MINNESOTA DEPARTMENT OF TRANSPORTATION

THE COUNTY OF OLMSTED

CONSTRUCTION PLAN FOR GRADING, SURFACING & CURB AND GUTTER

LOCATED ON C.S.A.H. 22 **BETWEEN** T.H. 52 **AND** T.H. 63 IN ROCHESTER **(GEOGRAPHIC DESCRIPTION)**

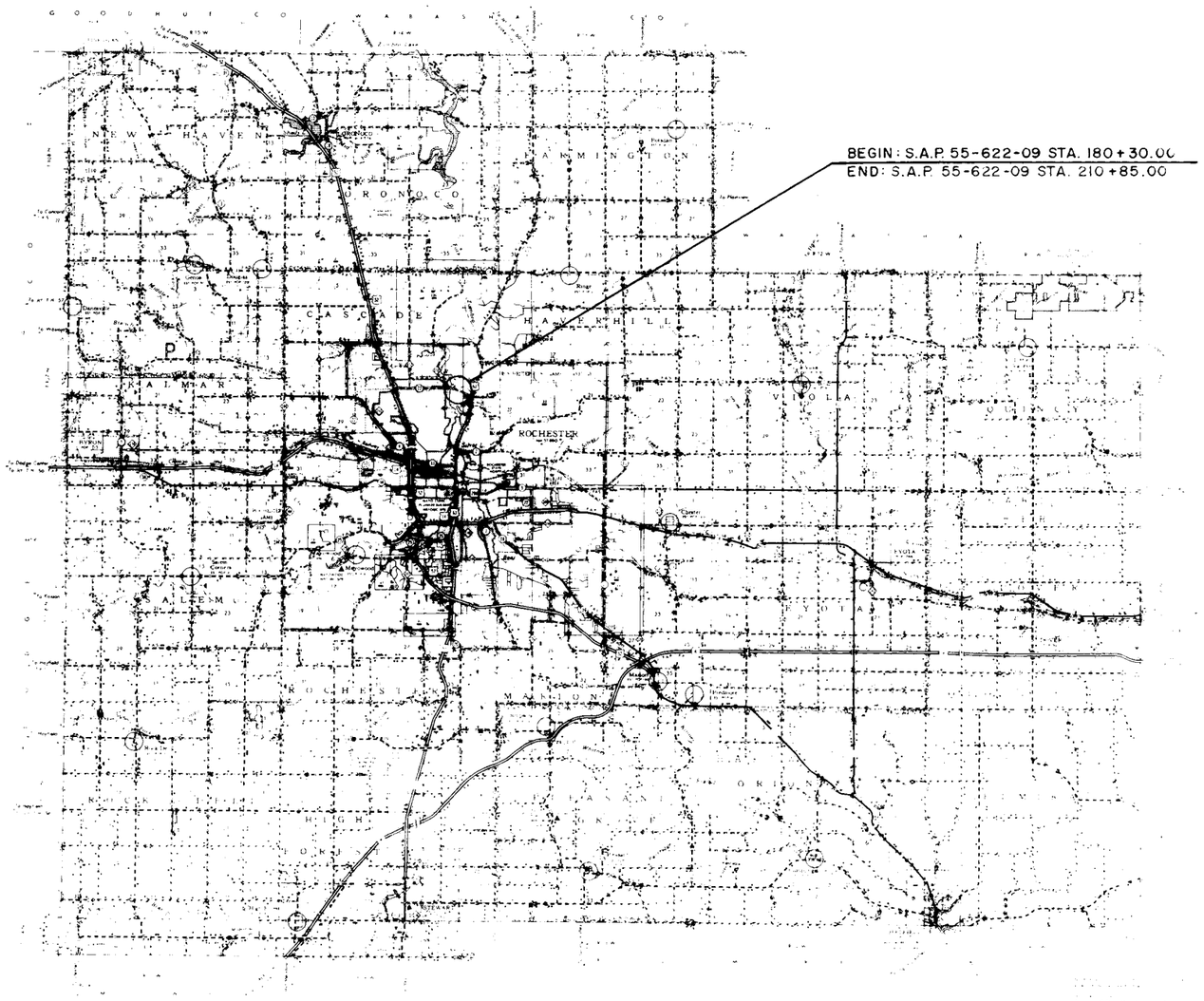
FROM 1386.60' N & 378.17' E OF CENTER SEC. 23 T107N-R14W **TO** 2083.42' W & 469.28' N OF CENTER SEC. 24 T107N-R14W **(LEGAL DESCRIPTION)**

STATE PROJ. NO. .....

GROSS LENGTH	FEET		MILES
BRIDGES-LENGTH	FEET		MILES
EXCEPTIONS-LENGTH	FEET		MILES
NET LENGTH	FEET		MILES

~~**STATE PROJ. NO.**~~ S.A.P. 55-622-09

GROSS LENGTH	3055.0	FEET 0.579	MILES
BRIDGES-LENGTH		FEET	MILES
EXCEPTIONS-LENGTH		FEET	MILES
NET LENGTH	3055.0	FEET 0.579	MILES



SCALES

PLAN 0 50'

PROFILE 0 10' VERT. 0 50' HORIZ.

INDEX MAP 0 10,560'

CROSS SECTIONS 0 10' VERT. AND HORIZ.

PLANS SYMBOLS

STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
RIGHT OF WAY LINE
PRESENT RIGHT OF WAY LINE
CONTROL OF ACCESS LINE
PROPERTY LINE (Except Land Lines)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
RAILROAD
RAILROAD RIGHT OF WAY LINE
RIVER OR CREEK
DRY RUN
DRAINAGE DITCH
DRAIN TILE
CULVERT
DROP INLET
GUARD RAIL
BARBED WIRE FENCE
WOVEN WIRE FENCE
CHAIN LINK FENCE
RAILROAD SNOW FENCE
STONE WALL OR FENCE
HEDGE
RAILROAD CROSSING SIGN
RAILROAD CROSSING BELL
ELECTRIC WARNING SIGN
CROSSING GATE
MEANDER CORNER
SPRINGS
MARSH
TIMBER
ORCHARD
BRUSH
NURSERY
CATCH BASIN
FIRE HYDRANT
CATTLE GUARD
OVERPASS (Highway Over)
UNDERPASS (Highway Under)
BRIDGE
BUILDING (One Story Frame)
F FRAME C CONCRETE
S STONE T TILE
B BRICK ST STUCCO
IRON PIPE OR ROD
MONUMENT (STONE CONCRETE OR METAL)
WOODEN HUB
GRAVEL PIT
SAND PIT
BORROW PIT
ROCK QUARRY
SLOPE EASEMENT

UTILITIES SYMBOLS

POWER POLE LINE
TELEPHONE OR TELEGRAPH POLE LINE
JOINT TELEPHONE AND POWER ON POWER POLES
ON TELEPHONE POLES
ANCHOR
STEEL TOWER
STREET LIGHT
PEDESTAL (TELEPHONE CABLE TERMINAL)
GAS MAIN
WATER MAIN
CONDUIT
TELEPHONE CABLE IN CONDUIT
ELECTRIC CABLE IN CONDUIT
TELEPHONE MANHOLE
ELECTRIC MANHOLE
BURIED TELEPHONE CABLE
BURIED ELECTRIC CABLE
AERIAL TELEPHONE CABLE
SEWER (SANITARY OR STORM)
SEWER MANHOLE

MINN. PROJ. NO. .....

GOVERNING SPECIFICATIONS

THE 1988 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS.

INDEX

SHEET NO. 1	TITLE SHEET
SHEET NO. 2	ESTIMATE OF QUANTITIES
SHEET NO. 3	TYPICAL SECTIONS AND CONCRETE MEDIAN DETAIL DRAWING
SHEET NO. 4	DETAIL DRAWING.
SHEET NO. 5-7	PLAN AND PROFILE SHEETS
SHEET NO. 8	TRAFFIC CONTROL LAYOUT
SHEET NO. 9-14	CROSS SECTIONS

DESIGN DESIGNATION

R — ESN18(20)

ADT (Current Year) = 15407(1989) — Design Speed 50 MPH

ADT (Future Year) = 27733(2009) — Based on Stopping Sight Distance

DHV (Design Hr. Vol.) = — Height of eye 3.5' Height of object 0.5

D (Directional Distr.) = %

T (Heavy Commercial) = 4.2 %

Design Speed not achieved at:

STA.	TO STA.	MPH
STA.	TO STA.	MPH
STA.	TO STA.	MPH

SOIL FACTOR 75

10 TON DESIGN

NO. OF TRAFFIC LANES 4

NO. OF PARKING LANES 0

SHOULDER WIDTH 8'

PROJ. HCADT 1164 (2009)

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE ..... REG. NO. ..... ENGR. .....

COUNTY .....

Recommended for Approval ..... 19 .....
DISTRICT STATE AID ENGINEER

Recommended for Approval ..... 19 .....
STATE AID PLANS AND SPECS ENGINEER

Approved ..... 19 .....
STATE AID ENGINEER

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED

DIVISION ADMINISTRATOR ..... DATE .....

STATE AID PROJ. NO. 55-622-09

~~**STATE PROJ. NO.**~~ .....

SHEET NO. 1 **OF** 14 **SHEETS**

ESTIMATED QUANTITIES

	SPECIFICATION NO.	ITEM	UNIT	PARTICIPATING MUNICIPAL	NON PARTICIPATING MUNICIPAL	PARTICIPATING RURAL	NON PARTICIPATING RURAL	STORM SEWER PARTICIPATING MUNICIPAL	STORM SEWER PARTICIPATING RURAL	TOTAL ESTIMATED QUANTITIES
	2021.501	MOBILIZATION	LUMP SUM	0.63	0.01	0.32	0.01	0.02	0.01	1
	2101.502	CLEARING	TREE	33		2				35
	2101.507	GRUBBING	TREE	40		2				42
	2104.501	REMOVE PIPE CULVERT	LIN. FT.	217		40				257
(1)	2105.515	UNCLASSIFIED EXCAVATION	CU. YD.	13271	504	8934	332			(P) 23041
	2105.523	COMMON BORROW (LV)	CU. YD.	552		252				804
	2105.535	SALVAGED TOPSOIL (EV)	CU. YD.	888		526				1414
(2)	2211.503	AGGREGATE BASE PLACED, CLASS 6	CU. YD.	3664	123	2113	134			(P) 6034
	2221.503	AGGREGATE SHOULDERING PLACED, CLASS 6	CU. YD.	972		665				1637
	2331.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	493	8	257	8			766
(3)	2331.508	WEARING COURSE MIXTURE (MODIFIED)	TON	60	121	199	133			516
(4)	2331.514	BASE COURSE MIXTURE (MODIFIED)	TON	9020		4510				13530
	2331.516	SHOULDERING MIXTURE (MODIFIED)	TON	180		100				280
	2341.504	BITUMINOUS MATERIAL FOR MIXTURE	TON	86		45				131
(5)	2341.508	WEARING COURSE MIXTURE (MODIFIED)	TON	1382		729				2111
	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	2900		1328				4228
	2501.511	18" C.S. PIPE CULVERT	LIN. FT.	86		42				128
	2501.511	24" C.S. PIPE CULVERT	LIN. FT.	22						22
	2501.515	18" G.S. PIPE APRONS	EACH	4		2				6
	2501.515	24" G.S. PIPE APRONS	EACH	2						2
(6)	2501.515	12" R.C. PIPE APRONS	EACH					4	2	6
	2501.521	36" SPAN R.C.P.-ARCH CULV. CLASS II A	LIN. FT.	232						232
	2501.525	36" SPAN R.C.P.-APRONS	EACH	4						4
(6)	2503.511	12" R.C. PIPE SEWER CLASS IV	LIN. FT.					236	121	357
	0504.602	ADJUST VALVE BOX	EACH		4		2			6
	0504.605	4" POLYSTYRENE INSULATION	SQ. YD.		73					73
(6)	2506.509	CONSTRUCT CATCH BASIN DESIGN C OR G	EACH					7	4	11
	2506.511	RECONSTRUCT MANHOLES	LIN. FT.				2			2
	2511.501	RANDOM RIPRAP CLASS III	CU. YD.	18						18
	2511.511	GRANULAR FILTER	CU. YD.	9						9
	2521.501	4" CONCRETE WALK	SQ. FT.		74		74			148
	2531.501	CONCRETE CURB AND GUTTER DESIGN B624	LIN. FT.	2094		1780				3874
	2531.505	CONCRETE MEDIAN	LIN. FT.	200						200
	2545.521	4" RIGID STEEL CONDUIT	LIN. FT.	108		108				216
	0565.602	CONCRETE HANDHOLE WITH TYPE LD METAL FRAME & COVER	EACH	1		1				2
	2554.501	TRAFFIC BARRIER DESIGN B8307	LIN. FT.	300						300
	2554.521	ANCHORAGE ASSEMBLES-PLATE BEAM FOR BRIDGE	EACH	4						4
	2554.523	TWISTED END TREATMENT	EACH	4						4
	0563.601	TRAFFIC CONTROL	LUMP SUM	0.69		0.31				1
(7)	2573.501	BALE CHECK	EACH	50		15				65
	2575.501	SEEDING	ACRE	2.3		1				(P) 3.3
	2575.502	SEED MIXTURE 600	POUND	175		75				250
(8)	2575.505	SODDING	SQ. YD.	1533		977				2510
	2575.511	MULCH MATERIAL TYPE 1	TON	5.5		2.5				8
	2575.519	DISC ANCHORING	ACRE	2.3		1				(P) 3.3
	2575.532	COMMERCIAL FERTILIZER, ANALYSIS 12-12-12	POUND	1150		500				1650

P = PLAN

(1) UNCLASSIFIED EXCAVATION INCLUDES SUBGRADE TREATMENT AS SHOWN IN THE CROSS SECTIONS.
(2) AGGREGATE BASE PLACED INCLUDES 4928 CU YDS FOR MAINLINE, 581 CU YDS FOR RIGHT AND LEFT TURN LANES, 268 CU YDS FOR SIX APPROACHES AND 257 CU YDS FOR BIKE PATH.
(3) WEARING COURSE MIXTURE TO BE USED AS SHOWN IN TRAFFIC CONTROL LAYOUT PLAN SHEET NO. 8. 259 TONS AND 257 TONS FOR BIKE PATH.
(4) BASE COURSE MIXTURE INCLUDES 9961 TONS FOR MAINLINE, 2863 TONS FOR RIGHT AND LEFT TURN LANES AND 92 TONS FOR FIVE APPROACHES.
(5) WEARING COURSE MIXTURE INCLUDES 1550 TONS FOR MAINLINE, 500 TONS FOR RIGHT AND LEFT TURN LANES AND 61 TONS FOR SIX APPROACHES.
(6) STORM SEWER WORK.
(7) BALE CHECK TO BE USED FOR EROSION CONTROL AS DIRECTED BY THE ENGINEER
(8) SODDING INCLUDES 1460 SQ. YDS. FOR MEDIAN AND 50 SQ. YDS. AT INLET APRON @ CULVERTS STA. 204+05 AND 204+12 AND 600 SQ. YDS. FOR DITCH LINER RT. STA. 204+00 TO STA. 210+35.

BASIS PLANNED QUANTITIES

BITUMINOUS WEARING COURSE 2341 MOD.
BITUMINOUS MATERIAL - 6.2% OF MIXTURE BY WEIGHT
BITUMINOUS MIXTURE - 110 POUNDS/SQ. YD./INCH OF DEPTH.

BITUMINOUS WEARING COURSE 2331 MOD.
BITUMINOUS MATERIAL - 6.2% OF MIXTURE BY WEIGHT
BITUMINOUS MIXTURE - 110 POUNDS/SQ. YD./INCH OF DEPTH.

BITUMINOUS BASE COURSE 2331 MOD.
BITUMINOUS MATERIAL - 5.3% OF MIXTURE BY WEIGHT
BITUMINOUS MIXTURE - 110 POUNDS/SQ. YD./INCH OF DEPTH.

SHOULDER MIXTURE 2331 MOD.
BITUMINOUS MATERIAL - 6.2% OF MIXTURE BY WEIGHT
BITUMINOUS MIXTURE - 110 POUNDS/SQ. YD./INCH OF DEPTH.

BITUMINOUS MAT'L. FOR TACK COAT.
0.05 GALLON/SQ. YD.

SEED MIXTURE 600
75 POUNDS/ACRE

MULCH MAT'L TYPE 1
2.5 TONS/ACRE

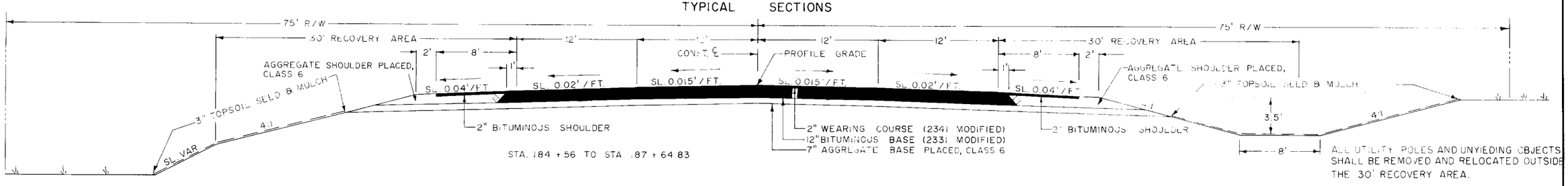
COMERCIAL FERTILIZER
500 POUNDS/ACRE.

STANDARD PLATES

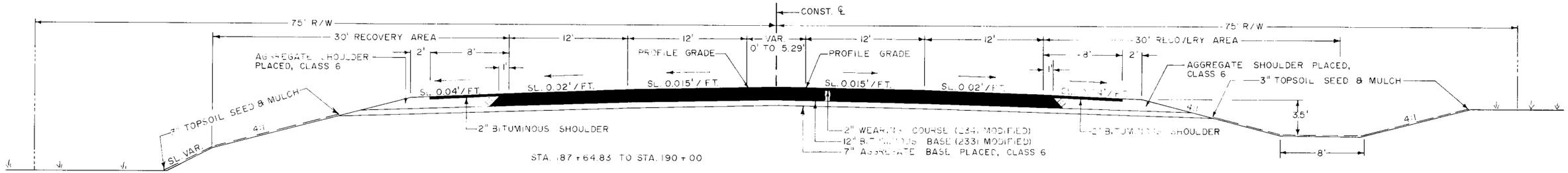
THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.

PLATE NO.	DESCRIPTION
0004 A	SPECIFICATION REFERENCE TO STANDARD PLATES
3000 K	REINFORCED CONCRETE PIPE.
3007 B	SHEAR REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES
3014 J	REINFORCED CONCRETE PIPE ARCH DETAIL
3040 F	CORRUGATED METAL PIPE CULVERT.
3100 G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3110 G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE-ARCH
3123 I	METAL APRON FOR C.S. PIPE.
3124 B	METAL APRON CONNECTION.
3145 E	CONCRETE PIPE TIES.
3221 C	CORRUGATED STEEL PIPE COUPLING BAND
4002 E	MANHOLE OR CATCH BASIN DESIGN C.
4006 K	MANHOLE OR CATCH BASIN DESIGN G.
4010 G	CONC. SHORT CONE & ADJUSTMENT RING
4020 D	PRECAST CONCRETE BASE.
4129 I	CATCH BASIN FRAME CASTING.
4132 E	CATCH BASIN FRAME CASTING.
4152 B	CATCH BASIN GRATE CASTING.
4160 D	CURB BOX CASTING FOR CATCH BASIN (FOR DESIGN B CURB)
7100 F	CONCRETE CURB AND GUTTERS. DESIGN B.
7110 E	CURB AND GUTTER CONSTRUCTION AT CATCH BASINS.
7111 G	INSTALLATION & REINFORCEMENT OF CATCH BASIN CASTINGS.
8000 I	STANDARD BARRICADES.
8003 B	BREAKAWAY SIGN SUPPORT.
8117 F	PRECAST CONCRETE HANDHOLE TYPE LD.
8317 D	GUARDRAIL ANCHORAGE ASSEMBLY FOR BRIDGES.
8319 G	TWISTED END TREATMENT.
9000 B	APPROACHES AND ENTRANCES.
9102 C	SODDING AT PIPE CULVERT ENDS.
8307 N	STEEL PLATE BEAM GUARDRAIL. DESIGN B

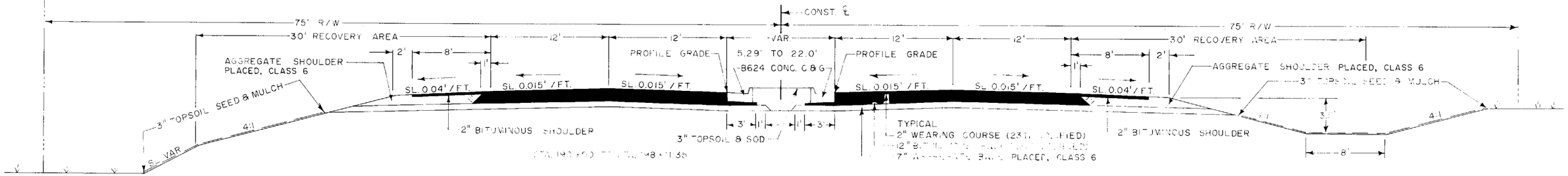
TYPICAL SECTIONS



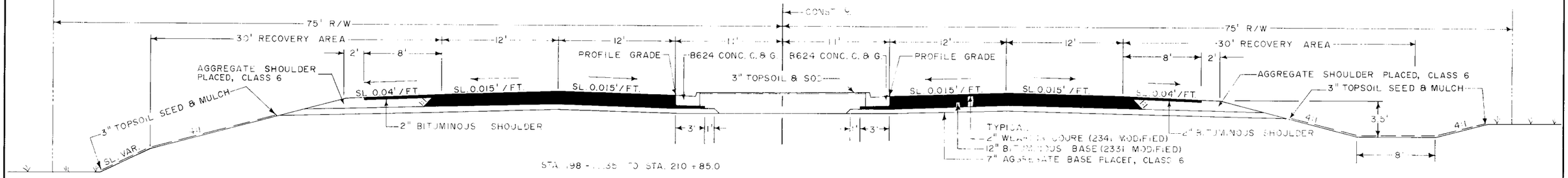
STA. 184 + 56 TO STA. 187 + 64.83



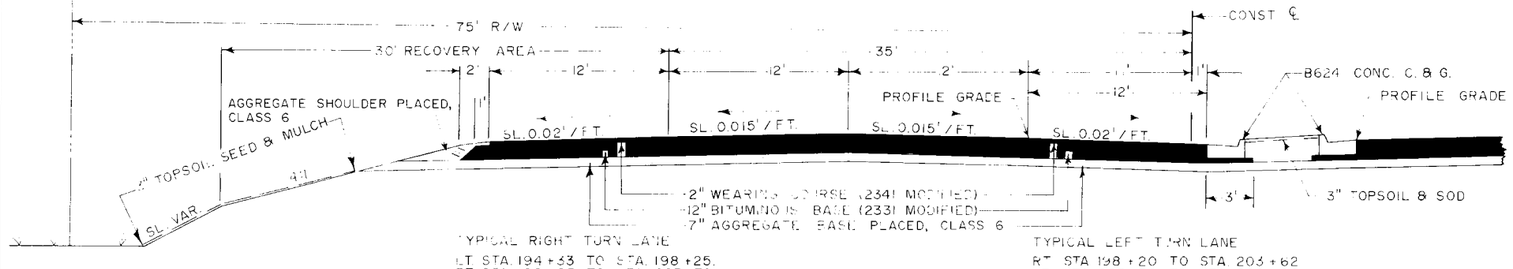
STA. 187 + 64.83 TO STA. 190 + 00



STA. 190 + 00 TO STA. 198 + 71.35



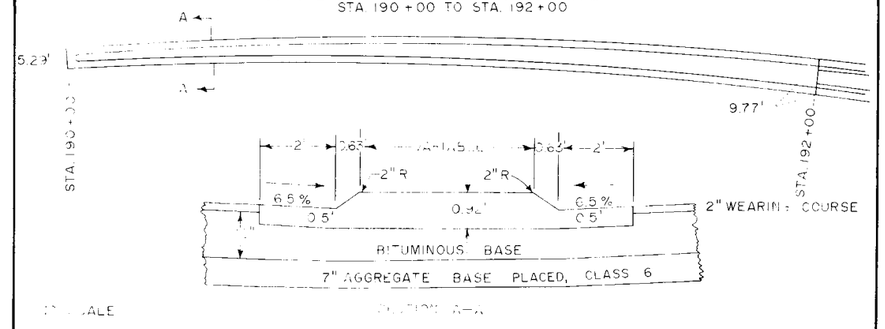
STA. 198 + 71.35 TO STA. 210 + 85.0



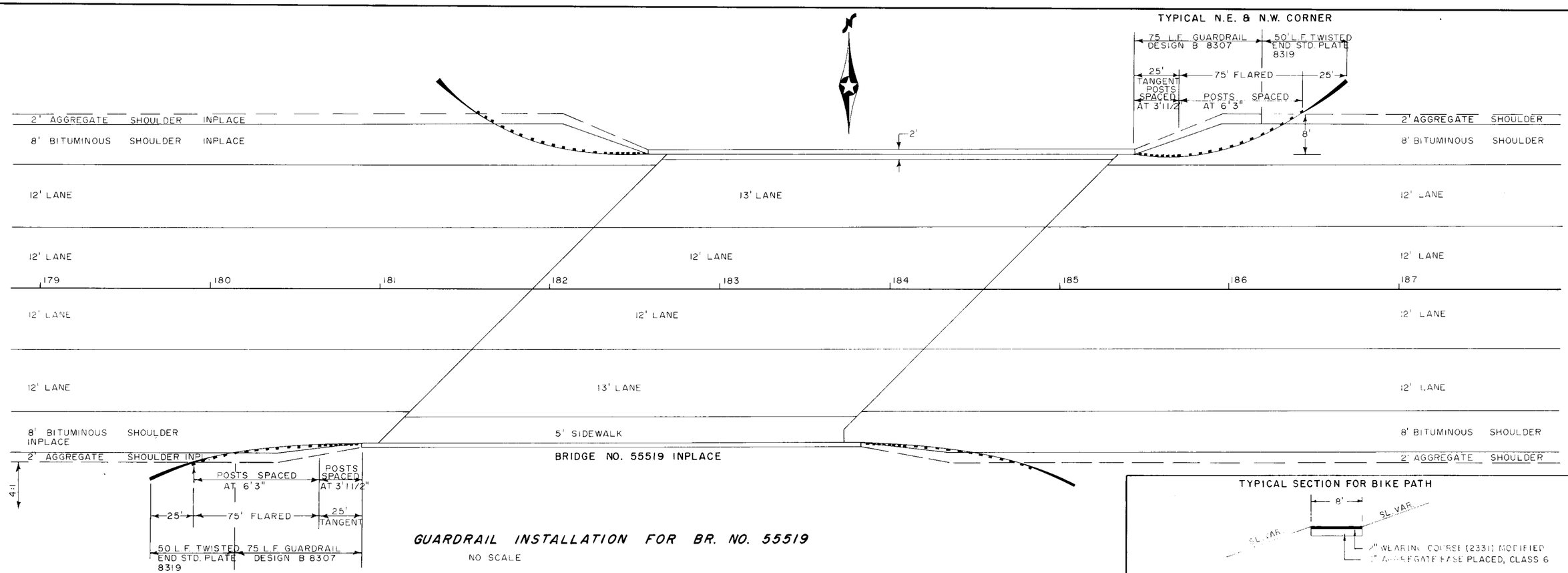
TYPICAL RIGHT TURN LANE
LT. STA. 194 + 53 TO STA. 198 + 25.
RT. STA. 198 + 85 TO STA. 203 + 70.
LT. STA. 200 + 90 TO STA. 202 + 72.
LT. STA. 203 + 62 TO STA. 210 + 85.
RT. STA. 204 + 90 TO STA. 207 + 00.
RT. STA. 207 + 55 TO STA. 210 + 85.

TYPICAL LEFT TURN LANE
RT. STA. 198 + 20 TO STA. 203 + 62.
LT. STA. 203 + 70 TO STA. 209 + 20.
RT. STA. 207 + 40 TO STA. 210 + 85.

CONCRETE MEDIAN MOUNTABLE TYPE
STA. 190 + 00 TO STA. 192 + 00



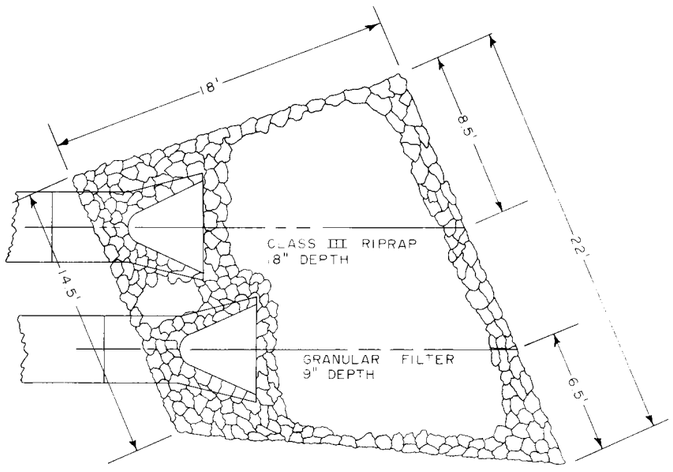
SECTION A-A



GUARDRAIL INSTALLATION FOR BR. NO. 55519

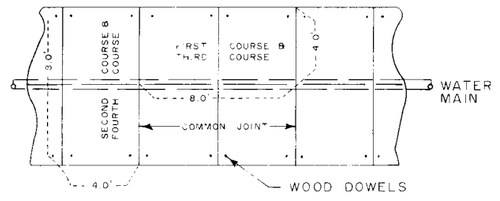
NO SCALE

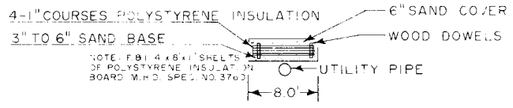
AT LOCATIONS SHOWN IN THE PLANS



RIPRAP AND GRANULAR FILTER LAYOUT AT OUTLET APRONS ℄ CULVERTS STA. 204+05 AND 204+12.

SCALE 1"=40'

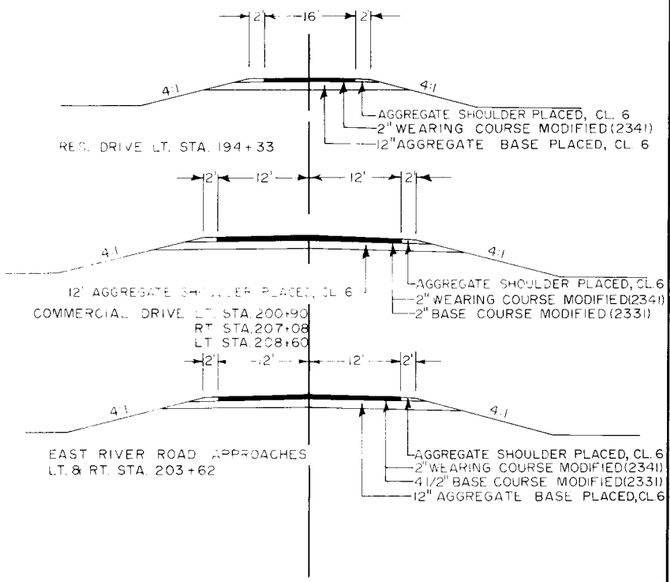




TYPICAL LAYOUT FOR POLYSTYRENE INSULATION

NO SCALE

LEFT STA. 204+30
LEFT STA. 204+70
RIGHT STA. 205+10



Fed. Proj. No.

LT. STA. 184+56 TO STA. 189+00
CL. 1 – GR. 1

℄ WEST BOUND LANE
P.I. 180+01.54
Δ LT. 2° 30'
D 1° 00'
T 125.02'
R 5729.578'
L 250.0'
E 1.36

P.C. 178+76.52 W.B.L.

W.B.L. P.T. 181+26.52" POT. 181+25.02

BEGIN: S.A.P. 55-622-09
STA. 180+30.0

RIVER

INPLACE GUARDRAIL AT N.E. CORNER BR. NO. 55519
TO BE REMOVED BY OTHERS.

100'

75'

2' AGG. SHLD.
8" BIT. SHLD.
12'
13'
6'
INPL. BR. NO. 55519
CONST. ℄
175
180
185
M.H. NO. 2
W.M. M.H. NO. 1
W.M. M.H. NO. 2
M.H. NO. 3
M.H. NO. 4
8" G.
8" H.P. GAS
12" DIP W.M. INPL.
(2) 6" D.I.P. SAN. SEWER INPL.
12" SAN. SEWER INPL.
CORPERATE LIMITS
ROCHESTER
BIKE PATH
TEMPORARY SLOPE EASEMENT
25'

P.T. 176+33.27+26 CONST. ℄

P.T. 177+52.05 E.B.L.

P.C. 187+69.83

CONST. GUARDRAIL AT BRIDGE NO. 55519
SEE PLAN SHEET NO. 4 FOR DETAIL.

ZUMBRO

WATERMAIN M.H. NO. 1
STA. 180+55 67' RT.
RING ELEV. 976.3
NO CHANGE.

M.H. NO. 3 SAN. SEWER MANHOLE INPL.
50' RT. STA. 181+15
RING ELEV. 972.0
NO CHANGE.

RT. STA. 184+56 TO 187+00
CL. 0 – GR. II TREES

M.H. NO. 4 SAN. SEWER MANHOLE INPL.
48' RT. STA. 188+66.78
RING ELEV. 975.0
NO CHANGE.

WATERMAIN M.H. NO. 2
STA. 185+05 45' RT.
RING ELEV. 976.3
NO CHANGE.

B.M. EL. 980.32'
BRASS PLUG S.E.
COR. BR. 55519

PROFILE GRADE

NO. FT. LT. CONST. ℄
NO. FT. RT. CONST. ℄

PROFILE ℄
75' LT
75' RT

+90 AHEAD END BRIDGE
+56 AHEAD END BRIDGE

P.V.C. + 08.88889
ELEV. 79.9889

P.I. + 58.88888
ELEV. 79.9889
500' V.C.
M = 1.25

-0.8%

INPL. BR. NO. 55519

990
980
970
960

SUBGRADE EXCAVATION TO BE CONSTUCTED TO DEPTHS AND IN LOCATIONS AS SHOWN IN THE CROSS SECTION.

| | | |

Fed. Proj. No.

C.B 1
CONST. C.B. 0.16' RT. STA. 190+01 CL. 34 — GR. 30
GRATE ELEV. 79.24
OUTLET ELEV. SO. 75.74
GRATE FRAME NO. 805
GRATE NO. 814
(44 LIN. FT. 12" R.C.PIPE CL. IV
AND 1-12" R.C.P. APRON OUTLET)

LT. STA. 189+00 TO 197+00

RES DR. LT. 194+33
INPL 18"x 32' CMP
W/APRONS
REMOVE 37 LIN. FT.
18" X 36' C.S. PIPE CULV.
2-18" G.S. PIPE APRONS

W.B. LANE
P.I. 192 + 94.65
Δ RT. 22° 08' 26"
D - 2.11583°
T - 529.82'
L - 1046.42'
E - 51.34'
R - 2707.96'

M.H. NO. 7 SAN. SEWER MANHOLE INPL.
APPROX. 100' LT. STA. 196 + 37 ±
RING ELEV. 984.2
NO CHANGE.

FIRE SHOP ENT. LT. 200 + 90
INPL 15"x 36' CMP
W/APRONS
REMOVE 40 LIN. FT.
18" X 48' C.S. PIPE CULV.
2-18" G.S. PIPE APRONS

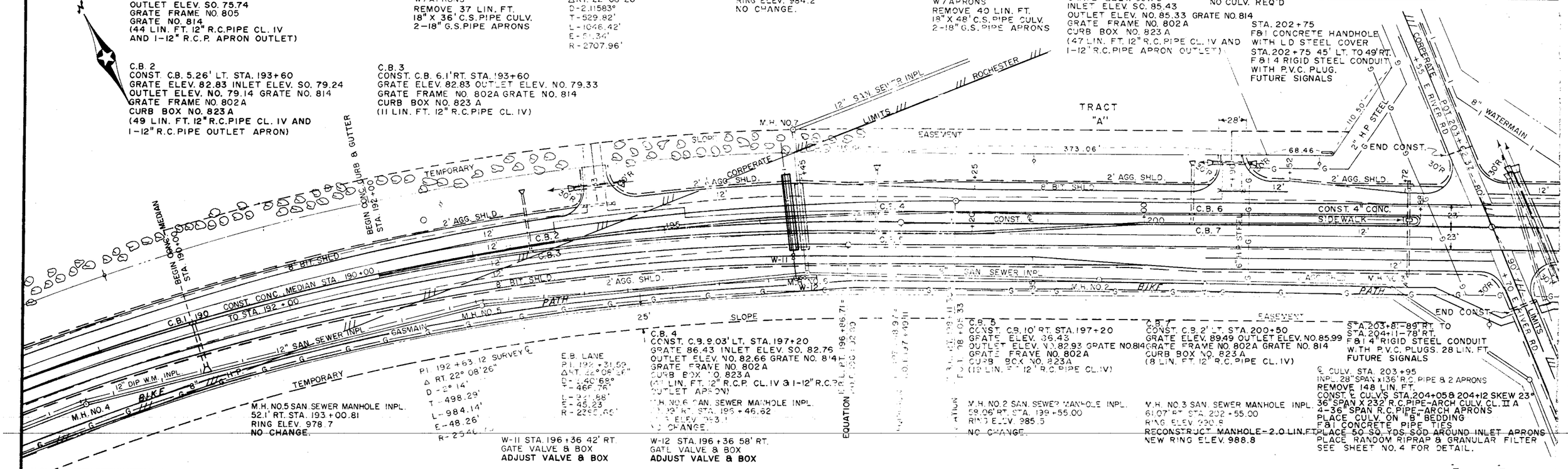
C.B. 6
CONST. C.B. 10' LT. STA. 200+50
GRATE ELEV. 89.73
INLET ELEV. SO. 85.43
OUTLET ELEV. NO. 85.33 GRATE NO. 814
GRATE FRAME NO. 802A
CURB BOX NO. 823 A
(47 LIN. FT. 12" R.C. PIPE CL. IV AND
1-12" R.C. PIPE APRON OUTLET)

E. RIVER RD. LT. 203+55
NO CULV. INPL.
NO CULV. REQ'D

STA. 202+75
F&I CONCRETE HANDHOLE
WITH L.D. STEEL COVER
STA. 202+75 45' LT. TO 49' RT.
F&I 4 RIGID STEEL CONDUIT
WITH P.V.C. PLUG.
FUTURE SIGNALS

C.B. 2
CONST. C.B. 5.26' LT. STA. 193+60
GRATE ELEV. 82.83 INLET ELEV. SO. 79.24
OUTLET ELEV. NO. 79.14 GRATE NO. 814
GRATE FRAME NO. 802A
CURB BOX NO. 823 A
(49 LIN. FT. 12" R.C.PIPE CL. IV AND
1-12" R.C.PIPE OUTLET APRON)

C.B. 3
CONST. C.B. 6.1' RT. STA. 193+60
GRATE ELEV. 82.83 OUTLET ELEV. NO. 79.33
GRATE FRAME NO. 802A GRATE NO. 814
CURB BOX NO. 823 A
(11 LIN. FT. 12" R.C.PIPE CL. IV)



B.M. EL. 994.97
SPK IN P.P. LT.
65' STA. 204+85

| | | |

Fed. Proj. No.

W7
STA. 205+10 50' LT.
INPL. VALVE & BOX
ADJUST VALVE BOX
TO ELEV. 94.0

FE LT. 207+52
INPL. 15"x 32' CMP.
REMOVE 32 LIN. FT.
NO F. ENT. REQ'D.

W9
STA. 205+05 55' LT.
INPL. GATE VALVE & BOX
ADJUST VALVE BOX TO ELEV. 92.6

W20
STA. 208+98
INPL. GATE VALVE & BOX 71' LT.
INPL. 6" HYDRANT 74' LT.
ADJUST GATE VALVE & BOX

CONST. APPROACH LT. 208+60
18" x 44' C.S. PIPE CULVERT
2-18" G.S. PIPE APRONS

C.B.10
CONST. C.B. 3.33' RT. STA. 208+40
GRATE ELEV. 97.58 OUTLET ELEV. NO. 94.08
GRATE FRAME NO. 802A GRATE NO. 814
CURB BOX NO. 823A
(8 LIN. FT. 12" R.C. PIPE CL. IV)

C.B.10
CONST. C.B. 4.67' LT. STA. 208+40
GRATE ELEV. 97.60 INLET ELEV. SO. 94.04
OUTLET ELEV. NO. 93.94 GRATE FRAME NO. 802A
GRATE NO. 814 CURB BOX NO. 823A
(57 LIN. FT. 12" R.C. PIPE CL. IV AND
1-12" R.C. PIPE APRON OUTLET)
SKEW OUTLET 20°

STA. 204+55-6' RT.
F & I CONCRETE HANDHOLE
WITH LD STEEL COVER
FUTURE SIGNALS

STA. 204+55 49' LT. TO 45' RT.
F & I 4" RIGID STEEL CONDUIT
WITH P.V.C. PLUGS.
FUTURE SIGNALS

W10
STA. 204+70
INPL. GATE VALVE & BOX 68' LT.
INPL. 6" HYDRANT 74' LT.
CONST. EARTH BERM 6' WIDE AT TOP
TOP BERM ELEV. 1093.0. F & I 24" X 22' C.S. PIPE CULV.
AND 2-24" G.S. PIPE APRONS.
F & I 8' X 8' POLYSTRENE INSULATION.

END: SAP 55-622-09
STA. 210+85.0

BLK.
LOT

EXISTING EASEMENT

COPPERFACE LIMITS

ROCHESTER

M.H. NO. 5

M.H. NO. 4

166.69' 8" WATERMAIN INPL.

POT. 203+62.37

F & I 50' X 8" POLYSTRENE INSULATION.

25' TEMPORARY SLOPE EASEMENT

W10 W9 W20 W5

12" WATERMAIN INPL.

POT. 218±22.86±
POT. 94+59.24

10" SAN

C.B.8 C.B.9 C.B.10 C.B.11

CONST. 4" CONC. SIDEWALK

2' AGG. SHLD.

BIKE PATH

F & I 24' X 8' POLYSTRENE INSULATION

SIGN

E. RIVER RD. RT. 203+70
NO CULV. INPL.
NO CULV. REQ'D.

12" WATERMAIN INPL. 110.53'

8" SAN

SEWER INPL.

FRONTAGE ROAD

SERVICE COURT N.E.

8" W.M. INPL.

T.H. 63

W6
STA. 205+07 45' RT.
INPL. VALVE & BOX 81' RT.
ADJUST VALVE BOX TO ELEV. 94.0.

APPROACH RT. 207+08
INPL. 18"x 58' S.C.P. & 2 APRONS
NO CHANGE

37TH STREET BUSINESS PARK

C.B.8
CONST. C.B. 2' RT. STA. 204+46
GRATE ELEV. 93.43 INLET ELEV. SO. 90.13
OUTLET ELEV. NO. 90.03 GRATE NO. 814
GRATE FRAME NO. 802A
CURB BOX NO. 823A
(59 LIN. FT. 12" R.C. PIPE CL. IV AND
1-12" R.C. PIPE APRON OUTLET)

C.B.9
CONST. C.B. 10' RT. STA. 204+46
GRATE ELEV. 93.69 OUTLET ELEV. NO. 90.19
GRATE FRAME NO. 802A GRATE NO. 814
CURB BOX NO. 823A
(8 LIN. FT. 12" R.C. PIPE CL. IV)

B.M. EL. 994.97
SPK. IN P.P. 65'
LT. 204+85'

B.M. EL. 1013.32
SQ. IN S.E. COR.
BOX CULV. 300' E
SIDE TH. 63
NORTH

NO. FT. LT. CONST. ℄

PROFILE GRADE

93.4 93.9+50 94.4 94.9+50 95.4 95.9+50 96.4 97.41 98.01+50 98.75 99.0+50

NO. FT. RT. CONST. ℄

1020
1010
1000
990

2' RT. STA. 204+46
10' RT. STA. 204+46

+1.0%

STORM SEWER
APRON OUTLET ELEV. 89.63

℄ CULV. STA. 204+05 AND 204+12
INLET ELEV. 88.4
OUTLET ELEV. 88.0

C.B.8
C.B.9

PVC. +83.59144
ELEV. 96.90144

4.67' LT. STA. 208+40
3.33' RT. STA. 208+40

C.B.10
C.B.11

APRON OUTLET ELEV. 93.20

+2.8%

SUBGRADE EXCAVATION TO BE CONSTRUCTED TO DEPTHS AND IN LOCATIONS AS SHOWN IN THE CROSS SECTIONS.

93.9 94.9 95.8 96.8 97.9 99.2 00.8 03.0 10.3 12.9 14.5 15.9 16.6 17.1

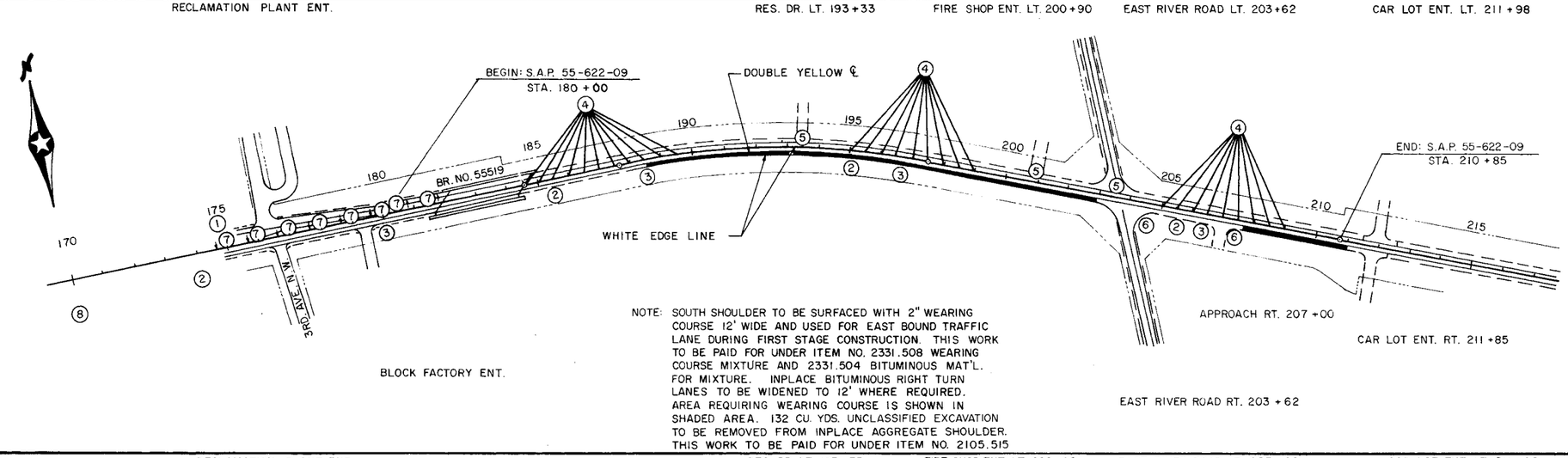
+70 94.7 +52 97.4 +33 16.3 +70 +98

204 205 206 207 208 209 210 211 212 213 214 215 216 217 218

OLMSTED COUNTY

S.A.P. 55-622-09 C.S.A.H. 22

Sheet No. 7 of 14 Sheets



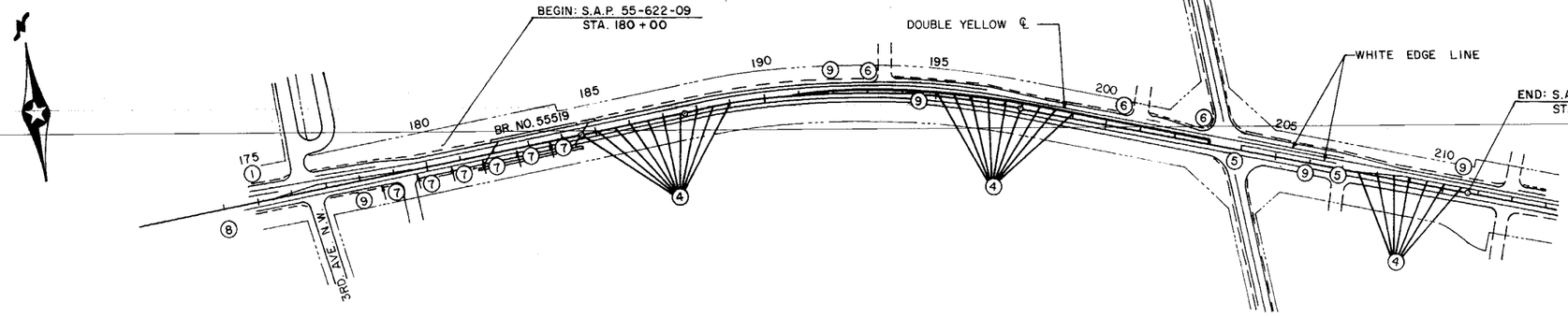
THE COUNTY IS TO FURNISH, INSTALL AND MAINTAIN W20-1 SIGNS FOR BEGINNING OF PROJECT.

NOTE: SOUTH SHOULDER TO BE SURFACED WITH 2" WEARING COURSE 12' WIDE AND USED FOR EAST BOUND TRAFFIC LANE DURING FIRST STAGE CONSTRUCTION. THIS WORK TO BE PAID FOR UNDER ITEM NO. 2331.508 WEARING COURSE MIXTURE AND 2331.504 BITUMINOUS MAT'L. FOR MIXTURE. INPLACE BITUMINOUS RIGHT TURN LANES TO BE WIDENED TO 12' WHERE REQUIRED. AREA REQUIRING WEARING COURSE IS SHOWN IN SHADED AREA. 132 CU. YDS. UNCLASSIFIED EXCAVATION TO BE REMOVED FROM INPLACE AGGREGATE SHOULDER. THIS WORK TO BE PAID FOR UNDER ITEM NO. 2105.515

NO SCALE.

TRAFFIC CONTROL LAYOUT

FIRST STAGE



THE COUNTY IS TO MAINTAIN W20-1 SIGNS FOR BEGINNING OF PROJECT.

NO SCALE.

TRAFFIC CONTROL LAYOUT

SECOND STAGE

SIGNING, BARICADES AND STRIPPING SUMMARY

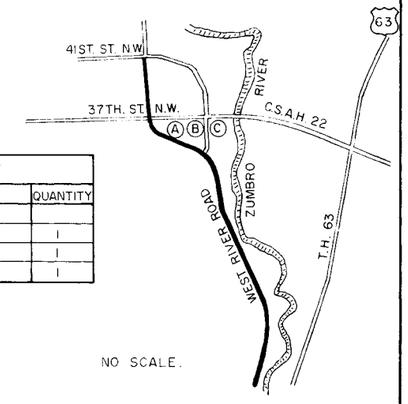
INDEX	SIGN	MESSAGE OR SYMBOL	SIZE	APPROXIMATE QUANTITY FIRST STAGE	APPROXIMATE QUANTITY SECOND STAGE
①	G20-2	END CONSTRUCTION	60" x 24"	1	1
②	R4-1	DO NOT PASS	24" x 30"	4	
③	W21-X1	NO SHOULDER	48" x 48"	4	
③	W13-1	XX M.P.H.	18" x 18"	4	
⑤⑥	R1-1	STOP	30" x 30"	5	5
⑦	W1-6	LARGE ARROW - SINGLE HEAD	48" x 24"	8	6
⑧	W5-1	ROAD NARROWS	36" x 36"	1	1
⑨	R4-1	DO NOT PASS	24" x 30"		5
⑨	W13-1	XX M.P.H.	18" x 18"		5
	TYPE	BARRICADE			
④	I	BARRICADE WITH STEADY BURN LIGHT		53	53
⑤	III	BARRICADE (5 REQ'D. EACH LOCATION x		3LOC'S)= 15	2LOC'S)=10
⑥	III	BARRICADE		2	3
⑦	III	BARRICADE		8	6
	III	BARRICADE (SEE NOTE 6)		6	6
		TEMPORARY STRIPPING			
		WHITE EDGE LINE REFLECTORIZED		5800 LIN. FT.	5800 LIN. FT.
		DOUBLE YELLOW ℄ REFLECTORIZED		2885 LIN. FT.	2885 LIN. FT.
		OBLITERATE TEMPORARY EDGE LINE		270 LIN. FT.	1310 LIN. FT.
		OBLITERATE TEMPORARY DOUBLE YELLOW ℄		270 LIN. FT.	2885 LIN. FT.

NOTES:

1. FLASHING LAMPS SHALL BE USED ON ALL ADVANCE WARNING SIGNS.
2. ADVISORY SPEED TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. TEMPORARY STRIPPING SHALL BE USED TO GUIDE TRAFFIC BETWEEN STA. 175+00 AND 210+85.
4. TEMPORARY STRIPPING NO LONGER APPLICABLE WHICH MIGHT CREATE CONFUSION FOR VEHICULE OPERATORS SHALL BE OBLITERATED BY SANDBLASTING AS SOON AS PRACTICABLE.
5. TYPE I BARRICADES WITH STEADY BURN LIGHTS TO BE PLACED AS SHOWN AT 50' INTERVALS FROM STA. 184+50 TO STA. 210+85.
6. THE CONTRACTOR SHALL FURNISH SIX (6) TYPE III BARRICADES WITH APPROPRIATE LAMPS TO BE USED AT THE DIRECTION OF THE ENGINEER.
7. ALL TRAFFIC CONTROL DEVICES SHOWN SHALL BE FURNISHED, INSTALLED, MAINTAINED, REMOVED BY, AND REMAIN THE PROPERTY OF THE CONTRACTOR.

ADVANCE SIGNING SUMMARY

	SIGN	MESSAGE	QUANTITY
Ⓐ	W20-1	ROAD CONSTRUCTION 1500 FT.	1
Ⓑ	W20-1	ROAD CONSTRUCTION 1000 FT.	1
Ⓒ	W20-1	ROAD CONSTRUCTION 500 FT.	1



NO SCALE.

ADVANCE SIGNING LAYOUT