| FED AID DIST. | STATE | FED AID PROJECT | FISCAL YEAR |
|---|---|---|---|
| 10 | OHIO | | 1957 |

WESTVILLE-ALLIANCE-WEST ROAD
STARK COUNTY
S.H. No. 469 SEC.-A-2

STATE OF OHIO

DEPARTMENT OF HIGHWAYS

# WESTVILLE-ALLIANCE-WEST ROAD

## S.H.NO.469-SEC-A-2

# STARK COUNTY

## MARLBORO·LEXINGTON·NIMISHILLEN & WASHINGTON·TOWNSHIPS

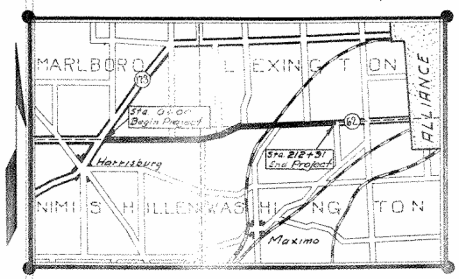
NET LENGTH OF PROJECT =21,291 LIN. F T. OR 4.032 MILES

### CONVENTIONAL SIGNS

- COUNTY LINE
- TOWNSHIP LINE
- CENTER LINE
- PROPERTY LINE
- CITY OR VILLAGE LINE
- FENCE LINE
- STEAM RAIL ROAD
- POLE LINE
- GUARD RAIL
- DRAIN PIPE, NEW
- DRAIN PIPE, O-B

### INDEX OF SHEETS






AVERAGE HAUL MILES

## LOCATION PLAN

Scale Of Miles

PORTION TO BE IMPROVED
DETOURS SHOWN THUS
STATE HIGHWAYS
COUNTY ROADS

### SCALES

PLAN 1"=500'

### LINE DATA

STA. 0+00 TO STA. 212+91 = 21,291 LIN. FT.
NO ADDITIONS OR DEDUCTIONS
NET LENGTH OF PROJECT = 21,291 LIN. FT. OR 4.032 MILES.

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF HIGHWAYS, TOGETHER WITH SUPPLEMENTAL SPECIFICATIONS No. E-112, B-113 & T-135 (REV. 3-15-30) IN FORCE ON DATE OF CONTRACT WILL GOVERN THIS IMPROVEMENT.

I Hereby Approve These Plans And Declare That The Making Of This Improvement Will Not Require The Closing of The Highway To Traffic.

The Necessary Right Of Way Has Been Provided

Approved _____ Resident District Deputy Director
Date

Approved _____ Resident Division Deputy Director
Date

Approved _____ Chief Engineer Bureau Of Maintenance
Date

Approved _____ Chief Engineer Bureau Of Bridges
Date

Approved _____ Chief Engineer Location And Design
Date

Approved _____ First Ass't Director And Chief Engineer
Date

Approved _____ Director Of Highways.
Date

| FILE No. | STARK CO. S.H. 469 SEC. A-2 |
|---|---|
| | DATE OF LETTING |
| | CONTRACT No. |

| | | | |
|---|---|---|---|
| | | | FISCAL YEAR |
| 10 | 04/0 | | 1937 |

2
3

STARK COUNTY
S.H. #9 SEC. A-2

# CONSTRUCTION NOTES

All material removed as trench excavation, Item E-112, or Roadway excavation, (unclassified) Item E-1, shall be used to build up shoulders adjacent to edge of pavement according to Sec. E-112.05 or E-1.05 as directed by the Engineer.

The profile of the asphaltic concrete surface course is approximately 2½" above that of the present pavement.

Any additional material required in excess of that used in the Asphaltic concrete leveling course to adjust the existing pavement to level for the 1½" Binder course, is to be designated and paid for as "Extra Binder," Item T-60.

The second base course and leveling course may be placed in the same operation.

Maintaining Traffic: Traffic shall be maintained at all times to the satisfaction of the Division Engineer. The item of maintaining traffic shall include furnishing lights, signs, barricades and watchmen necessary to secure the unimpeded flow of traffic twenty-four hours daily.

Watering embankments as referred to in paragraph E-1.05 of the General Specifications will not be required on this project.

Spreading and Finishing: In lieu of the requirements of Sec. T-60.20 and Sec. T-60.21 in respect to finishing, placing and spreading between steel forms by the use of standard finishing machine; the binder and wearing course may be placed, spread, and finished in the manner provided in Sec. T-135.16 and T-135.17. The only provisions of these sections not in force are the paragraphs relating to the insulation of truck beds and the heating of joints.

COMPOSITION & APPLICATION OF TOP DRESSING

A top dressing of the composition and of the quantities as hereinafter provided shall be applied to the wearing course. The top dressing shall be composed of materials meeting the requirements of their respective sections of the material details as designated.

Sand Sec. M-2.1 or M-2.5
Asphalt cement Sec. M-5.1
Liquefier Sec. M-5.21

The sand, asphalt cement and liquefier shall be combined in such proportions that the composition by weight of the finished mixture shall be as directed but within the following range limits.

Sand 94% to 97%
Liquefier .75% to 1.75%
Asphalt cement 2% to 4%

The top dressing shall be uniformly spread upon the wearing course at the rate of from 4 to 6 pounds per square yard. Only enough dressing shall be spread within these limits to completely fill the surface voids. The dressing shall be spread by the use of "lutes" or the back of rakes. The dressing shall be applied at some time, as may be directed by the Engineer, during the rolling operation.

Bituminous prime coat, Item T-30 of bituminous material, Sec. M-5.1 R.E-3 applied by distributor or by brooms at the rate of 0.25 gal. per sq. yd., and sand cover, Sec. M-2.1 uniformly spread at the rate of from 4 to 7 pounds per square yard. After bituminous material is applied all material not required to give a uniform coating to the surface shall be swept into all cracks and open joints before the sand cover is placed. (Payment for sand cover is included in price bid per gallon for bituminous material.)

METHODS OF TRENCH EXCAVATION

The contractor will be permitted [illegible] two methods of excavating base widening [illegible]

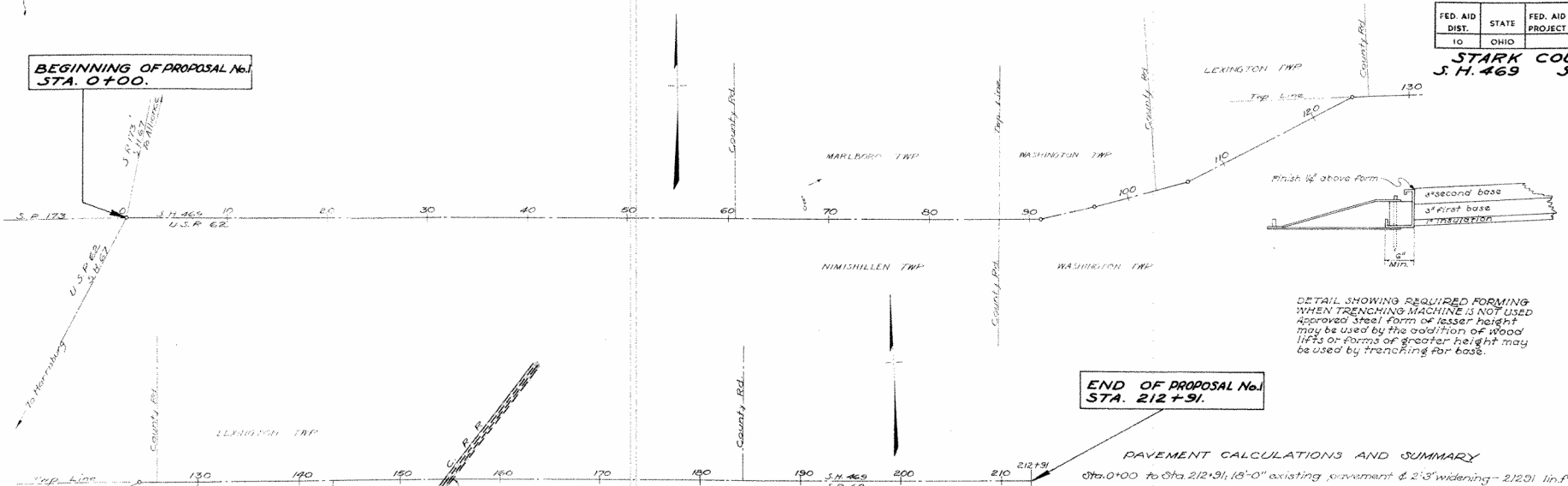
If he elects to perform the work [illegible] Supplemental Specifications E-112, he will be required [illegible] for shoulder preparation, and excavate [illegible] machine, and sta[illegible]

If he elects to perform this [illegible] E-1, he will be required to use [illegible] and borrow; Item E-4 will be used [illegible] shoulders where required.

| FED. AID DIST. | STATE | FED. AID PROJECT | FISCAL YEAR | 3/3 |
|---|---|---|---|---|
| 10 | OHIO | | 1937 | |

# STARK COUNTY
## S.H. 469 SEC. A-2

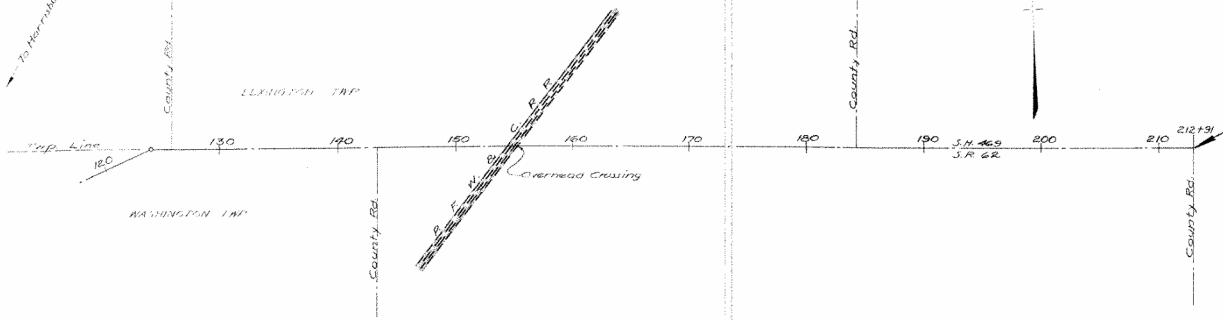
**BEGINNING OF PROPOSAL No.1**
**STA. 0+00.**







DETAIL SHOWING REQUIRED FORMING WHEN TRENCHING MACHINE IS NOT USED
Approved steel form of lesser height may be used by the addition of wood lifts or forms of greater height may be used by trenching for base.

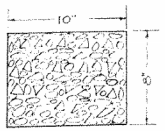



**END OF PROPOSAL No.1**
**STA. 212+91.**

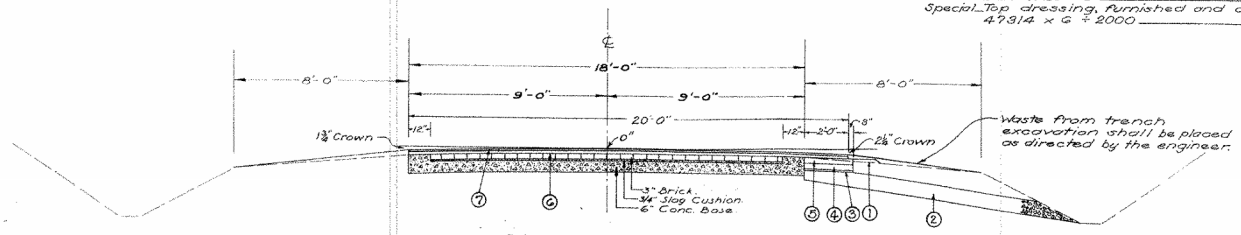
## PAVEMENT CALCULATIONS AND SUMMARY

Sta. 0+00 to Sta. 212+91, 18'-0" existing pavement & 2'-3" widening = 21291 lin.ft. or 4.032 Miles

| | | | |
|---|---|---|---|
| ① E-1 or E-4 | Borrow for shoulder preparation, contractor to furnish or borrow, contractor to furnish. 21291 x .17 x 3.25 ÷ 27 | 433 | Cu.Yds. |
| E-1 or E-1 | Trench excavation or roadway excavation, unclassified 21291 x .58 x 2.25 ÷ 27 | 1029 | Cu.Yds. |
| ② I-5 | No. 2 loose stone drains. Estimated | 12.00 | Lin.Ft. |
| ③ B-11 | 1" Insulation course. 21291 x 2.25 ÷ 9 | 5323 | Sq.Yds. |
| ④ T-60 | 3" Cold-mixed, cold laid asphaltic concrete binder for base widening (1st base course) 21291 x 2.25 ÷ 9 | 5323 | Sq.Yds. |
| ⑤ T-60 | 3" Cold-mixed, cold laid asphaltic concrete binder for base widening (2nd base course) 21291 x 2.25 ÷ 9 | 5323 | Sq.Yds. |
| ⑥ T-30 | Bituminous Prime coat, Sec. M-5.7 AE-3 including sand cover. 21291 x 18 ÷ 9 x .25 | 10646 | Gal. |
| T-60 | Extra binder to be used as leveling course | 200 | Cu.Yds. |
| T-60 | Extra binder | 200 | Cu.Yds. |
| ⑦ T-60 | 2½" Cold mixed, cold laid asphaltic concrete surface course, (Type B wearing course & 1½" binder course 21291 x 20 ÷ 9 | 47314 | Sq.Yds. |
| Special | Top dressing, furnished and applied. 47314 x 6 ÷ 2000 | 142 | Tons. |




DETAIL OF No.2 LOOSE STONE DRAIN USING No.2 STONE




**TYPICAL SECTION**
**FROM STA. 0+00 TO STA. 212+91**

SCALE 3/8" = 1'

PLAN SCALE = 500' = 1"