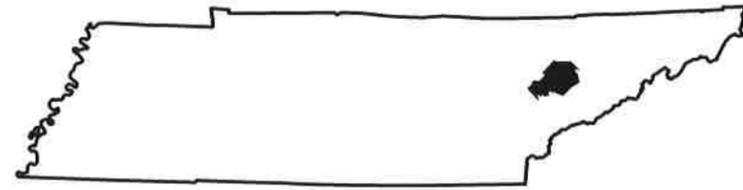


| TYPE | YEAR | PROJECT NO. | SHEET NO. |
|------|------|-------------|-----------|
| | 2016 | STP-62(25) | 2 |
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KNOX COUNTY

X341

STATE ROUTE 62
(WESTERN AVENUE)
OVER
CSX RAILROAD,
KNOXVILLE AND HOLSTON
RAILROAD AND EAST
FORK THIRD CREEK
STATION 119+62.00
CONTINUOUS STEEL
TUB GIRDERS (84"
WEB-GRADE 50W)
WITH COMPOSITE
DECK SLAB

3 SPAN:
SPAN NO. 1 = 173'-0"
SPAN NO. 2 = 260'-0"
SPAN NO. 3 = 173'-0"
TOTAL LENGTH = 606'-0"

90°00'00" SKEW

LAYOUT DRAWING NO.
U-64-58

| ESTIMATED BRIDGE QUANTITIES | | | |
|-----------------------------|--|----------|------|
| ITEM NO. | DESCRIPTION | QUANTITY | UNIT |
| 204-02.01 | DRY EXCAVATION (BRIDGES) | 912 | C.Y. |
| 204-03.01 | WET EXCAVATION | 48 | C.Y. |
| 204-04.01 | ROCK EXCAVATION (BRIDGES) | 265 | C.Y. |
| 204-05 | ROCK DRILLING (BRIDGES) | 120 | L.F. |
| 303-01.02 | GRANULAR BACKFILL (BRIDGES) | 68 | TONS |
| 602-04.01 | STEEL STRUCTURES | 1 | L.S. |
| 604-02.03 | EPOXY COATED REINFORCING STEEL | 741,790 | LB. |
| 604-03.01 | CLASS "A" CONCRETE (BRIDGES) | 917 | C.Y. |
| 604-03.02 | STEEL BAR REINFORCEMENT (BRIDGES) | 188,408 | LB. |
| 604-03.04 | PAVEMENT AT BRIDGE ENDS | 518 | S.Y. |
| 604-03.09 | CLASS "D" CONCRETE (BRIDGE DECK) | 1,777 | C.Y. |
| 604-04.01 | APPLIED TEXTURE FINISH (NEW STRUCTURES) | 1,869 | S.Y. |
| 604-05.31 | BRIDGE DECK GROOVING (MECHANICAL) | 5,959 | S.Y. |
| 606-02.03 | STEEL PILES (10 INCH) | 1,560 | L.F. |
| 606-02.06 | PILE TIPS (STEEL PILES, 10 INCH) | 66 | EA. |
| 620-05 | CONCRETE PARAPET WITH STRUCTURAL TUBING (STD-11-1) | 1,306 | L.F. |
| 710-09.01 | 6" PERFORATED PIPE WITH VERTICAL DRAIN SYSTEM | 218 | L.F. |
| 710-09.02 | 6" PIPE UNDERDRAIN | 50 | L.F. |
| 714-01.01 | STRUCTURAL LIGHTING | 1 | L.S. |

FOOTNOTE: SEE DWG. NO. U-64-59

LIST OF DRAWINGS

| | LAST DWG. NO. REV. DATE |
|---------------------|----------------------------|
| LAYOUT | U-64-58 |
| TO | |
| BILL OF STEEL | U-64-106 |

LIST OF STANDARD DRAWINGS

| | LAST DWG. NO. REV. DATE |
|--|----------------------------|
| SAFETY APPROACH TO UNDERPASSES GRADING | |
| DESIGN & SLOPE PROTECTION | RD01-SA-1 10-15-02 |
| SLIDER PLATES AND DECK DRAINS | STD-1-2 3-28-08 |
| REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS | STD-1-5 3-26-14 |
| BRIDGE END DRAIN DETAILS 2'x8'-7" & 4'x8'-7" WITH PAVEMENT AT BRIDGE ENDS | STD-1-6 4-28-97 |
| BRIDGE END DRAIN DETAILS 2'x8'-7" & 4'x8'-7" WITH PAVEMENT AT BRIDGE ENDS | STD-1-7 8-24-11 |
| BRIDGE END DRAIN DETAILS 2'x8'-7" WITH PAVEMENT AT BRIDGE ENDS | STD-1-8 5-1-95 |
| STRIP SEAL EXPANSION JOINT NEW CONSTRUCTION | STD-3-1 11-1-10 |
| STRIP SEAL EXPANSION JOINT NEW CONSTRUCTION | STD-3-2 11-1-10 |
| STANDARD PILE DETAILS | STD-5-1 10-25-93 |
| STANDARD PILE DETAILS | STD-5-2 5-01-14 |
| STANDARD SEISMIC DETAILS | STD-6-2 11-07-94 |
| LIGHT STANDARD SUPPORT DETAILS | STD-8-2 11-01-10 |
| REINF. BAR SUPPORT DETAILS FOR CONC. SLABS | STD-9-1 10-07-08 |
| MISCELLANEOUS ABUTMENT & DRAINAGE DETAILS | STD-10-1 4-08-05 |
| BRIDGE RAILING WITH STRUCTURAL TUBING | STD-11-1 5-01-14 |

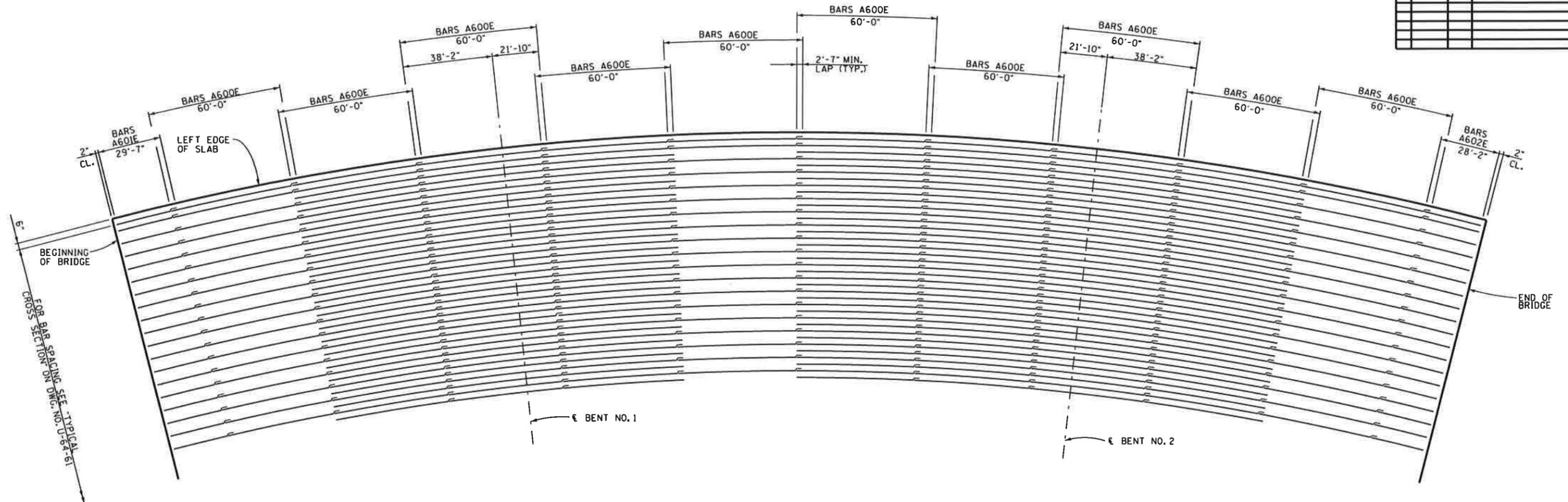
LIST OF SPECIAL PROVISIONS

| | LAST DWG. NO. REV. DATE |
|------------------------|----------------------------|
| STEEL STRUCTURES | 602 3-01-06 |

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED
BRIDGE
QUANTITIES

| CONST. NO. 47023-2261-14 | | | |
|--------------------------|------|-----------|-------------------|
| PROJECT NO. | YEAR | SHEET NO. | |
| STP-62(25) | 2014 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
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PARTIAL PLAN OF MAIN REINFORCEMENT

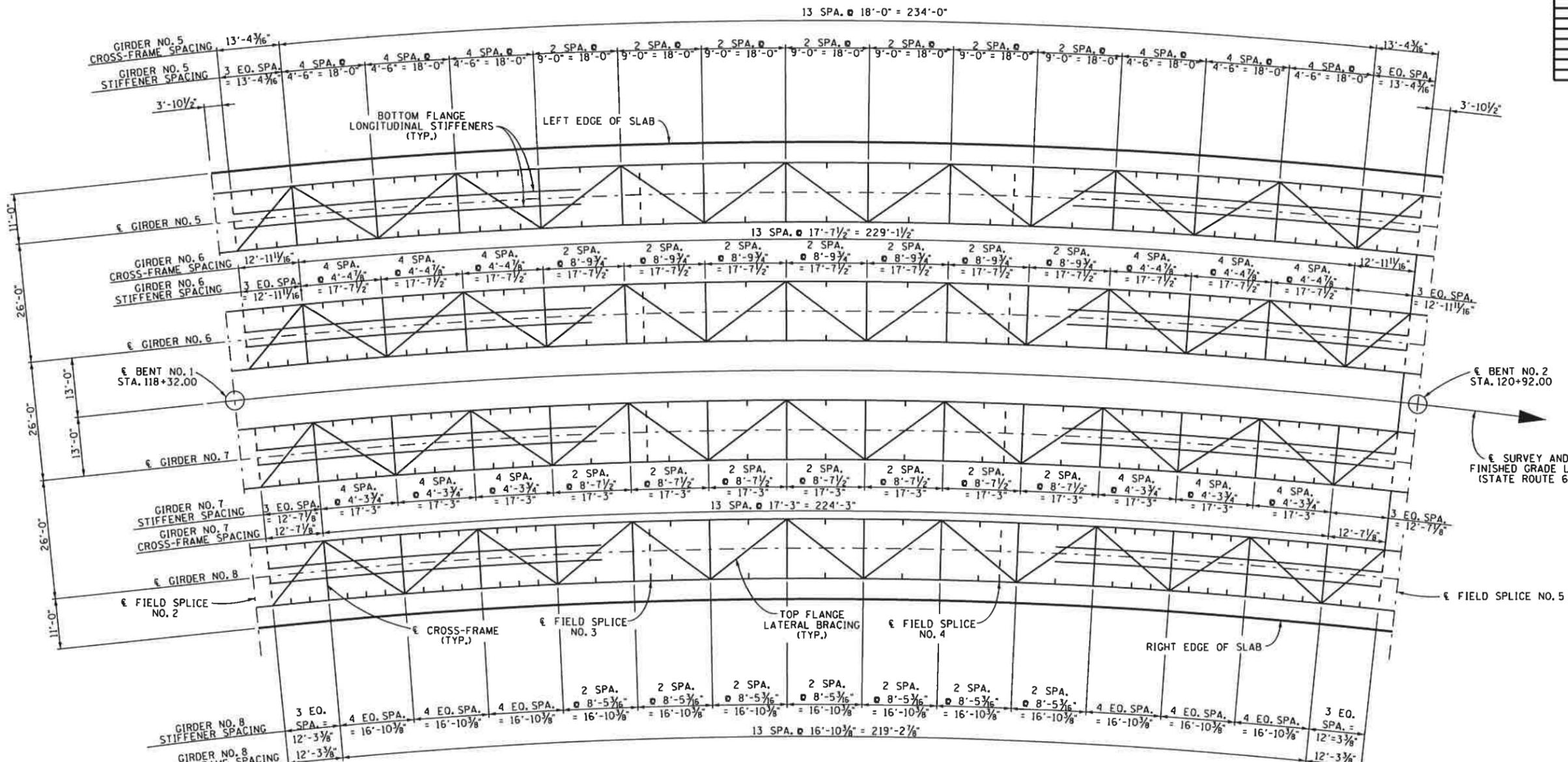


STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BRIDGE NO. 1
 SUPERSTRUCTURE DETAILS
 STATE ROUTE 62 (WESTERN AVENUE)
 OVER
 CSX RAILROAD,
 KNOXVILLE AND HOLSTON
 RIVER RAILROAD,
 AND EAST FORK THIRD CREEK
 STATION 119+62.00
 KNOX COUNTY
 2016

CORRECT *Deanne J. Soper*
 ENGINEER OF STRUCTURES

DESIGNED BY ADAM PRICE DATE 08-09
 DRAWN BY D.W. KORNIKOSKI DATE 02-11
 SUPERVISED BY C.M.D./J.W.F. DATE 02-11
 CHECKED BY ADAM PRICE DATE 08-13

| | | | |
|--------------------------|------|-----------|-------------------|
| CONST. NO. 47023-2261-14 | | | |
| PROJECT NO. | YEAR | SHEET NO. | |
| STP-62(25) | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
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FRAMING PLAN
(SHOWING SPAN NO. 2 ONLY)

NOTE: ALL SUBSTRUCTURES, CROSS-FRAMES, INTERMEDIATE STIFFENERS, AND SPLICES ARE RADIAL TO SURVEY STATE ROUTE 62.

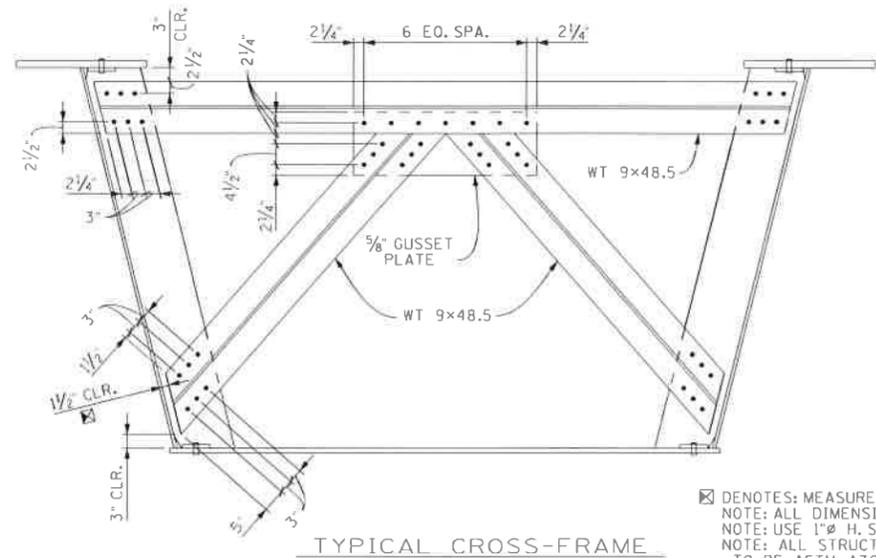


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
SUPERSTRUCTURE DETAILS
SPAN NO. 2
STATE ROUTE 62
(WESTERN AVENUE)
OVER
CSX RAILROAD, KNOXVILLE
AND HOLSTON RIVER RAILROAD,
AND EAST FORK THIRD CREEK
STATION 119+62.00
KNOX COUNTY
2016

DESIGNED BY ADAM PRICE DATE 02-09
DRAWN BY G. W. KORNICKSKI DATE 04-11
SUPERVISED BY W. F. C.M.D. DATE 04-11
CHECKED BY ADAM PRICE DATE 06-13

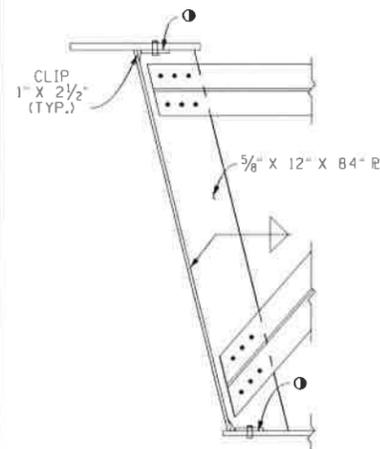
CORRECT *Dayne J. Sapp*
ENGINEER OF STRUCTURES

| | | | |
|--------------------------|------|-----------|-------------------|
| CONST. NO. 47023-XXXX-14 | | | |
| PROJECT NO. | YEAR | SHEET NO. | |
| STP-62(25) | 2014 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
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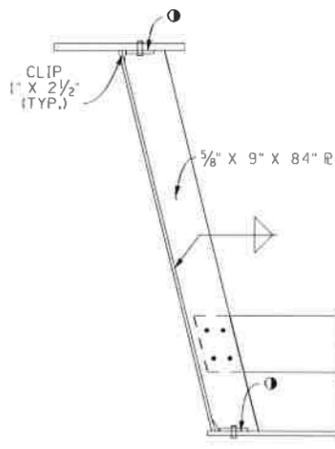


TYPICAL CROSS-FRAME

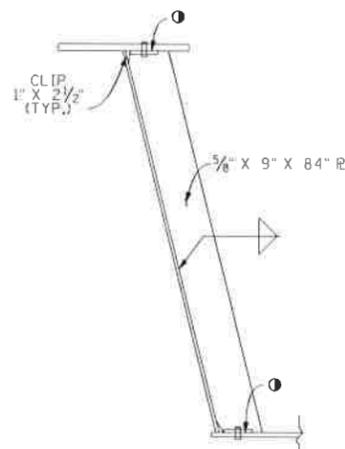
☒ DENOTES: MEASURED PERPENDICULAR TO WEB
 NOTE: ALL DIMENSIONS ARE TYPICAL.
 NOTE: USE 1"Ø H. S. BOLTS ASTM A490 TYPE 3.
 NOTE: ALL STRUCTURAL STEEL IN CROSS-FRAMES TO BE ASTM A709 GRADE 50W.



AT CROSS-FRAME LOCATIONS



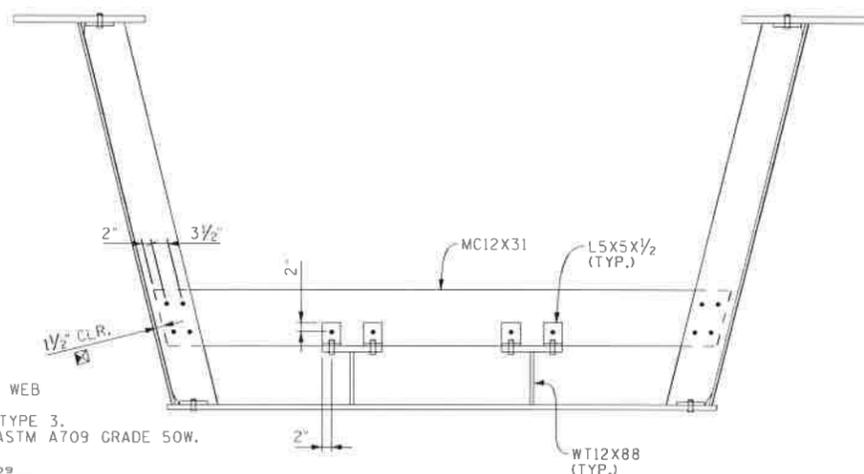
AT BOTTOM TRANSVERSE STIFFENER LOCATIONS



AT INTERMEDIATE STIFFENER ONLY LOCATIONS

NOTE: ALL STRUCTURAL STEEL TO BE ASTM A709 GRADE 50W.
 ○ DENOTES: TIGHT FIT TO FLANGE (TAB CONNECTION DETAILS REQUIRED FOR TENSION AND COMPRESSION FLANGES)

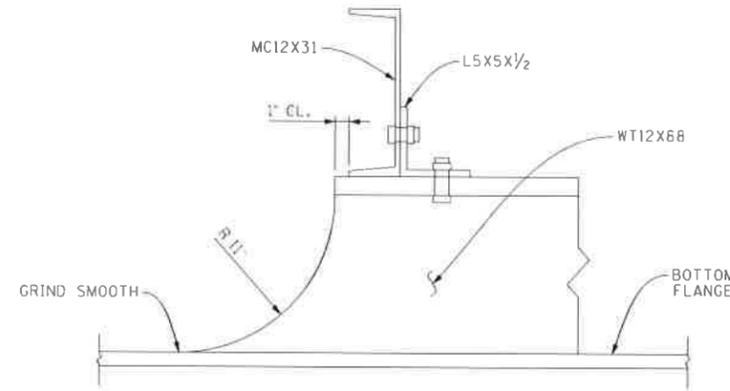
INTERMEDIATE STIFFENERS



TYPICAL BOTTOM TRANSVERSE STIFFENER DETAIL

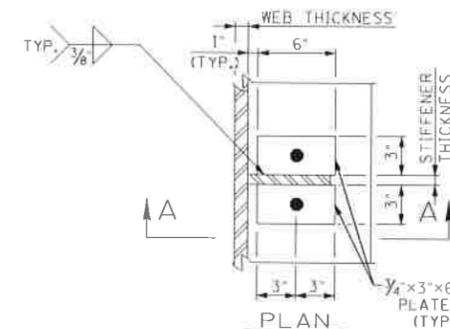
☒ DENOTES: MEASURED PERPENDICULAR TO WEB
 NOTE: ALL DIMENSIONS ARE TYPICAL.
 NOTE: USE 1"Ø H. S. BOLTS ASTM A490 TYPE 3.
 NOTE: ALL STRUCTURAL STEEL TO BE ASTM A709 GRADE 50W.

| | |
|--------------------------------|-------------|
| DESIGNED BY: ADAM PRICE | DATE: 08-09 |
| DRAWN BY: RODNEY CHANDLER | DATE: 03-11 |
| SUPERVISED BY: J.W.F. / C.M.D. | DATE: 03-11 |
| CHECKED BY: ADAM PRICE | DATE: 06-13 |

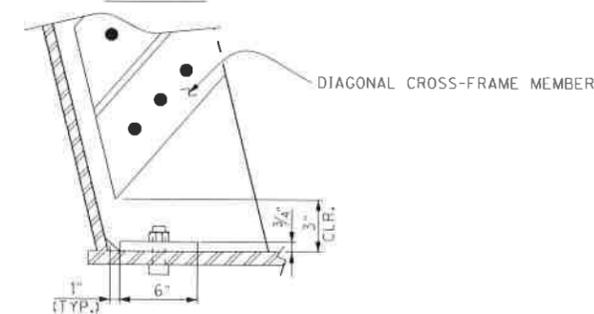


BOTTOM FLANGE LONGITUDINAL STIFFENER TERMINATION DETAIL

NOTE: USE 1"Ø H. S. BOLTS ASTM A490 TYPE 3



PLAN



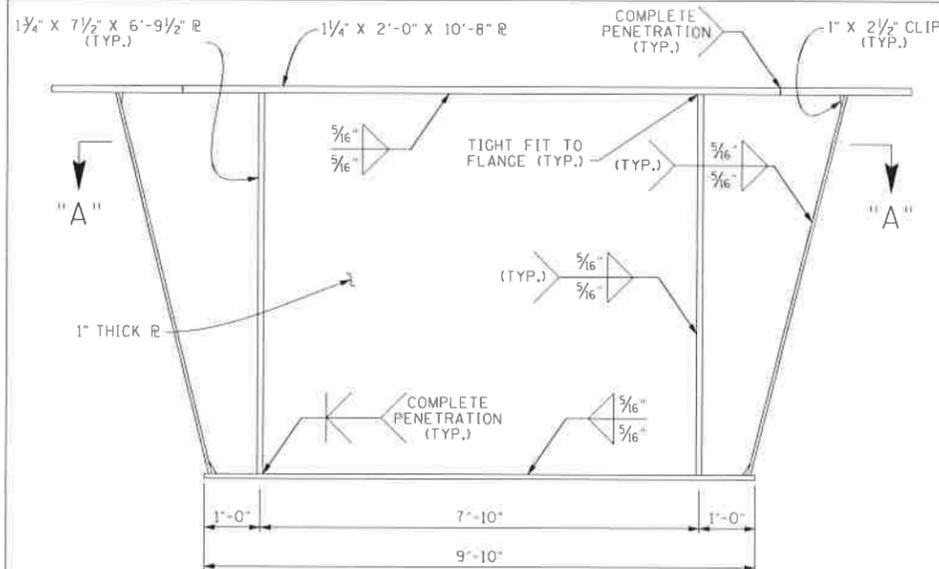
SECTION A-A TAB CONNECTION DETAILS

- NOTE: TAB YIELD STRENGTH SHALL MATCH STIFFENER YIELD STRENGTH. TAB SIZE AND LOCATION SHALL BE AS SHOWN REGARDLESS OF STIFFENER WIDTH.
- NOTE: 1"Ø-A490 TYPE 3 BOLTS TO BE TORQUED TO AASHTO SPECIFICATION FOR FRICTION CONNECTION PRIOR TO TAB TO STIFFENER WELD.
- NOTE: WEB STIFFENER FIT SHALL BE WITHIN AWS D1.1 (CURRENT EDITION) FABRICATION TOLERANCE.
- NOTE: TAB CONNECTION DETAILS ARE REQUIRED AT TOP AND BOTTOM OF ALL STIFFENERS.



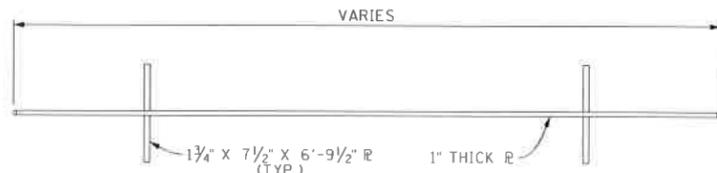
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BRIDGE NO. 1
 SUPERSTRUCTURE DETAILS
 STATE ROUTE 62
 (WESTERN AVENUE)
 OVER CSX RAILROAD, KNOXVILLE
 AND HOLSTON RIVER RAILROAD,
 AND EAST FORK THIRD CREEK
 STATION 119+62.00
 KNOX COUNTY

CORRECT *Adam Price* 2014
 ENGINEER OF STRUCTURES

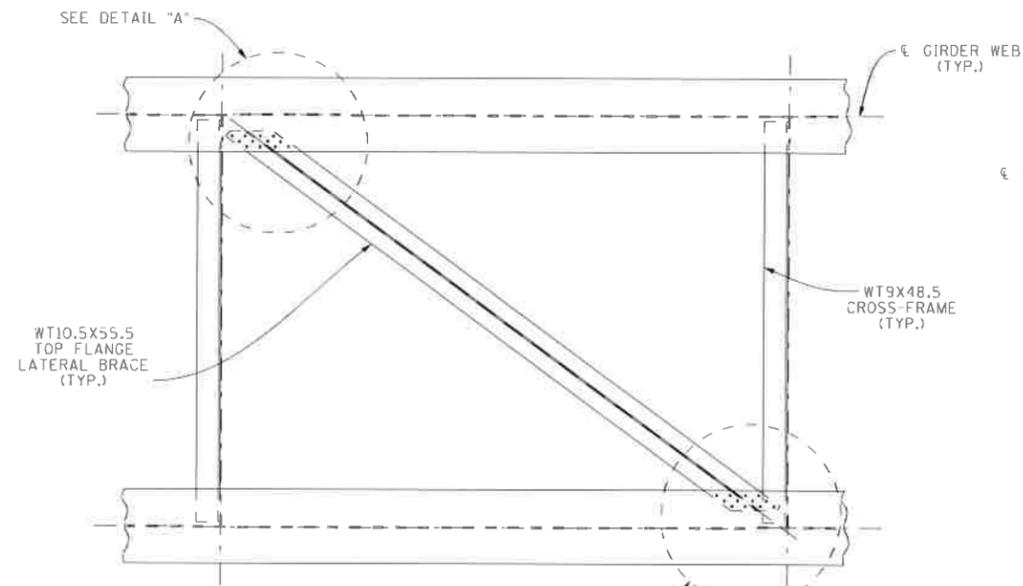


END DIAPHRAGM AT ABUTMENTS

NOTE: ALL STRUCTURAL STEEL TO BE ASTM A709 GRADE 50W.

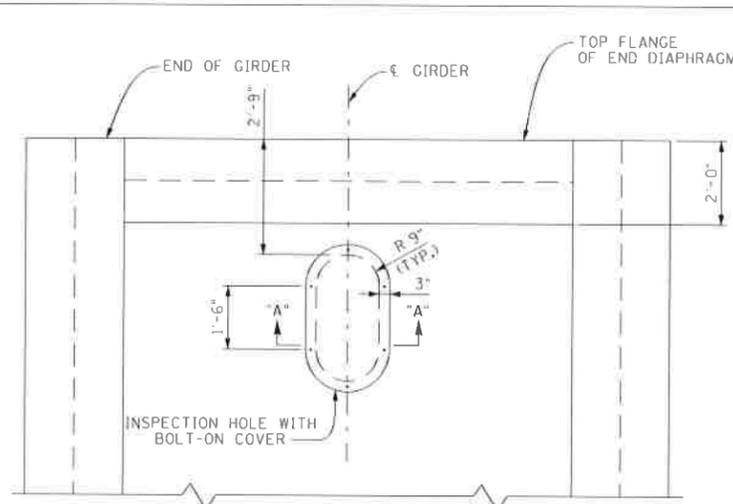


SECTION "A"-"A"



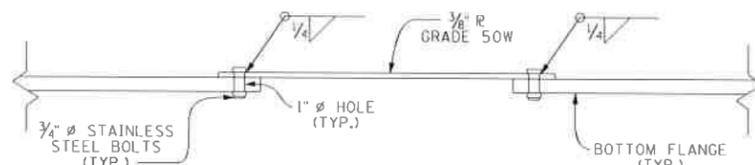
LATERAL BRACING DETAIL

NOTE: ALL LATERAL BRACING BOLTS TO BE 1" H.S. BOLTS A325 TYPE 3.

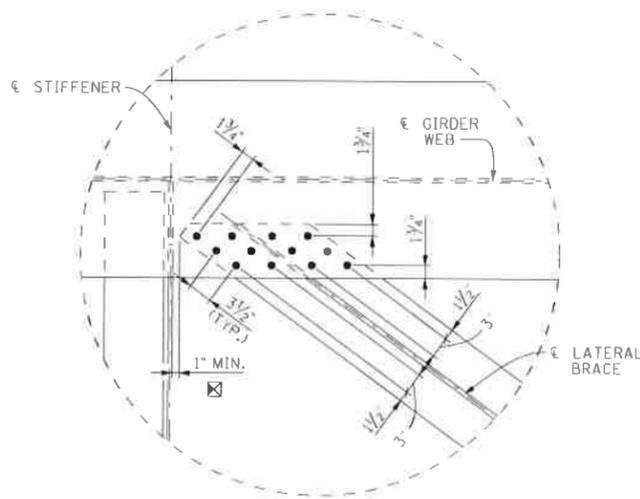


PLAN OF INSPECTION HOLE DETAIL

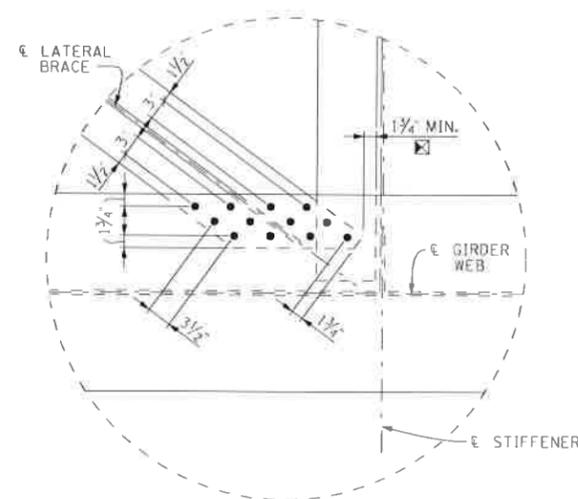
TYPICAL AT ABUTMENT NOS. 1 & 2



SECTION "A"-"A"



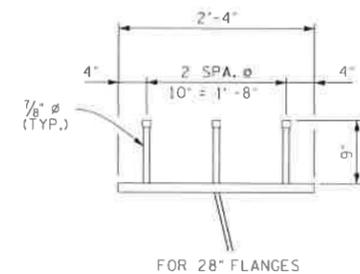
DETAIL "A"



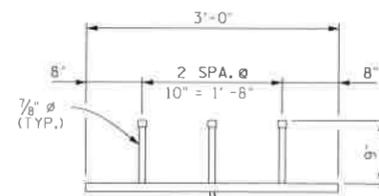
DETAIL "B"

☒ DENOTES: CLEAR DISTANCE SHALL BE VARIED AS NECESSARY SO THAT THE CENTERLINE OF THE LATERAL BRACE INTERSECTS THE CENTERLINE OF THE TOP OF THE GIRDER WEB AT THE CENTERLINE OF THE STIFFENER.

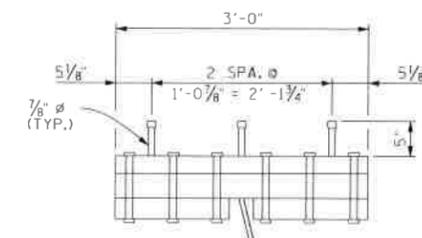
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| CONST. NO. 47023-XXXX-14 | | | |
| PROJECT NO. STP-62(25) | YEAR 2014 | SHEET NO. | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
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FOR 28" FLANGES



FOR 36" FLANGES



FOR 36" SPLICE PLATES AT BENTS

SHEAR CONNECTOR DETAILS

NOTE: SHEAR CONNECTOR MATERIAL TO BE ASTM A108.

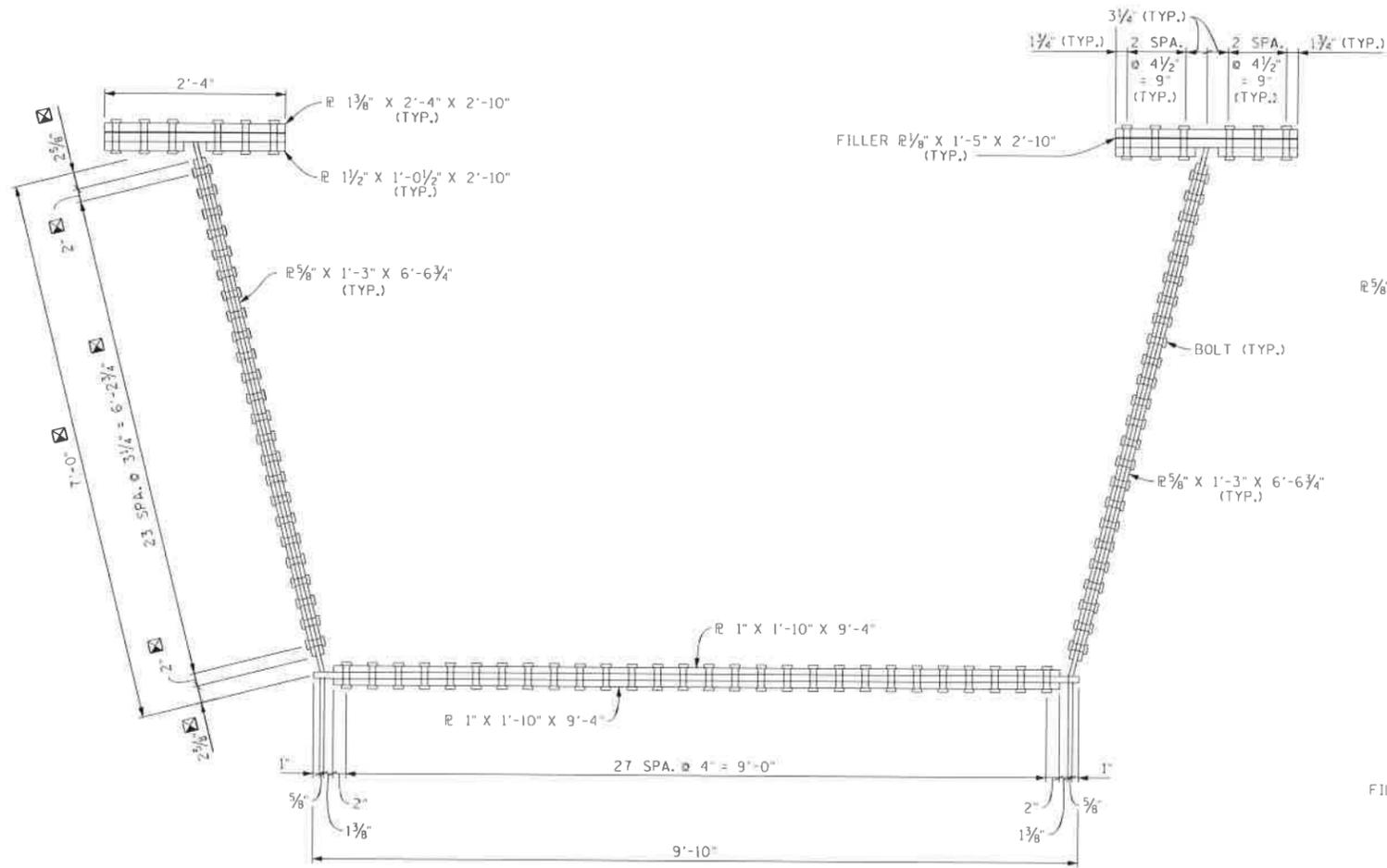
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BRIDGE NO. 1
 SUPERSTRUCTURE DETAILS
 STATE ROUTE 62
 (WESTERN AVENUE)
 OVER CSX RAILROAD, KNOXVILLE
 AND HOLSTON RIVER RAILROAD,
 AND EAST FORK THIRD CREEK
 STATION 119+62.00
 KNOX COUNTY



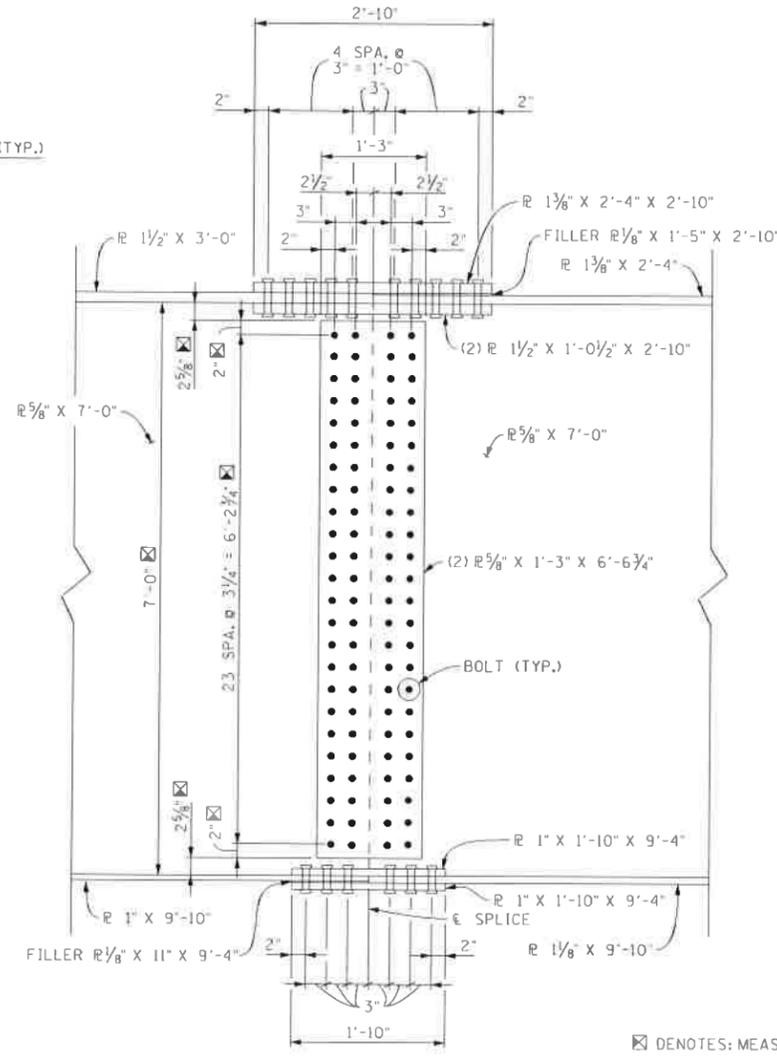
CORRECT *Carolina M. Dietrich* 2014
 ENGINEER OF STRUCTURE

DESIGNED BY ADAM PRICE DATE 08-09
 DRAWN BY RODNEY CHANDLER DATE 03-11
 SUPERVISED BY J.W.F. C.M.D. DATE 03-11
 CHECKED BY ADAM PRICE DATE 06-13

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|--------------------------|------|-----------|-------------------|
| CONST. NO. 47023-XXXX-14 | | | |
| PROJECT NO. | YEAR | SHEET NO. | |
| STP-62(25) | 2014 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
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CROSS-SECTION
 (FIELD SPLICE NO'S. 3 & 4)
 NOTE: ALL SPLICE PLATES TO BE ASTM A709 GRADE 50W STEEL.
 ALL SPLICE BOLTS TO BE 1" H.S. BOLTS A325 TYPE 3.



ELEVATION
 (FIELD SPLICE NO'S. 3 & 4)

☒ DENOTES: MEASURED ALONG WEB SLOPE.

DESIGNED BY ADAM PRICE DATE 08-09
 DRAWN BY RODNEY CHANDLER DATE 03-11
 SUPERVISED BY J.W.F. / C.M.D. DATE 03-11
 CHECKED BY ADAM PRICE DATE 06-13

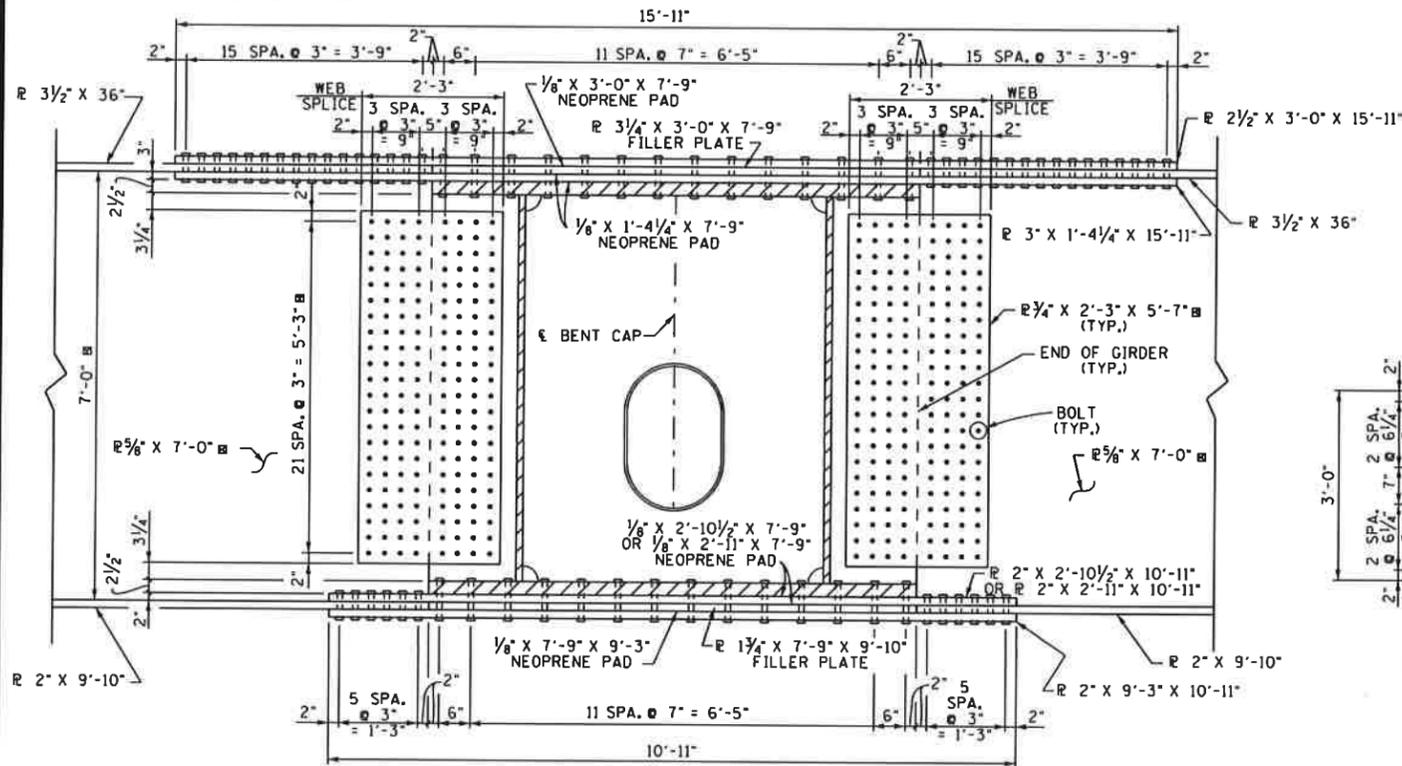


STATE OF TENNESSEE
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 BRIDGE NO. 1
 SUPERSTRUCTURE DETAILS
 STATE ROUTE 62
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 KNOX COUNTY

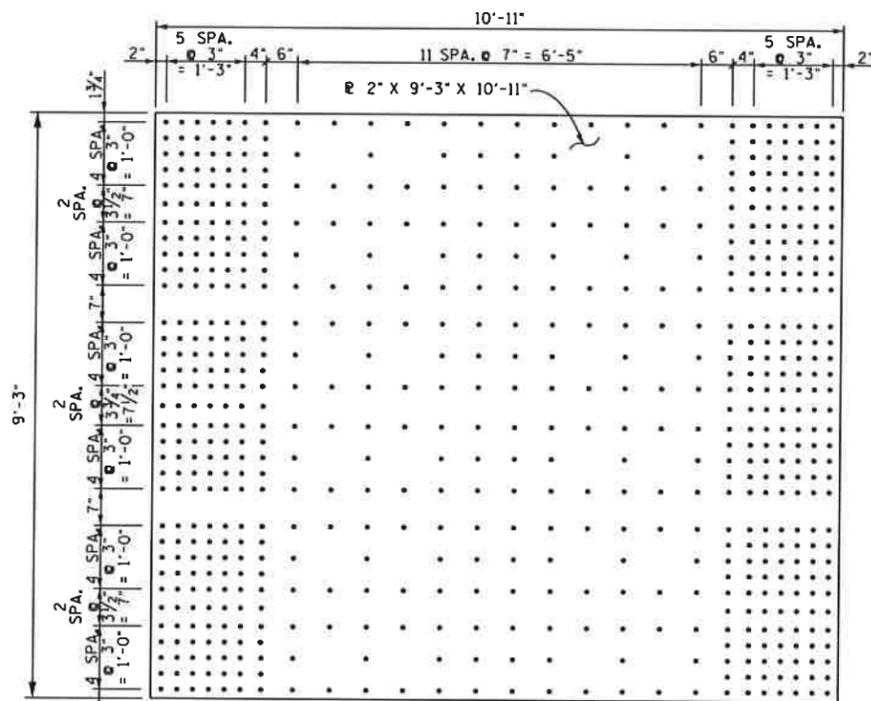
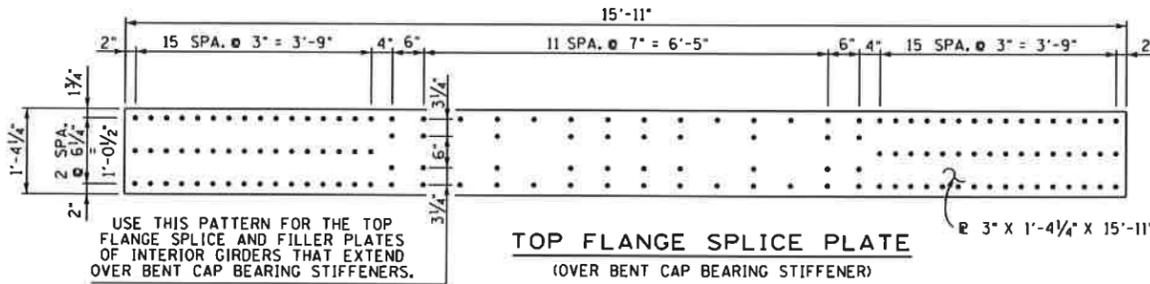
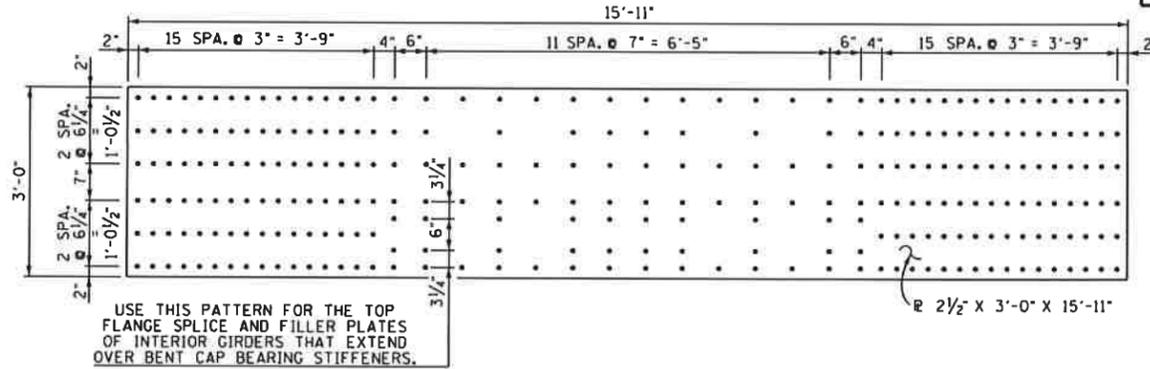
CORRECT *Wayne J. Spivey* 2014

■ DENOTES: MEASURED ALONG WEB SLOPE

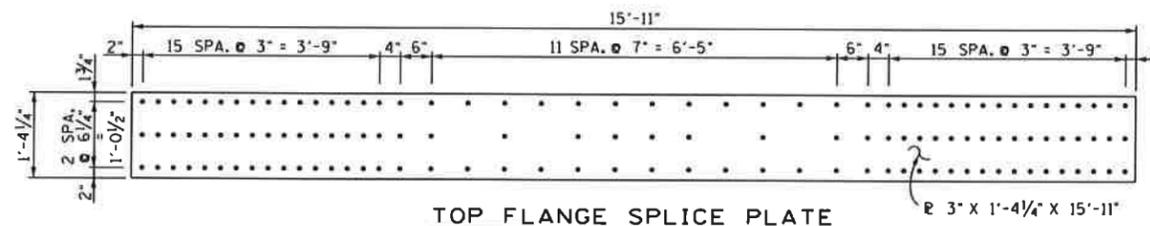
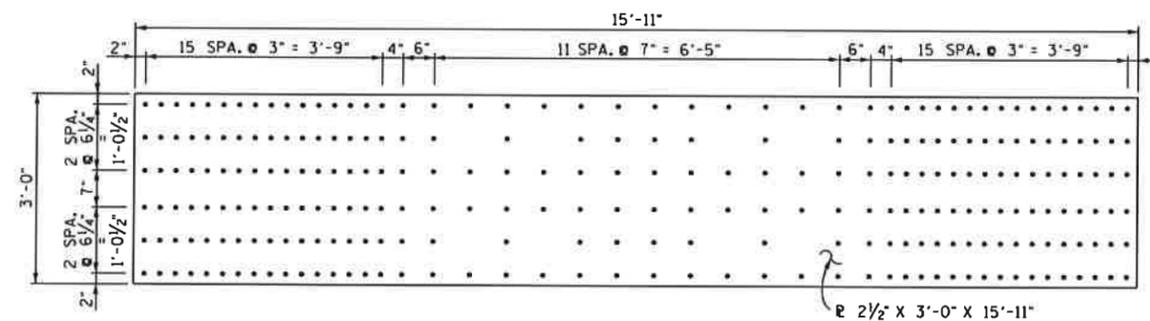
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|--------------------------|------|-----------|-------------------|
| CONST. NO. 47023-2261-14 | | | |
| PROJECT NO. | YEAR | SHEET NO. | |
| STP-62(25) | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
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ELEVATION OF FIELD SPLICE NO. 2 @ 5



BOTTOM FLANGE SPLICE PLATE
(BOLT PATTERN TYPICAL AT ALL BENTS)



TOP FLANGE SPLICE PLATE

DESIGNED BY ADAM PRICE DATE 08-09
 DRAWN BY RANDY KIRK, S.W.K. DATE 02-11
 SUPERVISED BY S.M.D., J.W.F. DATE 02-11
 CHECKED BY ADAM PRICE DATE 08-13

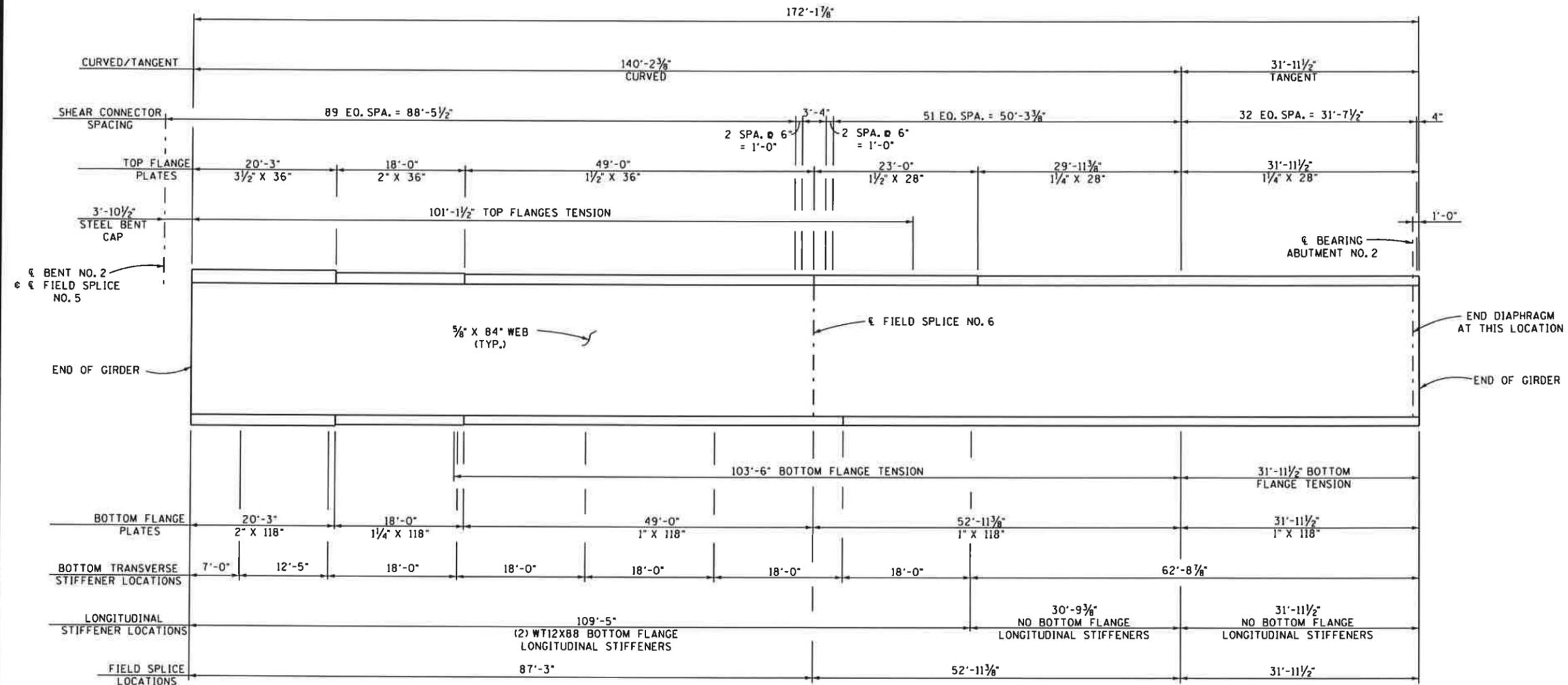


STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BRIDGE NO. 1
 SUPERSTRUCTURE DETAILS
 STATE ROUTE 62 (WESTERN AVENUE)
 OVER
 CSX RAILROAD,
 KNOXVILLE AND HOLSTON
 RIVER RAILROAD,
 AND EAST FORK THIRD CREEK
 STATION 119+62.00
 KNOX COUNTY
 2016

CORRECT

Adam Price
 ENGINEER OF STRUCTURE

| | | | |
|--------------------------|------|-----------|-------------------|
| CONST. NO. 47023-2261-14 | | | |
| PROJECT NO. | YEAR | SHEET NO. | |
| STP-62(25) | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
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GIRDER NO. 9 ELEVATION

| SPAN POINT | 3.0 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 | 3.7 | 3.8 | 3.9 | 4.0 |
|------------------|-------|-------|--------|-------|---------|---------|------|---------|----------|---------|-----|
| DEAD LOAD GIRDER | 1/8" | 0" | 0" | 1/8" | 1/4" | 3/8" | 1/2" | 1/2" | 3/8" | 3/16" | 0" |
| TOTAL DEAD LOAD | 3/16" | -1/4" | -3/16" | 3/16" | 1 1/16" | 1 5/16" | 2" | 2 1/16" | 1 11/16" | 1 5/16" | 0" |

DEAD LOAD CORRECTION CURVE

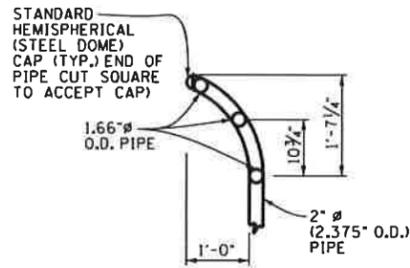


STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BRIDGE NO. 1
 GIRDER NO. 9 DETAILS
 SPAN NO. 3
 STATE ROUTE 62
 (WESTERN AVENUE)
 OVER
 CSX RAILROAD, KNOXVILLE
 AND HOLSTON RIVER RAILROAD,
 AND EAST FORK THIRD CREEK
 STATION 119+62.00
 KNOX COUNTY
 2016

DESIGNED BY ADAM PRICE DATE 08-09
 DRAWN BY G. W. KORNIKORSKI DATE 04-11
 SUPERVISED BY J. W. F. Z. G. M. D. DATE 04-11
 CHECKED BY ADAM PRICE DATE 08-13

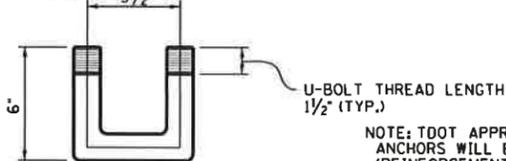
CORRECT *Dieters*
 ENGINEER OF STRUCTURES

| | | | |
|--------------------------|------|-----------|-------------------|
| CONST. NO. 47023-2261-14 | | | |
| PROJECT NO. | YEAR | SHEET NO. | |
| STP-62(25) | 2016 | | |
| REVISIONS | | | |
| NO. | DATE | BY | BRIEF DESCRIPTION |
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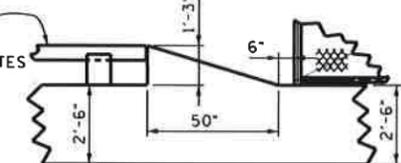
ANTI-CLIMB DETAIL

NOTE: ALL POSTS SHALL BE 2.0" (2.375" O.D.) GALVANIZED STANDARD STEEL PIPE (PVC BLACK COATED) MEETING THE REQUIREMENTS OF ASTM SPEC. F1083.

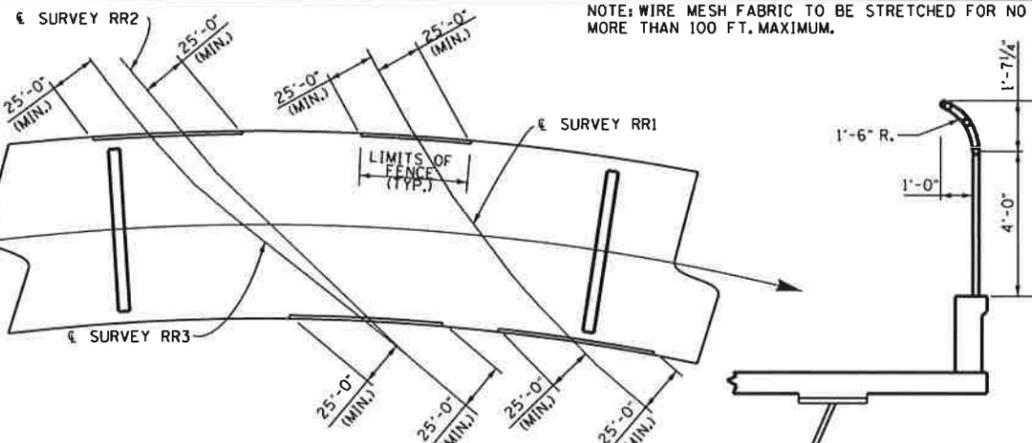


1/2" SQUARE BOND U-BOLT (A307) ANCHOR DETAIL

NOTE: SEE STD. DWC, NO. STD-11-1 FOR ADDITIONAL DETAILS AND NOTES

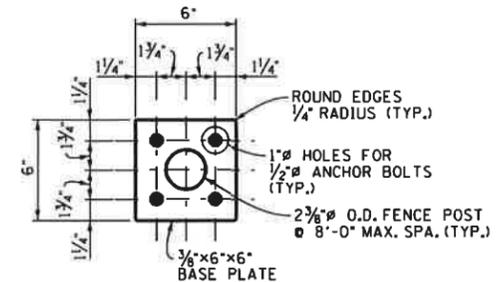


RAIL TERMINATOR DETAIL (STD-11-1 BRIDGE RAIL)



PLAN VIEW FENCE LOCATION

NOTE: WIRE MESH FABRIC TO BE STRETCHED FOR NO MORE THAN 100 FT. MAXIMUM.



PLAN OF BASE PLATE

NOTE: THE CONTRACTOR SHALL SUBMIT SHOP PLANS FOR THE FENCE AND ITS INSTALLATION PROCEDURE TO THE ENGINEER OF STRUCTURES FOR APPROVAL. FENCING IS TO BE BLACK PVC COATED GALVANIZED 1" DIAMOND MESH, CHAIN LINK FABRIC, THE FENCING SHALL BE NO. 9 GAGE, COMMERCIAL QUALITY, MEDIUM HIGH CARBON, HOT DIPPED GALVANIZED STEEL WIRE MEETING THE REQUIREMENTS OF ASTM F668-11. POSTS, RAILS, AND FRAMEWORK SHALL BE BLACK PVC COATED GALVANIZED STRUCTURAL STEEL OR SCHEDULE 40 PIPE, ALL MISCELLANEOUS CONNECTIONS, (BOLTS, WASHERS, AND NUTS, ETC.) FOR POSTS, RAILS, AND FRAMEWORK SHALL BE BLACK VINYL COATED GALVANIZED (OR PAINTED BY APPROVED SYSTEM). SEE ELEVATION OF BASE PLATE ON THIS SHEET.

POSTS AND RAILS SHALL BE PERMANENTLY POSITIONED BEFORE FABRIC IS PLACED. ALL LONGITUDINAL RAILS SHALL BE PARALLEL TO THE PARAPET. THE POST SHALL BE PERPENDICULAR TO THE TOP OF THE PARAPET.

SPECIFICATIONS: TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (MARCH 1, 2006).

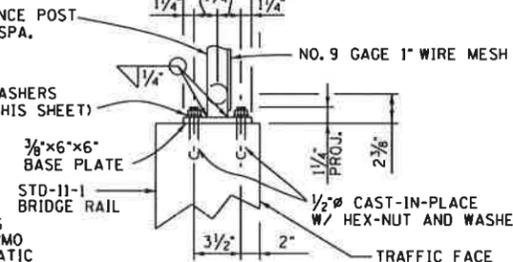
NOTE: TDOT APPROVED DRILLED AND EPOXY GROUTED ANCHORS WILL BE AN ACCEPTABLE ALTERNATE CONNECTION (REINFORCEMENT IN BRIDGE PARAPET SHALL BE PLACED TO PREVENT INTERFERENCE AND/OR DAMAGE TO THE REINFORCING STEEL DURING THE INSTALLATION OF THE ANCHORS). MECHANICAL ANCHORS ARE UNACCEPTABLE AND WILL NOT BE ALLOWED.

NOTE: THE CONTRACTOR HAS THE OPTION TO PAINT THE PROTECTIVE FENCE IN LIEU OF PVC COATING. THE PAINT SYSTEM SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL.

PRE-COATED LONGITUDINAL RAILS, IF CUT, SHALL HAVE THE CUT END COATED WITH A TDOT APPROVED PVC TOUCH UP MATERIAL SUPPLIED BY THE MANUFACTURER PRIOR TO THE ERECTION.

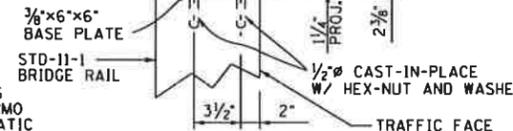
ALL POST, BRACES, FITTINGS, AND HARDWARE SHALL BE PVC COATED, EXCEPT THAT NUTS, BOLTS, AND WASHERS SHALL ALSO BE PVC COATED OR PAINTED BY AN APPROVED SYSTEM AND TOUCHED UP AFTER INSTALLATION.

ALTERNATE PAINT SYSTEM REQUIREMENTS: GALVANIZED COMPONENTS SHALL BE SUBJECT TO A PRETREATMENT WASH UTILIZING ZINC PHOSPHATE. APPLY TWO COATS OF PAINT CONSISTING OF AN ELECTROSTATIC SPRAY APPLICATION OF A 2 MIL MINIMUM THICKNESS BASE COAT CONSISTING OF ZINC - RICH THERMO SETTING EPOXY FOLLOWED BY AN ELECTROSTATIC SPRAY APPLICATION OF A THERMO SETTING POLYESTER POWDER FINISH COAT OF 2 MIL MINIMUM THICKNESS.



2 3/8" O.D. FENCE POST 8'-0" MAX. SPA.

PVC COATED GALVANIZED WASHERS (SEE DETAIL THIS SHEET)



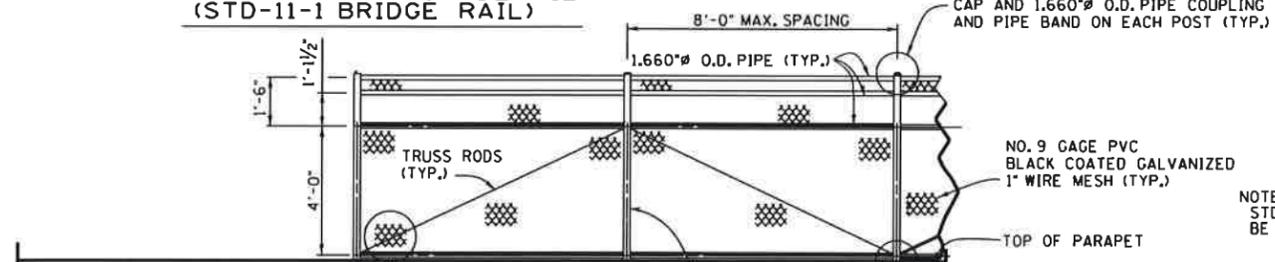
WASHER DETAIL

NOTE: THE PRICE BID FOR ITEM NO. 707-07.01 SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY FOR THE COMPLETE INSTALLATION OF THE PROTECTIVE FENCE AND SHALL INCLUDE ALL FITTINGS, BASE PLATES AND U-BOLTS, HEX NUTS AND WASHERS, ANTI-CLIMB SHIELDS, CHAIN LINK FENCE, POSTS, TRUSS RODS, COUPLINGS, AND ANY OTHER MATERIAL REQUIRED FOR INSTALLATION.

NOTE: DETAILED SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PER SECTION 105.02 OF THE TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (MARCH 1, 2006).

ESTIMATED QUANTITIES

| |
|---------------------------------|
| ITEM NO. 707-07.01 |
| CHAIN LINK FENCE (BRIDGES) S.F. |
| 194 |



NOTE: WHEN THE FENCE IS PLACED ON A STD-11-1 RAIL, THE ALUMINUM RAIL SHALL BE OMITTED IN THE AREA OF THE FENCE.

SQUARE HOLE IN 1/2 x 1/8 PVC BLACK COATED GALVANIZED STEEL BAR TO PROVIDE SNUG FIT FOR SQUARE PORTION OF CARRIAGE BOLT

1/4 GALVANIZED (ASTM A307) CARRIAGE BOLT (TYP.)

1-3/4" MAX. 1.660" O.D. PIPE (TOP OR BOTTOM RAIL)

1/2 x 1/8" BLACK VINYL COATED STEEL BAR

1/4 GALVANIZED CARRIAGE BOLT

1.660" O.D. PVC BLACK COATED STEEL PIPE

1/2 x 1/8" BLACK PVC COATED GALVANIZED STEEL BAR

DOUBLE NUTS: SNUG FIT WITHOUT DEFORMING 1.660" O.D. PIPE

BLACK PVC 1" COATED GALVANIZED DIAMOND MESH CHAIN LINK FENCE

ELEVATION

END ELEVATION

MESH CONNECTION DETAILS

NOTE: SHOWING ATTACHMENT OF WIRE MESH TO TOP AND BOTTOM 1.660" O.D. BLACK PVC COATED GALVANIZED STEEL PIPE

NOTE: ALL TOP AND BOTTOM HORIZONTAL RAILS SHALL BE 1.25" (1.660" O.D.) GALVANIZED STANDARD STEEL PIPE (PVC BLACK COATED) MEETING THE REQUIREMENTS OF ASTM SPEC. F1083.

NOTE: CONTRACTOR'S SHOP DRAWINGS SHALL DETAIL HOW THE HORIZONTAL AND VERTICAL DIMENSIONS OF THE FENCE WILL ACCOMMODATE ROADWAY VERTICAL CURVE WHEN APPLICABLE.

THE CHAIN LINK FENCE SHALL BE TRUE IN LINE, TAUT, CLOSE FIT TO TOP OF PARAPET, WITH 1/2" MIN. TO 1" MAX. GAP AND SHALL COMPLY WITH THE BEST PRACTICE FOR FENCE CONSTRUCTION OF THIS TYPE.

ALL POSTS SHALL BE SET PLUMB, NOT PERPENDICULAR TO THE SLAB.

FOR CONNECTION OF WIRE MESH TO TOP AND BOTTOM 1.660" O.D. PVC BLACK COATED GALVANIZED STEEL PIPES SEE DETAIL ON THIS SHEET

SPAN CROSSING RAILROAD TRACKS

FENCE ELEVATION

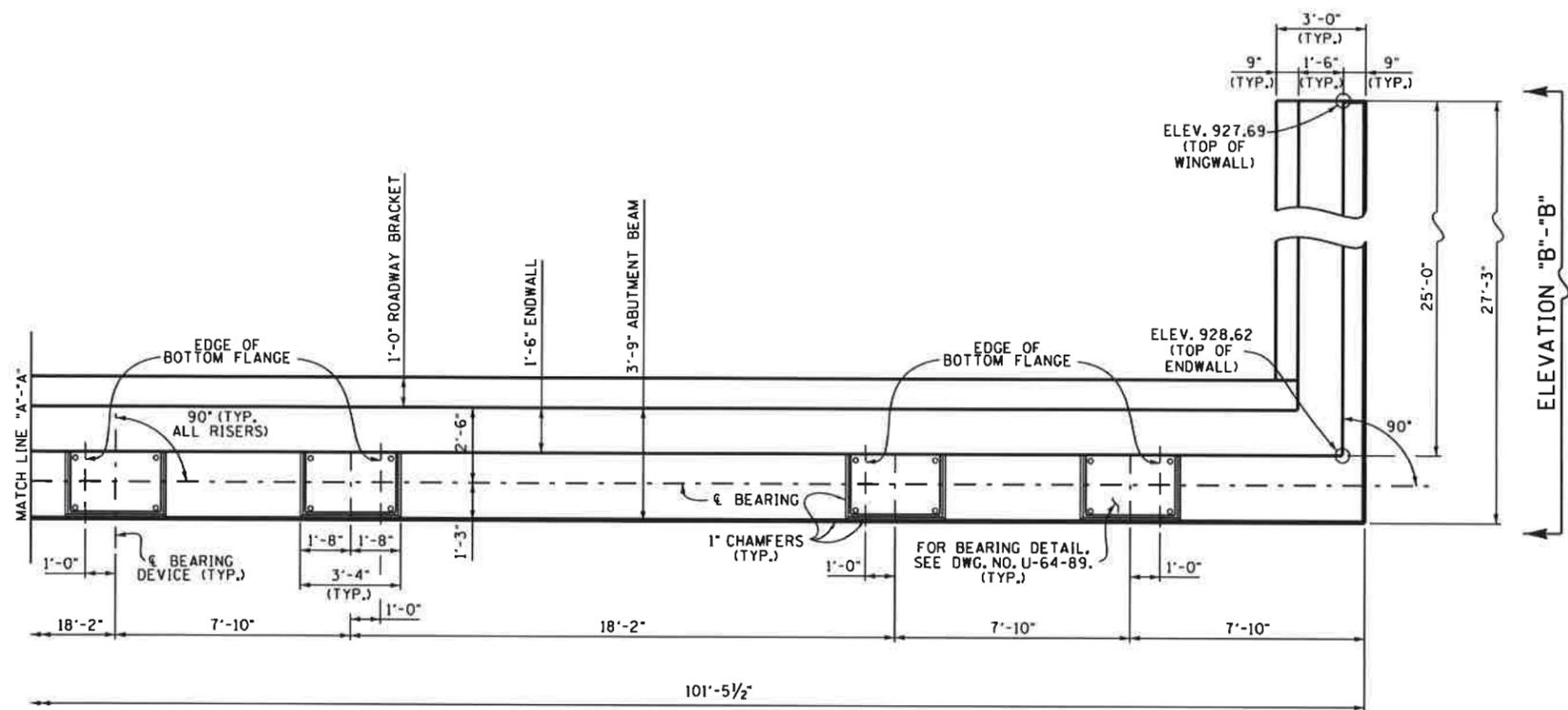
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|---------------|-----------------|------|-------|
| DESIGNED BY | ADAM PRICE | DATE | 08-09 |
| DRAWN BY | G.W. KORNIKOSKI | DATE | 09-13 |
| SUPERVISED BY | C.M.D./J.W.F. | DATE | 09-13 |
| CHECKED BY | ADAM PRICE | DATE | 12-13 |



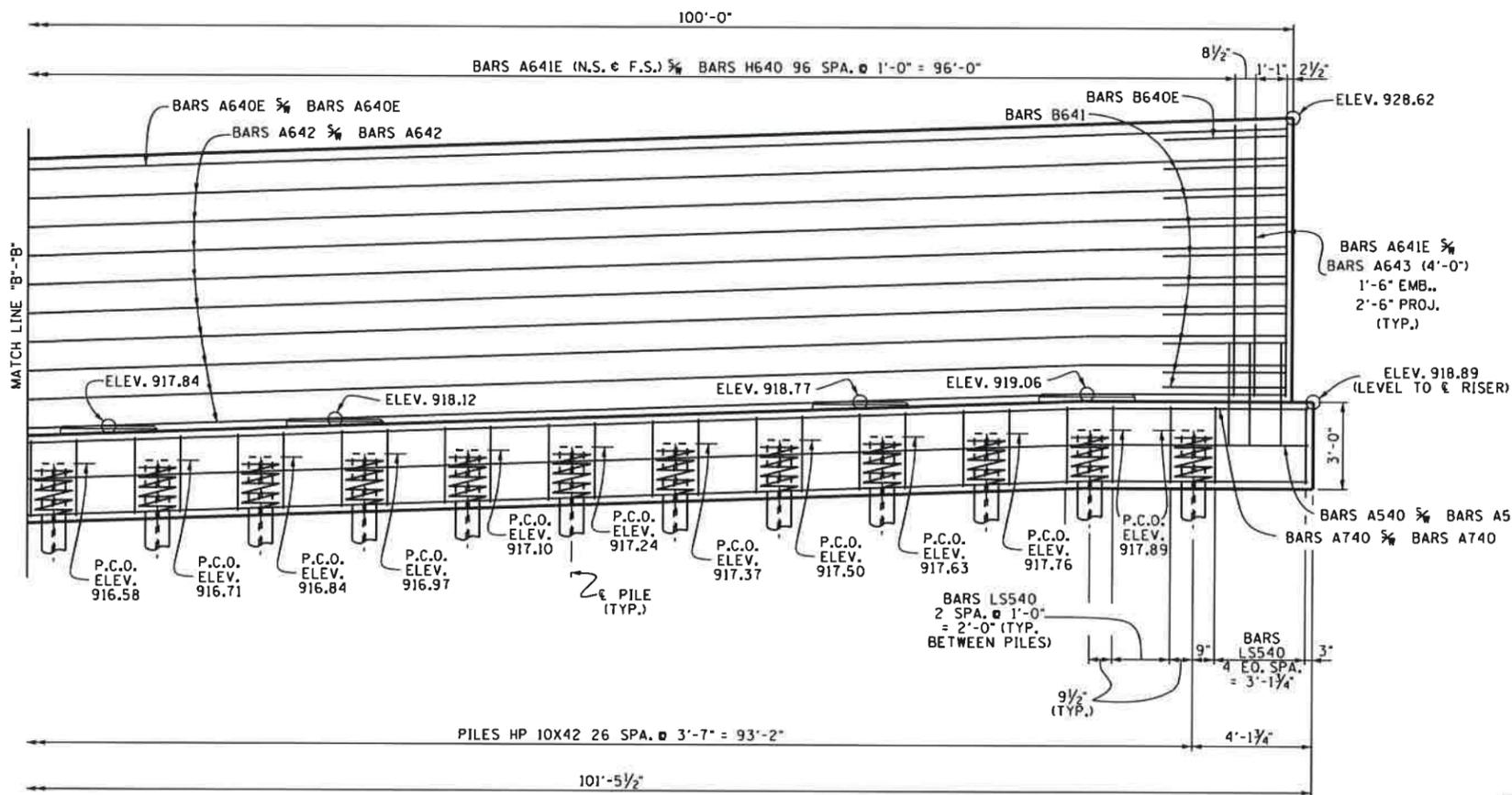
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
PROTECTIVE FENCE DETAILS
STATE ROUTE 62 (WESTERN AVENUE)
OVER
CSX RAILROAD,
KNOXVILLE AND HOLSTON
RIVER RAILROAD,
AND EAST FORK THIRD CREEK
STATION 119+62.00
KNOX COUNTY
2016

CORRECT *Adam Price*
ENGINEER

| CONST. NO. 47023-2261-14 | | | |
|--------------------------|------|-----------|-------------------|
| PROJECT NO. | YEAR | SHEET NO. | |
| STP-62(25) | 2016 | | |
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PLAN



ELEVATION
(LOOKING BACK ON SURVEY)

N.S. DENOTES: NEAR SIDE
F.S. DENOTES: FAR SIDE
P.C.O. DENOTES: PILE CUT-OFF

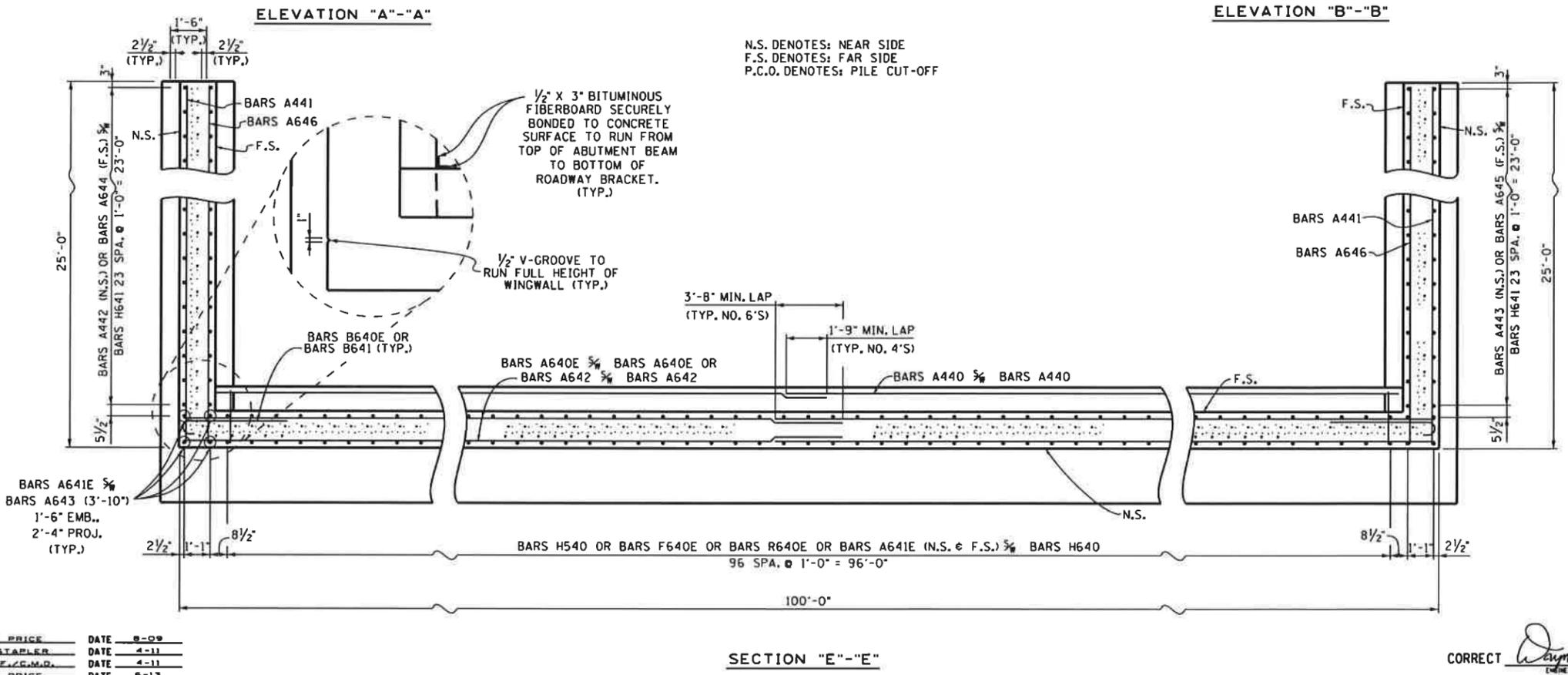
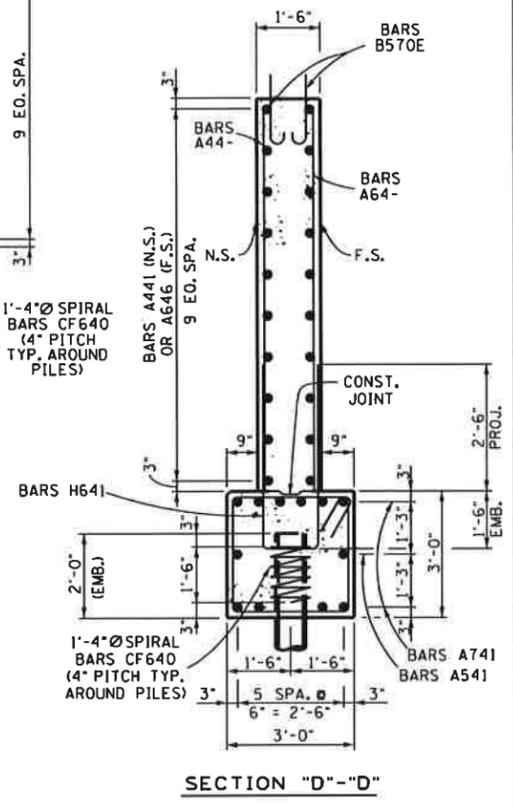
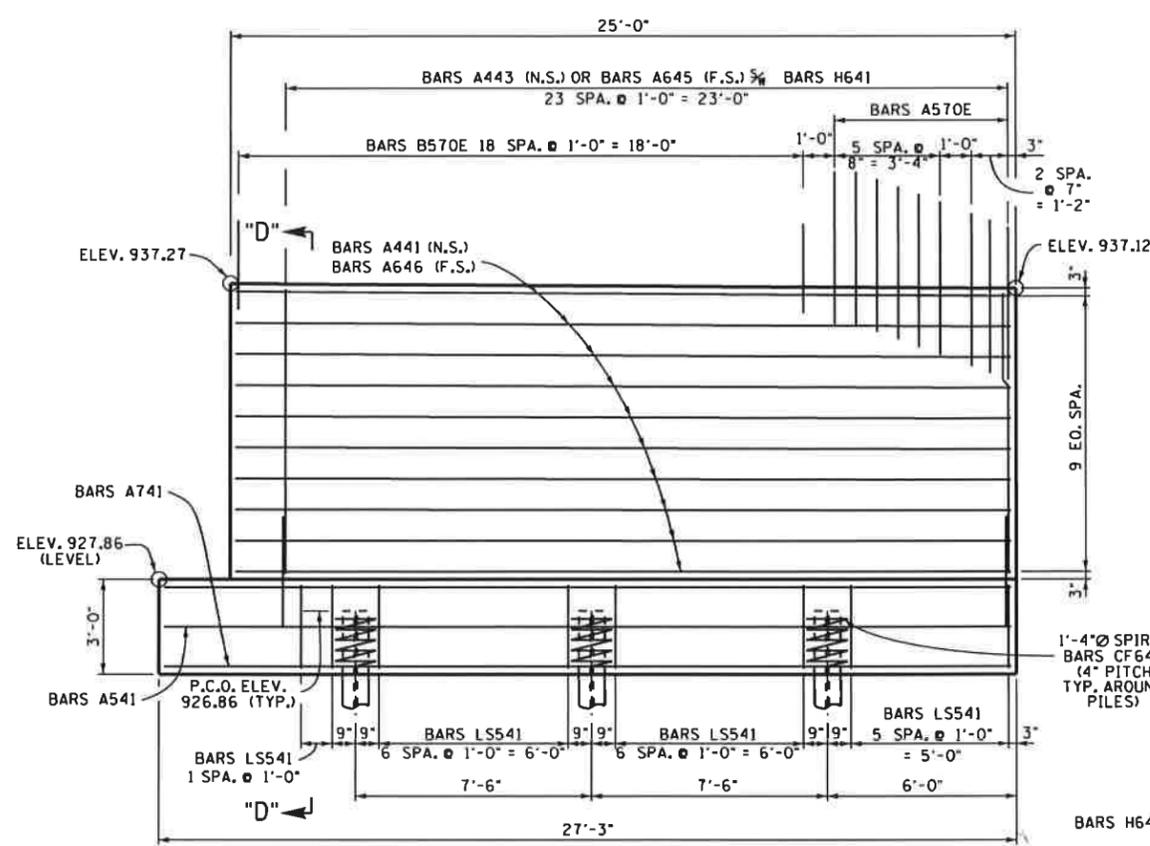
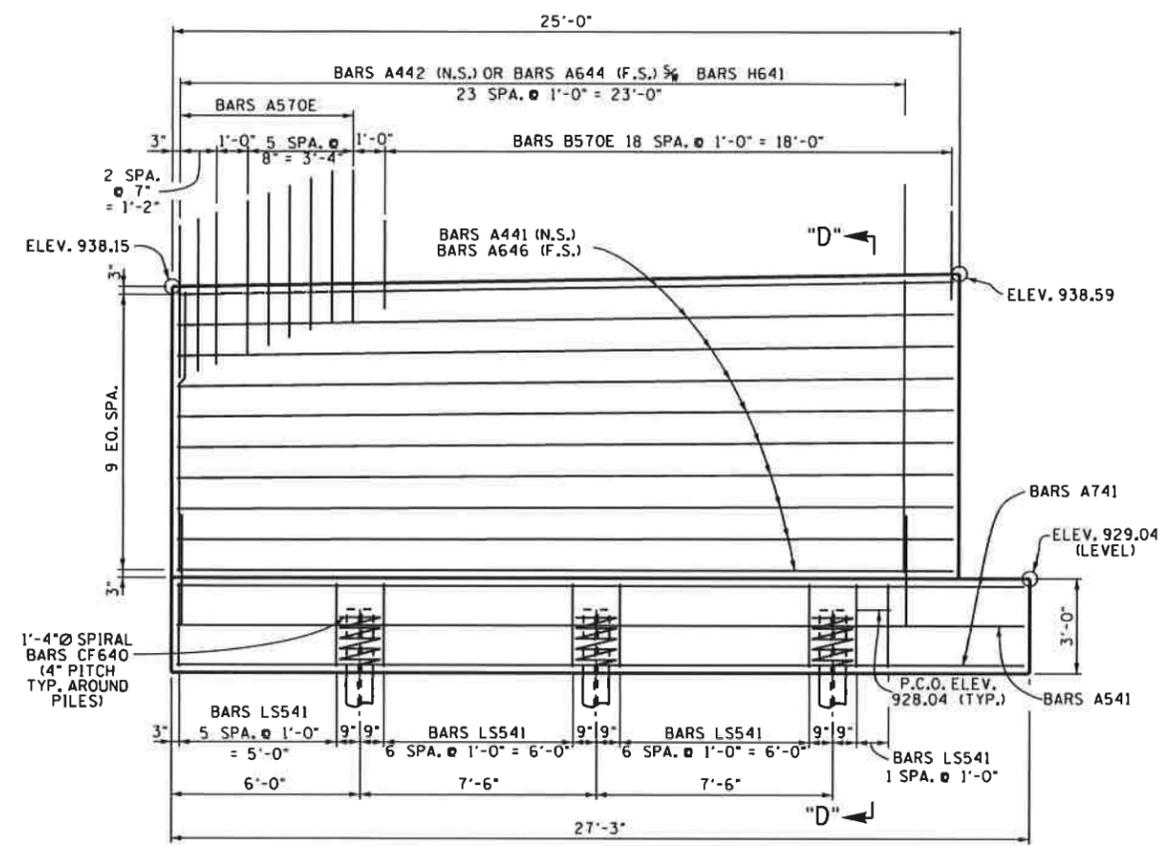
DESIGNED BY: ADAM PRICE DATE: 8-09
DRAWN BY: CHRIS STAPLER DATE: 4-11
SUPERVISED BY: J.W.F./G.M.D. DATE: 4-11
CHECKED BY: ADAM PRICE DATE: 6-13



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
ABUTMENT NO. 1 DETAILS
STATE ROUTE 62
(WESTERN AVENUE)
OVER
CSX RAILROAD,
KNOXVILLE AND HOLSTON
RIVER RAILROAD, AND
EAST FORK THIRD CREEK
STATION 119+62.00
KNOX COUNTY
2016

CORRECT *Dayne J. Spivey*
ENGINEER OF STRUCTURES

| | | | |
|--------------------------|------|-----------|-------------------|
| CONST. NO. 47023-2261-14 | | | |
| PROJECT NO. | YEAR | SHEET NO. | |
| STP-62(25) | 2016 | | |
| REVISIONS | | | |
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N.S. DENOTES: NEAR SIDE
 F.S. DENOTES: FAR SIDE
 P.C.O. DENOTES: PILE CUT-OFF

DESIGNED BY: ADAM PRICE DATE: 8-09
 DRAWN BY: CHRIS STAPLER DATE: 4-11
 SUPERVISED BY: J.W.F./C.M.D. DATE: 4-11
 CHECKED BY: ADAM PRICE DATE: 6-13

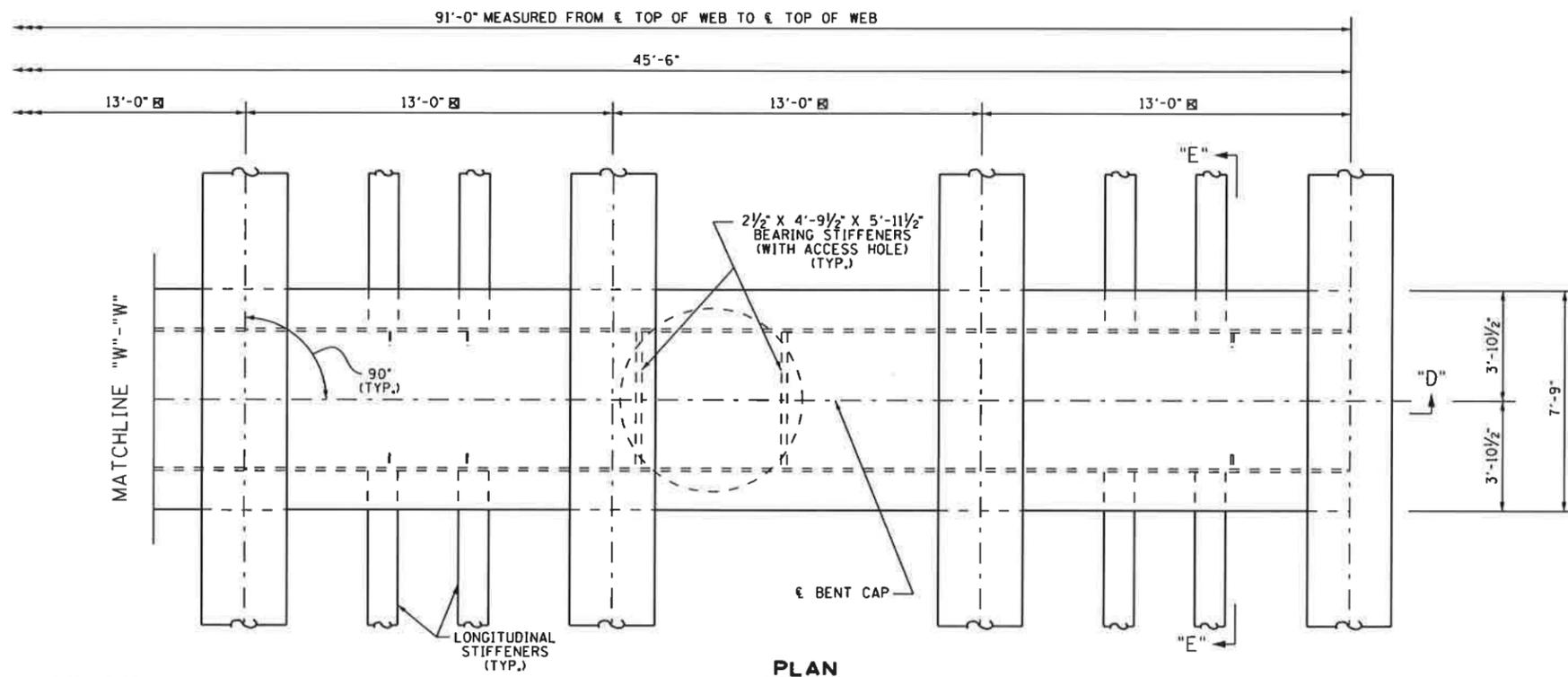
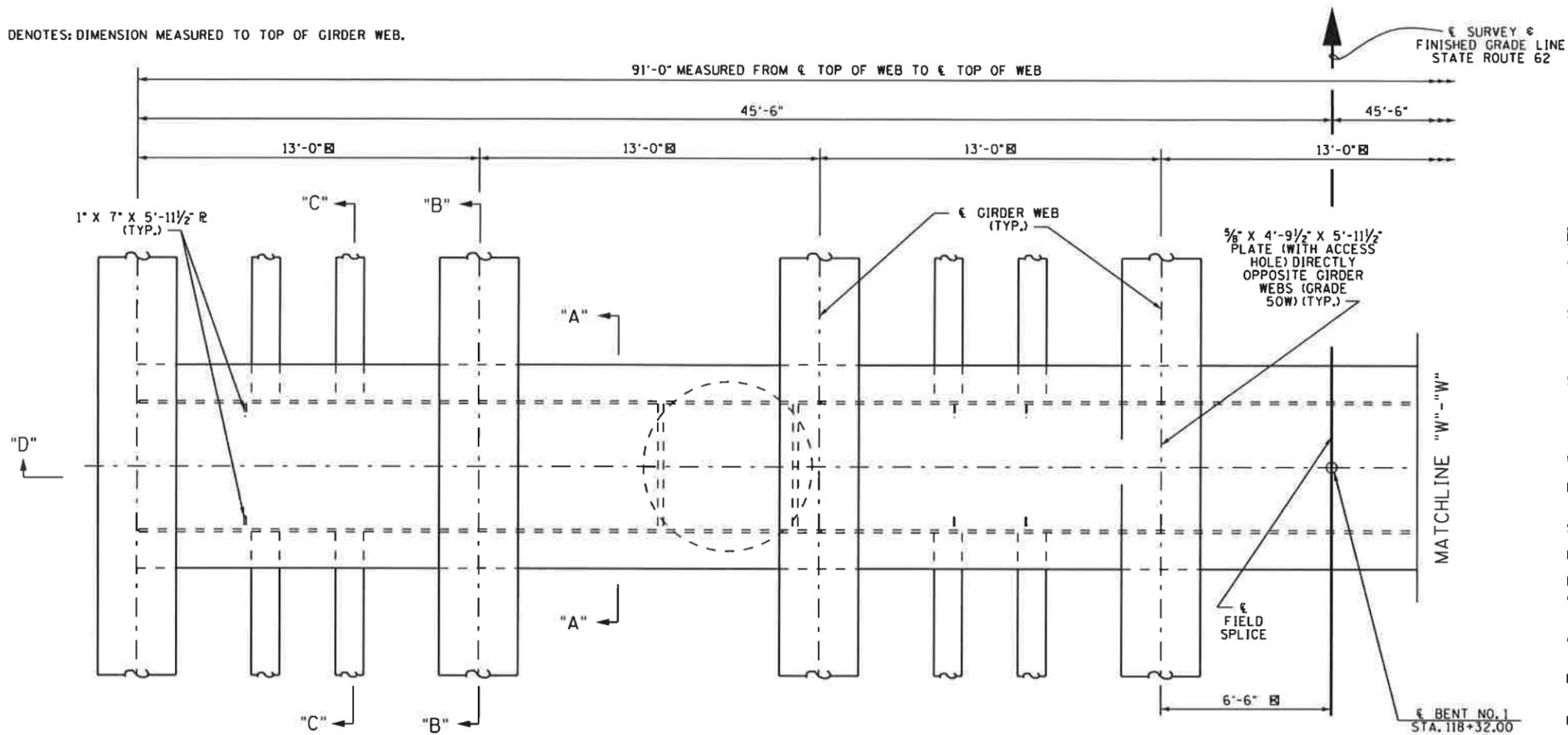
SECTION "E"- "E"

CORRECT *Dayne J. Spivey*
 ENGINEER OF STRUCTURES



STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BRIDGE NO. 1
 ABUTMENT NO. 2 DETAILS
 STATE ROUTE 62
 (WESTERN AVENUE)
 OVER
 CSX RAILROAD,
 KNOXVILLE AND HOLSTON
 RIVER RAILROAD, AND
 EAST FORK THIRD CREEK
 STATION 119+62.00
 KNOX COUNTY
 2016

☒ DENOTES: DIMENSION MEASURED TO TOP OF GIRDER WEB.



PLAN

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| CONST. NO. 47023-2261-14 | | | |
| PROJECT NO. | YEAR | SHEET NO. | |
| STP-62(25) | 2016 | | |
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BENT GENERAL NOTES

APPROVAL OF MATERIALS: NO FABRICATION SHALL BE STARTED UNTIL THE MATERIALS INVOLVED HAVE BEEN APPROVED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION, DIVISION OF MATERIALS AND TESTS.

IDENTITY OF MAIN MATERIALS: SEE SECTION 602 OF THE STANDARD SPECIFICATIONS.

STRUCTURAL STEEL: SHALL CONFORM TO ASTM A709 GRADE HPS50W UNLESS OTHERWISE NOTED. ALL STEEL PLATE FOR BENT CAP EXCEPT MANWAY COVERS SHALL MEET THE SUPPLEMENTAL REQUIREMENTS FOR LONGITUDINAL CHARPY V-NOTCH TESTS SPECIFIED IN THE ASTM SPECIFICATIONS. ZONE 2 OF FRACTURE CRITICAL CRITERIA SHALL APPLY.

STRUCTURAL STEEL DESIGNATED ON THE PLANS AS FRACTURE CRITICAL SHALL MEET THE REQUIREMENTS OF THE AASHTO GUIDE SPECIFICATIONS FOR FRACTURE CRITICAL NON-REDUNDANT STEEL BRIDGE MEMBERS AS REQUIRED FOR ZONE 2. FABRICATION OF FRACTURE CRITICAL BRIDGE MEMBERS SHALL BE ACCOMPLISHED BY FABRICATORS CERTIFIED UNDER THE AISC QUALITY CERTIFICATION PROGRAM, CATEGORY III, MAJOR STEEL BRIDGES. NO OTHER CERTIFICATION PROGRAM WILL BE ACCEPTABLE.

WELDING: ANSI/AASHTO/AWS D1.5 CURRENT EDITION BRIDGE WELDING CODE AND SECTION 602 OF THE STANDARD SPECIFICATIONS.

FIELD CONNECTIONS: SHALL BE 1" HIGH TENSILE STRENGTH BOLTS ASTM A325 TYPE 3 UNLESS OTHERWISE SHOWN. SEE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS ART. 11.3.2 AND SECTION 602 OF THE STANDARD SPECIFICATIONS.

SHOP ASSEMBLY: PROGRESSIVE SHOP ASSEMBLY WILL BE ALLOWED. SEE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS ART. 11.5.3.1

NOTE: COLUMN CONCRETE SHALL BE PLACED IN ACCORDANCE WITH SECTION 604 OF THE STANDARD SPECIFICATIONS USING A TREMIE PIPE.

NOTE: 2" WEEP HOLES WITH SCREEN WIRE COVER REQUIRED AT LOW POINT OF EACH CELL.

ADDITIONAL SHOP SPlice NOTE: SHOP SPLICES NECESSARY DUE TO LENGTHS OR SIZE OF MATERIAL INVOLVED MAY BE ADDED BY THE FABRICATOR SUBJECT TO APPROVAL BY THE ENGINEER AND SHALL BE AT NO ADDITIONAL COST TO THE PROJECT.

ADDITIONAL FIELD SPlice NOTE: FIELD SPLICES NECESSARY DUE TO LENGTHS INVOLVED MAY BE ADDED BY THE FABRICATOR SUBJECT TO APPROVAL BY THE ENGINEER AND SHALL BE AT NO ADDITIONAL COST TO THE PROJECT.

FIELD SPlice NOTE: FIELD SPLICES SHOWN ON THE PLANS MAY BE DELETED BY THE CONTRACTOR. ADJUSTMENT TO THE LUMP SUM PRICE FOR STEEL STRUCTURES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.

NOTE: EXTERIOR OF STEEL COLUMN CASINGS SHALL BE PAINTED WITH INORGANIC ZINC WITH URETHANE FINISH - BROWN TOP COAT CONFORMING TO FEDERAL STANDARD 595C (20059).

NOTE: ALL LIFTING LUGS ATTACHED TO THE EXTERIOR OF THE STEEL COLUMN CASINGS SHALL BE REMOVED AFTER ERECTION. LIFTING LUG WELDS SHALL BE GROUND SMOOTH AND REPAINTED PER PLANS REQUIREMENTS TO MATCH THE REST OF THE STEEL COLUMN CASING.

NOTE: SEE DRAWING NO. U-64-97 THRU U-64-104 FOR ADDITIONAL DETAILS.

| ESTIMATED QUANTITIES | |
|-----------------------------------|---------------------------------|
| CLASS "A" CONCRETE (BRIDGES) C.Y. | REINFORCING STEEL (BRIDGES) LB. |
| 324 | 81,731 |

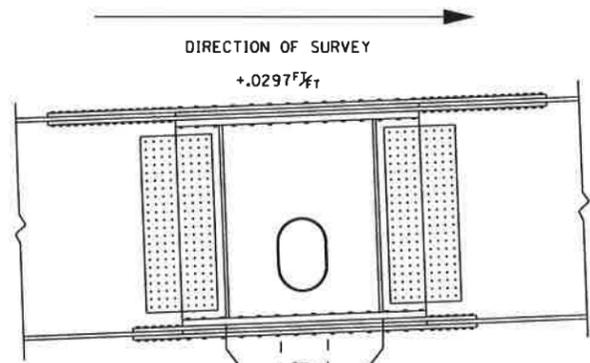
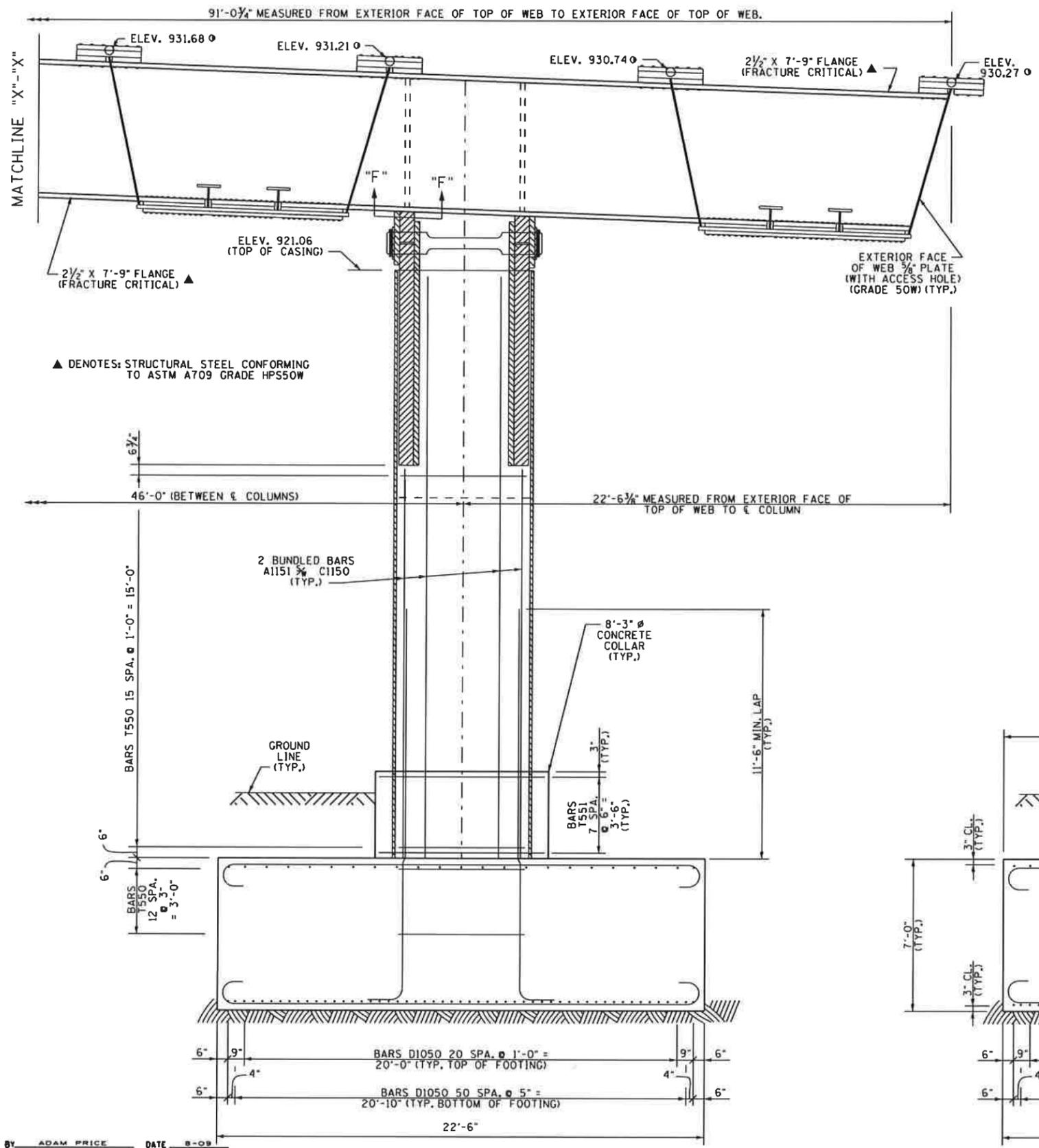


STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BRIDGE NO. 1
 BENT NO. 1
 STATE ROUTE 62
 (WESTERN AVENUE) OVER
 CSX RAILROAD,
 KNOXVILLE AND HOLSTON
 RIVER RAILROAD, AND
 EAST FORK THIRD CREEK
 STATION 119+62.00
 KNOX COUNTY
 2016

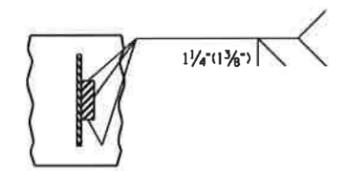
DESIGNED BY ADAM PRICE DATE 8-09
 DRAWN BY RANDY KIRK DATE 2-11
 SUPERVISED BY FIELDS/DIETERS DATE 2-11
 CHECKED BY ADAM PRICE DATE 7-13

CORRECT *Carmina M. Dieters*
 ENGINEER OF STRUCTURES

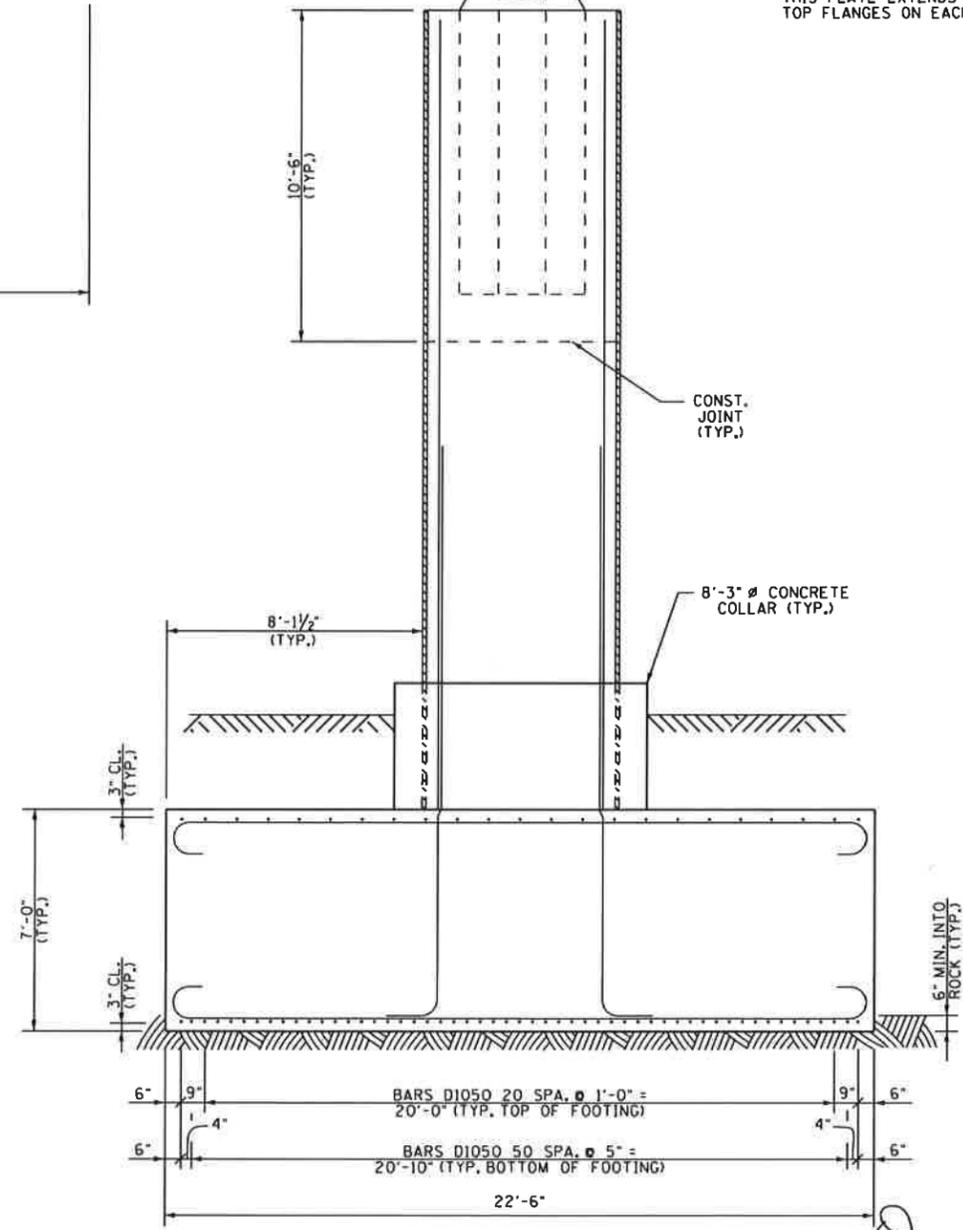
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| CONST. NO. 47023-2261-14 | | | |
| PROJECT NO. | YEAR | SHEET NO. | |
| STP-62(25) | 2016 | | |
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○ DENOTES: ELEVATIONS ARE TAKEN AT THE TOP OF THE TOP FLANGE FILLER PLATE. THIS PLATE EXTENDS OVER THE BENT CAP BETWEEN THE ENDS OF THE GIRDER TOP FLANGES ON EACH SIDE OF THE BENT CAP.



SECTION "F"- "F"



END ELEVATION

CORRECT *Dayne J. Saper*
ENGINEER OF STRUCTURE

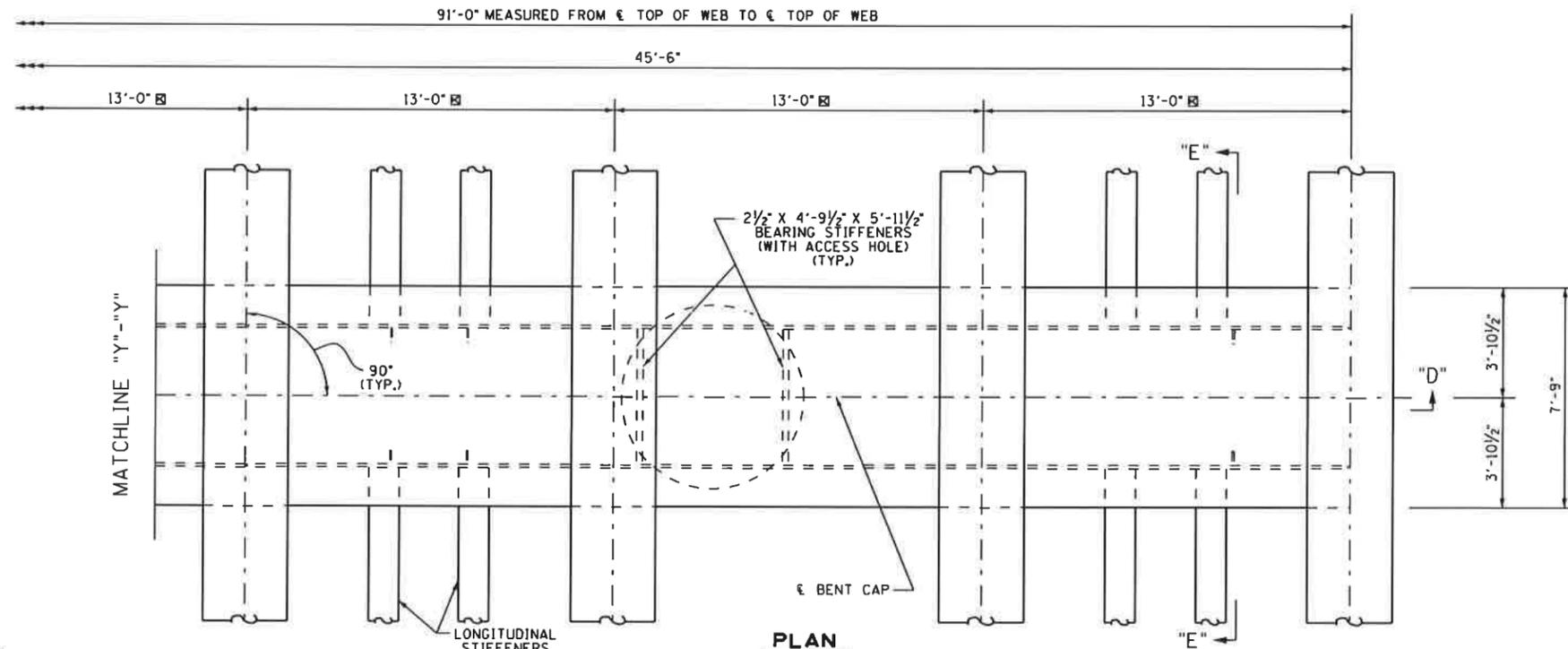
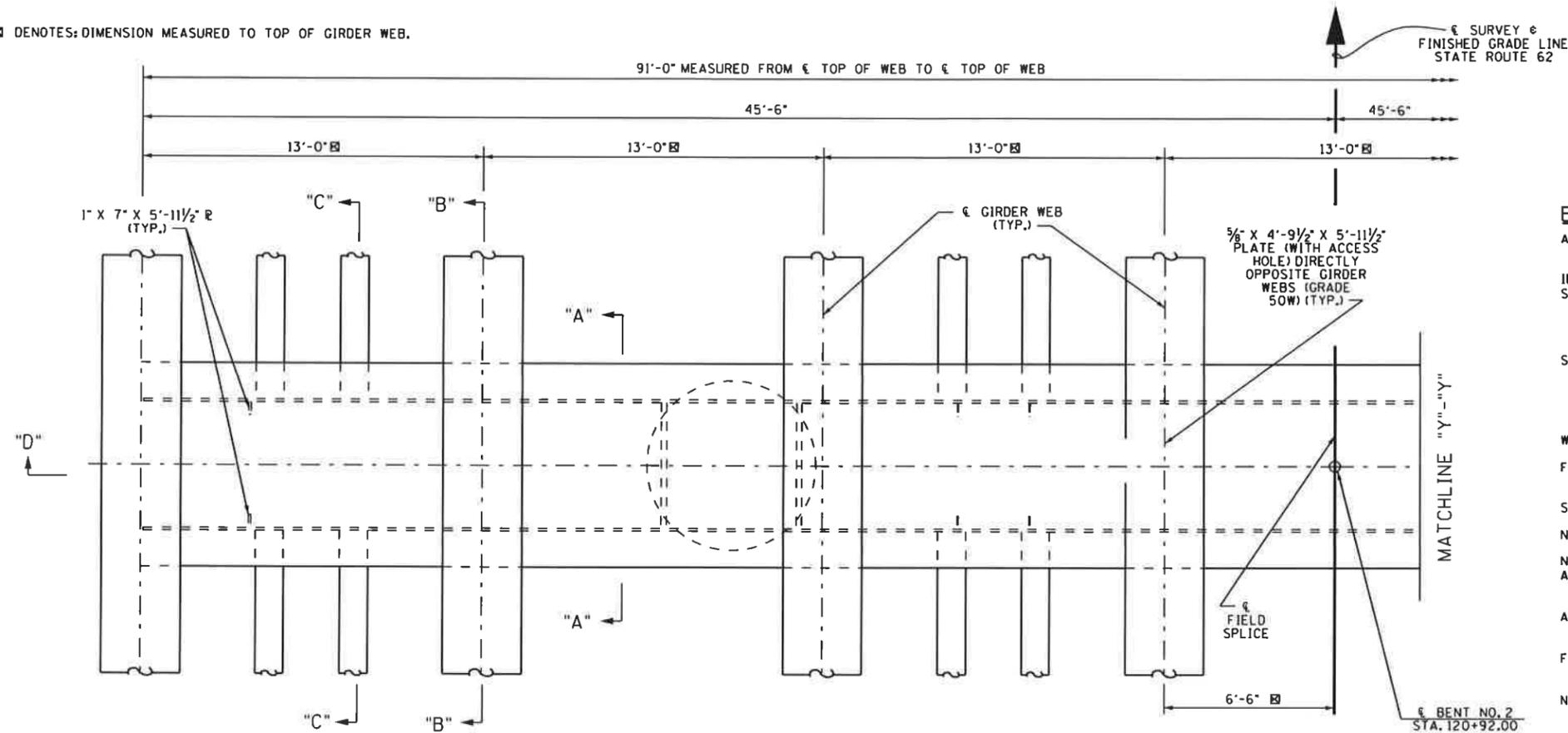


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
BENT NO. 1 DETAILS
STATE ROUTE 62
(WESTERN AVENUE) OVER
CSX RAILROAD,
KNOXVILLE AND HOLSTON
RIVER RAILROAD, AND
EAST FORK THIRD CREEK
STATION 119+62.00
KNOX COUNTY
2016

DESIGNED BY ADAM PRICE DATE 8-09
DRAWN BY RANDY KIRK DATE 2-11
SUPERVISED BY FIELDS/DIETERS DATE 2-11
CHECKED BY ADAM PRICE DATE 7-13

ELEVATION
(LOOKING FORWARD ON SURVEY)

☒ DENOTES DIMENSION MEASURED TO TOP OF GIRDER WEB.



PLAN

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| CONST. NO. 47023-2261-14 | | | |
| PROJECT NO. | YEAR | SHEET NO. | |
| STP-62(25) | 2016 | | |
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| NO. | DATE | BY | BRIEF DESCRIPTION |
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BENT GENERAL NOTES

- APPROVAL OF MATERIALS: NO FABRICATION SHALL BE STARTED UNTIL THE MATERIALS INVOLVED HAVE BEEN APPROVED BY THE TENNESSEE DEPARTMENT OF TRANSPORTATION, DIVISION OF MATERIALS AND TESTS.
- IDENTITY OF MAIN MATERIALS: SEE SECTION 602 OF THE STANDARD SPECIFICATIONS.
- STRUCTURAL STEEL: SHALL CONFORM TO ASTM A709 GRADE HP550W UNLESS OTHERWISE NOTED. ALL STEEL PLATE FOR BENT CAP EXCEPT MANWAY COVERS SHALL MEET THE SUPPLEMENTAL REQUIREMENTS FOR LONGITUDINAL CHARPY V-NOTCH TESTS SPECIFIED IN THE ASTM SPECIFICATIONS. ZONE 2 OF FRACTURE CRITICAL CRITERIA SHALL APPLY.
- STRUCTURAL STEEL DESIGNATED ON THE PLANS AS FRACTURE CRITICAL SHALL MEET THE REQUIREMENTS OF THE AASHTO GUIDE SPECIFICATIONS FOR FRACTURE CRITICAL NON-REDUNDANT STEEL BRIDGE MEMBERS AS REQUIRED FOR ZONE 2. FABRICATION OF FRACTURE CRITICAL BRIDGE MEMBERS SHALL BE ACCOMPLISHED BY FABRICATORS CERTIFIED UNDER THE AISC QUALITY CERTIFICATION PROGRAM, CATEGORY III.
- MAJOR STEEL BRIDGES: NO OTHER CERTIFICATION PROGRAM WILL BE ACCEPTABLE.
- WELDING: ANSI/AASHTO/AWS D1.5 CURRENT EDITION BRIDGE WELDING CODE AND SECTION 602 OF THE STANDARD SPECIFICATIONS.
- FIELD CONNECTIONS: SHALL BE 1" HIGH TENSILE STRENGTH BOLTS ASTM A325 TYPE 3 UNLESS OTHERWISE SHOWN. SEE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS ART. 11.3.2 AND SECTION 602 OF THE STANDARD SPECIFICATIONS.
- SHOP ASSEMBLY: PROGRESSIVE SHOP ASSEMBLY WILL BE ALLOWED. SEE AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS ART. 11.5.3.1
- NOTE: COLUMN CONCRETE SHALL BE PLACED IN ACCORDANCE WITH SECTION 604 OF THE STANDARD SPECIFICATIONS USING A TREMIE PIPE.
- NOTE: 2" WEEP HOLES WITH SCREEN WIRE COVER REQUIRED AT LOW POINT OF EACH CELL.
- ADDITIONAL SHOP SPLICE NOTE: SHOP SPLICES NECESSARY DUE TO LENGTHS OR SIZE OF MATERIAL INVOLVED MAY BE ADDED BY THE FABRICATOR SUBJECT TO APPROVAL BY THE ENGINEER AND SHALL BE AT NO ADDITIONAL COST TO THE PROJECT.
- ADDITIONAL FIELD SPLICE NOTE: FIELD SPLICES NECESSARY DUE TO LENGTHS INVOLVED MAY BE ADDED BY THE FABRICATOR SUBJECT TO APPROVAL BY THE ENGINEER AND SHALL BE AT NO ADDITIONAL COST TO THE PROJECT.
- FIELD SPLICE NOTE: FIELD SPLICES SHOWN ON THE PLANS MAY BE DELETED BY THE CONTRACTOR, ADJUSTMENT TO THE LUMP SUM PRICE FOR STEEL STRUCTURES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
- NOTE: EXTERIOR OF STEEL COLUMN CASINGS SHALL BE PAINTED WITH INORGANIC ZINC WITH URETHANE FINISH - BROWN TOP COAT CONFORMING TO FEDERAL STANDARD 595C (20059).
- NOTE: ALL LIFTING LUGS ATTACHED TO THE EXTERIOR OF THE STEEL COLUMN CASINGS SHALL BE REMOVED AFTER ERECTION. LIFTING LUG WELDS SHALL BE GROUND SMOOTH AND REPAINTED PER PLANS REQUIREMENTS TO MATCH THE REST OF THE STEEL COLUMN CASING.
- NOTE: SEE DRAWING NO. U-64-97 THRU U-64-104 FOR ADDITIONAL DETAILS.

| ESTIMATED QUANTITIES | |
|-----------------------------------|---------------------------------|
| CLASS "A" CONCRETE (BRIDGES) C.Y. | REINFORCING STEEL (BRIDGES) LB. |
| 314 | 76,956 |

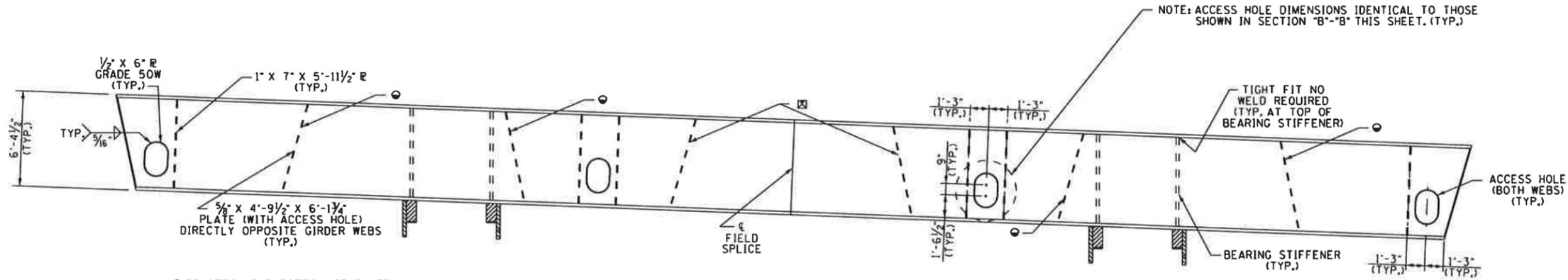


STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BRIDGE NO. 1
 BENT NO. 2
 STATE ROUTE 62
 (WESTERN AVENUE) OVER
 CSX RAILROAD,
 KNOXVILLE AND HOLSTON
 RIVER RAILROAD, AND
 EAST FORK THIRD CREEK
 STATION 119+62.00
 KNOX COUNTY
 2016

DESIGNED BY: ADAM PRICE DATE: 8-09
 DRAWN BY: RANDY KIRK DATE: 2-11
 SUPERVISED BY: FIELDS/DIETERS DATE: 2-11
 CHECKED BY: ADAM PRICE DATE: 7-13

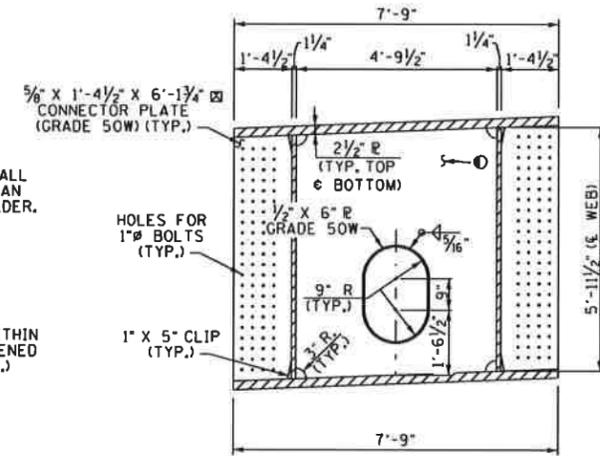
CORRECT *Deane J. Sapp*
 ENGINEER OF STRUCTURES

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| CONST. NO. 47023-2261-14 | | | |
| PROJECT NO. | YEAR | SHEET NO. | |
| STP-62(25) | 2016 | | |
| REVISIONS | | | |
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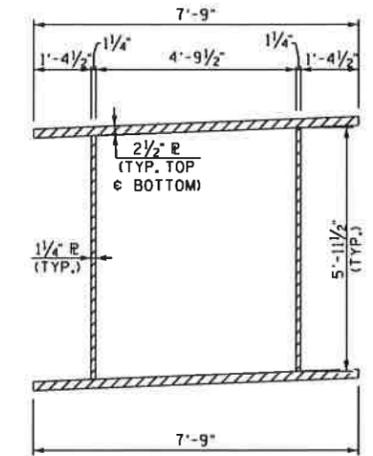


⊙ DENOTES: WELD BOTTOM OF PLATE AND SIDES OF PLATE, TERMINATING WELDS 3" FROM EACH CORNER. TIGHT FIT TOP OF PLATE. THIS ALSO APPLIES TO THE CONNECTOR PLATES SHOWN IN SECTION "B"- "B".
 ⊠ DENOTES: WELD TOP OF PLATE AND SIDES OF PLATE, TERMINATING WELDS 3" FROM EACH CORNER. TIGHT FIT BOTTOM OF PLATE. THIS ALSO APPLIES TO THE CONNECTOR PLATES SHOWN IN SECTION "B"- "B".

SECTION "D"- "D"

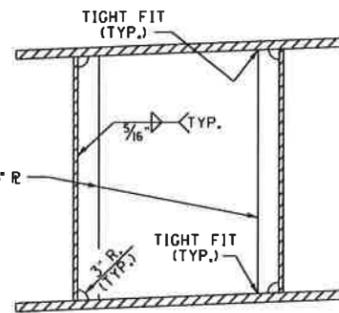


⊙ DENOTES: 5/8" X 4'-9 1/2" FULL DEPTH PLATE DIRECTLY OPPOSITE GIRDER WEBS. SEE SECTION "D"- "D" FOR WELD LOCATIONS.
 ⊠ DENOTES: MEASURED ALONG WEB SLOPE.
 NOTE: SEE SPLICE ELEVATION FOR LOCATION OF BOLT HOLES.
 NOTE: SEE SECTION "D"- "D" FOR WELD LOCATIONS OF CONNECTOR PLATES TO FLANGES AND WEBS.

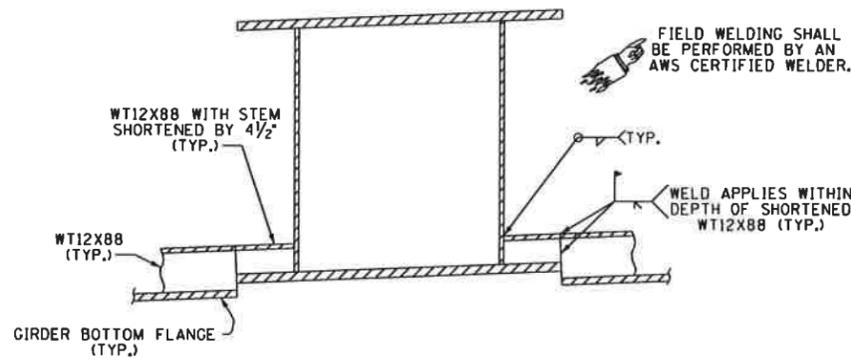


NOTE: ALL MEMBERS SHOWN ARE FRACTURE CRITICAL.

SECTION "A"- "A"



SECTION "E"- "E"



NOTE: SPLICE AND SPACER PLATES NOT SHOWN FOR CLARITY.

SECTION "C"- "C"

SECTION "B"- "B"



STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BRIDGE NO. 1
 BENT NO. 1 & 2 DETAILS
 STATE ROUTE 62
 (WESTERN AVENUE) OVER
 CSX RAILROAD,
 KNOXVILLE AND HOLSTON
 RIVER RAILROAD, AND
 EAST FORK THIRD CREEK
 STATION 119+62.00
 KNOX COUNTY
 2016

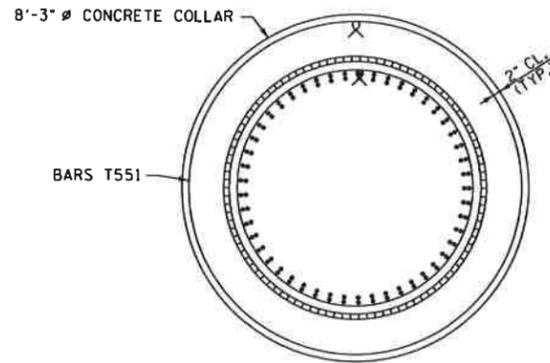
DESIGNED BY: ADAM PRICE DATE: 8-09
 DRAWN BY: RANDY KIRK DATE: 2-11
 SUPERVISED BY: FIELDS/DIETERS DATE: 2-11
 CHECKED BY: ADAM PRICE DATE: 7-13

CORRECT

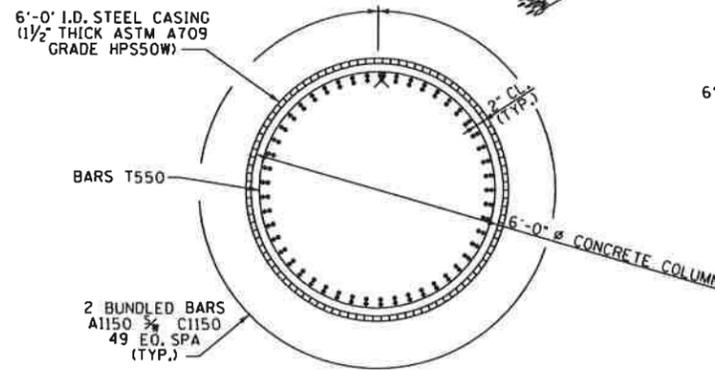
Dayne J. Saper
 ENGINEER OF STRUCTURE

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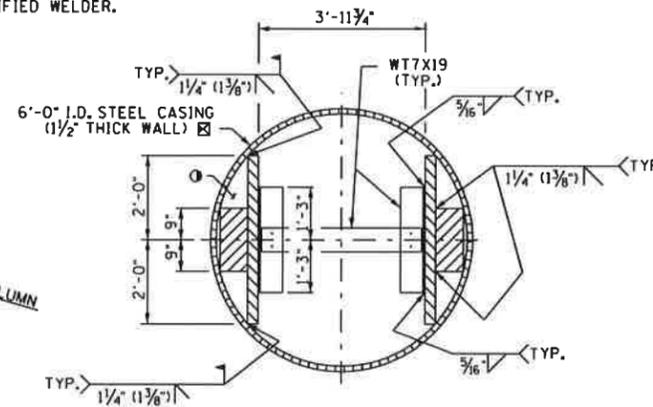


SECTION "K"-"K"



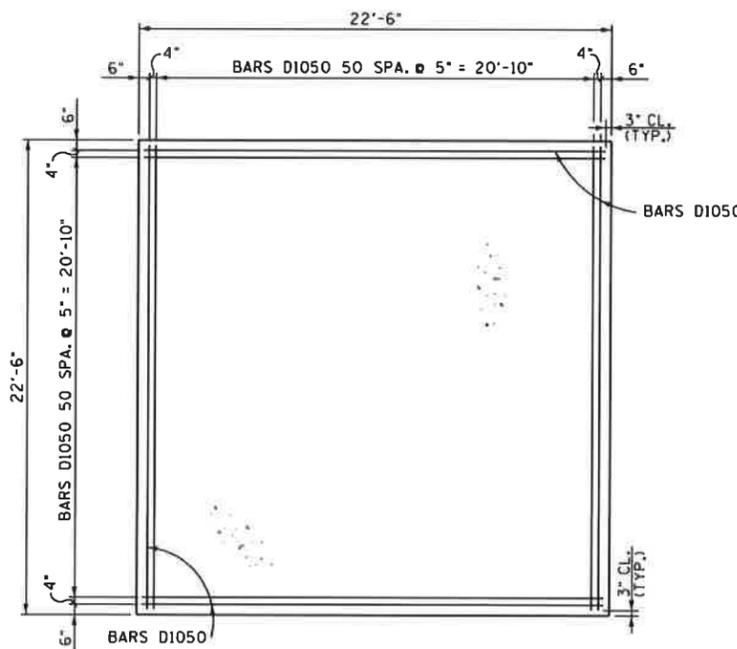
NOTE: ANY REINFORCING STEEL INTERFERING WITH BEARING PLATES SHALL BE CUT 2" CLEAR.

SECTION "H"-"H"



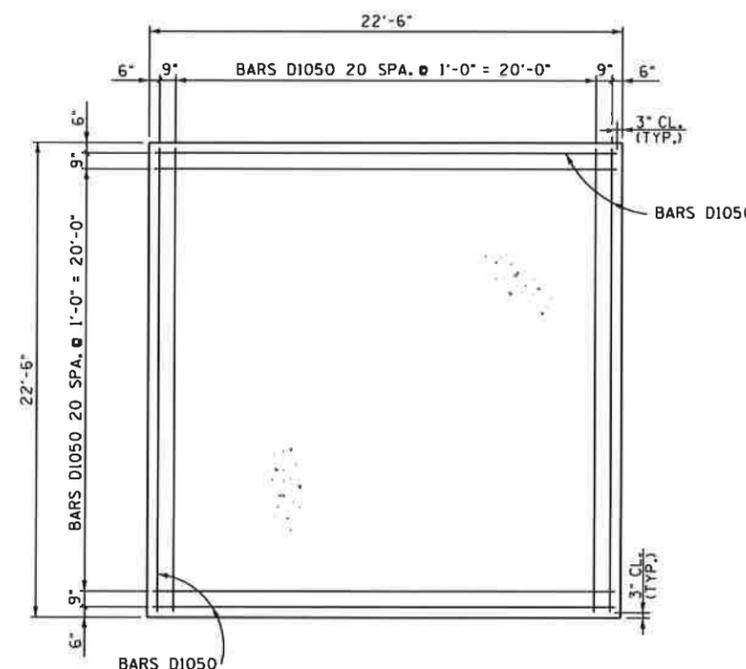
NOTE: REINFORCING STEEL NOT SHOWN FOR CLARITY
 DENOTES: STRUCTURAL STEEL CONFORMING TO ASTM A709 GRADE HPS50W
 DENOTES: AFTER CONCRETE COLUMN IS COMPLETED, ALL VOIDS SHALL BE FILLED WITH GROUT (TYP.)

SECTION "G"-"G"



FOOTING

(SHOWING BOTTOM MAT OF REINFORCEMENT)



FOOTING

(SHOWING TOP MAT OF REINFORCEMENT)

| DISTANCE FROM END OF CAP | CAMBER (IN.) | |
|--------------------------|-----------------|---------------|
| | TOTAL DEAD LOAD | CAP DEAD LOAD |
| 0 | 1/4" | 0 |
| 10'-6" | 1/8" | 0 |
| 20'-6" | 0 | 0 |
| 30'-6" | 0 | 0 |
| 40'-6" | 1/16" | 0 |
| 50'-6" | 1/16" | 0 |
| 60'-6" | 0 | 0 |
| 70'-6" | 0 | 0 |
| 80'-6" | 1/8" | 0 |
| 91'-0" | 1/4" | 0 |

BENT CAP DEAD LOAD CORRECTION CURVE
 DEAD LOAD CORRECTION CURVE: BENT CAP SHALL BE CAMBERED TO COMPENSATE FOR TOTAL DEAD LOAD DEFLECTION.

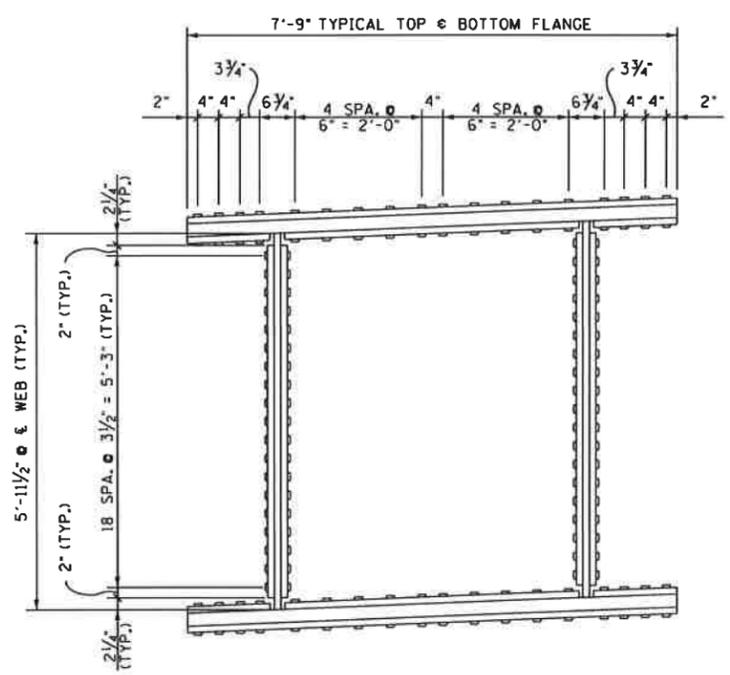


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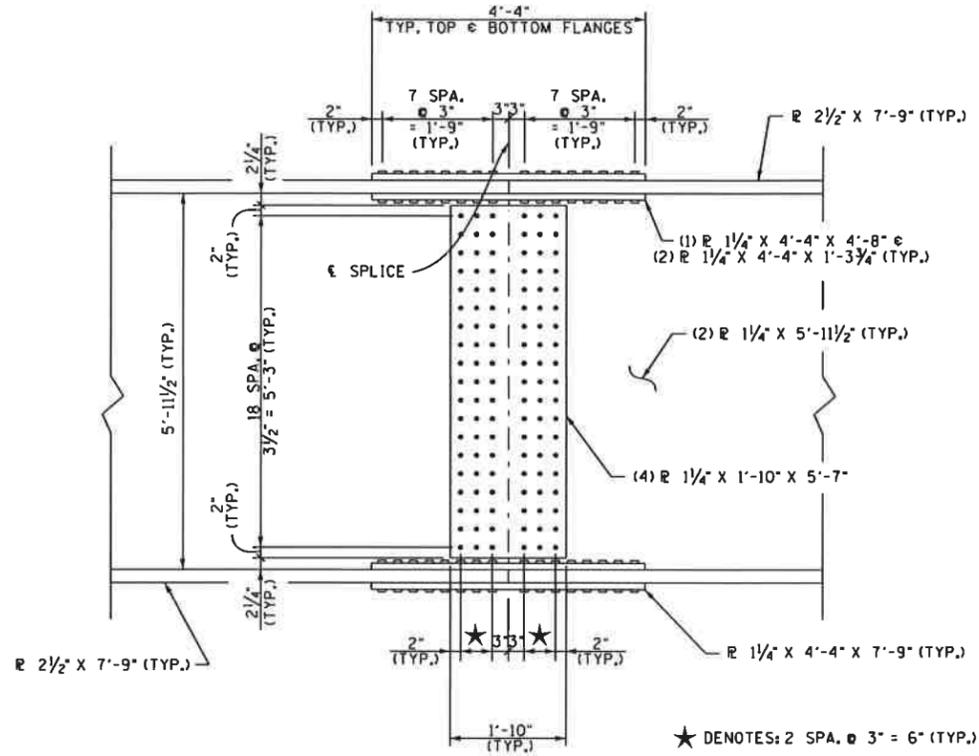
DESIGNED BY ADAM PRICE DATE 6-09
 DRAWN BY RANDY KIRK DATE 2-11
 SUPERVISED BY FIELDS/DIETERS DATE 2-11
 CHECKED BY ADAM PRICE DATE 6-13

CORRECT *Dayne J. Saper*
 ENGINEER OF STRUCTURES

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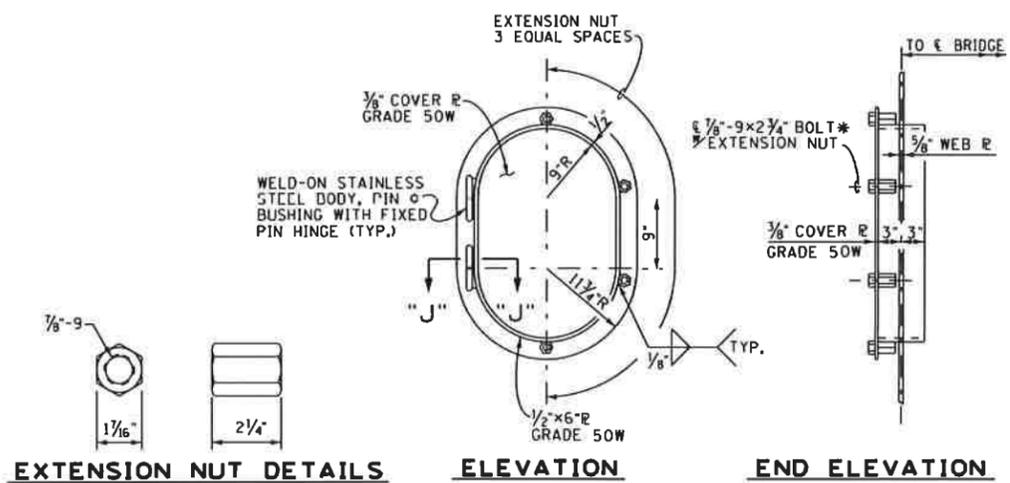


CAP SPLICE CROSS-SECTION

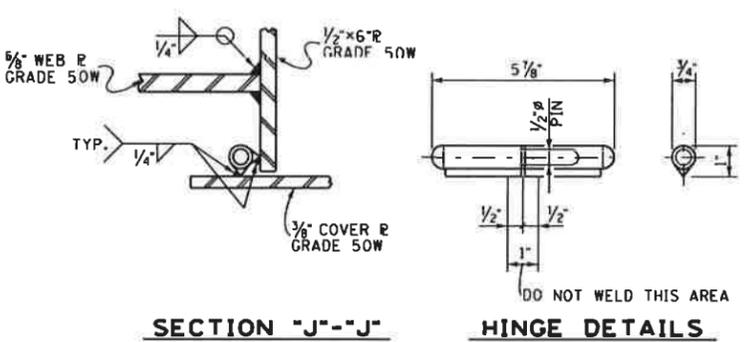


NOTE: ALL SPLICE PLATES TO BE ASTM A709 GRADE HPS50W STEEL.
ALL SPLICE BOLTS TO BE 1" H.S. BOLTS A325 TYPE 3.

CAP SPLICE ELEVATION



MANWAY COVER
(REQUIRED @ BOTH ENDS OF EACH BENT CAP)



SECTION 'J'-'J' **HINGE DETAILS**



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CORRECT *Carolina M. Dietz*
ENGINEER OF STRUCTURE

