FORM 129A REV. '54

CONVENTIONAL SIGNS

STATE LINE
COUNTY LINE
TOWNSHIP OR RANGE LINE
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
RIGHT-OF-WAY LINE
PRESENT ROAD R/W LINE
LIMITED ACCESS
PROPERTY LINE (Except Land Lines)
VACATED PLATTED PROPERTY
CORPORATE OR CITY LIMITS
TRUNK HIGHWAY CENTER LINE
RETAINING WALL
STEAM RAILROAD
ELECTRIC RAILROAD
RAILROAD RIGHT-OF-WAY LINE
CREEK
RAPIDS OR WATERFALL
DRY RUN
DRAINAGE DITCH
HIGH TENSION LINE
POWER POLE LINE
TELEPHONE OR TELEGRAPH LINE
TELEPHONE CONDUIT
GUARD RAIL
WIRE FENCE
RAILROAD SNOW FENCE
BOARD OR HIGHWAY SNOW FENCE
STONE WALL OR FENCE
GAS MAIN
WATER PIPE
SEWER PIPE
DRAIN TILE
GRAVEL PIT
SAND PIT
CLAY PIT
ROCK QUARRY
SPRINGS
MARSH

TIMBER
BRUSH
ORCHARD
ROCK LEDGE
SAND
EDGE OF CUT
TOE OF EMBANKMENT
CATCH BASIN
MANHOLE
DROP INLET
FIRE HYDRANT
ARC LAMP
OTHER LAMPS (State Kind)
RAILROAD CROSSING SIGN
RAILROAD CROSSING BELL
ELECTRIC WARNING SIGN
CROSSING GATE
CATTLE GUARD
OVERHEAD (Highway Over)
UNDERPASS (Highway Under)
ABUTMENT, WALL & PIER
BRIDGE
CULVERT
BUILDING (One Story Frame)
(C-CONCRETE S-STONE T-TILE B-BRICK ST-STUCCO)
HEDGE
IRON PIPE
STONE MONUMENT
WOOD STAKE OR HUB
MEANDER CORNER

T.106N. R.14W. / T.106N. R.13W. — 35 36 2 1
CENTER SECTION 35 T.106N. R.24W.
12 13

NOTE: SECTION NUMBERS READ FROM THE SOUTH

STATE OF MINNESOTA

DEPARTMENT OF HIGHWAYS

CONSTRUCTION PLAN FOR GRADE AND SURFACE

State Aid Road No. "C"

BETWEEN SALEM CORNERS AND TRUNK HIGHWAY No. 14

From The Center of Section 15 T106N-R15W. To 0.6' North of the North ¼ Corner Section 3 T106N-R15W.
Give proper reference to Sections, Township and Range

GROSS LENGTH 13,128.2 FEET 2.486 MILES
BRIDGES LENGTH FEET MILES
EXCEPTIONS LENGTH FEET MILES
NET LENGTH 13,128.2 FEET 2.486 MILES

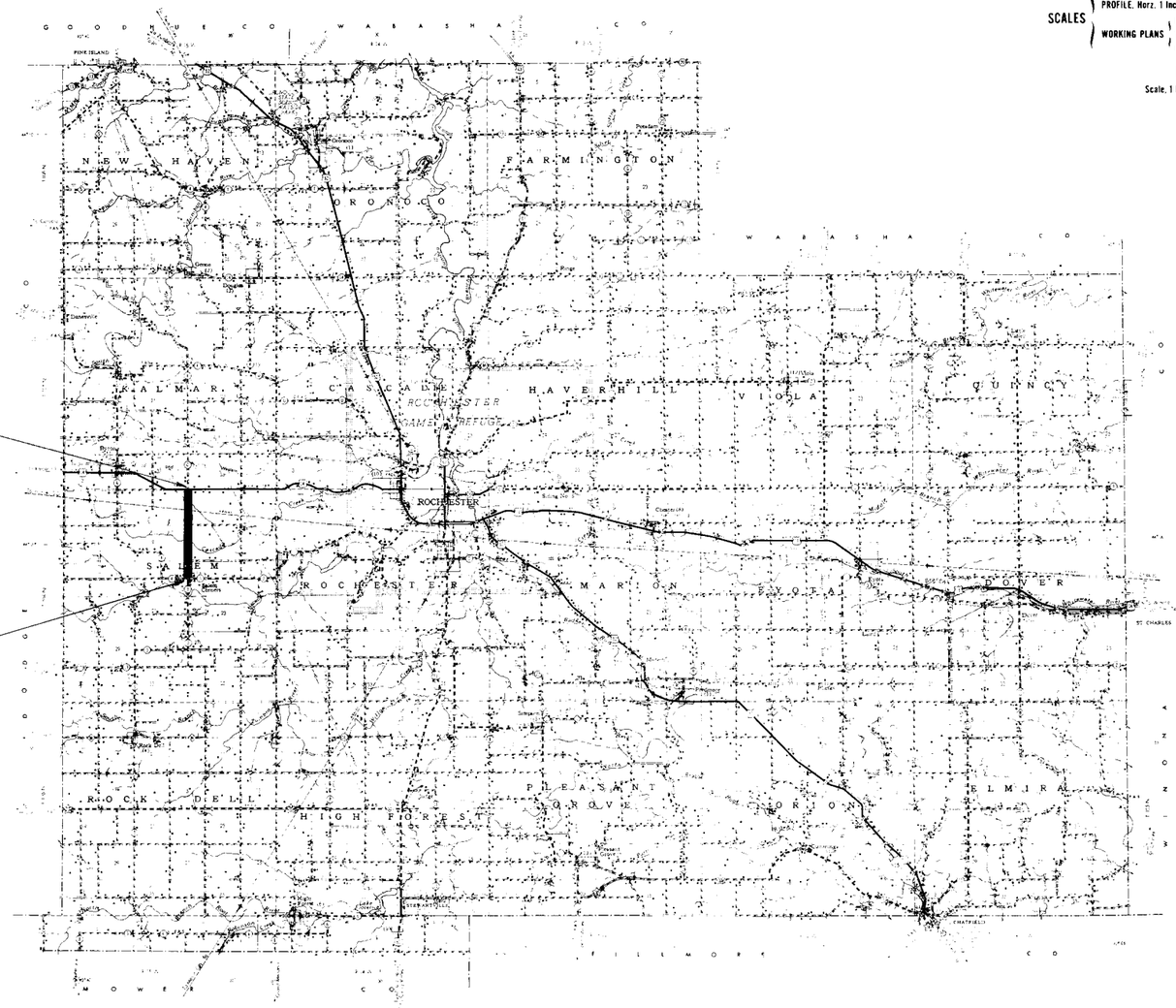
SCALES
PLAN, 1 Inch=100 Feet
PROFILE, Horz. 1 Inch=100 Feet, Vert. 1 Inch=10 Feet
WORKING PLANS: Horz. 1 Inch=100 Feet; Vert. 1 Inch=10 Feet; Cross-Section 1 Inch=10 Feet

LAYOUT
Scale, 1 Inch=10,560 Feet

MINN. PROJ.

INDEX OF SHEETS

Sheet No. 1. Title Sheet & Layout Map
" No. 2. Est. Quantities & Typical Sec.
" No. 3. To 7 Plan & Profile
" No. 8 To 16 Cross Sections



End C.P. C-CA-56
Station 131+28.2

Begin C.P. C-CA-56
Station 0+00

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

COUNTY ENGINEER DATE

OLMSTED COUNTY REG. NO. 1207

RECOMMENDED FOR APPROVAL 19
DISTRICT ENGINEER

RECOMMENDED FOR APPROVAL 19

APPROVED 19
ENGINEER OF COUNTY DIVISION

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED

DISTRICT ENGINEER DATE

SPECIFICATIONS

THE "SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED JULY 1, 1947 AND SUBMITTED FOR APPROVAL BY THE DIVISION ENGINEER OF THE BUREAU OF PUBLIC ROADS ON OCTOBER 15, 1947, AS MODIFIED BY "SUPPLEMENT 1" THERETO DATED APRIL 15, 1953 AND SUBMITTED FOR APPROVAL BY THE DIVISION ENGINEER OF THE BUREAU OF PUBLIC ROADS ON MARCH 25, 1953, SHALL GOVERN.

Minn. Proj. No. State Proj. No. 55-

OLMSTED County, Minnesota County Proj. No. C-CA-56 Plan No. Sheet No. 1 of 16 Sheets

H. A. ROGERS CO. Minneapolis

FORM 129 C - # 1 Rev '46

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.		FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5N	MINN.					

ESTIMATED QUANTITIES

SPECIFICATION NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES
2101.502	Clearing	Tree	117
2101.507	Grubbing	Tree	117
2104.501	Remove Portable Culverts	Linear Foot	510
2105.501	Excavation Class A	Cubic Yard	47,468
2501.511-18	F. and I. C.M.P. Culv. 18"	Linear Foot	506
2501.511-24	F. and I. C.M.P. Culv. 24"	Linear Foot	90
2501.521-24	F. and I. S.C.P. Culv. 24"	Linear Foot	38
2501.521-30	F. and I. S.C.P. Culv. 30"	Linear Foot	42
2515.531-18	F. and I. Aprons for C.M.P. 18"	Apron	30
2515.531-24	F. and I. Aprons for C.M.P. 24"	Apron	4
2515.541-24	F. and I. Aprons for S.C.P. 24"	Apron	2
2515.541-30	F. and I. Aprons for S.C.P. 30"	Apron	2
2251.527	Gravel Wearing Course Inplace	Cubic Yard (V.M.)	5,205

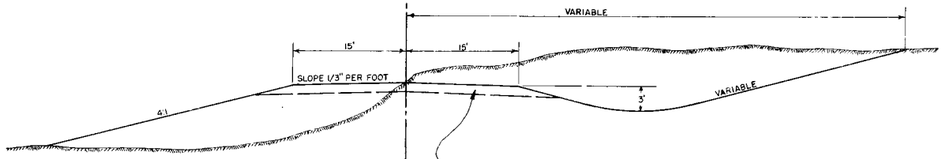
Item 2251.527 includes 270 Cubic Yards for Approaches and Entrances.

STANDARD DETAIL PLATES

THE FOLLOWING STANDARD DETAIL PLATES, APPROVED BY THE BUREAU OF PUBLIC ROADS, SHALL APPLY ON THIS PROJECT.

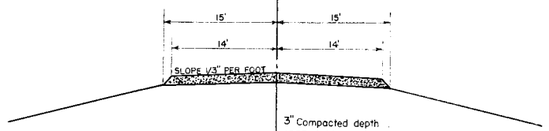
PLATE NO.	DESCRIPTION
3100A & 3102	Concrete Aprons for S.C.P. Culverts
3123	Metal Aprons for C.M.P. Culverts
9000	Entrances and Approaches

TYPICAL GRADING SECTIONS



The upper one foot of the roadway to be excavated and backfilled with select material. The excavation has been computed and included in the balanced quantities.

TYPICAL BASE & SURFACE SECTIONS



3" Compacted depth
1985 Cubic Yards per Mile.

SPECIAL DETAILS

Pipe Culvert Excavation shall be considered incidental, and will be paid for under the unit price for Furnish and Install Culverts.

Material from the top one foot of the natural topsoil shall not be used in the top one foot of the Roadway. Part of this material shall be spread uniformly on slopes and ditch bottoms to a depth of three inches. No payment in addition to the Contract Price for Class A 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.

DAHMS PHOTO PRINT CO. MPLS. 1, MINN.

F.E. 3+27 Lt.
No Culv. Inpl.
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

F.E. 6+03 Lt.
Inpl. 18"X20' C.M.P.
Remove
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

S.A.R. No. 4

S.A.R. No. 3

Begin C.P. C-CA-56 Sta. 0+00

Construct 2-50' Radius Shoulder Curves

P.I. 26+23.5
Δ I.T. 0°15'

F.E. 3+14 Rt.
Inpl. 18"X24' C.M.P.
Remove
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

F.E. 6+13 Rt.
Inpl. 18"X24' C.M.P.
Remove
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

4+15 E
Inpl. 24"X 34' C.M.P.
Remove
F. and I. 24"X38' S.C.P.
F. and I. 2-24" Conc. Aprons

Township Road 26+29 Rt.
Inpl. 18" X42' C.M.P.
Remove
F. and I. 18"X58' C.M.P.
F. and I. 2-18" Metal Aprons

1+00 to 6+00 Clear and Grub 70 Trees

U.S.G.S. B.M.
Elev. 1076.20
30' Rt. 5+91

B.M. Elev. 1110.05
Spike in P.P.
42' Rt. 25+92

Profile 75' Lt.
Profile 75' Rt.

E 1030
F 767

E 8424
F 6316

INL. 74.5
OUT. 74.1

C.P. C-CA-56

OLMSTED COUNTY, Minn. Sheet No. 3 of 16 Sheets

F.E. 35+70 Lt.
Inpl. 18" X 20' C.M.P.
Remove
F. and I. 18" X 30' C.M.P.

F.E. 38+05 Lt.
Inpl. 18" X 22' C.M.P.
Remove
F. and I. 18" X 30' C.M.P.
F. and I. 2-18" Metal Aprons

F.E. 52+64 Lt.
Inpl. 18" X 20' C.M.P.
Remove
F. and I. 24" X 30' C.M.P.
F. and I. 2-24" Metal Aprons

55+85 ℄
Inpl. W10.8T X 26'
Conc. Culv.
No Change

PI 52+60
D 0°35' RT.

F.E. 52+64 Rt.
Inpl. 24" X 20' C.M.P.
Remove
No Culv. req'd.

F.E. 58+05 Rt.
Inpl. 24" X 20' C.M.P.
Remove
F. and I. 24" X 30' C.M.P.
F. and I. 2-24" Metal Aprons

F.E. 62+60 Rt.
Inpl. 18" X 20' C.M.P.
Remove
NO Culv. req'd.

36+00 to 40+00 Clear and Grub 25 Trees

B.M. Elev. 1114.44
X north end east hdwl.
12.5' Rt. 56+00

Profile 75' Lt. ----
Profile 75' Rt. ——

Special Ditch

E 8246
F 6109

C.P.-C-CA-56 OLMSTED COUNTY, MINN. Sheet 4 16

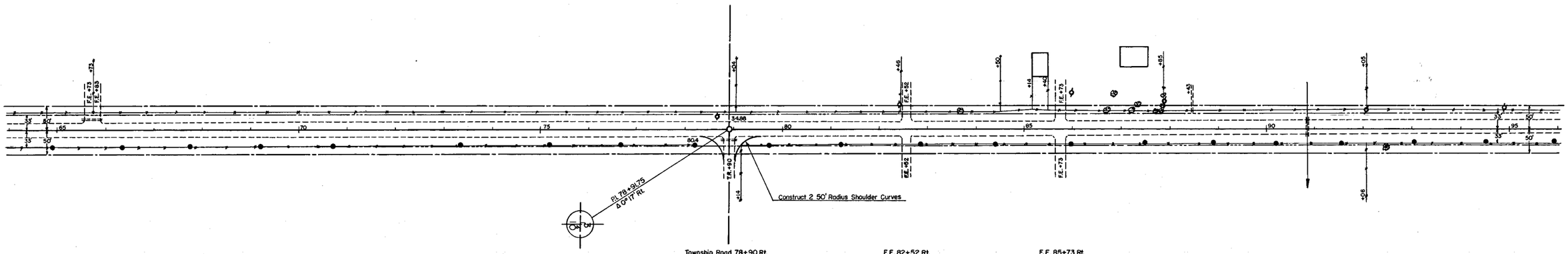
F.E. 65+73 & +83 Lt.
Inpl. 24" X40' C.M.P.
Remove
F. and L 24"x 60' C.M.P.
F. and L 2-24" Metal Aprons

F.E. 82+52 Lt.
No Culv. Inpl.
F. and L 18"X30' C.M.P.
F. and L 2-18" Metal Aprons

F.E. 85+73 Lt.
No Culv. Inpl.
F. and L 18"X30' C.M.P.
F. and L 2-18" Metal Aprons

88+43 Lt.
Tile Outlet

90+84 L.
Inpl. 30"X34' C.M.P.
Remove
F. and L 30"X42' S.C.P.
F. and L 2-30" Conc. Aprons



Township Road 78+90 Rt.
Inpl 18"X30' C.M.P.
Remove
F. and L 18"X58' C.M.P.
F. and L 2-18" Metal Aprons

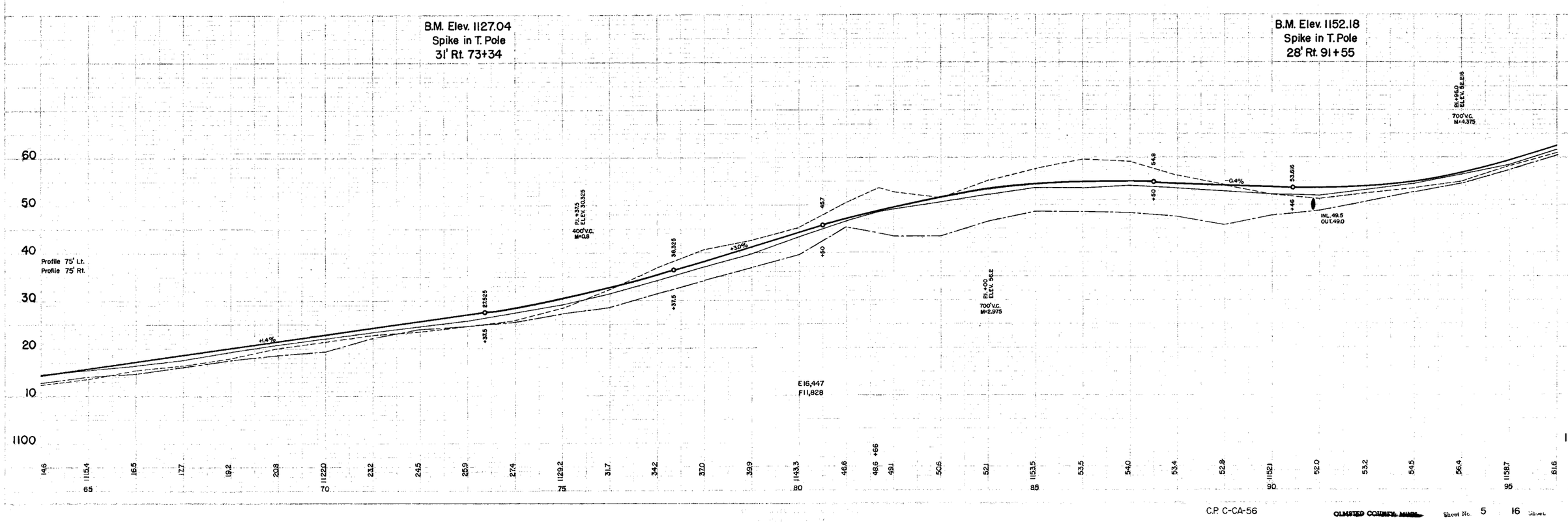
F.E. 82+52 Rt.
No Culv. Inpl.
No Culv. req'd.

F.E. 85+73 Rt.
No Culv. Inpl.
No Culv. req'd.

83+50 to 88+00 Clear and Grub 10 Trees

B.M. Elev. 1127.04
Spike in T. Pole
31' Rt. 73+34

B.M. Elev. 1152.18
Spike in T. Pole
28' Rt. 91+55



C.P. C-CA-56

OLMSTED COUNTY, MINN.

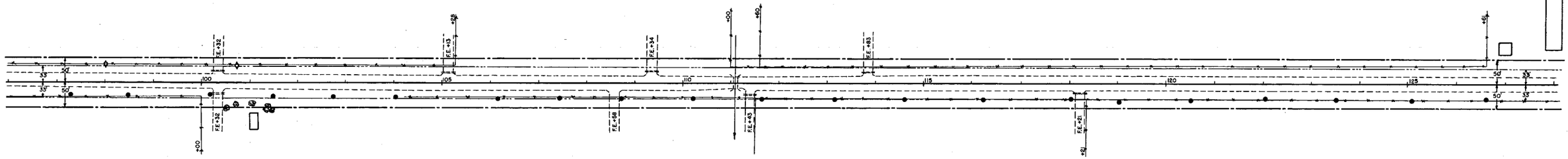
Sheet No. 5 16 Sheets

F.E. 100+32 Lt.
Inpl. 18" X20' C.M.P.
Remove
F and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

F.E. 105+13 Lt.
Inpl. 18" X 20' C.M.P.
Remove
F. and I. 18"X 30' C.M.P.
F. and I. 2-18" Metal Aprons

F.E.109+34 Lt.
Inpl. 18" X20' C.M.P.
Remove
F and I. 18"X30' C.M.P.
F. and L 2-18" Metal Aprons

F.E. 113+83 Lt.
Inpl 18" X20' C.M.P.
Remove
No. Culv. req'd.



F.E. 100+32 Rt.
Inpl. 18" X22' C.M.P.
Remove
F. and I. 18"X 30' C.M.P.
F and I. 2-18" Metal Aprons

F.E. 108+58 Rt.
No Culv. Inpl.
No Culv. req'd.

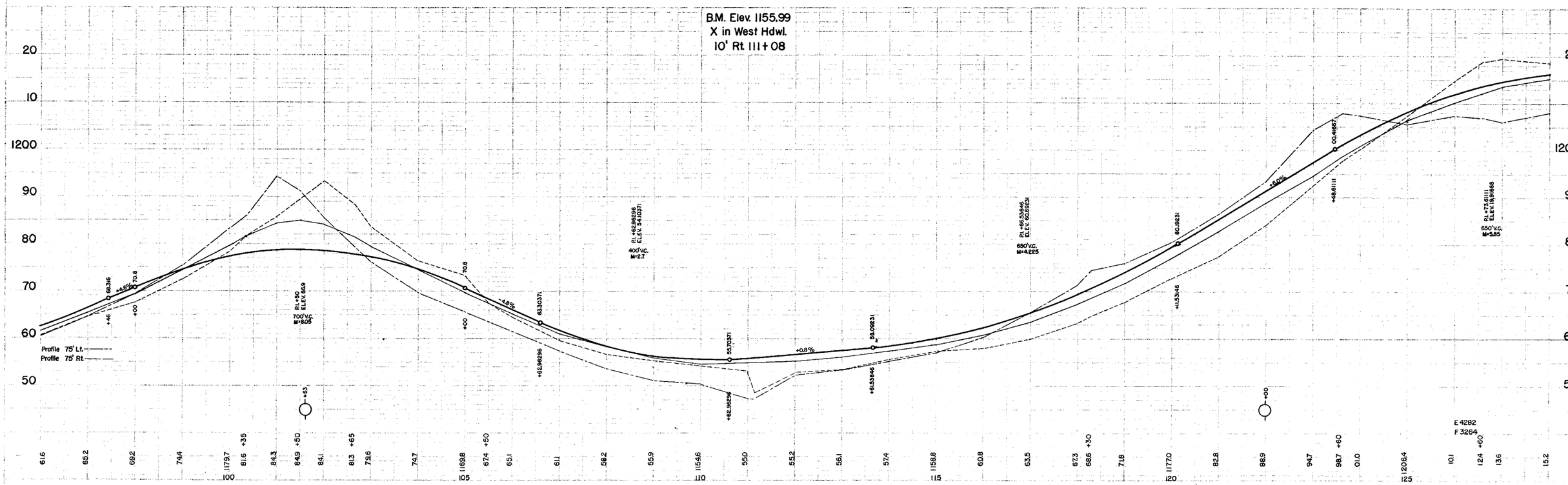
111+15 ℄
Inpl. W106 X 26#
Conc. Culv.
No Change

F.E. 111+43 Rt.
Inpl. 18" X 18' C.M.P.
Remove
No Culv. req'd.

F.E. 118+21 Rt.
Inpl. 18" X20' C.M.P.
Remove
F. and I. 18"X30' C.M.P.
F. and I. 2-18" Metal Aprons

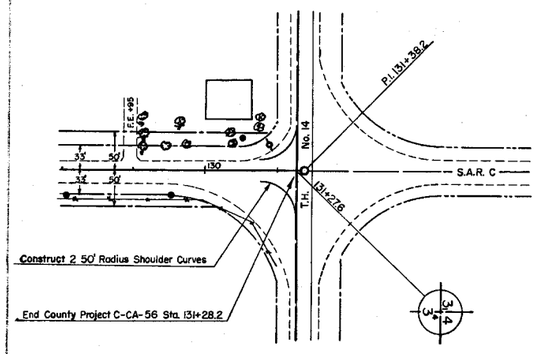
100+00 to 102+00 Clear and Grub 6 Trees

B.M. Elev. 1155.99
X in West Hdwl.
10' Rt. 111+08



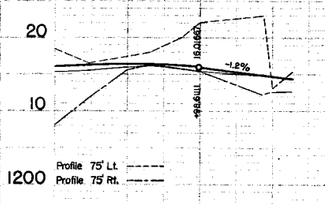
C.P. C-CA-56 OLMSTED COUNTY, MINN. Sheet No. 6 16

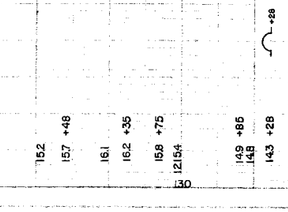
F.E. 128+95 Lt.
No Culv. Inpl.



129+00 to 130+50 Clear and Grub 6 Trees

B.M. Elev. 1212.06
Spike in P. Pole
NE. of P.I.





C.P. C-CA-56

OLMSTED COUNTY, MINN. Sheet No. 7 of 16