

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
COUNTY ROAD NO. 456
SPRINGFIELD TOWNSHIP
WILLIAMS COUNTY
RIGHT-OF-WAY

BRZ-8602(1)
STATE JOB NO. 026230
WILLIAMS COUNTY
WIL-C.R. 456

| | | |
|-------------|-------|-------------|
| FHWA REGION | STATE | PROJECT |
| 5 | OHIO | BRZ-8602(1) |

1
17

DESIGN DESIGNATION

| | |
|-----------------------------|--------|
| CURRENT ADT..... | 180 |
| DESIGN YEAR ADT (2000)..... | 290 |
| DHV..... | 40 |
| D..... | 50 % |
| T..... | 1 % |
| V..... | 55 mph |

CONVENTIONAL SIGNS

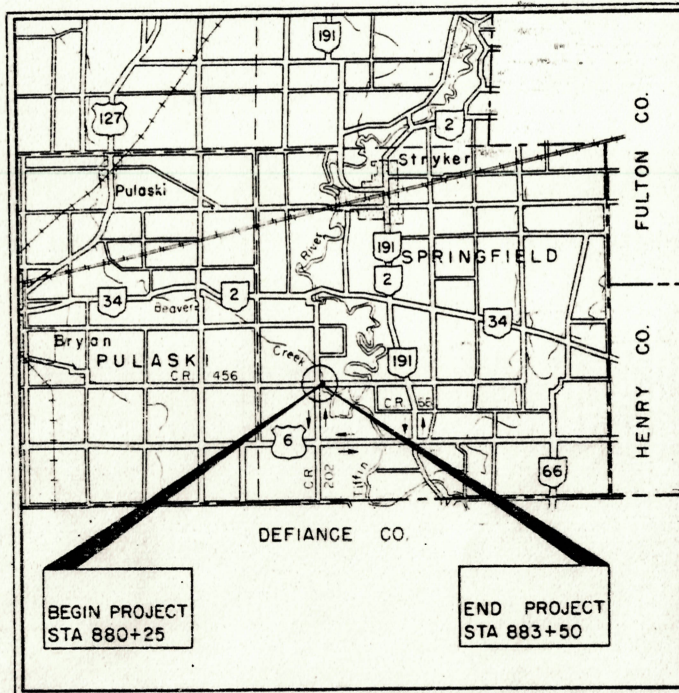
| | | |
|------------------------|---------|---------------------------|
| COUNTY LINE | ----- | TREES (TO BE REMOVED) |
| TOWNSHIP LINE | ----- | UTILITY POLES TELE POWER |
| SECTION LINE | ----- | RIGHT-OF-WAY |
| CORPORATION LINE | ----- | EXIST. RIGHT-OF-WAY |
| FENCE LINE | -x-x-x- | RAILROAD |
| CENTER LINE | ----- | GUARDRAIL (EXIST) (PROP) |

INDEX OF SHEETS

| | |
|---|------|
| TITLE SHEET | 1 |
| TYPICAL SECTION | 2 |
| GENERAL SUMMARY, GENERAL NOTES, CALCULATIONS & RIGHT-OF-WAY SUMMARY | 3 |
| PLAN AND PROFILE | 4 |
| CROSS SECTIONS | 5-10 |
| STRUCTURES OVER 20' | 11 |

LINE DATA

| | |
|----------------------------|----------------------|
| BEGIN PROJECT | STA 880+25 |
| END PROJECT | STA 883+50 |
| LENGTH OF PROJECT | 325 L.F. = .061 mi. |
| ADD FOR APPROACHES | |
| STA. 879+00 TO STA. 880+25 | = 125 L.F. |
| STA. 883+50 TO STA. 884+65 | = 115 L.F. |
| | 565 L.F. = 0.107 mi. |



LOCATION MAP

LEGEND

| | |
|------------------|--|
| PROJECT LOCATION | |
| DETOUR | |

SCALES

| | |
|---------------------|-------------|
| PLAN..... | 0 5 10 20 |
| PROFILE..... | 0 5 10 20 |
| HORIZONTAL..... | 0 1 2 3 4 5 |
| VERTICAL..... | 0 1 2 3 4 5 |
| CROSS SECTIONS..... | 0 1 2 3 4 5 |

1981 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL, SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON THE PLANS.

Approved Harry L. Osburn
Marion L. Bretthorn

Date 8/2/82 Williams County Commissioners

Approved Leonard Opdyke
Date 7-12-82 Williams County Engineer

Approved _____
Date _____ District Deputy Director of Transportation

Approved _____
Date _____ Engineer, Bureau of Bridges and Structural Design

Approved _____
Date _____ Chief Engineer, Planning and Design

Approved _____
Date _____ Director, Department of Transportation

OCT 21 1982

| | |
|----------|----------------------------|
| FILE NO. | Williams County C.R. 456 |
| | Date of Letting _____ 19__ |
| | Contract No. _____ |

PLANS PREPARED BY
ERIKSSON ENGINEERING, LTD.
COLUMBUS, OHIO

| STANDARD DRAWINGS | | | |
|-------------------|---------|-----------|---------|
| SP-5 | 7-16-81 | MC-3 | 6-1-73 |
| BP-6 | 6-1-65 | MC-4 | 7-26-76 |
| GR-1 | 2-5-82 | MC-11 | 8-1-75 |
| GR-2B | 2-5-82 | | |
| GR-3 | 2-5-82 | | |
| GR-4 | 2-5-82 | DBR-2-73 | 4-10-73 |
| GR-4A | 2-5-82 | PSBD-1-81 | 9-18-81 |
| GR-4B | 2-5-82 | | |

| SUPPLEMENTAL SPECIFICATIONS | |
|-----------------------------|--------|
| 1001 | 1-3-77 |
| | |
| | |

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

Approved: _____
Division Administrator

Date _____

Calc By: WGY Date: 1/7/82
 Chk By: JL Date: 3/18/82

| | | | |
|-------------|-------|-------------|--|
| FHWA REGION | STATE | PROJECT | |
| 5 | OHIO | BRZ-8602(1) | |

WILLIAMS COUNTY
 WIL - C.R. 456

3
17

GENERAL NOTES

MOBILIZATION AS PER PLAN

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 300 SQ. FT. OF FLOOR SPACE WHICH SHALL BE IN ACCORDANCE WITH 619.01 AND 619.02. PAYMENT SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 624, MOBILIZATION, AS PER PLAN.

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS

THE ROUNDED CORNERS SHOWN ON THE TYPICAL SECTIONS, APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN ON THESE PLANS.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC.

UTILITIES NOTIFICATION

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UNDERGROUND UTILITY FACILITY SHOWN IN THE PLANS.

THE OWNER OF THE UNDERGROUND UTILITY FACILITY SHALL, WITHIN FORTY-EIGHT HOURS, EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS, AFTER NOTICE IS RECEIVED, STAKE, MARK, OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF THE PLANNED CONSTRUCTION.

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT:
 ELECTRIC: NORTHWESTERN ELECTRIC CO-OP GAS: OHIO GAS CO.
 P.O. BOX 351 200 WEST HIGH ST.,
 BRYAN, OHIO 43506 BRYAN, OHIO 43506
 (419) 636-5031 (419) 636-1117

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR PLAN ITEMS SET UP TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

REMOVAL OF TREES OR STUMPS

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT SHALL BE REMOVED UNDER THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING, EXCEPT THAT THOSE TREES FOR WHICH PROTECTION AND PRESERVATION WORK IS INDICATED ELSEWHERE IN THESE PLANS SHALL NOT BE REMOVED.

THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED:

| SIZES | NO. TREES | NO. STUMPS | TOTAL |
|-------|-----------|------------|-------|
| 18" | 0 | 0 | 0 |
| 30" | 0 | 1 | 1 |
| 48" | 0 | 0 | 0 |
| 60" | 0 | 0 | 0 |

THE ABOVE ESTIMATE IS APPROXIMATE AND THE STATE OF OHIO RESERVES THE RIGHT TO ORDER THE REMOVAL OF ADDITIONAL TREES OR STUMPS OUTSIDE OF THE LIMITS OF CONSTRUCTION BUT WITHIN THE RIGHT-OF-WAY AND/OR EASEMENT LINES. PAYMENT FOR THE REMOVAL OF THESE ADDITIONAL TREES OR STUMPS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

SEEDING

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS BETWEEN (10) TEN FEET OUTSIDE THE WORK LIMITS, AS SHOWN ON THE CROSS SECTIONS, OR TO THE RIGHT-OF-WAY LINE, IF SUCH LINE IS LESS THAN TEN (10) FEET FROM THE WORK LIMITS.

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER, FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES:

207 STRAW OR HAY BALES 20 EACH

EROSION CONTROL

ITEMS 601 IS PROVIDED IN THE PLANS FOR EROSION CONTROL. ROCK OF STABLE NATURE WILL NOT BE REMOVED IN ORDER TO PLACE THIS ITEM. THE ENGINEER SHALL CHECK AND NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES FOR THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION.

WATERING PERMANENT SEEDED AREAS

THE FOLLOWING ESTIMATED QUANTITY IS TO BE USED AS DIRECTED BY THE ENGINEER TO PROMOTE GROWTH AND TO CARE FOR THE PERMANENT SEEDED AREAS, AS PER 459.09:

658 Water 10 M Gal.

LOCATION OF GUARDRAIL

THE LOCATIONS OF GUARDRAIL RUNS, AS SHOWN IN THESE PLANS, ARE SUBJECT TO ADJUSTMENT PRIOR TO FINAL ACCEPTANCE. THE ENGINEER SHALL BE SATISFIED THAT ALL INSTALLATIONS WILL AFFORD MAXIMUM PROTECTION FOR TRAFFIC.

MAINTAINING TRAFFIC

CR. 456 WILL BE CLOSED TO TRAFFIC WITHIN THE LIMITS OF THIS PROJECT. DETOUR SIGNS WILL BE ERECTED, MAINTAINED AND REMOVED BY THE WILLIAMS COUNTY ENGINEER.

THE CONTRACTOR SHALL CLOSE CR. 456 AS REQUIRED UNDER ITEM 614.03 USING BARRICADES AS PER STANDARD DRAWING MC-3.

THE PROJECT WILL NOT BE OPENED TO THROUGH TRAFFIC UNTIL THE PERMANENT PAVEMENT MARKINGS HAVE BEEN PLACED BY THE COUNTY.

LIGHTS AND SIGNS AT ADJACENT ROAD INTERSECTIONS

THE CONTRACTOR SHALL, IN ADDITION TO THE GENERAL REQUIREMENTS OF ITEM 614 ON THIS PROJECT PERFORM THE FOLLOWING:

PROVIDE, ERECT, AND MAINTAIN STANDARD 48" x 30" SIZE "ROAD CLOSED" SIGNS, SIGN SUPPORTS, AND LIGHTS AT THE FOLLOWING LOCATION DURING THE PERIOD IN WHICH THE AFFECTED ROAD IS CLOSED TO TRAFFIC:

- CR. 456 JUST EAST OF CR. 202
- CR. 456 JUST WEST OF CR. 66
- CR. 456 JUST WEST OF SR. 191

SIGN SUPPORTS AND LIGHTS FOR "ROAD CLOSED" SIGNS SHALL BE AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR PROVIDING, ERECTING, MAINTAINING, AND REMOVING LIGHTS, SIGNS, AND SIGN SUPPORTS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

MITIGATING ENVIRONMENTAL IMPACTS: SEE SHEET 2

GENERAL SUMMARY

| ITEM | SHEET NUMBER | | TOTAL | UNIT | ITEM | DESCRIPTION |
|---|--------------|---|-------|------|------|---|
| | 3 | 4 | | | | |
| ROADWAY | | | | | | |
| 201 | Lump | | Lump | Lump | 201 | Clearing & Grubbing |
| 203 | 829 | | 829 | EY | 203 | Excavation Not Including Embankment Construction |
| 203 | 413 | | 413 | EY | 203 | Embankment |
| 203 | 789 | | 789 | SY | 203 | Subgrade Compaction |
| 606 | 4795 | | 4795 | LF | 606 | Guardrail Type F |
| 606 | 3 | | 3 | Ea | 606 | Anchor Assembly, Standard Type A |
| 606 | 1 | | 1 | Ea | 606 | Anchor Assembly, Standard Type B |
| 606 | 4 | | 4 | Ea | 606 | Bridge Terminal Assembly, Standard Type B |
| EROSION CONTROL | | | | | | |
| 207 | 20 | | 20 | Ea | 207 | Straw or Hay Bales |
| 601 | 24 | | 24 | EY | 601 | Rock Channel Protection Type C with Bedding |
| 659 | 2337 | | 2337 | SY | 659 | Seeding & Mulching |
| 659 | 1.06 | | 1.06 | Tons | 659 | Commercial Fertilizer |
| 659 | 10 | | 10 | MGal | 659 | Water |
| DRAINAGE | | | | | | |
| 603 | 54 | | 54 | LF | 603 | 12" Conduit Type D |
| PAVEMENT | | | | | | |
| 301 | 90 | | 90 | EY | 301 | Bituminous Aggregate Base AC-20 or RT-11 or RT-12 |
| 402 | 33 | | 33 | EY | 402 | Asphalt Concrete AC-20 |
| 404 | 35 | | 35 | EY | 404 | Asphalt Concrete AC-20 |
| 304 | 13 | | 13 | EY | 304 | Aggregate Base |
| For Structures 20' Span & Over, See Sheet No 12 | | | | | | |
| MISCELLANEOUS | | | | | | |
| 614 | Lump | | Lump | Lump | 614 | Maintaining Traffic |
| 623 | Lump | | Lump | Lump | 623 | Construction Layout Stakes |
| 624 | Lump | | Lump | Lump | 624 | Mobilization, as per plan |

RIGHT-OF-WAY SUMMARY

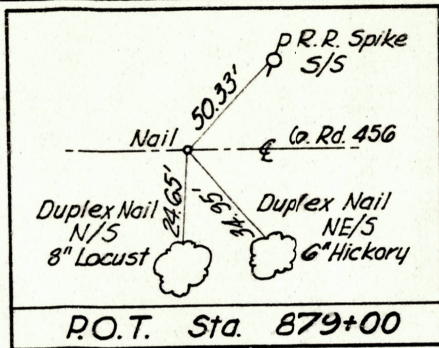
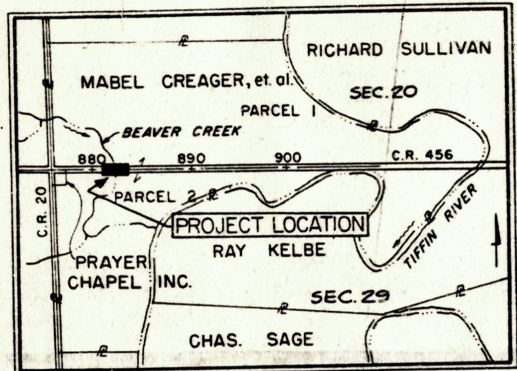
PROJECT AFFECTS ONE OWNERSHIP IN THE NAMES OF:
 MABEL CREAGER, CHARLES DIERKS, MAXINE DIERKS,
 EDMUND DIERKS, DAVID DIERKS, MARILYN J. KUHN,
 ROBERT KUHN
 DEED REFERENCE: DB 209, p 504; DB 261, p 354;
 DB 197, p 262; DB 262, p 311.

AREAS ARE AS FOLLOWS:
 (NEW RW to be acquired as Highway Easement)

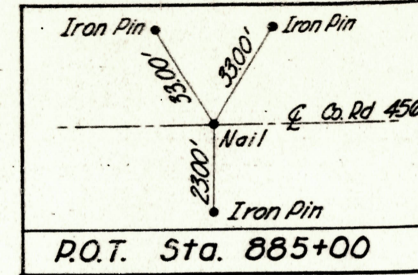
| | PARCEL 1 (SEC. 20) | PARCEL 2 (SEC. 29) | TOTAL |
|-------------|-----------------------|-----------------------|-----------|
| RECORD AREA | 92.21 Ac | 60.32 Ac | 152.53 Ac |
| TOTAL PRO | 2.64 Ac | 2.70 Ac | 5.34 Ac |
| GROSS TAKE | 0.255 Ac | 0.189 Ac | 0.444 Ac |
| PRO INTAKE | 0 | 0 | 0 |
| NET TAKE | 0.255 Ac | 0.189 Ac | 0.444 Ac |
| RESIDUE Lt | 89.315 Ac | | 89.315 Ac |
| RESIDUE Rt | | 57.431 Ac | 57.431 Ac |

CALCULATIONS

| PAVEMENT AREA | | | 301 BITUMINOUS AGGREGATE BASE | | |
|--|----------------------------|---------------------|---|--|-----------------|
| Sta 879+75 - Sta 880+25 | = 50 L.F. x 1/2 (19'+20') | = 975 sf. | 788.3 sy x 4" = 36"/yd | | = 876 EY |
| Sta 880+25 - Sta 881+51.25 | = 126.25 L.F. x 20' | = 2525 sf. | Edge Course 2 x 357.5 L.F. x 3/12 1/4" x 0.333 = (27 c/y) | | = 2.2 EY |
| Sta 882+67.75 - Sta 883+50 | = 82.25 L.F. x 20' | = 1645 sf. | | | |
| Sta 883+50 - Sta 884+50 | = 100 L.F. x 1/2 (20'+19') | = 1950 sf. | | | |
| | 358.5 L.F. | 7095 SF = 788.3 SY. | | | 89.8 EY = 90 EY |
| 404 ASPHALT CONCRETE | | | 203 SUBGRADE COMPACTION | | |
| 788.3 sy x 1 1/2" = 36"/yd | | = 32.9 EY | From Pavement Area = 789 SY. | | |
| Add Feather 2 x 1/2 (15 L.F.) (19) x 125' = (27 c/y) | | = 1.3 EY | | | |
| | | 34.2 EY = 35 EY | | | |
| 402 ASPHALT CONCRETE | | | 659 COMMERCIAL FERTILIZER | | |
| 788.3 sy x 1 1/2" = 36"/yd | | = 32.9 EY = 33 EY | From Seeding 2337 sy x 9 c/y x 100%/1000 sf x 1 ton/2000 = 1.06 | | |



| ESTIMATED QUANTITIES | | | | | |
|----------------------|-----------------|------|-----|-----|-----|
| REF. NO. | STATION | SIDE | 601 | 603 | 704 |
| 1EC | 882+65 - 883+16 | LT. | 12" | | |
| 2EE | 882+60 - 883+10 | RT. | 12" | | |
| 1D | 883+16 - 883+70 | LT. | | 54 | |
| 1DW | 883+45 | LT. | | | 13 |
| TOTALS | | | 24 | 54 | 13 |

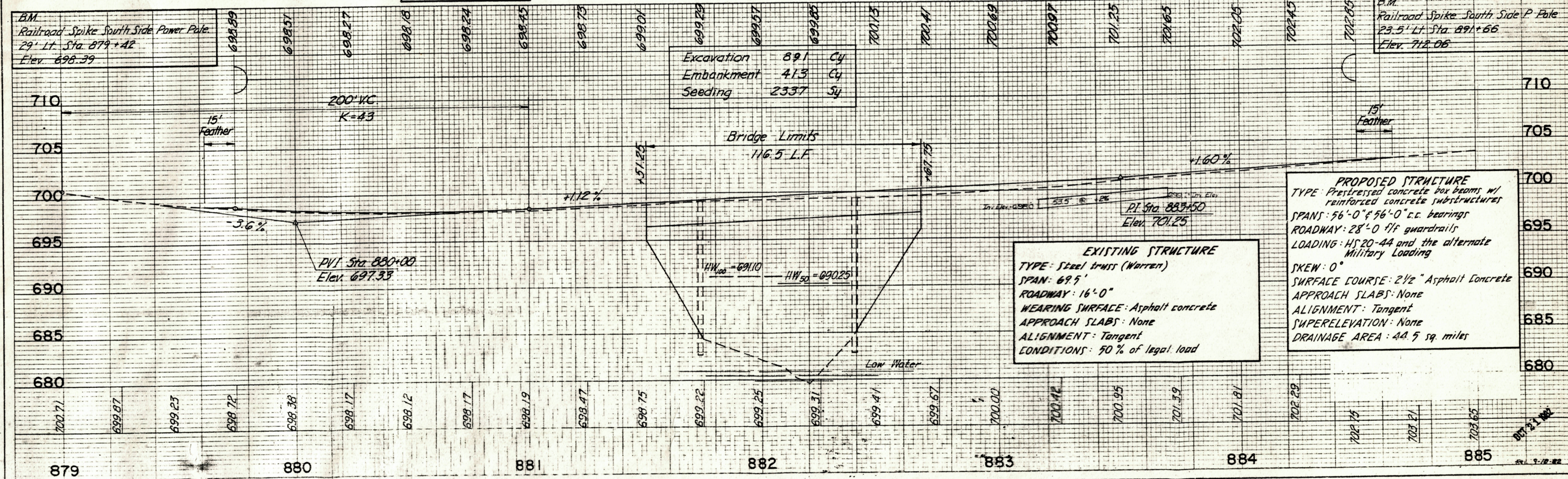
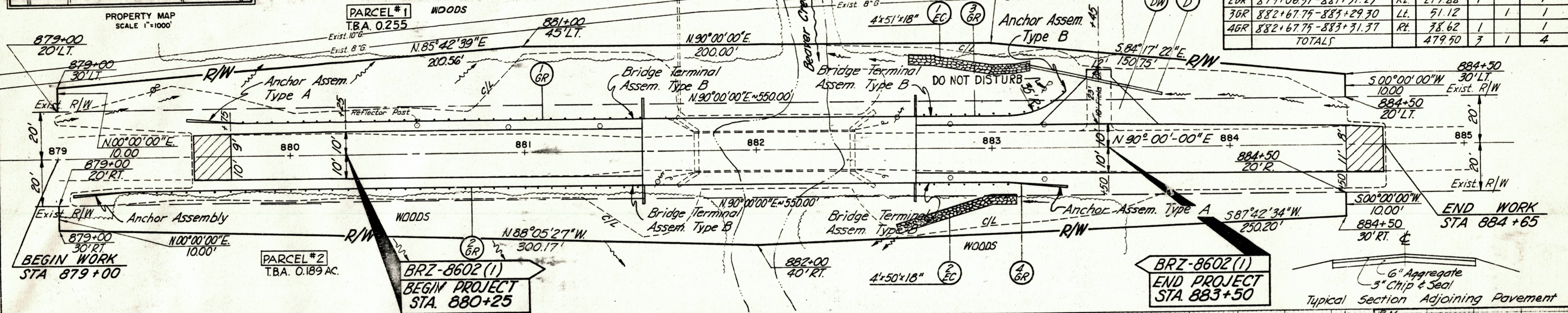


Calc. By: W.G.Y. Date: 1/1/82
 Chk. By: J.L. Date: 3/10/82

| | | | |
|-------------------|-------|-------------|----|
| FED. RD. DIVISION | STATE | PROJECT | 4 |
| 5 | OHIO | BRZ-8602(1) | 17 |

WILLIAMS COUNTY
 WIL - C. R. 456

| ESTIMATED QUANTITIES | | | | | | |
|----------------------|-----------------------|------|------------------|--------------------------|---|---------------------------------|
| REF. NO. | STATION | SIDE | Guardrail Type 5 | 606 Anchor Assembly Type | | Bridge Terminal Assembly Type B |
| | | | | A | B | |
| 1GR | 879+56.37 - 881+51.25 | LT. | 169.88 | 1 | | 1 |
| 2GR | 879+06.37 - 881+51.25 | RT. | 219.88 | 1 | | 1 |
| 3GR | 882+67.75 - 883+29.30 | LT. | 51.12 | | 1 | 1 |
| 4GR | 882+67.75 - 883+31.37 | RT. | 78.62 | 1 | | 1 |
| TOTALS | | | 479.50 | 3 | 1 | 4 |



| | | |
|------------|------|----|
| Excavation | 891 | Cy |
| Embankment | 413 | Cy |
| Seeding | 2337 | Sy |

EXISTING STRUCTURE
 TYPE: Steel truss (Warren)
 SPAN: 69.5'
 ROADWAY: 16'-0"
 WEARING SURFACE: Asphalt concrete
 APPROACH SLABS: None
 ALIGNMENT: Tangent
 CONDITIONS: 50% of legal load

PROPOSED STRUCTURE
 TYPE: Prestressed concrete box beams w/ reinforced concrete substructures
 SPANS: 56'-0" & 56'-0" C.C. bearings
 ROADWAY: 28'-0" flt guardrails
 LOADING: HS 20-44 and the alternate Military Loading
 SKEW: 0°
 SURFACE COURSE: 2 1/2" Asphalt Concrete
 APPROACH SLABS: None
 ALIGNMENT: Tangent
 SUPERELEVATION: None
 DRAINAGE AREA: 40.5 sq. miles

PLAN & PROFILE