MINNESOTA DEPARTMENT OF TRANSPORTATION

THE COUNTY OF OLMSTED

CONSTRUCTION PLAN FOR GRADING, AGGREGATE BASE & BRIDGE NO. 55539

LOCATED ON CR. 120 **BETWEEN** T.H. 63 **AND** C.S.A.H. 20 **(GEOGRAPHIC DESCRIPTION)**

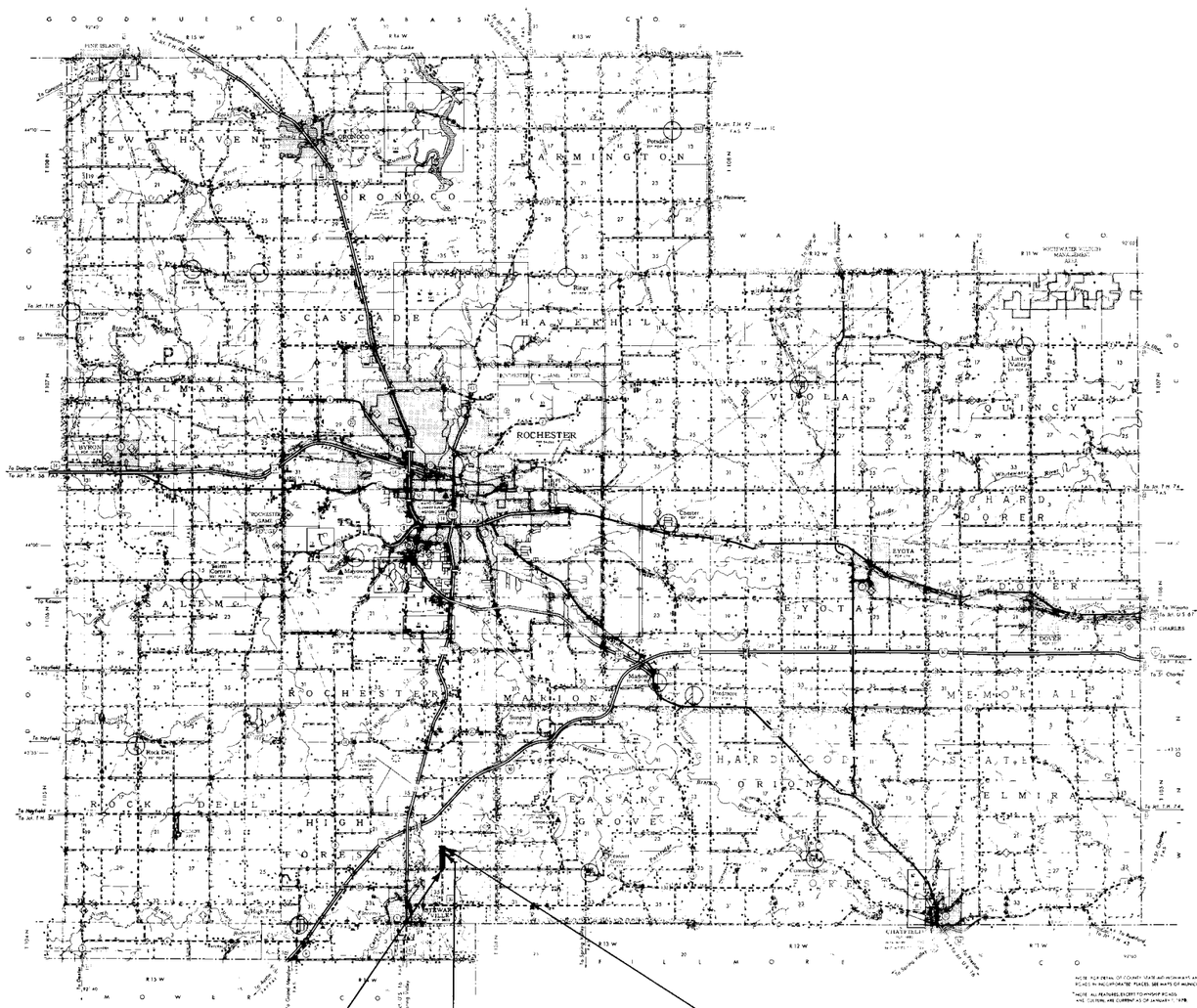
FROM CENTER SEC. 35 T105N R14W **TO** 280' No. N1/4 COR. SEC. 35 T105N R14W **(LEGAL DESCRIPTION)**

STATE PROJ. NO. 55-598-07

GROSS LENGTH	225.66	FEET 0.043	MILES
BRIDGES-LENGTH	225.66	FEET 0.043	MILES
EXCEPTIONS-LENGTH		FEET	MILES
NET LENGTH	225.66	FEET 0.043	MILES

~~**STATE PROJ. NO.**~~ C.P. 55-600-03

GROSS LENGTH	2929.27	FEET 0.555	MILES
BRIDGES-LENGTH	225.66	FEET 0.043	MILES
EXCEPTIONS-LENGTH		FEET	MILES
NET LENGTH	2703.61	FEET 0.512	MILES



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

SCALES

PLAN	100 FEET
PROFILE	100 FEET HORZ. & 10 FEET VERT.
INDEX MAP	10,560 FEET
CROSS SECTIONS	10 FEET

STATE AID TITLE SHEET 0.79 ALBINSON, APLS 19490

MINN. PROJ. NO. BR OS 9055 (7)

SPECIFICATIONS REFERENCE

The 1978 Edition of the Minnesota Department of Transportation "Standard Specifications For Highway Construction" Shall Govern.

INDEX

SHEET NO. 1 TITLE SHEET & LAYOUT MAP.

" NO. 2 ESTIMATE OF QUANTITIES & TYPICAL SECTIONS.

" NO. 3 & 4 PLAN & PROFILE SHEETS.

" NO. 5 TO 9 CROSS SECTIONS.

" NO. 2 TO 21 BRIDGE NO. 55539

DESIGN DESIGNATION

R —

ADT (Current Year) = 72

ADT (Future Year) = 115

DHV (Design Hr. Vol.) =

D (Directional Distr.) = %

T (Heavy Commercial) = 15 %

SOIL FACTOR 130

ΣN18 (20) —

Design Speed 50 MPH

Based on STOPPING Sight Distance

Height of eye 3.75' Height of object 0.5'

Design Speed not achieved at:

STA. TO STA. MPH

STA. TO STA. MPH

STA. TO STA. MPH

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 12/2/80 REG. NO. 10219 ENGR. J.K. Dolan

COUNTY Olmsted

Recommended for Approval [signature] 12-4 1980
DISTRICT STATE AID ENGINEER

Recommended for Approval Delvert D. Ofstedal 5-10 1982
STATE AID PLANS AND SPECS ENGINEER

Approved 5/10 1982 [signature]
STATE AID ENGINEER

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED

DIVISION ADMINISTRATOR DATE

~~**STATE AID PROJ. NO.**~~ C.P. 55-600-03

~~**STATE PROJ. NO.**~~ S.P. 55-598-07 OLMSTED COUNTY **SHEET NO.** 1 **OF** 9 **SHEETS**

AS BUILT PLANS

ESTIMATED QUANTITIES

	SPECIFICATION NO.	ITEM	UNIT	MUNICIPAL	RURAL	TOTAL ESTIMATED QUANTITIES
	2101.502	CLEARING	TREE		19	19
	2101.507	GRUBBING	TREE		19	19
	2104.501	REMOVE PIPE CULVERT	LIN. FOOT		72	72
	2105.501	COMMON EXCAVATION	CU. YD.		5523	5523
	2105.507	SUBGRADE EXCAVATION	CU. YD.		1759	1759
	2105.523	COMMON BORROW (CV)	CU. YD.		3491	3491
①	2211.502	AGGREGATE BASE, CLASS 2	CU. YD.		2011	2011
	2442.501	REMOVE OLD BRIDGE	LUMP SUM		1	1
	2501.511	18" C.S. PIPE CULVERT	LIN. FOOT		120	120
	2501.511	24" C.S. PIPE CULVERT	LIN. FOOT		38	38
	2501.515	18" G.S. PIPE APRON	EACH		8	8
	2501.515	24" G.S. PIPE APRON	EACH		2	2
	2575.501	ROADSIDE SEEDING	ACRE		(P) 5	(P) 5
	2575.502	SEED MIXTURE 5	POUND		250	250
	2575.511	MULCH MAT'L. TYPE 1	TON		10	10
	2575.519	DISC ANCHORING	ACRE		(P) 5	(P) 5
②	2575.531	COMMERCIAL FERT. ANALYSIS 12-12-12	TON		0.5	0.5
	2105.511	COMMON CHANNEL EXCAVATION	CU. YD.		4000	4000

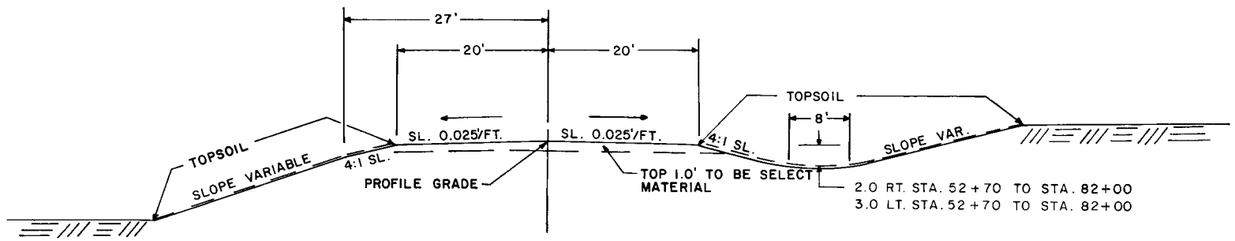
(P) PLAN QUANTITY
① ITEM NO. 2211.502 AGGREGATE BASE CLASS INCLUDES 160 CU. YDS. FOR 8 APPROACHES
② 200 POUNDS PER ACRE

STANDARD PLATES

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

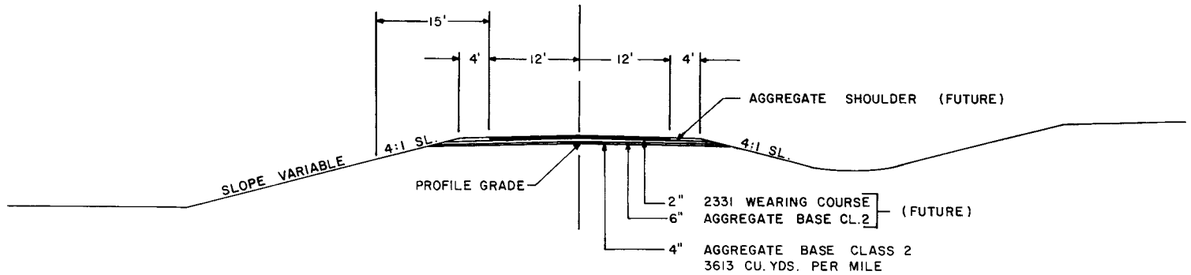
PLATE NO		DESCRIPTION
0003	A	SPECIFICATION REFERENCE TO STANDARD PLATES.
3040	F	CORRUGATED METAL PIPE CULVERT.
3123	H	METAL APRON FOR C.M. PIPE.
3124	A	METAL APRON CONNECTION.
3221	A	CORRUGATED STEEL PIPE COUPLING BAND.
8000	H	STANDARD BARRICADES.
9000	B	APPROACHES AND ENTRANCES.

TYPICAL GRADING SECTION



STA. 52+70.73 TO STA. 82+00

TYPICAL SURFACE SECTION



STA. 52+70.73 TO STA. 82+00

NOTE: MATERIAL FROM THE UPPER 1.0' OF THE NATURAL TOPSOIL SHALL NOT BE USED IN THE UPPER 1.0' OF THE ROADBED. PART OF THIS MATERIAL SHALL BE UNIFORMLY SPREAD ON SLOPES AND DITCH BOTTOMS TO A DEPTH OF 3". NO PAYMENT IN ADDITION TO THE CONTRACT PRICE FOR COMMON EXCAVATION WILL BE MADE FOR SPREADING THE TOPSOIL AS ABOVE PROVIDED, NOR WILL ANY UNDERCUTTING MADE IN EXCAVATION PRIOR TO PLACING THE TOPSOIL BE MEASURED FOR PAYMENT.

NOTE: CORRUGATED STEEL AND REINFORCED CONCRETE PIPE CULVERT EXCAVATION WILL BE CONSIDERED INCIDENTAL, AND WILL BE INCLUDED FOR PAYMENT UNDER UNIT PRICE FOR "PIPE CULVERT."

NOTE: SUBGRADE TREATMENT;
EXCAVATE 1.0' BELOW PROFILE GRADE FOR COMPACTION, AS SHOWN ON THE PLAN AND PROFILE SHEETS. EXCAVATION HAS BEEN COMPUTED AND IS LISTED AS SUBGRADE EXCAVATION. BACKFILL WITH SELECT MATERIAL FROM R.O.W. TAPERS SHALL BE 50:1 IN ALL CASES.

NOTE: ALL DIMENSIONS AND SLOPES SHOWN ON TYPICAL SECTIONS ARE APPROXIMATE.

AS BUILT PLANS

ALBINSON, INC. MINNEAPOLIS 55405

VERTICAL CONTROL

ELEVATIONS SHOWN IN THIS PLAN ARE BASED ON MEAN SEA LEVEL DATUM, 1929 ADJUSTMENT, AND TIED TO M.H.D. B.M. 5509-F. STAMPED 5509-F. 1970 ELEVATION 1234.161

Fed. Proj. No.

F.E. LT. STA. 62+93
INPL. 15"x 24' CMP.
REMOVE

18" x 28' C.S. PIPE CULV.
2-18" G.S. PIPE APRONS

F.E. LT. STA. 72+31
NO CULV. INPL.
MOVE TO STA. 67

24" x 38' C.S. PIPE CULV.
2-24" G.S. PIPE APRONS

F.E. LT. STA. 78+91
INPL. 15"x 20' CMP.
REMOVE

18" x 28' C.S. PIPE CULV.
2-18" G.S. PIPE APRONS

BRIDGE NO. 144 STA. 77+50
INPL. 44' I BEAM SPAN & 67' LOW TRUSS. CONCRETE DECK LIMESTONE AND CONCRETE PIER AND ABUTMENTS.
REMOVE OLD BRIDGE

M. HOME

66' TWP. RD.

+77 CR. 120

+15 +95 +28 +08 +93 +31 +75 +91 +41 +46

P.O.T. 67+00

SOUTH END BR. NO. 55539 STA. 76+25.63

NORTH END BR. NO. 55539 STA. 78+51.21

RIVER — JOH BRANCH — NORTH

HO. BURNED DOWN 4-83

SILO

P.I. 79+20.00 RT. 00°15'30"

P.I. 52+70.73 INPL. C.I.M.

TWP. RD. +77

BEGIN: C.P. 55-600-03
STA. 52+70.73

QUARRY ENT. RT. 64+27
NO CULV. INPL.

18" x 32' C.S. PIPE CULV.
2-18" G.S. PIPE APRONS

F.E. RT. 72+21
NO CULV. INPL.
NO CULV. REQ'D.

RES. DR. RT. 79+41
INPL. 15"x28' CMP.
REMOVE

18" x 32' C.S. PIPE CULV.
2-18" G.S. PIPE APRONS

B.M. PLUG S.E. COR. BR.
EL. 1186.32

T. 14 W. R. 13 W. IN GOOD CENTER SE 26 NOLLS

CL. 15 TREES — GR. 15 TREES

CL. 4 TREES
GR. 4 TREES

B.M. ELEV. 1201.95
SPK. P. POLE 33' RT.
STA. 53+05

B.M. ELEV. 1179.17
SPK. P. POLE 31' RT.
STA. 63+38

B.M. ELEV. 1176.87
SPK. P. POLE 29' RT.
STA. 69+34

B.M. ELEV. 1189.67
SPK. P. POLE 27' RT.
STA. 79+20

-0.3%

P.I. +00
ELEV. 03.18
420' V.C.
M = 1.68

P.V.T. 10.0
ELEV. 95.85

-3.5%

P.V.C. +00.00 ELEV.

P.I. +00
ELEV. 82.18
400' V.C.
M = 1.55

P.V.T. +00 ELEV.

-0.4%

P.V.C. +00 ELEV.

P.I. +00
ELEV. 78.18
600' V.C.
M = 1.05

P.V.T. +00 ELEV.

+1.0%

SOUTH END BR. NO. 55539 +25.63 ELEV. 86.44
P.V.C. + 50 ELEV. 85.68
(SUBGRADE)

BR. NO. 55539

NORTH END BR. NO 55539 +51.21
ELEV. 90.56

+4.7%

P.V.T. +50 ELEV. 97.08

P.I. +50
ELEV. 87.68
400' V.C.
M = 1.85

254 CU. YDS. TOPSOIL
1682 CU. YDS. COMMON EXC.
EMBANKMENT 1364 CU. YDS.

75' LT.
75' RT.

SUBGRADE TREATMENT
EXCAVATE 1.0' BELOW PROFILE GRADE
FROM STA. 52+90 TO STA. 54+00 AND
FROM STA. 57+00 TO STA. 69+00

COMMON EXC.	3587	1190 CU. YDS. TOPSOIL 2397 CU. YDS. COMMON EXC.
SUBGRADE EXC.	1659 CU. YDS.	
COMMON BORROW	3491 CU. YDS. (C.V.)	
EMBANKMENT	10,934 CU. YDS.	

COMMON EXC. 1936 CU. YDS.
SUBGRADE EXC. 100 CU. YDS.

1210 1200 1190 1180 1170 1160

55 60 65 70 75 80

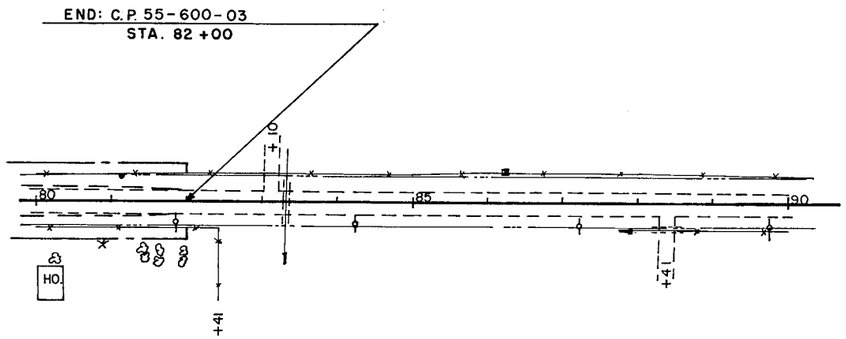
~~State Proj. No.~~ C.P. 55-600-03 OLMSTED COUNTY **Sheet No. 3 of 9 Sheets**

AS BUILT PLANS

F.E. LT. 83+10
NO CULV. INPL.

NO CHANGE

Fed. Proj. No.



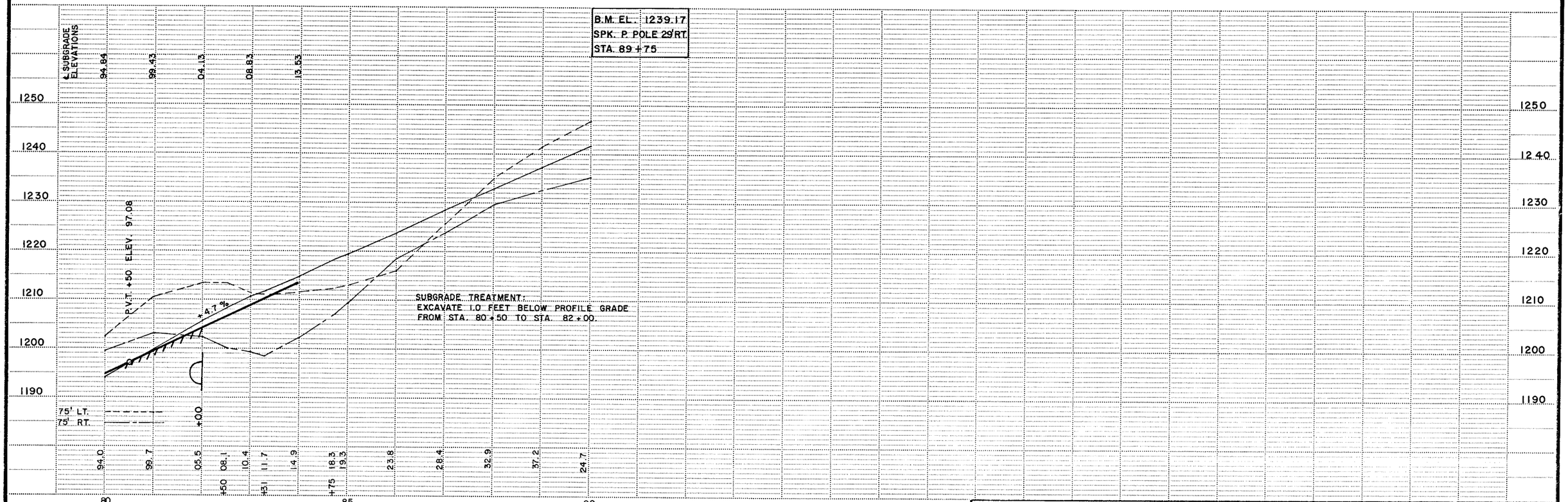
℄ CULV. 83+31
INPL. 24"x 58' CMP.
2-24" CMP. APRONS.

NO CHANGE

F.E. RT. 88+41
INPL. 15"x 30' CMP

NO CHANGE

B.M. EL. 1239.17
SPK. P. POLE 29' RT.
STA. 89+75



State Proj. No. C.P. 55-600-03 OLMSTED COUNTY Sheet No. 4 of 9 Sheets

AS BUILT PLANS