

61-0131

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

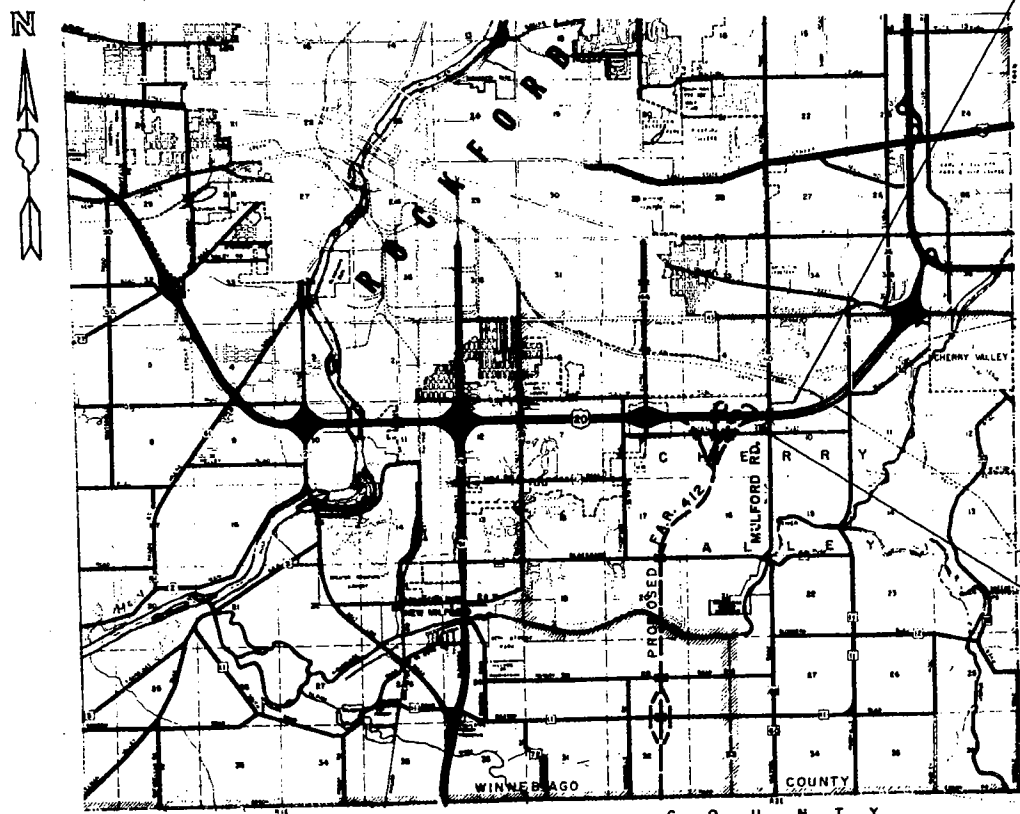
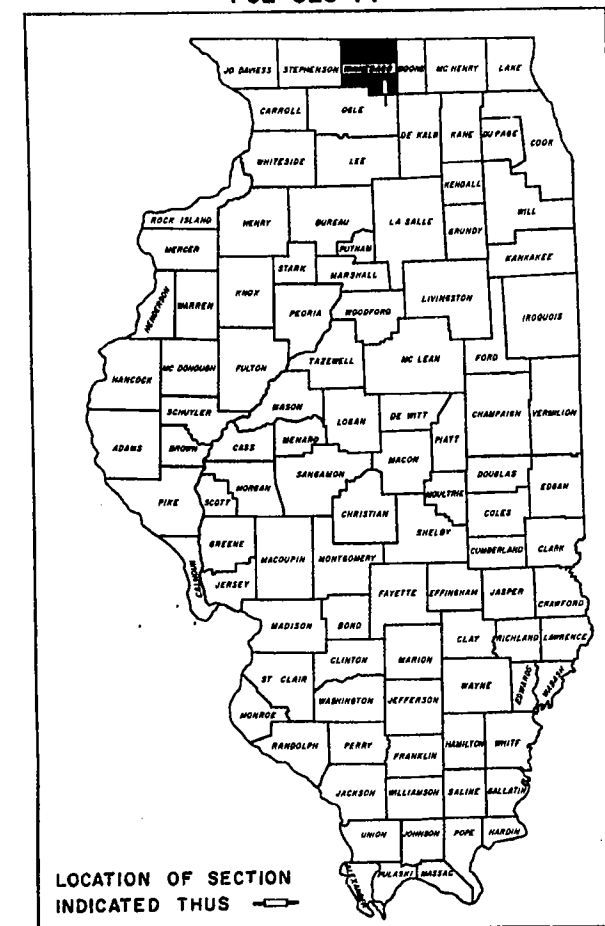
| FEDERAL AID ROUTE NO. | SEC. | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|-----------|--------------|-----------|
| 412 | 201-3HB-3 | WINNEBAGO | 58 | 1 |
| F.W.A. PROJ. NO. 4 ILLINOIS PP. 18-7 EBU-412-5(4) | | | | |

P92-026-74

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

F. A. ROUTE 412
SECTION 201-3HB-3
F. A. PROJECT EBU -412-5(4)
WINNEBAGO COUNTY

C-92-002-76



PROJECT
ENDS
MULFORD ROAD
STATION 60+00.00

SECTION 201-3HB-3
INCLUDES THE REMOVAL AND COMPLETE RECONSTRUCTION OF A TWO SPAN (1 AT 94'-0" & AT 131'-0") WELDED PLATE GIRDER STRUCTURE CARRYING C.H. ROUTE 60 (MULFORD ROAD) OVER F.A. ROUTE 194 (U.S. ROUTE 20) AT STATION 753+57.61 ALONG CENTERLINE F.A. ROUTE 194.

PROJECT
BEGINS
MULFORD ROAD
STATION 39+18.00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Feb. 5 1976
D. E. Summark
DISTRICT ENGINEER

EXAMINED March 17 1976
[Signature]
ENGINEER OF PLANS AND CONTRACTS

PASSED March 17 1976
Thomas R. Bright
ENGINEER OF DESIGN

APPROVED March 17 1976
[Signature]
DIRECTOR OF HIGHWAYS

DESIGN DESIGNATION
265 (95) COLLECTOR 0.65(BIT CONC-20)

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____
DIVISION ADMINISTRATOR DATE

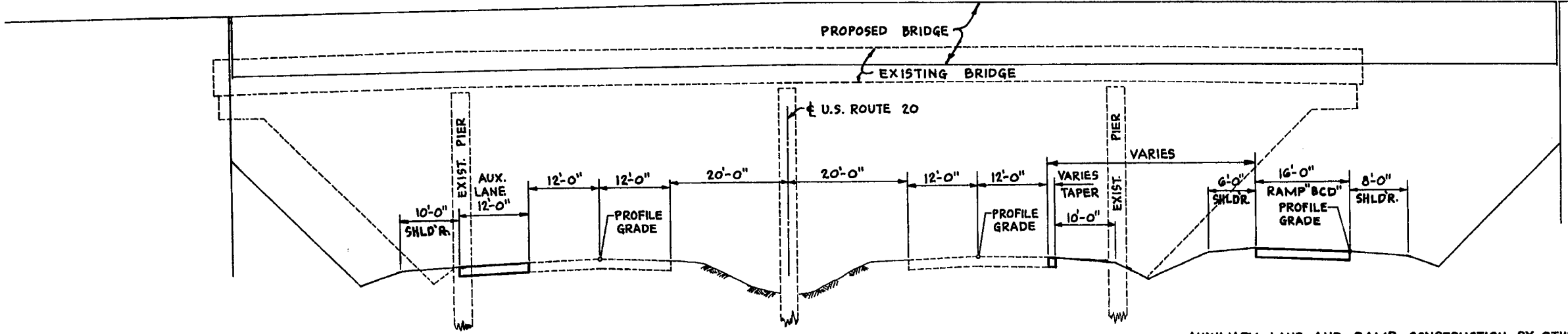
LAYOUT
SCALE 1" = 1 MILE

NET LENGTH OF PROJECT EBU-412-5(4) = 0.00 FT = 0.000 MILES
GROSS LENGTH OF IMPROVEMENT = 2082.00 FEET = 0.394 MILES = 0.634 KILOMETERS.
NET LENGTH OF IMPROVEMENT = 2082.00 FEET = 0.394 MILES = 0.634 KILOMETERS

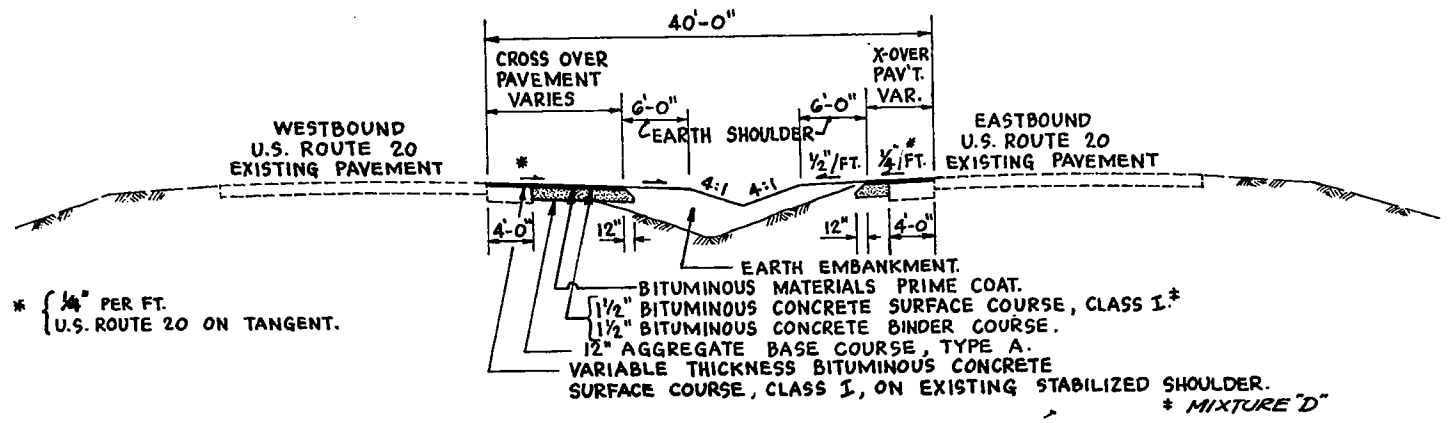
CONTRACT NO. 82127

Handwritten signature

| | | | | |
|-----------------|-----------|-----------|--------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| F.A. 412 | 201-3HB-3 | WINNEBAGO | 38 | 3 |
| STA. | TO STA. | | | |
| HW & REG. NO. 4 | ILLINOIS | PROJECT | | |

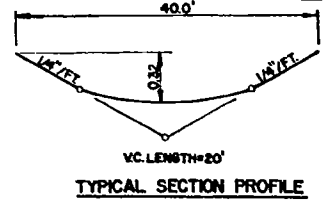


**U.S. ROUTE 20
VICINITY MULFORD ROAD
(LOOKING WEST)**

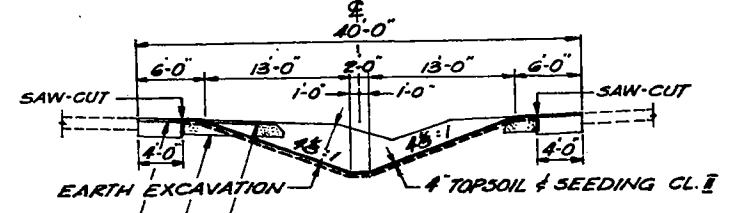


* 1/4" PER FT.
U.S. ROUTE 20 ON TANGENT.

MEDIAN CROSS-OVERS, CONSTRUCTION

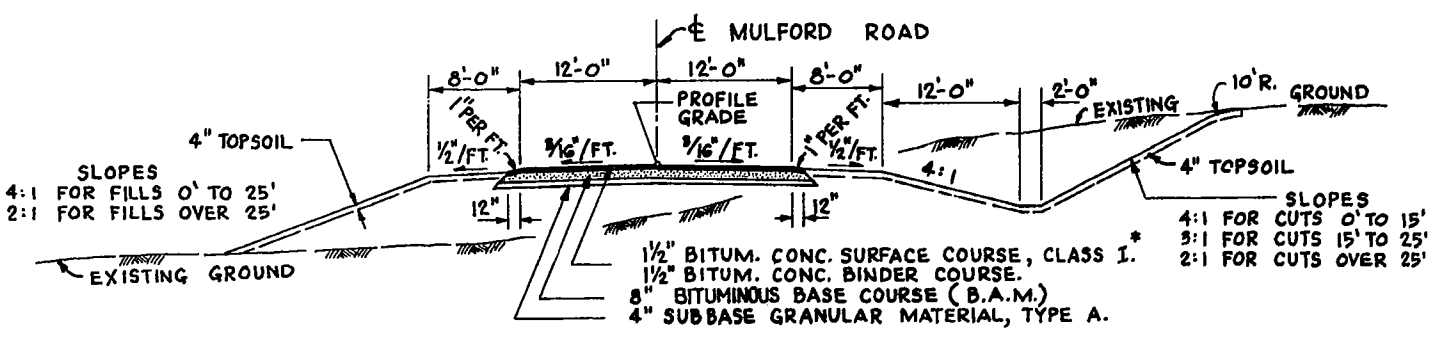


VARIABLE THICKNESS BITUMINOUS CONCRETE SURFACE COURSE, CLASS I, ON EXISTING STABILIZED SHOULDER TO REMAIN IN PLACE.



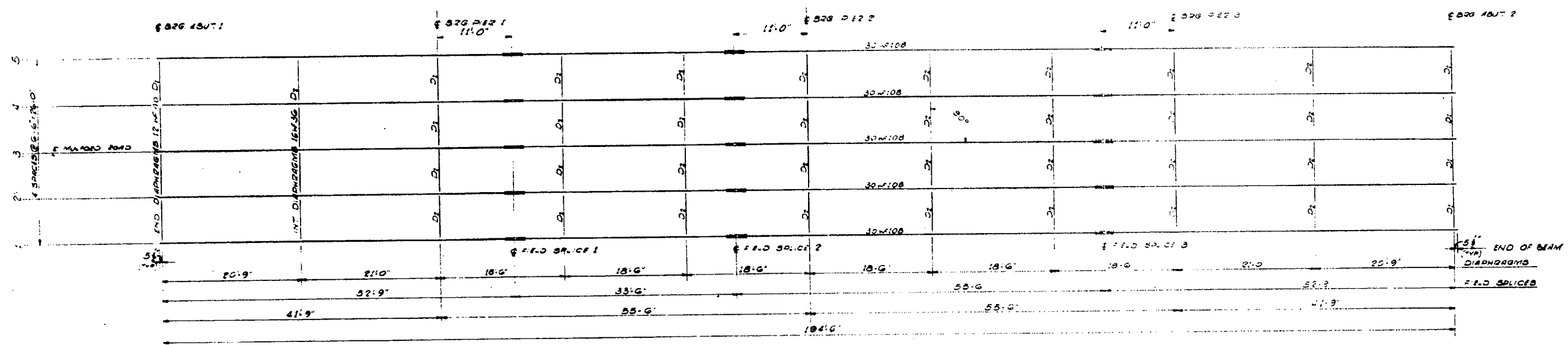
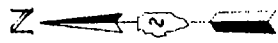
MEDIAN CROSS-OVERS, REMOVAL

12" AGGREGATE BASE COURSE, TYPE A REMOVAL TO BE PAID FOR AS STOCK-PILING SALVAGED AGGREGATE



MULFORD ROAD (COLLECTOR)

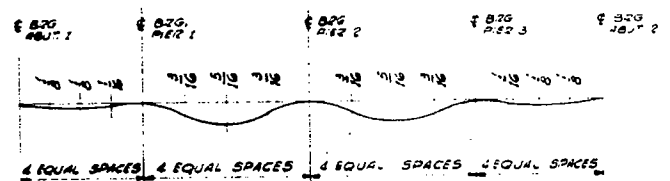
TYPICAL SECTIONS
FA. ROUTE 412
SECTION 201-3HB-3
WINNEBAGO COUNTY
DISTRICT NO. 2



FRAMING PLAN
SCALE: 1/4"=1'-0"

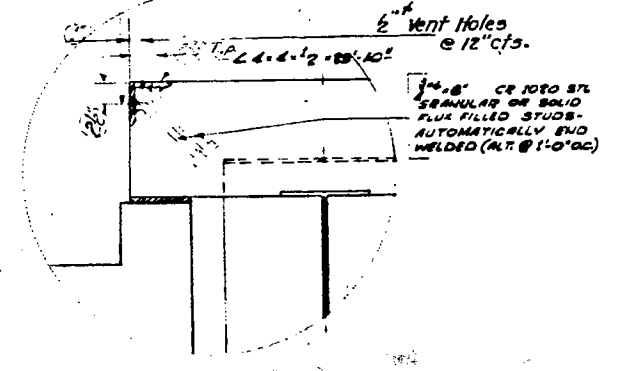
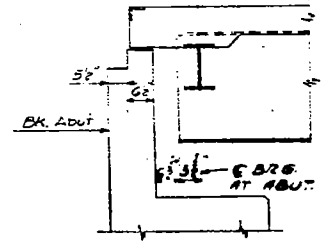
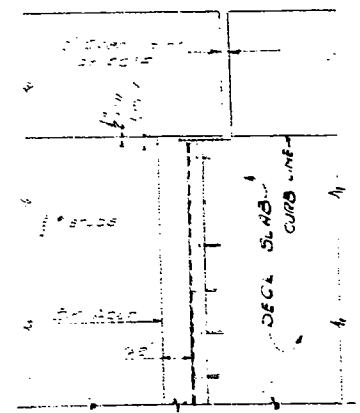
ELEVATIONS & SPACINGS ARE AT TOP OF BEAMS, NOT @ TOP OF SPLICE PLATES.

| BEAM NO. | LOC. ON | B26 | B26 | FIELD | FIELD | B26 | FIELD | B26 | B26 |
|----------|-------------|--------|--------|----------|----------|----------|--------|--------|--------|
| | | ABUT 1 | PIER 1 | SPLICE 1 | SPLICE 2 | SPLICE 3 | PIER 2 | PIER 3 | ABUT 2 |
| 1 | TOP OF BEAM | 822.40 | 822.59 | 822.62 | 822.67 | 822.66 | 822.56 | 822.58 | 822.67 |
| 2 | TOP OF SLAB | 822.50 | 822.69 | 822.72 | 822.77 | 822.76 | 822.66 | 822.68 | 822.77 |
| 3 | TOP OF BEAM | 822.92 | 823.05 | 823.08 | 823.13 | 823.11 | 823.07 | 823.07 | 823.19 |
| 4 | TOP OF SLAB | 823.03 | 823.22 | 823.25 | 823.30 | 823.29 | 823.19 | 823.21 | 823.33 |
| 5 | TOP OF BEAM | 823.35 | 823.48 | 823.51 | 823.56 | 823.55 | 823.45 | 823.47 | 823.59 |



DEAD LOAD DEFLECTION DIAGRAM
FOR SLAB ONLY

1/2" HOLES @ 12" OC FOR 3/8" BOLTS. ALL BOLTS SHALL BE BUTTED, SHOWN ON C. DRESSED OFF ENDS - N.W. BACK OF ANGLES AFTER BOLTS ARE REMOVED.

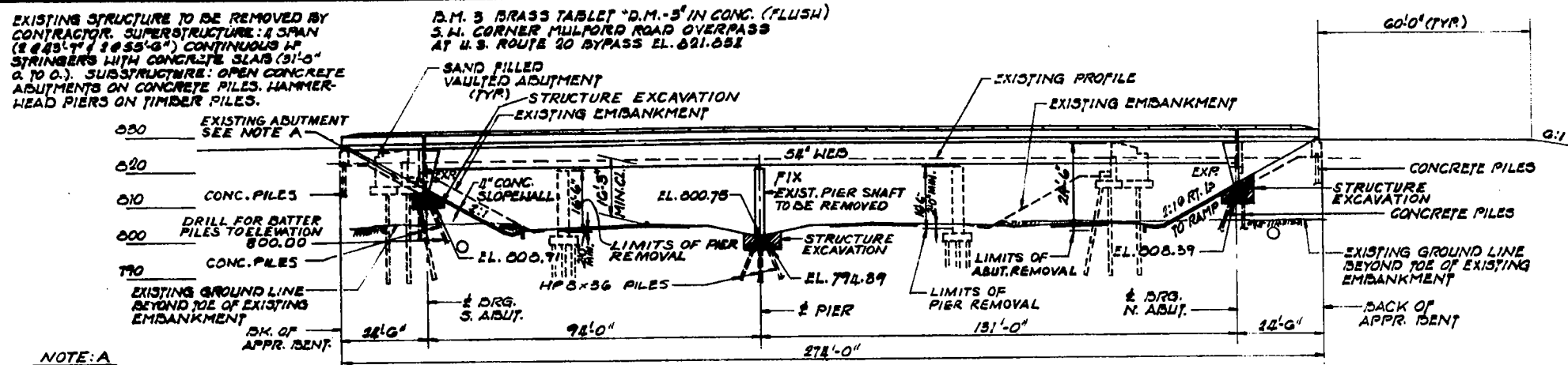


THIS SHEET TO BE USED FOR CONTRACTORS REFERENCE ONLY.

FOR STEEL DETAILS SEE SMT. N.P.10.
ILLINOIS DIVISION OF HIGHWAYS
ROCKFORD BYPASS
PROJECT _____ SECTION 41283
WINNEBAGO COUNTY
STEEL FRAMING PLAN

PLAN EXPANSION JOINT SECTION DETAIL A

| NO. | SECTION | QUANTITY | TOTAL SHEETS |
|---------------|-----------|-----------|--------------|
| F.A. 112 | 201-3ND-3 | WINNEBAGO | 88 |
| STA. | TO STA. | | |
| PROJECT | | | |
| SHEET 1 OF 17 | | | |

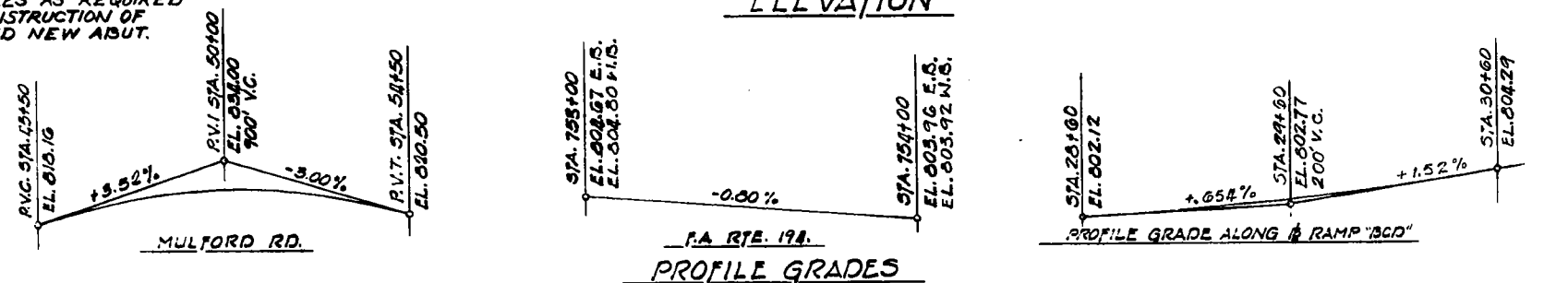


NOTE: A
 REMOVE EXISTING ABUTMENT AND PILES AS REQUIRED FOR CONSTRUCTION OF PROPOSED NEW ABUT.

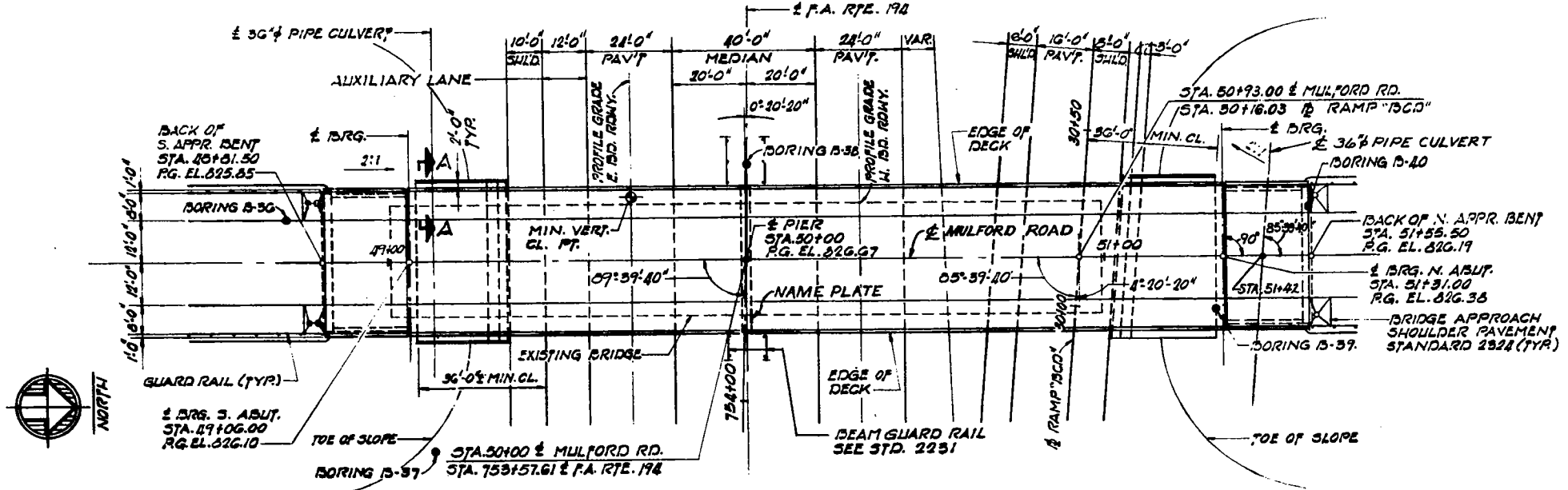
ELEVATION

INDEX OF SHEETS

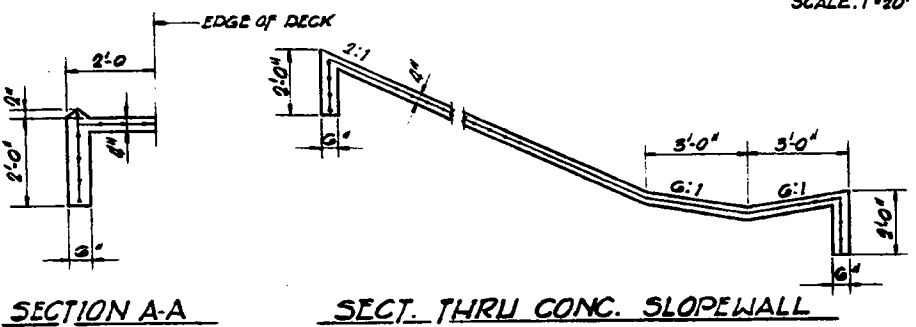
1. GENERAL PLAN AND ELEVATION
2. GENERAL NOTES, QUANTITIES & NAME PLAT
3. DECK REINFORCEMENT PLAN - SPANS 1 & 4
4. DECK REINFORCEMENT PLAN - SPANS 2 & 3
5. DECK DETAILS - SPANS 2 AND 3
6. NEOPRENE EXPANSION JOINT
7. ALUMINUM RAILING DETAILS
8. TOP OF SLAB ELEVATIONS
9. TOP OF SLAB ELEVATIONS
10. FRAMING PLAN - SPANS 2 AND 3
11. STEEL DETAILS
12. CROSS FRAMES
13. SOUTH ABUTMENT
14. NORTH ABUTMENT
15. ABUTMENT DETAILS
16. PIER
17. CONCRETE PILE DETAILS



PROFILE GRADES



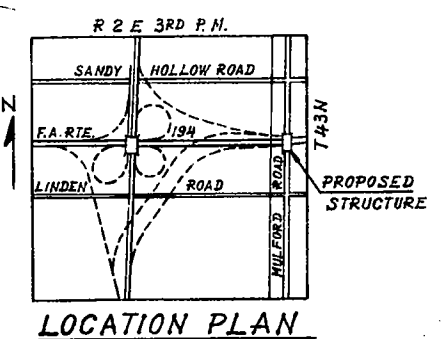
PLAN
 SCALE: 1"=20'



SECTION A-A

SECT. THRU CONC. SLOPEWALL

DESIGN LOAD
 L.L. = HS20-44
 FUTURE D.L. = 25 P.S.F.
DESIGN STRESSES
 f_c = 3,000 P.S.I.
 f_c = 1,200 P.S.I. (DECK SLAB SPAN 2 & 3)
 f_c = 1,400 P.S.I. (SUBSTRUCTURE, CURB, PARAPET & DECK SLAB - SPANS 1 & 4)
 f_c = 1,000 P.S.I. (WITH EARTH PRESSURE)
 v = 54.2 P.S.I. (FOOTINGS)
 n = 10
REINFORCING STEEL
 f_s = 20,000 P.S.I.
STRUCTURAL STEEL
 f_s = 20,000 P.S.I. (M185)
 MAX. L.L. DEFLECTION
 $L/1200$ (COMPOSITE)
 DESIGN SPECIFICATIONS
 AASHTO 1973 AND INTERIMS AS APPLICABLE



LOCATION PLAN

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
Carl E. Shuman
 REGISTERED PROFESSIONAL ENGINEER

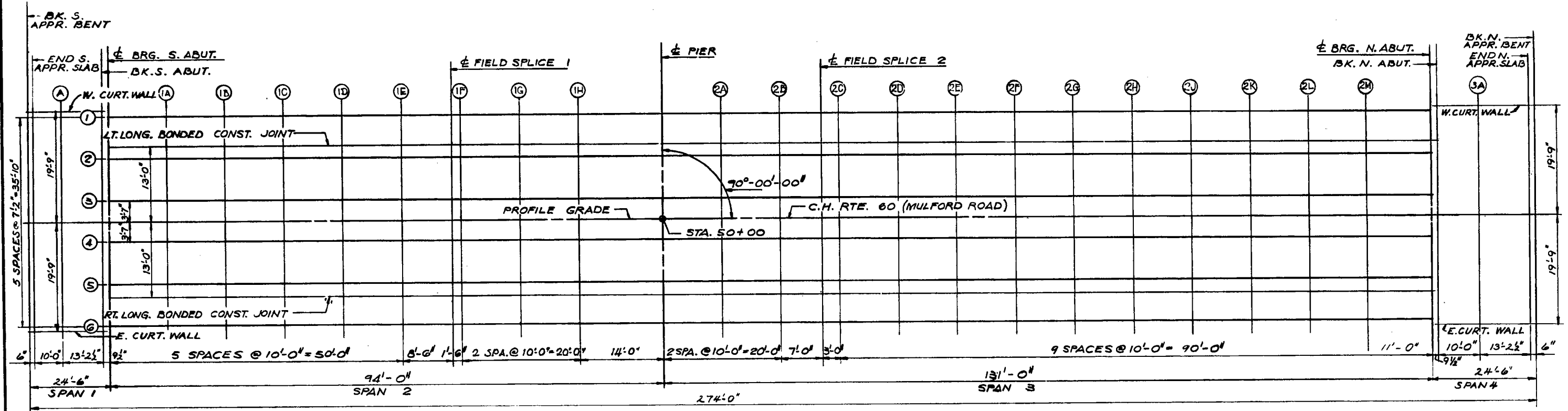
Harold R. ...
 4/1994

ALFRED BENESCH & COMPANY
 CONSULTING ENGINEERS
 400 NO. 1605 - L
 233 N. MICHIGAN AVE., CHICAGO, ILLINOIS

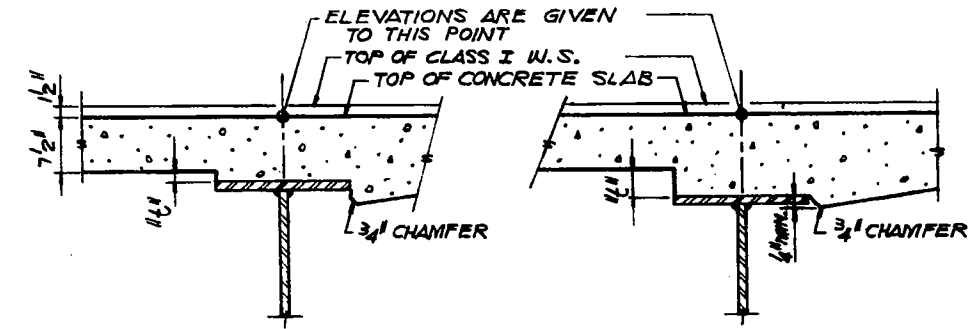
GENERAL PLAN AND ELEVATION
C.H. ROUTE 60 (MULFORD ROAD)
OVER F.A. ROUTE 194
PROJECT
SECTION 201-3ND-3
WINNEBAGO COUNTY
STATION 753+57.61

| NO. | SECTION | SUBJECT | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|-----------|--------------|-----------|
| F.A. 412 | 201-SHD-3 | WINNEBAGO | 38 | 16 |
| STA. | | TO STA. | | |
| 7. HS. & REG. NO. 4 | | PROJECT | | |

SHEET 8 OF 17

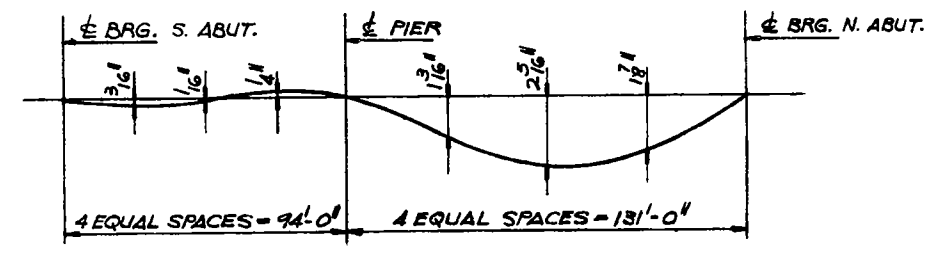


PLAN



AT MINIMUM FILLET AT MAXIMUM FILLET
FILLET HEIGHTS

FILLET 3/4" THICKNESS
 TO DETERMINE "H" AFTER ALL STRUCTURAL STEEL HAS BEEN ERECTED, ELEVATIONS OF THE TOP FLANGES OF THE GIRDERS SHALL BE TAKEN AT INTERVALS SHOWN. THESE ELEVATIONS SUBTRACTED FROM THE "THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION" SHOWN ON SHEET 9, MINUS SLAB THICKNESS, EQUALS THE FILLET HEIGHT "H" ABOVE TOP FLANGE OF THE GIRDERS.



DEAD LOAD DEFLECTION DIAGRAM

INCLUDES WEIGHT OF CONCRETE & INITIAL SUPERIMPOSED D.L. ONLY

NOTE:
 THE ABOVE DEFLECTIONS ARE NOT TO BE USED IN THE FIELD IF THE ENGINEER IS WORKING FROM THE "THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION".

TOP OF SLAB ELEVATIONS
C.H. ROUTE 60 (MULFORD ROAD)
OVER F.A. ROUTE 184
PROJECT
SECTION 201-SHD-3
WINNEBAGO COUNTY
STATION 753+57.61

ALFRED BENESCH & COMPANY
 CONSULTING ENGINEERS
 408 NO. 1608-L
 233 N. MICHIGAN AVE. CHICAGO, ILLINOIS

