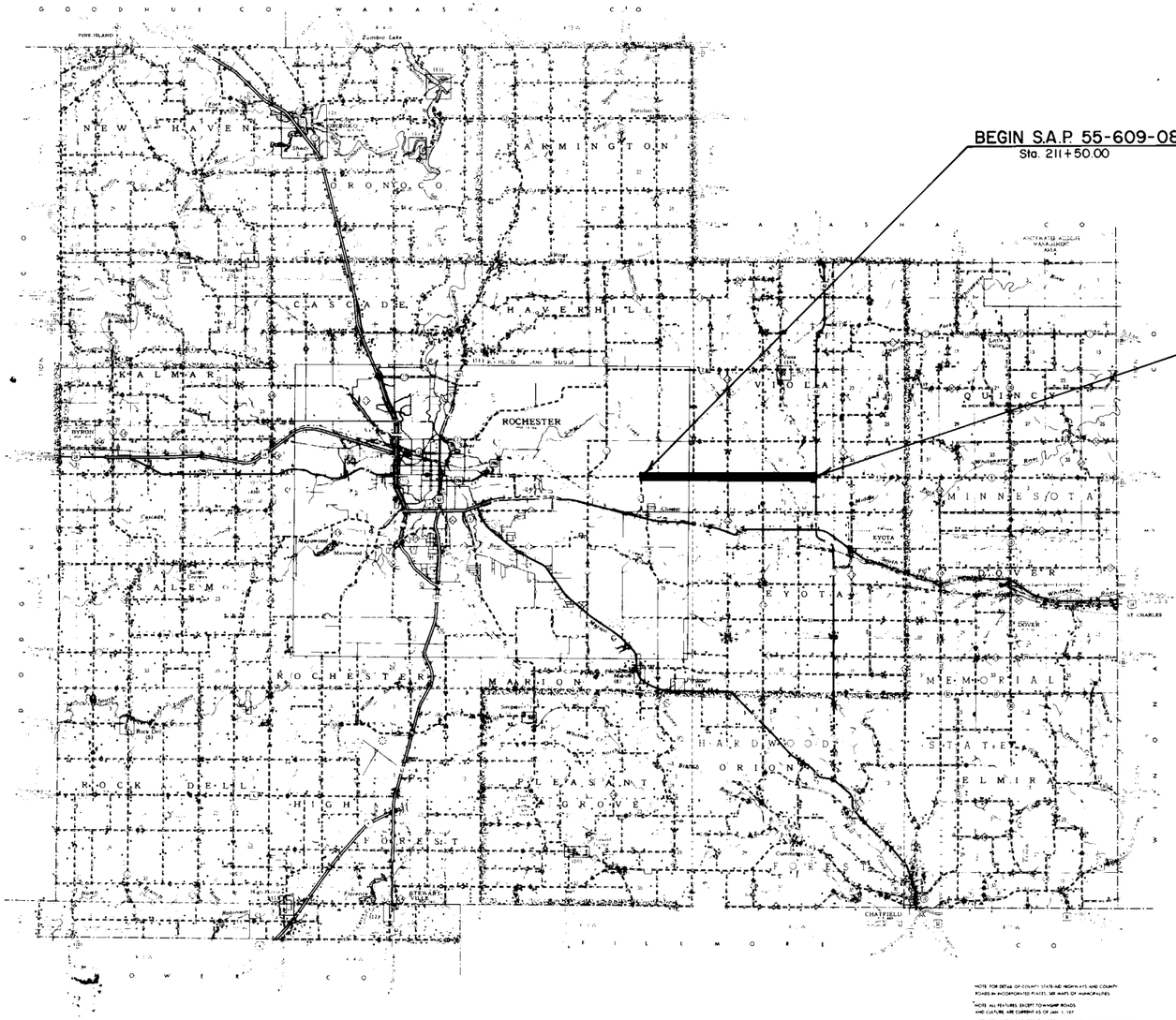
FORM 100-A '65

## 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
DRY RUN
DRAINAGE DITCH
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
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




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, 197

Fed. Proj. No.

**STATE OF MINNESOTA**

# DEPARTMENT OF HIGHWAYS

**CONSTRUCTION PLAN FOR** Concrete Paving & Aggregate Base

**COUNTY STATE AID HIGHWAY NO.** 9

**BETWEEN** C.R. 119 **AND** T.H. 42

**From** 53.50' West S1/4 Corner Sec. 35 T107N-R13W
Give proper reference to Sections, Township and Range

**To** 30.62' East S1/4 Corner Sec. 34 T107N-R12W

| | | | |
|---|---|---|---|
| **GROSS LENGTH** | 26,355.94 | **FEET** | 4.992 **MILES** |
| **BRIDGES-LENGTH** | 0 | **FEET** | 0 **MILES** |
| **EXCEPTIONS-LENGTH** | 0 | **FEET** | 0 **MILES** |
| **NET LENGTH** | 26,355.94 | **FEET** | 4.992 **MILES** |

**INDEX OF SHEETS**

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

**DESIGN SPEED** 55 **M. P. H.**

**PROJECTED A. D. T.** 2,990

9 **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.

Cole Schellhammer DATE 1/7/74
COUNTY ENGINEER

Olmsted COUNTY REG. NO. 8284

RECOMMENDED FOR APPROVAL Robert Peterson 1-7 19 74
DISTRICT STATE AID ENGINEER

RECOMMENDED FOR APPROVAL Irving J. Solon 1-15 19 74

APPROVED 1-14 19 74 L. H. Hill
STATE AID ENGINEER

**— SPECIFICATIONS —**

**STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION**
DATED JANUARY 1, 1972, AS AMENDED BY SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 1, 1974 SHALL GOVERN.

Minn. Project No. _____ S.A.P. 55-609-08
State Project No. _____

Olmsted County, Minnesota. County Proj. No. _____ Plan No. _____ Sheet 1 of 7 Sheets

ALBINSON, INC.

## ESTIMATED QUANTITIES

| SPECIFICATION NO. | ITEM | UNIT | MUNICIPAL | RURAL | TOTAL ESTIMATED QUANTITIES | |
|---|---|---|---|---|---|---|
| 2021.501 | Mobilization | Lump Sum | | 1 | 1 | (P) |
| 2112.501 | Subgrade Preparation | Road Station | | 40 | 40 | |
| 2211.501 | **Aggregate Base Class 2** | **Ton** | | 15,004 | 15,004 | |
| 2301.501 | Concrete Pavement | Square Yard | | 70,200 | 70,200 | (P) |
| 2301.511 | Structural Concrete | Cubic Yard | | 12,636 | 12,636 | (P) |

**(P) Plan Quantity**

## CONSTRUCTION NOTES

### GRADES

THE CENTERLINE GRADE FOR PAVING WILL BE ESTABLISHED AND CONSTRUCTED BY THE OLMSTED COUNTY HIGHWAY DEPARTMENT

### JOINTS

ALL CONTRACTION JOINTS, ALL LONGITUDINAL JOINTS, PERMANENT HEADER JOINTS AT BEGINNING OF PROJECT, PERMANENT HEADER JOINT AT Sta 474+83.94 AND EXPANSION JOINTS AT STA. 458+46.5 AND STA 458+55.5 WILL BE INCIDENTAL TO ITEM NO. 2301.501 CONCRETE PAVEMENT AND NO DIRECT COMPENSATION WILL BE MADE THEREFOR.

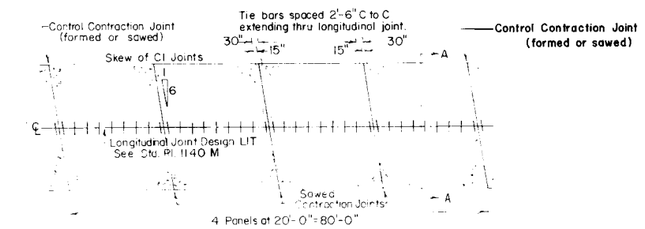
THE CENTERLINE JOINT (LONGITUDINAL) SHALL BE SAWED.

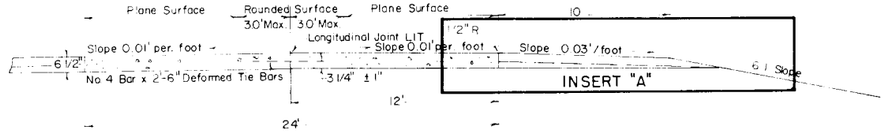
### REINFORCED PANEL OVER CENTERLINE CULVERTS

REINFORCED CONCRETE PANELS OF THE LENGTH INDICATED AT LOCATIONS LISTED BELOW SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD DETAIL PLATE NOTED IN THE PLANS, MODIFIED TO THE EXTENT THAT A DOWELED TRANSVERSE JOINT WILL NOT BE REQUIRED.

REINFORCED PANELS WILL BE INCIDENTAL TO ITEM NO. 2301.501 CONCRETE PAVEMENT AND NO DIRECT COMPENSATION WILL BE MADE THEREFORE.

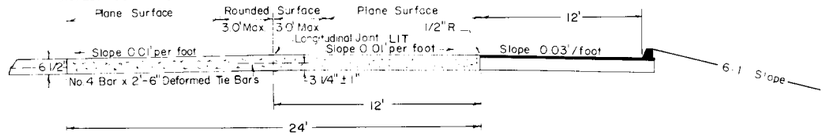
| | | | | |
|---|---|---|---|---|
| STATION | 217+07 | 20' PANEL | 313+55 | 20' PANEL |
| | 227+00 | 20' PANEL | 338+54 | 20' PANEL |
| | 240+60 | 40' PANEL | 355+00 | 20' PANEL |
| | 260+09 | 20' PANEL | 377+52 | 20' PANEL |
| | 264+50 | 20' PANEL | 404+15 | 20' PANEL |
| | 271+10 | 40' PANEL | 415+20 | 20' PANEL |
| | 278+11 | 20' PANEL | 432+63 | 20' PANEL |
| | 290+75 | 20' PANEL | 458+24 | 20' PANEL |
| | 291+81 | 20' PANEL | 458+79 | 20' PANEL |
| | 304+81 | 20' PANEL | | |



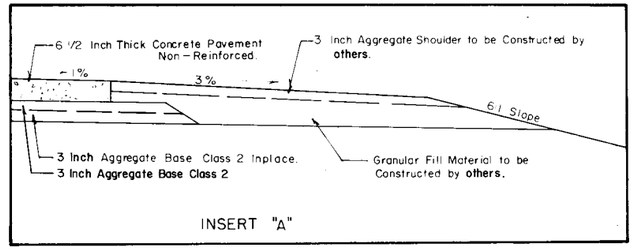

SECTION A-A

Sta 212+03.4 to Sta. 236+00
Sta. 237+50 to Sta. 298+55
Sta. 301+26 to Sta. 327+00
Sta. 330+00 to Sta. 475+05.9




SECTION A-A

Sta. 236+00 to Sta. 237+50
Sta. 298+55 to Sta. 301+26
Sta. 325+00 to Sta. 330+00

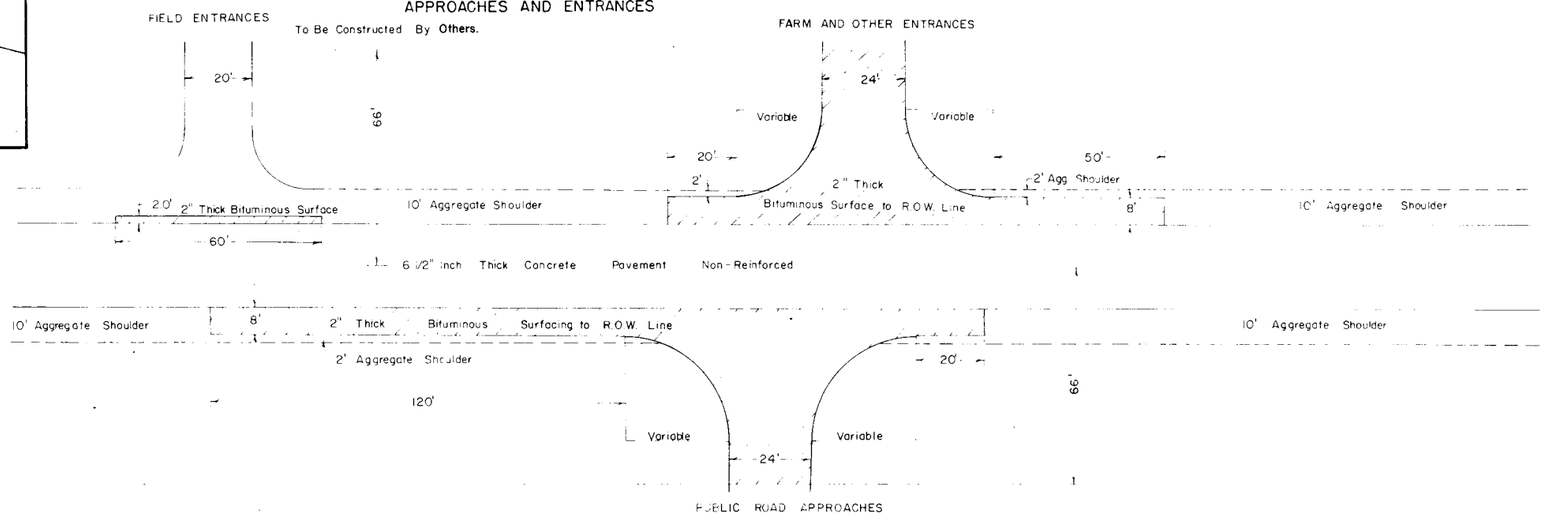



## STANDARD PLATES

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

| PLATE NO. | DESCRIPTION |
|---|---|
| 0002 A | SPECIFICATION REFERENCE TO STANDARD PLATES |
| 1016 D | CONCRETE PAVEMENTS NON-REINFORCED |
| 1070 G | REINFORCED PANEL OVER CULVERTS |
| 1120 M | CONTRACTION JOINT DESIGN "C" |
| 1140 M | LONGITUDINAL JOINTS DESIGN "L" |
| 1150 M | CONSTRUCTION OF HEADER JOINTS |
| 1210 E | CONCRETE PAVEMENT ADJACENT TO RAILWAY CROSSING |
| 8000 F | STANDARD BARRICADES |

## APPROACHES AND ENTRANCES




County Proj. No. _____

S.A.P. 55-609-08

OLMSTED County, Minnesota Sheet 2 of 7 Sheets

Res. Drive Lt. 213+79
2" Bituminous Approach and
Rt. Turn Lane
See Detail Sheet No. 2

℄ Culv. 217+07
Inpl. 24" X 76' RCP
Place 20' Reinforced
Panel over Culvert

℄ Culv. 227+00
Inpl. 24" X 76' RCP
Place 20' Reinforced
Panel over Culvert

C.R. 119 Lt. 238+37
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

Res. Drive Lt. 240+15
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

P.I. 212+03.46

S.A.P. 55-609-08
Sta. 211+50.00

+79

10' Aggregate Shoulder

24' Concrete Pavement Standard Width Non-Reinforced

10' Aggregate Shoulder

+37 C.R. 119

+15

210 215 220 225 230 235 240

NOTE: Sta. 211+50.00 Construct
Permanent Header Joint
See Standard Plate 1150 M

+04 C.R. 119

C.R. 119 Rt. 212+04
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

FE Rt. 219+44
2" Bituminous Approach
See Detail Sheet No. 2

+94

Res. Drive Rt. 221+97
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

+97

FE Rt. 231+05
2" Bituminous Approach
See Detail Sheet No. 2

+05

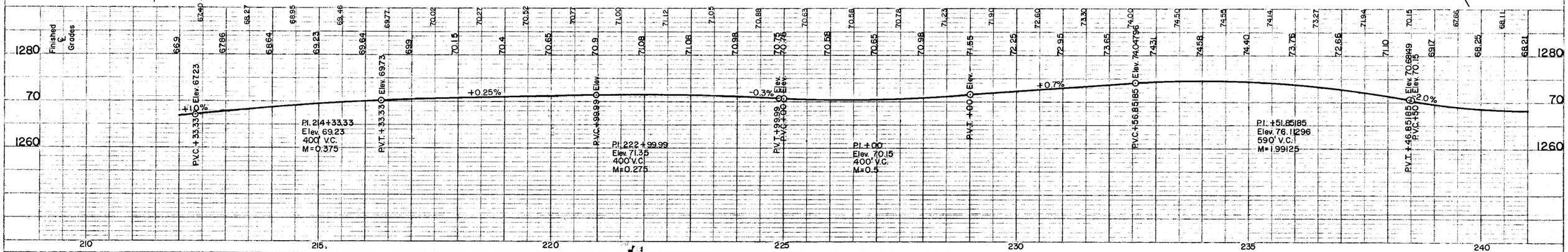
Res. Drive Rt. 234+84
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

+84

Res. Drive Rt. 237+48
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

+48

P.I. 238+35.84




℄ Culv. 240+60
Inpl. 30" X 90' RCP
Place 40' Reinforced
Panel over Culvert

FE Lt. 251+45
2" Bituminous Approach
See Detail Sheet No. 2

P.O.T. 253+99.06

FE Lt. 258+66
2" Bituminous
Approach
See Detail Sheet
No. 2

℄ Culv. 260+09
Inpl. 24" X 76' RCP
Place 20' Reinforced
Panel over Culvert

Res. Drive Lt. 260+52
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

℄ Culv. 264+50
Inpl. 48" X 60" X 72' Timber Box
Place 20' Reinforced
Panel over Culvert

P.I. 265+01.49

Res. Drive Lt. 261+83
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

FE Lt. 265+08
2" Bituminous Approach

See Detail Sheet No. 2

+15

10' Aggregate Shoulder

+45

+52

+83

+65

+81

+1

240 245 250 255 260 265 270

10' Aggregate Shoulder

24' Concrete Pavement Standard Width Non-Reinforced

+20

+45

+60

+63

+18

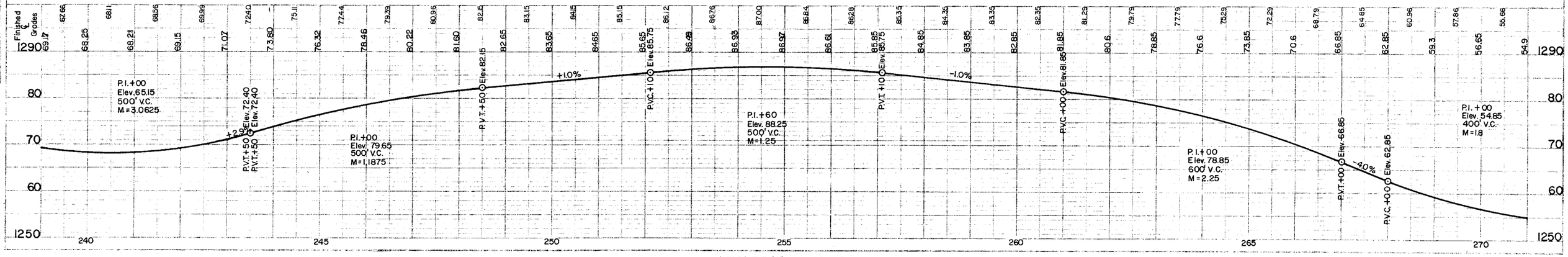
Res. Drive Rt. 246+20
2" Bituminous Approach & Rt. Turn Lane
See Detail Sheet No. 2

FE Rt. 251+45
2" Bituminous Approach
See Detail Sheet No. 2

FE Rt. 258+20
2" Bituminous Approach
See Detail Sheet No. 2

FE Rt. 261+65
2" Bituminous Approach
See Detail Sheet No. 2

FE Rt. 265+18
2" Bituminous Approach
See Detail Sheet No. 2



℄ Culv. 271+10
Inpl. 30" X 90' RCP
Place 40' Reinforced
Panel over Culvert

FE Lt. 277+85
2" Bituminous Approach
See Detail Sheet No. 2

℄ Culv. 278+11
Inpl. 30" X 86' RCP
Place 20' Reinforced
Panel over Culvert

N

P.O.T. 285+81.02

Res. Drive Lt. 290+17
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

Twp. Rd. Lt. 291+29
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

P.I. 291+29.82

Twp. Rd. + 29

℄ Culv. 291+81
Inpl. 24" X 86' RCP
Place 20' Reinforced
Panel over Culvert

FE Lt. 293+76
2" Bituminous Approach
See Detail Sheet No. 2

Res. Drive Lt. 299+21
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

P.O.T. 300+00

10' Aggregate Shoulder

24' Concrete Pavement Standard Width Non-Reinforced

10' Aggregate Shoulder

Res. Drive Rt. 286+32
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

℄ Culv. 290+75
Inpl. 48" X 60" X 82' Timber Box
Place 20' Reinforced
Panel over Culvert

FE Rt. 291+45
2" Bituminous Approach
See Detail Sheet No. 2

Finished ℄ Grades

P.I. +00
Elev. 54.85
400' V.C.
M=1.8

P.V.T. +00 Elev. 54.85

-0.4%

P.V.C. +45.83333 Elev. 51.86667

P.I. +45.83333
Elev. 51.06667
400' V.C.
M=1.80

P.V.T. +45.83333 Elev. 51.26667

+3.2%

P.V.C. +00 Elev. 57.46666

P.I. +00
Elev. 72.0
800' V.C.
M=4.0

P.V.T. +00 Elev. 68.8

-0.8%

P.V.C. +00 Elev. 67.6

P.I. +00
Elev. 65.6
500' V.C.
M=3.0

P.V.T. +00 Elev. 75.6

+4.0%

P.V.C. +00 Elev. 75.6

P.I. +00
Elev. 89.6
700' V.C.
M=3.85

P.O.T. 300+00

Res. Drive Lt. 300+45
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

℄ Culv. 304+81
Inpl. 24" X 90' RCP
Place 20' Reinforced
Panel over Culvert

FE Lt. 306+25
2" Bituminous Approach
See Detail Sheet No. 2

Res. Drive Lt. 310+38
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

Res. Drive Lt. 311+42
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

P.I. 316+31.35

FE Lt. 312+94
2" Bituminous Approach
See Detail Sheet No. 2

℄ Culv. 313+55
Inpl. 24" X 68' RCP
Place 20' Reinforced
Panel over Culvert

Res. Drive Lt. 326+99
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

10' Aggregate Shoulder

24' Concrete Pavement Standard Width Non-Reinforced

10' Aggregate Shoulder

FE Rt. 304+23
2" Bituminous Approach
See Detail Sheet No. 2

FE Rt. 316+25
2" Bituminous Approach
See Detail Sheet No. 2

FE Rt. 326+99
2" Bituminous Approach
See Detail Sheet No. 2

FE Rt. 329+70
2" Bituminous Approach
See Detail Sheet No. 2

Finished ℄ Grades

P.I. +00
Elev. 89.6
700' V.C.
M=3.85

P.V.T. +00 Elev. 89.6

+0.4%

P.V.C. +00 Elev. 87.6

P.I. +00
Elev. 86.8
400' V.C.
M=0.35

P.V.T. +00 Elev. 88.2

P.V.C. +00 Elev. 87.6

+0.3%

P.V.T. +00 Elev. 87.4

P.V.C. +18.75 Elev. 88.66

P.I. +18.75
Elev. 89.25625
400' V.C.
M=0.4

P.V.T. +18.75 Elev. 91.46

+1.1%

P.V.C. +08.33333 Elev. 03.44

P.I. +08.33333
Elev. 05.64163
400' V.C.
M=0.9

FLATE 2 - PLAN - PROFILE - O. P. A. & R. L. STANDARD
KEUFFEL & ESSER CO., NEW YORK

OLMSTED COUNTY, MINN.

℄ Culv. 338+54
Inpl. 24" X 70' RCP
Place 20' Reinforced
Panel over Culvert

P.I. 342+74.98

C.R. 102 +75

C.R. 102 Lt. 342+75
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

℄ Culv. 355+00
Inpl. 28" Span X 66' RCP-A
Place 20' Reinforced
Panel over Culvert

10' Aggregate Shoulder

24' Concrete Pavement Standard Width Non-Reinforced

10' Aggregate Shoulder

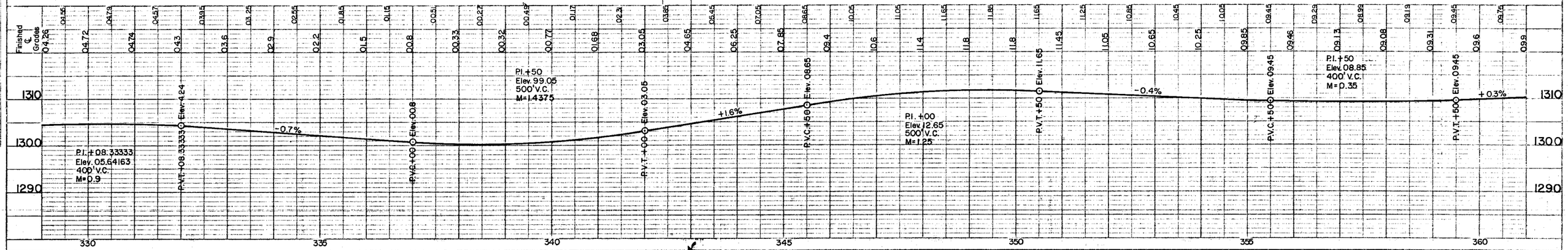
+70

C.R. 102 +75

C.R. 102 Rt. 342+75
2" Bituminous Approach
and Rt. Turn Lane

+89

Res. Drive 352+89
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2




P.I. 369+16.30

FE Lt 369+05
2" Bituminous Approach
See Detail Sheet No. 2

℄ Culv. 377+52
Inpl. 30" X 78' RCP
Place 20' Reinforced
Panel over Culvert

FE Lt 380+64
2" Bituminous Approach
See Detail Sheet No. 2

Res. Drive Lt. 384+47
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

10' Aggregate Shoulder

24' Concrete Pavement Standard Width Non-Reinforced

10' Aggregate Shoulder

+05 +25 +49 +34 +64 +47 +82 +89

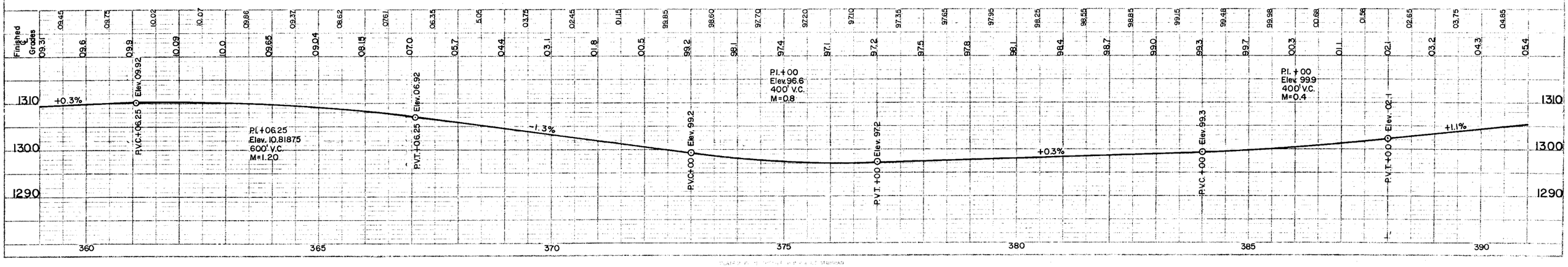
FE Rt. 369+25
2" Bituminous Approach
See Detail Sheet No. 2

FE Rt. 373+49
2" Bituminous Approach
See Detail Sheet No. 2

Res. Drive Rt. 376+34
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

FE Rt. 382+82
2" Bituminous Approach
See Detail Sheet No. 2

FE Rt. 387+89
2" Bituminous Approach
See Detail Sheet No. 2



Twp. Rd. Lt. 395+59
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

Twp. Rd. +59

P.I. 395+56.18

Res. Drive Lt 401+42
2" Bituminoss Approach
and Rt. Turn Lane
See Detail Sheet No. 2

FE Lt 403+00
2" Bituminous Approach
See Detail Sheet No. 2

℄ Culv. 404+15
Inpl. 24" X 72' RCP
Place 20' Reinforced
Panel over Culvert

Res. Drive Lt. 407+25
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

℄ Culv. 415+20
Inpl. 24" X 84' RCP
Place 20' Reinforced
Panel over Culvert

FE Lt. 418+91
2" Bituminous Approach
See Detail Sheet No. 2

+32 +00 +25 +91

10' Aggregate Shoulder

24' Concrete Pavement Standard Width Non-Reinforced

390 395 400 405 410 415 420

10' Aggregate Shoulder

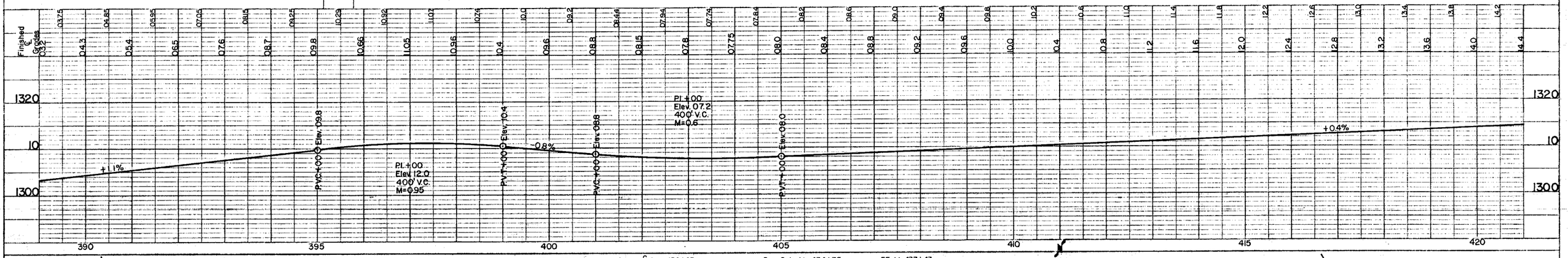
+99 +63 +65

Twp. Rd. Rt. 395+56
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

Twp. Rd. +56

FE Rt. 401+99
2" Bituminous Approach
See Detail Sheet No. 2

FE Rt. 408+63
2" Bituminous Approach
See Detail Sheet No. 2




P.O.T. 421+94.58

Res. Drive Lt. 421+80
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

FE Lt. 431+19
2" Bituminous Approach
See Detail Sheet No. 2

℄ Culv. 432+63
Inpl. 24" X 76' RCP
Place 20' Reinforced
Panel over Culvert

Res. Drive Lt 434+72
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

FE Lt. 437+43
2" Bituminous Approach
See Detail Sheet No. 2

P.I. 448+26.64

+56 +19 +72 +43

10' Aggregate Shoulder

24' Concrete Pavement Standard Width Non-Reinforced

420 425 430 435 440 445 450

10' Aggregate Shoulder

+65 +88 +33 +39

FE Rt. 421+65
2" Bituminous Approach
See Detail Sheet No. 2

FE Rt. 434+88
2" Bituminous Approach
See Detail Sheet No.2

FE Rt. 438+33
2" Bituminous Approach
See Detail Sheet No. 2

Res. Drive Rt. 441+39
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

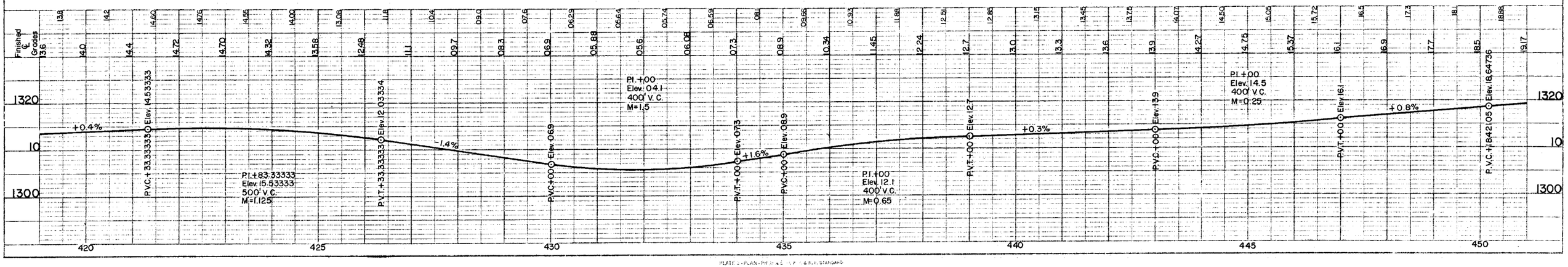



PLATE 2 - PLAN - PROFILE OF P. C. & R. R. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

F.E. Lt. 457+67
2" Bituminous Approach
See Detail Sheet No. 2

℄ Culv. 458+24
Inpl. 24" X 72' RCP
Place 20' Reinforced
Panel over Culvert

℄ Culv. 458+79
Inpl. 24" X 72' RCP
Place 20' Reinforced
Panel over Culvert

NOTE: Sta. 474+8394
Construct Permanent Header Joint
See Standard Plate 1150M

P.O.T. 473+31.17

P.O.T. 475+05.94

S.A.P. 55-609-08
Sta. 475+05.94

10' Aggregate Shoulder

24' Concrete Pavement Standard Width Non-Reinforced

10' Aggregate Shoulder

NORTHWESTERN

CHICAGO AND

C.S.A.H. 9

T.H. 42

NOTE: Sta. 458+46.5 and Sta. 458+55.5
Construct Concrete Pavement
adjacent to Railroad Crossing
See Standard Plate 1210E
(Intermediate Type)

F.E. Rt. 457+92
2" Bituminous Approach
See Detail Sheet No. 2

F.E. Rt. 469+72
2" Bituminous Approach
See Detail Sheet No. 2

Res. Drive Rt. 473+09
2" Bituminous Approach
and Rt. Turn Lane
See Detail Sheet No. 2

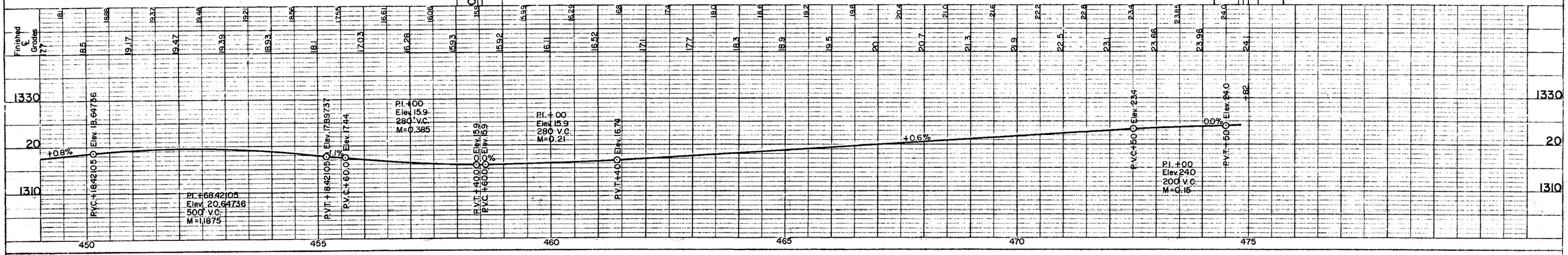



PLATE 2 (PLAN-PROFILE) U.P.W.&R.E. STANDARD
FELTER & ROE CO., NEW YORK