FORM 100-A '65

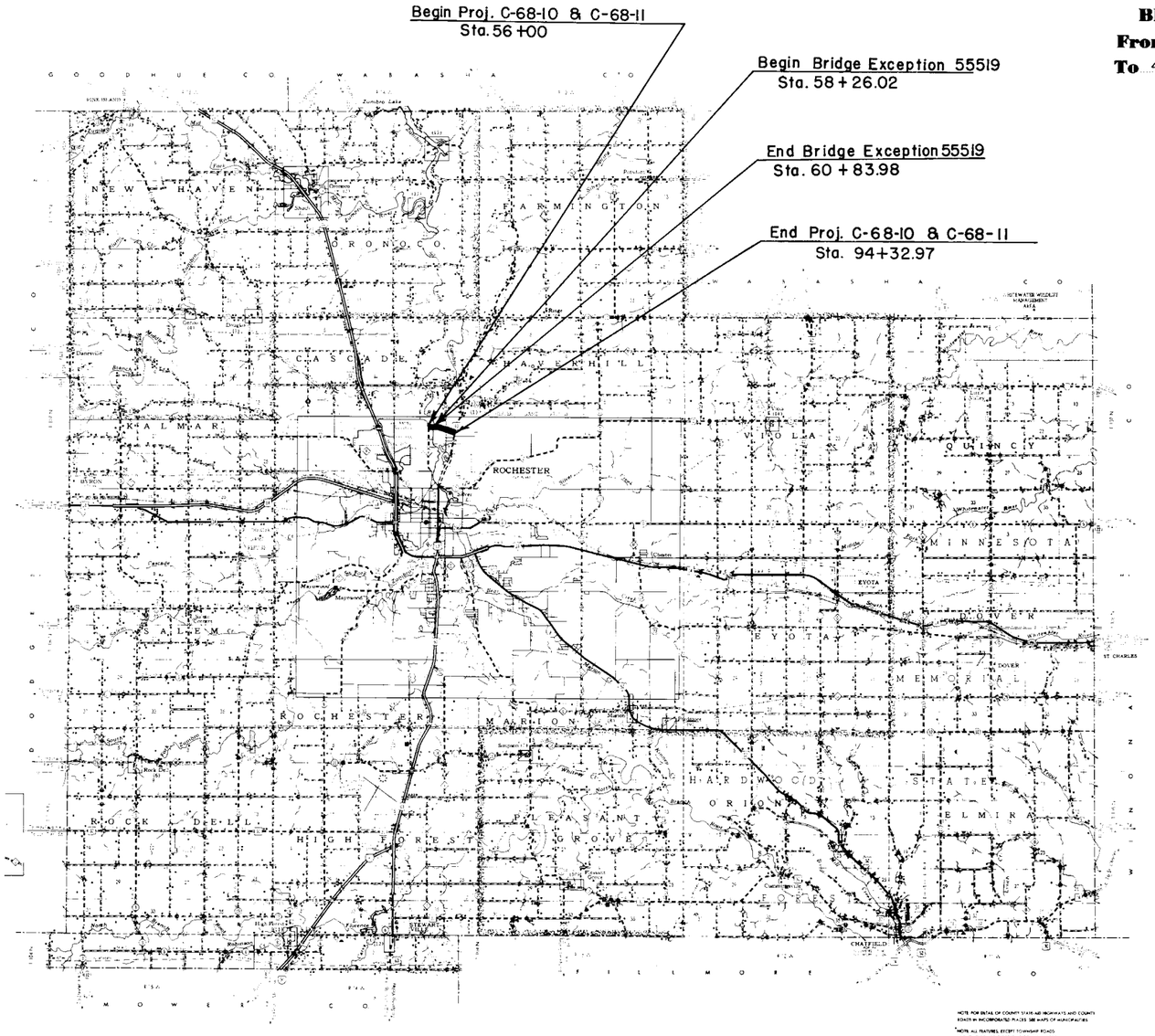
Fed. Proj. No.

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 (W)
CHAIN LINK FENCE (C.L.)
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) (1.5 F 75)
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 (G)
WATER MAIN (W)
CONDUIT
TELEPHONE CABLE IN CONDUIT (T)
ELECTRIC CABLE IN CONDUIT (P)
TELEPHONE MANHOLE (T)
ELECTRIC MANHOLE (P)
BURIED TELEPHONE CABLE (T-BUR)
BURIED ELECTRIC CABLE (P-BUR)
AERIAL TELEPHONE CABLE (T-AE)
SEWER, (SANITARY OR STORM)
SEWER MANHOLE



STATE OF MINNESOTA

DEPARTMENT OF HIGHWAYS

CONSTRUCTION PLAN FOR Grading & Surfacing

COUNTY STATE AID HIGHWAY NO. 22

BETWEEN CR "Y" **AND** T.H. 63

From 320.80' East and 75' North of the N.W. corner of the SW 1/4 of the NE 1/4 of Sec. 23 T 10 N-R 14 W
(Give proper reference to Sections, Township and Range)

To 434.20' North of the SE corner of the SW 1/4 NW 1/4 Sec. 24 T 107N-R 14W

GROSS LENGTH	3832.97	FEET	0.726 MILES
BRIDGES-LENGTH	264.68	FEET	0.050 MILES
EXCEPTIONS-LENGTH	286.00	FEET	0.054 MILES
NET LENGTH	3546.97	FEET	0.671 MILES

INDEX OF SHEETS

Sheet No 1 Title Sheet & Layout Map
" No 2 Est Quantities & Typical Sec
" No 3 To 4 Plan & Profile
" No 5 To 15 Cross Sections

DESIGN SPEED 50 **M. P. H.**

PROJECTED A. D. T. 3,500 (T)

7 Ult. 9 **TON DESIGN**

SOIL FACTOR 100

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

COUNTY ENGINEER — DATE

COUNTY REG. NO.

RECOMMENDED FOR APPROVAL
DISTRICT STATE AID ENGINEER , 19

RECOMMENDED FOR APPROVAL , 19

APPROVED , 19
STATE AID ENGINEER

— **SPECIFICATIONS** —
STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION DATED JANUARY 1, 1968 SHALL GOVERN.

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

Olmsted County, Minnesota. County Proj. No. C-68-10 C-68-11 Plan No. Sheet 1 of 13 Sheets

ALBINSON, INC.
MINNEAPOLIS, MINN. 55415

FORM 100-A 63

FED. ROAD DIV. NO	STATE	FEDERAL PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MINN.				

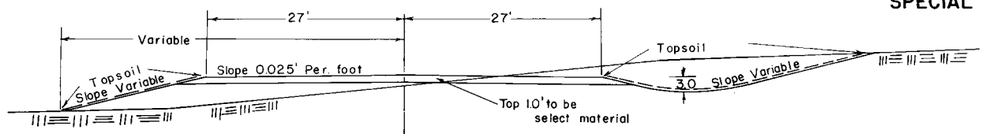
ESTIMATED QUANTITIES

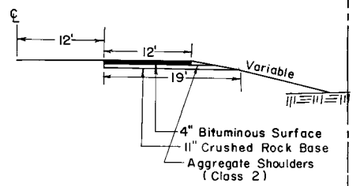
SPECIFICATION NO.	ITEM	UNIT	MUNICIPAL	RURAL	TOTAL ESTIMATED QUANTITIES
2101.501	Clearing	Acre			2.97
2101.502	Clearing	Tree			8
2101.506	Grubbing	Acre			2.97
2101.507	Grubbing	Tree			9
2105.501	Common Excavation	Cu. Yd.			43,767
2105.503	Rock Excavation	Cu. Yd.			300
2105.507	Subgrade Excavation	Cu. Yd.			7,441
2105.523	Common Borrow	Cu. Yd.			12,110
2501.511	F&I 18" Metal Pipe Culvert	Lin. Foot			96
2501.524	F&I 28 1/2" Span Conc. Pipe Arch Class III	Lin. Foot			134
2501.532	F&I 18" Metal Aprons	Apron			6
2501.537	F&I 28 1/2" Span Concrete Apron	Apron			2
2211.501	Aggregate Base Class II	Cu. Yd.			3,336

Item 2211.501 Includes 308 Cu. Yds. for Rt. Turn Lane on T.H. 63
Includes 448 Cu. Yds. for 3rd. Ave. Approaches
Includes 100 Cu. Yds. for Entrances

NOTE:
County Project C-68-10 and C-68-11
Constructed under Equipment Rental.
During Oct. and Nov. 1968

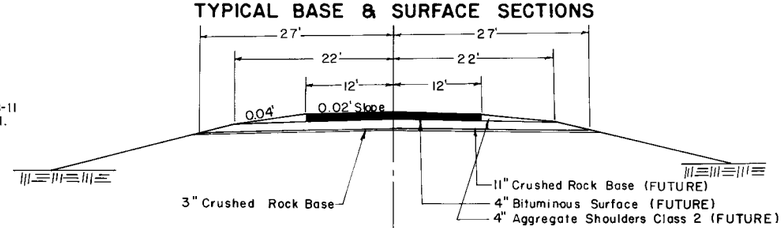
TYPICAL GRADING SECTIONS



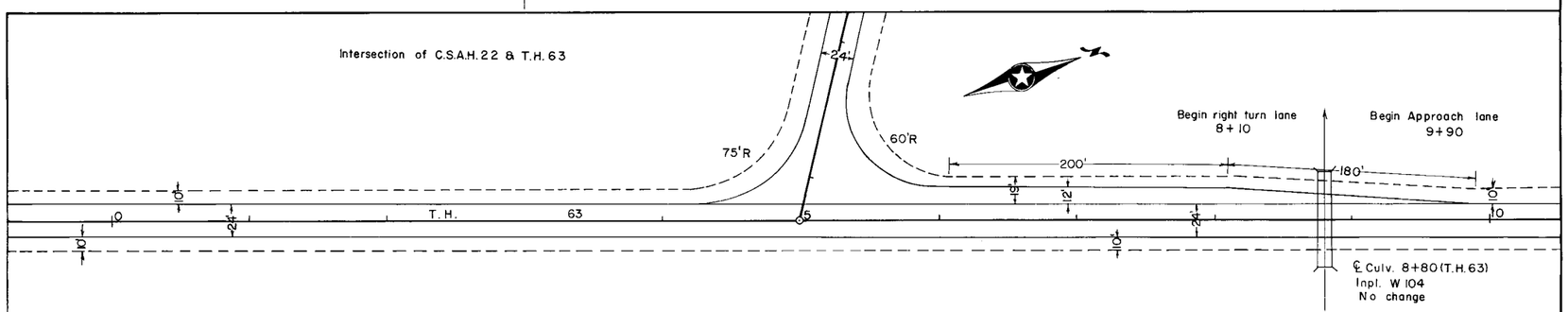


T.H. 63 RIGHT TURN LANE PLAN

TYPICAL BASE & SURFACE SECTIONS



SPECIAL DETAILS



STANDARD DETAIL PLATES

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

PLATE NO.	DESCRIPTION
3014 D	Reinforced Concrete Pipe Arch
3040 C	Corrugated Metal Pipe
3110 C	Concrete Apron for Reinforced Concrete Pipe-Arch
3123 E	Metal Aprons for C.M. Pipes
8000 C	Standard Barricades
9000 A	Approaches and Entrance

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

ALBINSON, INC.
MINNEAPOLIS 15 MINN.

Olmsted County, Minnesota. County Proj. No. C-68-10 C-68-11 Plan No. _____ Sheet 2 of 13 Sheets

PLAN — SURVEYED ... PLOTTED ... NOTE BOOK ... ALIGNMENT CHECKED ... NO. ... DATE ... BY ... CHKD. ... STA. ... TO ... NO. OF MAN CHECKED ...

PROFILE — SURVEYED ... PLOTTED ... NOTE BOOK ... GRADES CHECKED ... NO. ... DATE ... BY ... CHKD. ... STA. ... TO ... NO. OF MAN CHECKED ...

CITY DUMP

P.I. 52+68.03
52+68.15

172 Rod (typ)

Block Factory

RIVER

ZUMBRO

P.O.T. 58+39.75

P.O.T. 61+68.45

P.O.T. 66+05.65

Woods & Brush

Ho.

Construct FE Lt. 63+50
F&I 29" Span X 32' CMP-A
F&I 2-29" Span Metal Aprons
(FUTURE)

Construct Drive Lt. 71+50
F&I 18" X 32' CMP
F&I 2-18" Metal Aprons

Const. ℄ Culv. 80+25
F&I 28 1/2" Span X 134' RCP-A Cl. III
F&I 2-28 1/2" Span Concrete Aprons for RCP-A
Place on "C" Bedding

End Bridge 55519
Sta. 60+83.98

Begin Bridge 55519
Sta. 58+26.02

Begin C-68-10
Sta. 56+00

End C-68-10 Sta. 66+00
Begin C-68-11

P.C. 63+99.7

P.I. 68+96.25
Δ 22° 04'
D 2° 5'
T 496.52'
L 980.24
E 47.96

Equation P.T. 73+73.97 =
P.O.T. 73+82.53

P.O.T. 79+39.00

P.O.T. 80+70.09

60'R

75'R

75'R

60'R

Const. FE Rt. 63+50
F&I 29" Span X 32' CMP-A
F&I 2-29" Span Metal Aprons
(FUTURE)

Const. FE Rt. 71+50
F&I 29" Span X 32' CMP-A
F&I 2-29" Span Metal Aprons
(FUTURE)

Const. FE Rt. 75+75
F&I 18" X 32' CMP
F&I 2-18" Metal Aprons
(FUTURE)

Cl. 8 Gr. 2.97 Acres

Cl. 8 Gr 9

Finished ℄ Subgrades

Present ℄ Grades

P.I. 821+00
Elev. 985.00

-0.8%

P.V.C. +94.44444
Elev. 77.84444

P.I. +4444444
Elev. 75.84444
500' V.C.
M = 1.125

P.V.T. +94.44444
Elev. 78.34444

+1.0%

Inlet Elev. 88.7
Outlet Elev. 88.2

Subgrade Treatment:
Excavate 1.0' Below Profile Grade
Sta. 63+25 to Sta. 69+75

3rd. Ave. Approaches

P.I. 6+00
94.4
200' V.C.
M = 0.25

P.I. 9+00
1000.898
400' V.C.
M = 1.233

P.V.C. +00

P.V.T. +00

+1.16%

+2.166%

-0.3%

1000.4

0 5 10

55 60 65 70 75 80

1000 90 80 70 60 950

BRUNING NO. 12 Ind

MADE BY PLAN-PROFILE DEPT. OF THE CHARLES BRUNING COMPANY

OLMSTED COUNTY, MINN. C.S.A.H. 22 Sheet No. 3 of 13 Sheets

Const. FE Lt. 83+00
F&I 18"X 32' CMP
F&I 2-18" Metal Aprons
(FUTURE)

Construt FE Lt. 88+00
F&I 18"X 32' CMP
F&I 2-18" Metal Aprons

Const. FE Lt. T.H. 63
Sta. 88+50 to 89+10
No Culv. Req'd.

Remove F.Ent. Right Sta. 24+30 TH "63
Remove 36" CMP Culv.

Move to Sta. 88+95
Install 36" CMP Culv.

Construct F.Ent. Lt. 101+00
F&I 18"X 32' CMP
F&I 2-18" Metal Aprons.
For CMP

Drive Lt. 108+63
Inpl. 18"X 30' CMP
No Change

Drive Lt. 110+60
Inpl. 18"X 20' CMP
No Change

P.I. 106+03.18
Δ 21° 45'
D 3° 00'
L 725.00
T 366.92
E 34.93

P.O.T. 79+99.0
P.O.T. 80+20.09
P.O.T. 84+02.15
P.O.T. 94+32.97
P.C. 102+36.26
P.T. 109+61.28

60'R
67° 06'
75'R
60' R
R.O.W. Marker
3rd Ave. N.E.
T.H. 63

End Proj. C-68-11
Sta. 94+32.97

Const. FE Rt. 83+00
F&I 18"X 32' CMP
F&I 2-18" Metal Aprons
(FUTURE)

Const. FE Rt. 88+00
F&I 18"X 32' CMP
F&I 2-18" Metal Aprons

24"CMP

Imp. Rd. — Obliterate Old Road

Construct ℄ Culv. 95+00 Skew 13°
F&I 65" Span X 74' RCP Class III
F&I 2-65" Span Conc. Aprons
For SCP
Place on "C" Bedding

Construct F.E. Rt. 100+40
F&I 65" Span X 32' CMP
F&I 2-65" Span Metal Aprons
For CMP

Center Section 24 T107N R14W

PI +50
Elev. 98.9
400' V.C.
M=1.0

PI +00
1012.40
400' V.C.
M=1.05

PI +00
Elev. 20.5
600' V.C.
M=1.05

+1.0%
+3.00%
+0.9%
+2.3%
+1.2% Special Ditch Right

P.V.C. +50 Elev. 95.9
P.V.T. +50 Elev. 01.9
P.V.C.
P.V.T
P.V.C. +00 Elev. 17.8
P.V.T. +00 Elev. 27.4

Inlet Elev. 11.0
Outlet Elev. 10.5

Special Ditch Right +12%

Subgrade Treatment:
Excavate 1.0' Below Profile Grade
From Sta. 97+00 to Sta 109+00

Common Exc. 5201
Subgrade 1810

EMB. 3658

Common Exc. 334
S.G. 385
EMB. 223

PLATE 1 - PLAN-PROFILE O. P. K. & R. R.
MADE AND PRINTED IN U.S.A.
CHARLES BRUNING COMPANY