

#4033

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1930

1/18

S.H. (I.C.H.) 438 SEC. E
OTTAWA COUNTY

STATE OF OHIO DEPARTMENT OF HIGHWAYS BONO-PORT CLINTON ROAD

S.H. (I.C.H.) 438 SEC. E PET. NO. 6848
OTTAWA COUNTY
-ERIE TWP. 1930

The Standard Specifications of the STATE OF OHIO, Department of Highways, in force on date of contract will govern this improvement.

I hereby approve these plans and declare that the making of this improvement will require the closing of traffic of the highway and that detours will be provided as shown on the plans and estimates. Necessary right-of-way has been provided.

Approved: Karl E. Wadewick
Date: 7-1-30 Resident District Deputy Director

Approved: John F. Hallis
Date: 8-5-30 Resident Division Deputy Director

Approved: H.P. Chapman
Date: 8-7-30 Chief Engineer Bureau of Construction

Approved: _____
Date: _____ Chief Engineer Bureau of Maintenance

Approved: _____
Date: _____ Chief Engineer Bureau of Bridges

Approved: F.L. Raschig
Date: 8-7-30 Chief Engineer and First Assistant Director

Approved: Robert T. Wain
Date: 8-7-30 Director of Highways

Recommended for Approval: _____
Date: _____ District Engineer Bureau of Public Roads

Recommended for Approval: _____
Date: _____ Chief Engineer Bureau of Public Roads

Approved: _____
Date: _____ Chief of Bureau

Checked: R.W. Van Ates 8-13-30

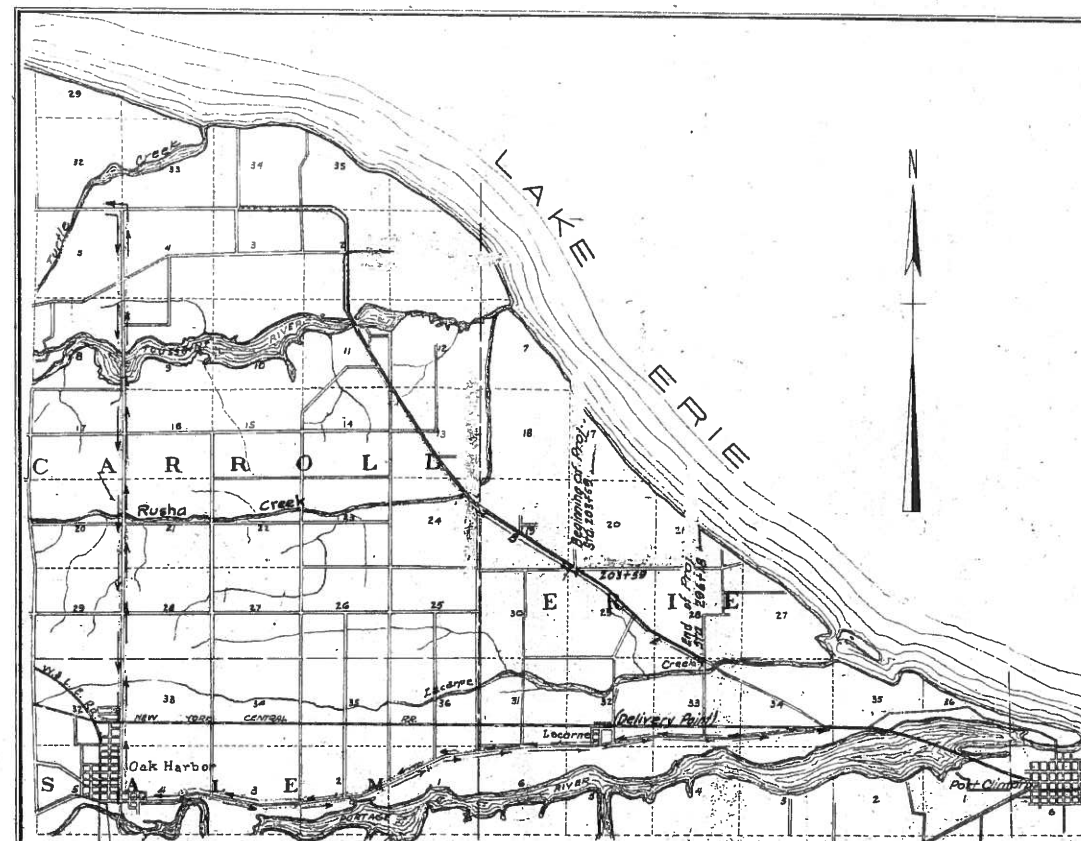
CONVENTIONAL SIGNS

- State Line _____
- County Line _____
- Township Line _____
- Section Line _____
- Property Line not fenced _____
- Center Line _____
- City or Village Line _____
- Fence _____
- Telephone or Telegraph _____
- Steam Railroad _____
- Electric Line _____
- Guard Rail _____
- Drain Pipe - new _____
- Drain Pipe - old _____

We, the Commissioners of Ottawa County, hereby approve these plans and certify that the right-of-way 60 feet wide is available for the construction, maintenance and repair of the above highway.

Date 7/5/30 County Commissioners

OTAWA - 438 - E
1930



LOCATION PLAN

SCALE OF MILES

- PORTION TO BE IMPROVED _____
- DETOURS SHOWN THUS _____
- IMPROVED ROADS _____

SCALES

- Plan 1"=100'
- Profile (Vertical) 1"=10'
- Profile (Horizontal) 1"=100'
- Cross Sections 1"=5'

INDEX

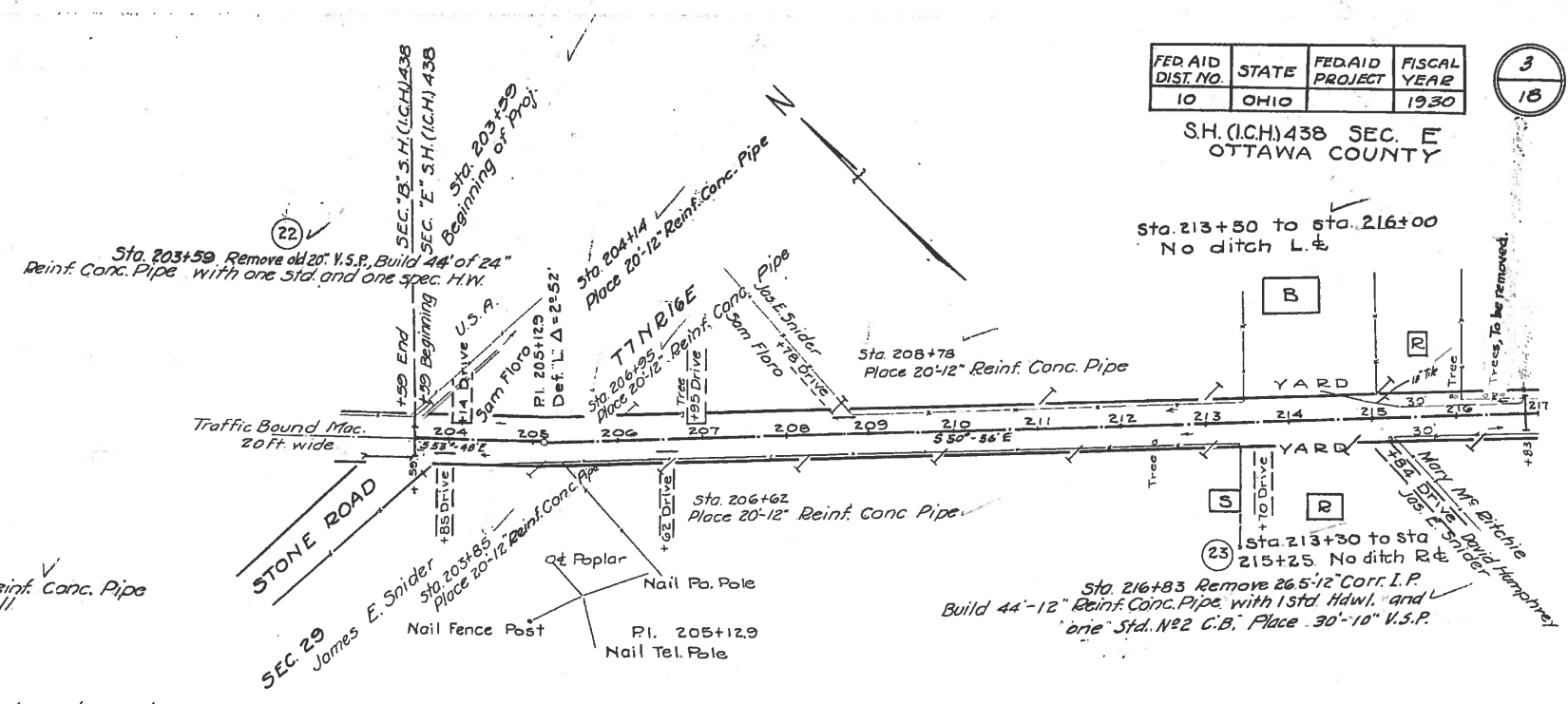
- Title Page - p. 1
- Typical Cross Section - p. 2
- Plans and Profile - p. 3-6
- Cross Sections - p. 7-12
- Structural Plans - p. 13-15
- Summary Sheet - p. 16
- Widening Tables - p. 17
- Special Details - p. 17

SUPPLEMENTAL PRINTS OF STRUCTURAL STANDARDS
DRAWING NUMBERS 95, 96, 98, 300, 4305

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3
18

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Sta. 203+07 Build 12"x6' Reinf. Conc. Pipe
Culx. with one Special H. Wall

Sta. 203+59
5 tons #46 loose stone or slag
to be spread evenly 8" thick on traveled
roadway of approach.

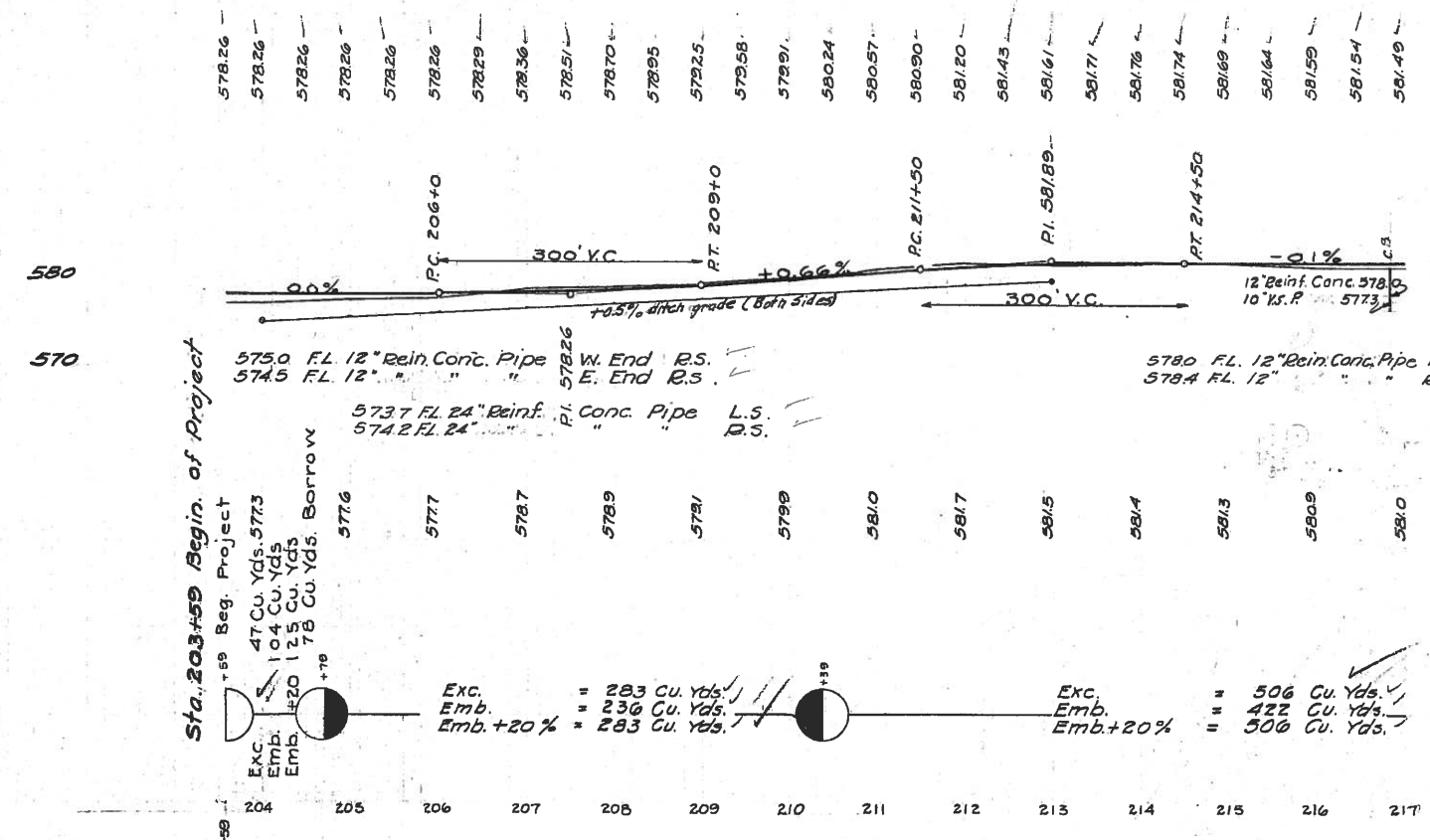
B.M. Sta. 201+08
R.R. Spk. in P. Pole L. of R.
Ele. 577.42

Curve Data
Δ 2°-52'
D 2°-00'
T 71.68'
R 2364.78'
L 143.33'
P.C. Sta. 204+41.22
P.T. Sta. 205+04.55
No Correction
No extra pavement.

B.M. Sta. 211+56
R.R. Spk. in P. Pole R. of R.
Ele. 581.38

Note: 10" Tile outlet in place on left
Sta. 216+83 to north are in good condition.
No work required.

Note: Grade line shown is crown
of finished pavement.



575.0 FL 12" Rein. Conc. Pipe W. End R.S.
574.5 FL 12" " " " E. End R.S.
573.7 FL 24" Rein. Conc. Pipe L.S.
574.2 FL 24" " " " R.S.

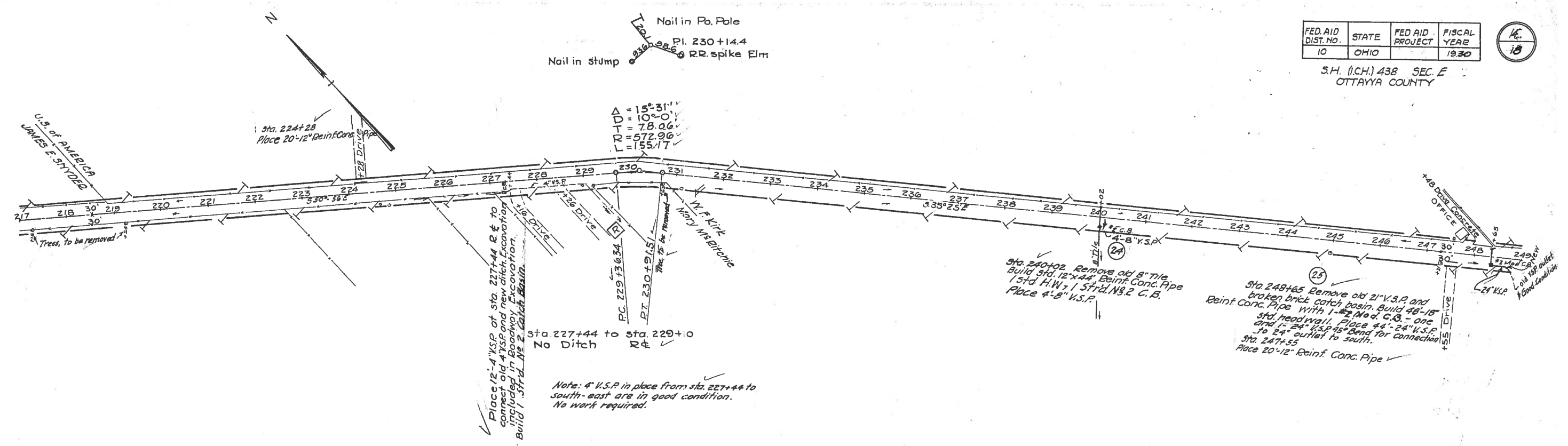
Sta. 203+59 Begin. of Project
Exc. = 47 Cu. Yds. 5773
Emb. = 104 Cu. Yds.
Borrow = 20 78 Cu. Yds.
5776

Exc. = 283 Cu. Yds.
Emb. = 230 Cu. Yds.
Emb.+20% = 283 Cu. Yds.
Exc. = 506 Cu. Yds.
Emb. = 422 Cu. Yds.
Emb.+20% = 506 Cu. Yds.

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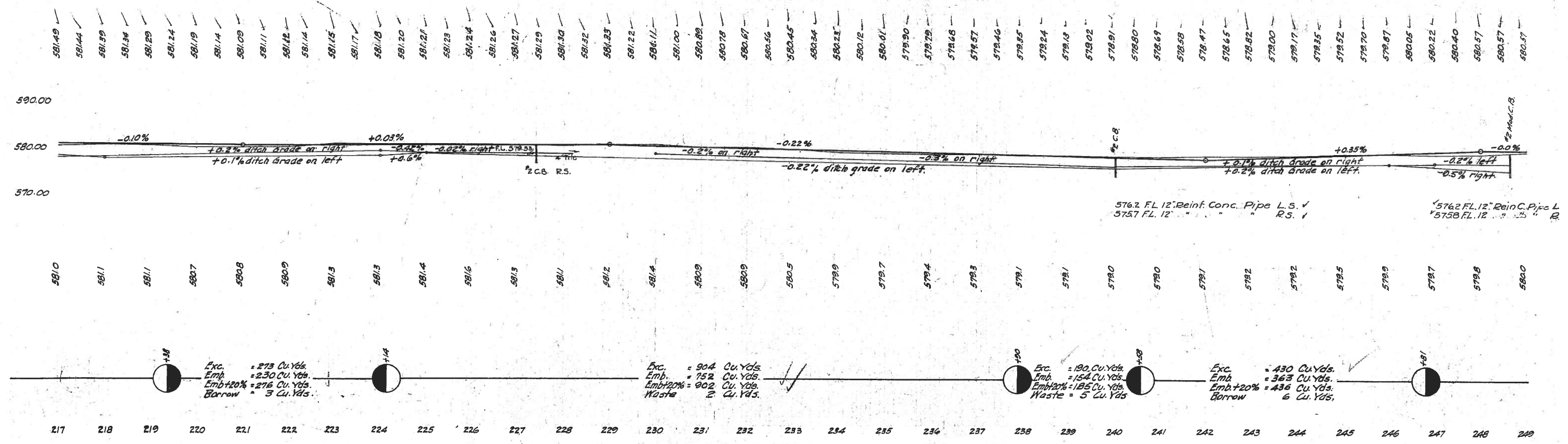
B.M. Sta. 219+15
R.R. Spk. in Po. Pole Lot 6
Ele. 580.26

B.M. Sta. 228+08
R.R. Spk. in Po. Pole Lot 6
Ele. 580.53

B.M. Sta. 236+73
R.R. Spk. in Po. Pole Lot 6
Ele. 578.39

B.M. Sta. 246+57
R.R. Spk. in Po. Pole Lot 6
Ele. 579.64

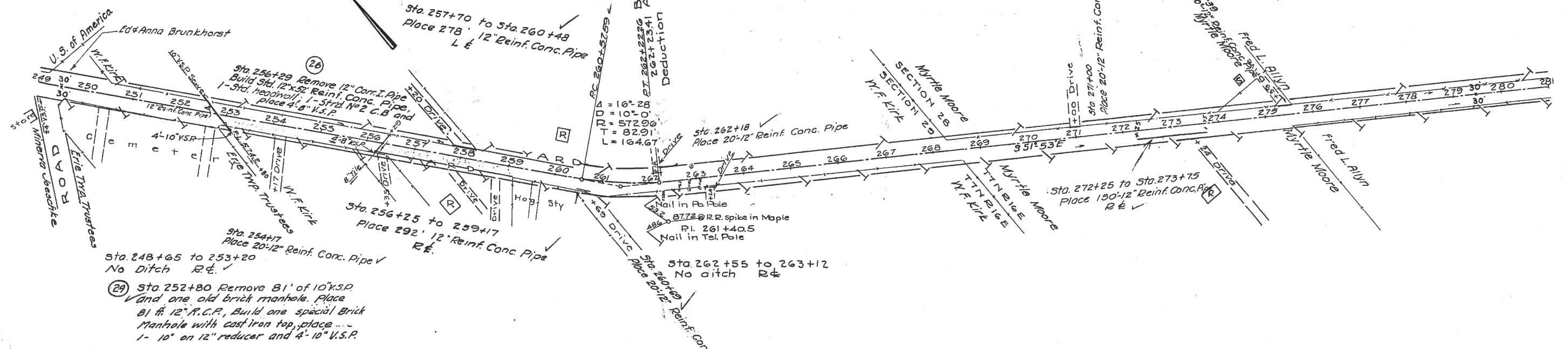
Note: Grade line shown is crown of finished pavement.



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15
13

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OTTAWA COUNTY



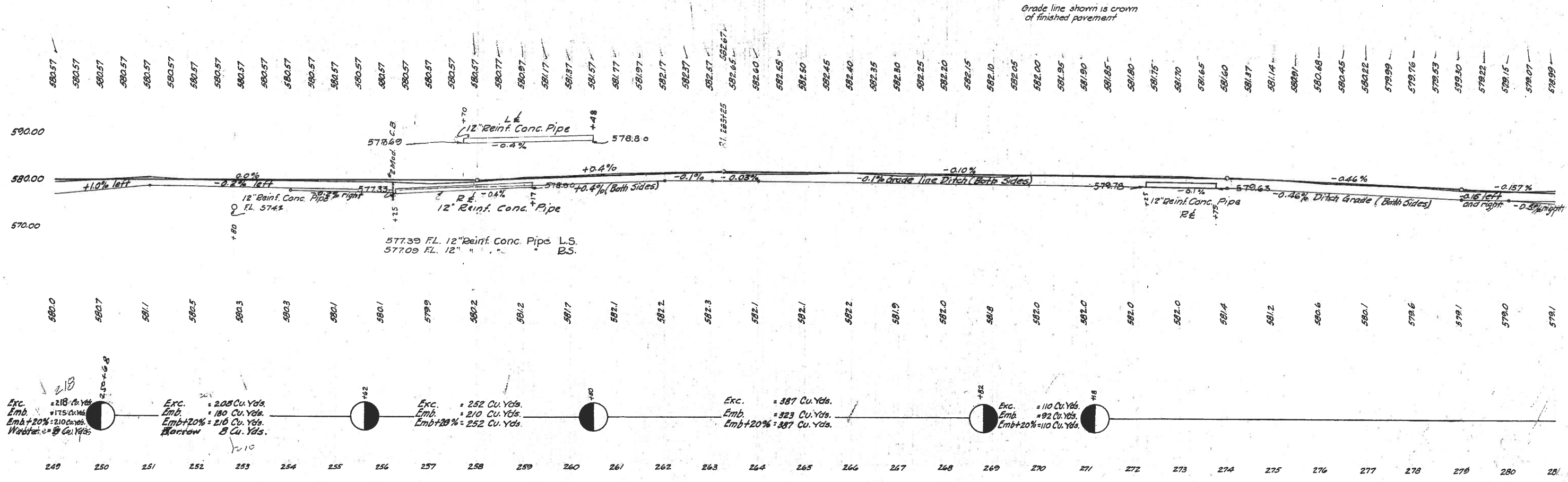
29 Sta. 252+80 Remove 81' of 10" V.S.P. and one old brick manhole. Place 81 ft. 12" R.C.P., Build one special Brick Manhole with cast iron top, place 1- 10" on 12" reducer and 4- 10" V.S.P.

Sta. 249+10 5 tons #4 loose stone or slag to be spread evenly 8" thick on traveled roadway of approach.

B.M. Sta. 255+80
R.R. Spk. in Po. Pole Lot &
Ele. 580.13

B.M. Sta. 266+82
R.R. Spk. in Po. Pole Lot &
Ele. 582.27

B.M. Sta. 277+76
R.R. Spk. in Po. Pole Lot &
Ele. 579.23



Exc. = 218 Cu. Yds.
Emb. = 175 Cu. Yds.
Emb + 20% = 210 Cu. Yds.
Waste = 8 Cu. Yds.

Exc. = 205 Cu. Yds.
Emb. = 180 Cu. Yds.
Emb + 20% = 210 Cu. Yds.
Macrow = 5 Cu. Yds.

Exc. = 252 Cu. Yds.
Emb. = 210 Cu. Yds.
Emb + 20% = 252 Cu. Yds.

Exc. = 387 Cu. Yds.
Emb. = 323 Cu. Yds.
Emb + 20% = 387 Cu. Yds.

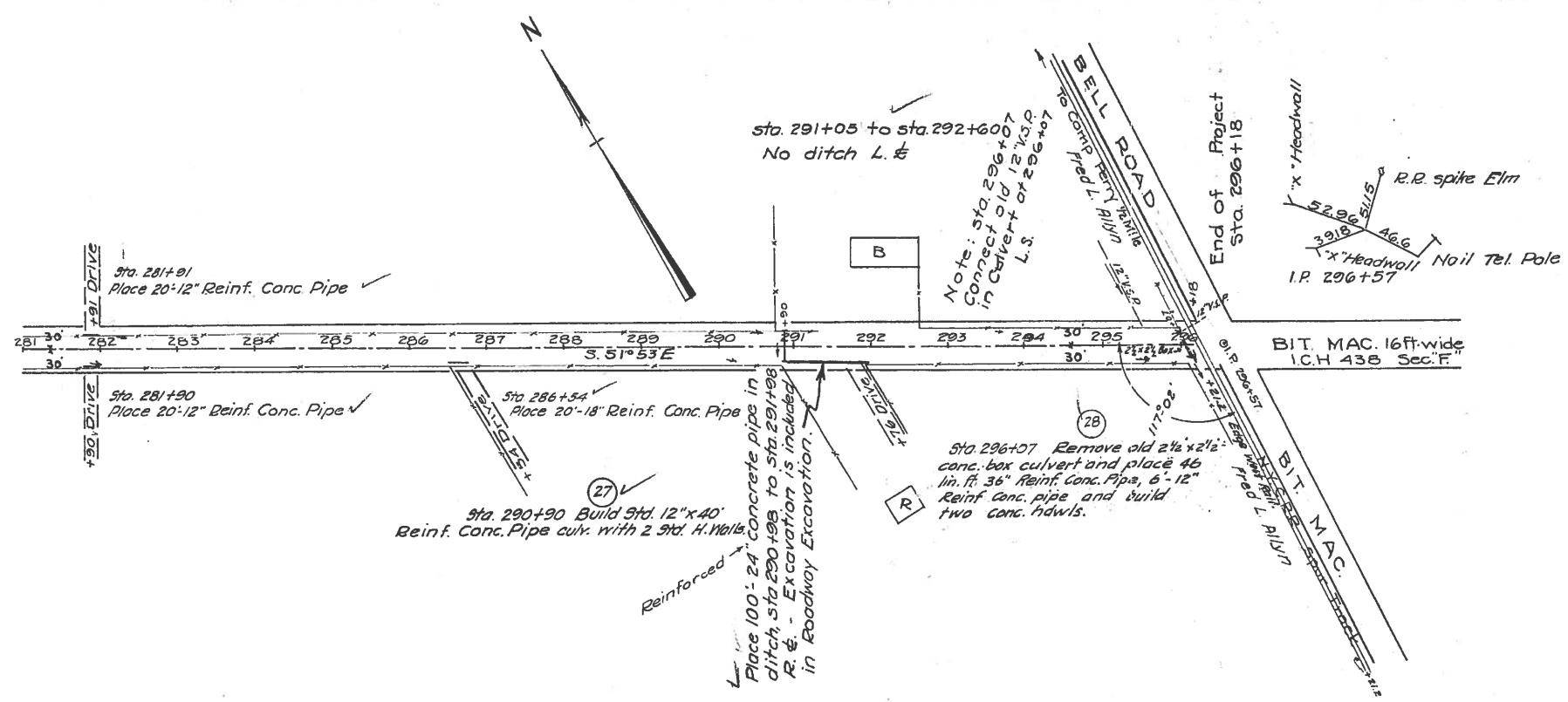
Exc. = 110 Cu. Yds.
Emb. = 92 Cu. Yds.
Emb + 20% = 110 Cu. Yds.

249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281

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16
13

S.H. (ICH) 438 SEC. F
OTTAWA COUNTY



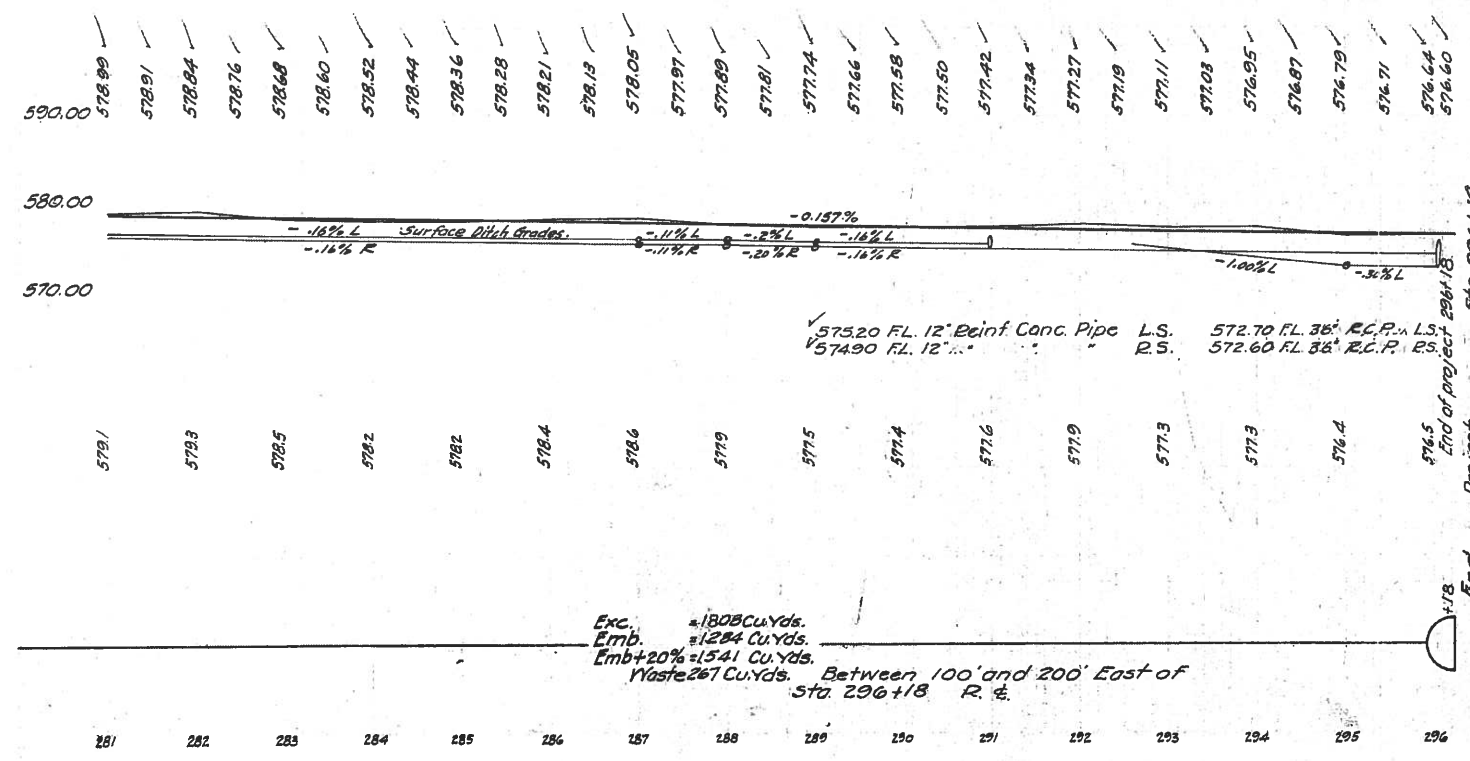
Sta. 290+90 Build 3rd 12"x40" Reinf. Conc. Pipe culv. with 2 3rd H. Walls
Place 100'-24" concrete pipe in ditch sta 290+98 to sta. 291+08 R. & - Excavation is included in Roadway Excavation.

Sta. 296+07 Remove old 24"x24" conc. box culvert and place 46 lin. ft 36" Reinf. Conc. Pipe, 6'-12" Reinf. Conc. pipe and build two conc. hdwls.

B.M. Sta. 288+15
R.R. Spk. in Po. Pole L. of &
Ele. 577.20

B.M. Sta. 296+94
R.R. Spk. in pole stub R. of &
Ele. 575.02

Grade line shown is crown of finished pavement.



575.20 FL 12" Reinf. Conc. Pipe L.S. 572.70 FL 36" R.C.P. L.S.
574.90 FL 12" " " " " R.S. 572.60 FL 36" R.C.P. R.S.

Exc. = 1300 Cu.Yds.
Emb. = 1284 Cu.Yds.
Emb+20% = 1541 Cu.Yds.
Waste = 267 Cu.Yds.
Between 100' and 200' East of Sta. 296+18 R. &