

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|-------------------------|----------|--------------------|-----------|
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 1 |
| ILLINOIS | | | CONTRACT NO. 68E37 | |

D-94-050-18



- INDEX OF SHEETS**
- 1. COVER SHEET
 - 2. GENERAL NOTES
 - 3-4 SUMMARY OF QUANTITIES
 - 5-50 PLAN AND TRAFFIC CONTROL SHEETS

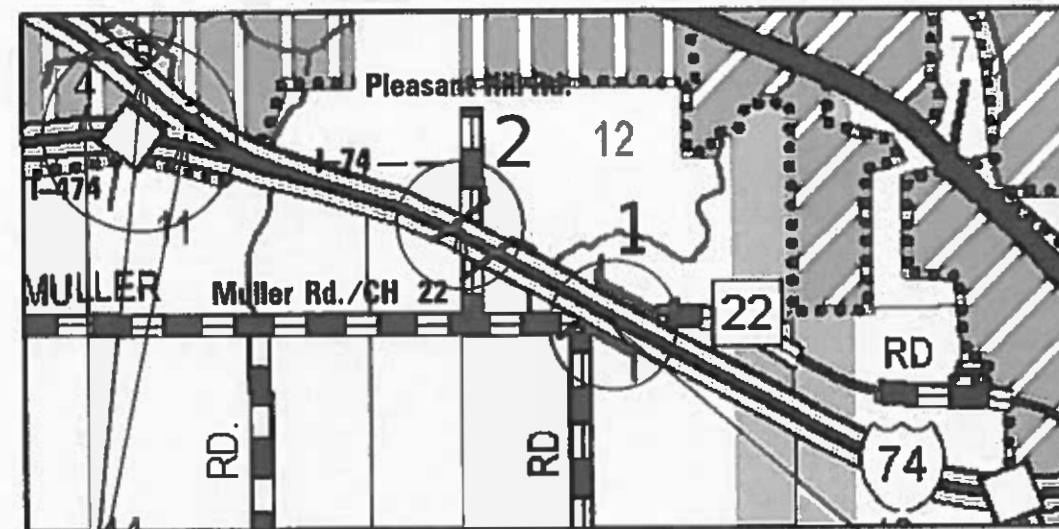
HIGHWAY STANDARDS

| | |
|-----------|-----------|
| 701006-05 | 701101-05 |
| 701106-02 | 701201-05 |
| 701206-05 | 701301-04 |
| 701400-09 | 701401-12 |
| 701402-12 | 701406-12 |
| 701411-09 | 701426-09 |
| 701428-01 | 701451-05 |
| 701901-08 | |

**PROPOSED
HIGHWAY PLANS**

I 474(FAI 474) I 74(FAI 74)
SECTION D4 BRIDGE PAINTING 2019
PROJECT NHPP-GPNK(168)
DESCRIPTION BRIDGE PAINTING
TAZEWELL COUNTY

C-94-072-18



AADT

| | | | | | |
|-------------------|--------|------|------|------|-------------|
| 090-0116 / AADT = | 54,300 | SU = | 1750 | MU = | 5400 / 2017 |
| 090-0117 / AADT = | 54,300 | SU = | 1750 | MU = | 5400 / 2017 |
| 090-0118 / AADT = | 13,900 | SU = | 600 | MU = | 2300 / 2017 |
| 090-0119 / AADT = | 41,300 | SU = | 1900 | MU = | 3600 / 2017 |
| 090-0102 / AADT = | 13,900 | SU = | 600 | MU = | 2300 / 2017 |

#2 SN 090-0116

#1 SN 090-0117

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-8123
OR 811

PROJECT ENGINEER TOM INGLIS (309)671-3450
PROJECT MANAGER MIKE LEWIS (309)671-3454

- #4 SN 090-0118
- #5 SN 090-0119
- #3 SN 090-0102

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Feb 01 2019
Kensel A. Barnett RSD
REGION THREE ENGINEER

March 22 2019
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

March 22 2019
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

COMMITMENTS

There are no Commitments for this project.

GENERAL NOTES

All painting shall be as specified in the Special Provisions for "Cleaning and Painting Existing Structural Steel." All areas indicated on the plans shall be painted with the Paint System 1-OZ/E/U. All beams, brackets and all other structural steel shall be cleaned per Near White Metal Blasted Cleaning SSPC-SP10, according to the following schedule.

Bridge Locations 1-5 the entire structures.

Bridge Locations 1-5. All fascia beams shall be Blue (Munsell No. 10B 3/16) and the beams undersides shall be a Light Gray (Munsell 5B 7/11)

Air Monitors-Two are to be used at Locations No. 2 and 3 only. QP1 and QP2 required for this project.

PROTECTIVE SHIELD

The existing protective shield shall be removed prior to abrasive blasting and shall be reinstalled after the final field coat has dried to recoat according to the product sheet.

Any damaged protective shield shall be replaced at the contractors expense with no additional compensation from the department. This work shall be included in the cost of Containment and Disposal of Lead Paint residues for locations 1 and 3 thru 5.

MODEL: \$MODELNAME\$
FILE NAME: \$FILE\$

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.J. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|-------------------------|----------|--------------------|-----------|
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 2 |
| | | | CONTRACT NO. 68E37 | |
| | | ILLINOIS | FED. AID PROJECT | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONST. CODE | |
|----------|---|-------|----------------|-------------|-------|
| | | | | FED / STATE | URBAN |
| Z0010501 | CLEANING AND PAINTING STEEL, BUILDING 1 | L SUM | 1 | 90 / 10 | 1 |
| Z0010502 | CLEANING AND PAINTING STEEL, BUILDING 2 | L SUM | 1 | 0047 | 1 |
| Z0010503 | CLEANING AND PAINTING STEEL, BUILDING 3 | L SUM | 1 | URBAN | 1 |
| Z0010504 | CLEANING AND PAINTING STEEL, BUILDING 4 | L SUM | 1 | | 1 |
| Z0010505 | CLEANING AND PAINTING STEEL, BUILDING 5 | L SUM | 1 | | 1 |
| 67100100 | MOBILIZATION | L SUM | 1 | | 1 |
| 70400500 | TEMPORARY CONCRETE BARRIER (STATE OWNED) | FOOT | 650 | | 650 |
| 70400600 | RELOCATE TEMPORARY CONCRETE BARRIER (STATE OWNED) | FOOT | 3950 | | 3950 |
| 70600250 | IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 | EACH | 2 | | 2 |
| 70600350 | IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3 | EACH | 18 | | 18 |
| X0322559 | BOLT REPLACEMENT | EACH | 114 | | 114 |
| X7010216 | TRAFFIC CONTROL AND PROTECTION (SPECIAL) | L SUM | 1 | | 1 |
| Z0007101 | CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO.1 | L SUM | 1 | | 1 |
| Z0007102 | CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO.2 | L SUM | 1 | | 1 |

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FILE NAME: #FILE#

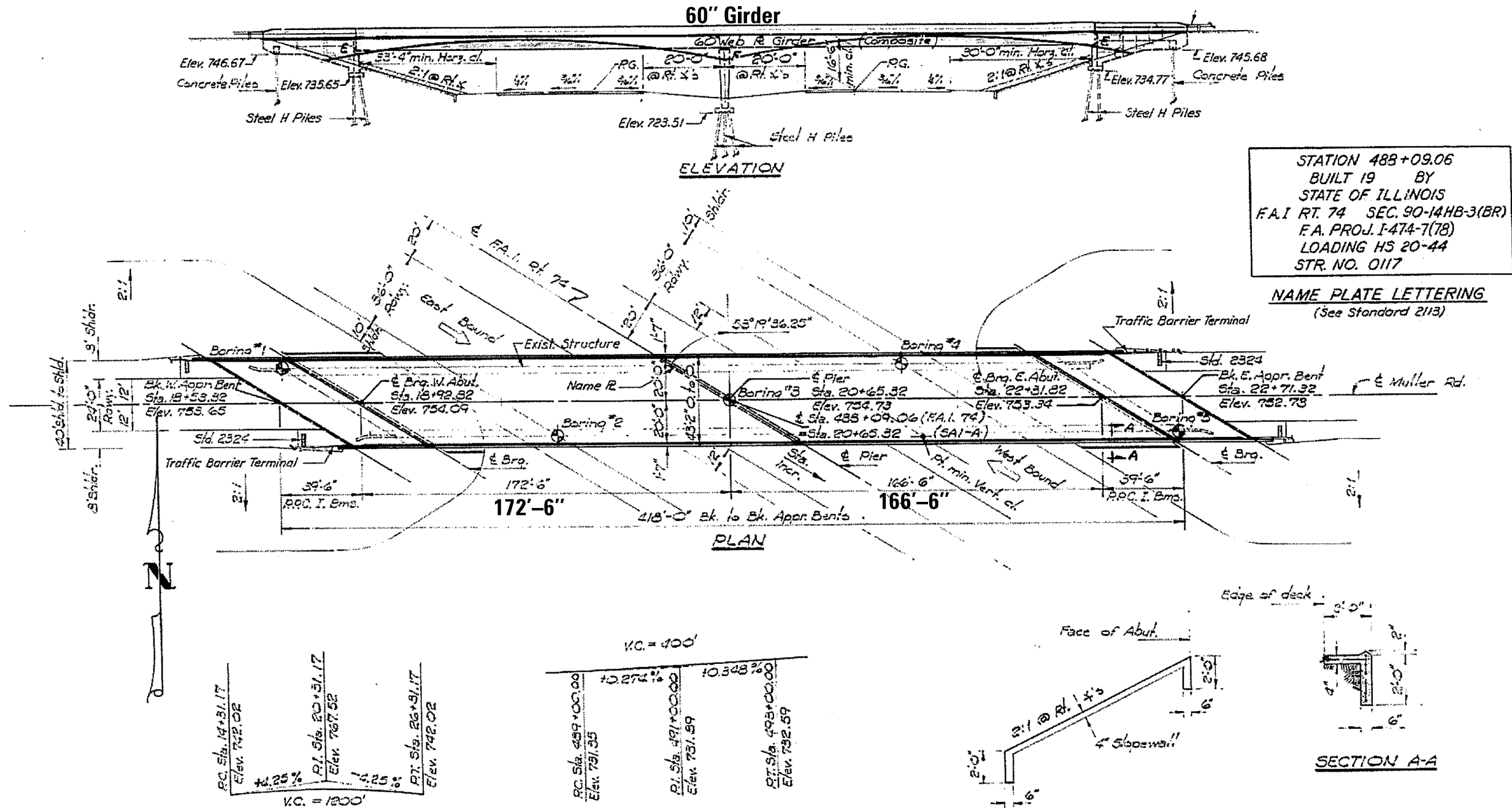
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| PLOT DATE = #DATE* | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

| | | | | |
|---------------------------|----------------------|----------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 474/74 D4 | BRIDGE PAINTING 2019 | TAZEWELL | 50 | 3 |
| | | | CONTRACT NO. 68E37 | |
| ILLINOIS FED. AID PROJECT | | | | |

SN 090-0117 CH 22 OVER I-74



INFORMATION ONLY

MODEL: SMOBELNAMES
FILE NAME: STILES

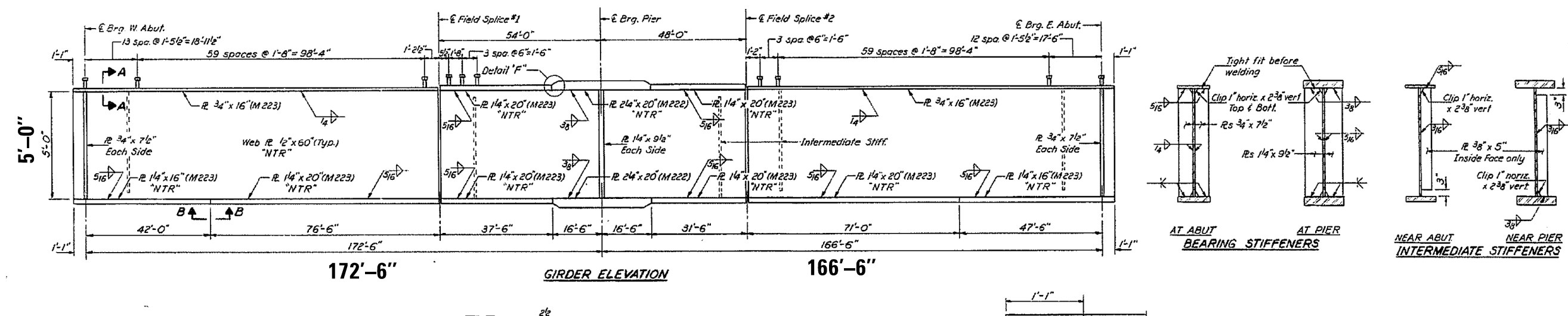
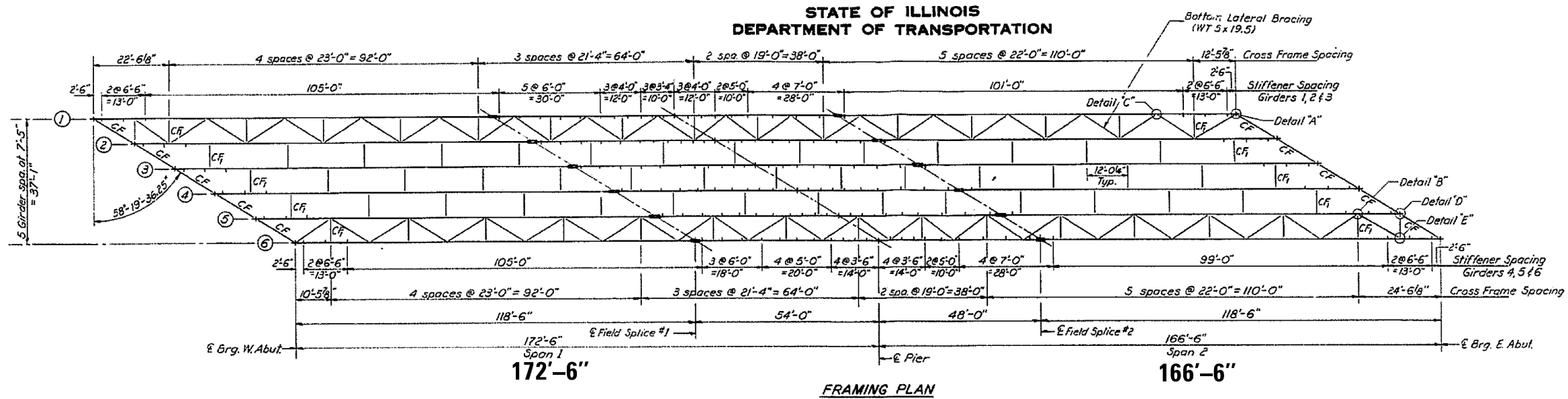
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| | DRAWN - | REVISED - | |
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| PLAN AND ELEVATION VIEW | |
|-------------------------|------------------------------|
| SCALE: | SHEET OF SHEETS STA. TO STA. |

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------------|----------|--------------|-----------|
| 474/74 | D4 BRIDGE PAINT 2019 | TAZEWELL | 50 | 5 |
| CONTRACT NO. 68E37 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SN 090-0117 CH 22 OVER I-74

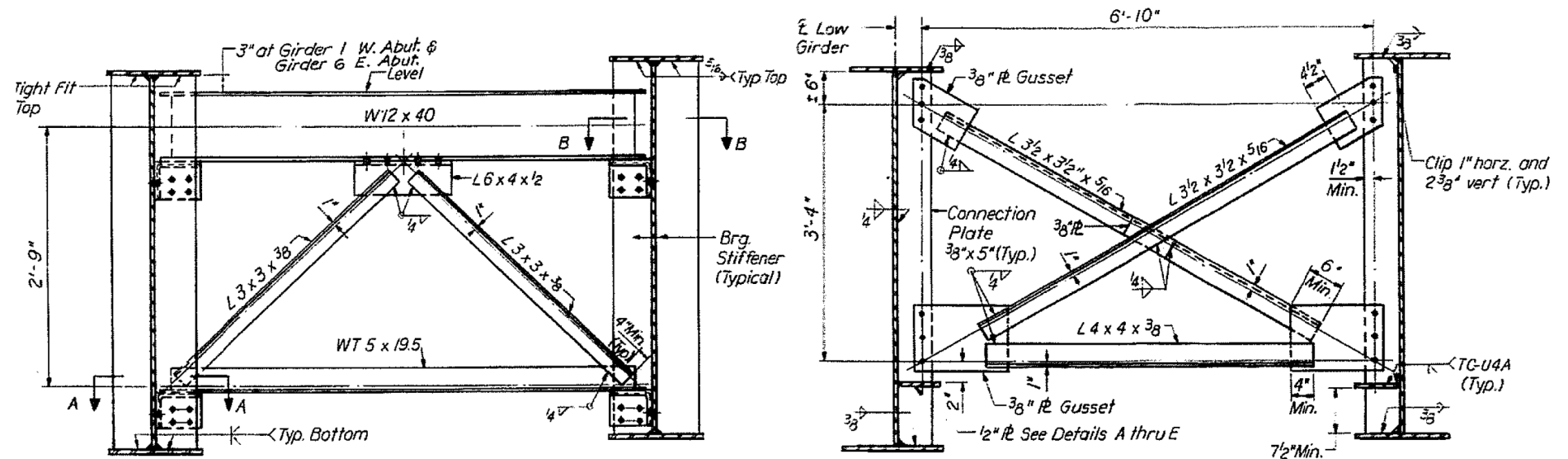


INFORMATION ONLY

MODEL: SMOBELNAMES
FILE NAME: STILES

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| DRAWN - | REVISOR - | REVISOR - | | SCALE: | SHEET | OF | SHEETS | STA. | TO | STA. | 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 6 |
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| PLOT DATE = \$DATE\$ | DATE - | REVISOR - | | | | | | | | | | | | | |
| | | | | | | | | | | | ILLINOIS FED. AID PROJECT | | CONTRACT NO. 68E37 | | |

SN 090-0117 CH 22 OVER I-74

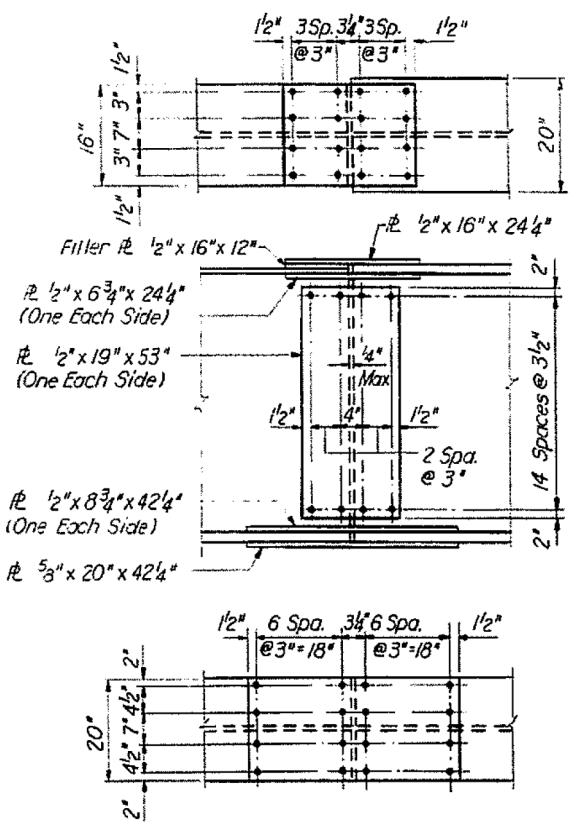
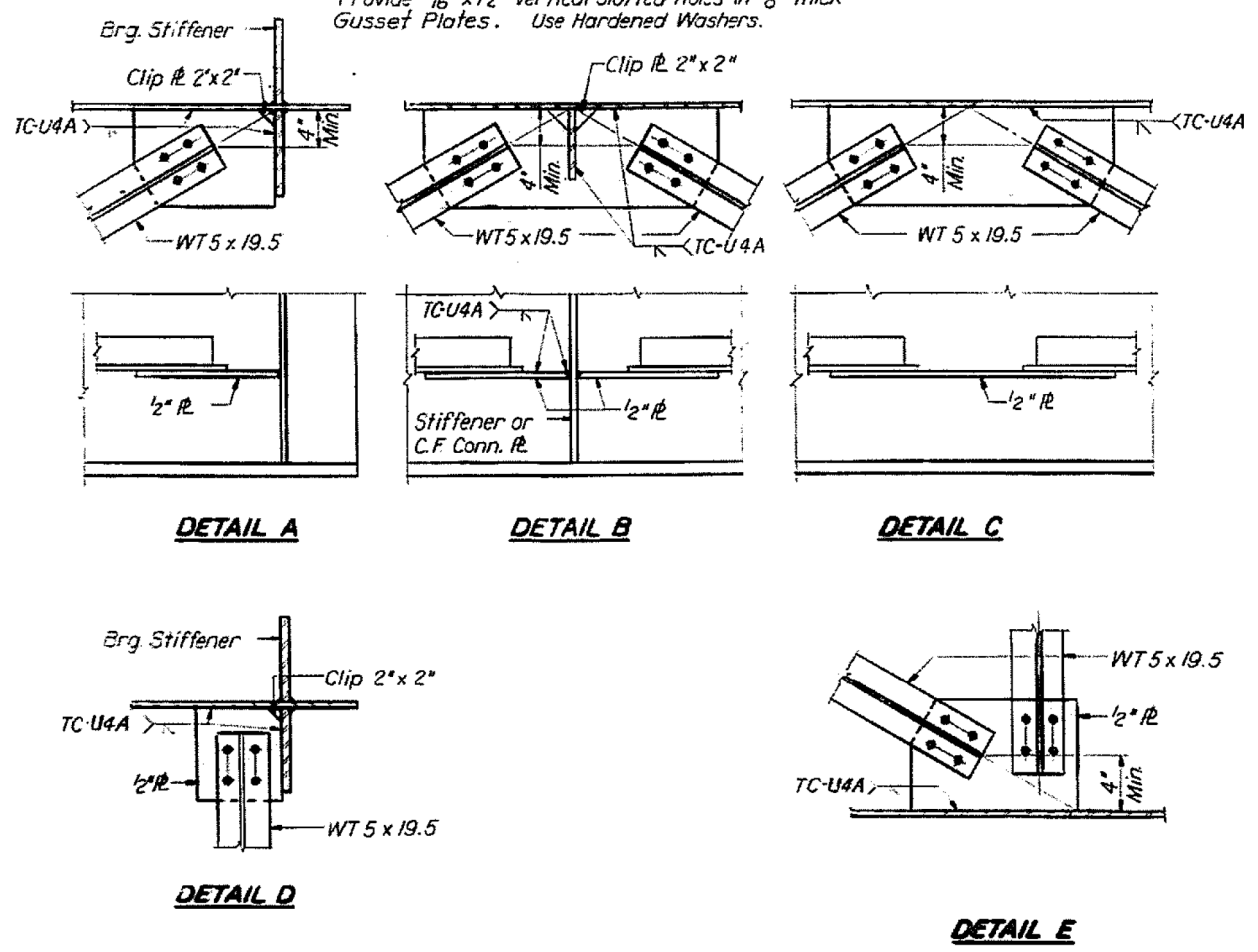
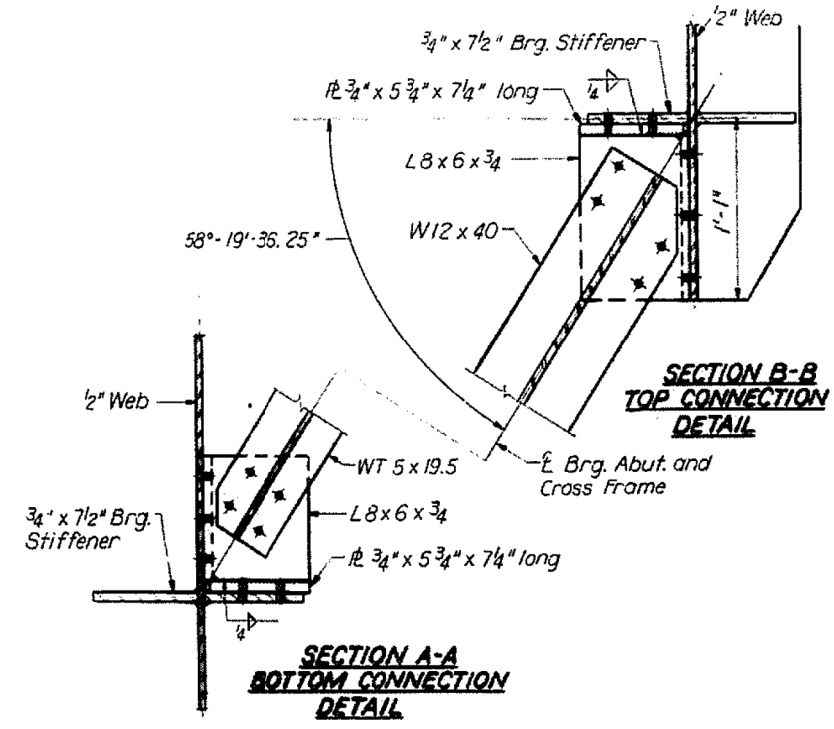


CROSS FRAME CF

¹/₁₆" Holes in angles and plates for ³/₄" bolts
Use Hardened Washers
(10 Required)

CROSS FRAME CF1

(75 Required)
Provide ¹/₁₆" x ¹/₂" Vertical Slotted Holes in ³/₈" thick
Gusset Plates. Use Hardened Washers.



FIELD SPLICE DETAIL

(Use ⁷/₈" H.S. Bolts)

NOTES:
All splice plates shall conform to the Supplemental Requirements for Notch Toughness (Zone 2).
All flange splice plates shall conform to AASHTO M223 Grade 50.
All bolts connecting Cross Frame CF1 shall be brought to a "snug tight" condition first, and then tightened to develop minimum bolt tension after concrete deck has been poured.

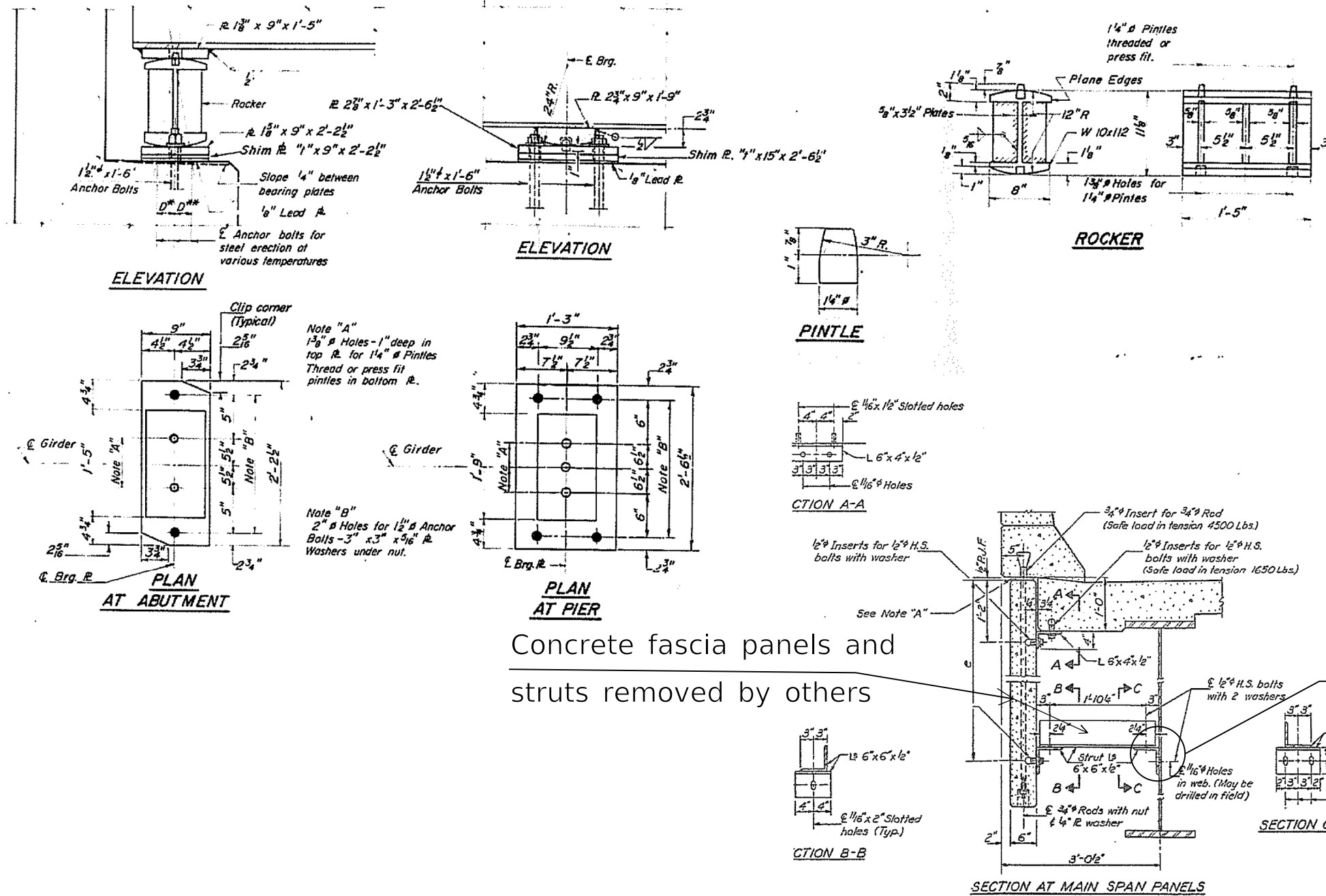
STRUCTURAL STEEL DETAILS
F.A.T. ROUTE 74
SECTION 90-14 HB-3 (BR)
TAZEVELL COUNTY
STATION 488+09.06

INFORMATION ONLY

MODEL: SMOBELNAMES
FILE NAME: STEELS

| | | | | | | | | | | | | |
|---------------------|------------|-----------|--------|---|---------------------------------|---------------------------|----------|--------|--------------|-----------|----|------|
| USER NAME = SUSERS | DESIGNED - | REVISED - | | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | STRUCTURAL STEEL DETAILS | F.A.J. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | |
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| PLOT SCALE = SCALES | CHECKED - | REVISED - | | | | CONTRACT NO. 68E37 | | | | | | |
| PLOT DATE = SDATES | DATE - | REVISED - | | | | ILLINOIS FED. AID PROJECT | | | | | | |
| | | | | | | SCALE: | SHEET | OF | SHEETS | STA. | TO | STA. |

SN 090-0117 CH 22 OVER I-74 INFORMATION ONLY



Concrete fascia panels and struts removed by others

74 clips to be removed and new H.S. bolts to be installed (See Special Provisions)

MODEL: SMOBELNAMES
FILE NAME: STILES

| | | |
|----------------------|------------|-----------|
| USER NAME = SUSERS | DESIGNED - | REVISED - |
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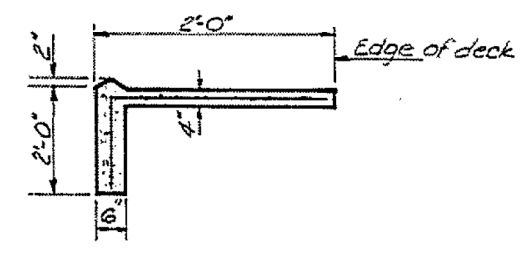
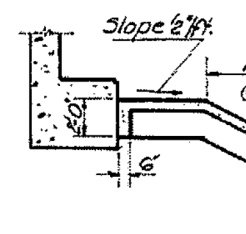
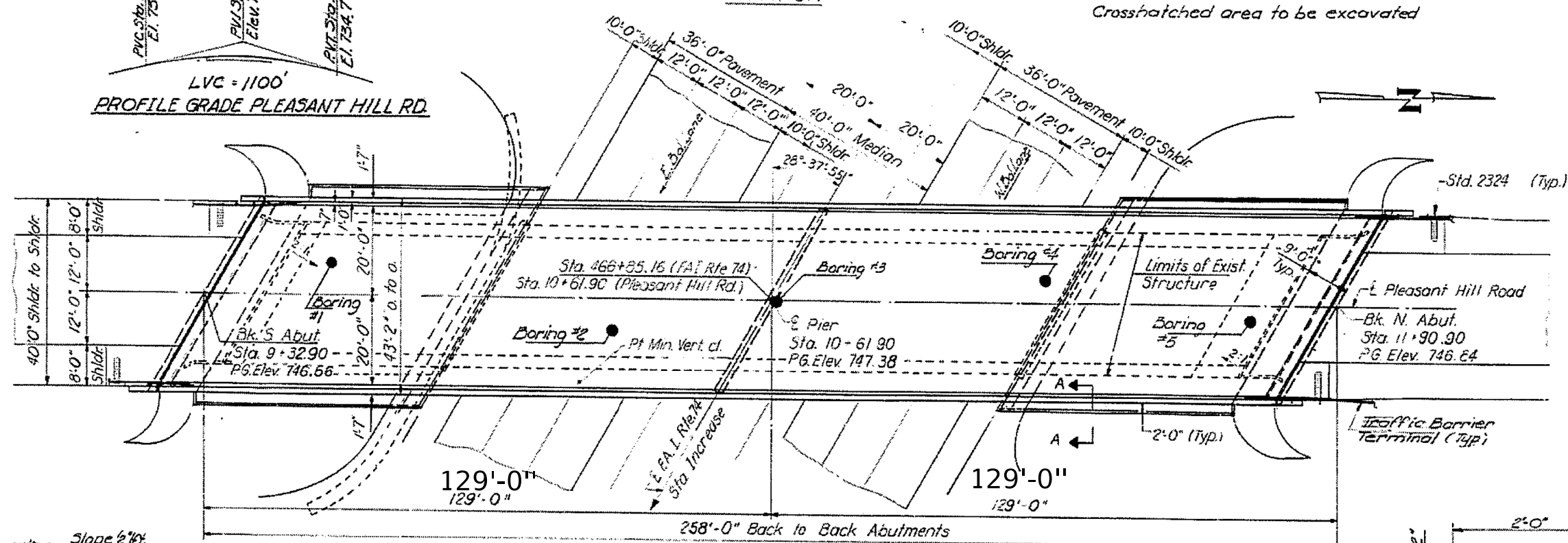
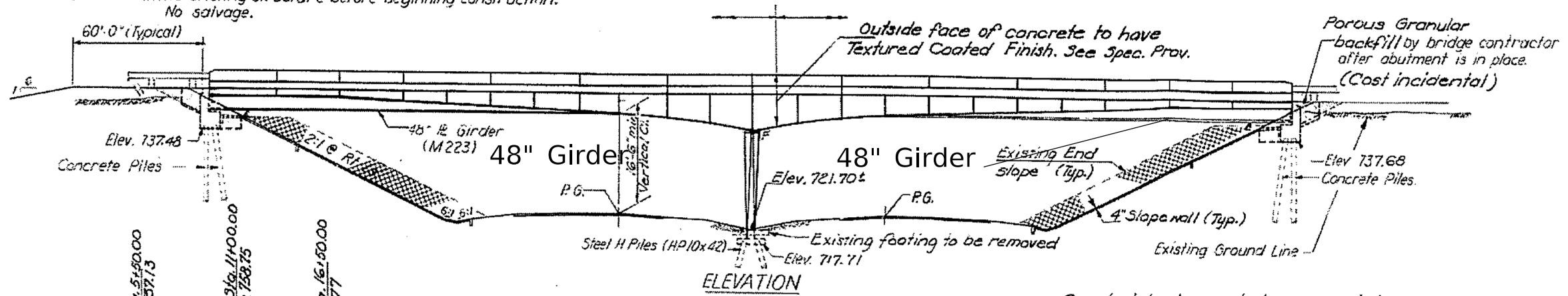
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BEARING DETAILS AND CLIP REMOVAL DETAILS

| | | | | |
|-------------|-------------------------|-----------------|--------------------|-----------|
| F.A.J. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 8 |
| | | | CONTRACT NO. 68E37 | |
| SCALE: | | SHEET OF SHEETS | STA. | TO STA. |
| | | ILLINOIS | FED. AID PROJECT | |

SN 090-0116 PLEASANT HILL ROAD OVER I-74

Contractor shall remove existing structure before beginning construction.
No salvage.



INFORMATION ONLY

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FILE: NAMED: STILES

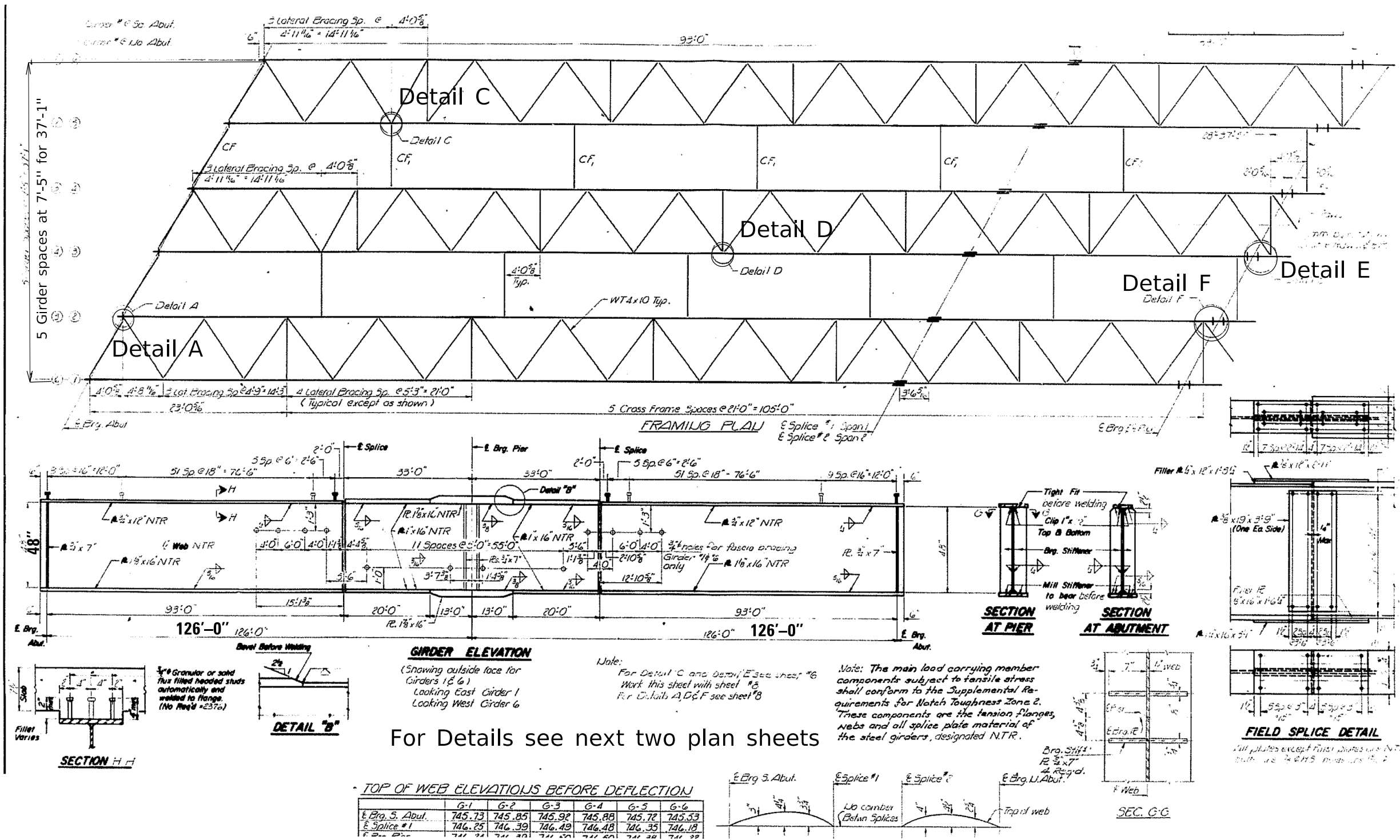
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| PLOT DATE = SDATES | CHECKED - | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | |
|--------------------------------|------------------------------|
| PLAN AND ELEVATION VIEW | |
| SCALE: | SHEET OF SHEETS STA. TO STA. |

| | | | | |
|---------------------------|-------------------------|----------|--------------|-----------|
| F.A.J. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 9 |
| CONTRACT NO. 68E37 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SN 090-0116 PLEASANT HILL ROAD OVER I-74



For Details see next two plan sheets

INFORMATION ONLY

MODEL: SHOBELNAMES
FILE NAME: STEELS

| | | |
|---------------------|------------|-----------|
| USER NAME = SUsers | DESIGNED - | REVISED - |
| DRAWN - | REVISED - | |
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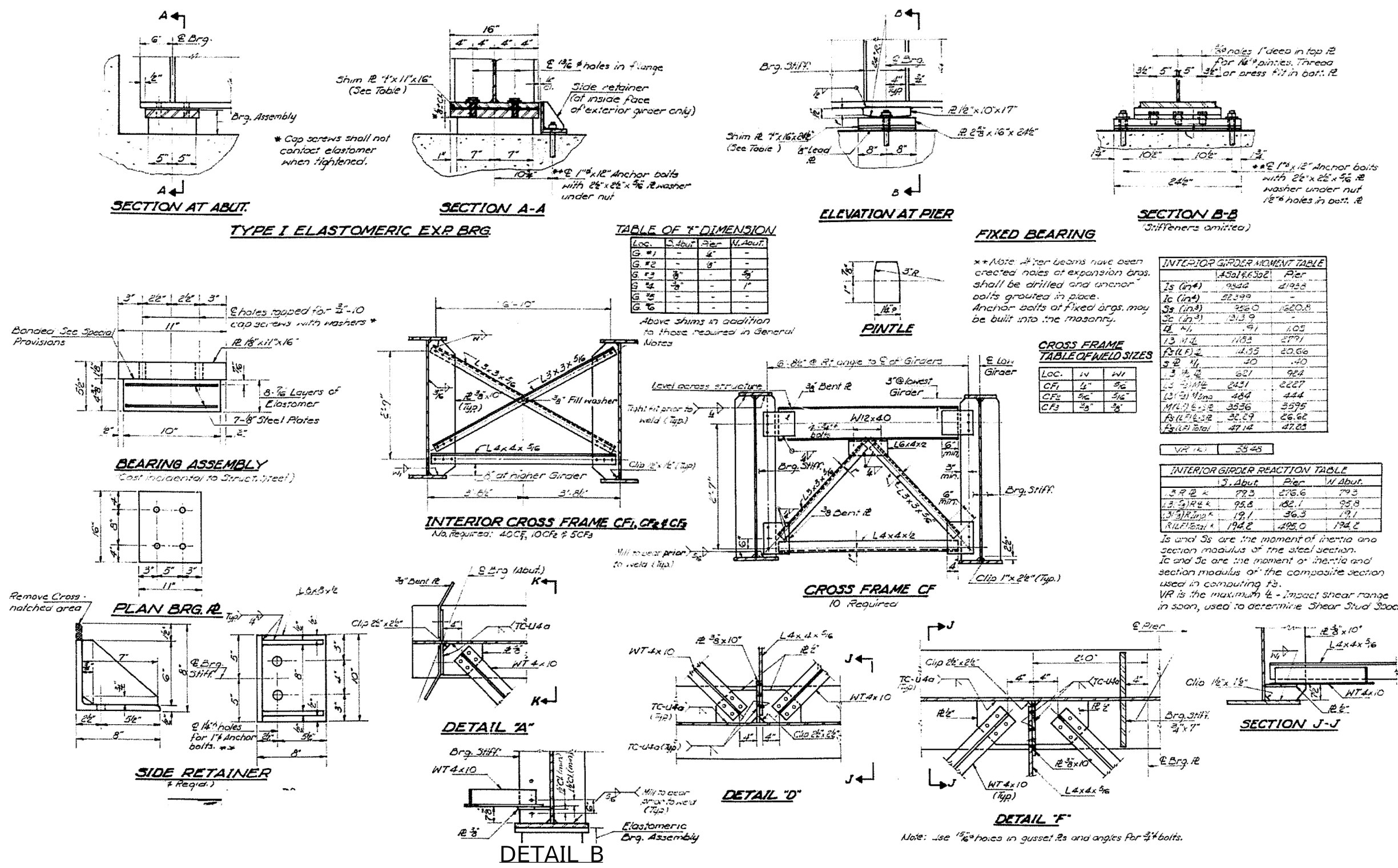
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FRAMING PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|-------------------------|----------|--------------|-----------|
| F.A.J. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 10 |
| CONTRACT NO. 68E37 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SN 090-0116 PLEASANT HILL ROAD OVER I-74



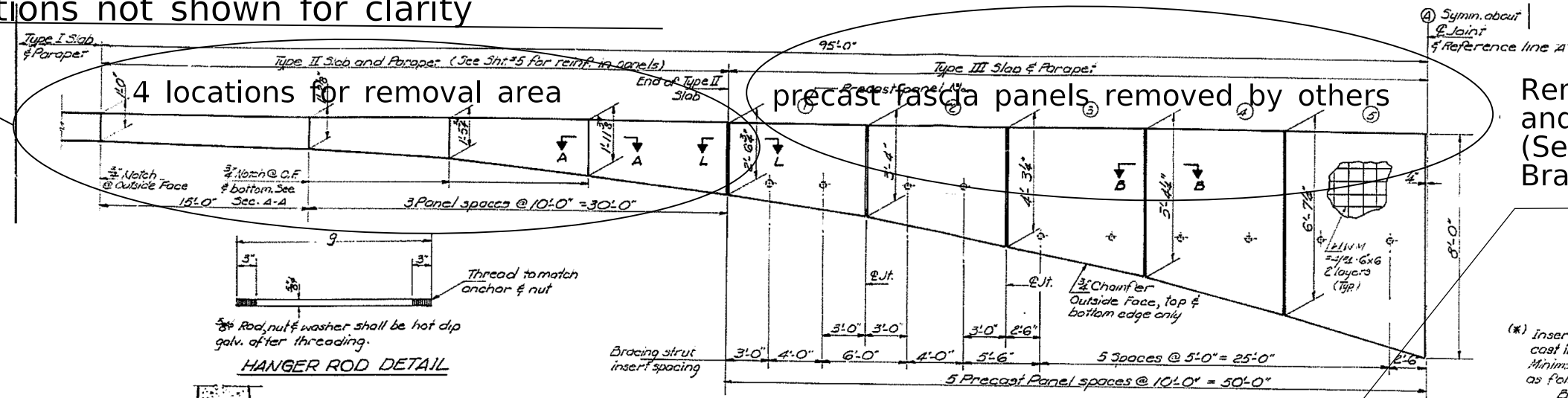
INFORMATION ONLY

MODEL: SMOBELNAMES
FILE NAME: STEELS

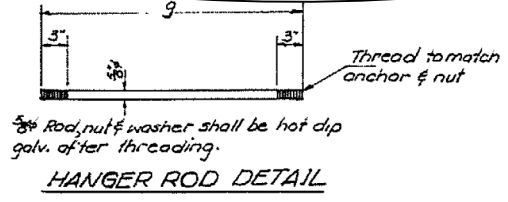
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| USER NAME = SUSERS | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | STRUCTURAL STEEL DETAILS | F.A.J. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| PLOT SCALE = SSCALE5 | DRAWN - | REVISED - | | | 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 11 | |
| PLOT DATE = SDATES | CHECKED - | REVISED - | | | CONTRACT NO. 68E37 | | | | | |
| | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | |

45 feet of saw cut per location
 Total of 4 locations for this structure
 180 liner feet of saw cut.
 other locations not shown for clarity

SN 090-0116 PLEASANT HILL ROAD OVER I-74

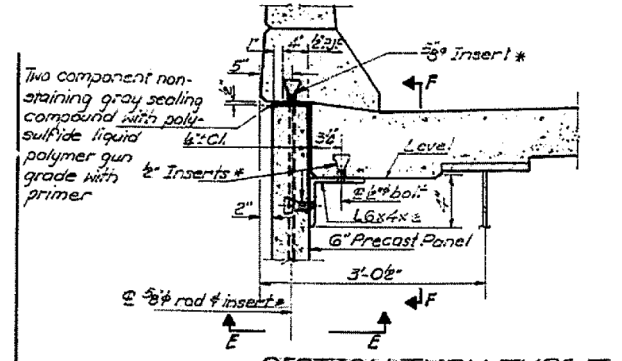


Remove 40 clip angles and install new H.S. bolts.
 (See Special Provisions)
 Bracing strut removed by others

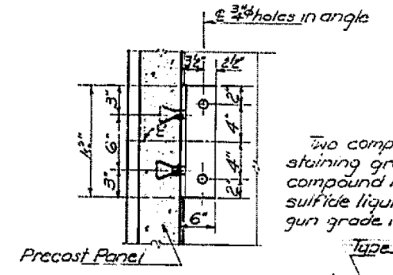


HALF ELEVATION OF FASCIA PANELS
 (Showing outside face)

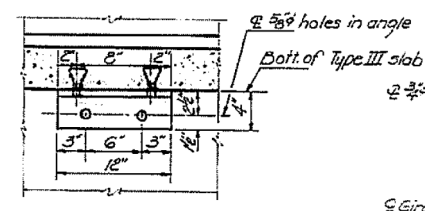
(* Inserts shall be fire-die coil loop type & cast in place. Minimum working load capacities (lbs.) are as follows: (for f'c = 3500 psi)
 Bolt size Pull-out Shear
 1/2" 2500 1600
 3/8" 4000 (N/A)



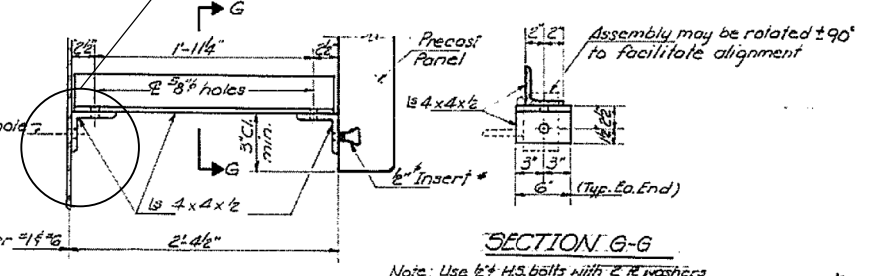
SECTION THRU TYPE III SLAB AT BRACKET SUPPORT



VIEW E-E

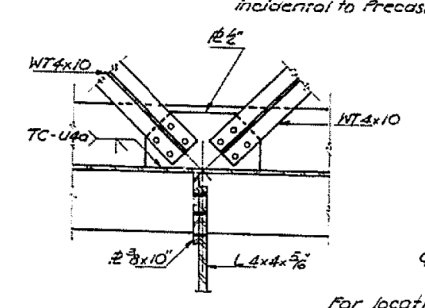


VIEW F-F

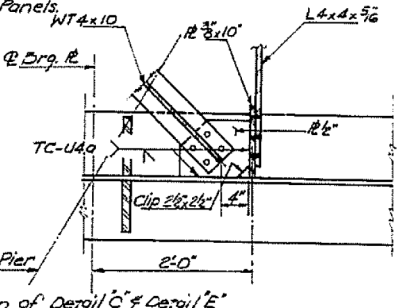


BRACING STRUT DETAIL

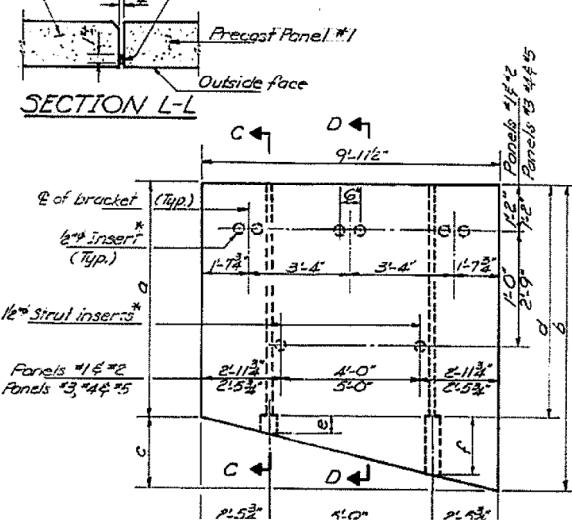
Note: Use 1/2" H.S. bolts with 2" R washers for Ea. bracing strut connection.



DETAIL C-C



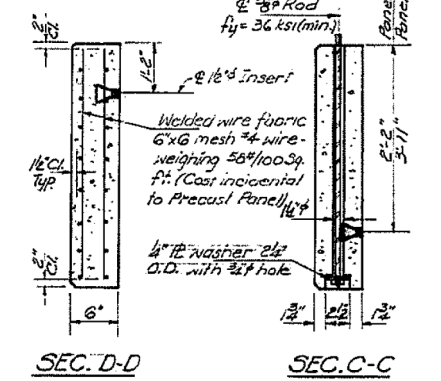
DETAIL E-E



SECTION L-L

TABLE OF PANEL DIMENSIONS

| Panel No. | 1 | 2 | 3 | 4 | 5 |
|-----------|-----------|-----------|-----------|-----------|-----------|
| a | 2'-6 3/4" | 3'-4" | 4'-3 1/4" | 5'-4 1/4" | 6'-7 1/4" |
| b | 3'-4" | 4'-3 1/4" | 5'-4 1/4" | 6'-7 1/4" | 8'-0" |
| c | 9 1/2" | 11 1/4" | 1'-1" | 1'-3" | 1'-4 3/4" |
| d | 2'-6" | 3'-3" | 4'-3" | 5'-4" | 6'-6" |
| e | 3" | 3 3/8" | 3 1/2" | 4" | 5 1/2" |
| f | 7 1/2" | 9 3/8" | 10" | 11 1/2" | 12 1/8" |
| g | 2'-10" | 3'-7" | 4'-7" | 5'-8" | 6'-10" |



SEC. D-D

SEC. C-C

INFORMATION ONLY

MODEL: SMOBELNAMES FILE NAME: STILES

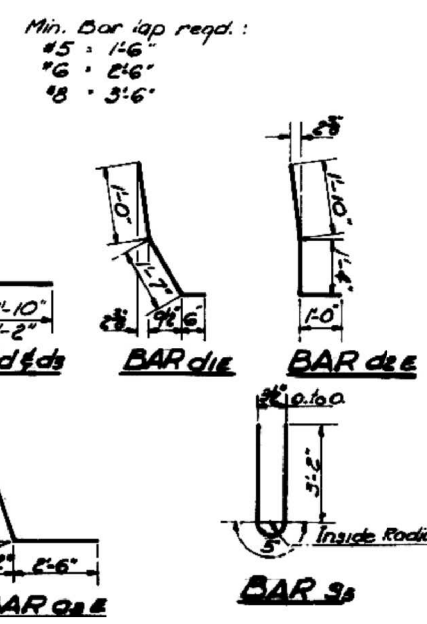
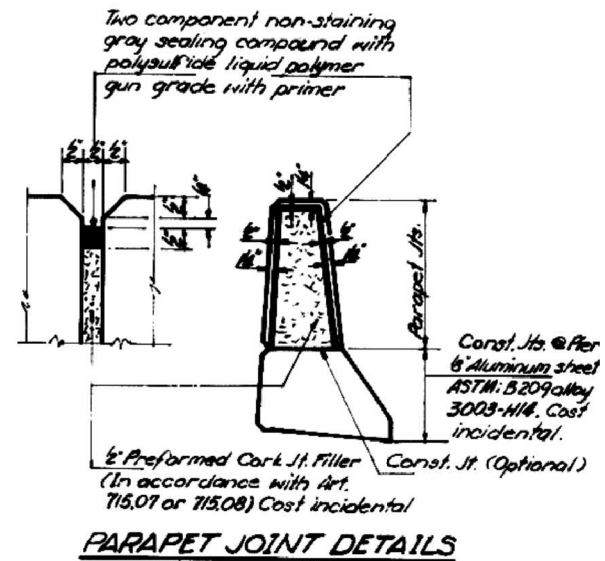
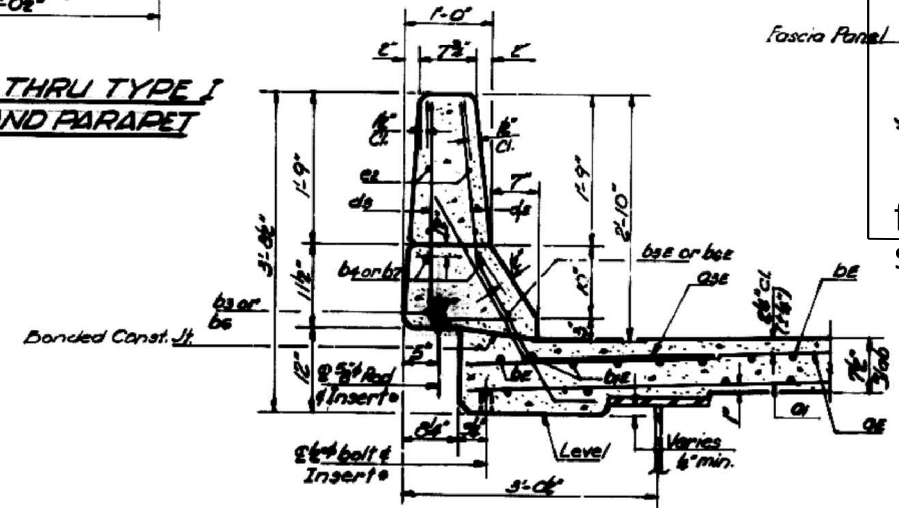
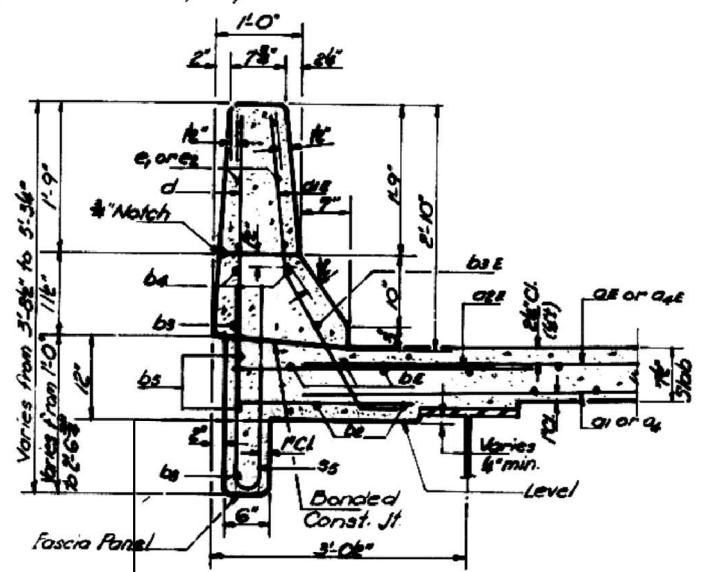
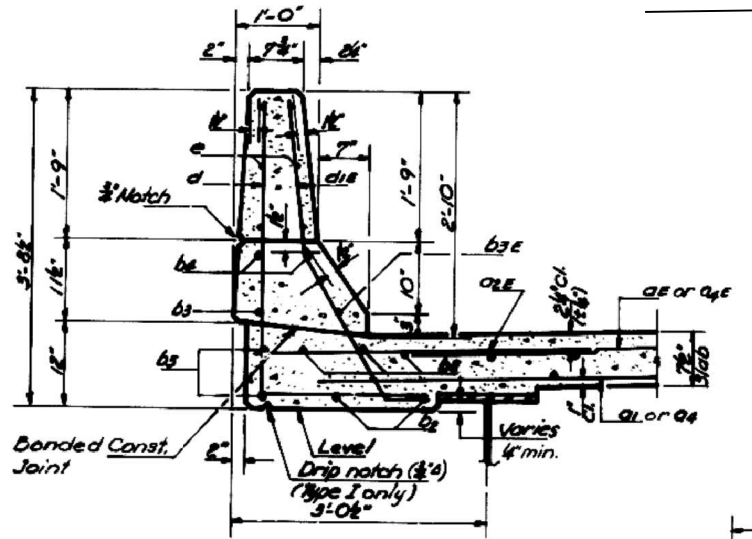
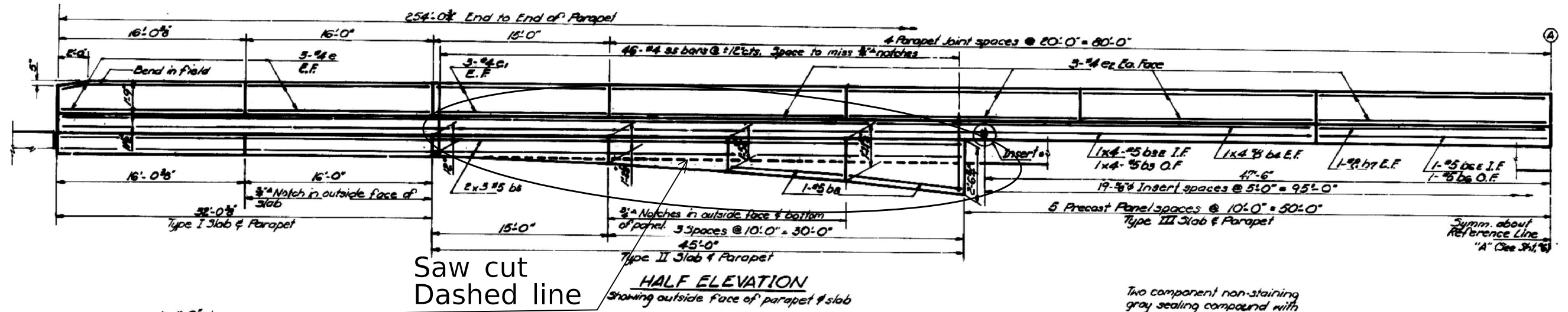
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| USER NAME = SUSERS | DESIGNED - | REVISED - |
| PLOT SCALE = SSCALE5 | DRAWN - | REVISED - |
| PLOT DATE = SDATES | CHECKED - | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | |
|--------------------------------------|------------------------------|
| FASCIA PANEL AND CLIP REMOVAL | |
| SCALE: | SHEET OF SHEETS STA. TO STA. |

| | | | | |
|--------------------|------------------------|----------|------------------|-----------|
| F.A.J. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 474/74 | D4 BRIDG PAINTING 2019 | TAZEWELL | 50 | 12 |
| CONTRACT NO. 68E37 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |

SN 090-0116 PLEASANT HILL ROAD OVER I-74



INFORMATION ONLY

| | | |
|---------------------|------------|-----------|
| USER NAME = SUSERS | DESIGNED - | REVISED - |
| PLOT SCALE = SCALES | DRAWN - | REVISED - |
| PLOT DATE = SDATES | CHECKED - | REVISED - |
| | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

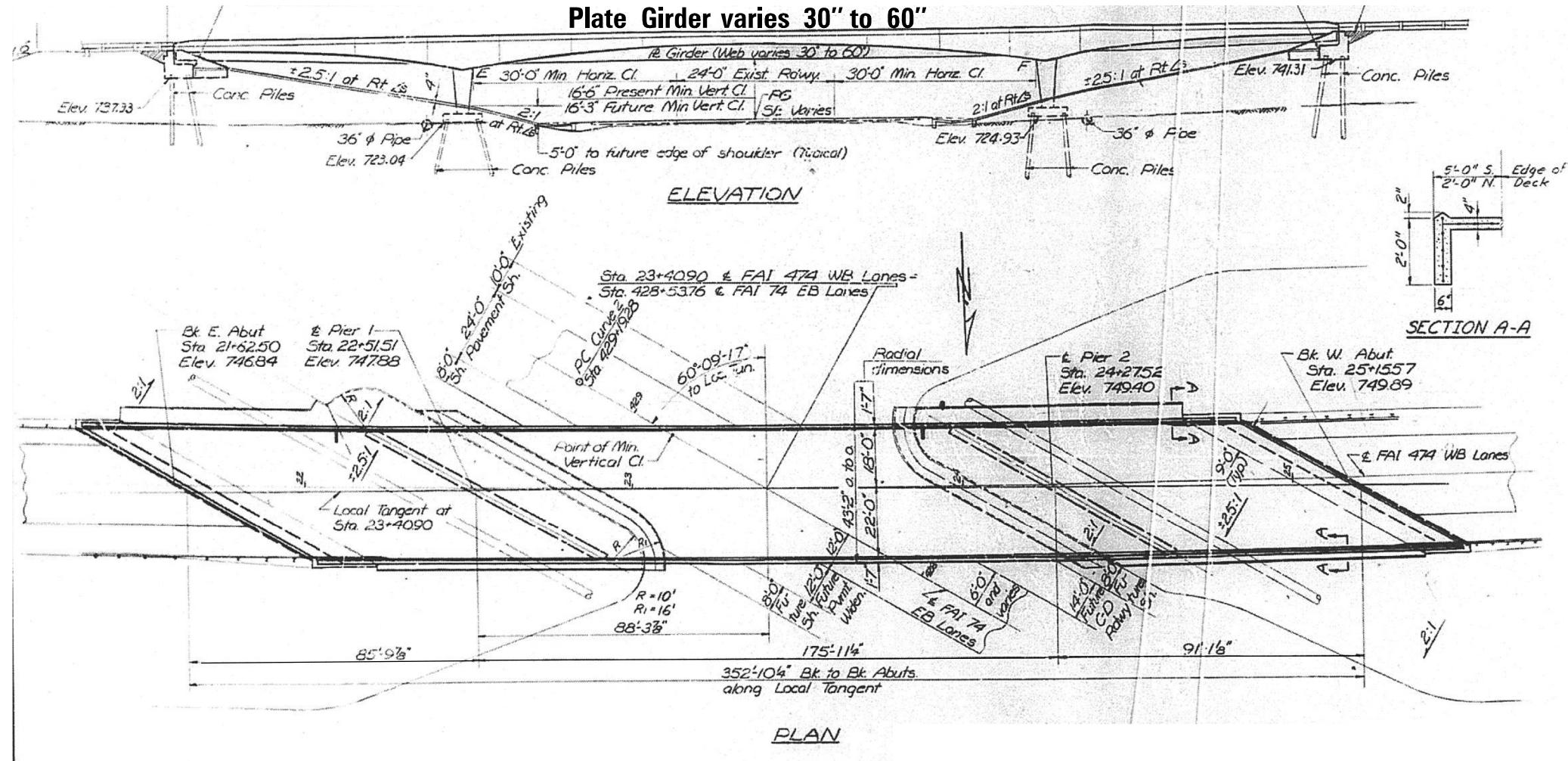
FULL DEPTH SAW CUT ON PARAPET

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|-------------------------|----------|--------------|-----------|
| F.A.J. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 13 |
| CONTRACT NO. 68E37 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SN 090-0102 WB I-474 OVER EB I-74

Plate Girder varies 30" to 60"



INFORMATION ONLY

MODEL: S:\MODELS\MAMES
FILE: MAMES_31113

| | | |
|--------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$\$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATES | DATE - | REVISED - |

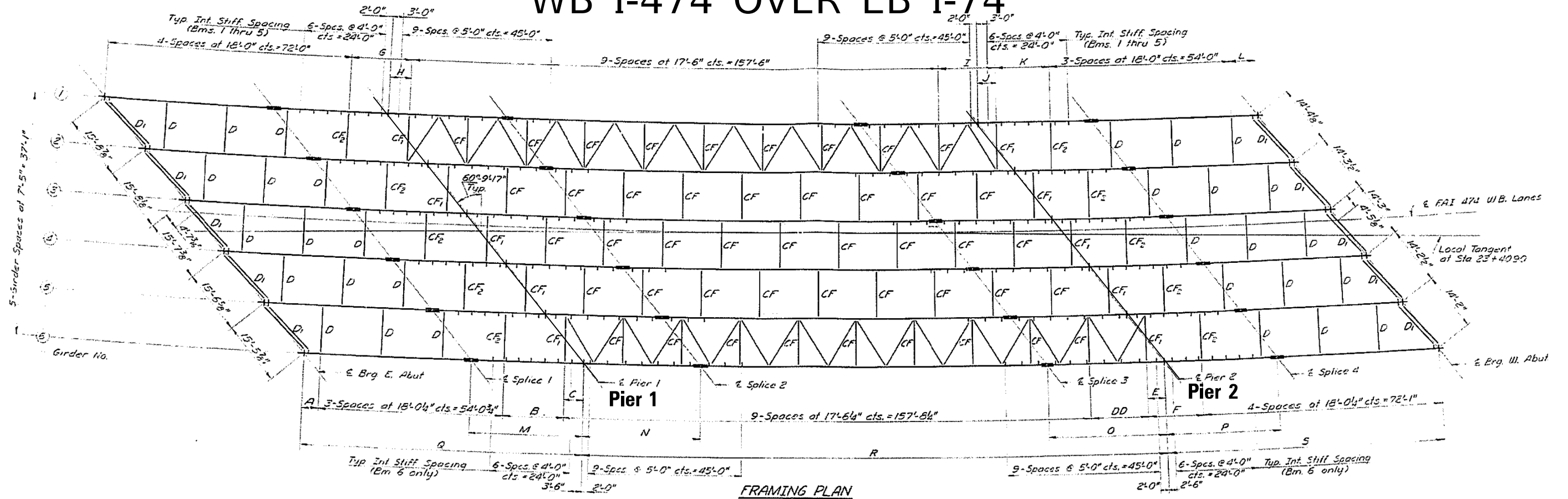
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN AND ELEVATION VIEW

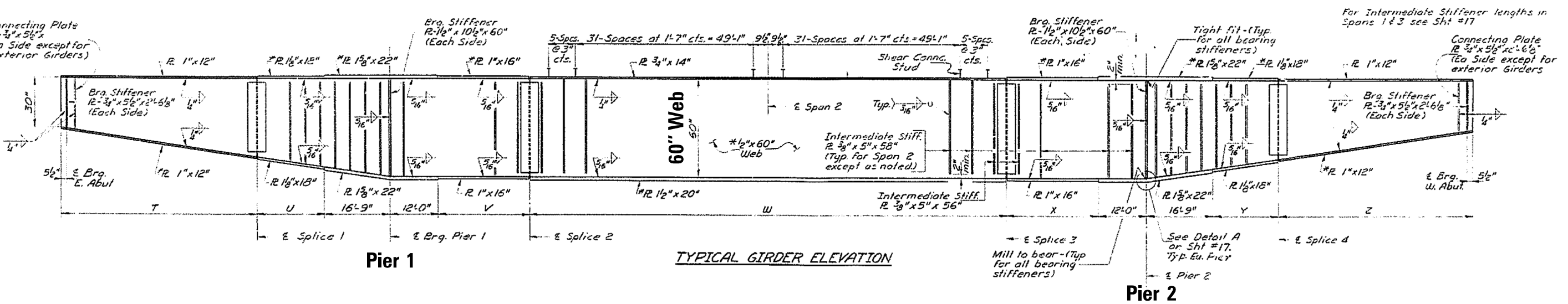
SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.J. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------------|----------|--------------|-----------|
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 14 |
| CONTRACT NO. 68E37 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SN 090-0102 WB I-474 OVER EB I-74



| | Radius | A | B | C | DD | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|----------|---------|-----------|------------|-----------|-------------|-----------|-------------|------------|-----------|-------------|-----------|-------------|------------|-------------|-------------|------------|------------|------------|--------------|-------------|-------------|------------|-------------|--------------|------------|-------------|-------------|
| Girder 1 | 6531.55 | | | | | | | 18'-1" | 6'-8 1/2" | 21'-6 1/2" | 6'-3 3/4" | 16'-10 1/4" | 5'-8 1/2" | 33'-5 5/8" | 35'-11 3/8" | 34'-7 1/2" | 31'-7 1/2" | 83'-4 1/2" | 179'-5 7/8" | 82'-10 1/2" | 50'-4 3/8" | 16'-8 3/8" | 23'-11 3/8" | 108'-9 3/8" | 22'-7 1/2" | 14'-10 1/2" | 51'-8 3/8" |
| Girder 2 | 6538.96 | 4'-1 1/2" | 18'-1 3/4" | 6'-8 3/4" | 21'-6 1/2" | 6'-3 3/4" | 16'-10 3/8" | 17'-8 1/2" | 6'-8 5/8" | 20'-10 1/4" | 6'-3 1/2" | 16'-6 3/8" | 5'-9 3/8" | 33'-4 1/2" | 35'-10 1/8" | 34'-6 1/2" | 31'-6 1/2" | 83'-0 1/2" | 178'-9 1/8" | 82'-7 1/2" | 50'-1 1/2" | 16'-7 1/2" | 23'-10 1/2" | 108'-5 1/2" | 22'-6 1/2" | 14'-9 1/2" | 51'-6 1/2" |
| Girder 3 | 6546.38 | 4'-2 1/2" | 17'-9 1/4" | 6'-8 3/8" | 20'-10 1/4" | 6'-3 1/2" | 16'-6 3/8" | 17'-4 3/8" | 6'-7 1/2" | 20'-3 1/2" | 6'-3 1/2" | 16'-3 1/4" | 5'-10 1/4" | 33'-2 5/8" | 35'-8 1/2" | 34'-4 3/4" | 31'-5" | 82'-8 1/2" | 178'-2 1/4" | 82'-4 1/4" | 49'-11 3/8" | 16'-5 3/8" | 23'-8 1/2" | 108'-1" | 22'-4 3/4" | 14'-8" | 51'-4 3/4" |
| Girder 4 | 6553.80 | 4'-3 1/4" | 17'-4 1/8" | 6'-8" | 20'-3 3/8" | 6'-3 1/4" | 16'-3 1/4" | 17'-0 1/2" | 6'-7 3/8" | 19'-8 1/8" | 6'-2 3/4" | 15'-11 1/4" | 5'-10 3/8" | 33'-1 1/8" | 35'-7" | 34'-3 3/8" | 31'-3 3/8" | 82'-4 1/2" | 177'-6" | 82'-1 1/2" | 49'-9 3/8" | 16'-4 1/8" | 23'-7" | 107'-8 1/2" | 22'-3 3/8" | 14'-6 3/8" | 51'-2 1/2" |
| Girder 5 | 6561.22 | 4'-4 1/2" | 17'-0 3/4" | 6'-7 3/8" | 19'-8 1/8" | 6'-2 3/4" | 16'-0" | 16'-8 1/2" | 6'-7 3/8" | 19'-0 1/2" | 6'-2 1/2" | 15'-8 3/8" | 5'-11 3/8" | 32'-11 3/8" | 35'-5 1/2" | 34'-2" | 31'-2 3/8" | 82'-1 1/4" | 176'-11 1/8" | 81'-10 1/2" | 49'-7" | 16'-2 3/4" | 23'-5 1/2" | 107'-4 3/8" | 22'-2" | 14'-5 3/8" | 51'-1" |
| Girder 6 | 6568.63 | 4'-4 1/2" | 16'-8 1/2" | 6'-7 1/4" | 19'-0 1/2" | 6'-2 3/4" | | | | | | | | 32'-10 1/4" | 35'-4" | 34'-0 3/4" | 31'-1 1/2" | 81'-9 1/2" | 176'-4 1/2" | 81'-7 1/2" | 49'-0 1/2" | 16'-1 1/4" | 23'-4" | 106'-11 3/8" | 22'-0 3/4" | 14'-4 1/2" | 50'-11 1/2" |

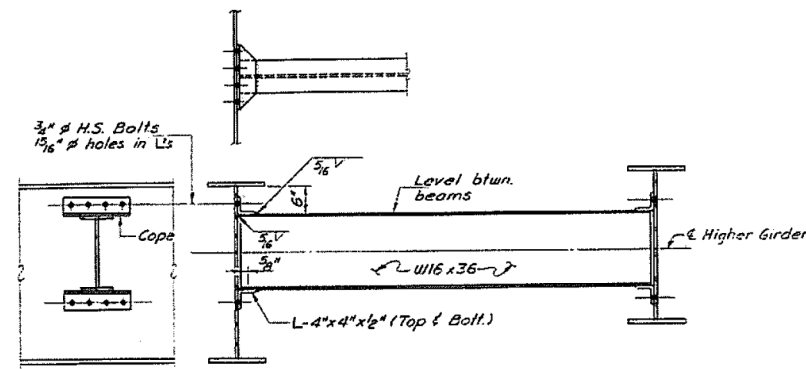


INFORMATION ONLY

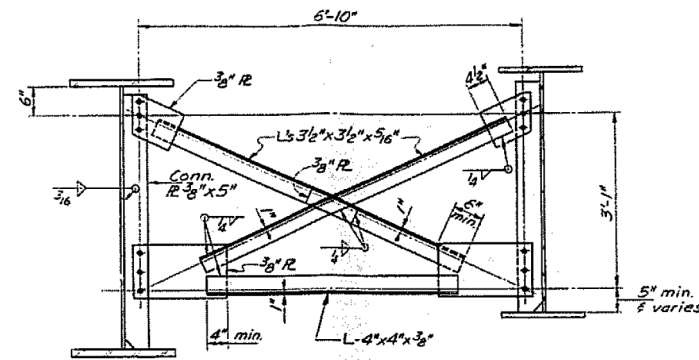
MODEL: SMODELNAMES
FILE NAME: STIFFELS

| | | | | | | | | | | | |
|-----------------------|------------|-----------|---|--------------------|-------------------------|-----------|------------------|---------|--------|--------------|-----------|
| USER NAME = SUSERS | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FRAMING PLAN | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| DRAWN - | CHECKED - | REVISED - | | 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 15 | | | |
| PLOT SCALE = \$SCALES | DATE - | REVISED - | | CONTRACT NO. 68E37 | | ILLINOIS | FED. AID PROJECT | | | | |
| PLOT DATE = \$DATES | | | | SCALE: | SHEET | OF SHEETS | STA. | TO STA. | | | |

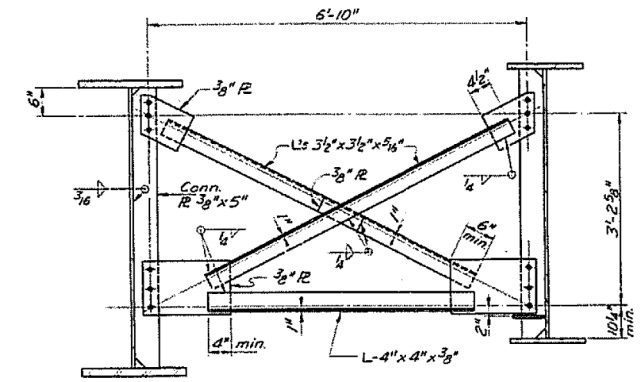
SN 090-0102 WB I-474 OVER EB I-74



DIAPHRAGM D
(30-Required)

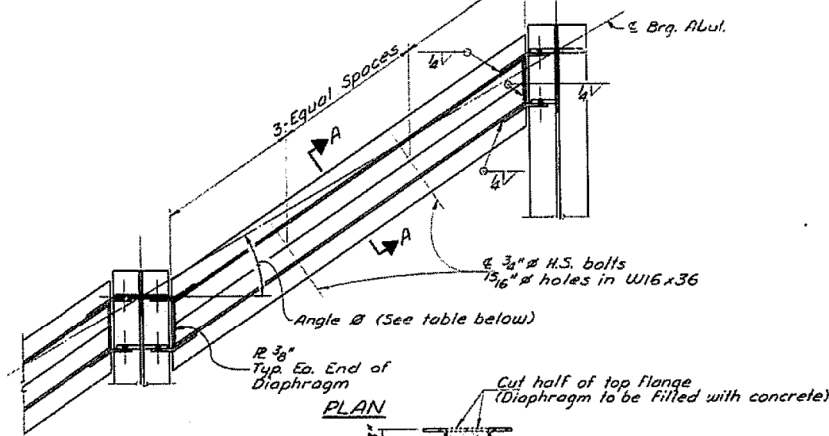
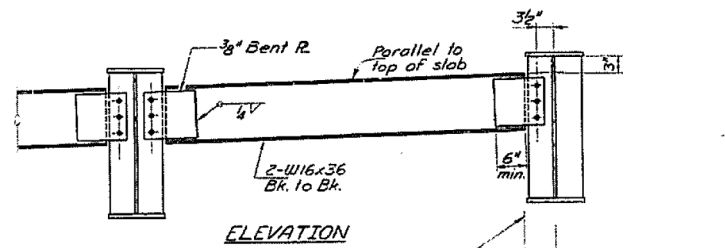


CROSS FRAME CF₂
(10-Required)

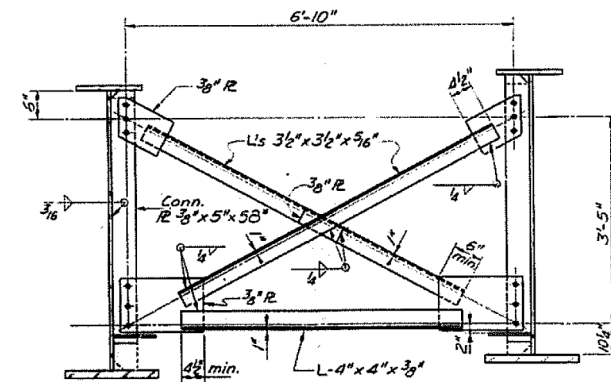


CROSS FRAME CF₁
(10-Required)

Note: Hardened washers shall be required over 1 5/8" ϕ holes in angles and gusset plates.

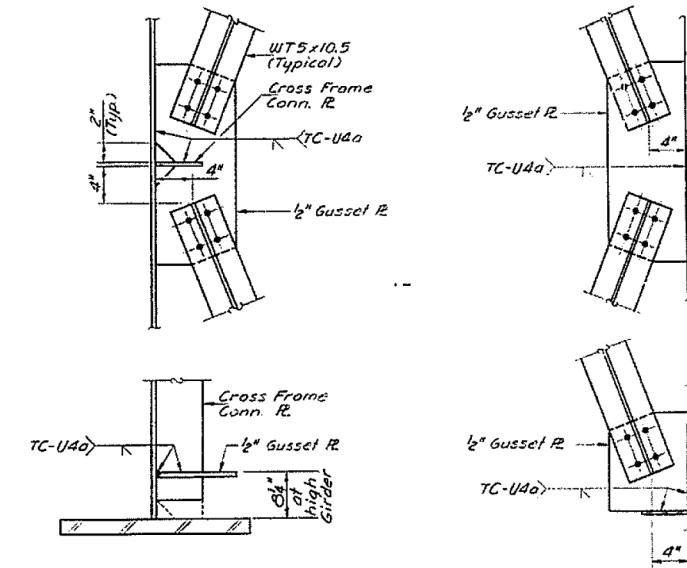


DIAPHRAGM D₁
(10-Required)



CROSS FRAME CF
(45-Required)

Note: The broken lines shown in the connecting plates indicate the shape that shall be used between splices 2 & 3.



ANGLE θ

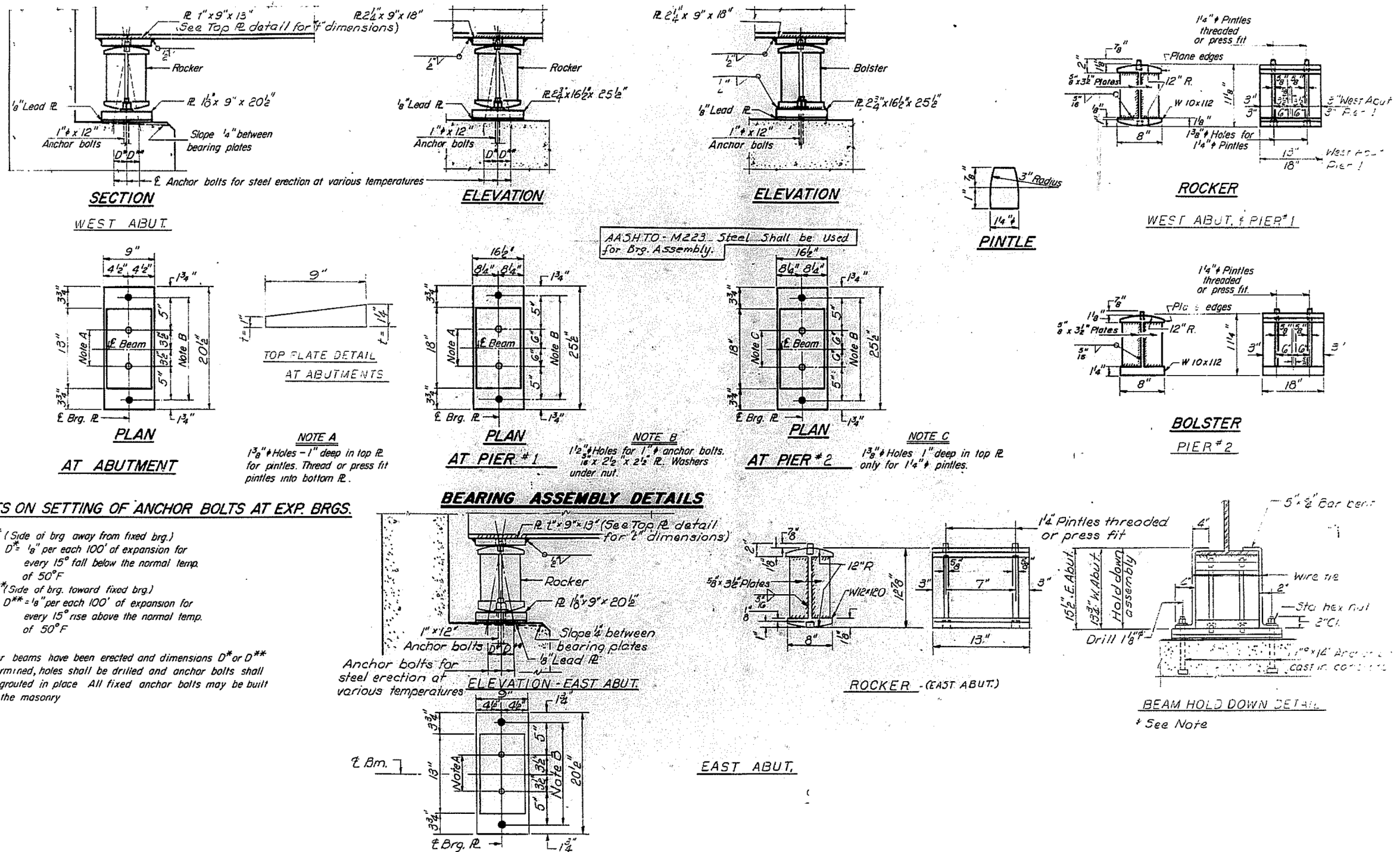
| | GIRDER | | | | | |
|------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| East Abut. | 28°-03'-36.36" | 28°-10'-54.36" | 28°-18'-09.64" | 28°-25'-22.28" | 28°-32'-32.27" | 28°-39'-39.60" |
| West Abut. | 31°-05'-32.82" | 31°-12'-00.15" | 31°-18'-25.40" | 31°-24'-48.63" | 31°-31'-09.84" | 31°-37'-29.02" |

INFORMATION ONLY

MODEL: SPODELNAMES
FILE NAME: SFILES

| | | | | | | | | | | | |
|-------------------------------------|------------|-----------|---|---------------------------------|--|--|---------------------------|----------|--------|--------------|-----------|
| USER NAME = SUSERS | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | STRUCTURAL STEEL DETAILS | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| DRAWN - | REVISED - | 474/74 | | | | | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 16 | |
| PLOT SCALE = \$SCALES | CHECKED - | REVISED - | | | | | CONTRACT NO. 68E37 | | | | |
| PLOT DATE = \$DATES | DATE - | REVISED - | | | | | ILLINOIS FED. AID PROJECT | | | | |
| SCALE: SHEET OF SHEETS STA. TO STA. | | | | | | | | | | | |

SN 090-0102 WB I-474 OVER EB I-74



AASHTO - M223 Steel Shall be Used for Brg. Assembly.

NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

D^* (Side of brg away from fixed brg.)
 $D^* = \frac{1}{8}$ " per each 100' of expansion for every 15° fall below the normal temp. of 50°F

D^{**} (Side of brg. toward fixed brg.)
 $D^{**} = \frac{1}{8}$ " per each 100' of expansion for every 15° rise above the normal temp. of 50°F

After beams have been erected and dimensions D^* or D^{**} determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry

INFORMATION ONLY

MODEL: SMODELNAMES
FILE NAME: SFILES

| | | | | | | | | | | | | | | | | |
|-----------------------|------------|-----------|---|--|------------------------|----|--------|-------------|---------|----------|--------------------|-----------|-------------------------|----------|----|----|
| USER NAME = SUSERS | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | | BEARING DETAILS | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | | | |
| PLOT SCALE = \$SCALES | CHECKED - | REVISED - | SCALE: | | SHEET | OF | SHEETS | STA. | TO STA. | ILLINOIS | FED. AID PROJECT | 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 17 |
| PLOT DATE = \$DATES | DATE - | REVISED - | | | | | | | | | CONTRACT NO. 68E37 | | | | | |

SN 090-0102 WB I-474 OVER EB I-74

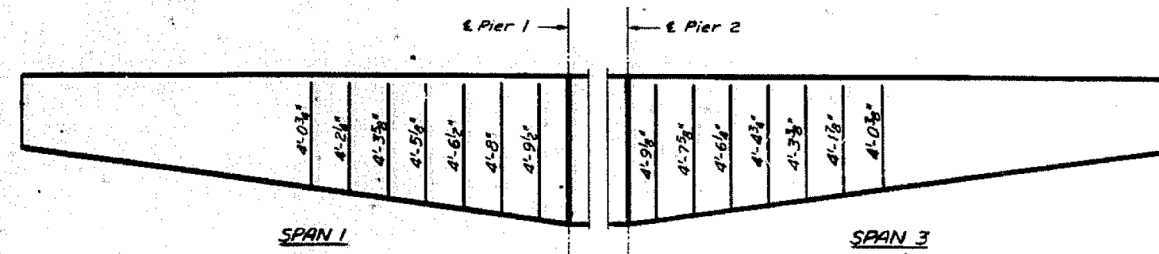
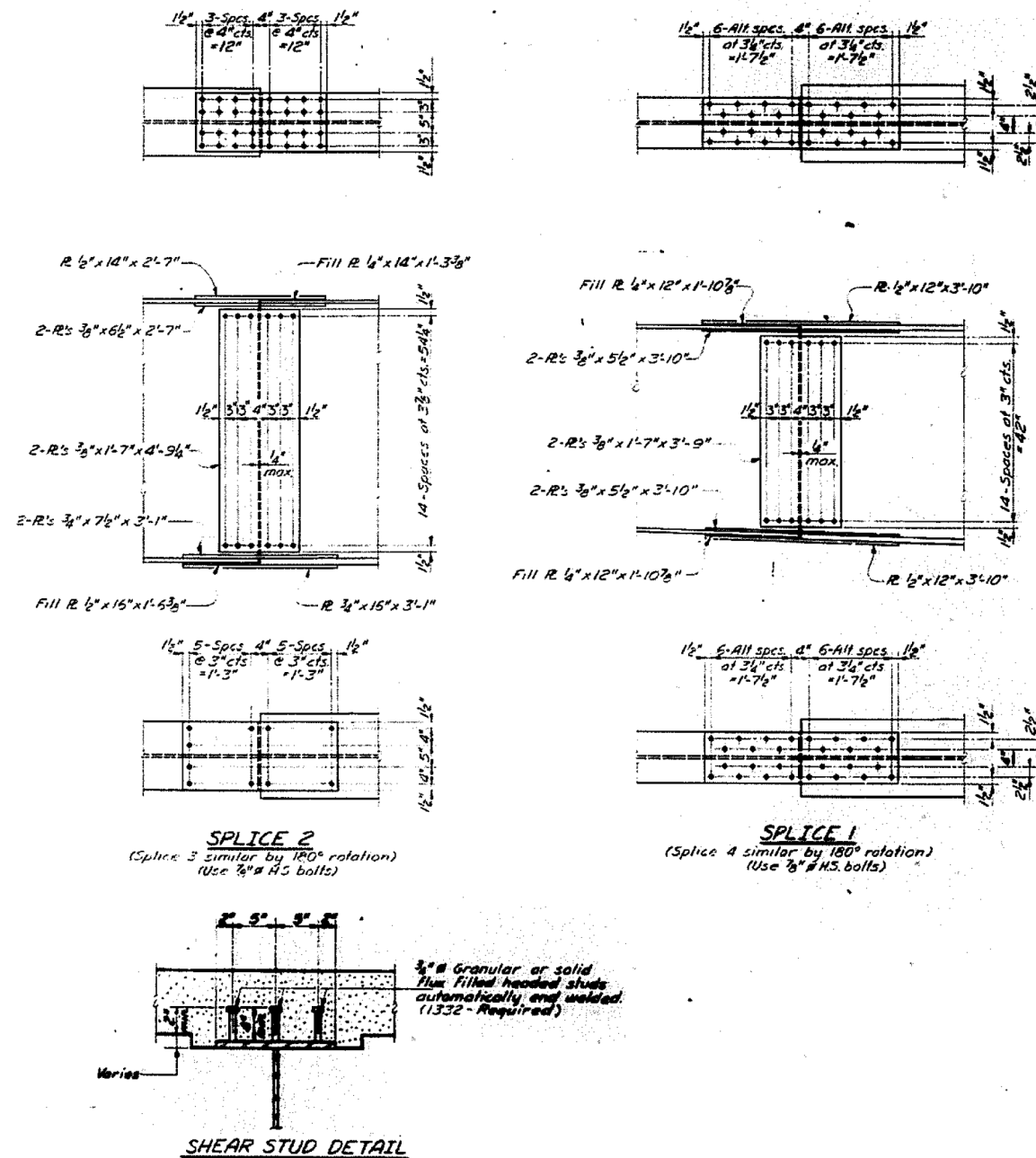
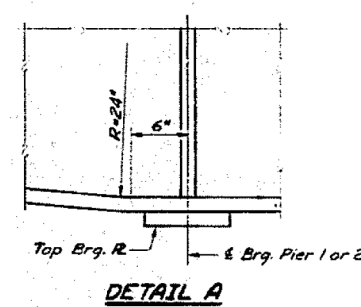


PLATE LENGTHS-INTERMEDIATE STIFFENERS



DETAIL A

INTERIOR GIRDER MOMENT TABLE

| | .6 Span 1 or .4 Span 3 | Pier 1 or 2 | .5 Span 2 |
|--------------------------|------------------------|-------------|-------------|
| I_s (in ⁴) | 15303 | 7119 | 41893 |
| I_c (in ⁴) | | | 108440 |
| S_s (in ³) | 618 | 2267 | 1826 |
| S_c (in ³) | | | 2434 |
| R (k/ft) | 1.321 | 1.552 | 0.999 |
| M_R (k) | 6.63 | 3090 | 16.88 |
| F_s (ksi) | 13.3 | 16.4 | 11.1 |
| S_R (k/ft) | | | 0.437 |
| M_S (k) | | | 899 |
| M_A (k) | 379 | 1196 | 1608 |
| M_{IMP} (k) | 91 | 233 | 267 |
| TOTAL (k) | 470 | 1429 | 2774 |
| F_s (ksi) | 9.1 | 7.6 | 13.7 |
| F_s TOTAL (ksi) | 22.4 | 24 | 24.8 |
| VR (k) | | | 57.8 |

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing F_s total.
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing F_s total.
 VR is the maximum \pm Impact shear range in span used to determine shear connector spacing.
 Composite in Span 2; Noncomposite in Spans 1 & 3.

(*)TOP OF WEB ELEVATIONS

| LOCATION | GIRDER | | | | | |
|-------------------|---------|---------|---------|---------|---------|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| € Brg. East Abut. | 745.277 | 745.683 | 746.084 | 746.478 | 746.868 | 747.253 |
| € Splice 1 | 745.795 | 746.179 | 746.561 | 746.938 | 747.310 | 747.676 |
| € Brg. Pier 1 | 746.263 | 746.637 | 747.006 | 747.369 | 747.728 | 748.082 |
| € Splice 2 | 746.934 | 747.295 | 747.651 | 748.001 | 748.348 | 748.690 |
| € Splice 3 | 747.929 | 748.252 | 748.571 | 748.886 | 749.196 | 749.503 |
| € Brg. Pier 2 | 747.916 | 748.229 | 748.537 | 748.841 | 749.140 | 749.435 |
| € Splice 4 | 748.062 | 748.363 | 748.661 | 748.954 | 749.244 | 749.528 |
| € Brg. West Abut. | 748.504 | 748.790 | 749.070 | 749.348 | 749.621 | 749.891 |

(*)-For fabrication only

INTERIOR GIRDER REACTION TABLE

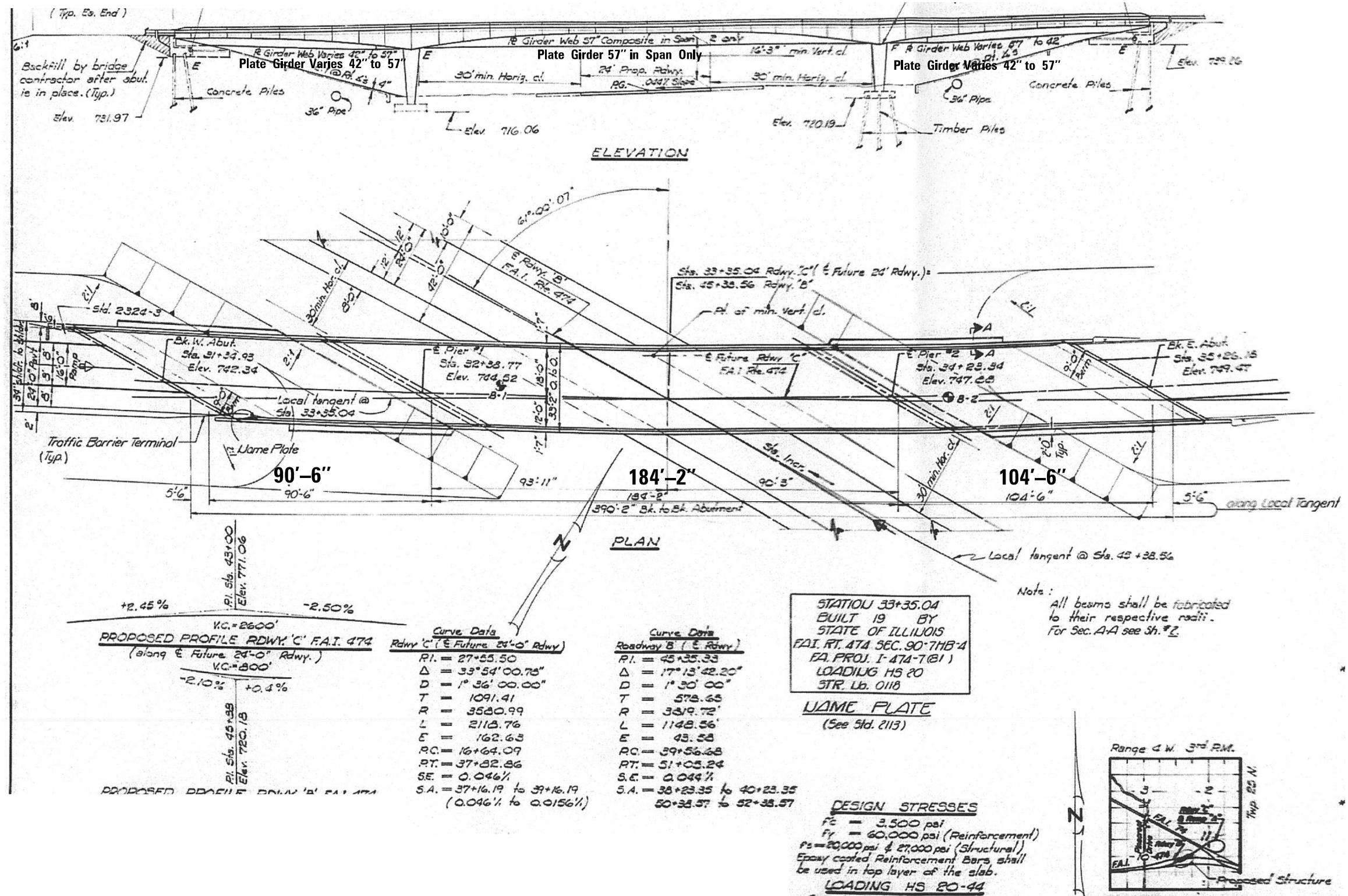
| | Abut | Pier |
|--------------------|------------|-------------|
| R_e (k) | 213 | 2229 |
| R_i (k) | 405 | 871 |
| $Imp.$ (k) | 57 | 17.0 |
| R TOTAL (k) | 715 | 3270 |

INFORMATION ONLY

MODEL: SN090-0102
FILE NAME: STS.DWG

| | | | | | | | | | | |
|------------------------|------------|-----------|--|---|---------------------------------|-------------|-------------------------|----------|--------------|---------------------------|
| USER NAME = SUSERS | DESIGNED - | REVISED - | | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | STRUCTURAL STEEL DETAILS | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| DRAWN - | REVISÉD - | | | | | 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 18 |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - | | | | | | | | CONTRACT NO. 68E37 |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - | | | | SCALE: | SHEET | OF | SHEETS | STA. TO STA. |
| | | | | | | | | | | ILLINOIS FED. AID PROJECT |

SN 090-0118 I-474 RAMP OVER WB I-474



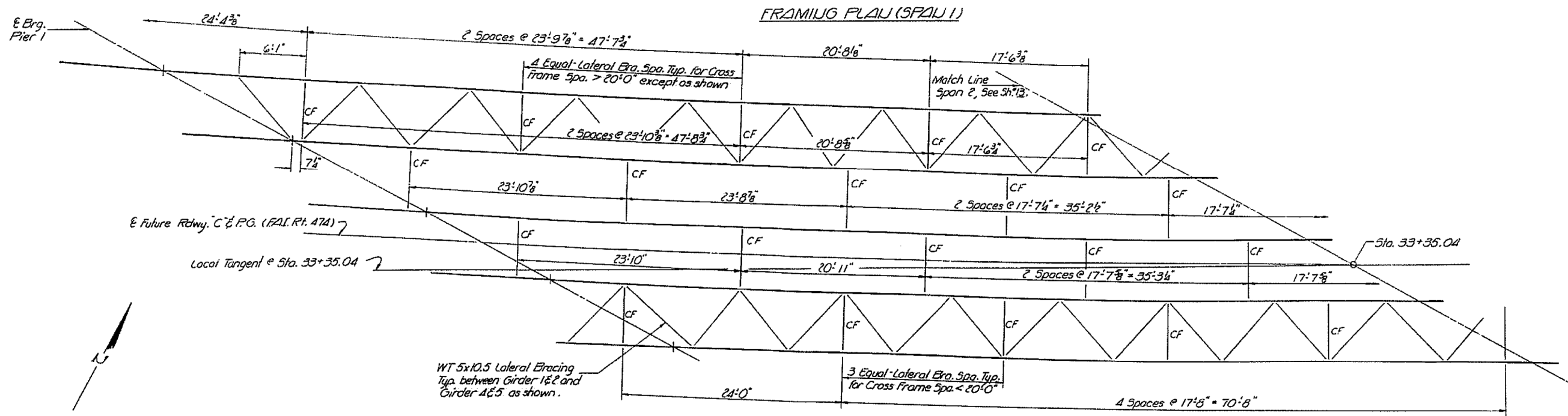
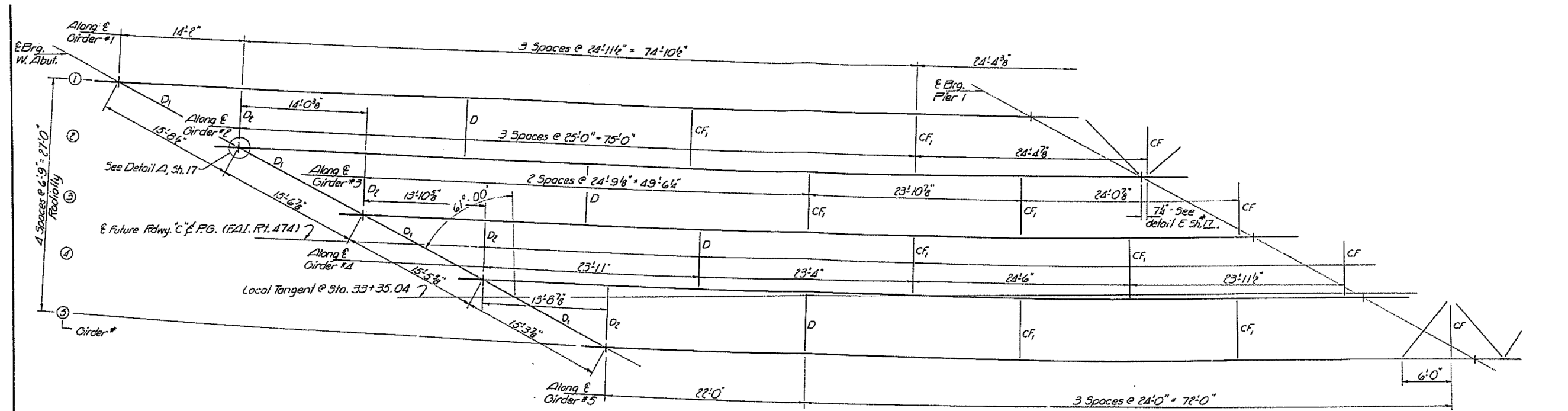
INFORMATION ONLY

MODEL: SMOELNAMES
FILE NAME: STILES

| | | | | | | | | | | | | | | |
|-----------------------|------------|-----------|--|---|--------------------------------|-------|----|--------|-------------|---------|--------|-------------------------|-----------|-------|
| USER NAME = \$USERS | DESIGNED - | REVISED - | | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PLAN AND ELEVATION VIEW | | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| | DRAWN - | REVISED - | | | SCALE: | SHEET | OF | SHEETS | STA. | TO STA. | 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 19 |
| PLOT SCALE = \$SCALES | CHECKED - | REVISED - | | | CONTRACT NO. 68E37 | | | | | | | | | |
| PLOT DATE = \$DATES | DATE - | REVISED - | | | ILLINOIS FED. AID PROJECT | | | | | | | | | |

SN 090-0118

I-474 RAMP OVER WB I-474



HALF-FRAMING PLAN (SFAU 2)

INFORMATION ONLY

MODEL: SPODELNAMES
FILE NAME: SFILES

| | | |
|----------------------|------------|-----------|
| USER NAME = SUsers | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE | CHECKED - | REVISED - |
| PLOT DATE = \$DATE | DATE - | REVISED - |

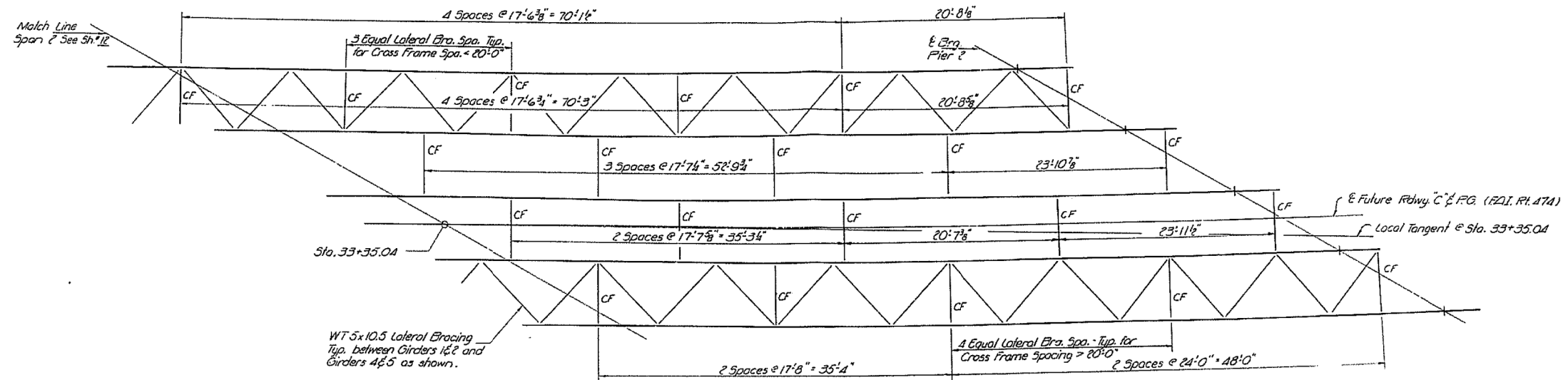
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | | |
|---------------------|-------|----|--------|--------------|
| FRAMING PLAN | | | | |
| SCALE: | SHEET | OF | SHEETS | STA. TO STA. |

| | | | | |
|-------------|-------------------------|---------------------------|--------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 20 |
| | | | CONTRACT NO. 68E37 | |
| | | ILLINOIS FED. AID PROJECT | | |

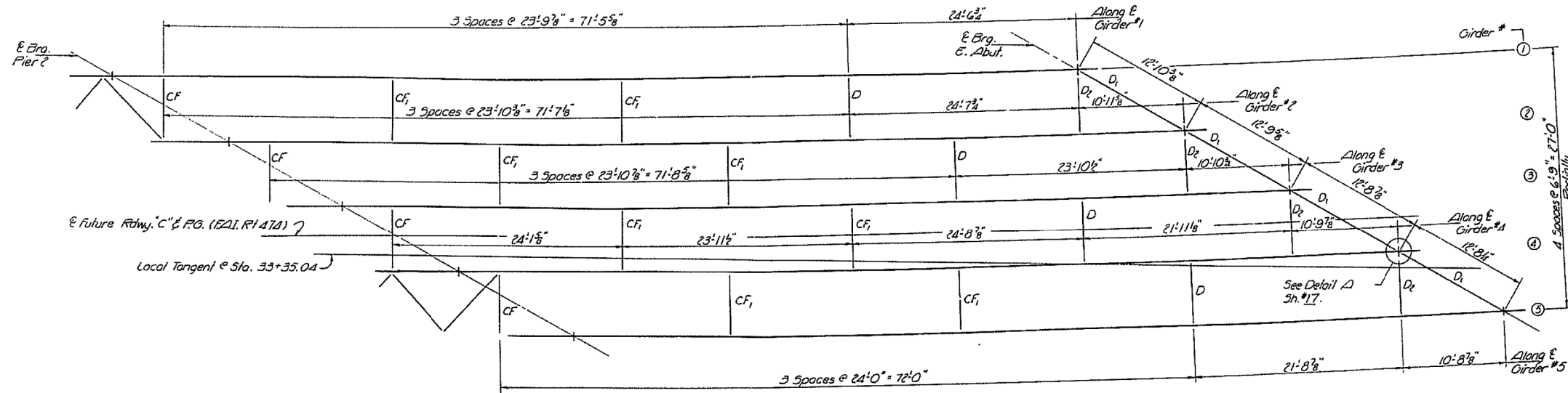
SN 090-0118

I-474 RAMP OVER WB I-474



For Cross Frames, Diaphragms and connections, See Sh.#12. Work this sheet with Sh.#12.

HALF FRAMING PLAN (SPAN 2)



FRAMING PLAN (SPAN 3)

INFORMATION ONLY

MODEL: S:\MODEL\NAMES FILE NAME: S:\FILES

| | | |
|------------------------|------------|-----------|
| USER NAME = SUSERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

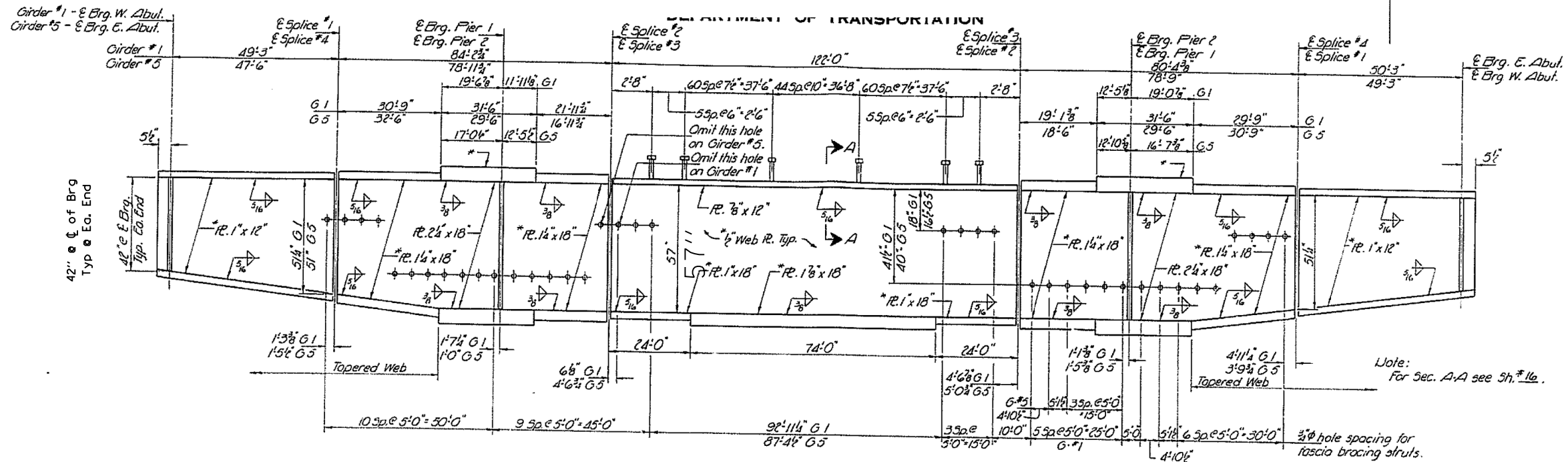
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | |
|--------------|-------|----|--------|--------------|
| FRAMING PLAN | | | | |
| SCALE: | SHEET | OF | SHEETS | STA. TO STA. |

| | | | | |
|--------------------|-------------------------|------------------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 21 |
| CONTRACT NO. 68E37 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |

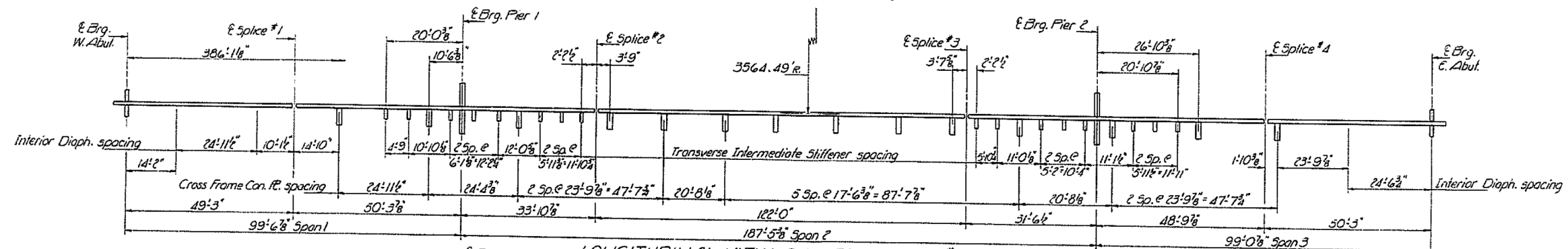
SN 090-0118

I-474 RAMP OVER WB I-474

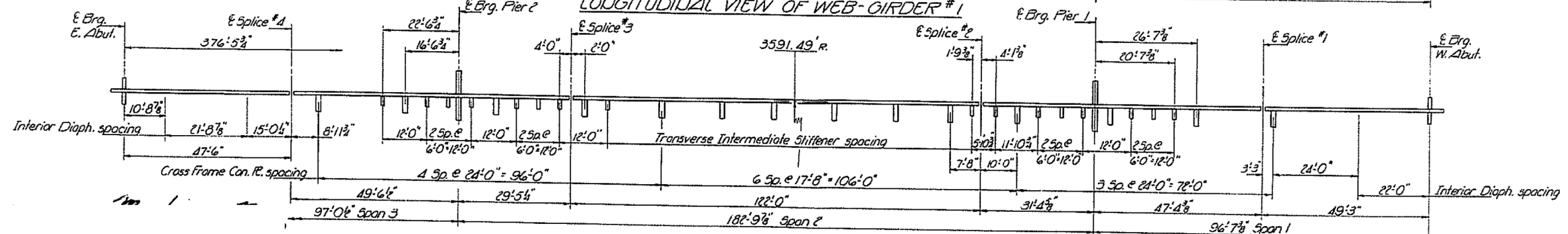


INSIDE ELEVATION - GIRDERS #1 & #5
(Girder #1 Looking North, Girder #5 Looking South)

* Latch Toughness Requirements apply.
See General Notes.



LONGITUDINAL VIEW OF WEB-GIRDER #1



LONGITUDINAL VIEW OF WEB-GIRDER #5

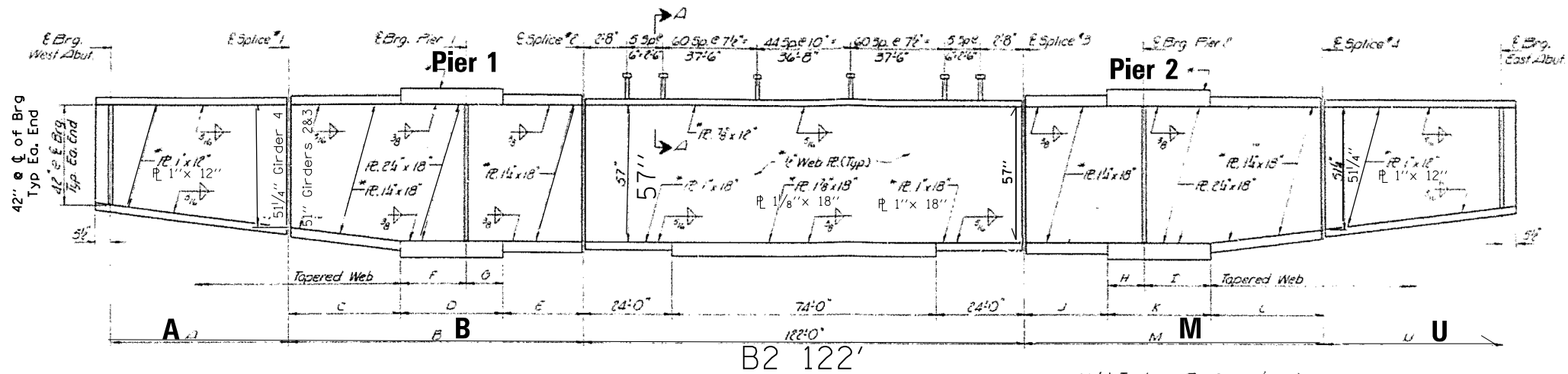
INFORMATION ONLY

MODEL: SMOELNAME
FILE NAME: SFILE

| | | | | | | | | | | |
|----------------------|------------|-----------|--|---|---------------------------------|-------------|-------------------------|----------|--------------|---------------------------|
| USER NAME = SUSERS | DESIGNED - | REVISED - | | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | STRUCTURAL STEEL DETAILS | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| DRAWN - | REVISOR - | REVISOR - | | | | 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 22 |
| PLOT SCALE = \$SCALE | CHECKED - | REVISOR - | | | | | | | | CONTRACT NO. 68E37 |
| PLOT DATE = \$DATE | DATE - | REVISOR - | | | | | | | | ILLINOIS FED. AID PROJECT |

SCALE: SHEET OF SHEETS STA. TO STA.

SN 090-0118 I-474 RAMP OVER WB I-474



Girder Dimensions Girders 2 thru 4

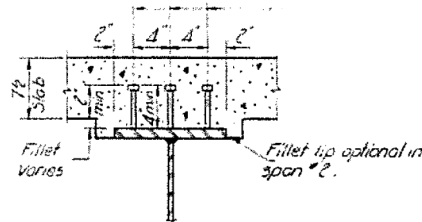
| Girder | A | B | B2 | M | U |
|--------|--------|--------|------|------------|--------|
| 2 | 47'-6" | 83'-6" | 122' | 80'-4 1/8" | 50'-3" |
| 3 | 47'-6" | 83'-6" | 122' | 79'-2" | 49'-3" |
| 4 | 50'-3" | 79'-3" | 122' | 78'-0 1/2" | 49'-3" |

* Weld Toughness Requirements apply.
(See General Notes)

*** TOP OF WEB ELEVATIONS

| Girder # | E. Brg. West Abut. | E. Splice #1 | E. Brg. Pier 1 | E. Splice #2 | E. Splice #3 | E. Brg. Pier 2 | E. Splice #4 | E. Brg. East Abut. |
|----------|--------------------|--------------|----------------|--------------|--------------|----------------|--------------|--------------------|
| 1 | 740.20 | 741.18 | 742.23 | 743.16 | 745.46 | 745.76 | 746.59 | 747.49 |
| 2 | 740.83 | 741.75 | 742.81 | 737.70 | 745.96 | 746.27 | 747.07 | 747.96 |
| 3 | 741.45 | 742.36 | 743.39 | 744.27 | 746.30 | 746.78 | 747.57 | 748.43 |
| 4 | 742.07 | 743.01 | 743.96 | 744.82 | 747.07 | 747.28 | 748.05 | 748.90 |
| 5 | 742.67 | 743.59 | 744.52 | 745.36 | 747.53 | 747.77 | 748.36 | 749.36 |

*** For fabrication only, does not include dead load deflection.



SEC. A-A

0.2 Sp. 1, 0.8 Sp. 3 represent approx. max. stresses in span caused by positive moment.

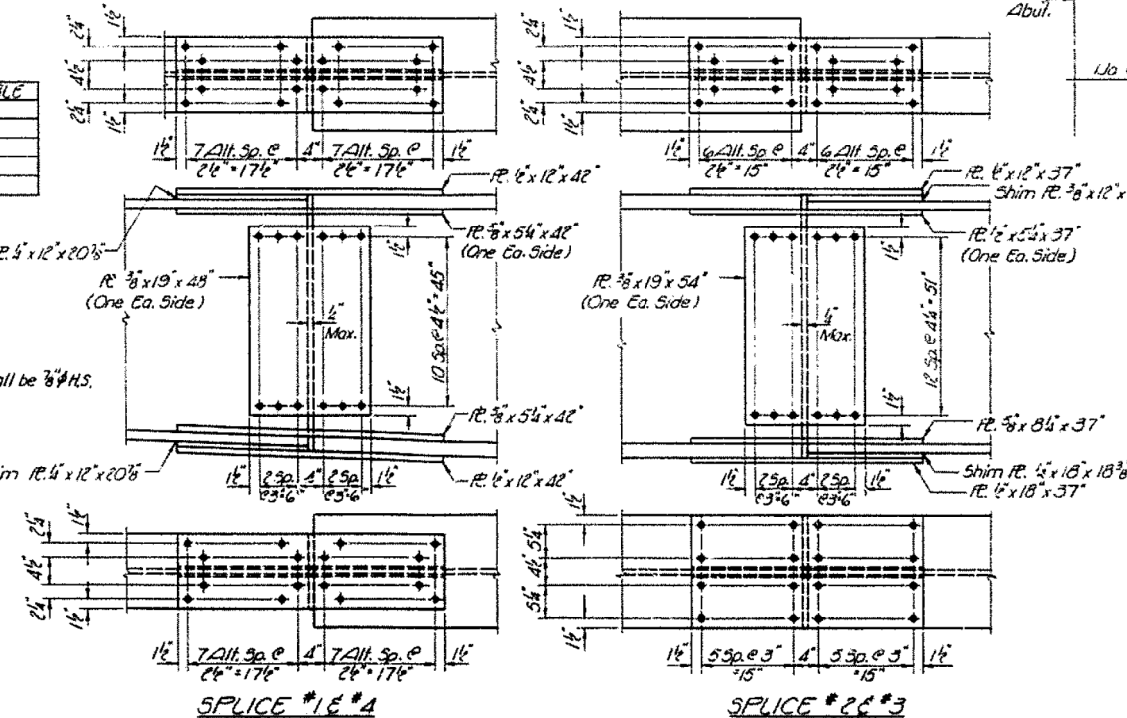
| INTERIOR GIRDER MOMENT TABLE | | | |
|------------------------------|-----------|-----------|-----------|
| | 0.2 Sp. 1 | 0.8 Sp. 3 | 0.5 Sp. 2 |
| I_s (in ⁴) | 17064 | 78839 | 39228 |
| I_c (in ⁴) | | | 104086 |
| S_s (in ³) | 713.5 | 2563.9 | 1009.6 |
| S_c (in ³) | | | 5725.5 |
| ϕ (ft) | 0.84 | 1.09 | 0.94 |
| $M\phi$ (k) | 221 | 2895 | 1651 |
| $I_s n$ composit | 3.71 | 13.50 | 19.62 |
| $S\phi$ (ft) | 0.40 | 0.40 | 0.40 |
| $M_n\phi$ (k) | 129 | 307 | 804 |
| $M\phi$ (k) | 329 | 1263 | 1407 |
| $M Imp.$ (k) | 119 | 243 | 227 |
| Total (k) | 777 | 2413 | 2438 |
| $I_s \& S\phi$ (k) | 13.03 | 11.29 | 7.35 |
| I_s Total (k) | 16.74 | 24.79 | 26.57 |
| VIR (k) | | | 51.2 |

I_s and S_s are the moment of inertia and section modulus of the steel section.
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing I_s .
 VIR is the maximum I_s Impact shear range in the span used to determine shear connector spacing.

| INTERIOR GIRDER REACTION TABLE | | |
|--------------------------------|-------|-------|
| | Abut. | Pier |
| R_P (k) | 29.5 | 224.8 |
| R_E (k) | 38.5 | 83.6 |
| $Imp.$ (k) | 8.6 | 16.1 |
| R Total (k) | 76.6 | 324.5 |

** For M_n use $n = 8.5$; for m_s use 3n.
 $I_c = 70746$ in⁴ and $S_c = 2458$ in³.

Note: All bolts for splices shall be 7/8" H.S.



CAMBER DIAGRAM

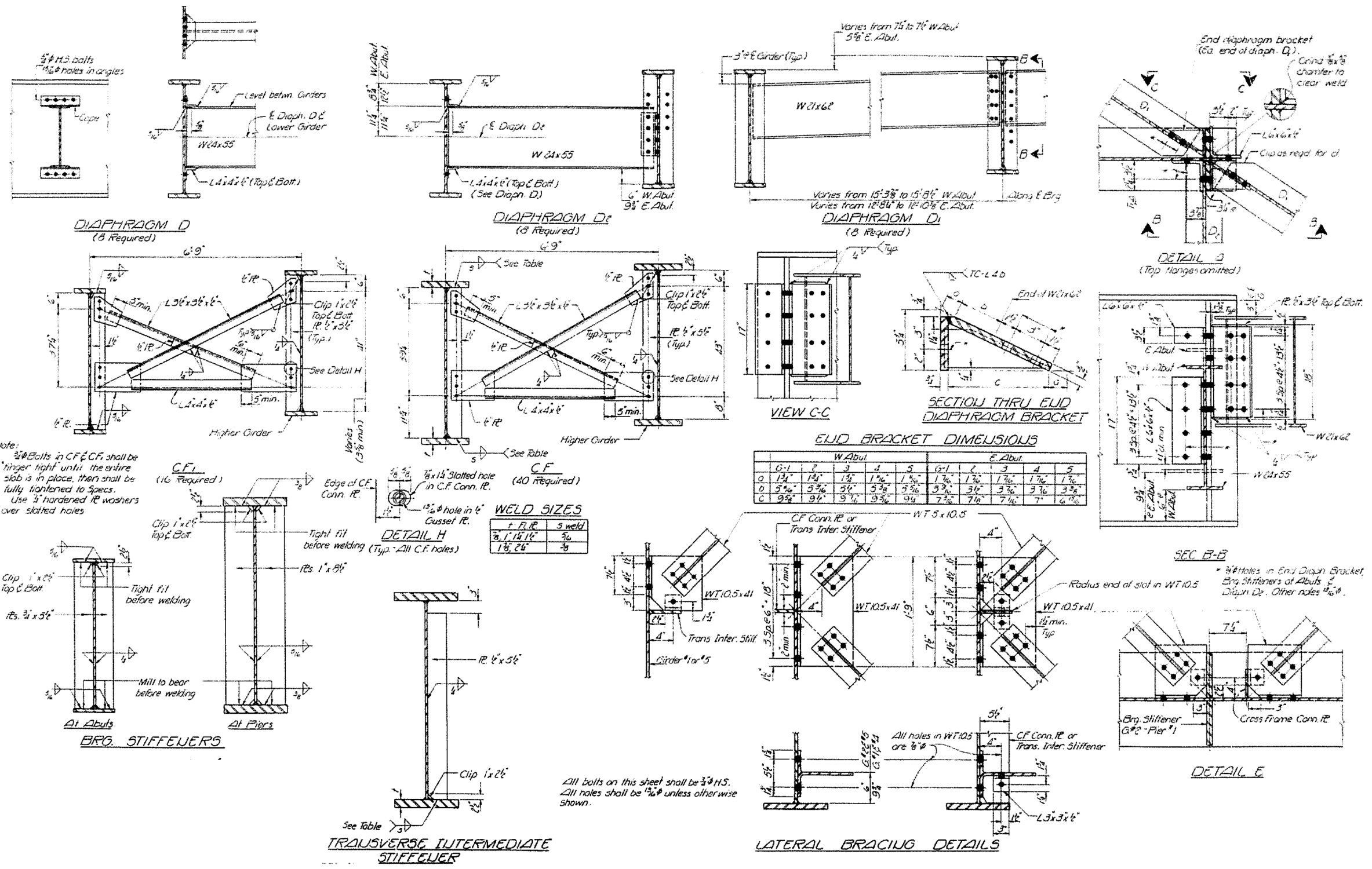
Note:
1" x 12" Flange R's shall be AASHTO M183.
2 1/2" x 18" Flange R's shall be AASHTO M222.
other Flange R's and flange splice R's & splices
#2 #3 shall be AASHTO M223.
All other R's & shapes shall be AASHTO M183 except as noted on 3n #18.

INFORMATION ONLY

MODEL: SPODELNAMES
FILE NAME: STEELS

| | | | | | | | | | | | |
|----------------------|------------|-----------|---|--|--------------------------|--|---------------------------|----------|--------|--------------|-----------|
| USER NAME = SUSERS | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | | STRUCTURAL STEEL DETAILS | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| DRAWN - | REVISED - | 474/74 | | | | | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 23 | |
| PLOT SCALE = \$SCALE | CHECKED - | REVISED - | SCALE: SHEET OF SHEETS STA. TO STA. | | | | CONTRACT NO. 68E37 | | | | |
| PLOT DATE = \$DATES | DATE - | REVISED - | | | | | ILLINOIS FED. AID PROJECT | | | | |

SN 090-0118 I-474 RAMP OVER WB I-474

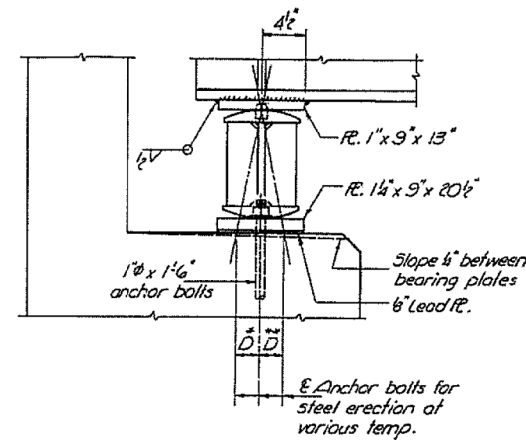


INFORMATION ONLY

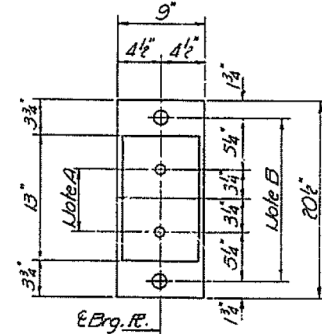
MODEL: SN090-0118
FILE NAME: STILES

| | | | | | | | | | | |
|-----------------------|------------|-----------|--|---|-------------------------------------|---------------------------|---------------------------------|-----------------|-----------------|--------------|
| USER NAME = SUSERS | DESIGNED - | REVISED - | | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | STRUCTURAL STEEL DETAILS | F.A.I. RTE. 474/74 | SECTION D4 BRIDGE PAINTING 2019 | COUNTY TAZEWELL | TOTAL SHEETS 50 | SHEET NO. 24 |
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| PLOT DATE = \$DATES | DATE - | REVISED - | | | | ILLINOIS FED. AID PROJECT | | | | |

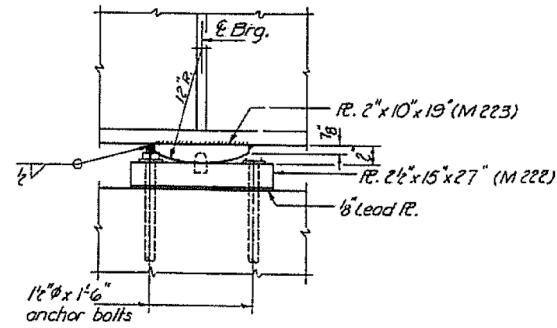
SN 090-0118 I-474 RAMP OVER WB I-474



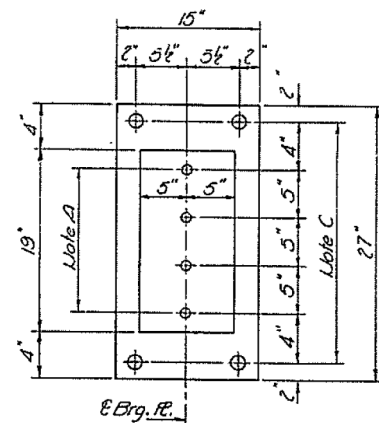
ELEVATION



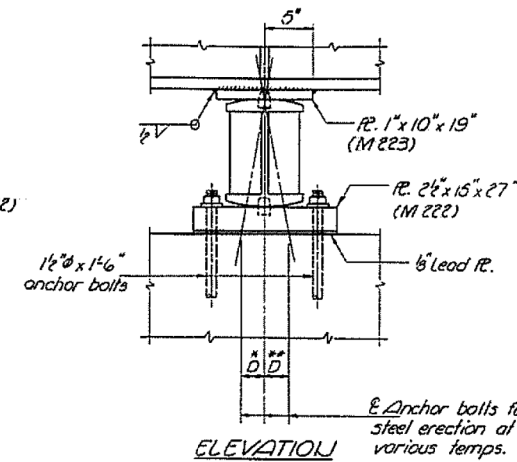
PLAN AT ABUTS.



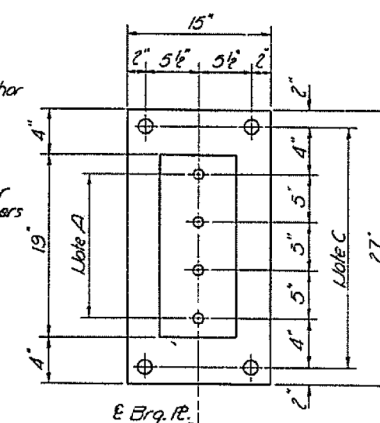
ELEVATION



PLAN AT PIER 2



ELEVATION



PLAN AT PIER 1

NOTES FOR SETTLEMENT OF ANCHOR BOLTS AT EXPANSION BEARINGS

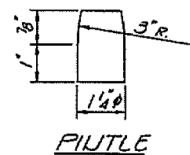
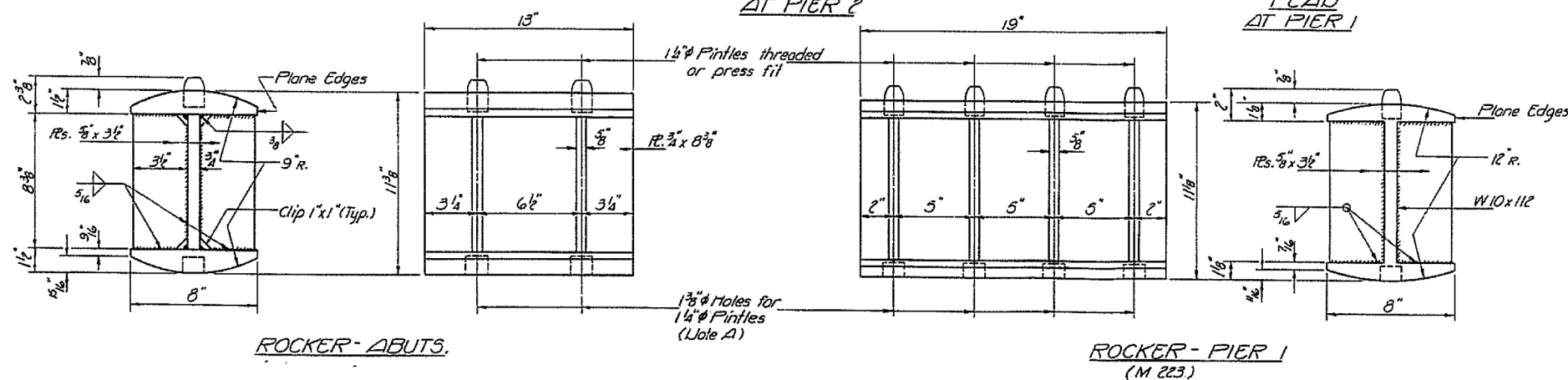
- a) D^* (Side of brg. away from fixed brg.)
 $D^* = \frac{1}{8}$ " per each 100' of expansion for every 15" fall below the normal temp. of 50°F.
- D^{**} (Side of brg. toward fixed brg.)
 $D^{**} = \frac{1}{8}$ " per each 100' of expansion for every 15" rise above the normal temp. of 50°F.
- b) After beams have been erected and dimensions D^* & D^{**} determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

Note:
Brg. assemblies & Piers shall be AASHTO M 222 or M 223 as noted. All other Brg. assy. shall be AASHTO M 183.

Note A:
1/8" Holes - 1" deep in top R. for 1.4" pintles. Thread or press fit pintles in bottom R.

Note B:
1/8" Holes for 1" anchor bolts - 2.4" x 2.4" x 5/16" R. washers under nut.

Note C:
1/8" Holes for 1.4" anchor bolts - 3" x 3" x 5/16" R. washers under nut.



PINTLE

INFORMATION ONLY

MODEL: SMODELNAMES
FILE NAME: SFILES

| | | |
|-----------------------|------------|-----------|
| USER NAME = SUSERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALES | CHECKED - | REVISED - |
| PLOT DATE = \$DATES | DATE - | REVISED - |

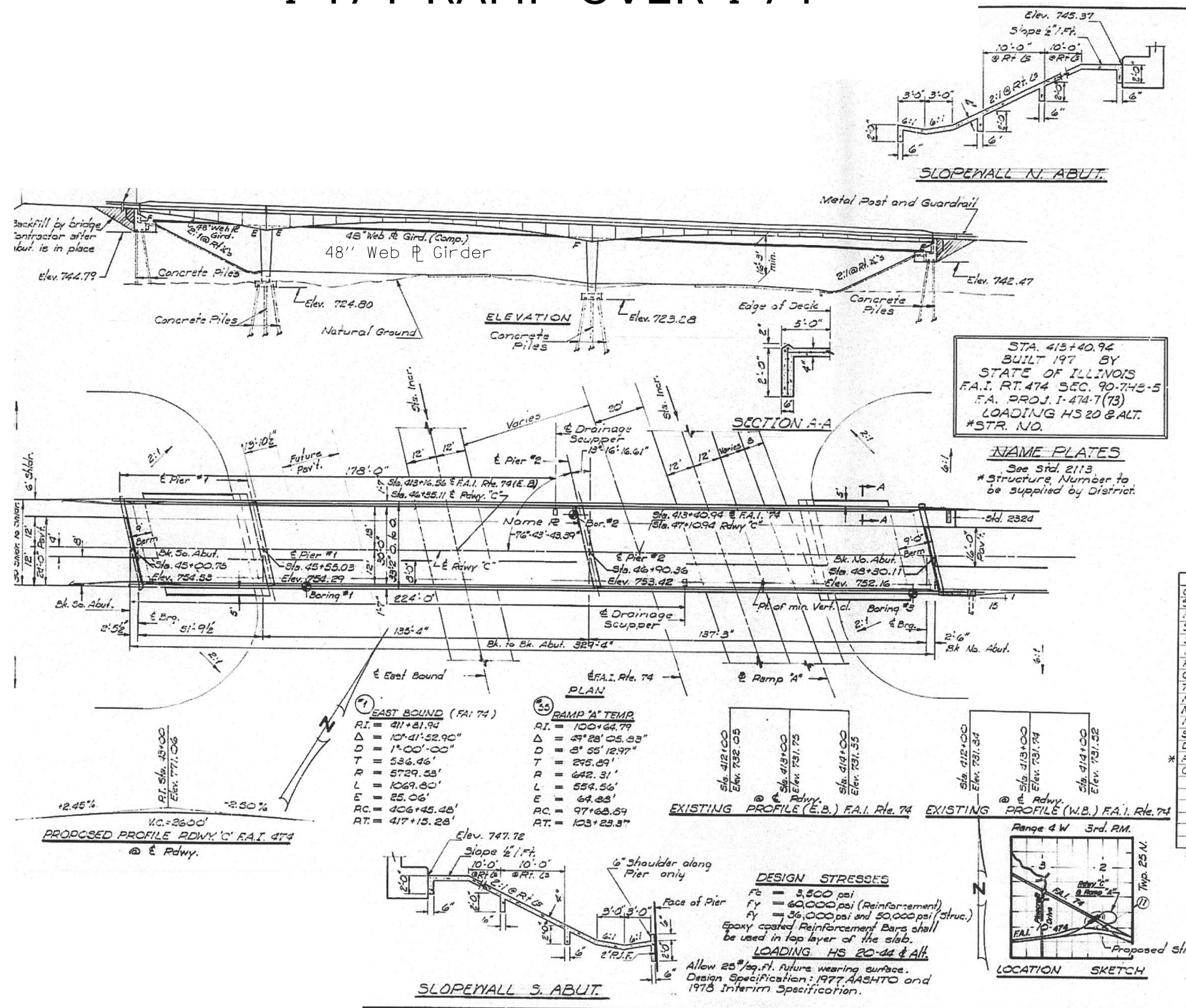
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|-------------|-------------------------|---------------------------|--------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 25 |
| | | | CONTRACT NO. 68E37 | |
| | | ILLINOIS FED. AID PROJECT | | |

SN 090-0119 I-474 RAMP OVER I-74

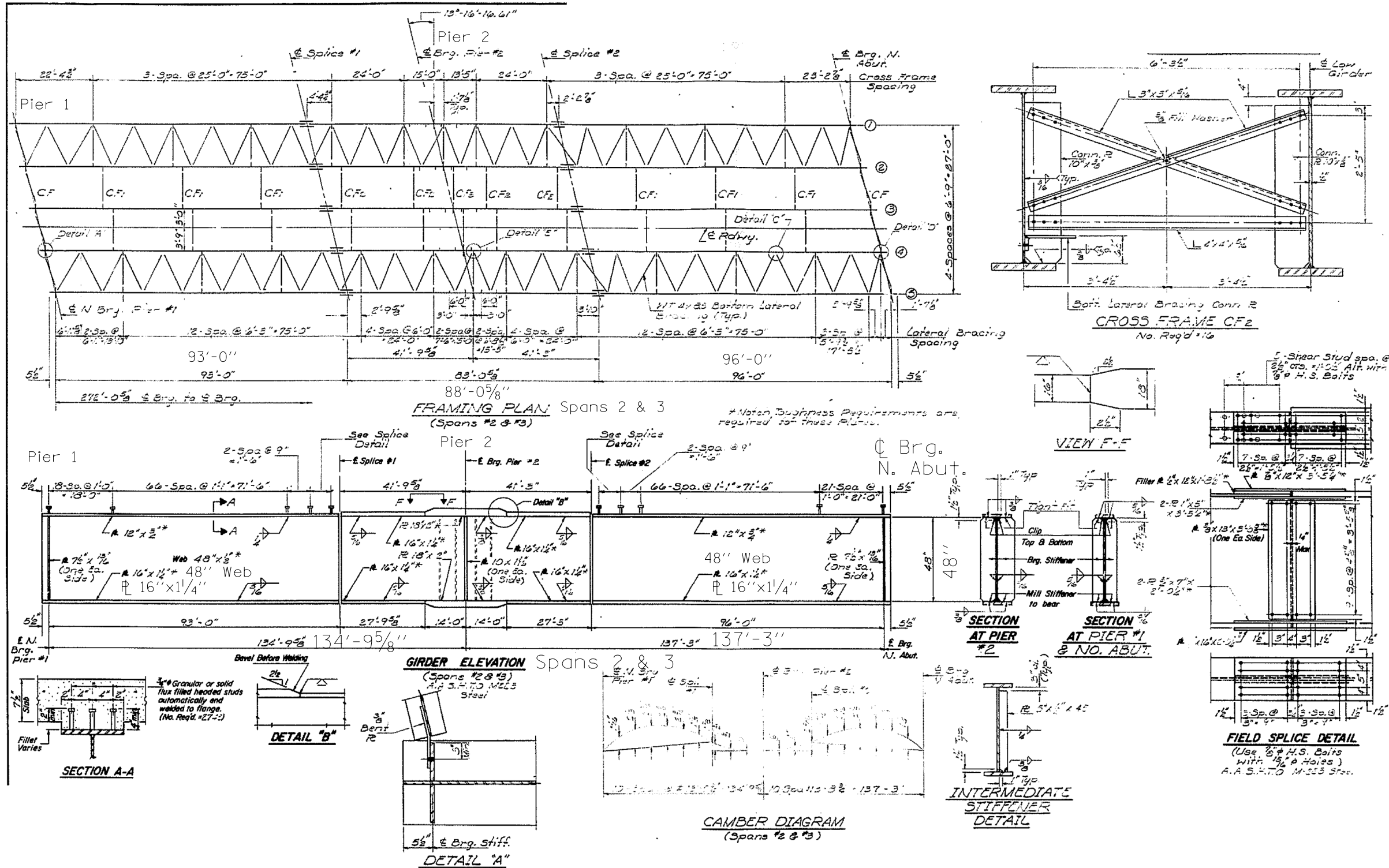


INFORMATION ONLY

MODEL: SMODELNAMES
FILE NAME: SFILES

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|-----------------------|------------|-----------|--------|---|-------------------------|---------------------------|----------|--------|--------------|-----------|--|
| USER NAME = SUSERS | DESIGNED - | REVISED - | | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PLAN AND ELEVATION VIEW | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| DRAWN - | REVISED - | | 474/74 | | | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 26 | | |
| PLOT SCALE = \$SCALES | CHECKED - | REVISED - | | | | CONTRACT NO. 68E37 | | | | | |
| PLOT DATE = \$DATES | DATE - | REVISED - | | | | ILLINOIS FED. AID PROJECT | | | | | |

SN 090-0119 I-474 RAMP OVER I-74

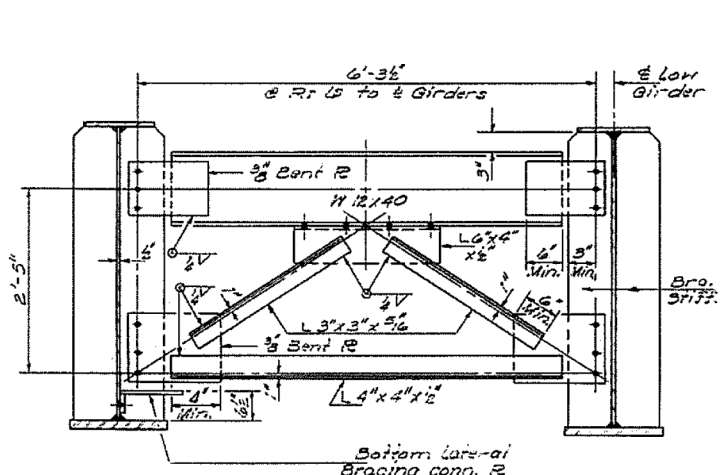


INFORMATION ONLY

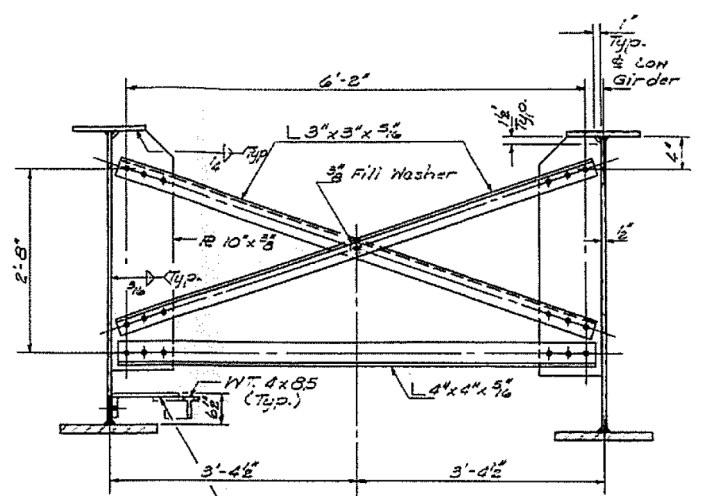
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|----------------------|------------|-----------|--|---|---|---------------------------|-------------------------|----------|--------------|--------------------|
| USER NAME = \$USERS | DESIGNED - | REVISED - | | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | FRAMING AND STRUCTURAL STEEL DETAILS | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| PLOT SCALE = \$SCALE | CHECKED - | REVISED - | | | | 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 27 |
| PLOT DATE = \$DATES | DATE - | REVISED - | | | | | | | | CONTRACT NO. 68E37 |
| | | | | | | SCALE: | SHEET | OF | SHEETS | STA. TO STA. |
| | | | | | | ILLINOIS FED. AID PROJECT | | | | |

SN 090-0119

I-474 RAMP OVER I-74

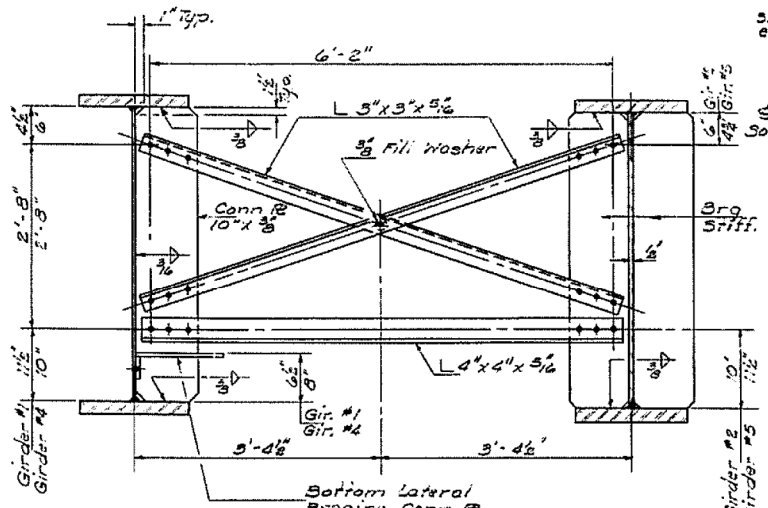
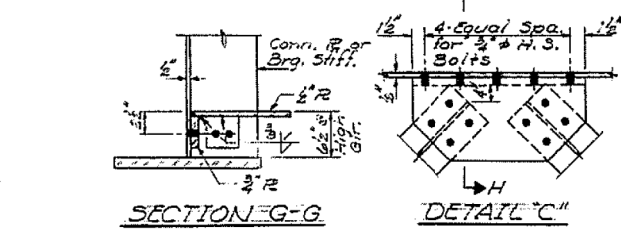
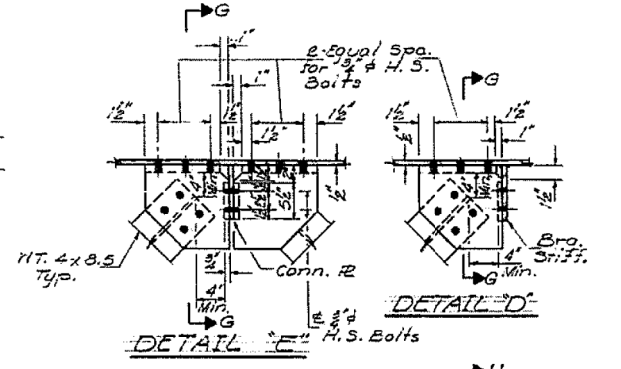


CROSS FRAME CF1
No. Req'd = 16

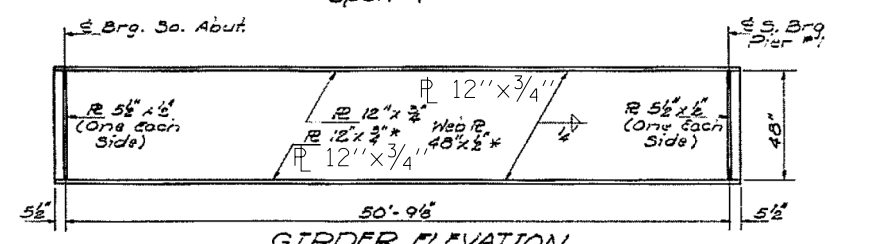
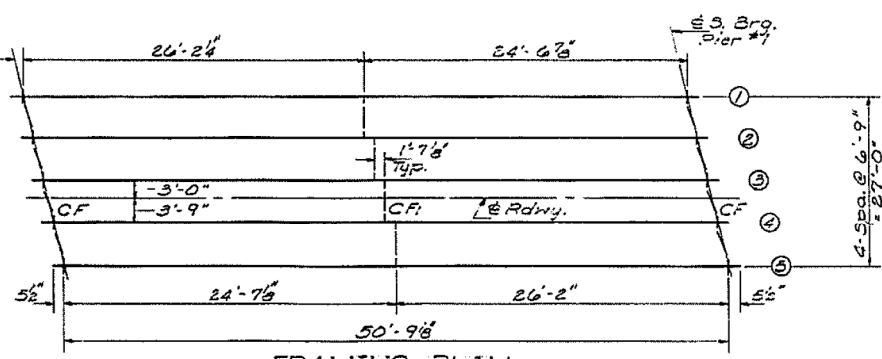


CROSS FRAME CF2
No. Req'd = 28

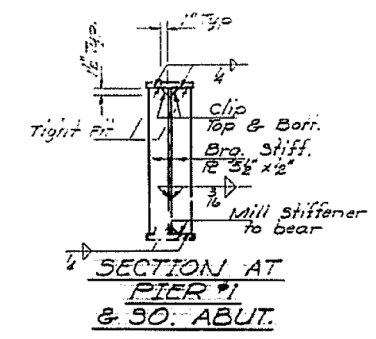
Notes:
Use 3/4" H.S. Bolts with 1/8" holes in angles and gusset plates.
Hardened washers shall be required over holes in angles and gusset plates.
All Structural Steel shall be AASHTO M-193 except as noted.



CROSS FRAME CF3
No. Req'd = 4



*Notch Toughness Requirements are required for these plates.



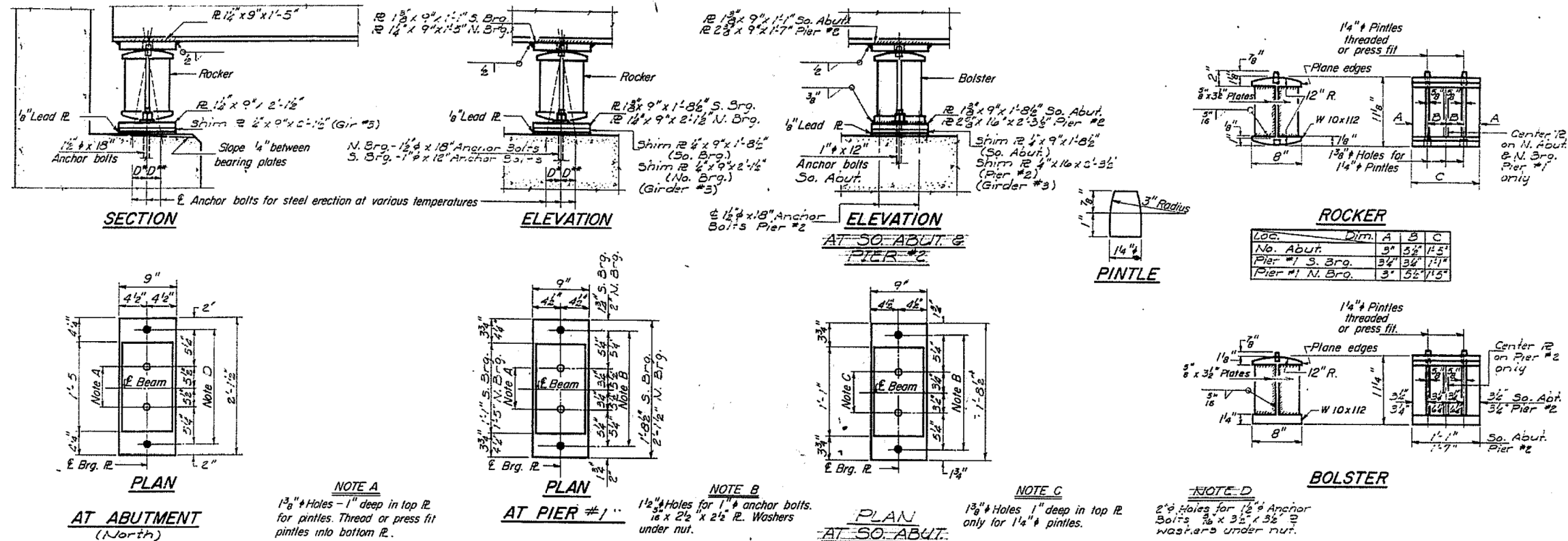
INFORMATION ONLY

MODEL: SMOELNAMES
FILE NAME: STEELS

| | | | | | | | | | | |
|-----------------------|------------|-----------|--|---|---------------------------------|---------------------------|-------------------------|----------|--------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - | | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | STRUCTURAL STEEL DETAILS | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| DRAWN - | REVISI | REVISI | | | | 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 28 |
| PLOT SCALE = \$SCALES | CHECKED - | REVISI | | | | CONTRACT NO. 68E37 | | | | |
| PLOT DATE = \$DATES | DATE - | REVISI | | SCALE: SHEET OF SHEETS STA. TO STA. | | ILLINOIS FED. AID PROJECT | | | | |

SN 090-0119

I-474 RAMP OVER I-74



NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

- a) D* (Side of brg. away from fixed brg.)
 D* = 1/8" per each 100' of expansion for every 15° fall below the normal temp. of 50°F.
 D** (Side of brg. toward fixed brg.)
 D** = 1/8" per each 100' of expansion for every 15° rise above the normal temp. of 50°F.
- b) After beams have been erected and dimensions D* or D** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.

BEARING ASSEMBLY DETAILS

MOMENT TABLE SPANS #2 & #3

| INTERIOR GIRDER MOMENT TABLE | | | |
|-----------------------------------|------------|---------|------------|
| | 0.4 Sp. #2 | Pier #2 | 0.6 Sp. #3 |
| I _s (in ⁴) | 20,679 | 49,632 | 20,679 |
| S _c (in ³) | 55,910 | | 55,910 |
| S _s (in ³) | 1029.0 | 1908.9 | 1029.0 |
| S _o (in ³) | 1415.3 | | 1415.3 |
| I _c (K) | .856 | 1.035 | .856 |
| I _s (K) | 938 | 2478 | 1007 |
| I _{sc} (K) | 10.9 | 15.6 | 11.7 |
| I _{so} (K) | 46.8 | 46.8 | 46.8 |
| I _{sc} (K) | 621 | 999 | 658 |
| I _{so} (K) | 1100 | | 1119 |
| I _{mp} (K) | 209 | 210 | 213 |
| I _{total} (K) | 1930 | 2315 | 1990 |
| I _s - comp (K) | 16.4 | 14.6 | 16.9 |
| I _s total (K) | 27.3 | 30.2 | 28.6 |
| VR (K) | 53.8 | | 53.5 |

REACTION TABLE

| INTERIOR GIRDER REACTION TABLE | | | | | |
|--------------------------------|-----------|----------------|----------------|--------|-----------|
| | So. Abut. | S. Brg. Pier 1 | N. Brg. Pier 1 | Pier 2 | No. Abut. |
| R _o (K) | 32.7 | 32.7 | 65.4 | 235.1 | 67.4 |
| R _s (K) | 55.9 | 55.9 | 40.5 | 81.8 | 40.6 |
| I _m (K) | 10.0 | 10.0 | 7.7 | 15.5 | 7.7 |
| R _{total} (K) | 78.6 | 78.6 | 113.6 | 332.4 | 115.7 |

MOMENT TABLE SPAN #1

| INTERIOR GIRDER | |
|-----------------------------------|------------|
| | 0.5 Sp. #1 |
| I _s (in ⁴) | 15,305 |
| S _c (in ³) | 1,282 |
| M _o (K) | 417 |
| M _s (K) | 394 |
| I _{mp} (K) | 110 |
| I _{total} (K) | 921 |
| I _s (K) | 17.9 |

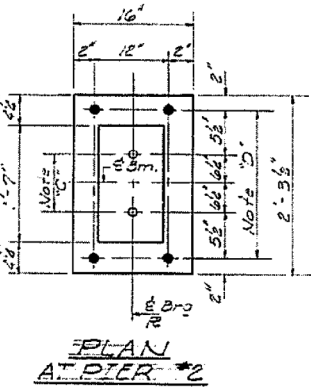
I_s and S_c are the moment of inertia and section modulus of the steel section used in computing I_s total.
 I_o and S_o are the moment of inertia and section modulus of the composite section used in computing I_s total.
 VR is the maximum \pm impact shear range in span used to determine shear connector spacing.

Values given in tables are based upon service loads, total design stresses for factored loads are as follows:
 At .5 Sp. #1 $f = 1.3(8.1 + 3 \times 9.8) = 31.8$ ksi.
 At .4 Sp. #2 $f = 1.3(10.9 + 3.3 + 3 \times 11.1) = 45.1$ ksi.
 At Pier #2 $f = 1.3(15.6 + 6.3 + 3 \times 8.3) = 46.5$ ksi.
 At .6 Sp. #3 $f = 1.3(11.7 + 5.6 + 3 \times 11.3) = 47.0$ ksi.

TOP OF WEB ELEVATIONS ***

| | S. Abut. | S. Brg. Pier 1 | N. Brg. Pier 1 | E. Sp. #1 | Pier 2 | E. Sp. #2 | N. Abut. |
|--------|----------|----------------|----------------|-----------|--------|-----------|----------|
| Gir #1 | 753.54 | 753.31 | 753.30 | 752.79 | 752.31 | 752.18 | 751.22 |
| Gir #2 | 753.66 | 753.43 | 753.42 | 752.90 | 752.43 | 752.30 | 751.35 |
| Gir #3 | 753.76 | 753.52 | 753.52 | 753.00 | 752.52 | 752.39 | 751.42 |
| Gir #4 | 753.74 | 753.50 | 753.50 | 752.98 | 752.50 | 752.36 | 751.39 |
| Gir #5 | 753.63 | 753.39 | 753.38 | 752.86 | 752.38 | 752.24 | 751.27 |

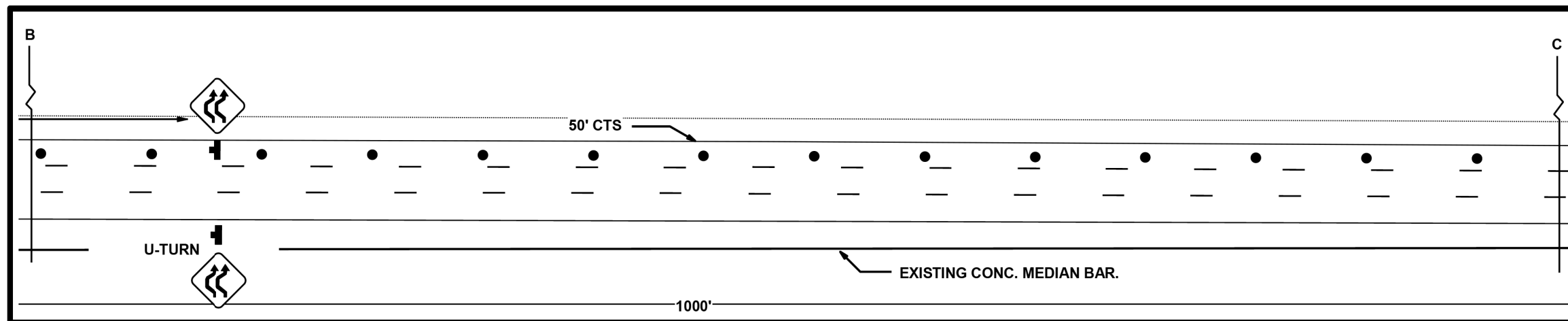
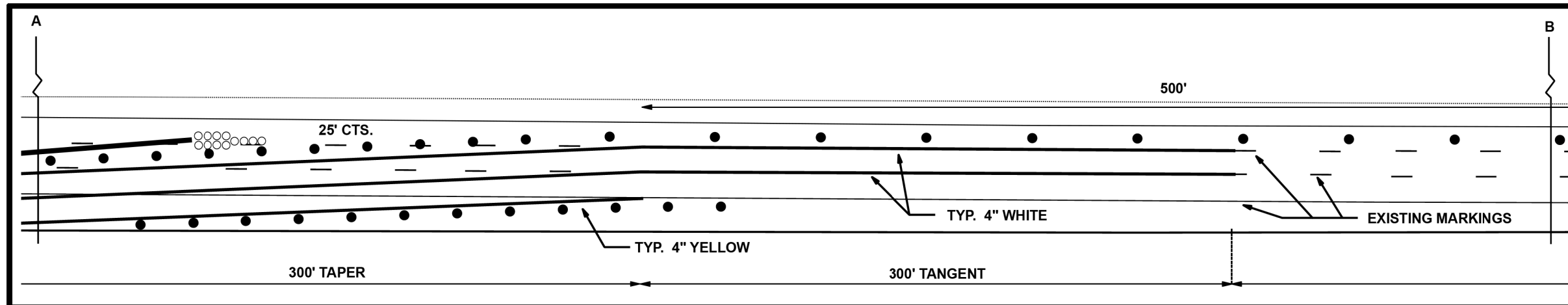
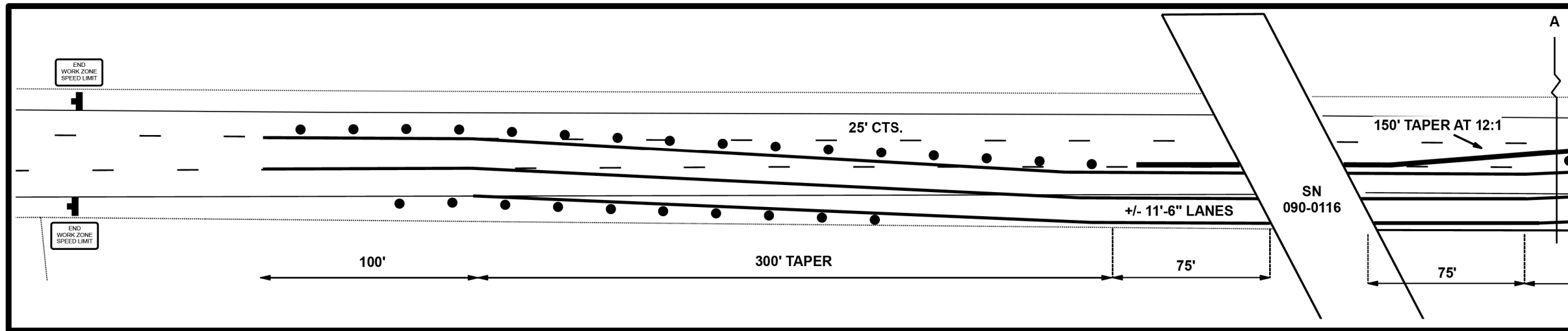
*** For fabrication only. Elevations at splices have been adjusted for camber.



INFORMATION ONLY

MODEL: SPODELNAMES FILE NAME: STILES

090-0116/0117-WESTBOUND STAGE 1



MODEL: S:\MODEL\NAMES
FILE NAME: S:\FILES

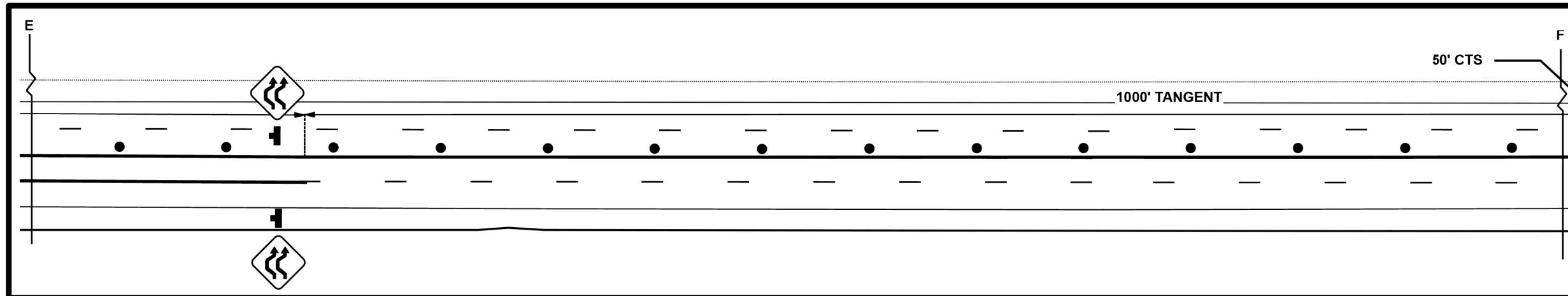
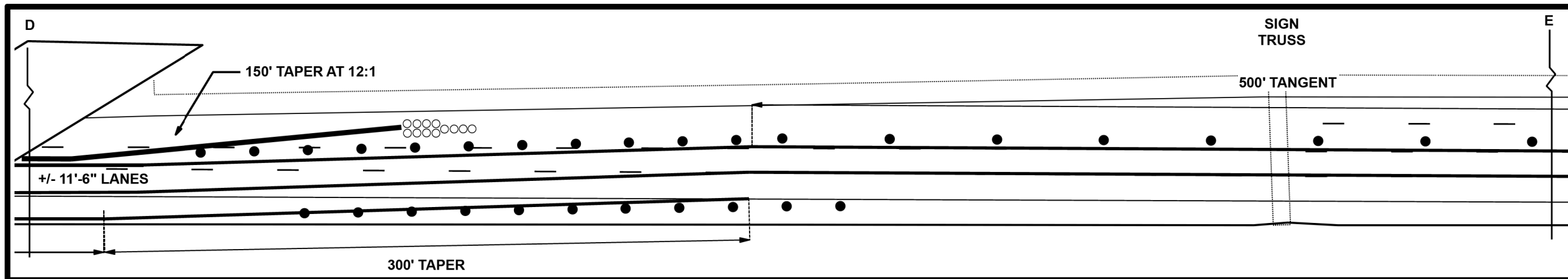
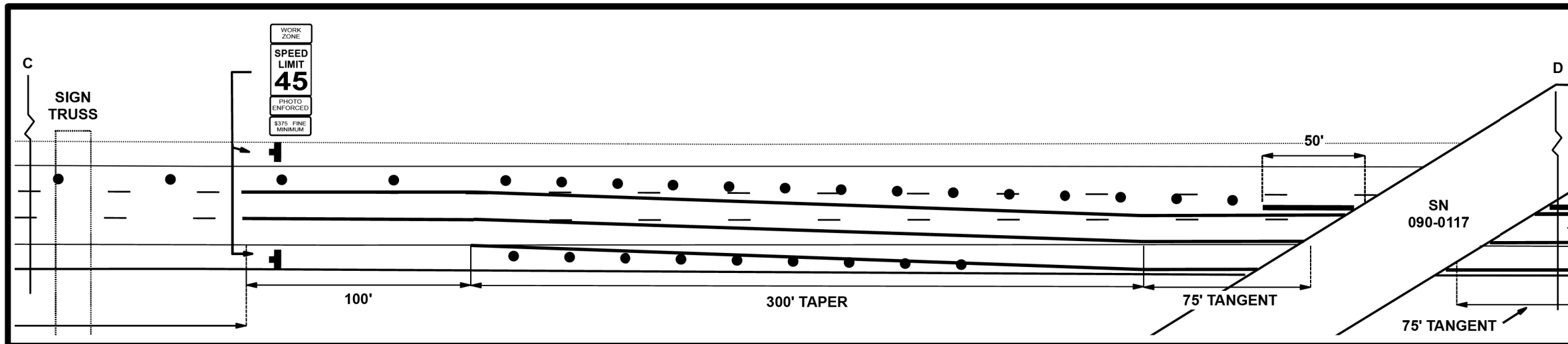
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|------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 1 & 2 TRAFFIC CONTROL WB STAGE 1
SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|--------------------|-------------------------|----------|---------------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 30 |
| CONTRACT NO. 68E37 | | | ILLINOIS FED. AID PROJECT | |

090-0116/0117-WESTBOUND STAGE 1



MODEL: S:\MODEL\NAMES
FILE NAME: S:\FILES

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

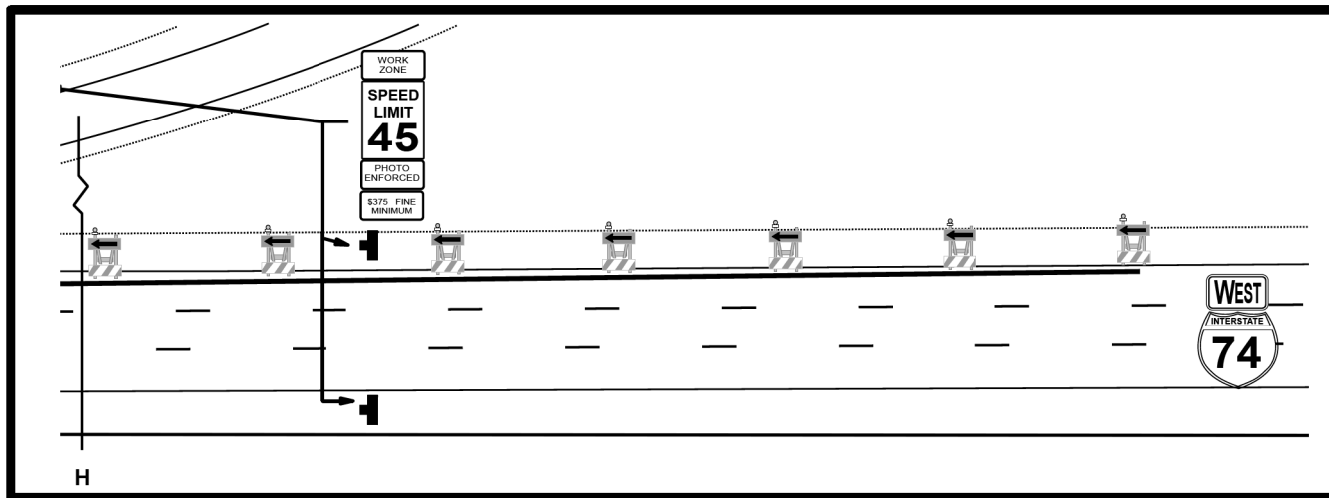
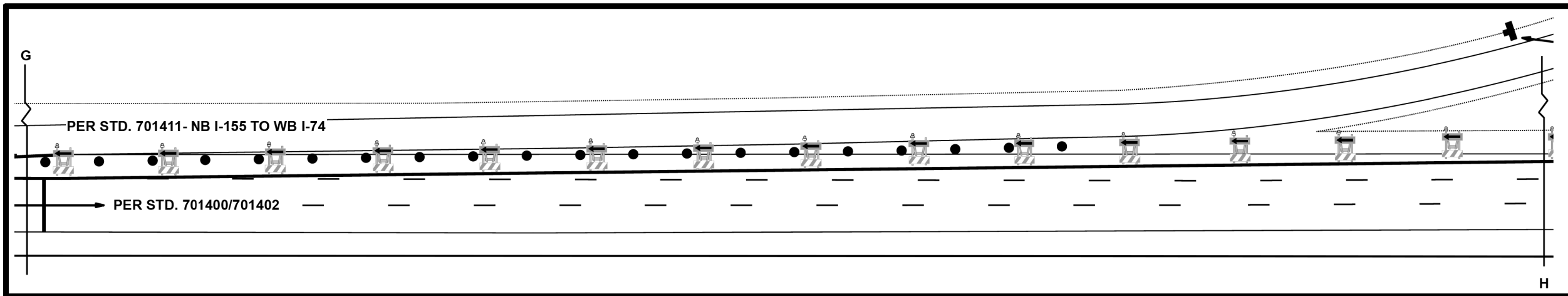
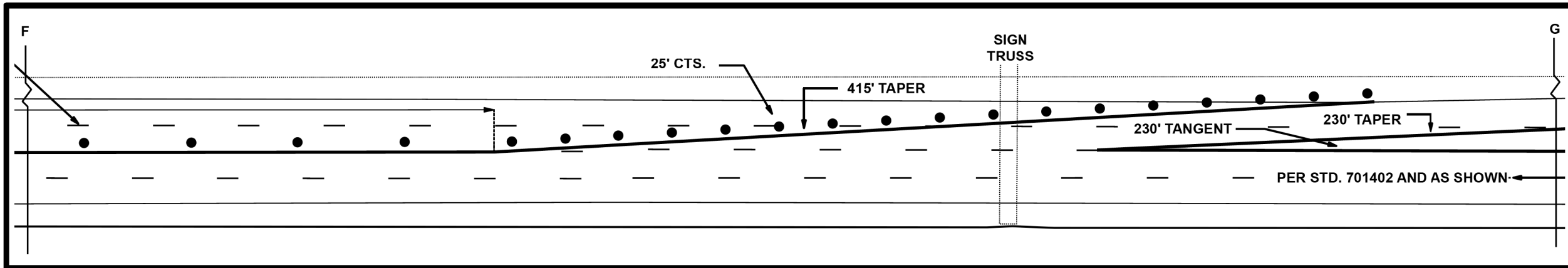
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 1 & 2 TRAFFIC CONTROL WB STAGE 1

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|-----------------------|------------------------------------|--------------------|---------------------------|-----------------|
| F.A.I. RTE. 474/74 | SECTION D4 BRIDGE PAINTING 2019 | COUNTY TAZEWELL | TOTAL SHEETS 50 | SHEET NO. 31 |
| CONTRACT NO. 68E37 | | | ILLINOIS FED. AID PROJECT | |

090-0116/0117-WESTBOUND STAGE 1



MODEL: S:\MODEL\NAMES
FILE NAME: S:\FILES

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

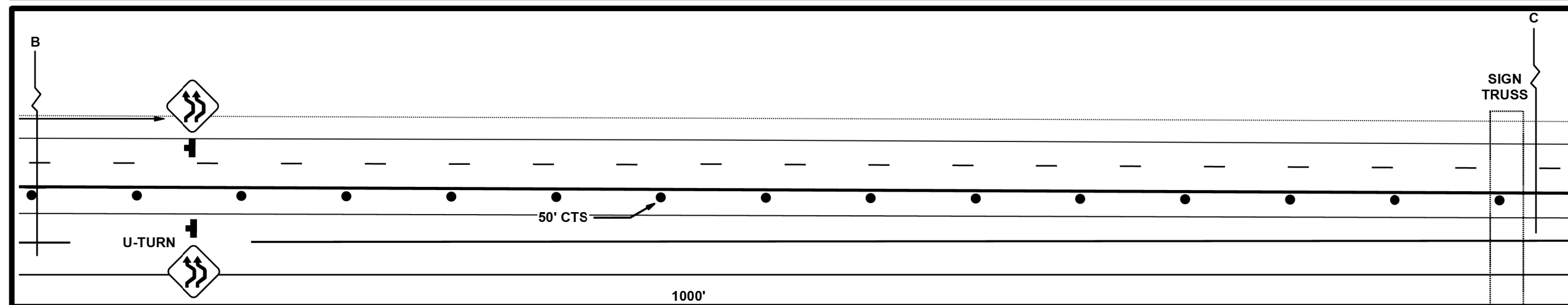
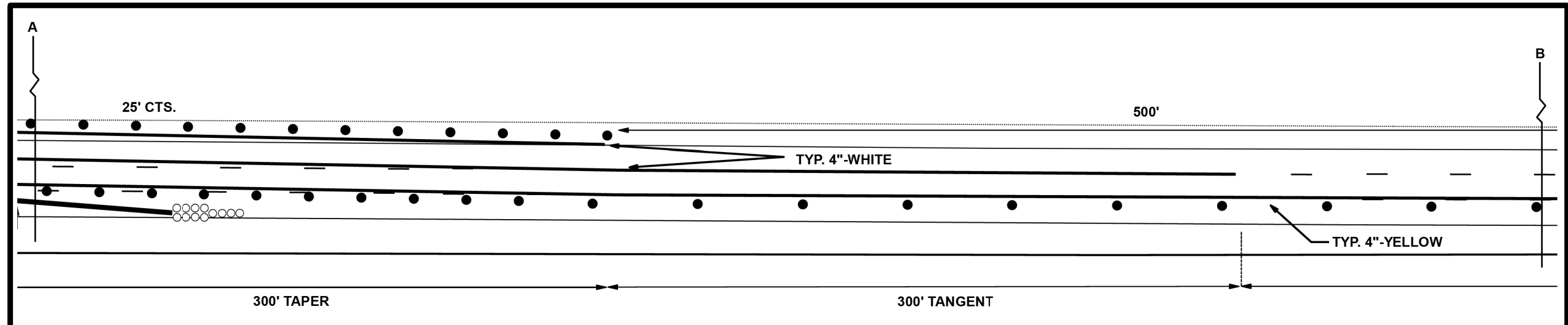
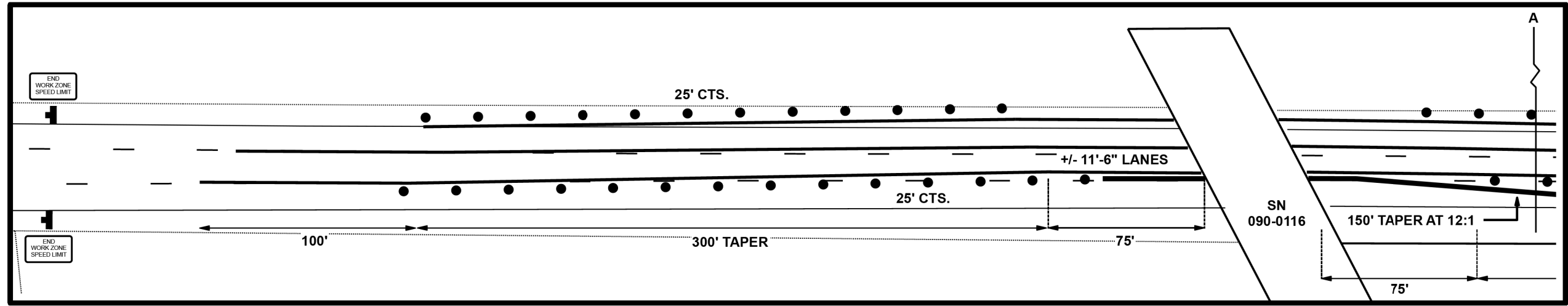
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 1 & 2 TRAFFIC CONTROL WB STAGE 1

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-------------------------|----------|---------------------------|-----------|
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 32 |
| CONTRACT NO. 68E37 | | | ILLINOIS FED. AID PROJECT | |

090-0116/0117-WESTBOUND STAGE 2



MODEL: S:\MODEL\NAMES
FILE NAME: S:\FILES

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

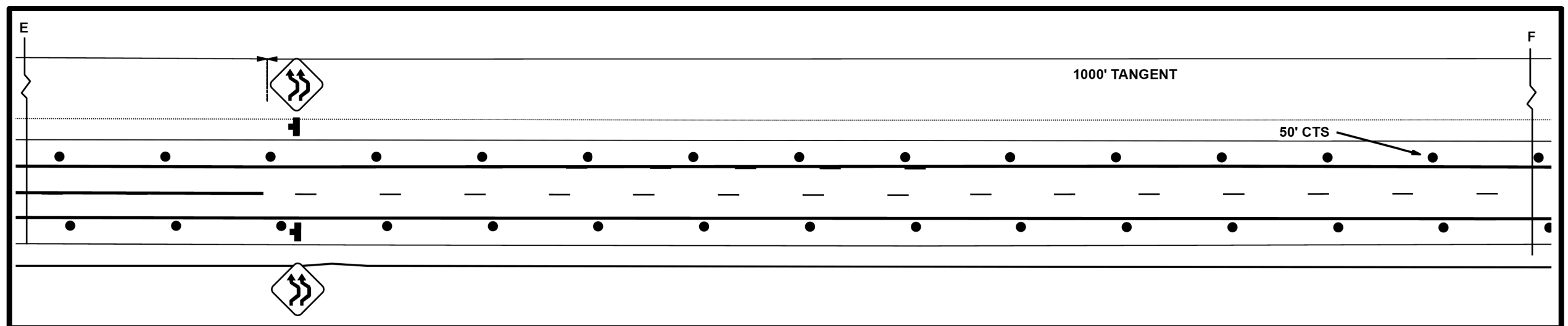
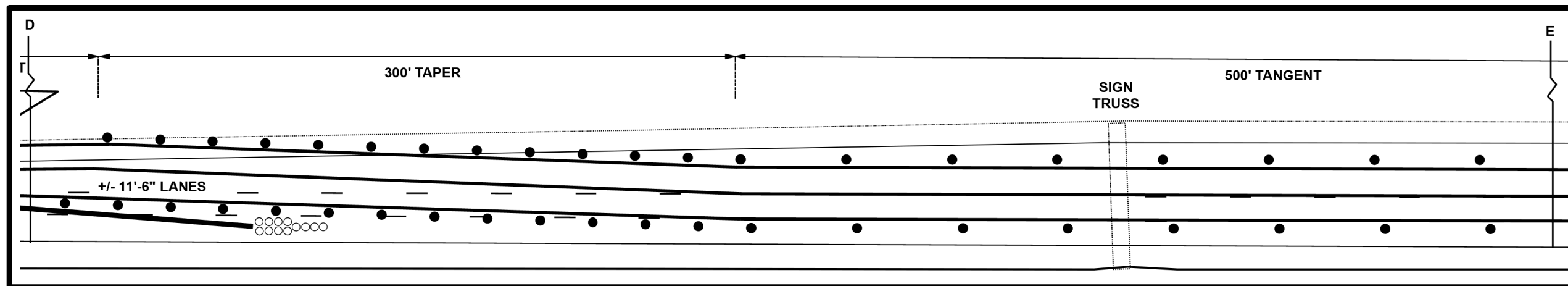
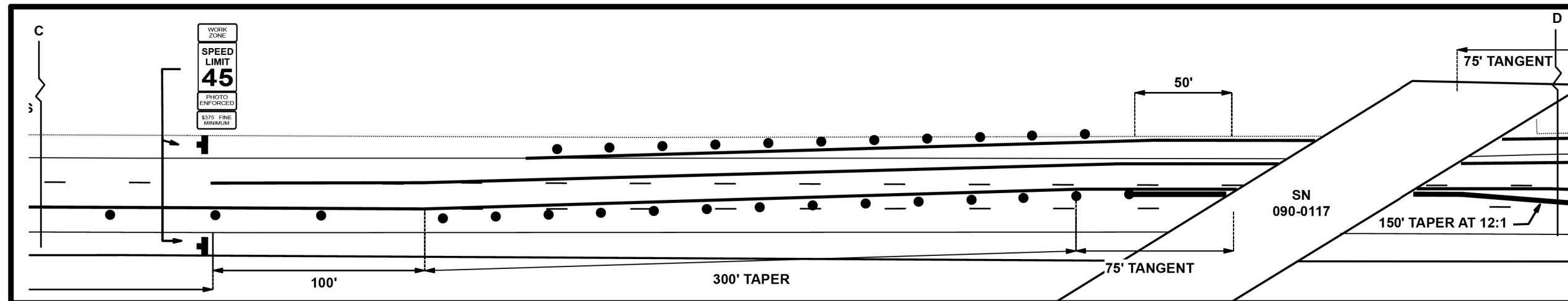
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL LOCATION 1 & 2 WB STAGE 2

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|--------------------|-------------------------|----------|---------------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 33 |
| CONTRACT NO. 68E37 | | | ILLINOIS FED. AID PROJECT | |

090-0116/0117-WESTBOUND STAGE 2



MODEL: \$MODELNAME\$
FILE NAME: \$FILES\$

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS\$ | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

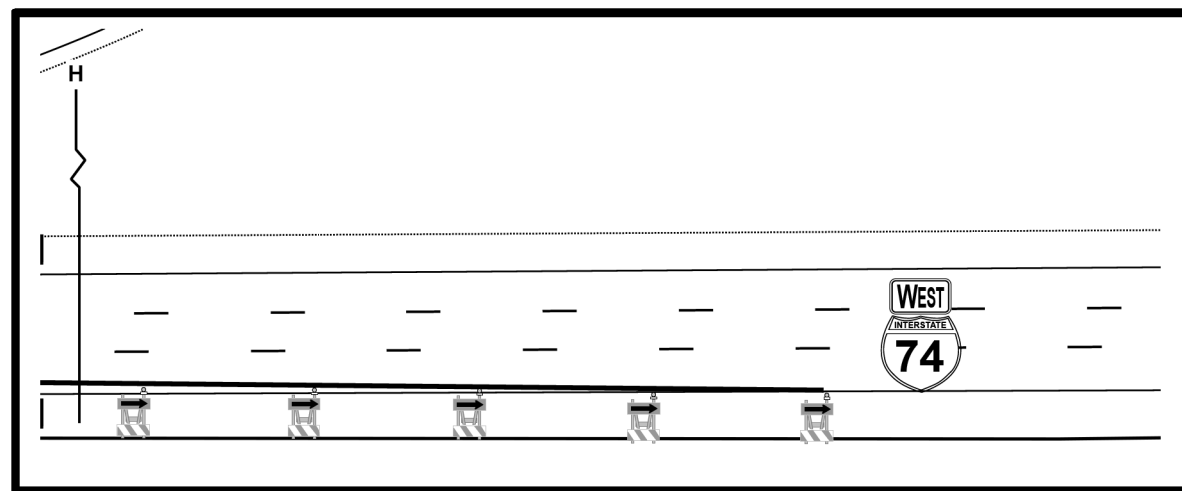
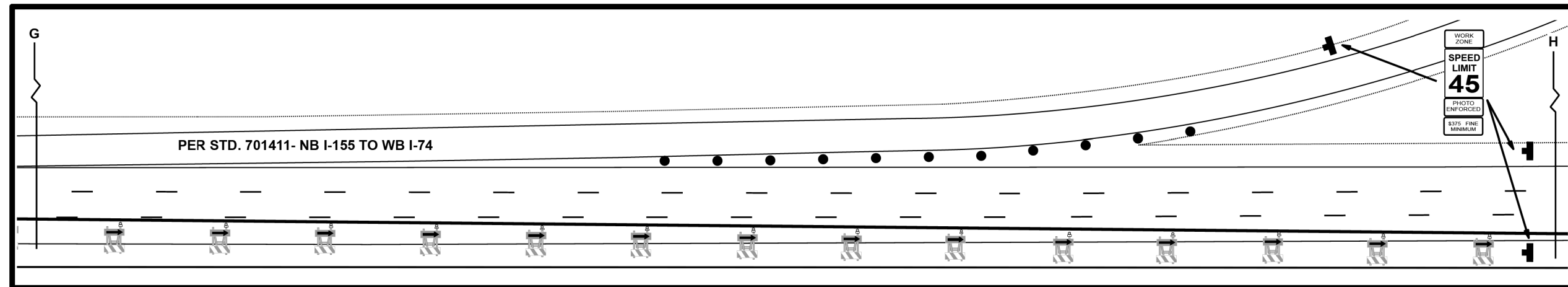
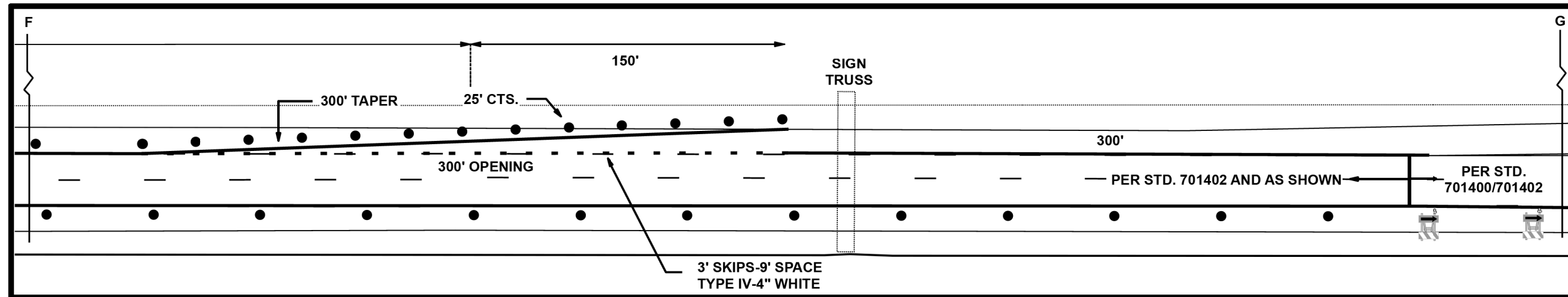
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 1 & 2 TRAFFIC CONTROL WB STAGE 2

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|------------------------------------|--------------------|--------------------|-----------------|
| F.A.I. RTE. 474/74 | SECTION D4 BRIDGE PAINTING 2019 | COUNTY TAZEWELL | TOTAL SHEETS 50 | SHEET NO. 34 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 68E37 | |

090-0116/0117-WESTBOUND STAGE 2



MODEL: \$MODELNAME\$
FILE NAME: \$FILE\$

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

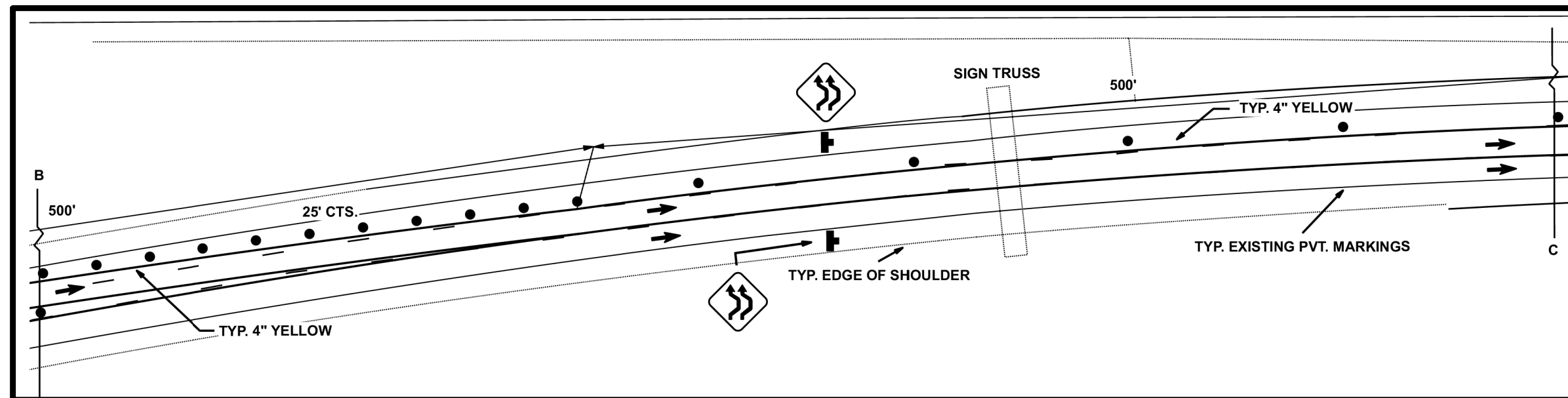
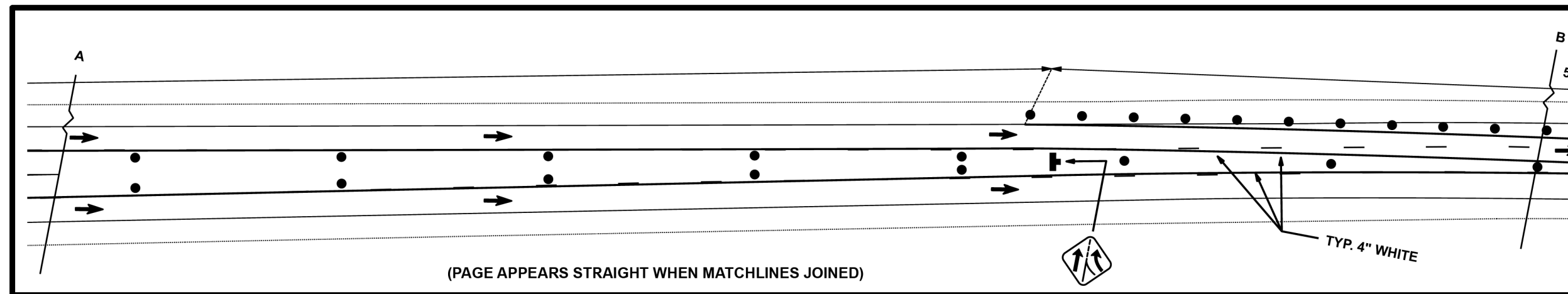
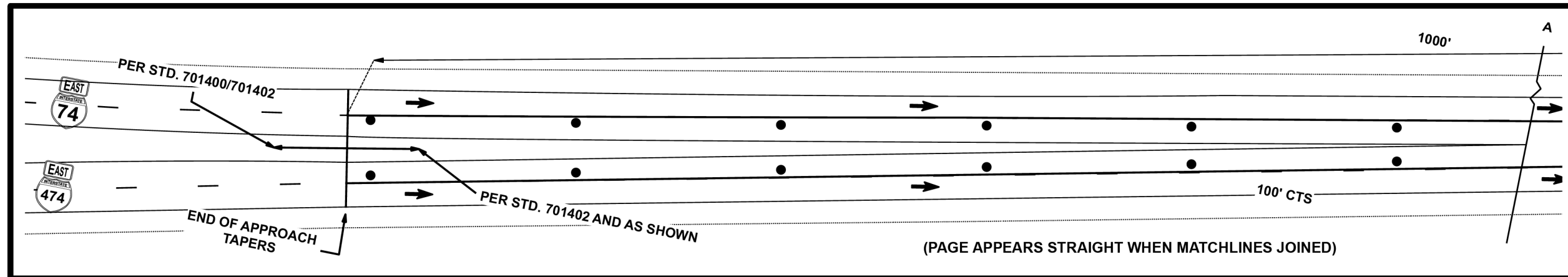
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 1 & 2 TRAFFIC CONTROL WB STAGE 2

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|-----------------------|------------------------------------|--------------------|--------------------|-----------------|
| F.A.I. RTE. 474/74 | SECTION D4 BRIDGE PAINTING 2019 | COUNTY TAZEWELL | TOTAL SHEETS 50 | SHEET NO. 35 |
| ILLINOIS | | | FED. AID PROJECT | |
| CONTRACT NO. 68E37 | | | | |

090-0116/0117-EASTBOUND STAGE 1



MODEL: S:\MODEL\NAMES
FILE NAME: S:\FILES

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

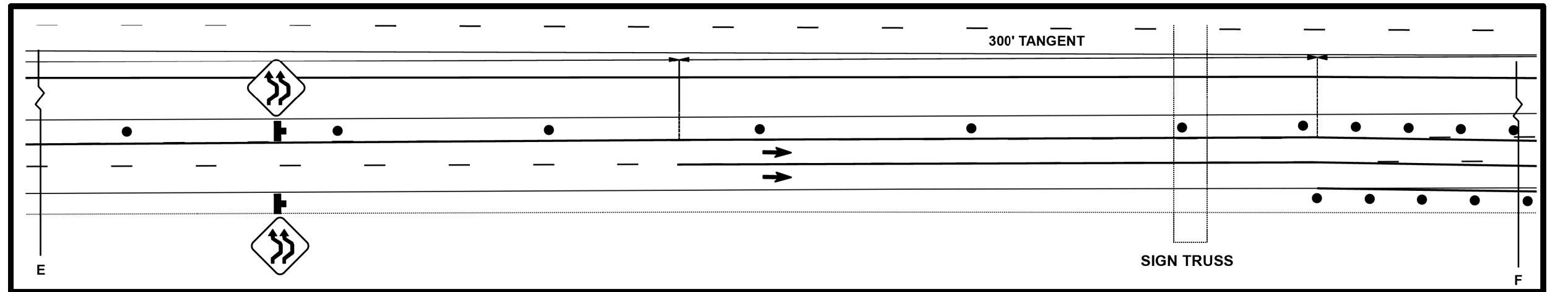
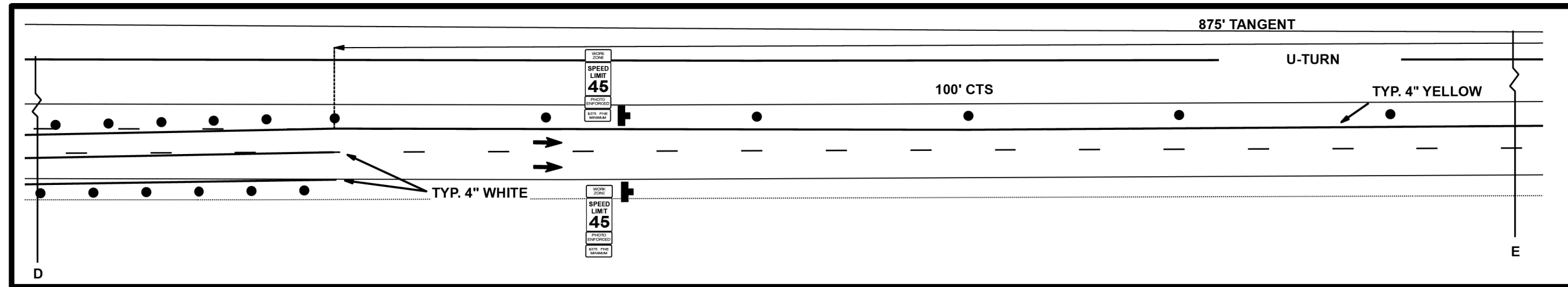
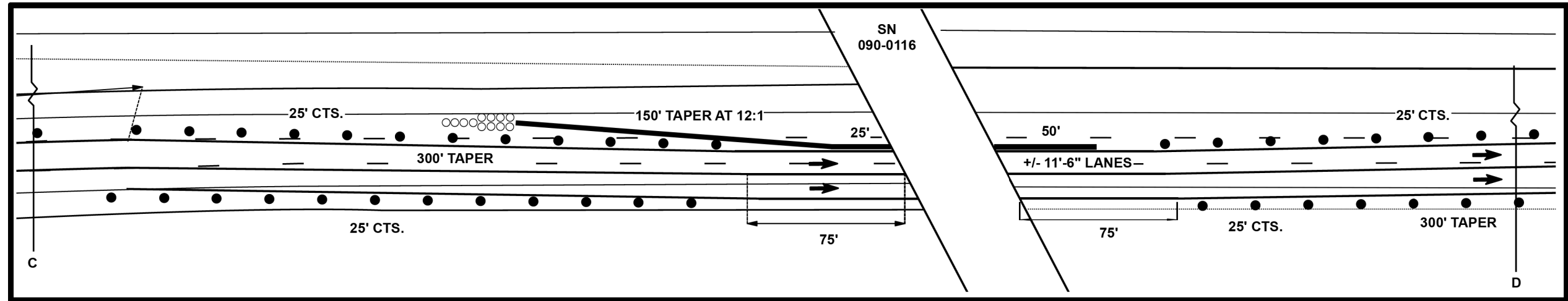
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 1 & 2 TRAFFIC CONTROL EB STAGE 1

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|--------------------|-------------------------|----------|---------------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 36 |
| CONTRACT NO. 68E37 | | | ILLINOIS FED. AID PROJECT | |

090-0116/0117-EASTBOUND STAGE 1



MODEL: \$MODELNAME\$
FILE NAME: \$FILES\$

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS\$ | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

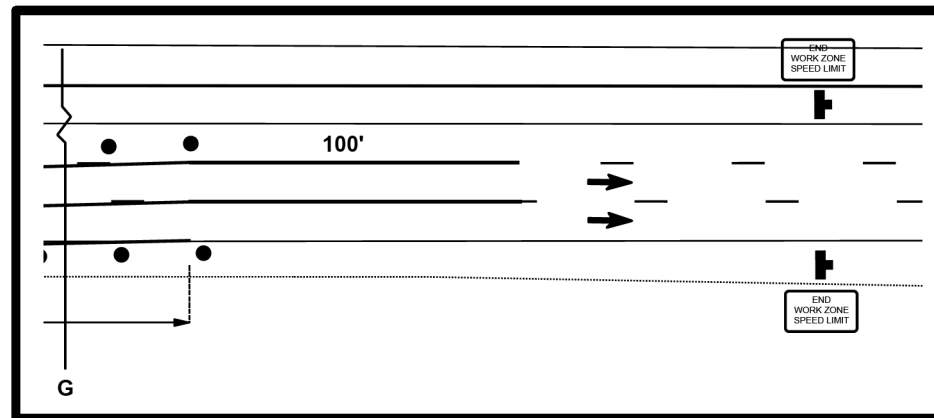
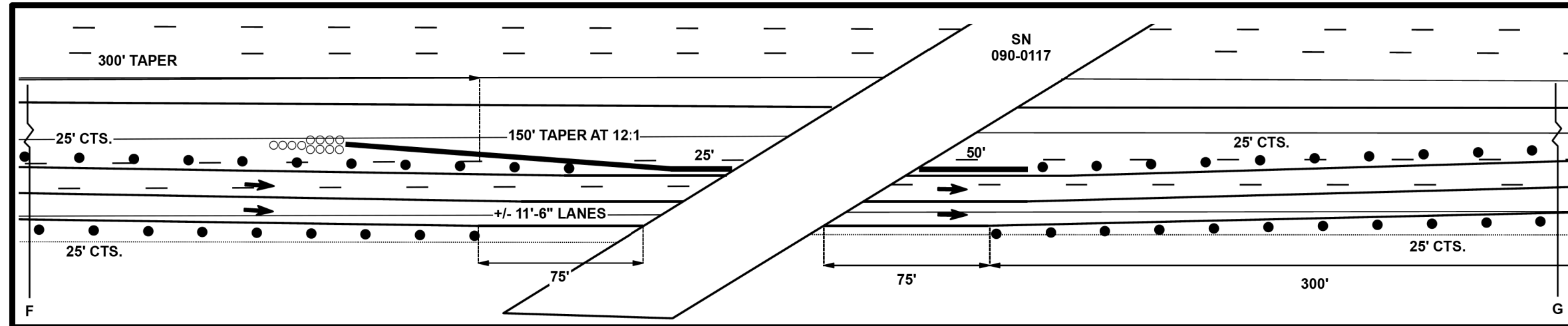
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 1 & 2 TRAFFIC CONTROL EB STAGE 1

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|------------------------------------|--------------------|--------------------|-----------------|
| F.A.I. RTE. 474/74 | SECTION D4 BRIDGE PAINTING 2019 | COUNTY TAZEWELL | TOTAL SHEETS 50 | SHEET NO. 37 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 68E37 | |

090-0116/0117-EASTBOUND STAGE 1



MODEL: \$MODELNAME\$
FILE NAME: \$FILE\$

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

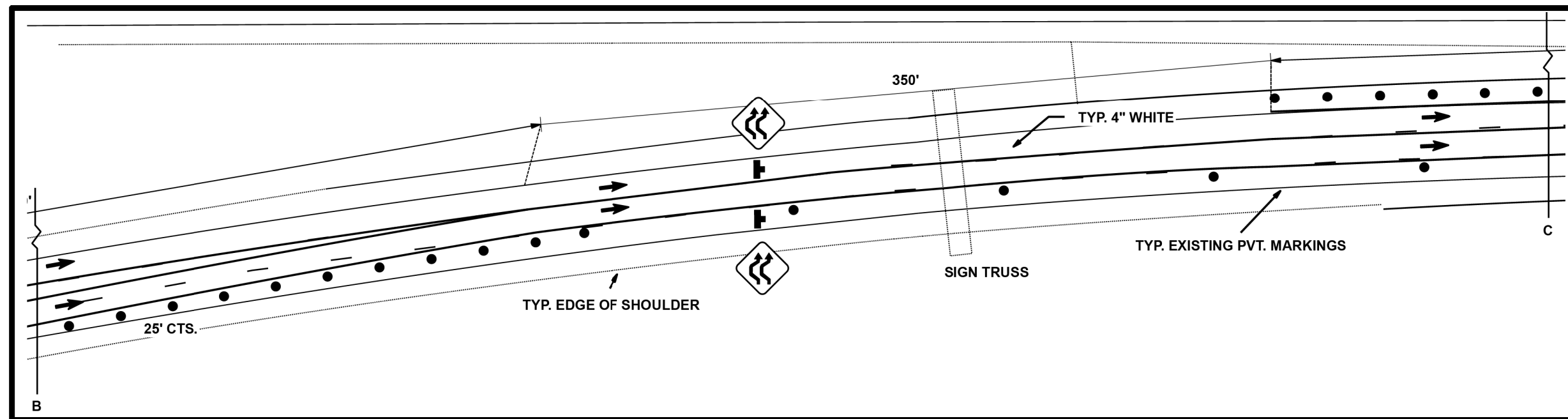
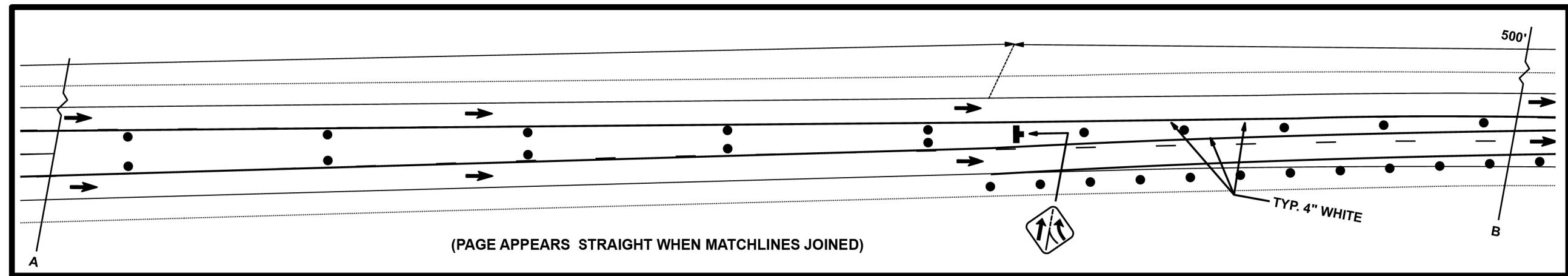
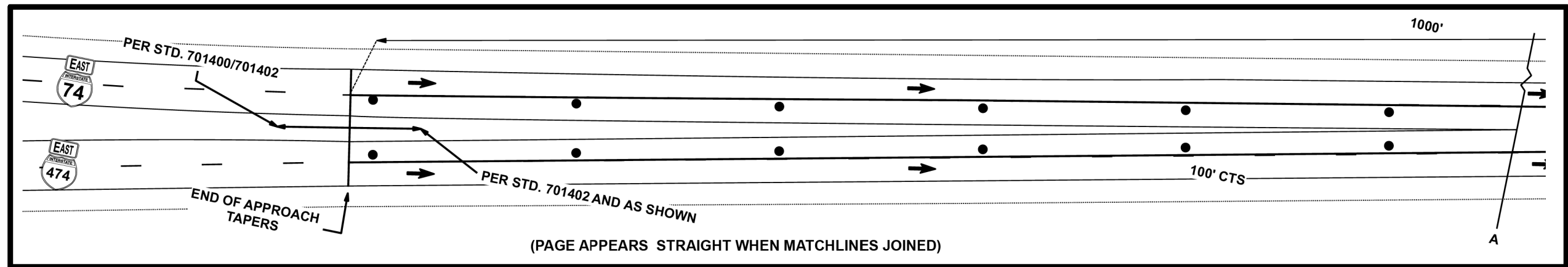
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 1 & 2 TRAFFIC CONTROL EB STAGE 1

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|--------------------|-------------------------|----------|---------------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 38 |
| CONTRACT NO. 68E37 | | | ILLINOIS FED. AID PROJECT | |

090-0116/0117-EASTBOUND STAGE 2



MODEL: S:\MODEL\NAMES
FILE NAME: S:\FILES

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

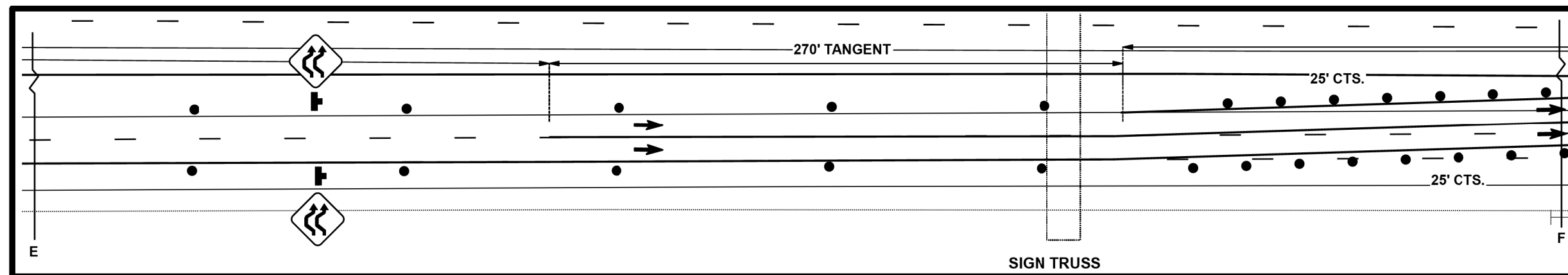
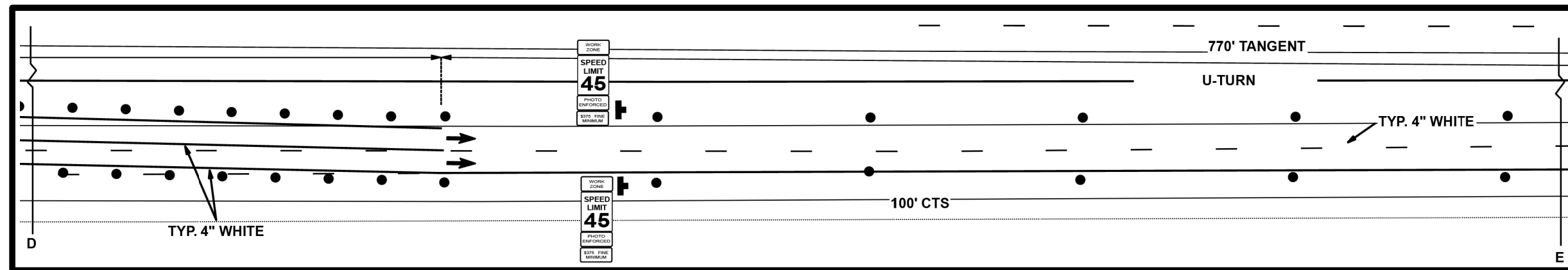
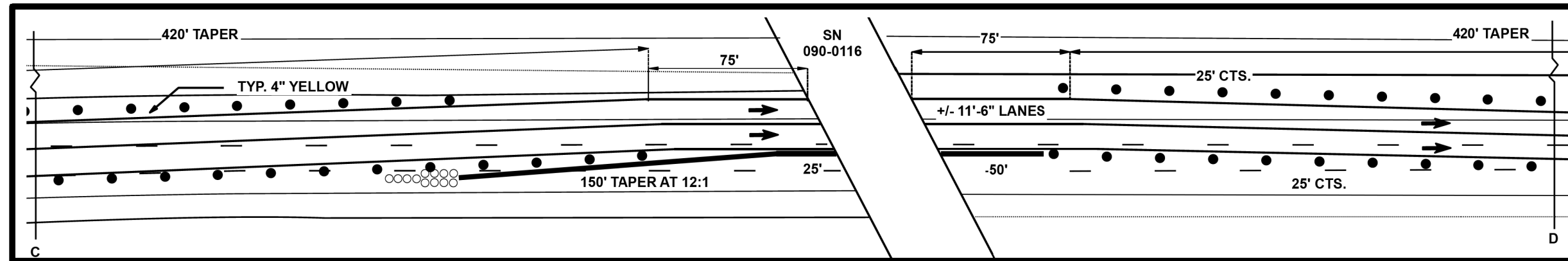
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 1 & 2 TRAFFIC CONTROL EB STAGE 2

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------------|----------|--------------------|-----------|
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 39 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 68E37 | |

090-0116/0117-EASTBOUND STAGE 2



MODEL: S:\MODEL\NAMES
FILE NAME: S:\FILES

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

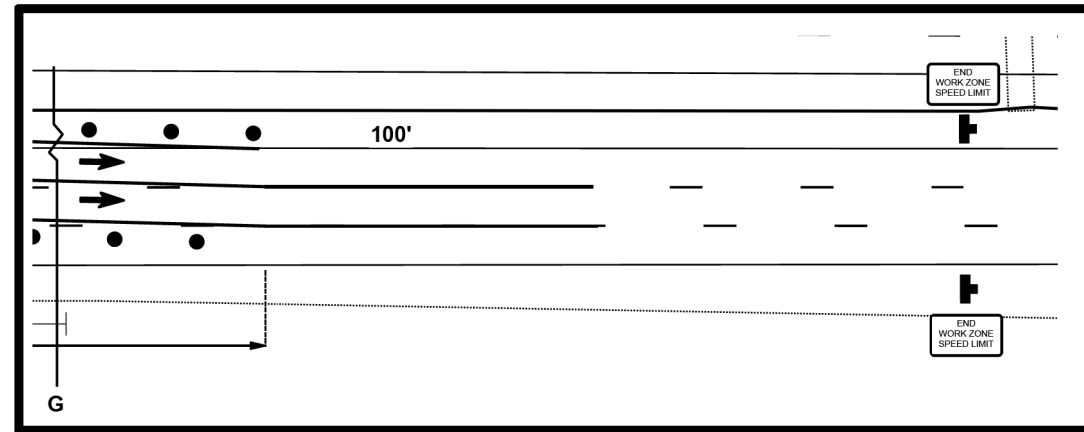
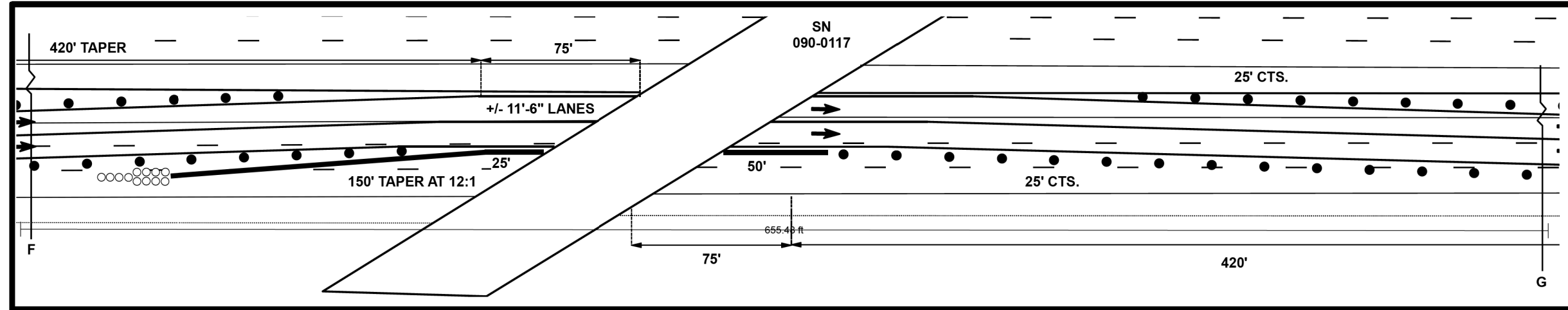
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 1 & 2 TRAFFIC CONTROL EB STAGE 2

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|------------------------------------|--------------------|--------------------|-----------------|
| F.A.I. RTE. 474/74 | SECTION D4 BRIDGE PAINTING 2019 | COUNTY TAZEWELL | TOTAL SHEETS 50 | SHEET NO. 40 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 68E37 | |

090-0116/0117-EASTBOUND STAGE 2



MODEL: S:\MODEL\NAMES
FILE NAME: S:\FILES

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 1 & 2 TRAFFIC CONTROL EB STAGE 2

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|--------------------------|------------------------------------|--------------------|---------------------------|--------------------|
| F.A.I. RTE. 474/74 | SECTION D4 BRIDGE PAINTING 2019 | COUNTY TAZEWELL | TOTAL SHEETS 50 | SHEET NO. 41 |
| CONTRACT NO. 68E37 | | | ILLINOIS FED. AID PROJECT | |

090-0116/0117-WESTBOUND/EASTBOUND STAGE 1 AND 2

STAGE 1-WESTBOUND

QUANTITIES PROVIDED FOR INFORMATION ONLY.

STANDARD 701402

STANDARD 701411

STANDARD 701428

STANDARD 701406

TEMPORARY CONCRETE BARRIER- 650'

TEMPORARY, NON-REDIRECTIVE
TL 3 IMPACT ATTENUATOR- 2 EACH

TYPE IV TAPE - 4" WHITE-7700'

TYPE IV TAPE - 4' YELLOW-1640'

BLACKOUT TAPE-6"- 2000'

TEMP. PVT. MARKING REMOVAL- 4100 SQFT

STAGE 2-WESTBOUND

QUANTITIES PROVIDED FOR INFORMATION ONLY.

STANDARD 701411

STANDARD 701428

STANDARD 701406

REL. TEMPORARY CONCRETE BARRIER- 300'

REL. TEMPORARY, NON-REDIRECTIVE
TL 3 IMPACT ATTENUATOR- 2 EACH

TYPE IV TAPE - 4" WHITE-6525'

TYPE IV TAPE - 4' YELLOW-6090'

BLACKOUT TAPE-6"- 1400'

TEMP. PVT. MARKING REMOVAL- 4865 SQFT

STAGE 1-EASTBOUND

QUANTITIES PROVIDED FOR INFORMATION ONLY.

STANDARD 701402-2 EACH (I-474 & I-74)

STANDARD 701428

STANDARD 701426

STANDARD 701406

REL. TEMPORARY CONCRETE BARRIER- 650'

REL. TEMPORARY, NON-REDIRECTIVE
TL 3 IMPACT ATTENUATOR- 2 EACH

TYPE IV TAPE - 4" WHITE-8180'

TYPE IV TAPE - 4' YELLOW-4915'

BLACKOUT TAPE-6"- 2260'

TEMP. PVT. MARKING REMOVAL- 5455 SQFT

STAGE 2-EASTBOUND

QUANTITIES PROVIDED FOR INFORMATION ONLY.

STANDARD 701428

STANDARD 701426

STANDARD 701406

REL. TEMPORARY CONCRETE BARRIER- 300'

REL. TEMPORARY, NON-REDIRECTIVE
TL 3 IMPACT ATTENUATOR- 2 EACH

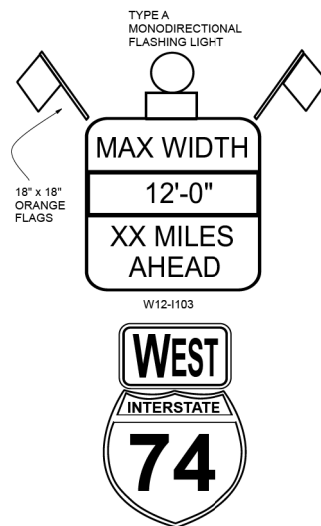
TYPE IV TAPE - 4" WHITE-8250'

TYPE IV TAPE - 4' YELLOW-2120'

BLACKOUT TAPE-6"- 2410'

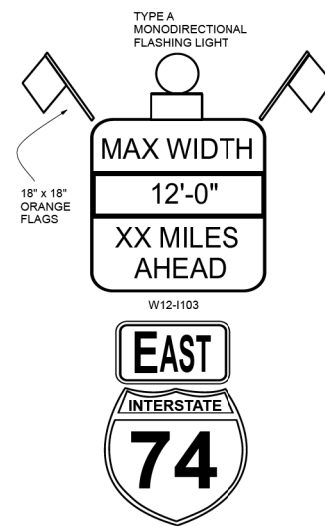
TEMP. PVT. MARKING REMOVAL- 4627 SQFT

WESTBOUND



TWO (2) ASSEMBLIES ON WB I-74 PRIOR TO SB I-155 EXIT RAMP. ONE (1) ASSEMBLY ON NB I-155 PRIOR TO EXIT RAMP TO WB I-74.

EASTBOUND



TWO (2) ASSEMBLIES ON EB I-474 PRIOR TO IL 29 EXIT RAMP AND ONE (1) ON NB AND SB IL 29. TWO (2) ASSEMBLIES ON EB I-74 PRIOR TO THE WB I-474 EXIT RAMP

MODEL: SMODELNAMES
FILE NAME: SFILES

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 1 & 2 TRAFFIC CONTROL EB /WB NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|-------------------------|---------------------------|--------------------|-----------|
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 42 |
| | | | CONTRACT NO. 68E37 | |
| | | ILLINOIS FED. AID PROJECT | | |

090-0102-EASTBOUND STAGE 1 AND 2

090-0102: STAGE 1

QUANTITIES PROVIDED FOR INFORMATION ONLY.

STANDARD 701402

STANDARD 701428

REL. TEMPORARY CONCRETE BARRIER- 325'

REL. TEMPORARY, NON-REDIRECTIVE
TL 3 IMPACT ATTENUATOR- 1 EACH

TYPE IV TAPE - 4' YELLOW-1955'

TEMP. PVT. MARKING REMOVAL- 645 SQFT

090-0102: STAGE 2

QUANTITIES PROVIDED FOR INFORMATION ONLY.

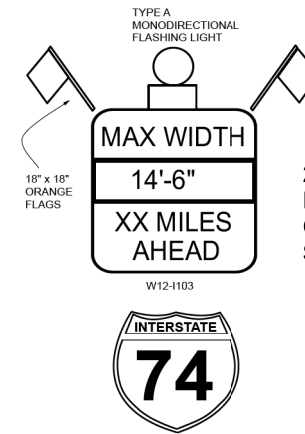
STANDARD 701428

REL. TEMPORARY CONCRETE BARRIER- 150'

REL. TEMPORARY, NON-REDIRECTIVE
TL 3 IMPACT ATTENUATOR- 1 EACH

TYPE IV TAPE - 4' WHITE-1955'

TEMP. PVT. MARKING REMOVAL- 645 SQFT



2 ASSEMBLIES REQUIRED. TO BE
PLACED PRIOR TO I-74 EB EXIT 99.
COST INCLUDED IN TRAFFIC CONTROL
STANDARDS FOR THIS LOCATION.

090-0102 EASTBOUND STAGE 1 AND 2

TEMPORARY CONCRETE BARRIER WALL SHALL BE PLACED AS SHOWN ON STANDARD 701402.

ONE ADDITIONAL PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) SHALL BE USED FOR THE DURATION OF
BOTH STAGES. PCMS WILL ADVANCE WARN MOTORISTS. COST SHALL BE INCLUDED IN TRAFFIC CONTROL
STANDARDS FOR THIS LOCATION.

MODEL: \$MODELNAME\$
FILE NAME: \$FILES\$

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 3 TRAFFIC CONTROL EB NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|-------------------------|----------|--------------------|-----------|
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 43 |
| | | | CONTRACT NO. 68E37 | |
| | | ILLINOIS | FED. AID PROJECT | |

090-0118-WESTBOUND STAGE 1 AND 2

090-0118: STAGE 1

QUANTITIES PROVIDED FOR INFORMATION ONLY.

STANDARD 701402

STANDARD 701428

REL. TEMPORARY CONCRETE BARRIER- 325'

REL. TEMPORARY, NON-REDIRECTIVE
TL 3 IMPACT ATTENUATOR- 1 EACH

TYPE IV TAPE - 4' YELLOW-2555'

TEMP. PVT. MARKING REMOVAL- 845 SQFT

090-0118: STAGE 2

QUANTITIES PROVIDED FOR INFORMATION ONLY.

STANDARD 701428

REL. TEMPORARY CONCRETE BARRIER- 150'

REL. TEMPORARY, NON-REDIRECTIVE
TL 3 IMPACT ATTENUATOR- 1 EACH

TYPE IV TAPE - 4' WHITE-2555'

TEMP. PVT. MARKING REMOVAL- 845 SQFT

090-0118 WESTBOUND STAGE 1 AND 2

600' OF ADDITIONAL TYPE IV TAPE-4" IS INCLUDED IN THE ABOVE QUANTITIES. THE TAPER FOR BOTH

STAGES SHALL START AT THE EAST ABUTMENT OF SN 090-0102.

TEMPORARY CONCRETE BARRIER WALL SHALL BE PLACED AS SHOWN ON STANDARD 701402.

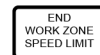
ONE ADDITIONAL PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) SHALL BE USED FOR THE DURATION OF BOTH STAGES. PCMS WILL ADVANCE WARN MOTORISTS. COST SHALL BE INCLUDED IN TRAFFIC CONTROL STANDARDS FOR THIS LOCATION.

STANDARD 701400- WILL EXTEND INTO WESTBOUND I-74 AND BE SIGNED ACCORDING TO STD. 701400.THE

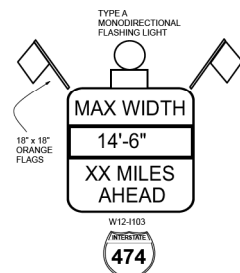
BELOW SIGNS SHALL BE AS SHOWN FOR SN 090-0118. COST SHALL BE INCLUDED IN STANDARD 701402.



PLACE I-474 PLACARD AS SHOWN FOR SIGNAGE ON I-74. APPLIES TO RIGHT/LEFT LANE CLOSURES.



PLACE TWO ASSEMBLIES ON WB I-74 500' BEYOND THE I-74/I-474 GORE.



TWO SIGNS PLACED PRIOR TO I-474 ON I-74. STAGE 1 AND 2.

MODEL: SMODELNAMES
FILE NAME: SFILES

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

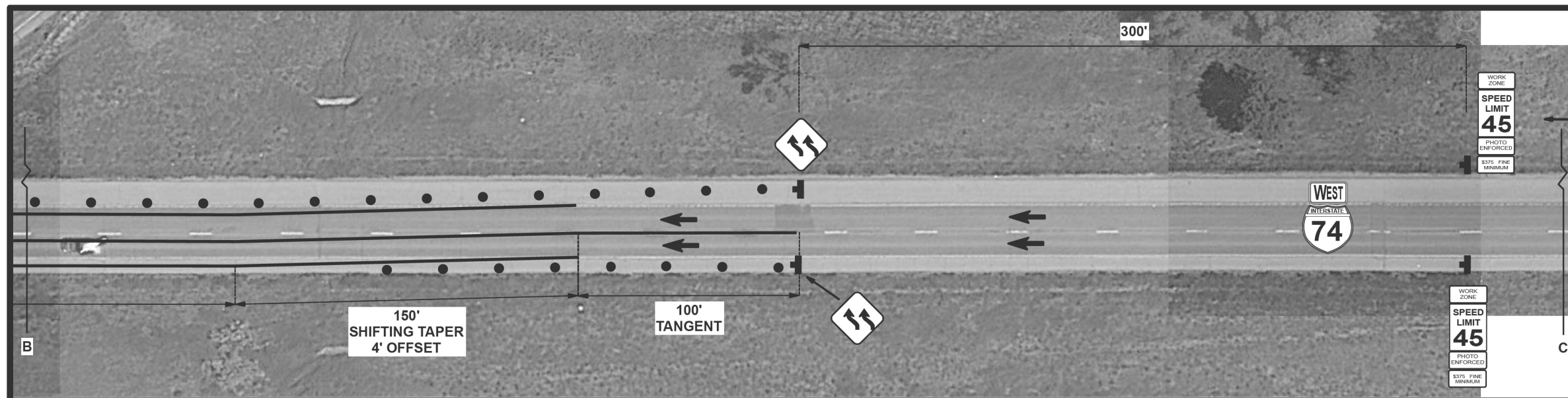
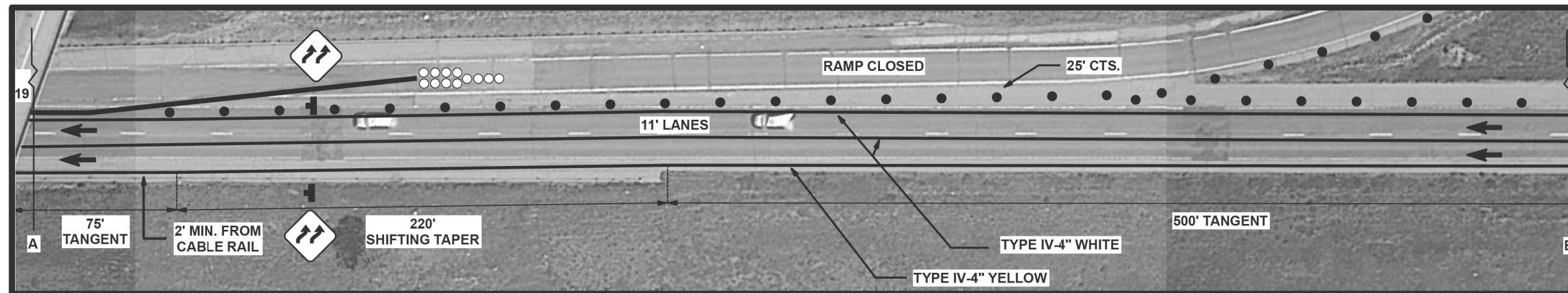
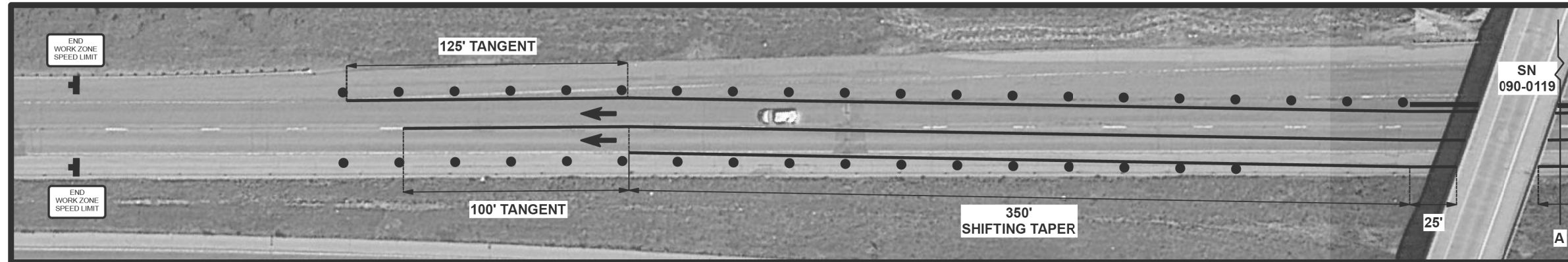
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 4 TRAFFIC CONTROL WB NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|-------------------------|----------|--------------------|-----------|
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 44 |
| | | | CONTRACT NO. 68E37 | |
| | | ILLINOIS | FED. AID PROJECT | |

090-0119-WESTBOUND STAGE 1



MODEL: \$MODELNAME\$
FILE NAME: \$FILE\$

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

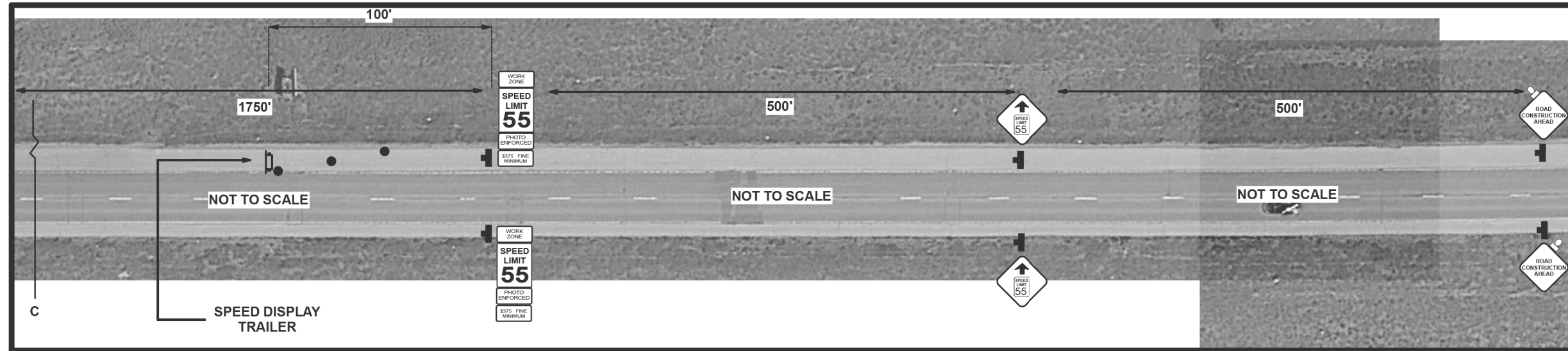
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 5 TRAFFIC CONTROL WB STAGE 1

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|-------------|-------------------------|---------------------------|--------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 45 |
| | | | CONTRACT NO. 68E37 | |
| | | ILLINOIS FED. AID PROJECT | | |

090-0119-WESTBOUND STAGE 1



090-0119: STAGE 1

QUANTITIES PROVIDED FOR INFORMATION ONLY.

STANDARD 701402

STANDARD 701428

REL. TEMP. CONCRETE BARRIER- 325'

REL. TEMPORARY, NON-REDIRECTIVE
TL 3 IMPACT ATTENUATOR- 1 EACH

STANDARD 701406

TYPE IV TAPE - 4' WHITE- 3070'

TYPE IV TAPE - 4' YELLOW- 1285'

BLACKOUT TAPE- 6"- 1750'

TEMP. PVT. MARKING REMOVAL- 1,437 SQFT

(BLACKOUT TAPE TO REMAIN IN PLACE FOR
STAGE 2 TRAFFIC CONTROL)

MODEL: \$MODELNAME\$
FILE NAME: \$FILES\$

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS\$ | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

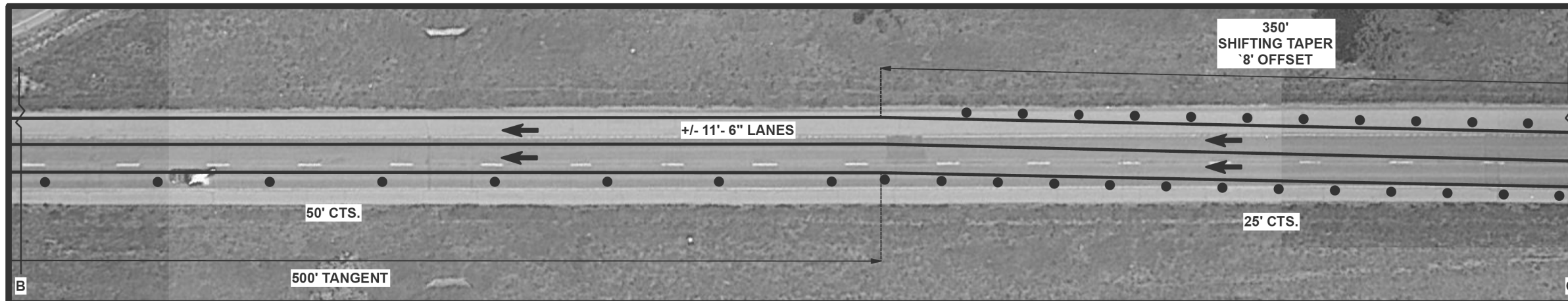
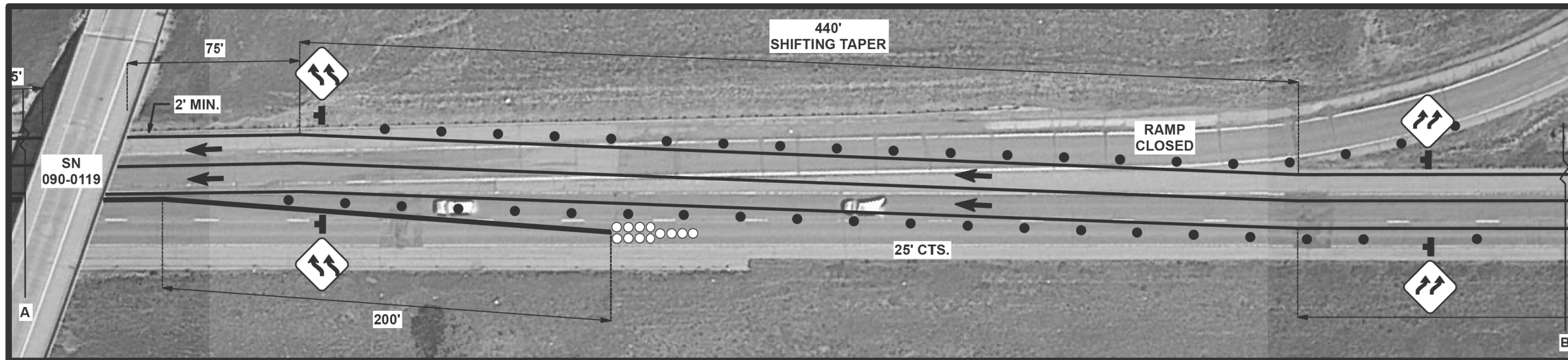
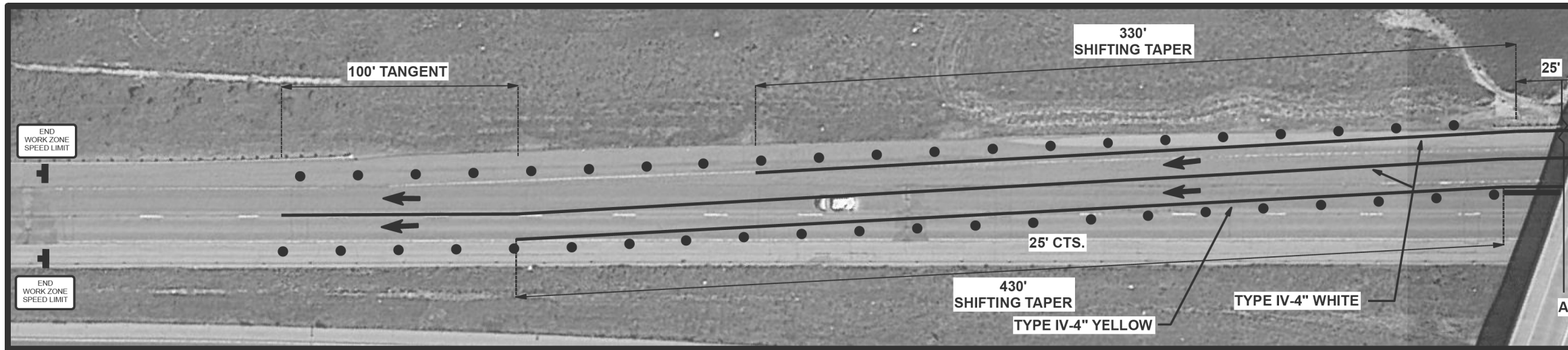
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 5 TRAFFIC CONTROL WB STAGE 1

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|-------------------------|------------------|--------------|-----------|
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 46 |
| CONTRACT NO. 68E37 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |

090-0119-WESTBOUND STAGE 2



MODEL: \$MODELNAME\$
FILE NAME: \$FILES\$

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 5 TRAFFIC CONTROL WB STAGE 2

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|-------------------------|----------|--------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 47 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 68E37 | |

THIS SHEET LEFT INTENTIONALLY BLANK

MODEL: \$MODELNAME
FILE NAME: \$FILE

| | | |
|-----------------------|------------|-----------|
| USER NAME = \$USERS | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALES | CHECKED - | REVISED - |
| PLOT DATE = \$DATES | DATE - | REVISED - |

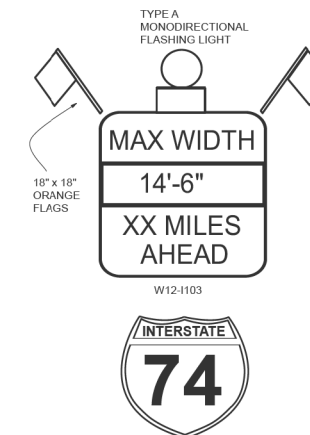
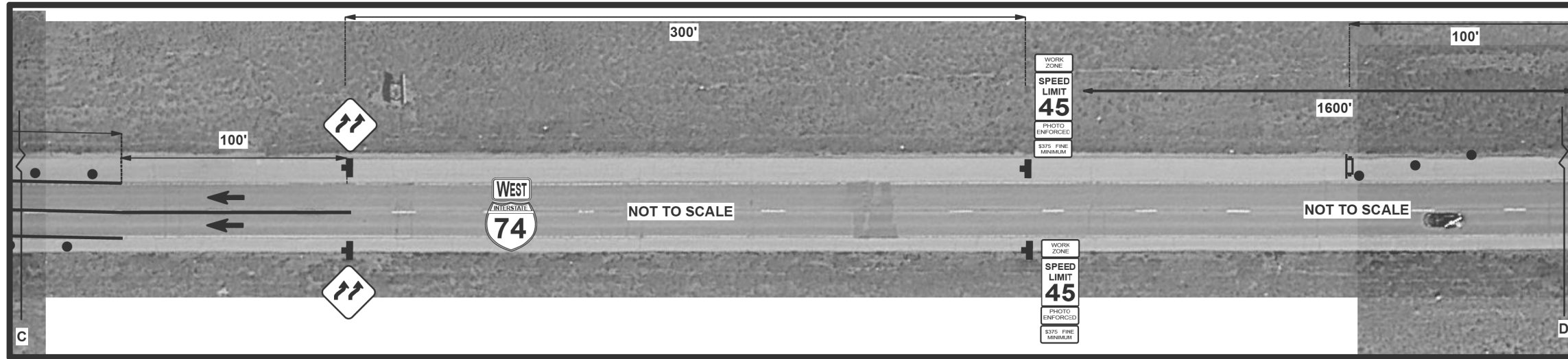
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 5 TRAFFIC CONTROL WB STAGE 2

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.J RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-------------------------|----------|-----------------|--------------|
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 48 |
| CONTRACT NO. 68E37 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

090-0119-WESTBOUND STAGE 2



2 ASSEMBLIES REQUIRED. TO BE PLACED PRIOR TO I-474/ I-74 SPLIT.

090-0119 WESTBOUND STAGE 2

090-0119 : QUANTITIES PROVIDED FOR INFORMATION ONLY.

STANDARD 701406

STANDARD 701428

REL. TEMPORARY CONCRETE BARRIER- 150'

REL. TEMPORARY, NON-REDIRECTIVE TL 3 IMPACT ATTENUATOR- 1 EACH

TYPE IV TAPE - 4" WHITE- 3,840"

TYPE IV TAPE - 4" YELLOW- 1,870'

BLACKOUT TAPE- 6"- 1891'

TEMP. PVT. MARKING REMOVAL- 3,705 SQFT

(INCLUDES BLACKOUT TAPE FROM STAGE 1)

090-0119 WESTBOUND STAGE 1 AND 2

TEMPORARY CONCRETE BARRIER WALL SHALL BE PLACED AS SHOWN ON STANDARD 701402. PLACEMENT MAY VARY DEPENDING UPON FIELD CONDITIONS. A MINIMUM LANE WIDTH OF 11' SHALL BE REQUIRED FOR THIS LOCATION.

ROAD CONSTRUCTION-3 MILES, "HIT A WORKER", AND PORTABLE CHANGEABLE MESSAGE SIGN (PCMS), AS SHOWN ON STANDARD 701400 SHALL BE USED AND INCLUDED .

ONE ADDITIONAL PCMS SHALL BE USED FOR THE DURATION OF BOTH STAGES. PCMS WILL ADVANCE WARN MOTORISTS AND LOCATION SHALL BE DISCUSSED AT PRE-CONSTRUCTION MEETING. COST OF PCMS SHALL BE INCLUDED IN TRAFFIC CONTROL SPECIAL.

EB I-474 EXIT 15- EXIT RAMP TO BE CLOSED PER STANDARD 701451 FOR WESTBOUND 090-0119 ONLY. ONE ADDITIONAL PCMS SHALL BE PLACED. COST OF PCMS SHALL BE INCLUDED IN TRAFFIC CONTROL SPECIAL.

RE-ENTER

WB I-74

VIA

EB I-74

EXIT 102

MORTON

PCMS MESSAGE FOR EXIT 15 CLOSURE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 5 TRAFFIC CONTROL WB STAGE 2

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|-------------------------|----------|--------------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 49 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 68E37 | |

090-0119-EASTBOUND STAGE 1 AND 2

090-0119: STAGE 1

QUANTITIES PROVIDED FOR INFORMATION ONLY.

STANDARD 701402

STANDARD 701428

TEMPORARY CONCRETE BARRIER- *325'

TEMPORARY, NON-REDIRECTIVE
TL 3 IMPACT ATTENUATOR- *1 EACH

TYPE IV TAPE - 4' WHITE- 1955'

TYPE IV TAPE - 4' YELLOW- 455'

TEMP. PVT. MARKING REMOVAL- 795 SQFT

*= EITHER INITIAL SET-UP OR RELOCATED
DEPENDING ON CONTRACTOR'S STARTING
POINT

090-0119: STAGE 2

QUANTITIES PROVIDED FOR INFORMATION ONLY.

STANDARD 701428

RELOCATE TEMPORARY CONCRETE BARRIER- *325'

RELOCATE TEMPORARY, NON-REDIRECTIVE
TL 3 IMPACT ATTENUATOR- *1 EACH

TYPE IV TAPE - 4' WHITE- 455'

TYPE IV TAPE - 4' YELLOW- 1955'

TEMP. PVT. MARKING REMOVAL- 795 SQFT



2 ASSEMBLIES REQUIRED. TO BE
PLACED PRIOR TO I-74 EB EXIT 99.
COST INCLUDED IN TRAFFIC CONTROL
STANDARDS FOR EASTBOUND STAGE
1 AND 2-090-0119.

090-0119 EASTBOUND STAGE 1 AND 2

TEMPORARY CONCRETE BARRIER WALL SHALL BE PLACED AS SHOWN ON STANDARD 701402. PLACEMENT

ONE ADDITIONAL PCMS SHALL BE USED FOR THE DURATION OF BOTH STAGES. PCMS WILL ADVANCE WARN

MOTORISTS. COST SHALL BE INCLUDED IN TRAFFIC CONTROL STANDARDS FOR THIS LOCATION.

MODEL: \$MODELNAME\$
FILE NAME: \$FILES\$

| | | |
|------------------------|------------|-----------|
| USER NAME = \$USERS\$ | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = \$SCALE\$ | CHECKED - | REVISED - |
| PLOT DATE = \$DATE\$ | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 5 TRAFFIC CONTROL EB STAGE 1 & 2 NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|-------------------------|----------|--------------------|-----------|
| 474/74 | D4 BRIDGE PAINTING 2019 | TAZEWELL | 50 | 50 |
| | | | CONTRACT NO. 68E37 | |
| | | ILLINOIS | FED. AID PROJECT | |