Form 413 Rev. 1959

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 NUB
MEANDER CORNER

T.109N. R.24W. 35 36 2 1 R.24W. T.108N.

CENTER SECTION 35 T.108N. R.24W.

12 13

NOTE: SECTION NUMBERS READ FROM THE SOUTH

STATE OF MINNESOTA

DEPARTMENT OF HIGHWAYS

CONSTRUCTION PLAN FOR Grading, Box Culverts and Crushed Rock Wearing Course

County State Aid Highway No. 30

BETWEEN CSAH 10 AND County Road B

From 175' N. and 164' W. of the SE Corner of Sec 33 T106N-R11W To 775.4' E. of the NE Corner of the NW1/4 SW1/4 Sec 14 T105N-R11W

Give proper reference to Sections, Township and Range

GROSS LENGTH 17,435.35 FEET 3.30215 MILES
BRIDGES LENGTH ——— FEET ——— MILES
EXCEPTIONS LENGTH ——— FEET ——— MILES
NET LENGTH 17,435.35 FEET 3.30215 MILES

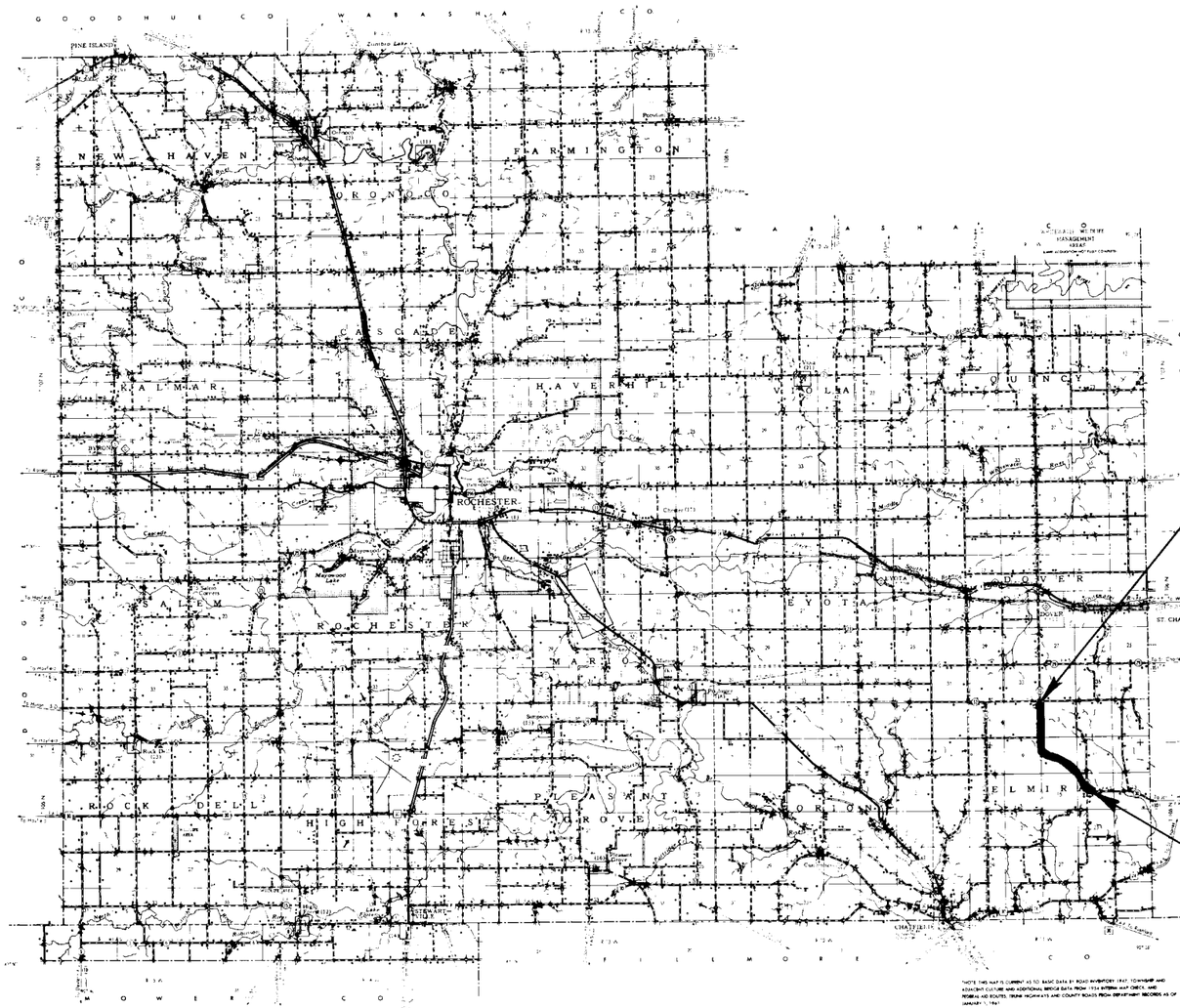
SCALES
PLAN, 1 Inch=100 Feet
PROFILE, Horz. 1 Inch=100 Feet. Vert. 1 Inch=10 Feet
WORKING PLANS: Horz. 1 Inch=100 Feet; Vert. 1 Inch=10 Feet; Cross-Section 1 Inch=10 Feet

LAYOUT
Scale, 1 Inch=10560 Feet

MINN. PROJ. ———

INDEX OF SHEETS

Sheet No. 1. Title Sheet & Layout Map
" No. 2. Est. Quantities & Typical Sec.
" No. 3. To 8 Plan & Profile
" No. 9 To 38 Cross Sections



NOTE: THIS MAP IS CURRENT AS TO BASIC DATA BY ROAD INVENTORY 1957, TOWNSHIP AND ASSESSOR CULTURE AND ADDITIONAL BRIDGE DATA FROM 1956 INTERIM MAP CHECK, AND FEDERAL AID ROUTES, TRUNK HIGHWAYS AND COUNTY ROADS FROM DEPARTMENT RECORDS AS OF JANUARY 1, 1961

NOTE: SEE MAP OF MUNICIPALITIES FOR DETAIL OF COUNTY STATE AID HIGHWAYS AND COUNTY ROADS

Begin S.A.P. 55-630-01
Sta. 0+00

End S.A.P. 55-630-01
Sta. 174+35.35

Design Speed 50 M.P.H.
Projected A.D.T. 120

ALL FEDERAL, STATE AND LOCAL LAWS 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

COUNTY ENGINEER ——— DATE ———
COUNTY ——— REG. NO ———

RECOMMENDED FOR APPROVAL ——— 19 ——
DISTRICT ENGINEER

RECOMMENDED FOR APPROVAL ——— 19 ——

APPROVED ——— 19 ——
STATE AID ENGINEER

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED ——— ———

—SPECIFICATIONS—

THE "SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED MAY 1, 1959, AND SUBMITTED FOR APPROVAL BY THE DIVISION ENGINEER OF THE BUREAU OF PUBLIC ROADS ON MARCH 26, 1959, SHALL GOVERN.

Minn. Proj. No. ——— State Proj. No. ——— State Aid Project No. 55-630-01

Olmsted County, Minnesota County Proj. No. ——— Plan No. ——— Sheet No. 1 of 38 Sheets

H. A. ROGERS CO. Minneapolis

FORM 129c - No. 2 Rev. '

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

ESTIMATED QUANTITIES

SPECIFICATION NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES	MUNICIPAL	RURAL
2101.501	Clearing	Acre	3.92		
2101.502	Clearing	Tree	550		
2101.506	Grubbing	Acre	3.92		
2101.507	Grubbing	Tree	451		
2104.501	Remove Portable Culverts	Lin. Ft.	718		
2104.520	Remove Conc. Box Culv. Sta.125+66	Structure	1		
2105.501	Class A Excavation	Cu. Yd.	122,670		
2105.502	Class B Excavation	Cu.Yd.	31,260		
2105.504	Class SG Excavation	Cu. Yd.	1,837		
109.621	Obliterate Old Road	Acre	3.1		
2130.501	Water	M. Gal.	238		
* 2210.527	Crushed Rock Base Inplace	Cu. Yd. (V.M)	9,481		
2411.501	Concrete	Cu. Yd.	203		
2411.525	Class U Excavation	Cu. Yd.	262		
2411.541	Reinforcement Bars	Lb.	28,028		
2414.511	F&I Precast Conc Cattle Pass	Lin. Ft.	78		
2414.512	F&I Precast Conc Cattle Pass End Sections	End Section	2		
2441.502	Single Lane By Pass	By-Pass	1		
2501.511-18"	F&I 18" CMP Culverts	Lin. Ft.	516		
2501.511-24"	F&I 24" CMP Culverts	Lin. Ft.	104		
2501.511-36"	F&I 36" CMP Culverts	Lin. Ft.	102		
2501.521-24"	F&I 24" SCP Culverts Class 2	Lin. Ft.	84		
2501.521-24"	F&I 24" SCP Culverts Class 3	Lin. Ft.	84		
2501.521-30"	F&I 30" SCP Culverts Class 2	Lin. Ft.	124		
2501.521-36"	F&I 36" SCP Culverts Class 2	Lin. Ft.	122		
2501.521-36"	F&I 36" SCP Culverts Class 3	Lin. Ft.	46		
2502.513-8"	F&I 8" CMP Drain non-Perf.	Lin. Ft.	80		
2515.531-18"	F&I Metal Aprons for 18" CMP	Apron	34		
2515.531-24"	F&I Metal Aprons for 24" CMP	Apron	4		
2515.531-36"	F&I Metal Aprons for 36" CMP	Apron	4		
2515.541-24"	F&I Conc Aprons for 24" SCP	Apron	4		
2515.541-30"	F&I Conc Aprons for 30" SCP	Apron	4		
2515.541-36"	F&I Conc Aprons for 36" SCP	Apron	6		

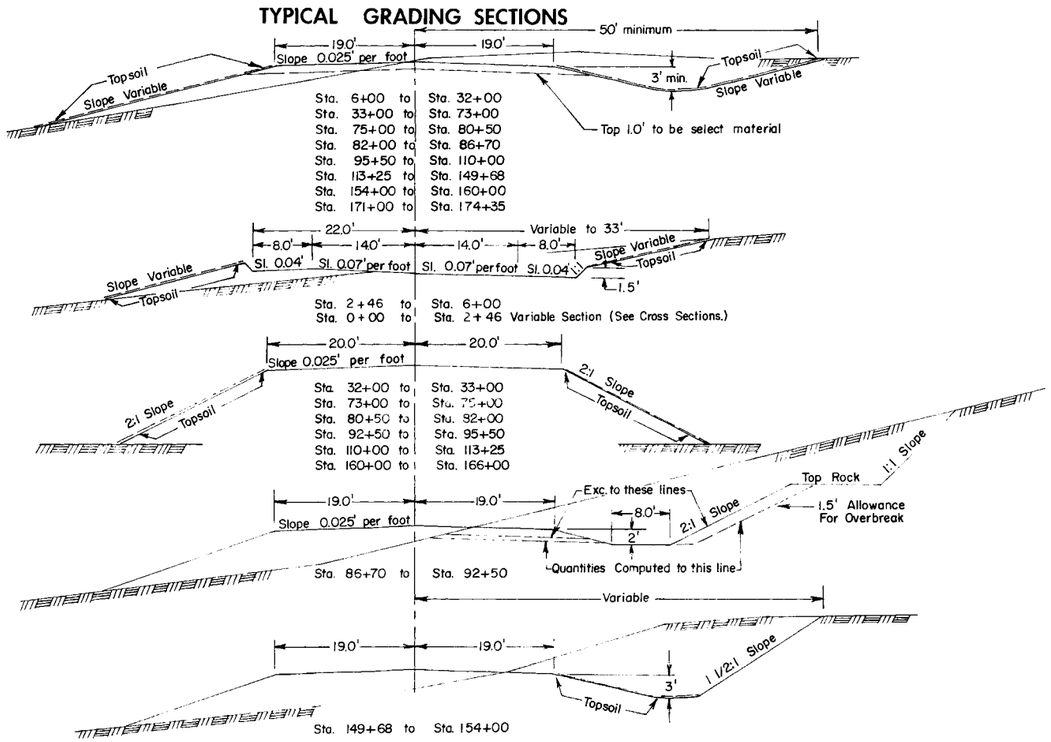
* Item 2210.527 Includes 842 Cu.Yds. for Approaches and Entrances.

STANDARD DETAIL PLATES

Standard Detail Plates issued October 1, 19 and submitted for approval by the Division Engineer of the Public Roads Administration October 15, 19 shall govern

PLATE NO.	STANDARD DETAIL PLATES
3000B	Reinforced Concrete Pipe
3100B & 3102A	Concrete Aprons for Reinforced Concrete Pipe
3123A	Metal Apron for CM Pipes

TYPICAL GRADING SECTIONS



Special Details

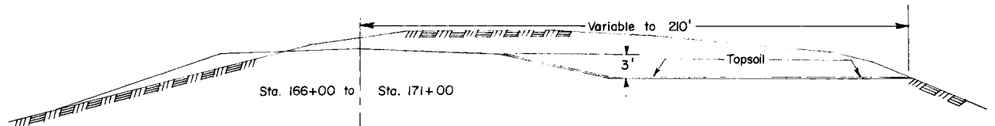
Note: Material from the upper 1.0' of the natural topsoil shall not be used in the upper 1.0' of the roadway. Part of this material shall be uniformly spread on slopes and ditch bottoms to a depth of 3." No payment in addition to the contract price for Class A excavation will be made for spreading the topsoil as above provided, nor will any undercutting made in excavation prior to placing the topsoil, be measured for payment.

Note: Corrugated metal and Sectional Concrete pipe culvert excavation will be considered incidental, and will be under unit price for "Furnish and Install Culvert Pipe".

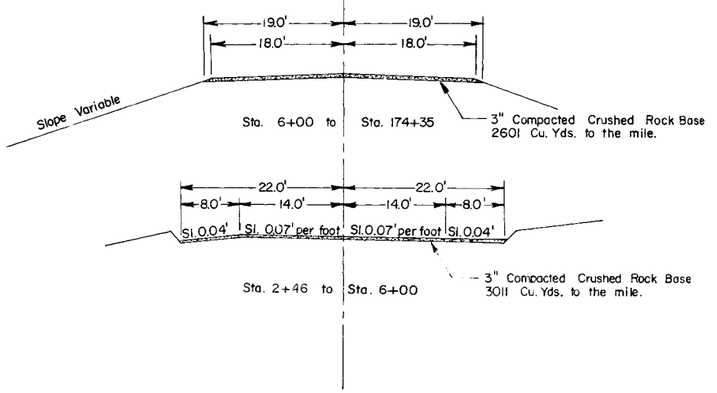
Note: Subgrade Treatment:
Excavate 1.0' below profile grade for compaction, as shown on the plan and profile sheets. Excavation has been computed and is listed as SG excavation. Backfill with select material from R.O.W. Tapers shall be 50:1 in all cases.

Note: Place Sectional Concrete Pipe on Class "C" and Class "B" Bedding.

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



TYPICAL BASE & SURFACE SECTIONS



H.A. ROGERS CO.
MPLS. MINN.

Olmsted County, Minn. S.A.P. Proj. No. 55-630-01 Plan No. _____ Sheet No. 2 of 38 Sheets

FED ROAD DIST NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

2+30 Twp Rd Lt
No Culv Inpl
F&I 18"X 36' CMP
F&I 2-18" Metal Aprons
For CMP

2+50 ℄ Culv
Inpl 18"X30' CMP
Remove
No Culv Req'd

3+94 FE Lt
No Culv Inpl
No Culv Req'd

12+54 ℄ Culv
Inpl 24"X34' CMP
Remove
F&I 30"X 56' SCP Class 2
F&I 2-30" Conc Aprons
For SCP
Class "C" Bedding

20+00 FE Lt
No Culv Inpl
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

28+49 FE Lt
Inpl 18"X 20' CMP
Remove
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

Begin S.A.P. 55-630-01
Sta. 0+00

CSAH 10

Twp Rd

Ho.

Barn

Corn Crib

Pump

Bldg

School Swing Set

Church

0+54 ℄ Culv
Inpl 24"X48' CMP
2-24" Metal Aprons
Extend Lt & Rt
F&I 24" X 20' CMP Lt
F&I 24"X 24' CMP Rt
Salvage and Replace Aprons

2+74 School Ent. Rt
Inpl 12"X 14' CMP
Remove
No Culv Req'd

3+80 Church Ent. Rt.
No Culv Inpl
No Culv Req'd

P.I. 24+39.25
Rt 43°36'
14°00'
164.09'
311.43'

P.C. 0+76.16

P.T. 3+86.59

P.I. 28+34.0
Δ Rt 0°28'
D 0°02'
T 349.98'
L 699.97'

P.C. 24+84.02

N 0°38 W

Cl. 16 Gr. 14 — Cl. 0 Gr. 1

B.M. Elev. 1329.13'
Spk in PP 78' Lt
Sta. 2+03

B.M. Elev. 1315.82'
Spk in TP 32' Lt
Sta. 19+23

Finished Grades

Present ℄ Grades

Elev. 26.0
+2.2%
Inlet 22.0
Outlet 20.0
P.V.C.+50
P.I. +00
Elev. 33.3
700' V.C.
M = 4.375
P.V.T.+50
Elev. 23.5
-2.8%
Elev. 20.6125
P.V.C.+53.1250
P.I. +53.1250
Elev. 15.0125
400' V.C.
M= 1.6
P.V.T.+53.1250
15.8125
Inlet 11.5
Outlet 08.9
+0.4 %
Elev. 19.6
P.V.C.+00
P.I. +00
Elev. 20.8
600' V.C.
M = 3.3
P.V.T.+00
-4.0 %
Elev. 08.8
Elev. 08.7778
P.V.C.+93.05555

Profile 75' Lt
Profile 75' Rt

Subgrade Treatment
Exc. 1.0' Below Profile Grade
Sta. 2+50 to Sta. 6+25

	"A"	1402		"A"	1311		"A"	6309
EXC	"SG"	442	EXC	"SG"	44	EXC	"B"	2718
EMB		862	EMB		939	EMB		7021

+70 +20 +17

0+00 5 10 15 20 25

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT OF WAY CHECKED
NOTE BOOK
NO.

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
CROSS SECTIONS
NOTE BOOK
NO. -
STRUCTURE NOTATIONS CHANGED

DATE BY

OLMSTED COUNTY, MINN. State Proj. No. S.A.P. 55-630-01 Sheet No. 3 of 38 Sheets

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

31+99 FE Lt
No Culv Inpl
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

33+70 FE Lt
No Culv Inpl
No Culv Req'd

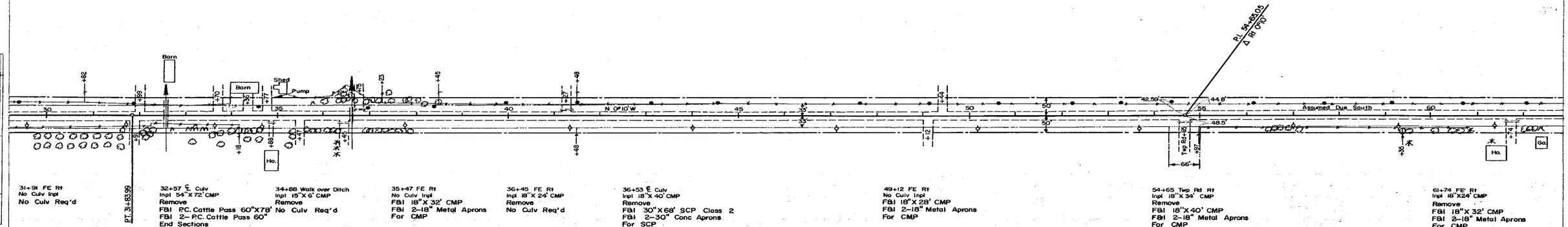
34+36 FE Lt
No Culv Inpl
No Culv Req'd

34+77 FE Lt
No Culv Inpl
No Culv Req'd

36+75 FE Lt
Inpl 15"X20' CMP
Remove
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

41+27 FE Lt
Inpl 18"X 20' CMP
Remove
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

49+44 FE Lt
No Culv Inpl
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP



31+91 FE Rt
No Culv Inpl
No Culv Req'd

P.T. 31+83.99

32+57 ℄ Culv
Inpl 54"X 72' CMP
Remove
F&I P.C. Cattle Pass 60"X78'
F&I 2- P.C. Cattle Pass 60"
End Sections

34+88 Walk over Ditch
Inpl 15"X 6' CMP
Remove
No Culv Req'd

35+47 FE Rt
No Culv Inpl
F&I 18"X 32' CMP
F&I 2-18" Metal Aprons
For CMP

36+45 FE Rt
Inpl 18"X 24' CMP
Remove
No Culv Req'd

36+53 ℄ Culv
Inpl 18"X 40' CMP
Remove
F&I 30"X 68' SCP Class 2
F&I 2-30" Conc Aprons
For SCP
Class "C" Bedding

49+12 FE Rt
No Culv Inpl
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

54+65 Twp Rd Rt
Inpl 18"X 34' CMP
Remove
F&I 18"X 40' CMP
F&I 2-18" Metal Aprons
For CMP

61+74 FE Rt
Inpl 18"X24' CMP
Remove
F&I 18"X 32' CMP
F&I 2-18" Metal Aprons
For CMP

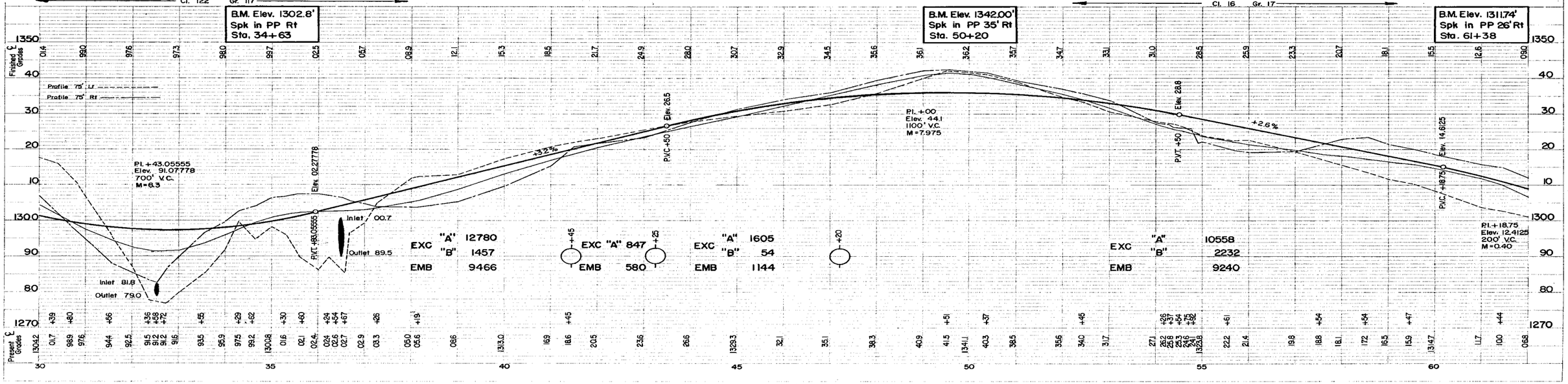
Cl. 122 Gr. 117

B.M. Elev. 1302.8'
Spk in PP Rt
Sta. 34+63

Cl. 16 Gr. 17

B.M. Elev. 1342.00'
Spk in PP 35' Rt
Sta. 50+20

B.M. Elev. 1311.74'
Spk in PP 26' Rt
Sta. 61+38



FED. ROAD DIST. NO	STATE	FEDERAL PROJ. NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS

PLAN — DRAWN: PLOTTED: GRADES CHECKED: ALIGNMENT CHECKED: RT. OF WAY CHECKED: NOTE BOOK NO.: — BY: DATE:

64+78 FE Lt
No Culv Inpl
No Culv Req'd

72+85 FE Lt
Inpl 24"X 30' CMP
Remove
F&I 24"X 32' CMP
F&I 2-24" Metal Aprons
For CMP

P.I. 82+25.34
Δ Lt 101° 29'
D 7°00'
T 1000.66'
L 1448.57'

P.O.T. 72+00

RC 72+24.66

P.T. 86+73.23

P.O.T. 87+23.10

63+54 FE Rt
Inpl 18"X22' CMP
Remove
F&I 18" X 28' CMP
F&I 2-18" Metal Aprons
For CMP

64+62 ℄ Culv.
Inpl 24"X 32' CMP
Remove
No Culv Req'd

64+64 ℄ Culv
Inpl 24"X 32' CMP
Remove
F&I 36"X 46' Class 3
F&I 2-36" Conc Aprons
For SCP
Class "B" Bedding

Construct 50' Shoulder Radius

82+68 ℄ Culv
Inpl 18"X 42' CMP
Remove
No Culv Req'd

81+55 ℄ Culv
F&I 24"X 84' SCP Class 2
F&I 2-24" Conc Aprons
For SCP
Class "C" Bedding

73+25 ℄ Culv
Inpl 72"X66' CMP
Remove
Const. C66X96'+45°
Conc. 87.0 Cu. Yds.
Reinf Bars 13,300 lbs
Class "U" Exc. 120 Cu. Yds.
Single lane By-Pass

73+76 FE Rt
Inpl 18"X20' CMP
Remove
F&I 18"X28' CMP
F&I 2-18" Metal Aprons
For CMP

75+50 Construct Form Ent. Rt
F&I 18"X 32' CMP
F&I 2-18" Metal Aprons
For CMP

Obliterate Old Road 1.1 Acres

Cl. 3 Gr. 6 — Cl. 21 Gr. 21 — Cl. 3 Gr. 8

B.M. Elev. 1311.74'
Spk in PP 26' Rt
Sta. 61+38

B.M. Elev. 1265.97'
Spk in PP Lt
Sta. 72+21

PROFILE — DRAWN: PLOTTED: GRADES CHECKED: ALIGNMENT CHECKED: STRUCTURE LOCATIONS CHKD: NOTE BOOK NO.: — BY:

Finished ℄ Grades / Present ℄ Grades

Profile 75' Lt
Profile 75' Rt

P.I.+18.75
Elev. 12.4125
200' V.C.
M=0.40

+2.6%
-4.2%
-4.8%

Inlet 93.7
Outlet 92.0

Special Ditch Sta. 64+60 to Sta. 67+55

P.I.+84.44444
Elev. 67.65333
400' V.C.
M= 2.25

Subgrade Treatment
Exc. 1.0' Below Profile Grade
Sta. 65+90 to Sta. 70+50

"A" 2582
"SG" 253
EXC "B" 3
EMB 1781

"A" 4555
"SG" 337
EXC "B" 6
EMB 3102

Subgrade Treatment
Exc. 1.0' Below Profile Grade
Sta. 76+00 to Sta. 78+25

"A" 9627
"SG" 464
EXC "B" 2705
EMB 9005

+0.3%

Inlet 63.5
Outlet 57.0'

Subgrade Treatment
Exc. 1.0' Below Profile Grade
Sta. 83+25 to Sta. 85+25

P.I.+90.56603
Elev. 72.47170
700' V.C.
M = 4.63750

FED. ROAD DIST. No.	STATE	FEDERAL PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS

94+08 ℄ Box Culv
Inpl W108X52' +30°
Extend Inlet 34'
Conc 58.2 Cu.Yds.
Reinf. Bars 8,861 lbs.
Class "U" Exc. 47 Cu.Yds.

101+76 FE Lt
No Culv Inpl
No Culv Req'd

115+60 ℄ Box Culv (Skewed)
Inpl W86D X 38'+30°
Extent Outlet 26'
Conc. 57.7 Cu. Yds.
Reinf. Bars 5,867 Lbs.
Class "U" Exc. 95 Cu. Yds.

P.I. 108+07.96
Δ Lt 19°41'30"
D 5°00'
T 198.92'
L 393.83'

P.C. 106+09.04

P.T. 110+02.87

P.I. 91+35.72
Δ Rt 37°10'
D 6°00'
T 321.20'
L 619.44'

P.T. 94+33.96

P.C. 99+24.61

P.I. 101+21.58
Δ Rt 19°30'
D 5°00'
T 196.97'
L 390.0'

P.T. 103+14.61

99+10 FE Rt
No Culv Inpl
No. Culv. Req'd

101+21 ℄ Culv
Inpl 30"X40' CMP
Remove
F&I 36"X 76' CMP
F&I 2-36" Metal Aprons
For CMP

114+31 FE Rt
No Culv Inpl
Remove
No Enf. Req'd

115+75 FE Rt
No Culv Inpl
No Culv Req'd

PLAN — SURVEYED ___ PLOTTED ___ ALIGNMENT CHECKED ___ RT. OF WAY CHECKED ___ NOTE BOOK ___ NO. ___ DATE ___ BY ___

Cl. 1 tree 0.36 Acre Gr. 4 trees 0.36 Acre — Cl. 19 Gr. 19 — Cl. 17 trees 0.27 Acre Gr. 17 trees 0.27 Acre — Cl. 13 trees 0.05 Acre Gr. 13 trees 0.05 Acre — Cl. 5 trees 0.18 Acre Gr. 5 trees 0.18 Acre

B.M. Elev. 1268.35'
Spk in fe Post Lt
Sta. 88+28

B.M. Elev. 1232.16'
Spk in PP 53' Lt
Sta. 101+22

B.M. Elev. 1190.03'
X in NE Cor of
N. Hdwl Sta.115+74

Finished ℄ Grades

Present ℄ Grades

Profile 75' Lt

Profile 75' Rt

Elev. 54.97169

P.V.T. +40.56630

-5.0%

P.V.C. +93.61702 Elev. 42.31915

Pt. +93.61702
Elev. 32.31915
400' V.C.
M = 2.35

Elev. 31.71915

P.V.T. +93.61702

-0.3%

Elev. 29.85532

P.V.C. +14.89361

Inlet 26.0

Outlet 18.5

Pt. +14.89361
Elev. 2895332
600' V.C.
M = 3.525

Elev. 1395332

-5.0%

Elev. 06.03334

P.V.C. +14.89361

P.V.C. +73.33333

Pt. +73.33333
Elev. 96.03334
400' V.C.
M = 1.5

Elev. 92.03334

-2.0%

P.V.T. +73.33333

	"A"	EXC "B"	EMB
	3863	5076	7068
	464	111	430
	2467	1144	2845
	68	1547	975
	1807	5900	6303

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

120+42 FE (Lt of old Road)
No Culv Inpl
No Culv Req'd

125+50
F&I 8"X 80' CMP Drain
Spec. 2502.513

125+66 ℄ Box Culv
Inpl W64 X 30'
Remove
F&I 36"X 58' SCP Class 2
F&I 2-36" Conc Aprons
For SCP
Class "C" Bedding

130+98 FE Lt
Inpl 15"X 24' CMP
Remove
No Culv Req'd

138+46 FE (South of old Road)
Inpl 18"X 24' CMP
Remove
No Ent. Req'd

139+07 FE (South of old Road)
Inpl 18"X 24' CMP
Remove
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

Obliterate Old Road 2.00 Acres

Construct Special Ditch
Sta. 126+00 to Sta. 137+13

P.O.T. 140+14.78

P.O.T. 145+60.69

C&GH 30'

Sewer Outlet

Ga.

Ho.

Pump & Well

124+80.58
Rt 29°08'
5°00'
297.82'
582.67'

124+26 FE Rt
Inpl 15"X 24' CMP
Remove
F&I 36"X 26' CMP
F&I 2-36" Metal Aprons
For CMP

P.T. 127+65.43

126+63 FE Rt
No Culv Inpl
No Culv Req'd

137+50
Construct F Ent. Rt
F&I 24"X 28' CMP
F&I 2-24" Metal Aprons
For CMP

145+00 ℄
F&I 36" X 64' SCP Class 2
F&I 2-36" Conc Aprons
For SCP

S64°56'30"E

S35°47'30"E

P.C. 124+82.76

B.M. Elev. 1167.20'
Spk in PP 49' Lt
Sta. 127+39

B.M. Elev. 1156.10'
Spk in PP 134' Lt
Sta. 138+64

Finished ℄ Grades

Present ℄ Grades

P.I.+50
Elev. 70.5
400' V.C.
M=0.65

-2.0 %

Elev. 74.5

P.V.C. +50

Inlet 66.3
Outlet 65.0

Elev. 69.10

P.V.T.+50

-0.7 %

Elev. 67.35

P.V.C.+00

P.I.+00
Elev. 65.95
400' V.C.
M=0.10

-1.04 %

Elev. 64.15

P.V.C.+00

-0.9 %

Elev. 56.95

P.I.+00
Elev. 55.15
400' V.C.
M= 1.2250

+1.55 %

Elev. 58.25

P.V.T.+00

Inlet 49.6

Outlet 48.0

Profile 75' Lt

Profile 75' Rt

Special Ditch From Sta. 126+00 to Sta. 137+13

Ditch Elevs.

"A" 29761
EXC "B" 6132
EMB 25784

SINGLE PLAN & PROFILE - DOTTED
CHARLES BRUNING COMPANY, INC.

OLMSTED COUNTY, MINN.

State Proj. No. S.A.P. 55-630-01 Sheet No. 7 of 38 Sheets

FED. ROAD DIST. NO.	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

PLAN — SURVEYED: ; PLOTTED: ; DRAWN: ; CHECKED: ; ALIGNMENT CHECKED: ; NO. OF MAP SHEETS: ; MATE BOOK NO.: ; DATE: ; BY: ;

PROFILE — SURVEYED: ; PLOTTED: ; DRAWN: ; CHECKED: ; IS MAP NOTED: ; STRUCTURE MTNTS. LOCD: ; MATE BOOK NO.: ; DATE: ; BY: ;

150+50
Construct F. Ent. Lt.
No Culv Req'd

POST. 151+11.42

POST. 152+55.09

P.I. 153+74.80
Δ Rt 9°09'
D 1°00'
T 458.48'
L 915.0'

P.C. 149+16.32

P.T. 158+31.32

POST. 160+53.63

163+50
Construct Twp Rd Connection Lt
No Culv. Req'd

P.C. 163+80.63

P.I. 169+69.33
Lt 63°17'
Δ 6°00'
D 588.7'
T 1054.72'

Construct 80' Shoulder Radius

162+65 ℄
F.A.I. 24" X 84' Class 3
F.A.I. 2-24" Conc Aprons
For S.C.P.
Class "C" Bedding

166+50
Construct County Rd "B" Connection Rt
F.A.I. 18"X 36' CMP
F.A.I. 2-18" Metal Aprons
For CMP

POST. 167+09.92

165+87 FE (East Side of old Road)
No Culv Inpl
F.A.I. 18"X 28' CMP
F.A.I. 2-18" Metal Aprons
For CMP

P.T. 174+36.35

End S.A.P. 55-630-01
Sta. 174+35.35

Windmill, Basement, Cistern, B.M., Woods, Brush, Fence, C.R. 19, S 26°38' 30" E, 50', 30', 66'

Cl. 266 trees 1.22 Acre — Gr. 169 trees 1.22 Acre

Cl. 48 trees 1.84 Acre — Gr. 40 tree 1.84 Acre

B.M. Elev. 1169.58'
Hub on Curve
Tangent

B.M. Elev. 1185.80'
Spk in PP NE of Intersection

B.M. Elev. 1151.17'
Spk in TP 44' Rt
Sta. 174+35

Finished ℄ Grades

Profile 75' Lt

Profile 75' Rt

+1.55 %

+0.3%

+2.3%

-4.7%

P.I. +00
Elev. 66.0
400' V.C.
M = 0.625

P.I. +00
Elev. 69.0
300' V.C.
M = 0.75

P.I. +58.57142
Elev. 84.14715
1000' V.C.
M = 8.75

Inlet 57.0

Outlet 56.5

Subgrade Treatment
Exc. 1.0' Below Profile Grade
Sta. 166+50 to Sta. 167+75

Subgrade Treatment
Exc. 1.0' Below Profile Grade
Sta. 170+90 to Sta. 172+75

EXC. 525 — EMB 362

EXC "A" 28827, "B" 2175, "SG" 164 — EMB 19598

EXC "A" 3312, "SG" 133 — EMB 755

Present ℄ Grades

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OLMSTED COUNTY, MINN.

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