FORM 100-A '65

Fed. Proj. No.

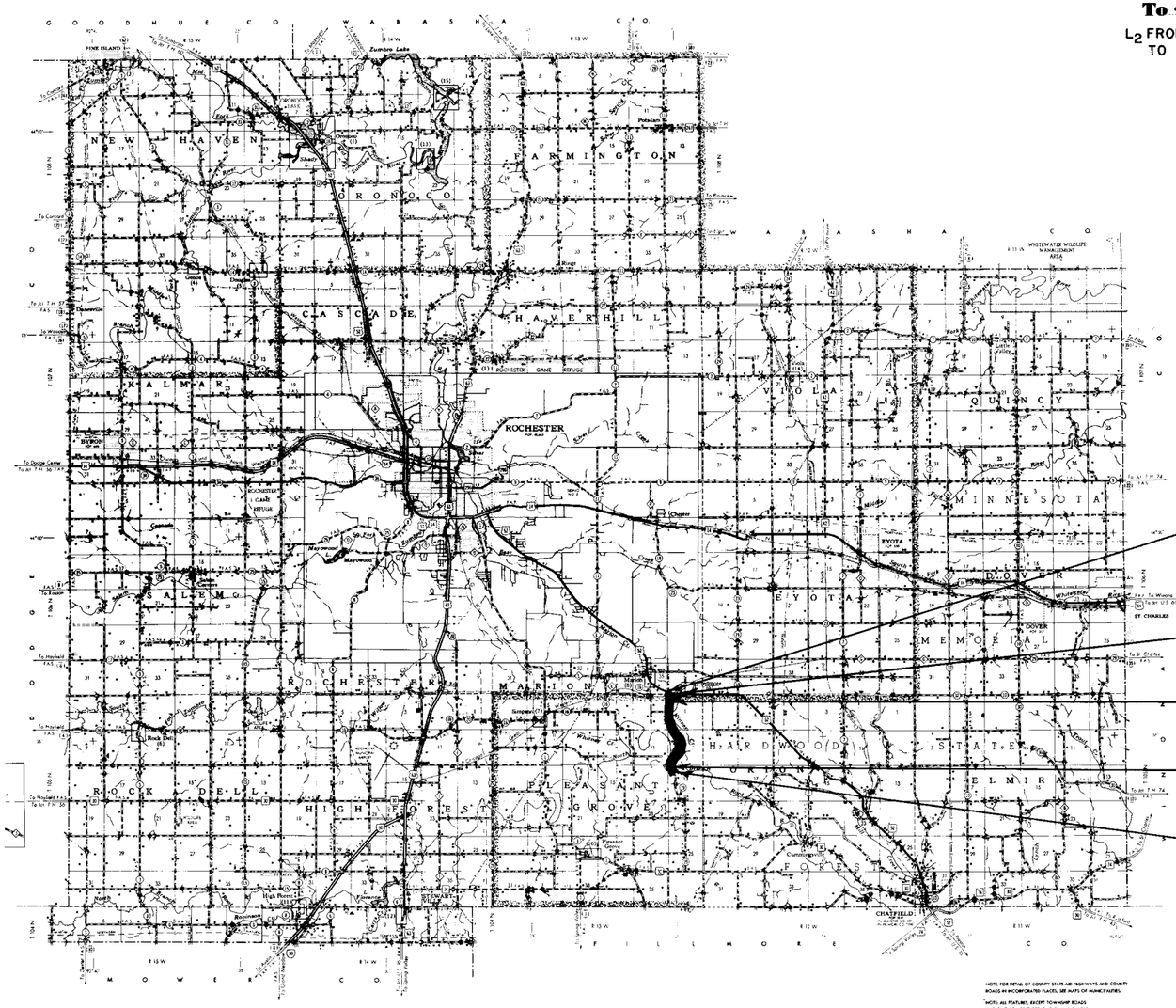
## PLANS SYMBOLS

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
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
SAND PIT
BORROW PIT
ROCK QUARRY

## 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

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




NOTE: FOR DETAIL OF COUNTY STATE AID HIGHWAYS AND COUNTY ROADS IN INCORPORATED PLACES, SEE MAPS OF MUNICIPALITIES.

*NOTE: ALL FEATURES, EXCEPT TOWNSHIP ROADS AND CULTURE, ARE CURRENT AS OF JAN. 1, 1963

# STATE OF MINNESOTA
# DEPARTMENT OF HIGHWAYS

**CONSTRUCTION PLAN FOR** GRADING-BOX CULVERT EXTENSION AND CRUSHED ROCK BASE INPLACE

**COUNTY STATE AID HIGHWAY NO.** 19

**BETWEEN** North Branch ROOT RIVER **AND** T.H. NO. 52

$L_1$ **From** 221.81' East and 4754.36' Northerly of the 1/16 Cor. Sec. 24 T105N-R13W (Give proper reference to Sections, Township and Range)

**To** 418.36' North of the N.W. Cor. Sec. 1 T105N-R13W

$L_2$ FROM 523.26' South of the N.W. Cor. Sec. 1 T105N-R15W
TO 1180.78' North and East of above point.

S.A.P. 55-619-03

| | | | |
|---|---|---|---|
| GROSS LENGTH | 13241.62 | FEET | 2.507 MILES |
| BRIDGES-LENGTH | 152.15 | FEET | 0.028 MILES |
| EXCEPTIONS-LENGTH | 0.00 | FEET | 0.00 MILES |
| NET LENGTH | 13089.47 | FEET | 2.479 MILES |

County Project C-68-4
NET LENGTH 1180.78 FEET 0.223 MILES

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 37 Cross Sections

End SAP 55-619-03
Sta. 287+95.62

County Project C-68-4
End $L_1$ Sta. 290+34.78

County Project C-68-4
Begin $L_1$ Sta. 278+54.0

Bridge Exception Sta. 155+54.0
to Sta. 157+06.15

Begin SAP 55-619-03
Sta. 155+54.0

DESIGN SPEED 50 M.P.H.

PROJECTED A.D.T. 281
PROJECTED HCADT less than 150

7 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.

C. A. Schildhammer COUNTY ENGINEER DATE March 21 1968

Olmsted COUNTY REG. NO. 8284

RECOMMENDED FOR APPROVAL [illegible] Swanson DISTRICT STATE AID ENGINEER 3/21, 1968

RECOMMENDED FOR APPROVAL C.E. Weichselbaum 4-30, 1968

APPROVED 5/1, 1968 Charles M. Gay STATE AID ENGINEER

Minn. Project No. _____ S.A.P. 55-619-03
State Project No. _____

Olmsted County, Minnesota. County Proj. No. _____ Plan No. _____ Sheet 1 of 37 Sheets

ALBINSON, INC.
MINNEAPOLIS, MINN. 55415

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 | SAP 55-619-03 | C-68-4 |
|---|---|---|---|---|---|
| 2101.502 | Clearing | Tree | 118 | 118 | 0 |
| 2101.507 | Grubbing | Tree | 124 | 124 | 0 |
| 2101.501 | Clearing | Acre | 243 | 2.43 | 0 |
| 2101.506 | Grubbing | Acre | 243 | 2.43 | 0 |
| 2104.501 | Remove Portable Culverts | Lin.Ft. | 990 | 936 | 54 |
| 2105.501 | Common Excavation | Cu.Yd. | 81647 | 77578 | 4069 |
| 2105.503 | Rock Excavation | Cu.Yd. | 25054 | 25054 | 0 |
| 2105.505 | Subgrade Excavation | Cu.Yd. | 14097 | 13084 | 1013 |
| * 2211.501 | Aggregate Base Class 2 | Tons | 10488 | 9686 | 802 |
| 2411.501 | Concrete Mix No. 3Y 10 | Cu.Yd. | 10.5 | 10.5 | 0 |
| 2411.501 | Concrete Mix No. 3Y 6 | Cu.Yd. | 9.0 | 9.0 | 0 |
| 2411.511 | Structure Excavation Class U | Cu.Yd. | 35.0 | 35.0 | 0 |
| 2411.541 | Reinforcement Bars | Lb. | 2878 | 2878 | 0 |
| 2501.511 | 18"Metal Pipe Culvert | Lin.Ft. | 646 | 618 | 28 |
| 2501.512 | 18"Span Metal Pipe-Arch Culv. | Lin.Ft. | 32 | 32 | 0 |
| 2501.523 | 24"Concrete Culv. Class 2 | Lin.Ft. | 450 | 380 | 70 |
| 2501.523 | 24"Concrete Culv. Class 3 | Lin.Ft. | 96 | 96 | 0 |
| 2501.523 | 24"Concrete Culv. Class 4 | Lin.Ft. | 102 | 102 | 0 |
| 2501.523 | 30"Concrete Culv. Class 2 | Lin.Ft. | 78 | 78 | 0 |
| 2501.523 | 42"Concrete Culv. Class 4 | Lin.Ft. | 88 | 88 | 0 |
| 2501.532 | 18" Metal Aprons | Apron | 42 | 40 | 2 |
| 2501.533 | 18" Span Metal Aprons | Apron | 2 | 2 | 0 |
| 2501.536 | 24"Concrete Aprons | Apron | 18 | 16 | 2 |
| 2501.536 | 30"Concrete Aprons | Apron | 2 | 2 | 0 |
| 2501.536 | 42"Concrete Aprons | Apron | 2 | 2 | 0 |
| 2511.501 | Random Riprap Class "A" | Cu.Yd. | 100 | 100 | 0 |
| 2130.501 | Water (See Special Provisions) | M. Gal. | 25 | 25 | 0 |

Note Item 2210.526 includes 610 tons for approaches and 245 tons for Twp. Rds.

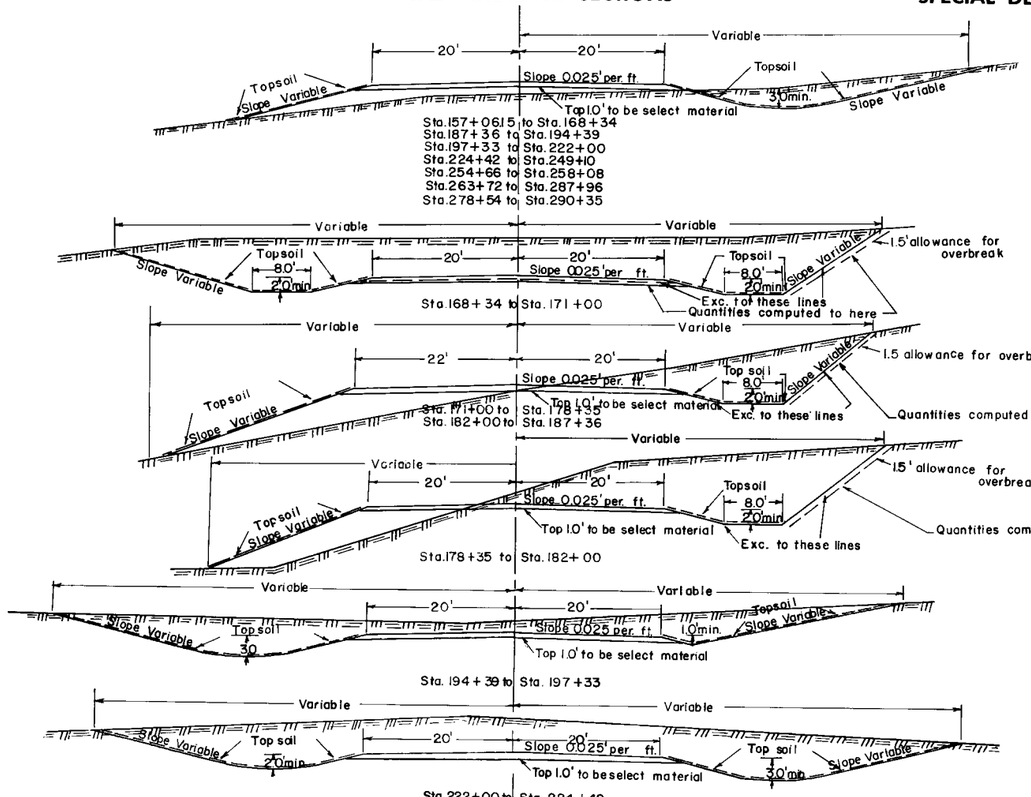
* Aggregate To be furnished by the County (See sheet 3)

## STANDARD PLATES

Standard 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 |
|---|---|
| 3000 E | Reinforced Concrete Pipe |
| 3040 A | Corrugated Metal Pipe Arch |
| 3065 B | Connections Between existing Culv. & new "C" Culv. Barrel |
| 3100 E | Concrete Apron for reinforced concrete pipe |
| 3122 E | Metal Apron for C.M. Pipe-Arch Culvert |
| 3123 E | Metal Apron for CM. Pipe |
| | |
| 9000 A | Approaches and Entrances |
| 0001 A | Spec. Ref. No. for Standard Plates |

## 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 the 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.

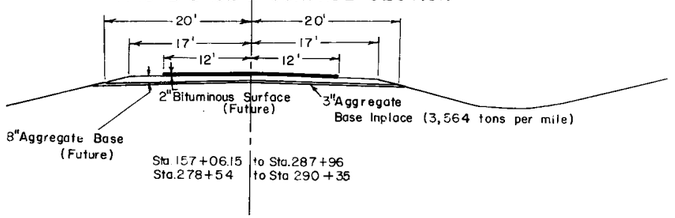
NOTE: Metal and concrete pipe culvert excavation will be considered incidental and will be under unit price for "Furnish and Install Culvert Pipe."

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. Topers shall be 50:1 in all cases.

NOTE: Place Concrete Pipe on Class "C" Bedding

NOTE: All dimensions and slopes shown on typical sections are approximate

## TYPICAL BASE & SURFACE SECTION




H.A.ROGERS CO.
MPLS MINN.

Olmsted County, Minn. C-68-4 Proj. No. 55-619-03 Plan No. _____ Sheet No. 2 of 37 Sheets

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

163+52 FE Lt
No Culv Inpl
F&I 18" X 28' CMP
F&I 2-18" Metal Aprons
For CMP

168+41 Farm Ent Lt
No Culv Inpl
Remove Farm Ent. Lt.

Const. Farm Ent. Lt. 166+90
No Culv. Req'd.

178+05 FE Lt
No Culv Inpl
No Culv. Req'd.

Begin 55-619-03
Sta. 155+54.0

POT. 157+06.15

160+13 Cattle Pass
Inpl W46 X 44'
Extend 6' Lt. & 6' Rt.
Conc. 19.5 Cu. Yds
Reinf. Bars 2,878 lbs.
Cl. U Excavation 35.0 Cu. Yds.

163+23 FE Rt
No Culv Inpl
No Culv. Req'd.

PC. 163+98.6

PI. 171+12.0
Δ Rt 76°31'
D 6°00'
T 753.40'
L 1275.28'

PT. 176+33.88

PC. 176+59.67

176+95 ℄ Culv
Inpl 24" X 40' CMP
Remove & Salvage
F&I 24" X 48' RCP Cl. III
F&I 2-24" Conc. Aprons
For RCP
Place on C Bedding
Place Ditch Block
Place Random Riprap Class "A"
25 Cu. Yds.

PI. 180+59.0
Rt 10°46'
D 30'
359.93'
716.67'

PT. 184+16.52

N49°29'30"E

N28°01'30"W

N59°14'30"E

Begin 55-619-03
Sta. 155+54.0

Sta. 125+00

County Stockpile Site
(Aggregate Class 2)

COUNTY STOCKPILE SITE

Cl. 6 Gr. 4 — Cl. 0.84 Gr. 0.84 — Cl. 3 Gr. 5 — Cl. 0.82 Gr. 0.82

BM Elev. 1054.47'
□ in Wing NW Cor
Bridge 5877

BM Elev. 1112.25'
Spk in TP 25' Rt
Sta. 176+55

Finished Grade

Profile 75' Lt

Profile 75' Rt

P.I. +25.0
Elev. 47.925
240' V.C.
M = 1.44

P.I. +80
Elev. 50.7
400' V.C.
M = 2.0

P.I. +00
Elev. 14.6
400 V.C.
M = 1.250

-4.3%

+0.5 %

+4.5%

+7.0%

P.V.C. +05.0 Elev. 53.085

P.V.T. +45.0 Elev. 48.525

P.V.C. +80.0 Elev. 49.7

P.V.T. +80.0 Elev. 49.7

P.V.C. +00.0 Elev. 286

P.V.T. +00.0 Elev. 10.4

P.V.T. +50.0 Elev. 59.75

Inlet Elev. 40.4
Outlet Elev. 39.7

Inlet Elev. 058
Outlet Elev. 053

EXC 319
EMB 219
Cl. SG 213

EXC 1970
EMB 1355
Cl. SG 914

EXC Common 2354
Rock 1607
EMB 3161
Cl. SG 605

EXC Common 2551
Rock 11,535
EMB 12,762
Cl. SG 68

EXC Common 14,873
Rock 11,715
EMB 20,601
Cl. SG 2,421

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 157+12 to Sta. 168+34

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 171+30 to Sta. 172+20

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 176+80 to Sta. 199+00

| | | | | |

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

PLAN

SURVEYED
PLOTTED
DRAWN
CHECKED
NOTE BOOK
NO

N59°43'30"E 397.37'
PC 186+99.88
Pl. 190+54.87
Δ Lt 40°46'
D 6°00'
T 354.99'
L 679.45'
Woods
+88 +42 +74 +28 +85 +85 +59 +89 +32
150 167.3 45.93' 12.58' 76.36' 50.02' 41.01' 56.71' 64.64' 31.22' 58.4' 53.3' 33.3'
195
N18°28'30"E
Ho.
187+10 Driveway Rt
Inpl 15"X24' CMP
Remove & Salvage
Remove FE
189+28 FE Rt
Inpl 18"X24' CMP
Remove & Salvage
F&I 18"X32' CMP
F&I 2-18" Metal Aprons
For CMP
Move to Sta. 190+70
195+60 FE Lt
No Culv Inpl
F&I 18"X28' CMP
F&I 2-18" Metal Aprons
For CMP
P.T. 193+79.33
P.C. 197+62.90
Pl. 201+16.0
Δ Lt 22°05'
D 3°10'
T 353.10'
L 697.39'
P.T. 204+60.29
P.C. 206+64.78
Pl. 210+27.69
Δ Lt 41°36'
D 6°00'
T 362.91'
L 693.33'
P.T. 213+58.11
N45°12'30"W
Woods
245' 85.59' 76.16' 77.06'
+55 +30 +30
217+98 ℄ Culv
Inpl 24"X48' CMP
Remove & Salvage
F&I 24"X84' RCP Cl.II
F&I 2-24" Conc. Aprons
For RCP
Place on "C" Bedding
216+79 FE Rt
Inpl 15"X26' CMP
Remove & Salvage
No Culv. Req'd.
214+80 FE Rt
No Culv Inpl
F&I 18"X28' CMP
F&I 2-18" Metal Aprons
For CMP
211+99 ℄ Culv
Inpl 24"X46' CMP
Remove & Salvage
F&I 24"X66' RCP Cl. II
F&I 2-24" Conc. Aprons
For RCP
Place on "C" Bedding
Place Ditch Block
F&I Approved Joint Fasteners
See Special Provisions
209+88 FE Rt
No Culv Inpl
F&I 18"X32' CMP
F&I 2-18" Metal Aprons
For CMP
N3°36'30"W
80.56' 5745'
60.42'
69.47'
61.59'
39.11'
200 205 210 60 66 60 60 122.3
Woods
+59 +89 +88 +88 +55 +30 +30
195+76 Farm Ent Rt
Inpl 15"X24' CMP
Remove & Salvage
F&I 18" span X 32' CMP-A
F&I 2-18" Span Metal Aprons
For CMP-A
200+12 ℄ Culv
Inpl 24"X72' CMP
Remove & Salvage
F&I 24"X96' RCP Cl.III
F&I 2-24" Conc. Aprons
For RCP
Place "C" Bedding
F&I Approved Joint Fasteners
See Special Provisions
202+17 FE Rt
Inpl 15"X24' CMP
Remove & Salvage
F&I 18"X32' CMP
F&I 2-18" Metal Aprons
For CMP
204+69 Farm Ent Rt
Inpl 15"X32' CMP
Remove & Salvage
F&I 18"X32' CMP
F&I 2-18" Metal Aprons
For CMP

Cl.7 Gr.8 | Cl.0.09 Gr.0.09 | Cl. 0 Gr.5 | Cl.0.15 Gr. 0.15 | Cl.0.25 Gr 0.25 | Cl. 0.24 Gr.0.24 | Cl. 0 Gr.15

BM Elev. 1186.18'
Spk in PP 32' Rt
Sta. 188+92

BM Elev. 1222.94'
Spk in PP 27' Rt
Sta. 194+82

BM Elev. 1228.93'
Spk in PP 33' Rt
Sta. 205+10

Finished ℄ Grade
Profile 75' Lt
Profile 75' Rt

P.I. +34.28571
Elev. 22.0
900' V.C.
M = 7.875
P.V.C. +84.28571 Elev. 90.49999
P.V.T. +84.28571 Elev. 22.0
+7.0%
+0.0%
P.V.C. +96.43857 Elev. 22.0
P.V.T. +96.43857 Elev. 14.1
Inlet Elev. 14.1
Outlet Elev. 05.1
P.I. +96.42857
Elev. 22.0
500' V.C.
M = 1.75
P.V.T. +96.42857 Elev. 27.59992
+2.8%
P.V.C. +48.93617 Elev. 34.67021
P.I. +48.93617
Elev. 40.27021
400' V.C.
M = 1.1750
P.V.T. +48.93617 Elev. 41.17021
+0.45%
Inlet Elev. 40.0
Outlet Elev. 30.8
Inlet Elev. 38.8
Outlet Elev. 34.0

EXC Common 5781
Rock 197
EMB 4100
Cl.SG 786

EXC 816
EMB 557
Cl.SG 564

EXC 4909
EMB 2936
Cl.SG 1257

Sub grade Treatment
Excavate 10' Below Profile Grade
Sta. 203+40 to Sta. 216+52

1250 40 30 20 10 1200 90 80 1170 1180

72.5 | 76.8 +61 | 79.2 +94 | 79.6 | 82.1 +36 | 86.1 | 88.5 +36 | 92.9 | 1199.9 | 06.8 | 12.9 | 17.9 | 210 +80 | 216 | 22.7 +39 | 1223.7 | 24.5 +60 | 24.7 | 24.5 +53 | 24.1 | 23.7 +33 | 22.6 | 21.9 +52 | 21.5 | 21.0 +41 | 1220.9 | 20.9 +10 | 21.1 +46 | 21.2 | 21.7 +57 | 22.4 | 23.5 +47 | 24.8 | 26.8 +64 | 27.9 | 29.1 +37 | 30.1 +72 | 1280.9 | 32.2 +50 | 33.6 | 34.8 +37 | 36.8 | 37.9 +36 | 39.7 | 41.7 +77 | 42.2 | 42.7 +36 | 1243.4 | 43.6 +56 | 43.7 | 43.7 +53 | 43.9 +98 | 43.9 +44 | 43.9 | 43.8 +68 | 43.6 | 43.4 +53 | 1243.3 | 43.3 +52 | 43.2 | 43.3 +52 | 43.3 | 43.6 +98 | 43.6

190 195 200 205 210 215

State Proj. No. 55-619-03 Sheet No. 4 of 37 Sheets

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

PLAN

3"XS" Limestone

229+98 ℄ Culv
Inpl 24"X46' CMP
Remove & Salvage
F&I 24"X62' RCP Cl. II
F&I 2-24" Conc. Aprons
For RCP
Place on "C" Bedding

223+15 Farm Ent Lt
No Culv Inpl
F&I 18"X32' CMP
F&I 2-18" Metal Aprons
For CMP
Move to Sta. 222+90

220+71 FE Lt
Inpl 15"X24' CMP
Remove & Salvage
F&I 18"X32' CMP
F&I 2-18" Metal Aprons
For CMP
Move to Sta. 219+00

222+69 FE Rt
No Culv Inpl
No Culv. Req'd

236+47 FE Lt
Inpl 15"X26' CMP
Remove & Salvage
F&I 18"X32' CMP
For CMP

Const. FE Lt. 241+00
No Culv. Req'd

246+69 FE Lt
No Culv Inpl
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

247+35 ℄ Culv
Inpl 30"X46' CMP
Remove & Salvage
F&I 30"X 78' RCP Cl. II
F&I 2-30" Conc. Aprons
For RCP
Place on "C" Bedding

Pt 237+58.79
Δ Rt 44°05'
D 6°00'
T 386.8'
L 734.72'

238+65 FE Rt
Inpl 15"X 24' CMP
Remove & Salvage
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

240+83 Farm Ent Rt
No Culv Inpl
F&I 18"X32' CMP
F&I 2-18" Metal Aprons
For CMP

BM Elev. 1239.49'
Spk in PP 36' Rt
Sta. 225+92

BM Elev. 124966'
Spk in PP 8' Rt
Sta. 239+27

Profile 75' Lt
Profile 75' Rt

+4.5% -1.7% +2.2% -2.4% -0.5%

P.V.C.+23.25581 Elev. 46.90465
P.V.T.+23.25581 Elev. 43.50466
P.V.C.+61.53846 Elev. 41.15385
P.I. +61.53846 Elev. 32.65385 800' V.C. M=2.9
P.V.T.+61.53846 Elev. 39.25384
P.V.C.+50.0 Elev. 47.8
P.V.T.+50.0 Elev. 49.5
P.V.C.+78.94736 Elev. 45.81053
P.V.T.+78.94736 Elev. 41.46053

Inlet Elev. 31.45
Outlet Elev. 29.0
Sp. Ditch Rt. +0.3%
Inlet Elev. 36.0
Outlet Elev. 29.5

P.I. +23.25581 Elev. 46.90465 400' V.C. M=1.075
P.I. +50 Elev. 54.4 600' V.C. M=3.45
P.I. +57.83473 Elev. 42.21053 300' V.C. M=0.7125

| | EXC | EMB | Cl. SG |
|---|---|---|---|
| +00 | 2262 | 1561 | 936 |
| +50 | 1014 | 699 | 360 |
| +83 | 978 | 678 | 339 |
| +81 | 3151 | 2171 | 73 |
| +31 | 2582 | 1781 | 534 |
| +76 | 5419 | 3737 | 360 |

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 219+50 to Sta. 226+47

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 228+75 to Sta. 234+70

Subgrade Treatment
Excavate 1.0' Below Profile
Sta. 237+50 to Sta. 243+50

Cl. 0 Gr. 2 / Cl. 0 Gr. 4 | Cl. 6 Gr. 6 | Cl. 6 Gr. 6 | Cl. 7 Gr. 4 | Cl. 46 Gr. 33

Finished Grade

| Sta. | Elev. |
|---|---|
| 219+36 | 44.6 |
| +44.9 | |
| 220+00 | 12456 |
| +61 | 46.5 |
| +20 | 47.1 |
| +74 | 47.4 |
| +17 | 48.1 |
| +52 | 48.2 |
| +84 | 48.4 |
| +37 | 48.0 |
| +42 | 47.8 |
| 225+00 | 46.6 |
| +69 | 45.8 |
| +47 | 42.8 |
| +66 | 42.0 |
| +53 | 40.9 |
| +89 | 39.8 |
| +35 | 38.5 |
| 230+00 | 38.0 |
| +50 | 37.3 |
| +48 | 36.9 |
| +67 | 36.3 |
| +70 | 12368 |
| 235+00 | 56.3 |
| +39 | 36.6 |
| +78 | 37.0 |
| +44 | 37.2 |
| 240+00 | 37.4 |
| +47 | 37.5 |
| +52 | 37.9 |
| +43 | 38.2 |
| +49 | 38.9 |
| +38 | 12393 |
| +78 | 39.5 |
| +47 | 37.7 |
| +34 | 40.4 |
| +69 | 43.1 |
| 245+00 | 38.7 |
| +68 | 40.3 |
| +10 | 41.2 |
| 250+00 | 41.5 |
| +62 | 12439 |
| | 44.8 |
| | 45.0 |

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

PLAN

257+97 Twp Rd Lt
Inpl 15"X46' CMP
Remove & Salvage
F&I 18" X 50' CMP
F&I 2-18" Metal Aprons
For CMP.

266+13 FE Lt
No Culv Inpl
F&I 18"X 28" CMP
F&I 2-18" Metal Aprons
For CMP

271+06 FE Lt
Inpl 15"X 24' CMP
Remove FE
Remove & Salvage

278+31 ℄ Culv +30°
Inpl 24"X66' CMP
Remove & Salvage
F&I 24"X 74' + 30° R.C.P. Cl. II
F&I 2-24" Conc. Aprons
For R.C.P.
Place on "C" Bedding

Const. FE Lt Sta. 281+00
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

P.O.T. 251+21.29

P.O.T. 260+86.46

P.O.T. 276+52.63
Replace Iron Rod

Rt. 278+54.0
Δ Rt 58°30'12"

Chicago

RR Sign

Gravel

Western

Random Riprap
Class "A"

256+16 Double FE Rt
Inpl 15"X62' CMP
Remove & Salvage
No Culv. Req'd

256+77 ℄ Culv
Inpl 42"X72' CMP
Remove & Salvage
F&I 42"X 88' RCP Cl. IV
F&I 2-42" Conc. Aprons
For RCP
Place on "C" Bedding
Place Random Riprap Class "A"
75 Cu. Yds.

Const FE Rt. 258+30
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

267+84 FE Rt
Inpl 15"X 24' CMP
Remove & Salvage
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

272+78 ℄ Culv
Inpl 18"X 32' CMP
Remove & Salvage
F&I 24"X 46' RCP Cl. II
F&I 2-24" Conc. Aprons
For R.C.P.
Place on "C" Bedding
Place Ditch Block

275+45 Farm Ent Rt
Inpl 15"X24' CMP
Remove & Salvage
F&I 18"X32' CMP
F&I 2-18 Metal Aprons
For CMP

Const FE Rt. 281+00
F&I 18"X 28' CMP
F&I 2-18" Metal Aprons
For CMP

Cl. 29 Gr. 27

Cl. 3 Gr. 3

BM Elev. 1241.35'
Spk in PP 32' Rt
Sta. 252+45

BM Elev. 1238.95'
Spk in PP 34' Lt
Sta. 258+52

BM Elev. 1233.34'
Spk in PP 36' Lt
Sta. 268+79

BM Elev. 1222.46'
Spk in PP 34' Lt
Sta. 278+68

Finished ℄ Grade

Profile 75' Lt

Profile 75' Rt

-0.5%

+1.5%

-1.5%

-0.55%

-2.2%

P.V.C.+00.00 Elev. 38.5

P.V.T.+00.00 Elev. 40.5
P.V.C.+01.66666 Elev. 40.52499

P.V.T.+91.66666 Elev. 40.52501

P.V.C.+00.00 Elev. 34.4

P.V.T.+00.00 Elev. 30.3

P.V.C.+00.00 Elev. 27.82.50

P.V.T.+00.00 Elev. 23.7

P.V.C.+60.47619 Elev. 16.86953

Inlet Elev. 27.0
Outlet Elev. 22.5
P.I.+00
Elev. 37.5
400' V.C.
M=1.0

P.I.+96.66666
Elev. 44.95001
590' V.C.
M= 22125

P.I.+00
Elev. 31.4
400' V.C.
M=0.475

26.3 Inlet Elev.
26.0 Outlet Elev.

Inlet Elev. 28.4
Outlet Elev. 21.3

P.I.+00
Elev. 27.0
300' V.C.
M= 0.61875

| | |
|---|---|
| EXC | 28,599 |
| EMB | 19,424 |
| Cl. SG | 3,654 |

Subgrade Treatment
Excavate 1.0' Below Profile Grade
Sta. 248+80 to Sta. 254+75

Subgrade Treatment
Excavate 1.0' Below Profile
Sta. 258+30 to Sta. 281+10

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

PLAN

PI. 283+77.26 Cast Iron Monument
Δ Rt 0°51'

PI. 283+77.26 Cast Iron Monument
Δ Rt 0°51'

N0°16'30"W

+92

Trunk Highway 55

+50

+50

PI. 287+95.62

End SAP 55-619-03
Sta. 287+95.62

285+53 ℄ Culv
Inpl 24"X 60' CMP
Remove & Salvage
F & I 24"X 102' RCP Cl. IV
F & I 2-24" Conc. Aprons
For R.C.P.
Place on "C" Bedding

N0°16'30"W
285
60
33'
33'
60
+36
+50
10°50'
+50

Chicago and Great Western

+95

+86

+31

50'

50'

County
PI. 278+54.0 (Begin Project
Δ Rt 58°30' ℄ C-68-4)

N57°22'30"E
280
285
50
33'
33'
+31

P.O.T. 276+52.63
Inplace Iron Rod

281+84 FE Rt
No Culv Inpl
F & I 18" X 28' CMP
F & I 2-18" Metal Aprons
For CMP

284+18 ℄ Culv
Inpl 24"X54' CMP
Remove & Salvage
F & I 24"X70' RCP Cl. II
F & I 2-24" Conc. Aprons
For R.C.P.
Place on "C" Bedding

P.O.T. 280+21.44
P.O.T. 280+34.78

End County Project C-68-4
Sta. 290 + 34.78

+92

+60

+27

+78

Cl. 5 Gr. 2

BM Elev. 1219.51'
Spk in PP NW of Intersection

BM Elev. 1222.46'
Spk in PP 34' Lt
Sta. 278+68 Lt

BM Elev. 1230.43'
Spk in PP 32' Lt
Sta. 287+24

Finished ℄ Grade

Profile 75' Lt
Profile 75' Rt

-2.2 %
+2.0%
-0.0%

P.V.C. +20.47619 Elev. 16.50943
P.V.I. +25.0 Elev. 16.60000
P.V.T. +760 Elev. 18.1

Inlet Elev. 02.5
Outlet Elev. 97.0

P.I. +40.47619
Elev. 12.90953
360' V.C.
M= 1.89

P.I. +00
Elev. 18.1
150' V.C.
M=0.375

+95.62

Subgrade Treatment
Excavate 1.0 Below Profile Grade
Sta. 287+20. to Sta. 287+85.

+0.3 %
+0.8%

P.V.C. +00 Elev.
P.V.I. +00 Elev.

Inlet Elev. 23.0
Outlet Elev. 20.0
P.I. +00
Elev. 27.8
400' V.C.
M=0.25

+54
+57
+35

EXC 1582
EMB 1091
Cl. SG 447

EXC 2487
EMB 1695
Cl. SG 566

1250
40
30
20
10
1200
90
80
1170

10.7 +46 09.0 07.7 07.3 +43 1207.5 08.6 +53 10.2 11.8 +33 14.0 +74 15.6 18.2 +46 18.9 +64 19.2 +95.5 19.1 +95.6

285

27.6 28.0 28.0 +42 1228.0 27.9 +29 28.0 +68 28.0 +31 27.8 27.5 +69 27.4 27.5 +57 27.5 +18 27.9 1228.9 29.4 +38 30.2 31.6 +44 32.3 33.0 33.5 +50 33.9 34.1 +50 34.3 +77 123.44 +21.5 34.3 +34.78

280 285 290

S.A.P. 55-619-03

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