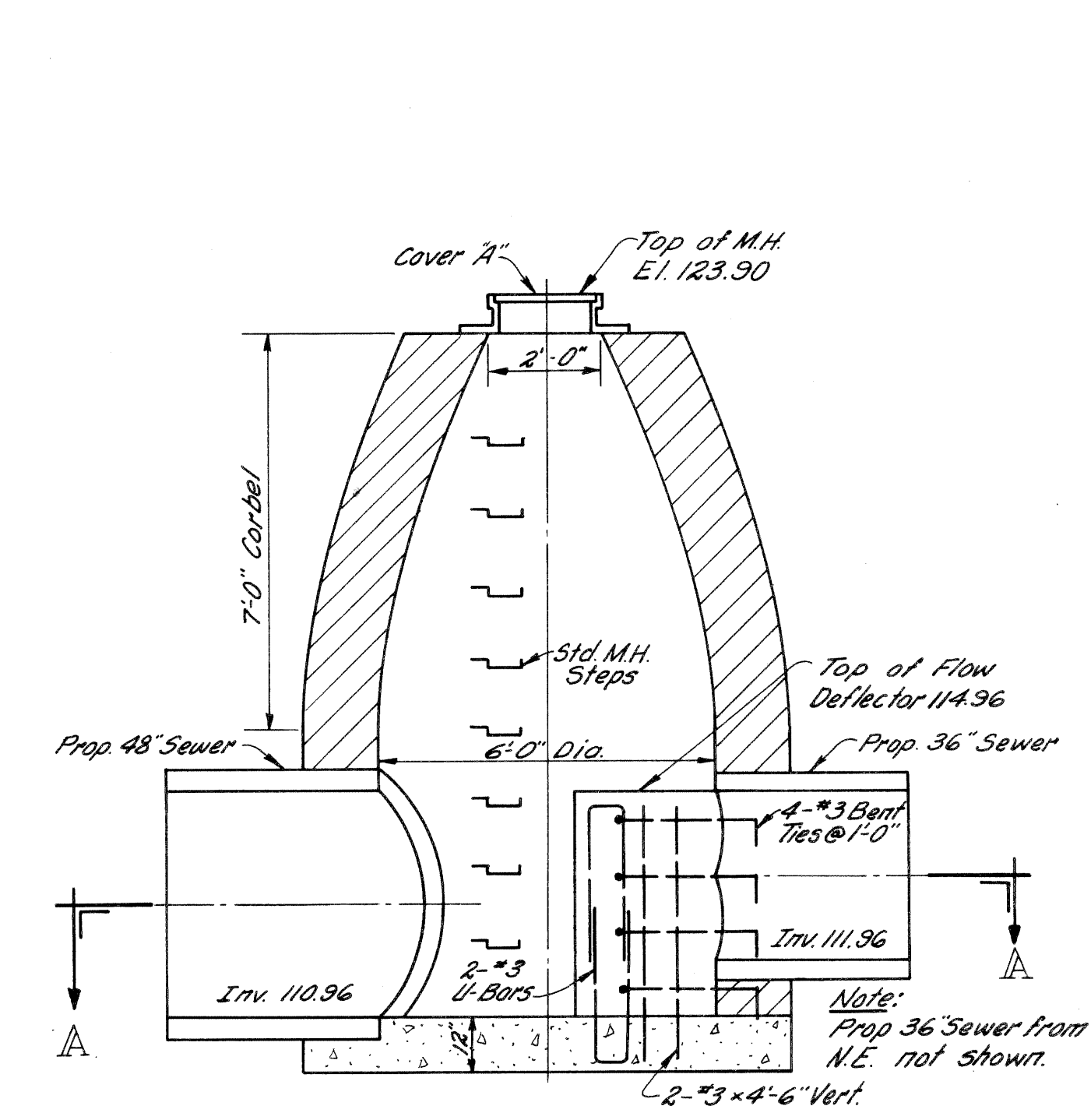
Total Losses - - - - - 2,144

Waste - - - - - 107,107 Cu. Yds.

B. P. R. DIV. NO.	4	STATE	MICH.	Fed. PROJ. NO.	7-75-178-54	FISCAL YEAR		SHEET NO.	19	TOTAL SHEETS	
ROUTE	I-75	STATE PROJECT	82252A	COUNTY	Wayne	CITY	Detroit	SHEET NO.		TOTAL SHEETS	



SECTION A-A
Scale: 3/8" = 1'-0"



SPECIAL M.H. - DETAIL A
Scale: 3/8" = 1'-0"

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

WALTER P. CHRYSLER EXPRESSWAY PROFILES
STA. 185+90 TO STA. 191+23

FILE NO.	82252A C2	STATE PROJECT	82252A	FEDERAL PROJECT	7-75-178-54	SHEET NO.	19
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Remove Asphalt Surface shown cross-hatched to provide for a smooth connection and to adjust crown. Replace with Bituminous Concrete Pavement.

Station	Remove Ex. Asphalt Surface Sq. Yds.	Replace with Bit. Conc. Pavement Sq. Yds.
4+40	29	29
Totals	29	29

2 Tons Bit. Conc. Wearing Course
2 Tons Bit. Conc. Leveling Course

C.B.M. #161 Elev. 152.819 Arrow on Hydrant
S.E. corner of Hastings St and E. Grand Blvd
C.B.M. #162 Elev. 152.694 Arrow on Hydrant
N.W. corner of Melrose Ave. and E. Grand Blvd

C.B.M. #187 Elev. 152.270 Arrow on Hydrant
East Side of Cameron Ave. 260' North of
E. Grand Blvd.

C.B.M. #163 Elev. 151.938 Arrow on Hydrant
N.E. corner of Richmond Ave. and E. Grand Blvd

C.B.M. #156 Elev. 154.023 Arrow on Hydrant
N.W. corner of Rivard St. and Milwaukee Ave

S.P.R. DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	2-75-17815A		20	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
2-75	82252A	Wayne	Detroit	20	

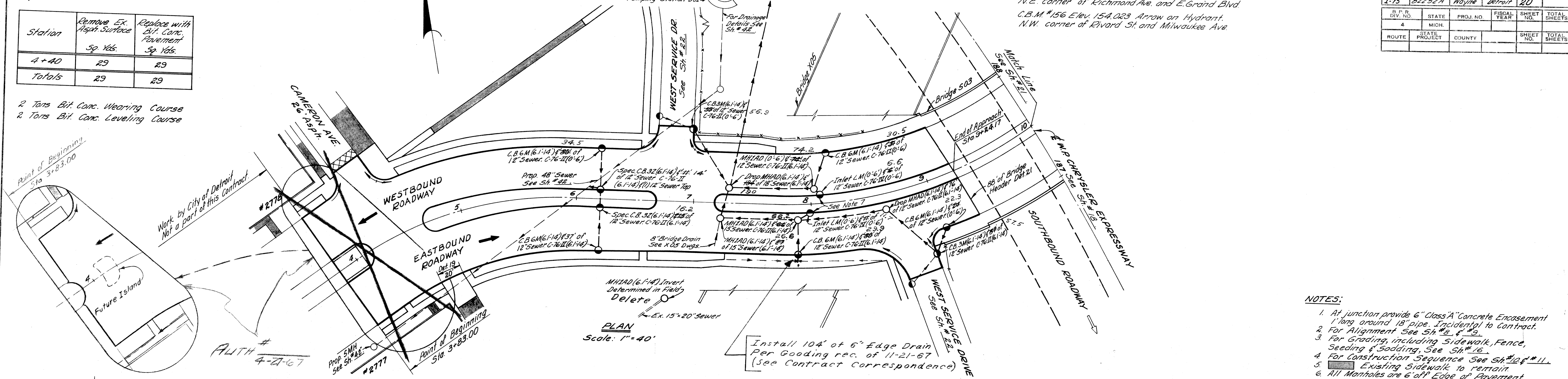
OPERATION	DATE	BY
PRELIMINARY P.L.C. CHECKED		
FINAL DESIGN CHECKED		
FINAL R.O.W. CHECK		
QUANTITIES CHECKED		
SQUAD		

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

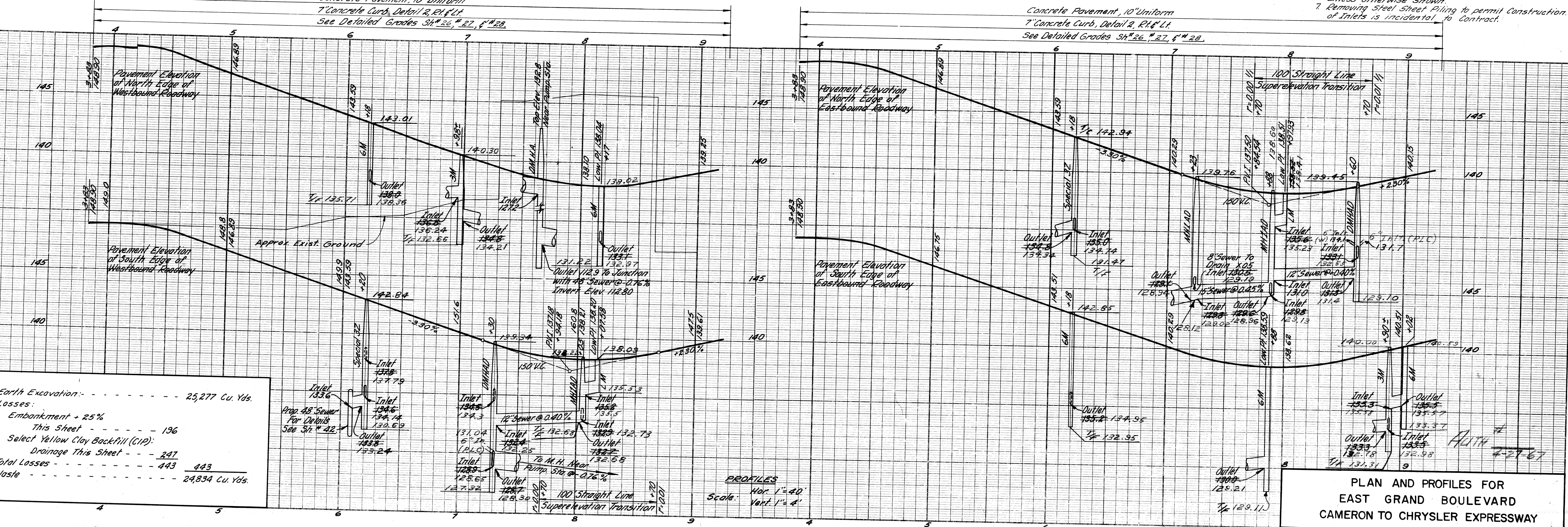
OPERATION	DATE	BY
SURVEYED		
PLAN PLOTTED		
PROFILE PLOTTED		
PROFILES CHECKED		
PRELIMINARY GRADE		
FEDERAL INSPECTION		

3/9/64
3/9/64
3/9/64
3/11/64
4-1-64

J. J. WICKREY
M. P. WILCOX
J. J. WICKREY
A. A. HICKS



- NOTES:
- At junction provide 6" Class 'A' Concrete Encasement 1' long around 18" pipe. Incidental to Contract.
 - For Alignment See Sh # 2, 4, 23.
 - For Grading, including Sidewalk, Fence, Seeding & Gooding, See Sh # 16.
 - For Construction Sequence See Sh # 12 & 11.
 - Existing Sidewalk to remain.
 - All Manholes are 6' off Edge of Pavement unless otherwise shown.
 - Removing Street steel Piling to permit Construction of Inlets is incidental to Contract.



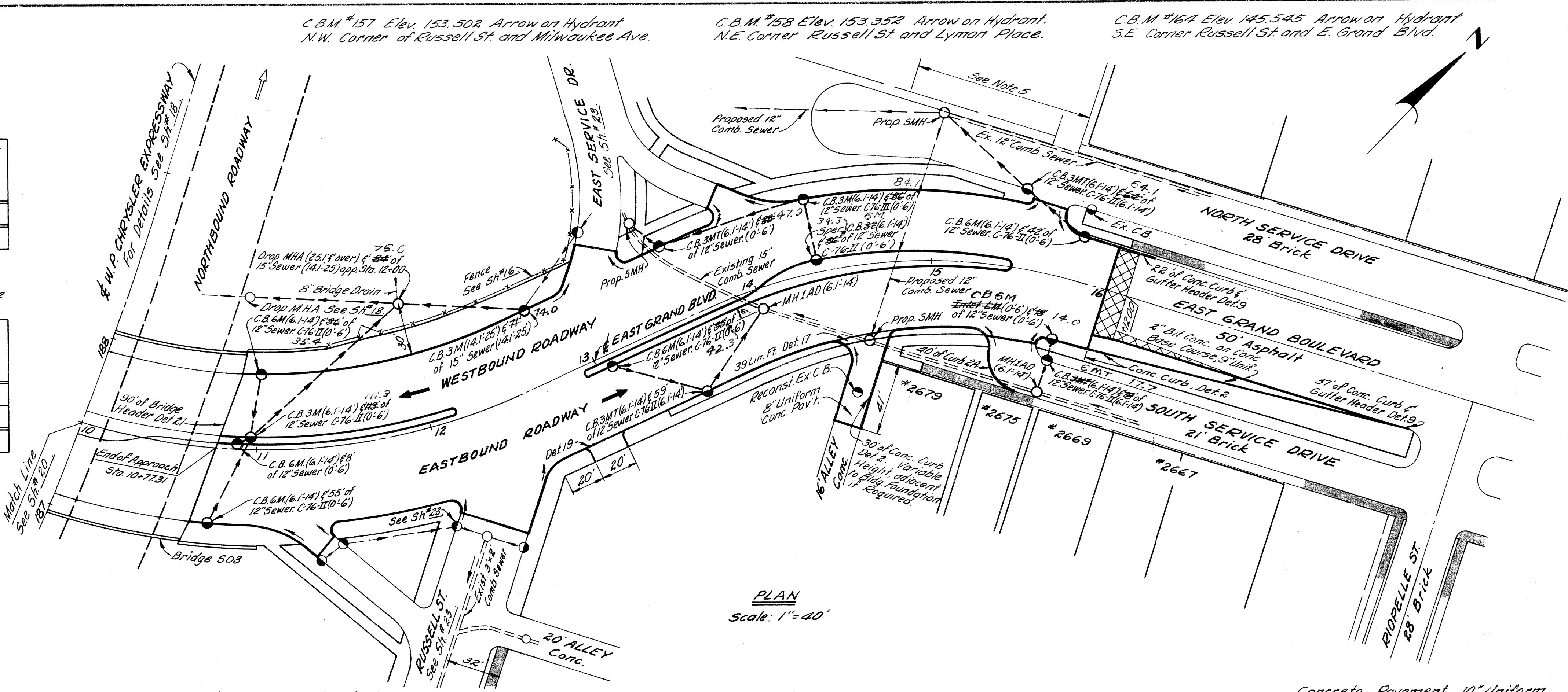
Earth Excavation: - - - - - 25,277 Cu. Yds.
Losses:
Embankment + 25% - - - - - 196
Select Yellow Clay Backfill (CIP):
Drainage This Street - - - - - 247
Total Losses - - - - - 443
Waste - - - - - 24834 Cu. Yds.

Remove Asphalt Surface shown cross-hatched to provide for a smooth connection and to adjust crown. Replace with Bituminous Concrete Pavement.

Station	Remove Ex. Asphalt Surface Sq. Yds.	Replace with Bit. Conc. Pavement Sq. Yds.
16+06	88	88
Totals	88	88

For Replacement Only
5 Tons Bit. Conc. Wearing Course
5 Tons Bit. Conc. Leveling Course

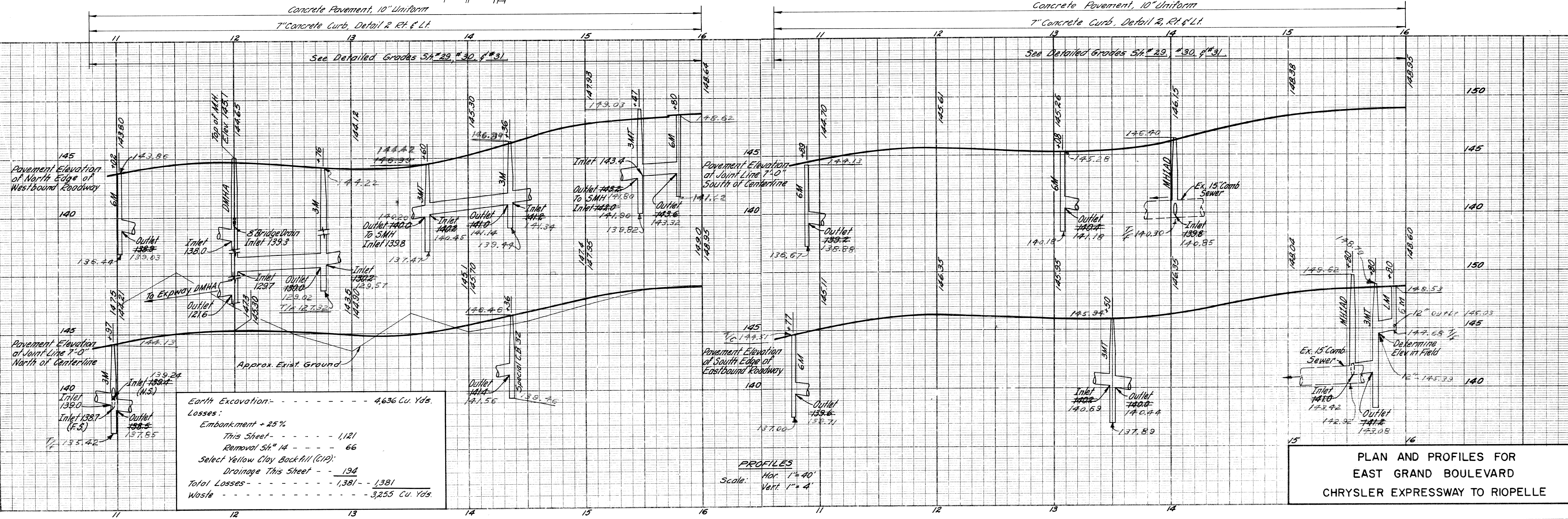
Station	Conc. Drive Return Det. 17 Lin. Ft.	Driveway Opening Det. 18 Lin. Ft.
18+90 Et.	—	30
18+50 Rt.	39	—
Totals	39	30



PLAN
Scale: 1" = 40'

B.P.R. DIV. NO.	STATE	FED. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	I-75-1(10)54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
I-75	82252A	Wayne	Detroit	21	

- NOTES:**
1. For Alignment See Sh. # 8 & # 9.
 2. For Grading including Sidewalk, Fence, Seeding & Sodding See Sh. # 10.
 3. For Construction Sequence See Sh. # 10 & # 11.
 4. Existing Sidewalk to remain.
 5. To provide access to private property, the owner may remove existing curb if required. 100 Lin. Ft. of Conc. Curb Det. 2A, has been estimated to replace this curb.



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

Earth Excavation - - - - - 4,636 Cu. Yds.
Losses:
Embankment + 25%
This Sheet - - - - - 1,121
Removal Sh. # 14 - - - - - 66
Select Yellow Clay Backfill (C1P):
Drainage This Sheet - - - - - 194
Total Losses - - - - - 1,381 - - 1,381
Waste - - - - - 3,255 Cu. Yds.

PLAN AND PROFILES FOR
EAST GRAND BOULEVARD
CHRYSLER EXPRESSWAY TO RIOPELLE

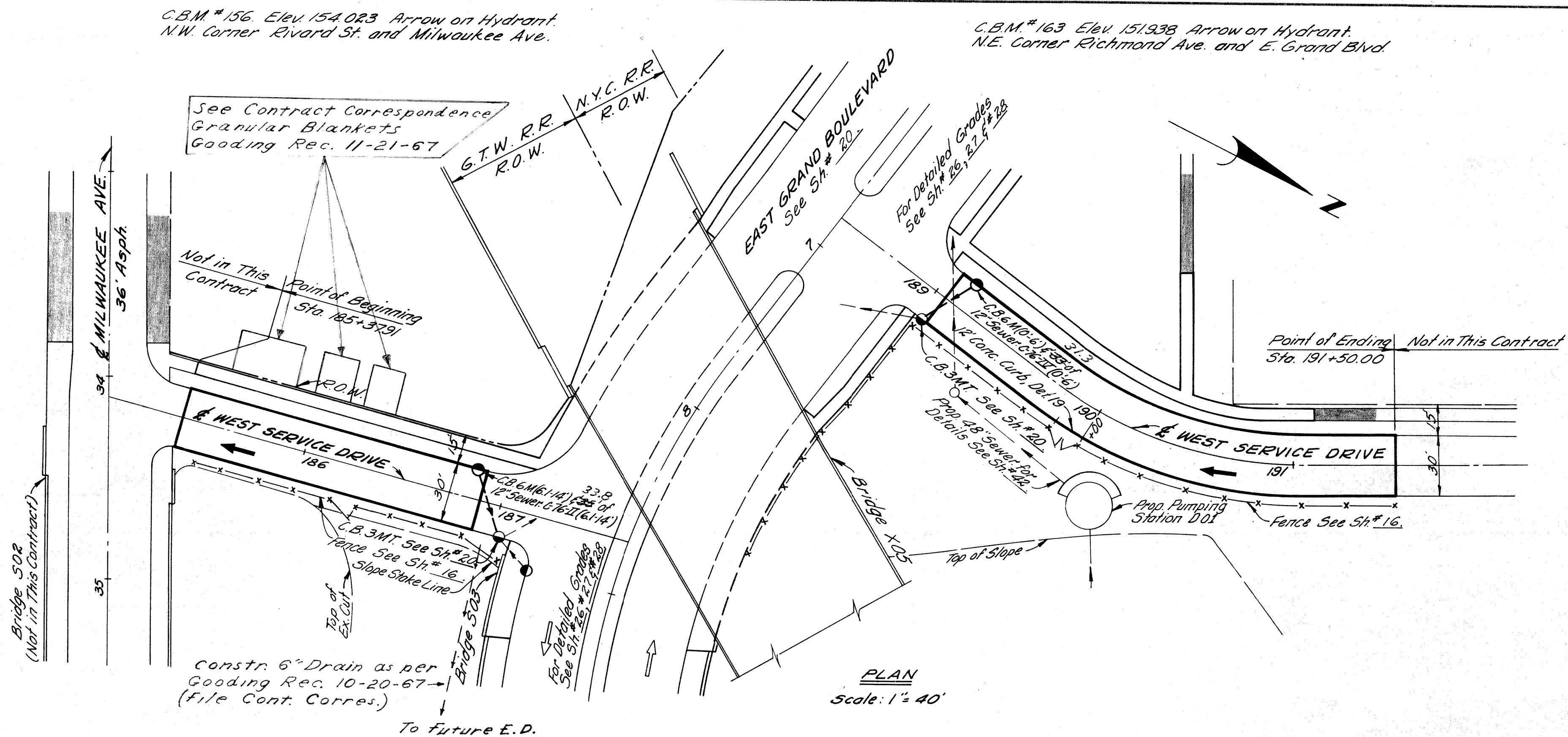
DATE	BY	OPERATION
3/9/64	J. J. WICKLEY	DESIGNED
3/9/64	M. BULLITO	FINAL DESIGN CHECK
3/9/64	N. MALEMI	FINAL P.L.O.W. CHECK
1/1/64	Allen E. Payne	QUANTITIES CHECKED
4-1-64	A. R. Huckle	QUANTITIES CHECKED

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

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

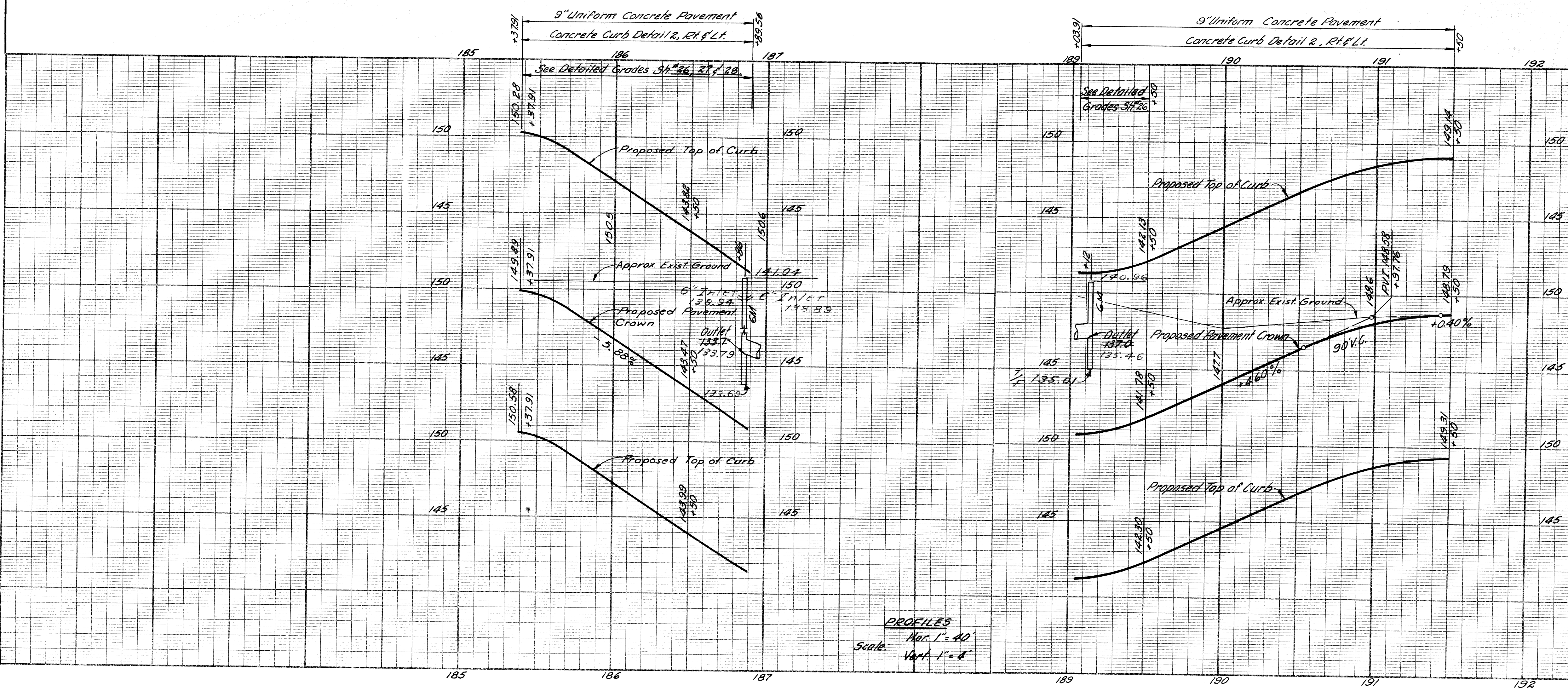
OPERATION	BY	DATE
SURVEYED		
PLAN CHECKED		
PROFILE PLOTTED		
PROFILE CHECKED		
GRAVEL INSPECTION		
FINAL R.O.W. CHECK		

3/9/64	J.V. WIRKEY
3/9/64	M. POLITO
3/9/64	R. PLATER
7/1/64	Edwin E. Papp
4-1-64	H. H. Hockley



B.P.R. DIV. NO.	STATE	FED. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	I-75-178154			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
I-75	82252A	Wayne	Detroit	22	
B.P.R. DIV. NO.	STATE	FED. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS

- NOTES:**
1. For Alignment See Sh. #2, #3
 2. For Grading including Sidewalk, Fence Seeding & Sodding See Sh. #16
 3. For Construction Sequence See Sh. #10, #11
 4. Existing Sidewalk to remain.



Earth Excavation - - - - - 3,885 Cu. Yds.
Losses:
Embankment +2.5%
This Sheet - - 21
Total Losses - - - - - 21
Waste - - - - - 3,864 Cu. Yds.

PLAN AND PROFILES FOR WEST SERVICE DRIVE

FILE NO.	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82252A C2	82252A	I-75-178154	22

Remove Asphalt Surface shown cross-hatched to provide for a smooth connection and to adjust crown. Replace with Bituminous Concrete Pavement

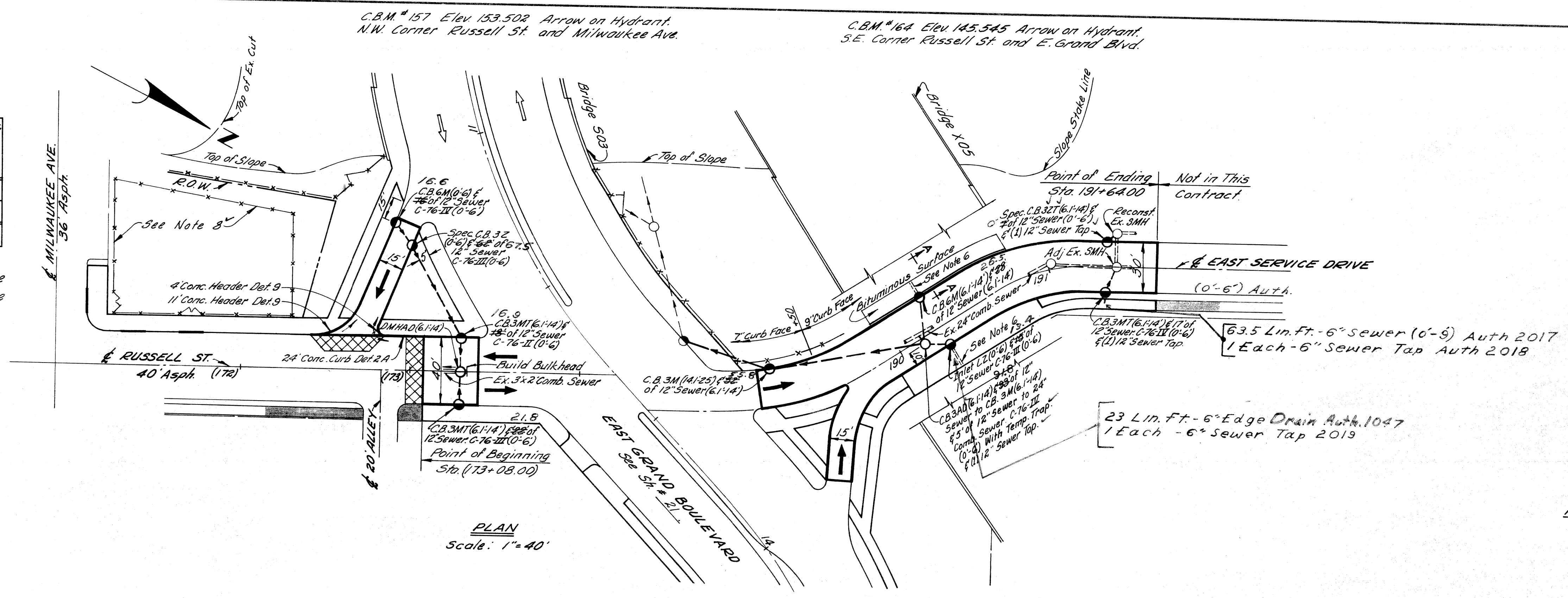
Station	Remove Ex. Asph. Surface Sq. Yds.	Replace with Bit. Conc. Pavement Sq. Yds.
172+63	39	39
173+03	45	45
Totals	84	84

5 Tons Bit. Conc. Wearing Course
5 Tons Bit. Conc. Leveling Course

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

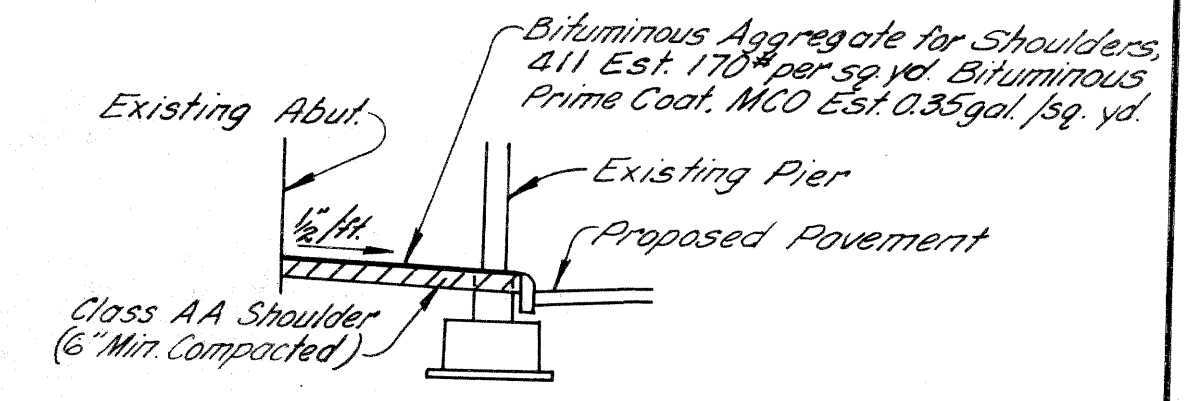
PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PLAN CHECKED		
PROFILE CHECKED		
PRELIMINARY GRADE		
GRADE IN P.L. TYPED		
REVISIONS		



All Pavement shown on this sheet to be 9" Uniform Concrete with concrete curb detail R, T Face Lt. & Rt. Except 9" Face Sta. 189+30 to Sta. 191+64 Left Side.

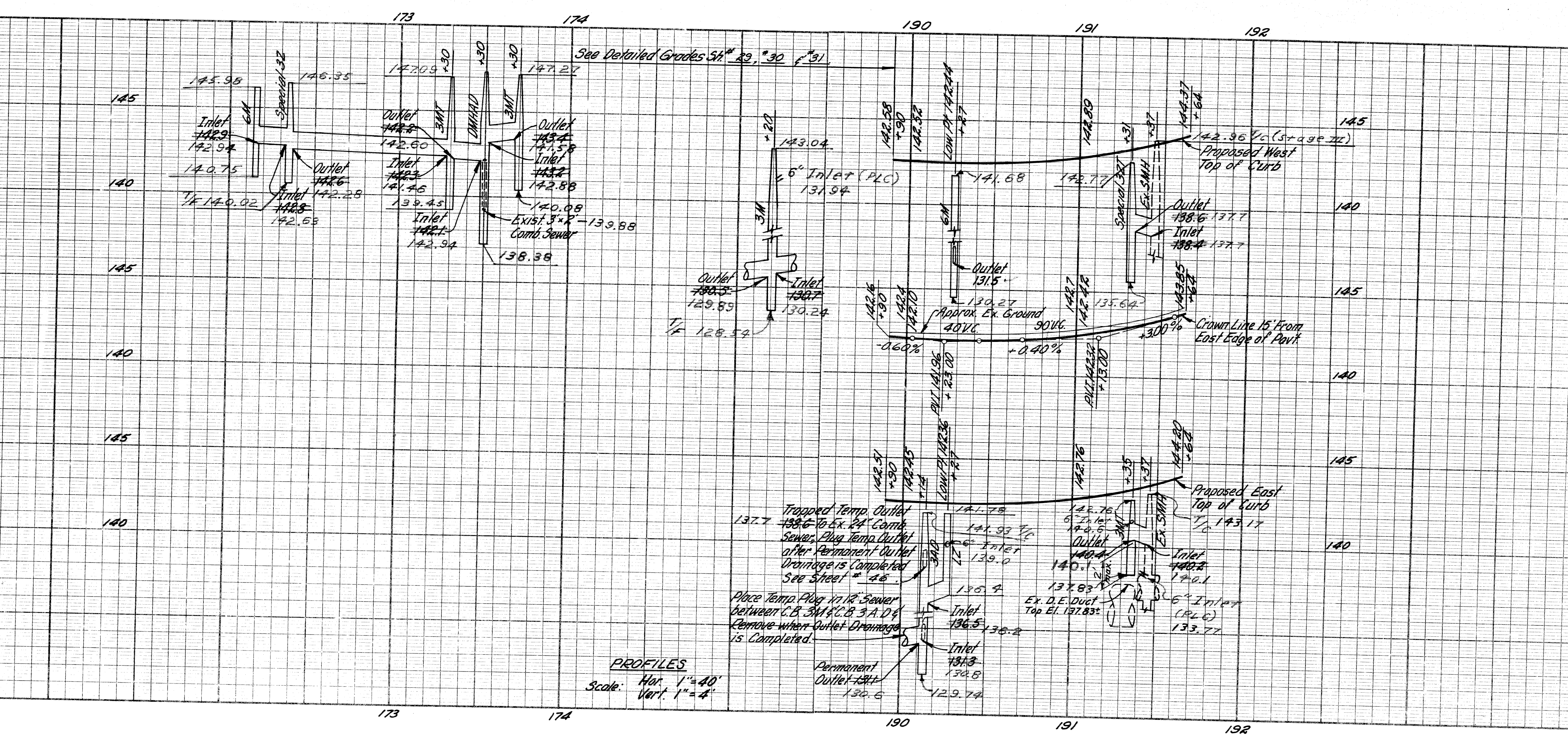
R.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1751(10)54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
I-75	82252A	Wayne	Detroit	23	



- NOTES:
- 1 For Detour Pavement See Sh # 24 & 25
 - 2 For Alignment See Sh # 8 & 9
 - 3 For Grading, including Sidewalk, Fence, Seeding & Sodding See Sh # 16
 - 4 For Construction Sequence See Sh # 10, 11 & 12
 - 5 Existing Sidewalk to remain.
 - 6 Retain existing drains from bridge abutment
 - 7 Stations shown in parenthesis () thus denote existing survey stationing.
 - 8 Provide 3' of 72" Chain Link Fence & (2) 12" Drive Gates for 72" Chain Link Fence to enclose construction office.

WORK THIS SHEET WITH SH # 25

Earth Excavation - - - - -	32 Cu. Yds.
Waste - - - - -	32 Cu. Yds.
Embankment +25% From Sh # 25 - - - - -	653 Cu. Yds.
Select Yellow Clay Backfill (CIP) For Drainage From Sh # 25 - - - - -	19 Cu. Yds.

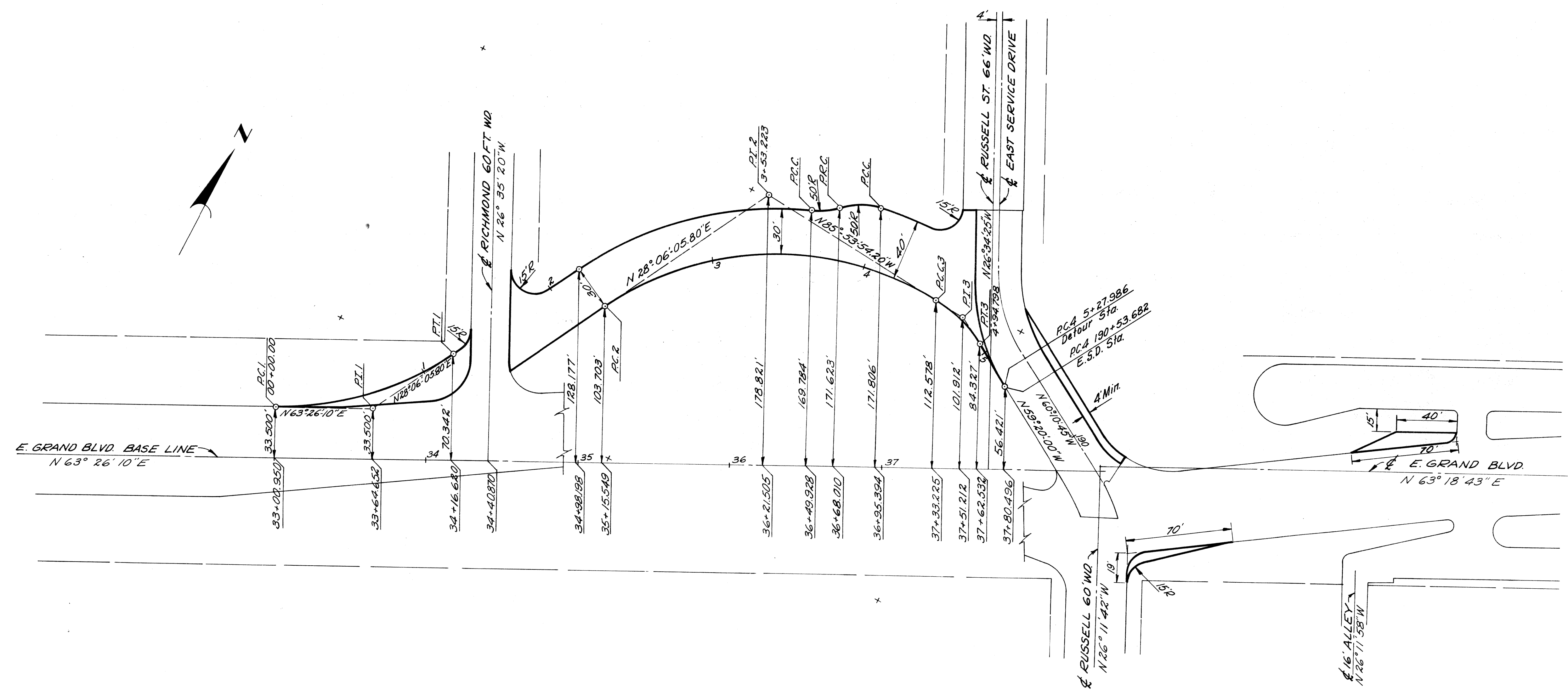


PLAN AND PROFILES FOR
RUSSELL STREET AND
EAST SERVICE DRIVE

C.B.M.#163 Elev 151.938 Arrow on Hydrant
N.E. Corner Richmond Ave. & E. Grand Blvd.

C.B.M.#164 Elev 145.545 Arrow on Hydrant
S.E. Corner Russell St. & E. Grand Blvd.

B.P.R. DIV. NO.	STATE	Fed. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	175-178154			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
I-75	82252A	Wayne	Detroit	24	
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



CURVE DATA EAST GRAND BOULEVARD DETOUR

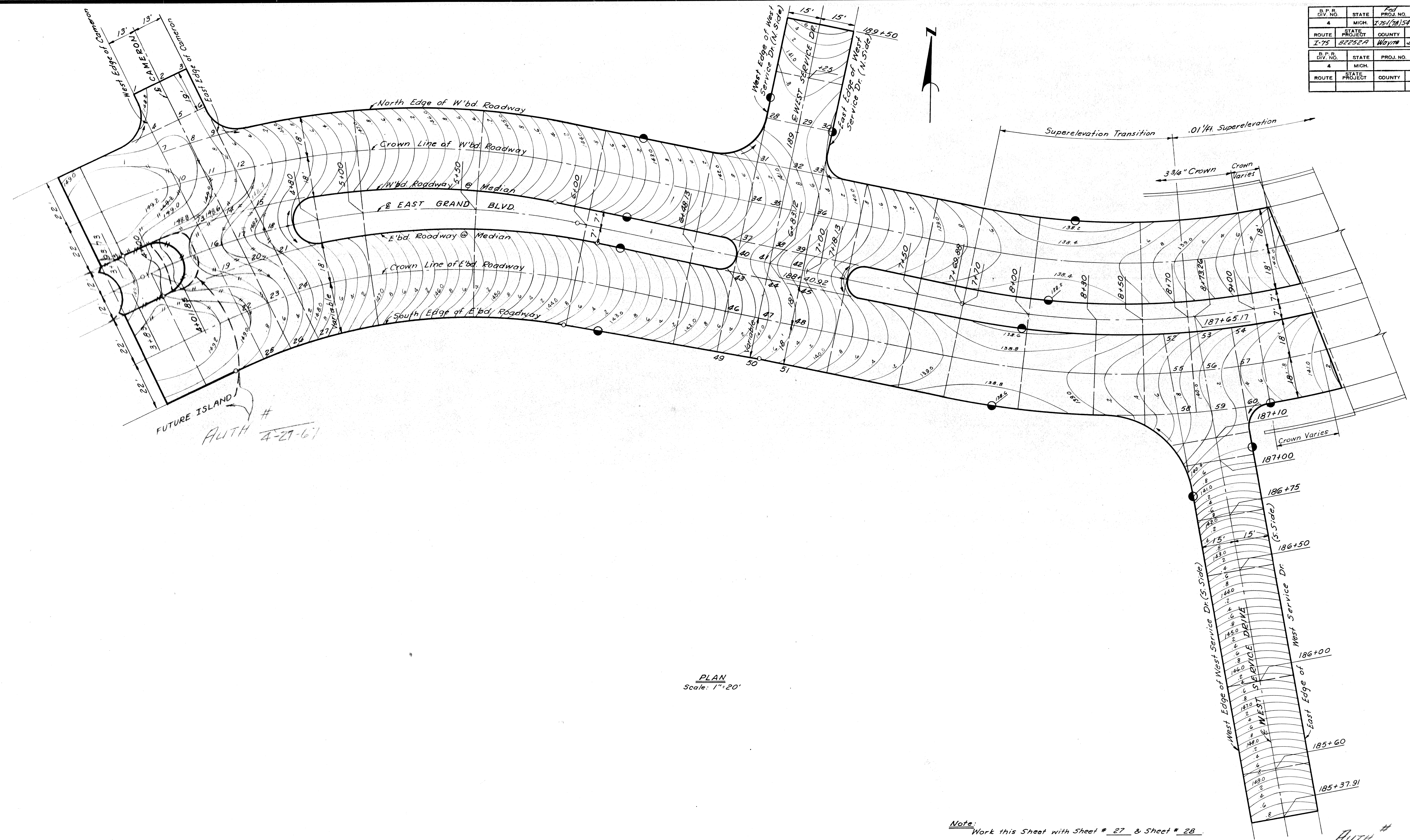
CURVE 1	CURVE 2	CURVE 3
$\Delta = 35^\circ 20' 04.20''$	$\Delta = 66^\circ 00' 00''$	$\Delta = 26^\circ 33' 54.20''$
$D = 28^\circ 38' 52.40''$	$D = 28^\circ 38' 52.40''$	$D = 64^\circ 40' 33.43''$
$R = 200'$	$R = 200'$	$R = 88.589''$
$T = 63.702'$	$T = 129.882'$	$T = 20.913'$
$L = 123.341'$	$L = 230.383'$	$L = 41.074'$
$E = 0.900'$	$E = 23.847'$	$E = 2.435'$
$PC = 0+00.00$	$PC = 2+23.341$	$PC = 4+53.724$
$PI = 0+63.702$	$PI = 3+53.223$	$PI = 4+74.637$
$PT = 1+23.341$	$PT = 4+53.724$	$PT = 4+94.798$

Scale: 1" = 40'

ALIGNMENT
EAST GRAND BOULEVARD DETOUR

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

B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	175-178-54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
I-75	82252A	Wayne	Detroit	26	
B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



PLANS PREPARED BY
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CITY ENGINEER'S OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

3964
3964
3964
4/69
4-24

J.V. NICKLEY
F. CALTHELAND
H. MC LEAN
A. H. BUCKLE

FUTURE ISLAND
AUTH # 4-27-61

PLAN
Scale: 1"=20'

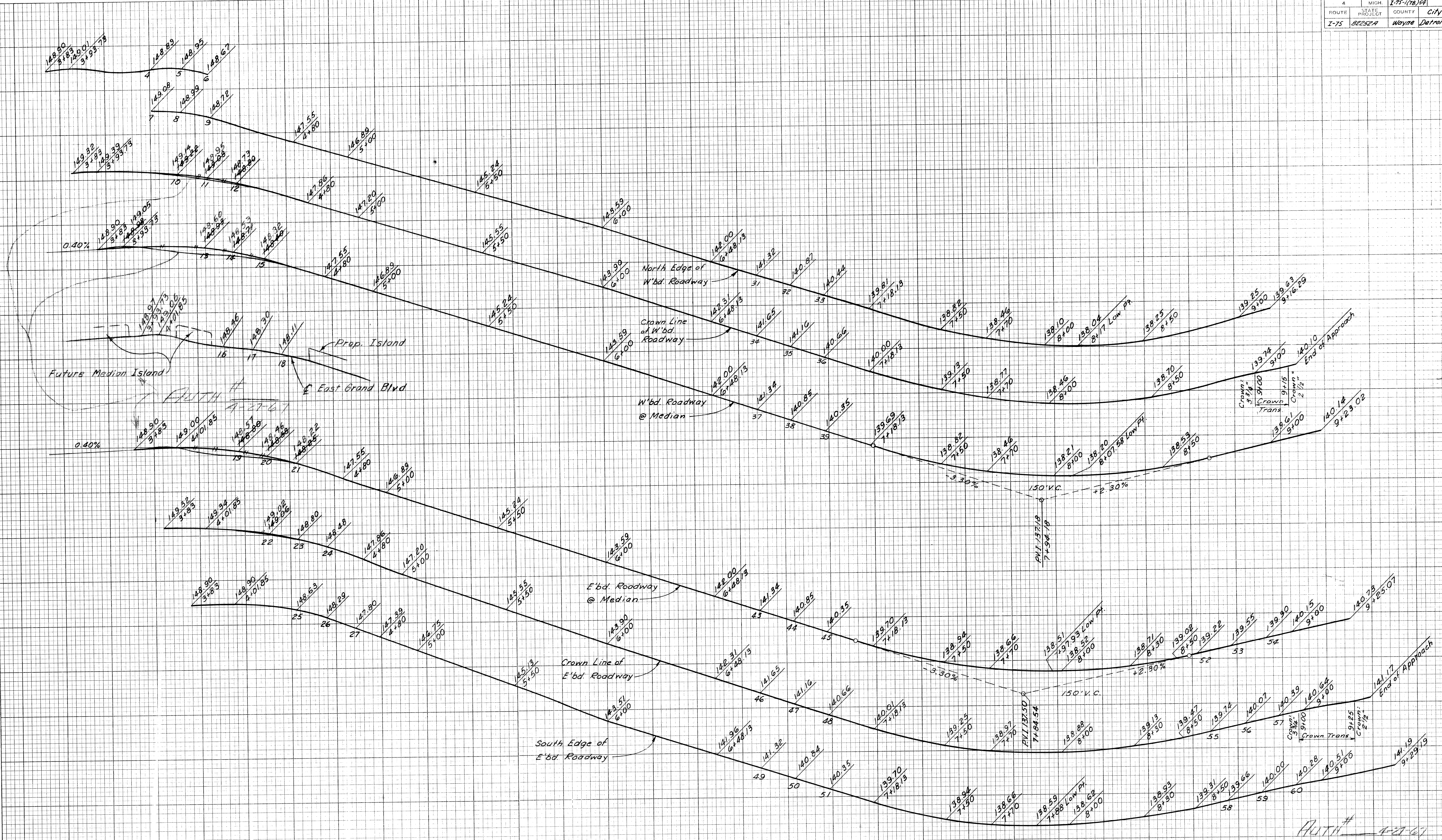
Note: Work this Sheet with Sheet # 27 & Sheet # 28.

AUTH # 4-27-61

DETAILED GRADES FOR
EAST GRAND BOULEVARD
AT CAMERON & W. SERVICE DRIVE

FILE NO.	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82252A C2	175-178-54		26

B. P. R. DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	1-75-178-15A			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
I-75	82252A	Wayne	Detroit	28	



DATE	BY

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

3/9/64
3/9/64
N. McLEEN
Blair E. Payne
A. J. Wheeler

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

Auth # 4-27-61
Note: Work this Sheet with Sh # 26 & 27

DETAILED GRADES FOR
EAST GRAND BOULEVARD
AT CAMERON & W. BOULEVARD DRIVE

FILE NO.	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82252A C2	82252A	1-75-178-15A	28

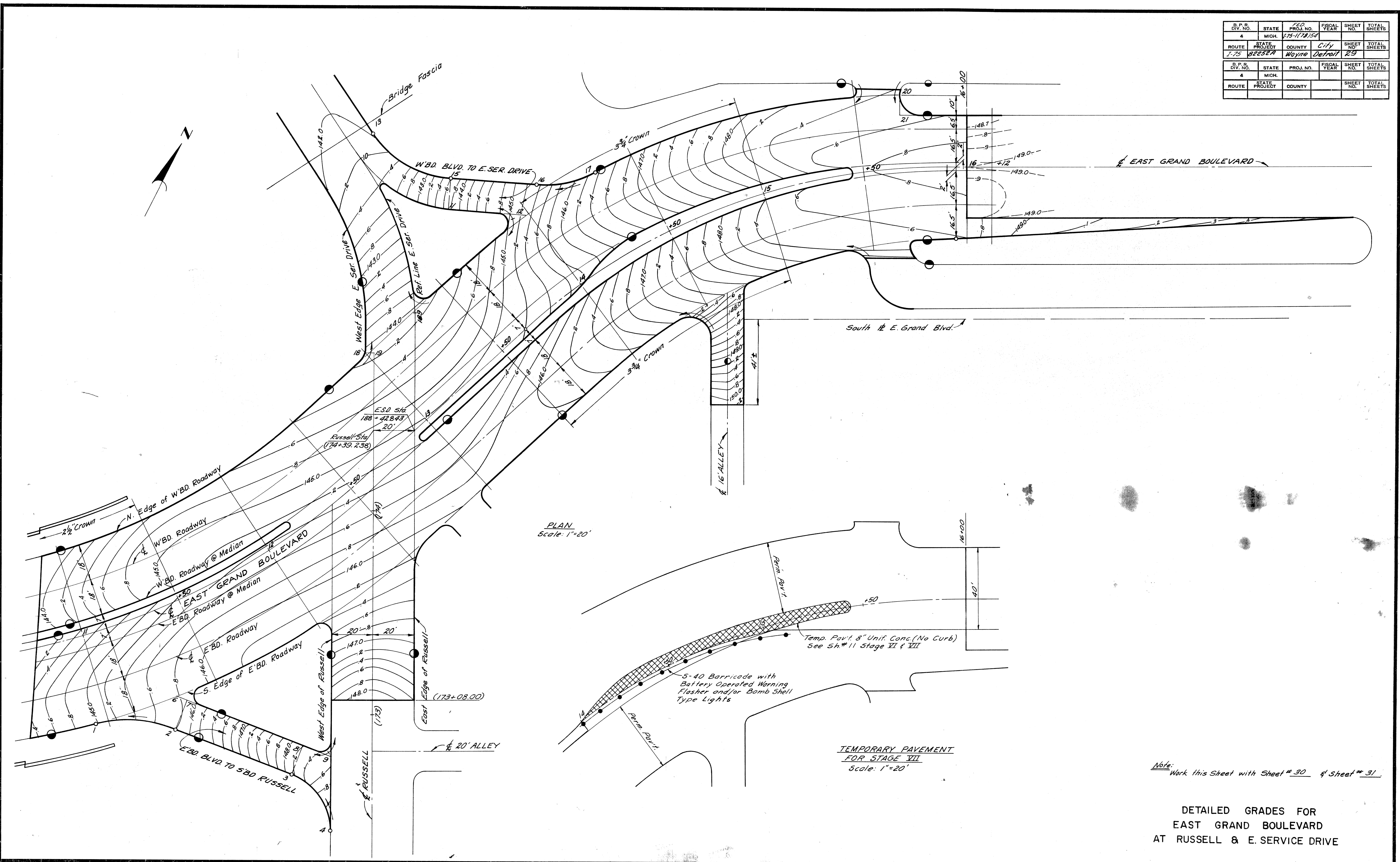
B.P.R. DIV. NO.	STATE	FED. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	175-178-5A			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
1-75	82252A	Wayne	Detroit	29	
B.P.R. DIV. NO.	STATE	FED. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

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

3/9/64
3/9/64
3/9/64
4/1/64
4-1-64

J.V. WILKEY
M. POLITO
C. LEWIS
A. E. PAPP
H. R. HICKS

DESIGNED BY
CHECKED BY
IN CHARGE
DATE



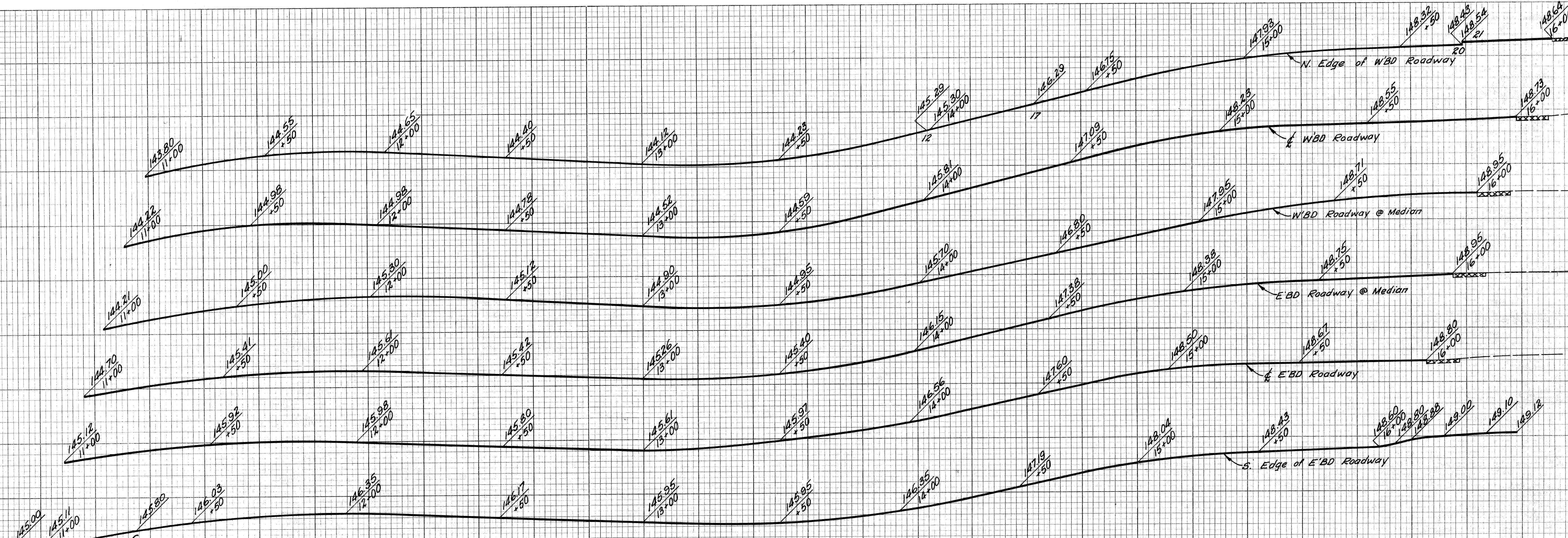
PLAN
Scale: 1"=20'

TEMPORARY PAVEMENT
FOR STAGE VII
Scale: 1"=20'

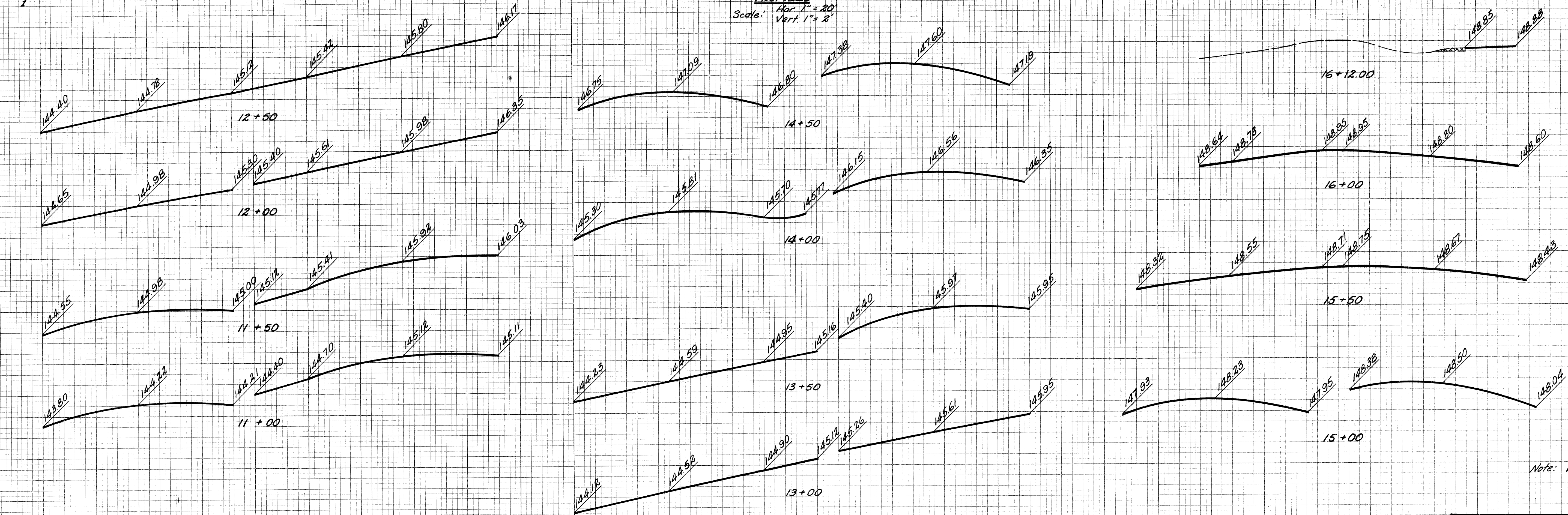
Note: Work this Sheet with Sheet # 30 & Sheet # 31.

DETAILED GRADES FOR
EAST GRAND BOULEVARD
AT RUSSELL & E. SERVICE DRIVE

D.P.R. DIST. NO.	STATE	FED. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7-75	MICH.	82252A	1954	30	30
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
7-75	82252A	Wayne	Detroit	30	30



PROFILES
 Hor. 1" = 80'
 Vert. 1" = 2'



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

Note: Work this Sheet with 54*29 & 31

**DETAILED GRADES FOR
 EAST GRAND BOULEVARD
 AT RUSSELL & E. SERVICE DRIVE**

FILE NO. 82252A C2 STATE PROJECT 82252A FEDERAL PROJECT 82252A SHEET NO. 30 TOTAL SHEETS 30

DATE	BY

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

DESIGNED BY
 CHECKED BY
 DRAWN BY
 DATE

SCALE

