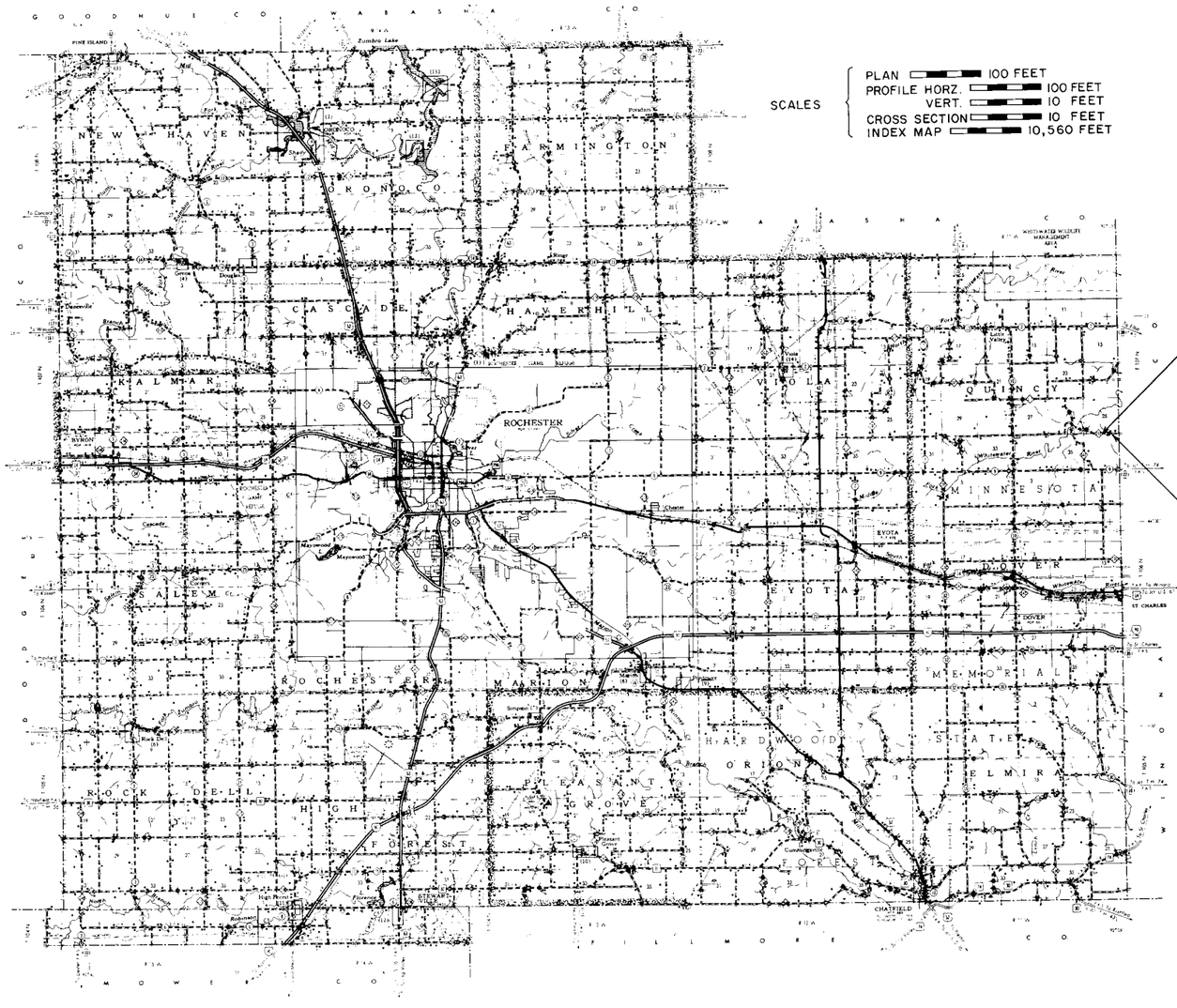
FORM 100-A '65

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 (NAME)
DRY RUN
DRAINAGE DITCH (SIZE)
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 C.B.
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 (G)
SAND PIT (S)
BORROW PIT (B)
ROCK QUARRY (Q)

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 T-BUR
BURIED ELECTRIC CABLE P-BUR
AERIAL TELEPHONE CABLE T-AE
SEWER, (SANITARY OR STORM)
SEWER MANHOLE



Fed. Proj. No.

STATE OF MINNESOTA

DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PLAN FOR GRADING, CULVERT & AGG. BASE

COUNTY **AID HIGHWAY NO.** 152

BETWEEN CR. 107 **AND** EAST COUNTY LINE

From 116.65' WEST OF N. 1/4 CORNER SEC. 36 T107N-R11W
(Give proper reference to Sections, Township and Range)

To 983.35' EAST OF N. 1/4 CORNER SEC. 36 T107N-R11W

GROSS LENGTH	1100.00	FEET	0.208 MILES
BRIDGES-LENGTH		FEET	MILES
EXCEPTIONS-LENGTH		FEET	MILES
NET LENGTH	1100.00	FEET	0.208 MILES

INDEX OF SHEETS

Sheet No 1 Title Sheet & Layout Map
" No 2 Est Quantities & Typical Sec
" No 3 Plan & Profile
" No 4 To 5 Cross Sections

BEGIN: CP C152-77-9
STA. 45+00

END: CP C152-77-9
STA. 56+00

DESIGN SPEED 25 **M. P. H.**

PROJECTED A. D. T. 181

_____ **TON DESIGN**

SOIL FACTOR 130

ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

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.

J K Nolan
COUNTY ENGINEER DATE 5-24-77

Olmsted COUNTY REG. NO. 10219

RECOMMENDED FOR APPROVAL _____ 19____
DISTRICT STATE AID ENGINEER

RECOMMENDED FOR APPROVAL _____ 19____

APPROVED _____ 19____
STATE AID ENGINEER

— SPECIFICATIONS —

MINNESOTA HIGHWAY DEPARTMENT
STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION DATED JANUARY 1, 1972,
AS AMENDED BY SUPPLEMENTAL SPECIFICATIONS DATED APRIL 1, 1976 , SHALL GOVERN.

Minn. Project No. _____ S.A.P. _____
State Project No. _____

OLMSTED County, Minnesota. County Proj. No. C152-77-9 **Plan No.** _____ **Sheet 1 of** 5 **Sheets**

ESTIMATED QUANTITIES

	SPECIFICATION NO.	ITEM	UNIT	MUNICIPAL	RURAL	TOTAL ESTIMATED QUANTITIES
	2101.502	CLEARING	TREE		11	11
	2101.507	GRUBBING	TREE		11	11
	2104.501	REMOVE PIPE CULVERT	LIN. FT.		24	24
	2105.501	COMMON EXCAVATION	CU. YD.		3911	3911
	2105.507	SUBGRADE EXCAVATION	CU. YD.		637	637
①	2442.501	REMOVE OLD BRIDGE	LUMP SUM		1	1
	2501.511	18" C.S. PIPE CULVERT	LIN. FT.		84	84
	2501.515	18" G.S. PIPE APRONS	EACH		6	6
	2501.521	154" SPAN R.C.P. - ARCH CULV. CLASS IV A	LIN. FT.		45	45
	2501.525	154" SPAN R.C.P. - ARCH APRONS	EACH		2	2
	2511.501	RANDOM RIP - RAP CLASS "A"	CU. YD.		30	30

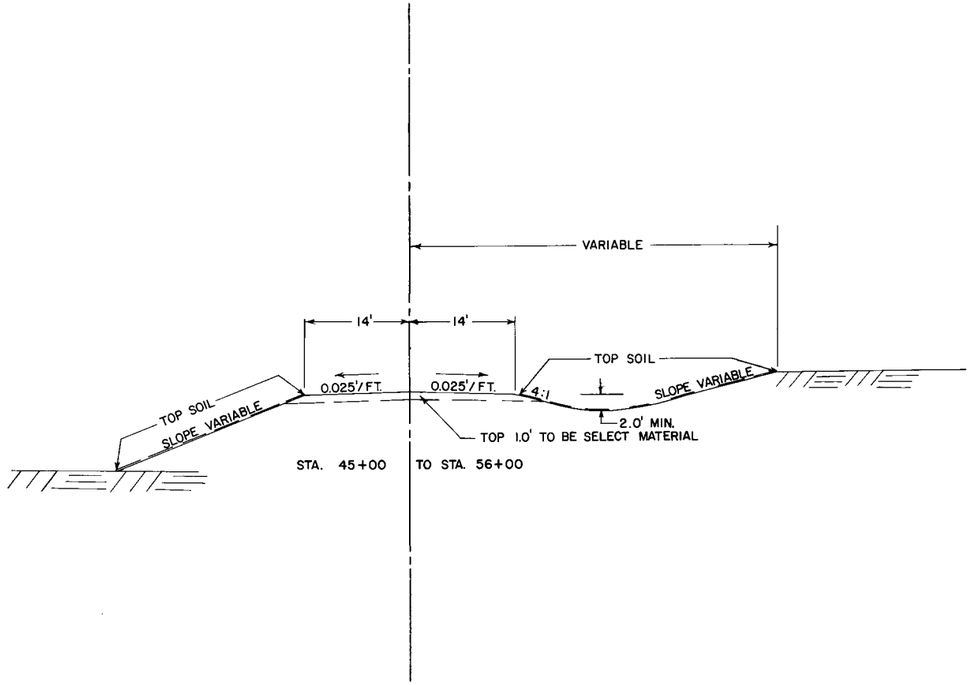
① NO MATERIAL FROM THE OLD STRUCTURE WILL BE REQUIRED TO BE SALVAGED FOR THE COUNTY.

STANDARD PLATES

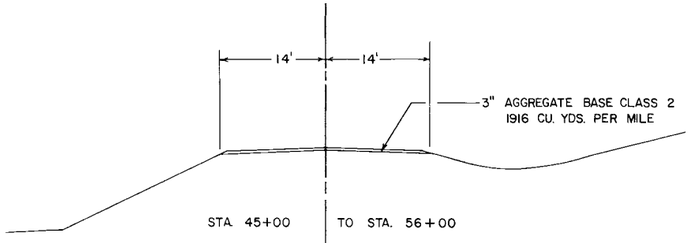
FEDERAL HIGHWAY ADMINISTRATION THE FOLLOWING STANDARD PLATES, APPROVED BY THE DEPARTMENT OF TRANSPORTATION SHALL APPLY ON THIS PROJECT.

PLATE NO	DESCRIPTION
0002 A	SPECIFICATION REFERENCE TO STANDARD PLATES
3014 G	REINFORCED CONCRETE PIPE ARCH DETAIL
3040 D	CORRUGATED METAL PIPE
3114 E	SECTIONAL CONC. APRON FOR REINF. CONC. PIPE - ARCH
3123 G	METAL APRON FOR C.M. PIPE
3133 A	RIP RAP AT R.C.P. OUTLETS
3145 A	CONCRETE PIPE JOINT TIES. U BOLT TIE
8000 F	STANDARD BARRICADES
9000 B	APPROACHES AND ENTRANCES.

TYPICAL GRADING SECTIONS



STA. 45+00 TO STA. 56+00



THIS WORK TO BE DONE BY COUNTY FORCES.

STA. 45+00 TO STA. 56+00

SPECIAL DETAILS

Note: Material from the upper 1.0' of the natural topsoil shall not be used in the upper 1.0' of the roadway. 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 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: Place Sectional Concrete Pipe on Class "B" and Class "C" Bedding. All bedding to be considered as incidental and no direct compensation shall be made therefor.

Note: All dimensions and slopes shown on typical sections are approximate.

Minn. Proj. No. _____ S.A.P. _____ State Project No. _____

ALBINSON, INC. MINNEAPOLIS

Fed. Proj. No.

F.E. Lt. 46+20
No Culv. Inpl.
NO CULV. REQ'D.

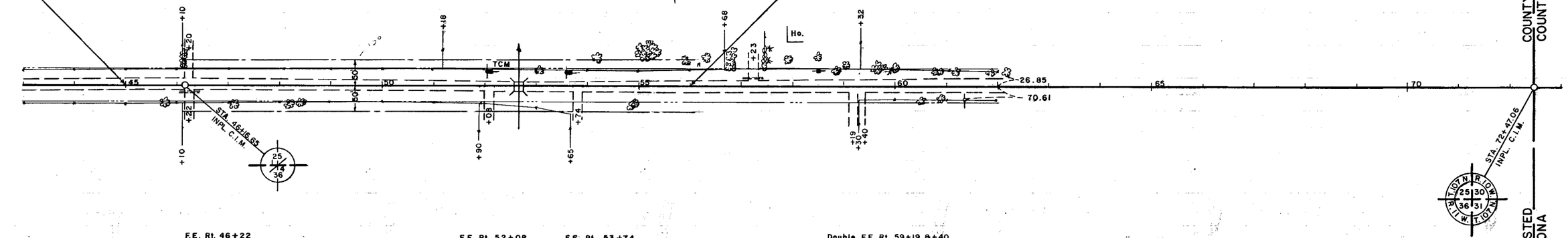
L Culv. Sta. 52+64
Inpl. 14.3' Span x 9' High.
I Beam Span
Br. No. 6277
REMOVE BRIDGE

154" SPAN x 45' R.C.P.-ARCH CULV. CLASS III A
2-154" SPAN R.C.P.-ARCH APRONS
PLACE CULV. ON "B" BEDDING
F. & I. APPROVED JOINT TIES
RANDOM RIP RAP CLASS "A" 30 CU. YDS.
12" DEPTH

Fm. E. Lt. 57+23
Inpl. 15"x 20' CMP.
NO CHANGE

BEGIN: C.P. C152-77-9
STA. 45+00

END: CP C152-77-9
STA. 56+00



F.E. Rt. 46+22
Inpl. 15"x24' CMP.
plugged.
REMOVE
18" x 28' C.S. PIPE CULV.
2 - 18" G.S. PIPE APRONS

F.E. Rt. 52+08
No Culv. Inpl.

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

F.E. Rt. 53+74
No Culv. Inpl.

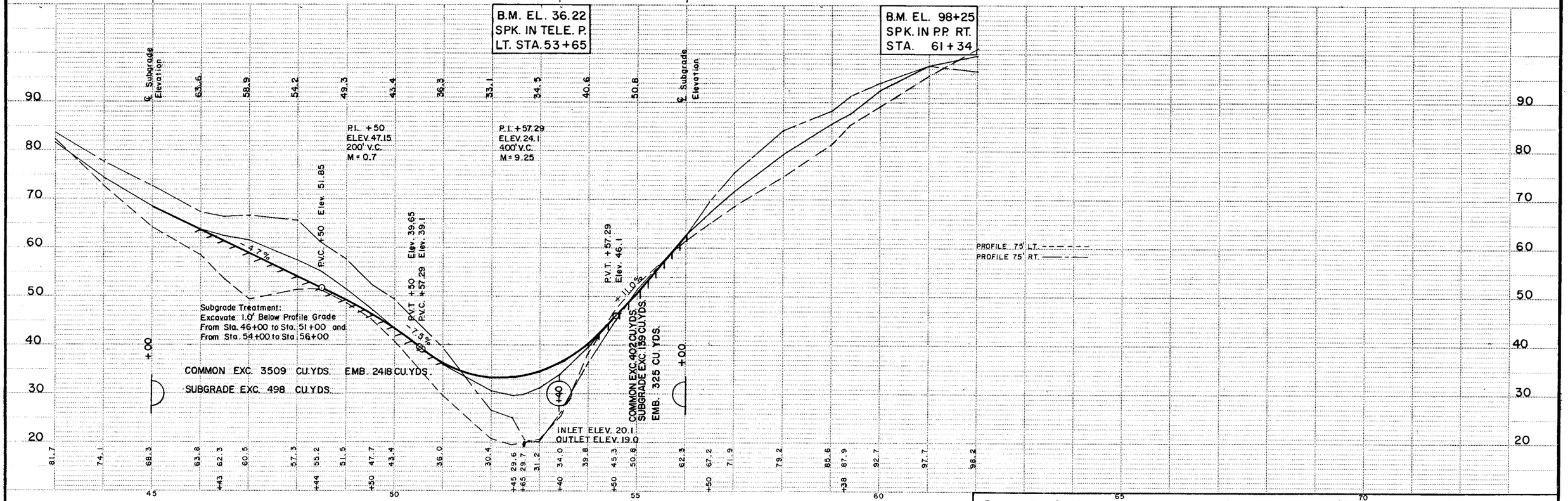
18" C.S. PIPE CULV.
2 - 18" G.S. PIPE APRONS

Double F.E. Rt. 59+19 & +40
No Culvs. Inpl.
NO CHANGE

CL. 6 — GR. 6 — CL. 5 — GR. 5

B.M. EL. 36.22
SPK. IN TELE. P.
LT. STA. 53+65

B.M. EL. 98+25
SPK. IN P.P. RT.
STA. 61+34



OLMSTED COUNTY, MINN.

State Proj. No. CP C152-77-9 CR. 152 **Sheet No.** 3 **of** 5 **Sheets**