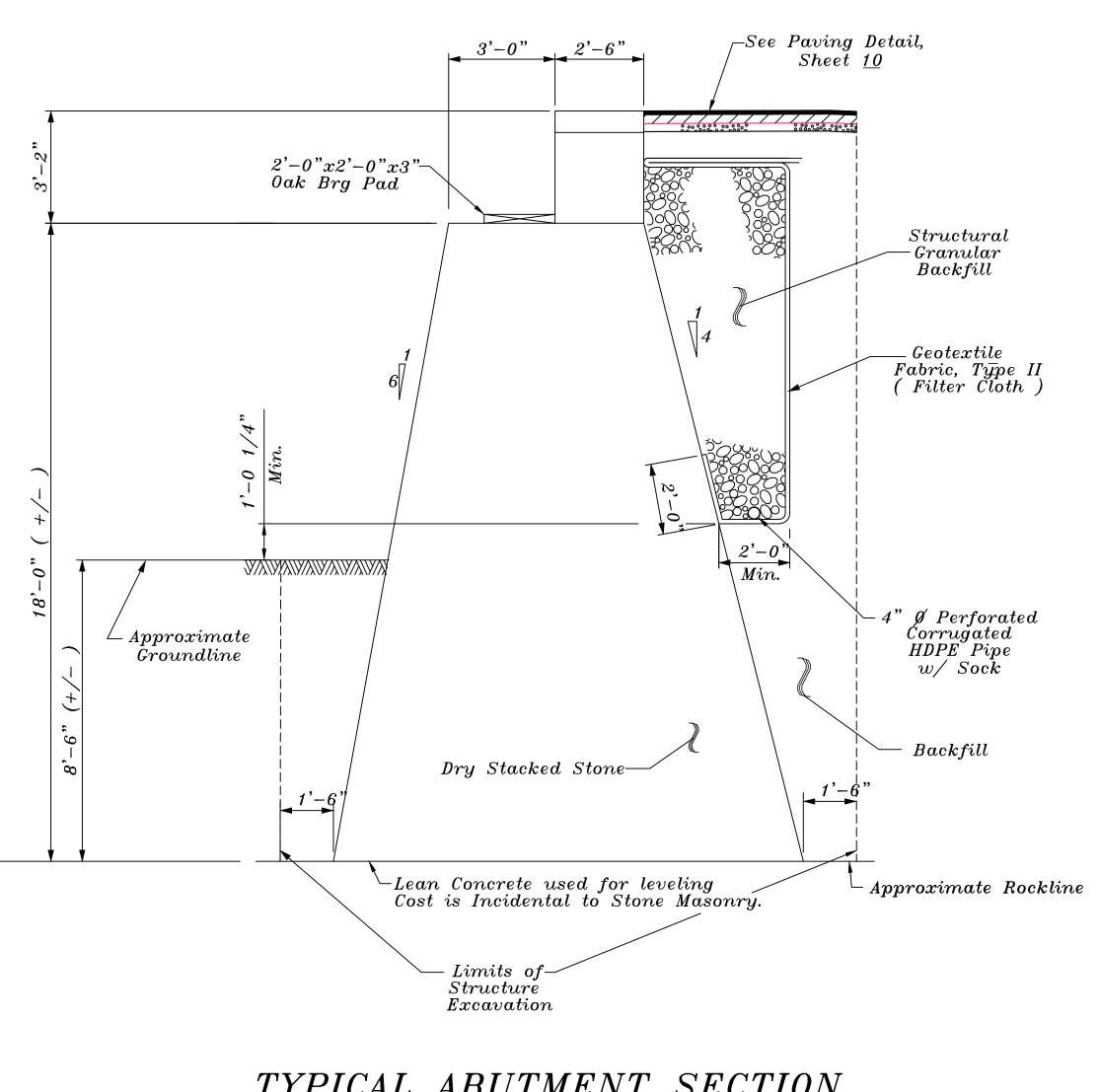
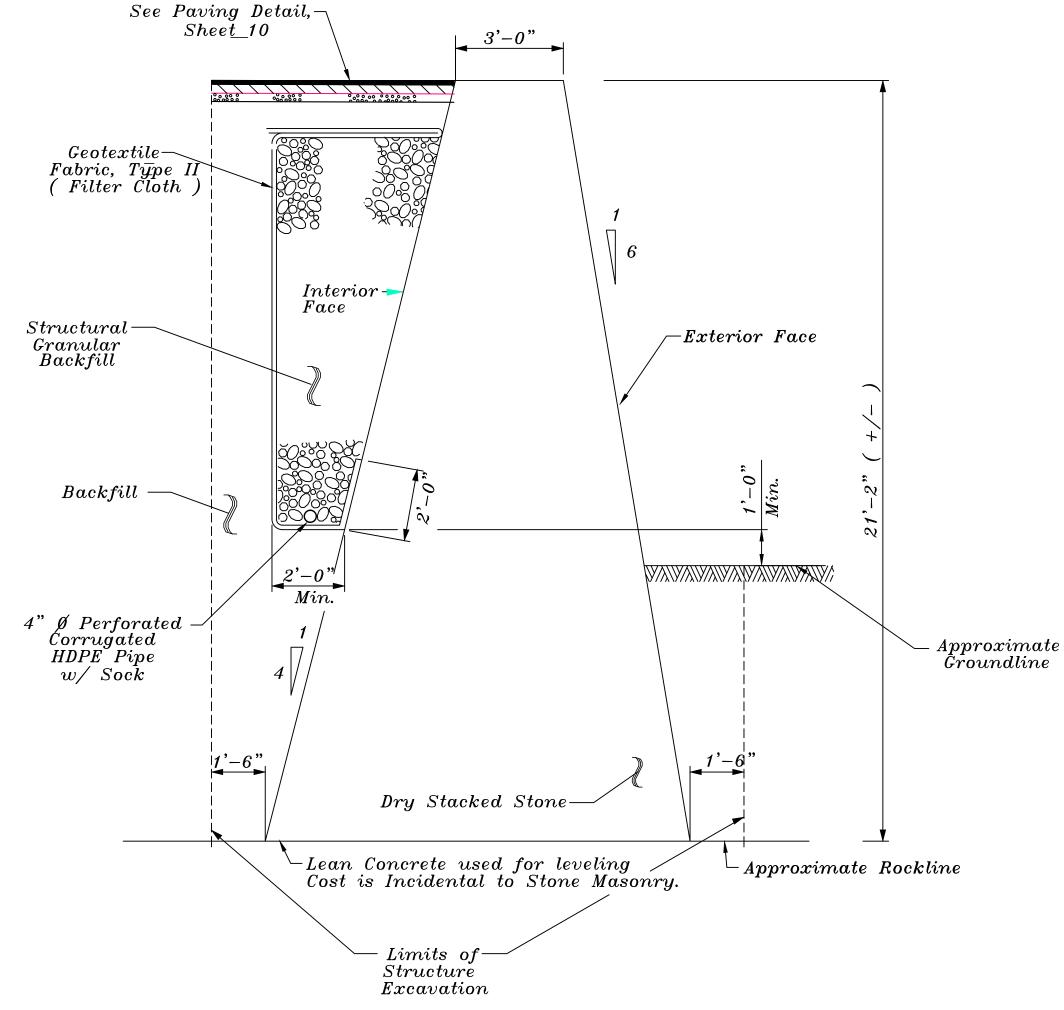


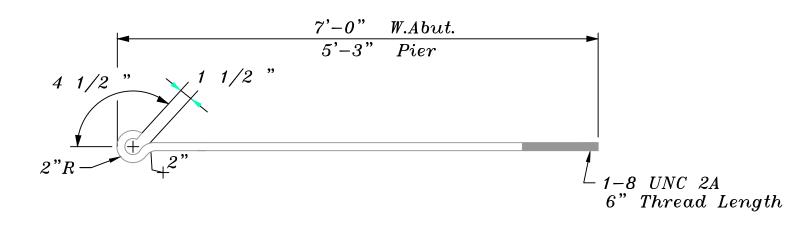
DRAWING NO. 24366

Frankfort, Kentucky

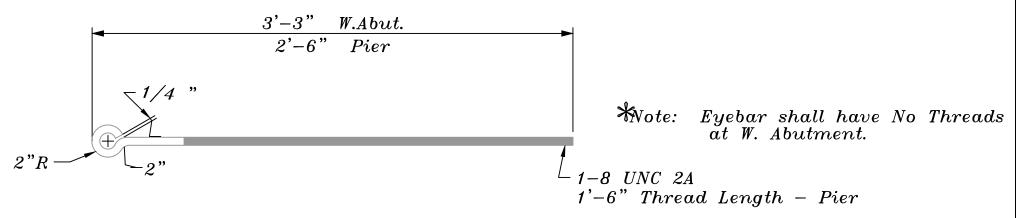
3-248,0







17 O HOOK BAR DETAIL



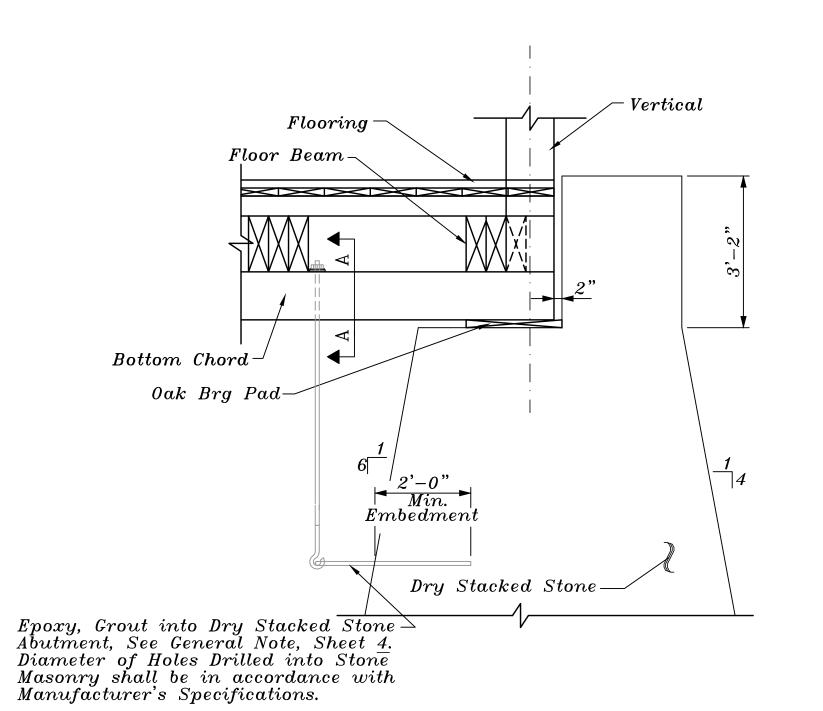
17 O EYEBAR DETAIL

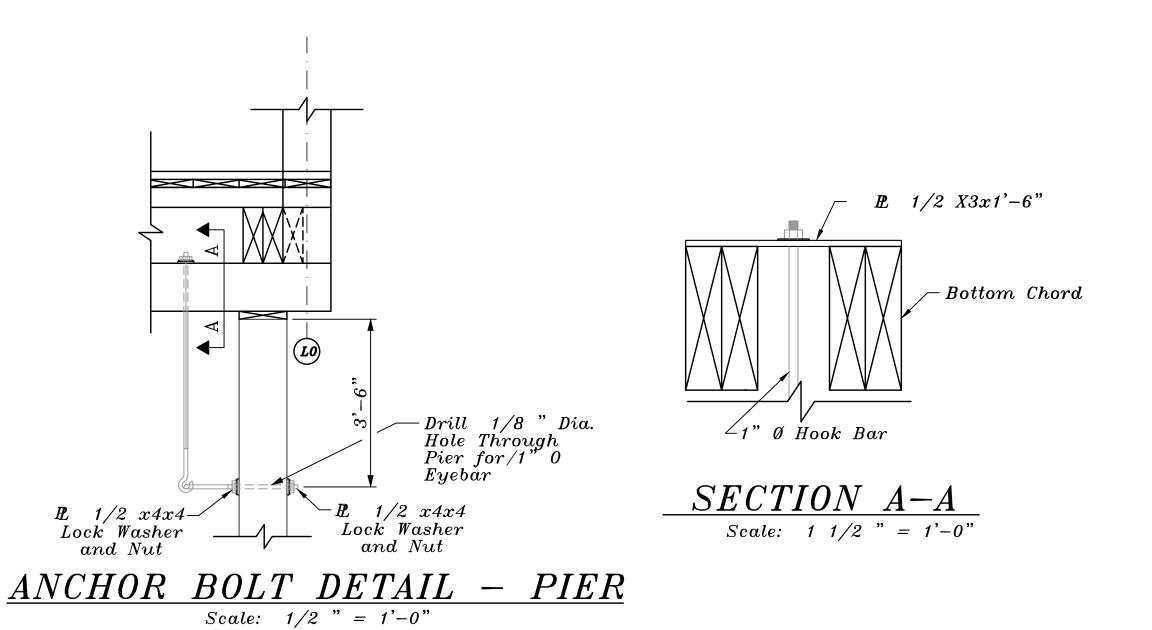
NOTE: Work this sheet with sheets $\underline{7}$ & $\underline{9}$.

NOTE: Dimensions shown on the plans are for information and estimating purposes only. It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to ordering material and construction.

	DATE: Au	gust-98	CHECKED	BY
	DESIGNED BY:	LTX	MBJ	
	DETAILED BY:	BL	MBJ	
	Common	Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS		
		FLEMING		
	CR3110	Goddard	crossing Covered Br	ridge
	W	EST AB	UTMENT	
ITEM NUMBER	Bright	PREPARED BY	E Inc.	SHEET NO.
3-248.0		on A & fort, Kei		DRAWING NO. 24366

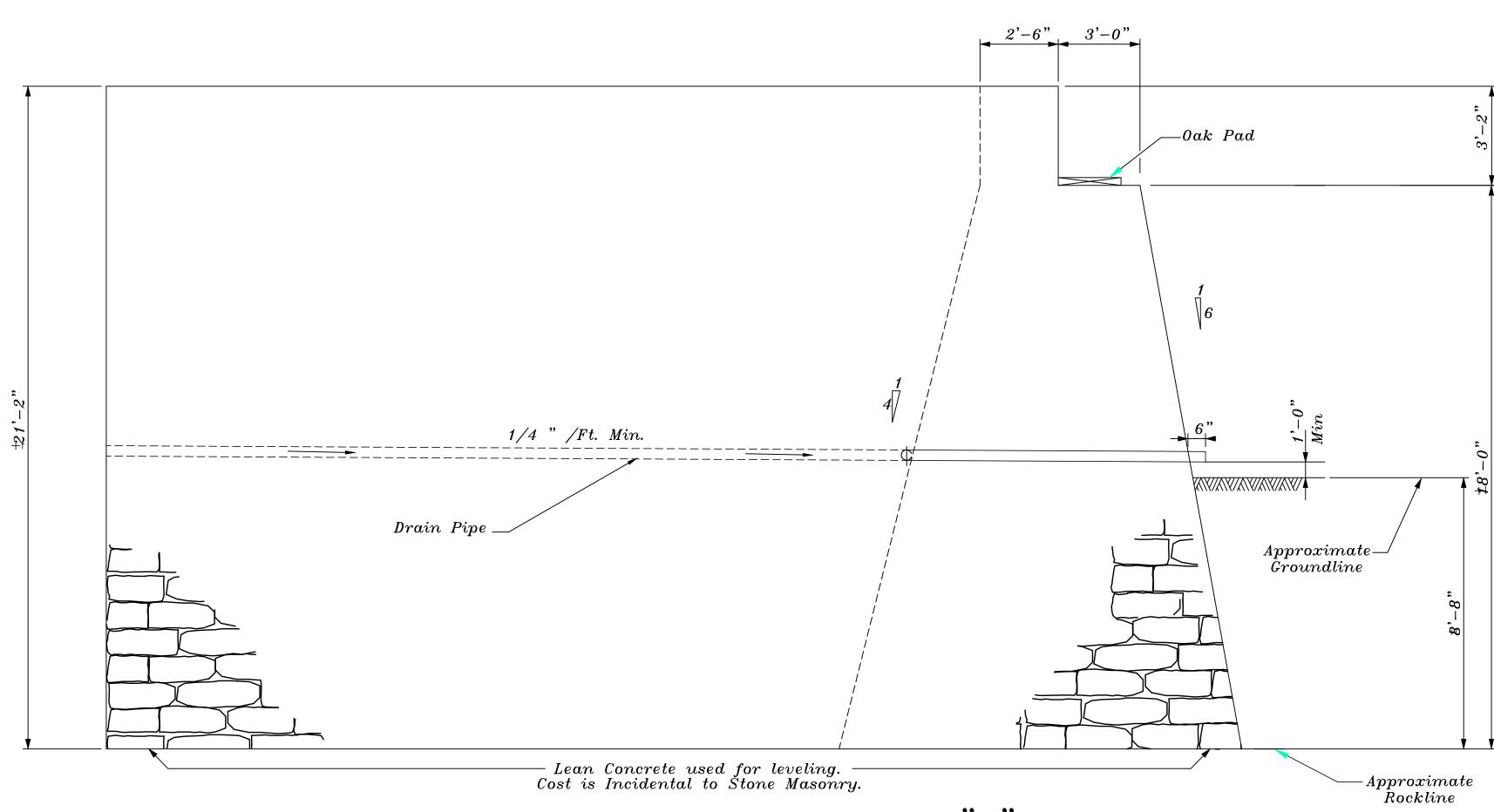
TYPICAL ABUTMENT SECTION



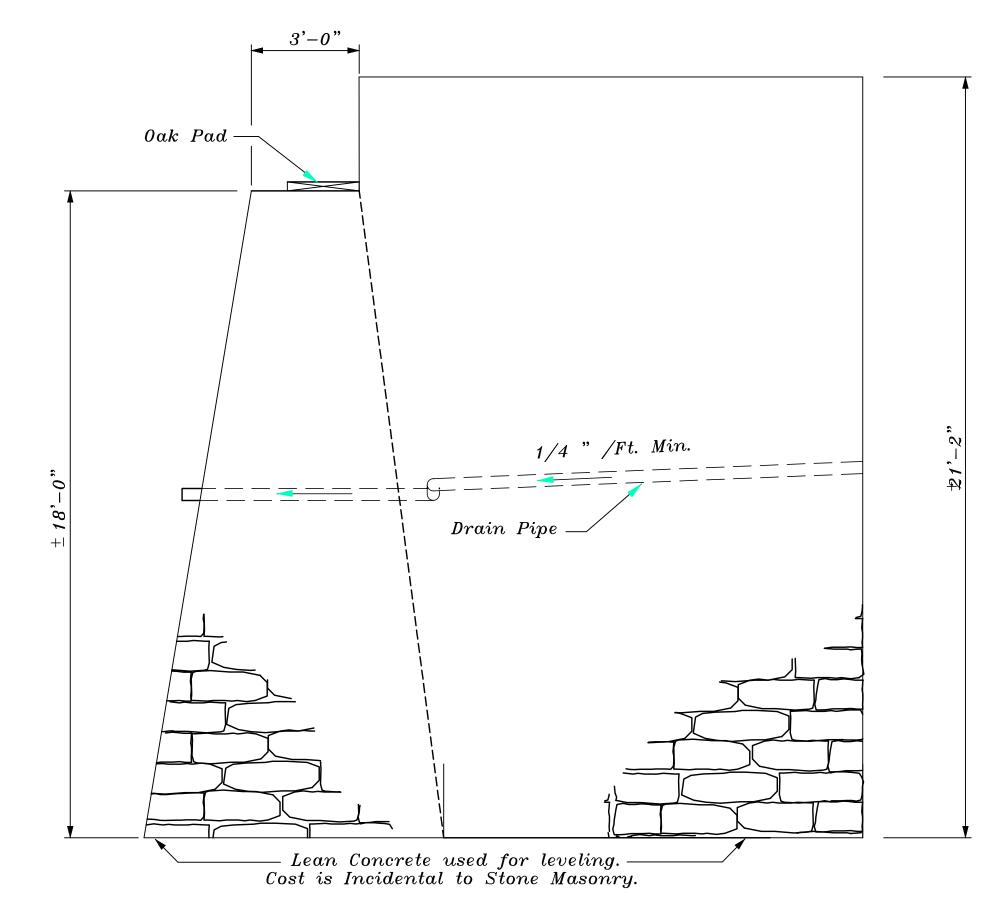


(Looking North)

TYPICAL WING SECTION



ELEVATION WING "A"

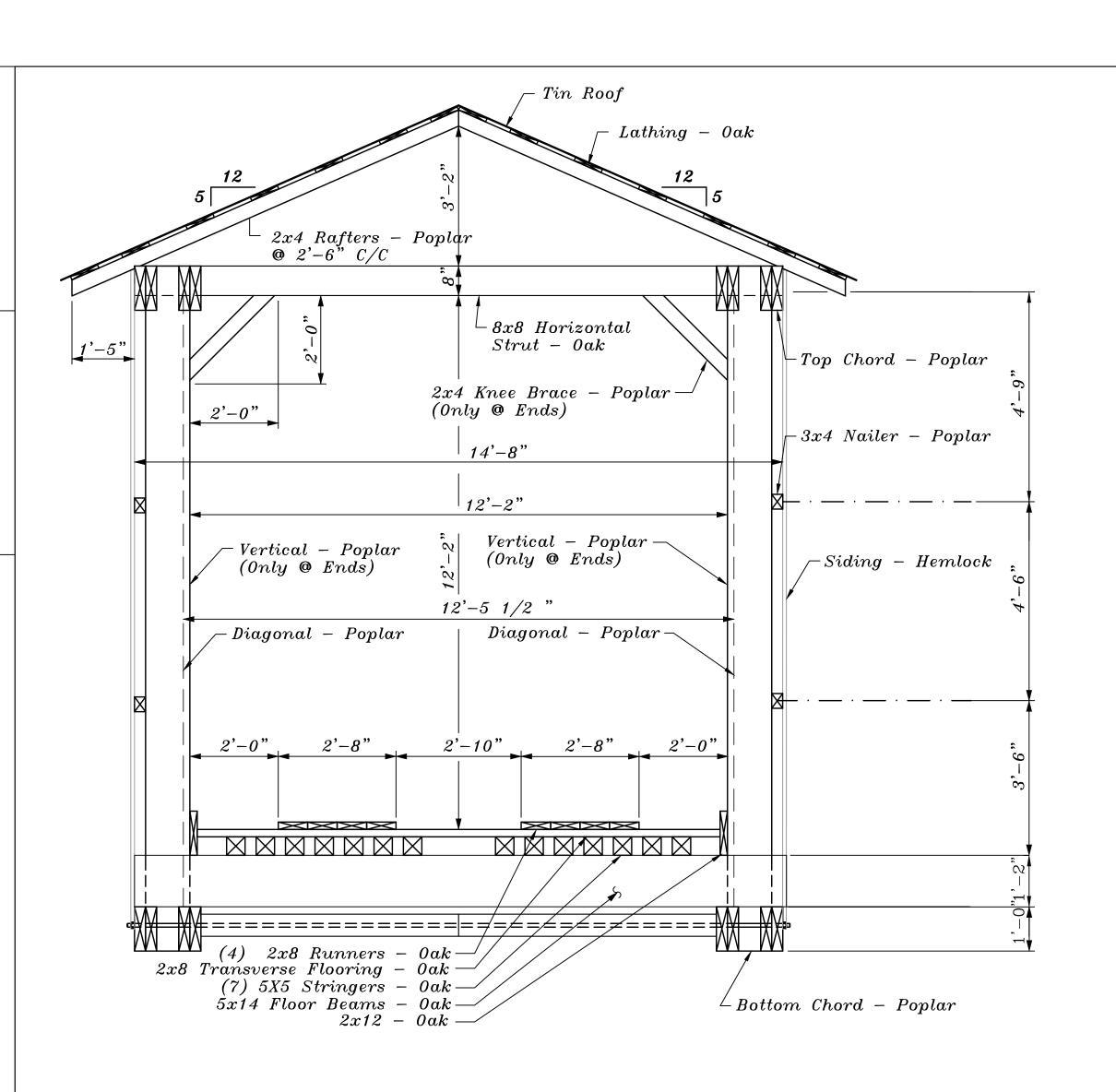


ELEVATION WING "B"

NOTE: Work this sheet with sheets $\underline{7}$ & $\underline{8}$.

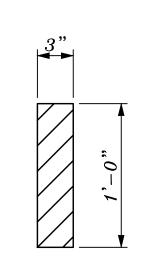
NOTE: Dimensions shown on the plans are for information and estimating purposes only. It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to ordering material and construction.

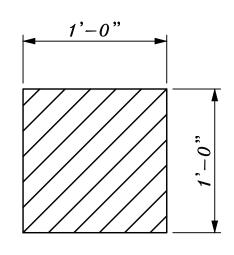
	DATE:	August-98	CHECKED	BY
	DESIGNED B	Y: LTX	MBJ	
	DETAILED B	Y: BL	MBJ	
	Comm	nonwealth SPARTMENT (of Kent F HIGHWAY	$\frac{ucky}{S}$
		COUNT HILHM		
	ROUTE CR3110	Goddard	crossing Covered Br	idge
		WEST AB	UTMENT	
ITEM NUMBER	Daic	PREPARED BY	T Inc	SHEET NO.
3-248.0		hton A & ınkfort, Kei		DRAWING NO. 2436

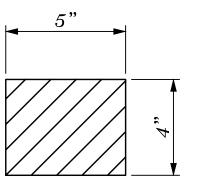


3" 3" 6" 3" 3"

Scale: 3' = 1"



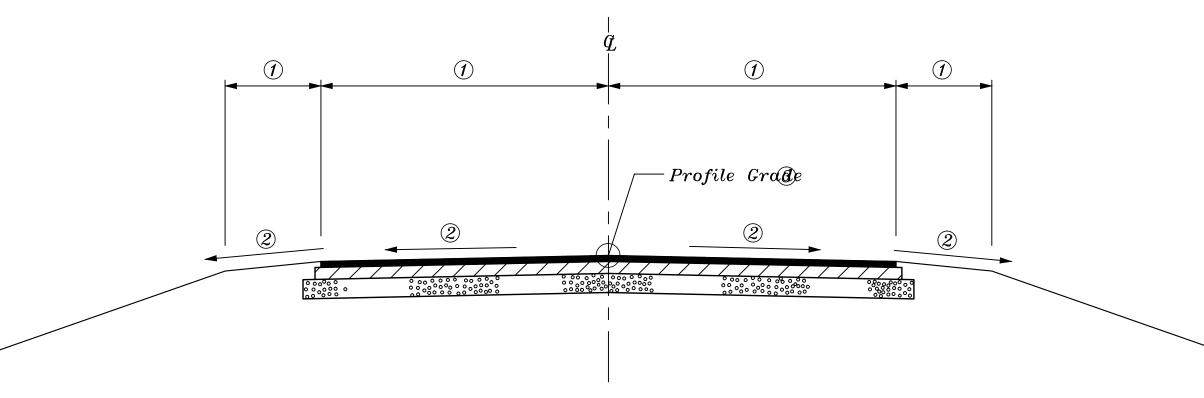




Scale: 3' = 1'-0"

Scale: 3' = 1'-0"

Scale: 3" = 1'-0"



<u>CR3110 - PAVING DETAIL</u>

WEST ABUTMENT TO KY32

SURFACE DESIGN

1 1/4 " Bit. Conc. Surf. Class I-0 2" Bit. Conc. Base Class I

4" D.G.A. Base
Tack (Apply as directed by

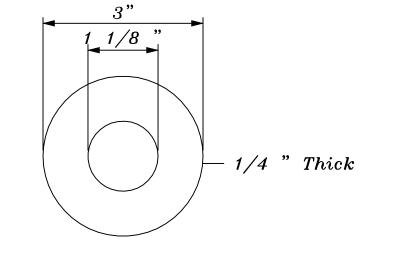
Tack (Apply as directed by the Engineer between each Bituminous Course)

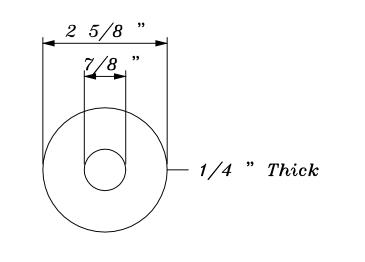
- 1 Match Existing Pavement and Shoulder Widths
- 2 Match Existing Cross Slopes
- 3 Match Existing Roadway for Profile Grade.

NOTE: Dimensions shown on the plans are for information and estimating purposes only. It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to ordering material and construction.

DESIGNED BY:

DETAILED BY:





 $\frac{1" \not O METAL ROD}{PLATE WASHER}$ Scale: 6" = 1'-0"

3/4 "/ 0 METAL ROD PLATE WASHER

Scale: 6" = 1'-0"

FLEMING

ROUTE CROSSING CROSSING
CR3110 Goddard Covered Bridge

LTX

KDA

August-98

ITEM NUMBER
3-248.0

TYPICAL SECTIONS

PREPARED BY

SHEET ND.

10

PRAWING ND.
24366

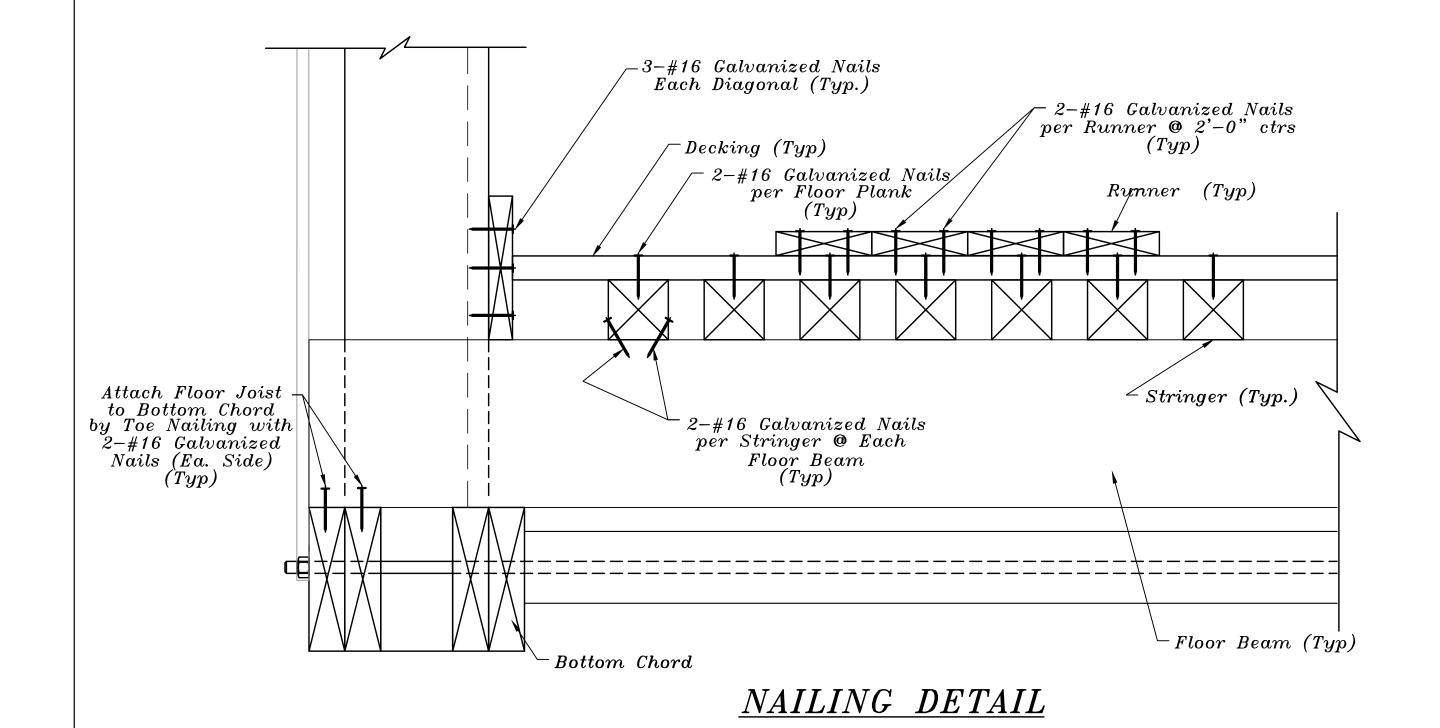
Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

CHECKED BY

MBJ

MBJ

TYPICAL SECTION - BRIDGE



NORTH ELEVATION

(Looking North)

SHEET NO.

24366

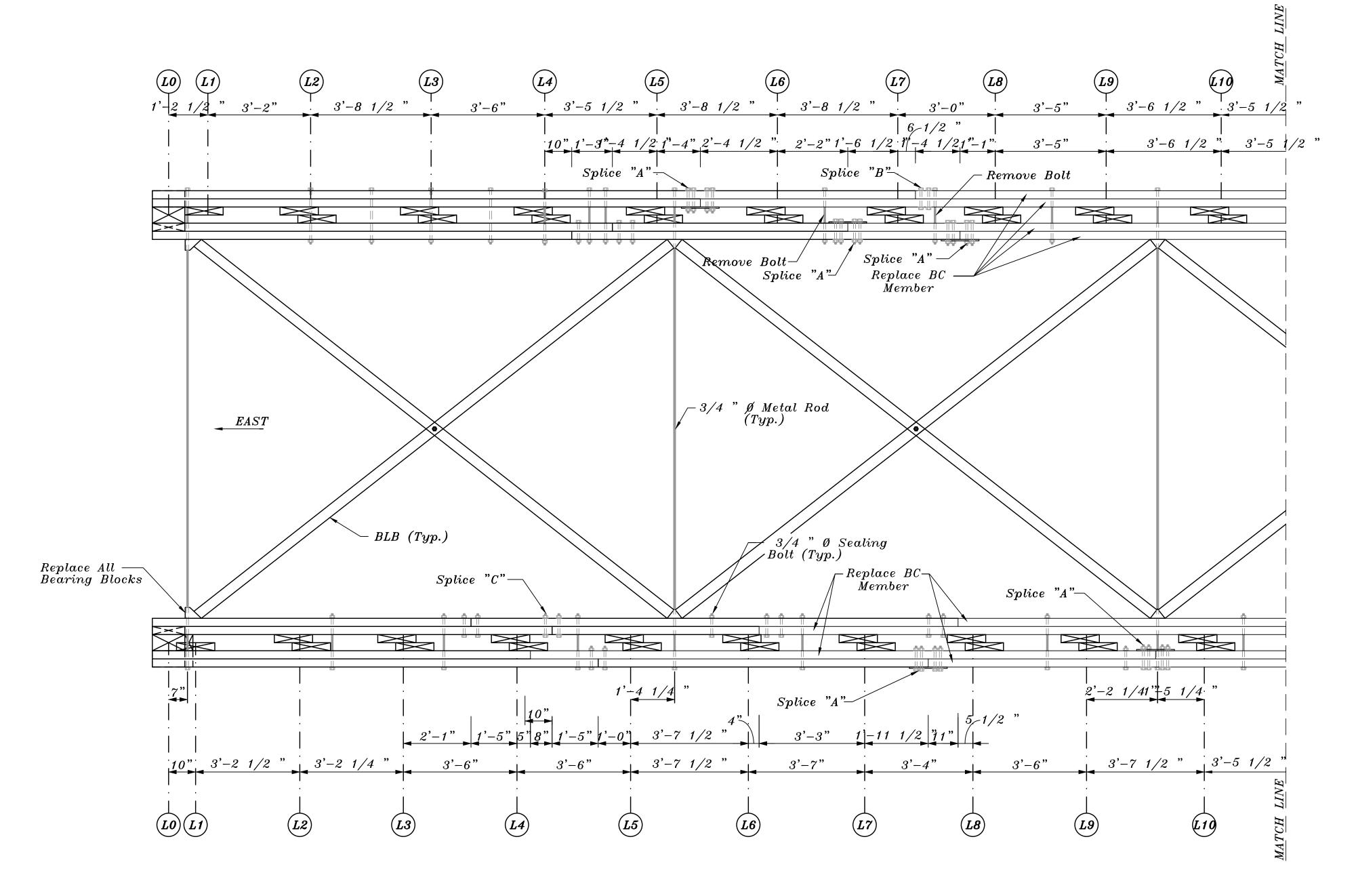
Brighton A & E Inc.

Frankfort, Kentucky

ITEM NUMBER

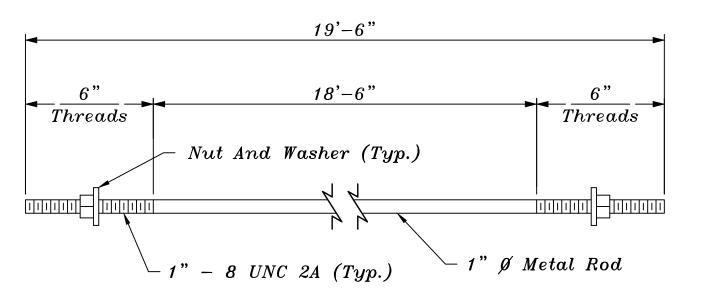
3-248.0

NOTE: $extbf{Replace Member}$



15'-0" 6" 14'-0" Threads Nut And Washer (Typ.) 3/4 - 10UNC 2A (Typ.) 3/4 " Ø Metal Rod

3/4 "/O METAL ROD DETAIL



3/4 "/O METAL ROD DETAIL

Note: New Bottom Chord Members shall consist of 3x12
Poplar Lumber, Structural Grade No. 2. Length and
Splice locations shall be maintained. For Typical
Sect see Sheet 10.

Replace all Bearing Blocks with Oak, Structural Grade No. 2, see Sheet 19 for details.

All Metal Rods shall be Replaced. See Metal Rod Detail on this sheet.

See Washer Details on Sheet 10.

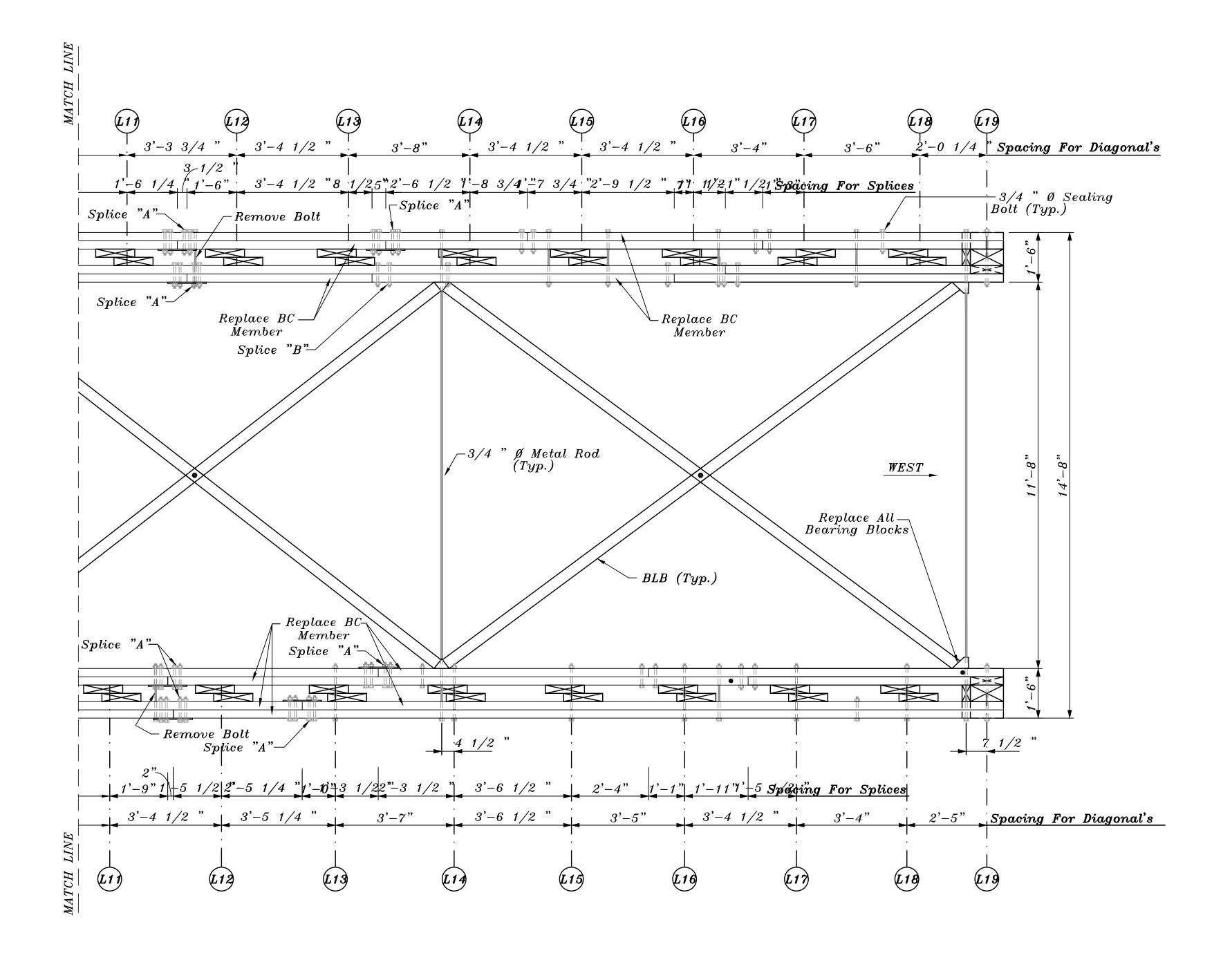
See Sheet 19 For Splice A, B & C Details.

 $BC = Bottom \ Chord \ BLB = Bottom \ Lateral \ Bracing$

NOTE: Dimensions shown on the plans are for information and estimating purposes only. It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to ordering material and construction.

	DATE:	August-98	CHECKED 1	3Y
	DESIGNED E	BY: LTX	MBJ	
	DETAILED E	BY: KDA	MBJ	
	Comm	nonwealth EPARTMENT (of Kent F HIGHWAY.	$\frac{ucky}{S}$
		FLEM		
	ROUTE CR3110	Goddard	crossing Covered Bri	dge
	ВС	OTTOM CH	ORD PLA	\mathbb{N}
ITEM NUMBER		PREPARED BY		SHEET NO.
	Brig	hton A &	E Inc.	
3-248.0	Fra	ankfort, Kei	ntucky	24366

BOTTOM CHORD PLAN



BOTTOM CHORD PLAN

Note: New Bottom Chord Members shall consist of 3x12
Poplar Lumber, Structural Grade No. 2. Length and
Splice locations shall be maintained. For Typical
Sect see Sheet 10.

Replace all Bearing Blocks with Oak, Structural Grade No. 2, see_Sheet 19 for details.

All Metal Rods shall be Replaced. See Metal Rod Detail on Sheet 12.

See Washer Details on Sheet 10.

See Sheet 19 For Splice A, B & C Details.

 $BC = Bottom \ Chord \ BLB = Bottom \ Lateral \ Bracing$

NOTE: Dimensions shown on the plans are for information and estimating purposes only. It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to ordering material and construction.

CHECKED BY

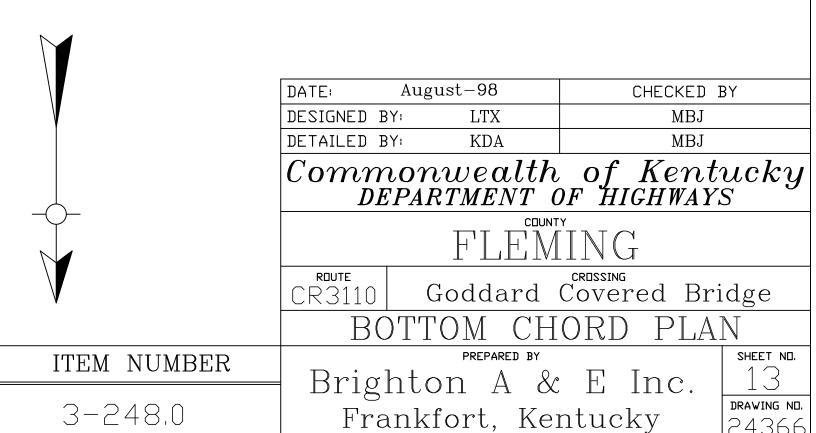
MBJ

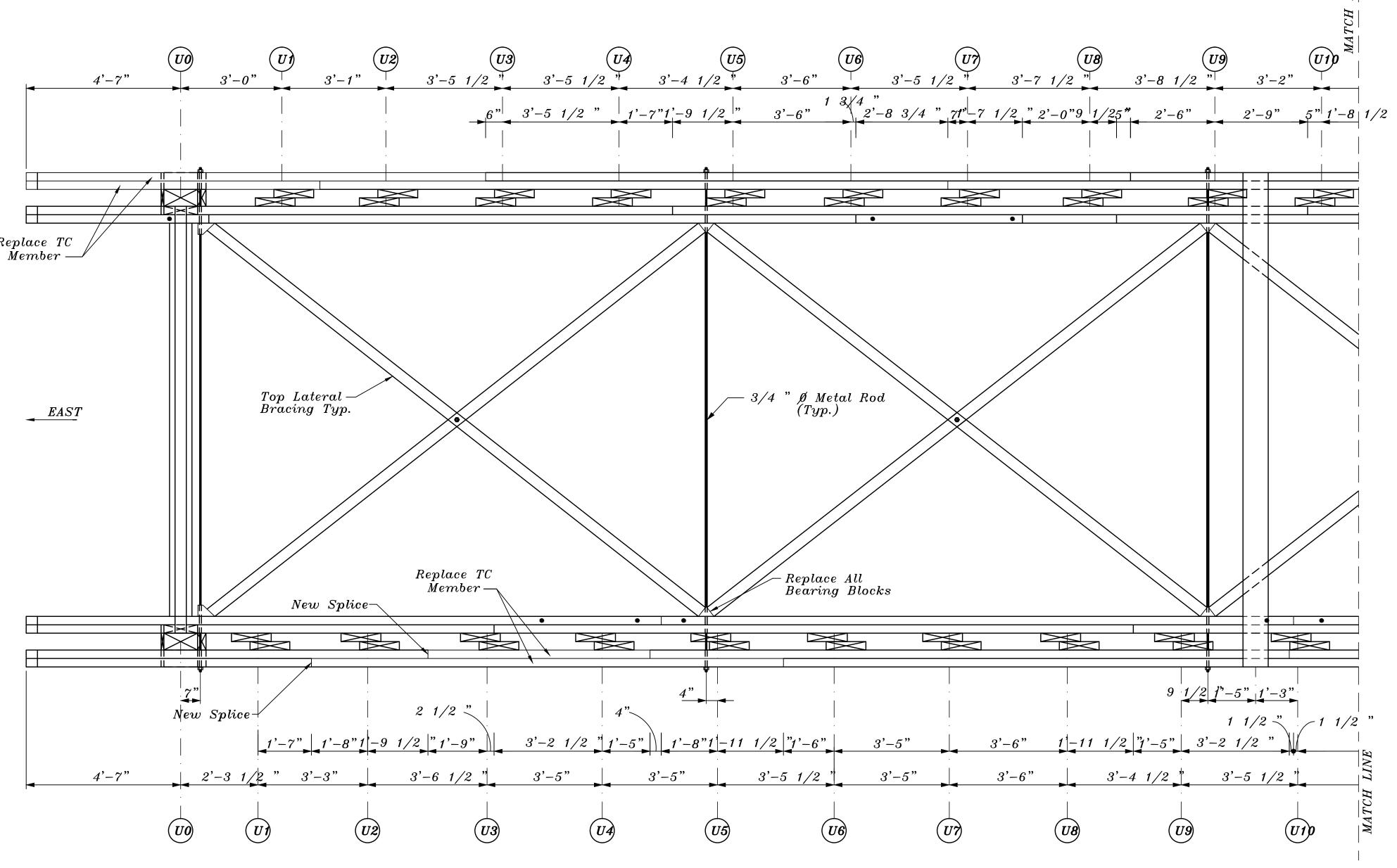
MBJ

SHEET NO.

DRAWING NO.

24366





NOTE: Dimensions shown on the plans are for information and estimating purposes only. It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to ordering material and construction.

 $egin{array}{ll} TC &= Top & Chord \ TLB &= Top & Lateral & Bracing \end{array}$

TOP CHORD PLAN

Note: All Metal Rods shall be Replaced. See Metal Rod Detail on sheet 12.

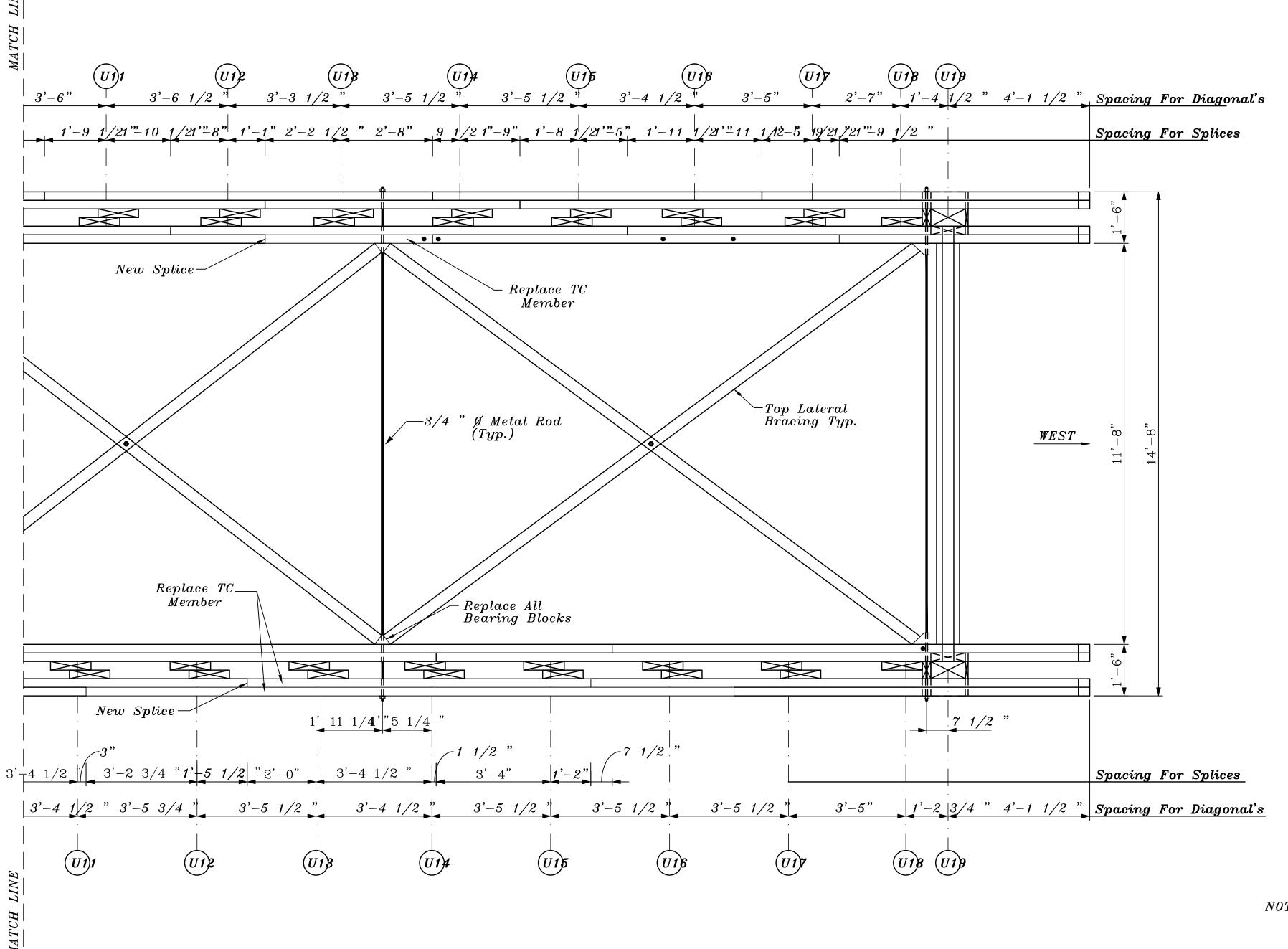
See Washer Detail on sheet 10.

Replace Bearing Blocks with Oak, Structural Grade No. 2, See sheet <u>19</u> for details.

New Top Chord Members shall consist of Poplar Lumber, Structural Grade No.2. Length and Splice locations shall be as shown on plans. For Typical Section of Top Chord see Sheet <u>10</u>.

DATE:	August-98	CHECKED I	3Y
DESIGNED I	BY: LTX	MBJ	
DETAILED I	BY: KDA	MBJ	
Comm	nonwealth EPARTMENT (of Kent	ucky S
	H'LHM	ING	
ROUTE CR3110	Goddard	crossing Covered Bri	dge
	TOP CHOP	RD PLAN	
	PREPARED BY		SHEET NO.
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ITEM NUMBER	PREPARED BY Drighton A O T Inc	SHEET NO.
3-248.0	Brighton A & E Inc. Frankfort, Kentucky	DRAWING NO. 24366



NOTE: Dimensions shown on the plans are for information and estimating purposes only. It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to ordering material and construction.

TC = Top Chord
TLB = Top Lateral Bracing

DATE:

TOP CHORD PLAN

Note: All Metal Rods shall be Replaced. See Metal Rod Detail on sheet <u>12</u>.

See Washer Detail on sheet <u>10</u>.

Replace Bearing Blocks with Oak, Structural Grade No. 2, See sheet 19 for details.

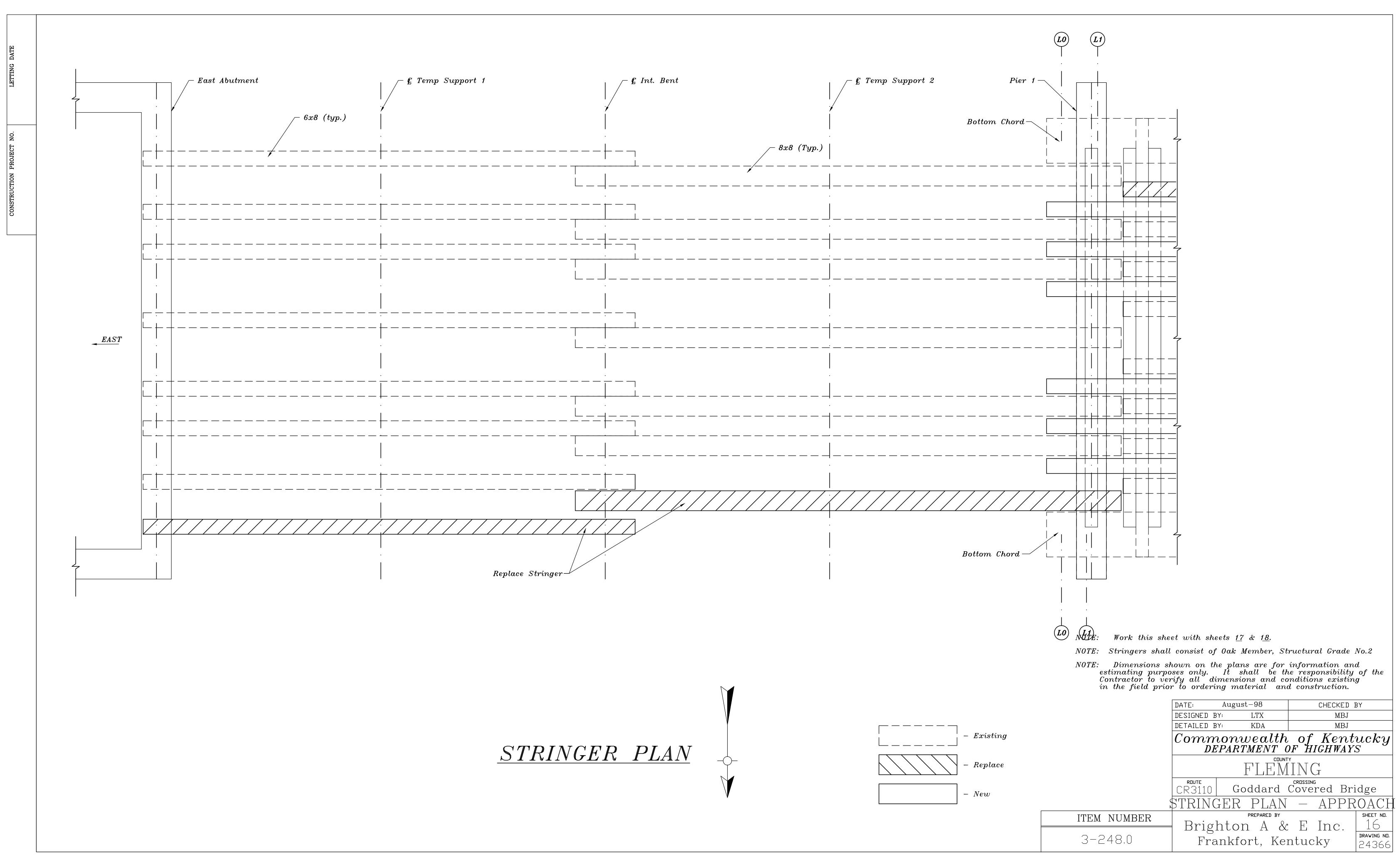
New Top Chord Members shall consist of Poplar Lumber, Structural Grade No.2. Length and Splice locations shall be as shown on plans. For Typical Section of Top Chord see Sheet <u>10</u>.

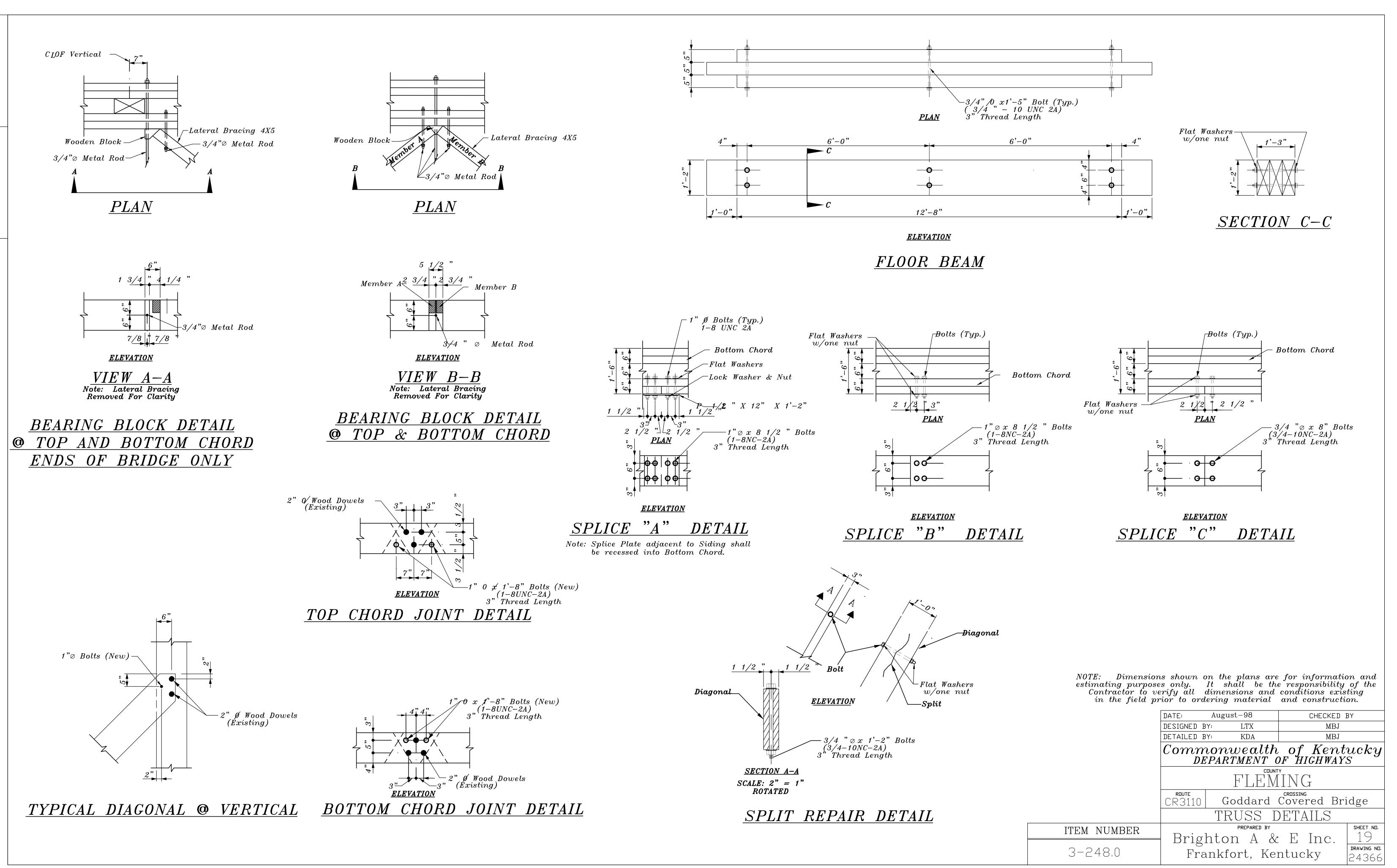
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2.	DETAILED B	Y: KDA	MBJ			
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	DE	SPARTMENT C)F HIGHWAY.	S		
		COUNT	Y			
	H'LEMING					
	ROUTE	O 11 1	CROSSING	-		
	CR3110	Goddard	Covered Bri	.dge		
		TOP CHOP	RD PLAN			
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CHECKED BY

ITEM NUMBER	PREPARED BY	SHEET NO.
3-248.0	Brighton A & E Inc. Frankfort, Kentucky	DRAWING ND. 24366

August-98







559 Jones Franklin Rd. Suite 164 Raleigh, N.C. 27606 Bus: 919 851 8077 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

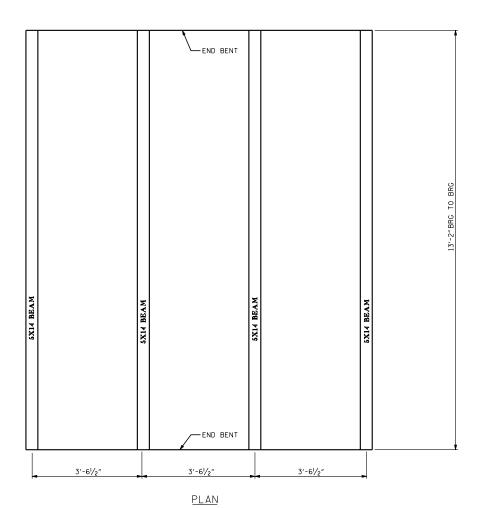
GODDARD COVERDED BRIDGE

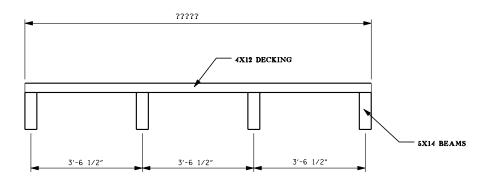
COUNTY: FLEMING

DRAWN BY: MWC

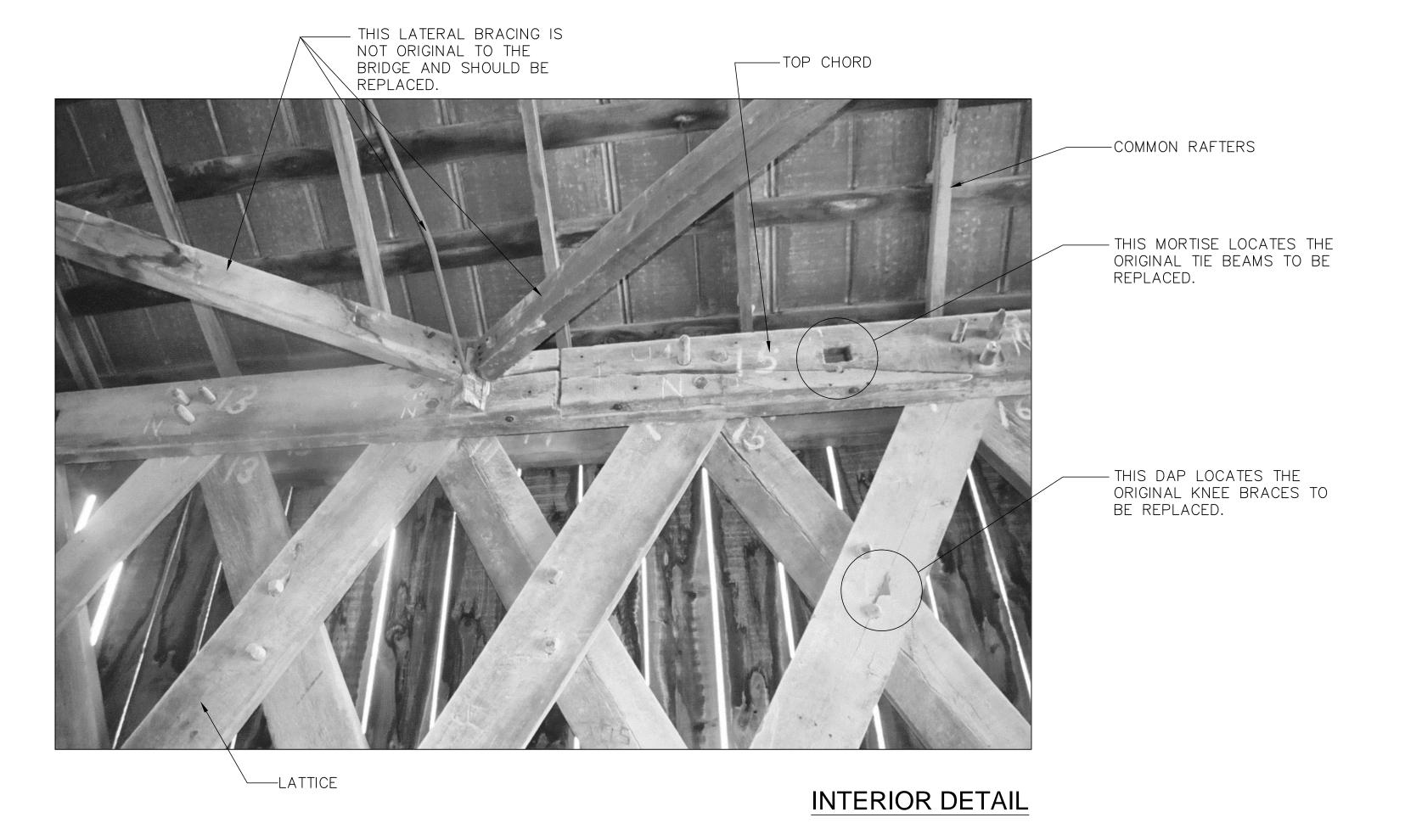
CHECKED BY:

DATE: <u>5/26/05</u>





ELEVATION





D.C.
FISCHETTI
11,621

C/ONAL ENGINEER

DATE: March 2005 CHECKED BY

DESIGNED BY: DCF

DETAILED BY: CG, DCF

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Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

FLEMING

CROSSING

CROSSING

CROSSING

Goddard Covered Bridge
INTERIOR VIEWS

ITEM NUMBER

3-248.0

DCF Engine

PREPARED BY

DCF Engineering, Inc.

PO Box 879 • 109 Brady Ct. • Cary, NC 27512-0879

SHEET NO.
P1

DRAWING NO.
24366

TIE BEAM-

BRACE

TRANSVERSE FLOORING

RUNNERS-

STRINGERS.

FLOOR BEAMS

CHORD

CHECKED BY

PO Box 879 **1**09 Brady Ct. **27512**-0879

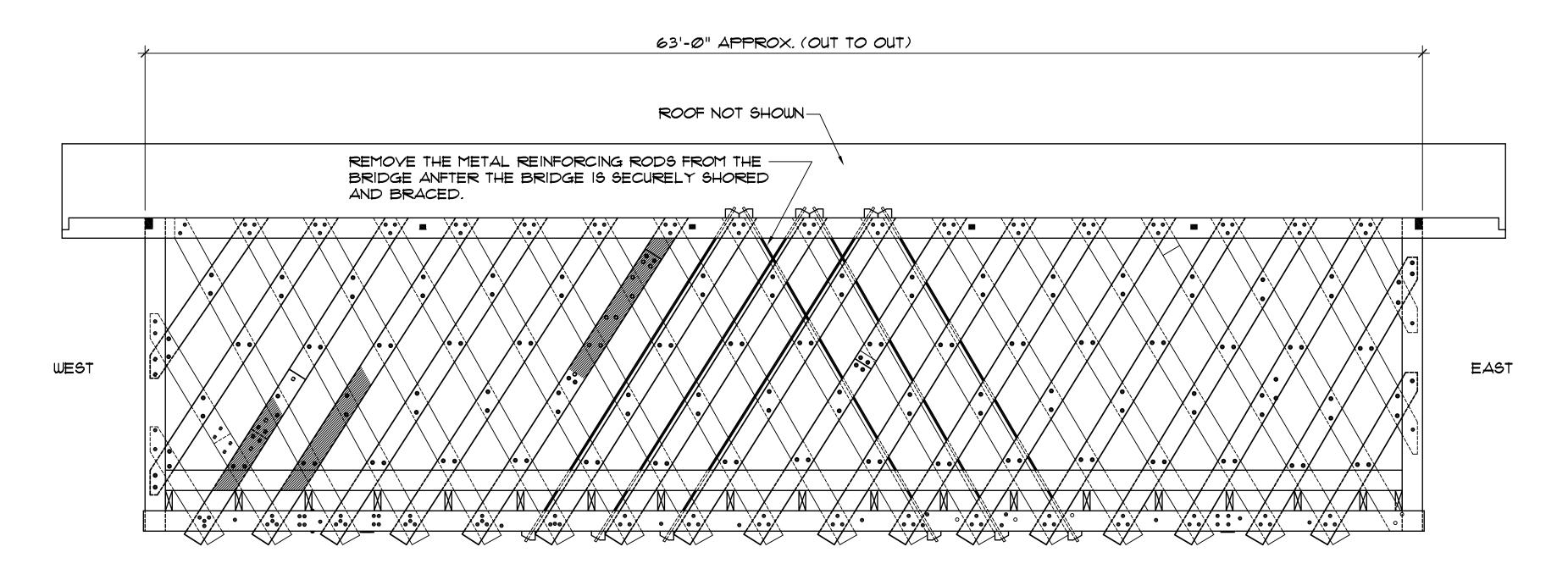
3-248.0

DCF

DCF

SR-1

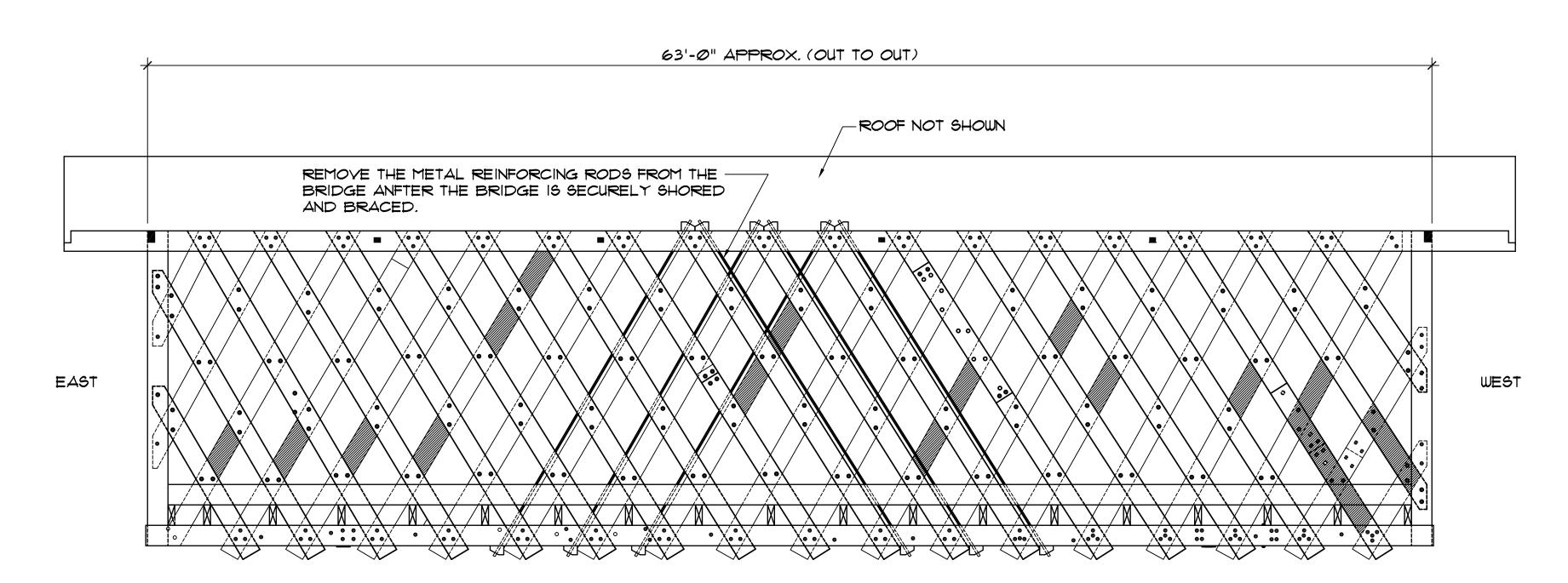
DRAWING NO.
24366



EXISTING BRIDGE TRUSS ELEVATION- SOUTH FACE OF THE NORTH TRUSS

THE SHADED PORTIONS OF THE LATTICE INDICATE
"FILLER" PIECES OR SCABS BOLTED TO THE LATTICE
TO REPAIR BREAKS OR MEMBERS WITH LARGE KNOTS
OR OTHER STRENGTH REDUCING CHARACTERISTICS.

THESE MAY REMAIN, AS THEY ARE PART OF THE HISTORY OF THE BRIDGE.



EXISTING BRIDGE TRUSS ELEVATION- NORTH FACE OF THE SOUTH TRUSS

THE SHADED PORTIONS OF THE LATTICE INDICATE
"FILLER" PIECES OR SCABS BOLTED TO THE LATTICE
TO REPAIR BREAKS OR MEMBERS WITH LARGE KNOTS
OR OTHER STRENGTH REDUCING CHARACTERISTICS.

THESE MAY REMAIN, AS THEY ARE PART OF THE HISTORY OF THE BRIDGE.

PARTIAL TIMBER LIST						
LOCATION	S1;	ZE < IN.	GRADE NO.	SPECIES	TREATMENT	MOISTURE CONTENT
TOP CHORD	3	12	NO. 1	POPLAR OR OAK		14 %
BOTTOM CHORD	3	12	NO. 1	POPLAR OR OAK		14 %
LATTICE	3	12	NO. 1	POPLAR OR OAK		14 %
COMMON RAFTERS	3	6	NO. 2	POPLAR OR OAK		16 %
FLOOR BEAM	5	16	NO. 1D	SOUTHERN PINE		16 %
SIDING	1	10	NO. 1	HEMLOCK		10 %
BOLSTER BEAMS	10	14	NO. 1	SOUTHERN PINE	CREOSOTE	23 %
BENTS	12	12	NO. 1	SOUTHERN PINE	CREOSOTE	23 %
BED TIMBERS	12	12	NO. 1	SOUTHERN PINE	CREOSOTE	23 %
UPPER LATERAL BRACING	6	6	NO. 1	OAK, OR S. PINE, OR D. FIR		14 %
KNEE BRACES	4"	5"	NO. 1D	S. PINE OR D. FIR		12 %
TIE BEAM	6	14	NO. ID	OAK		16 %
LOWER LATERAL BRACING	6	6	NO. 1	OAK, OR S. PINE, OR D. FIR		14 %
PRINCIPAL RAFTERS	6	8	NO. 1	OAK, OR S. PINE, OR D. FIR		14 %

NOTES:

MEMBERS DESIGNATED 3x8, 6x8 (ETC.) SHALL BE FURNISHED IN STANDARD SIZES, E.G. 2 1/2"x5 1/2", 5 1/2"x7 1/2" (ETC.) UNLESS OTHERWISE NOTED.

MEMBERS DESIGNATED AS 2"x6", 5"x5" (ETC.) SHALL BE FURNISHED FULL DIMENSION AS INDICATED.

TIMBER FOR LATTICE AND CHORD MEMBERS SHALL HAVE A BAND SAWED FINISH.

REPLACEMENT TRUNNELS (PINS) SHALL CONSIST OF HARD WHITE OAK WITH A UNIFORM MOISTURE CONTENT EQUAL TO THE EXISTING TRUNNELS IN THE BRIDGE.

PRESSURE TREAT THE BENTS, BOLSTER BEAMS AND BED TIMBERS IN ACCORDANCE WITH AWPA STANDARD C14-94 FOR ABOVE GROUND, SOIL AND FRESH WATER USE WITH CREOSOTE (PI/PI3) TO A RETENTION OF 12.0 PCF. THE CREOSOTE SOLUTION MUST NOT EXCEED A LEVEL OF 0.50 XYLENE INSOLUBLE. PRESSURE TREAT AFTER FABRICATION AND PRIOR TO ASSEMBLY OF THE BENTS.

THE BASE DRAWINGS USED TO PRODUCE THESE CONSTRUCTION DRAWINGS WERE PREPARED BY BRIGHTON A&E INC. OF FRANKFORT, KENTUCKY IN AUGUST, 1998

NOTE: Dimensions shown on the plans are for information and estimating purposes only. It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to ordering material and construction.



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DETAILED BY:	CG, DCF		DC	F	
DESIGNED BY:	DCF		DC	F	
DATE:	May 2005		CHECKE	D BY	

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

FLEMING

ROUTE Goddard Covered Bridge

EXISTING BRIDGE ELEVATION

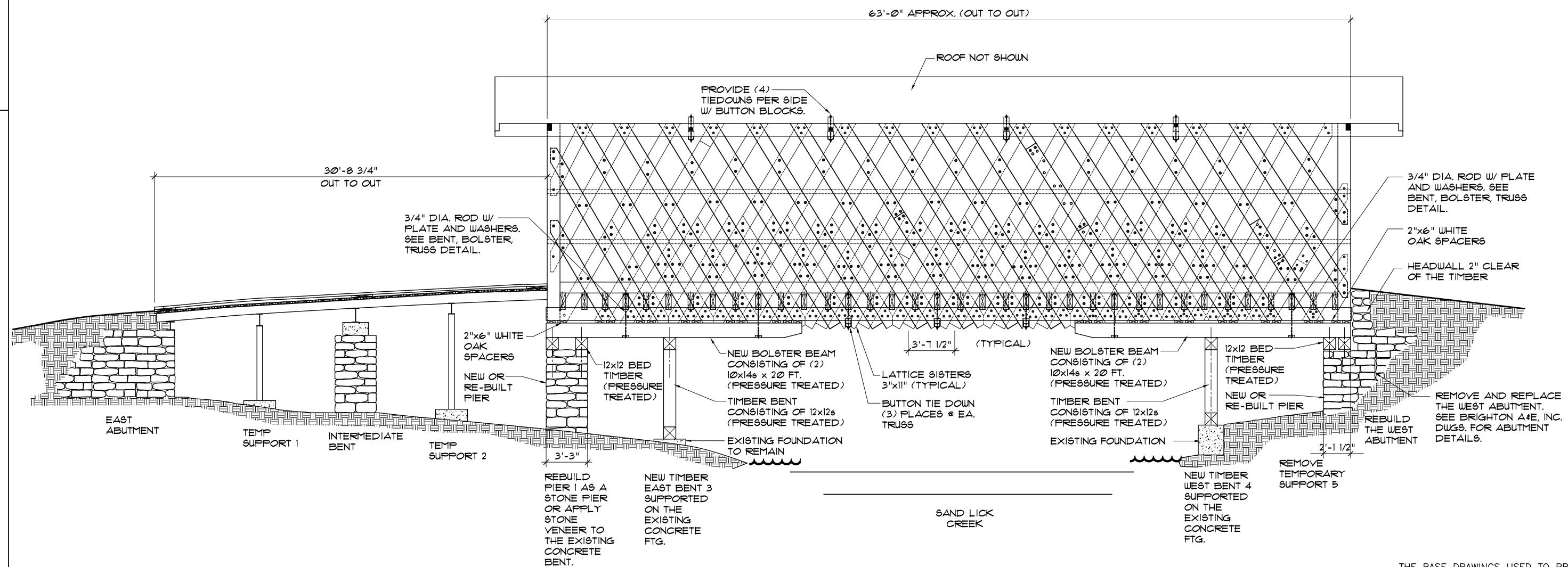
ITEM NUMBER

3-248.0

DCF Engin

DCF Engineering, Inc.
PO Box 879 • 109 Brady Ct. • Cary, NC 27512-0879

SR-2 DRAWING NO. 24366



NOTES:

MEMBERS DESIGNATED 3x8, 6x8 (ETC.) SHALL BE FURNISHED IN STANDARD SIZES, E.G. 2 1/2"x5 1/2", 5 1/2"x7 1/2" (ETC.) UNLESS OTHERWISE NOTED.

MEMBERS DESIGNATED AS 2"x6", 5"x5" (ETC.) SHALL BE FURNISHED FULL DIMENSION AS INDICATED.

CAREFULLY HANDLE, TRANSPORT, AND STORE THE EXISTING SIDING AS IT IS REMOVED FOR BRIDGE REPAIRS. RE-INSTALL IN SIMILAR FASHION TO THE EXISTING LAYUP, PROVIDING A NOMINAL GAP (1/8" TO 3/16" MATCH EXISTING) BETWEEN BOARDS. DETERIORATED, BROKEN, OR OTHERWISE DAMAGED SIDE BOARDING SHALL BE REPLACED IN KIND. ALLOW FOR SHRINKAGE IN THE LAYUP OF NEW BOARDS.

ROOFING NAILERS AND MISCELLANEOUS BLOCKING MAY BE REUSED WHEREVER POSSIBLE.

REPLACE UPPER CHORD MATERIAL IN ACCORDANCE WITH THE BRIGHTON A&E INC. DETAILS OR A INDICATED BY AN IN-DEPT SURVEY OF THE TOP CHORDS WITH THE BRIDGE SUSPENDED BY THE STEEL NEEDLE BEAMS AND CARRYING BEAMS.

REPLACE THE UPPER LATERAL BRACING AS INDICATED IN THESE DRAWINGS.

REPLACE THE EXISTING ROOFING WITH 57 METAL ROOFING OF THE SAME MATERIAL, GAGE, AND FINISH AS THE EXISTING ROOF SYSTEM.

FABRICATE THE BUTTON CONNECTIONS FROM 6x8 DENSE SOUTHERN PINE OR WHITE OAK (CONTRACTOR'S OPTION).

PROPOSED BRIDGE ELEVATION

THE BASE DRAWINGS USED TO PRODUCE THESE CONSTRUCTION DRAWINGS WERE PREPARED BY BRIGHTON A&E INC. OF FRANKFORT, KENTUCKY IN AUGUST,

NOTE: Dimensions shown on the plans are for information and estimating purposes only. It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to ordering material and construction.



	7 / 7	C TZ 1 1
DETAILED BY:	CG, DCF	DCF
DESIGNED BY:	DCF	DCF
DATE:	May 2005	CHECKED BY

|Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

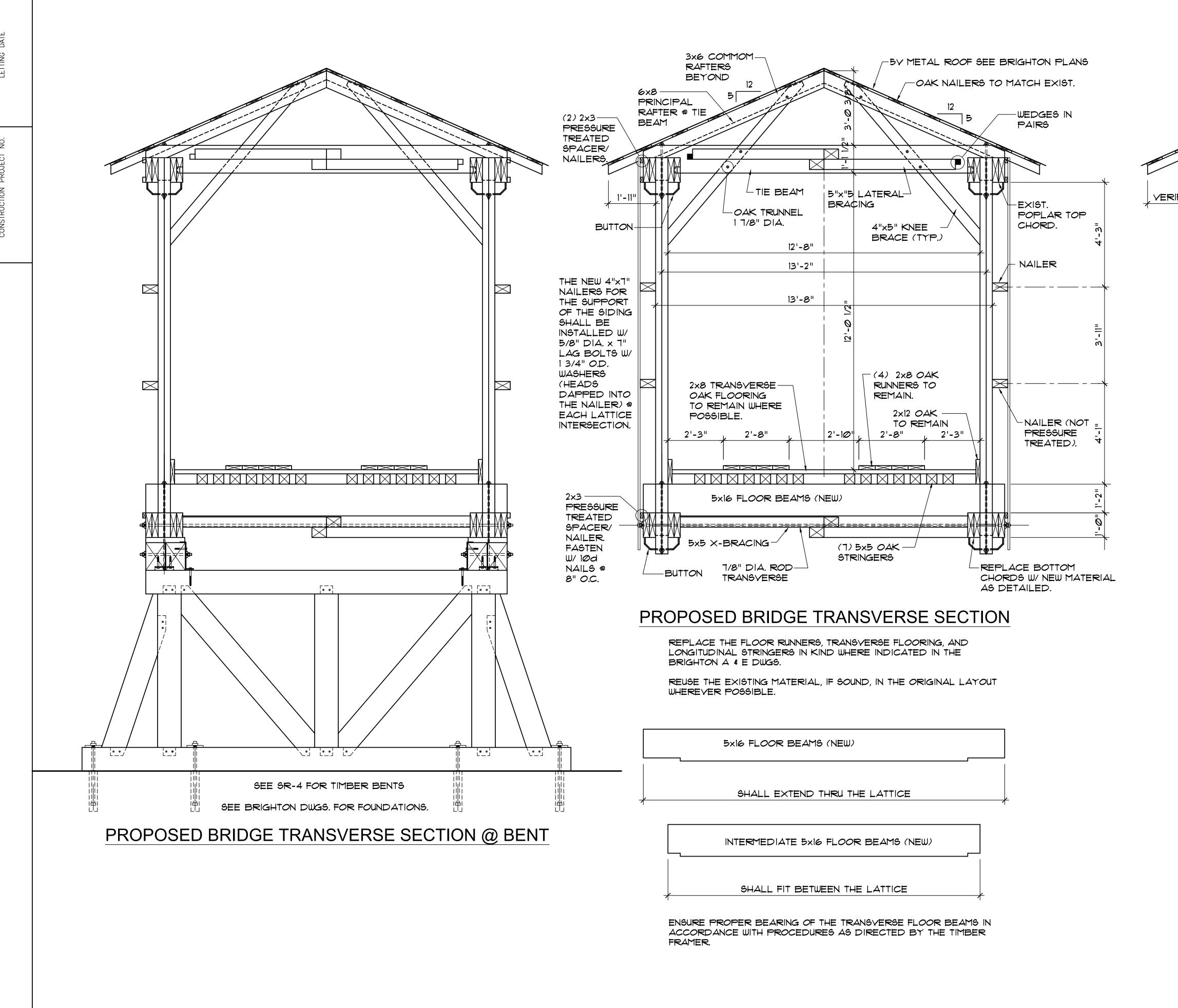
Goddard Covered Bridge PROPOSED BRIDGE ELEVATION

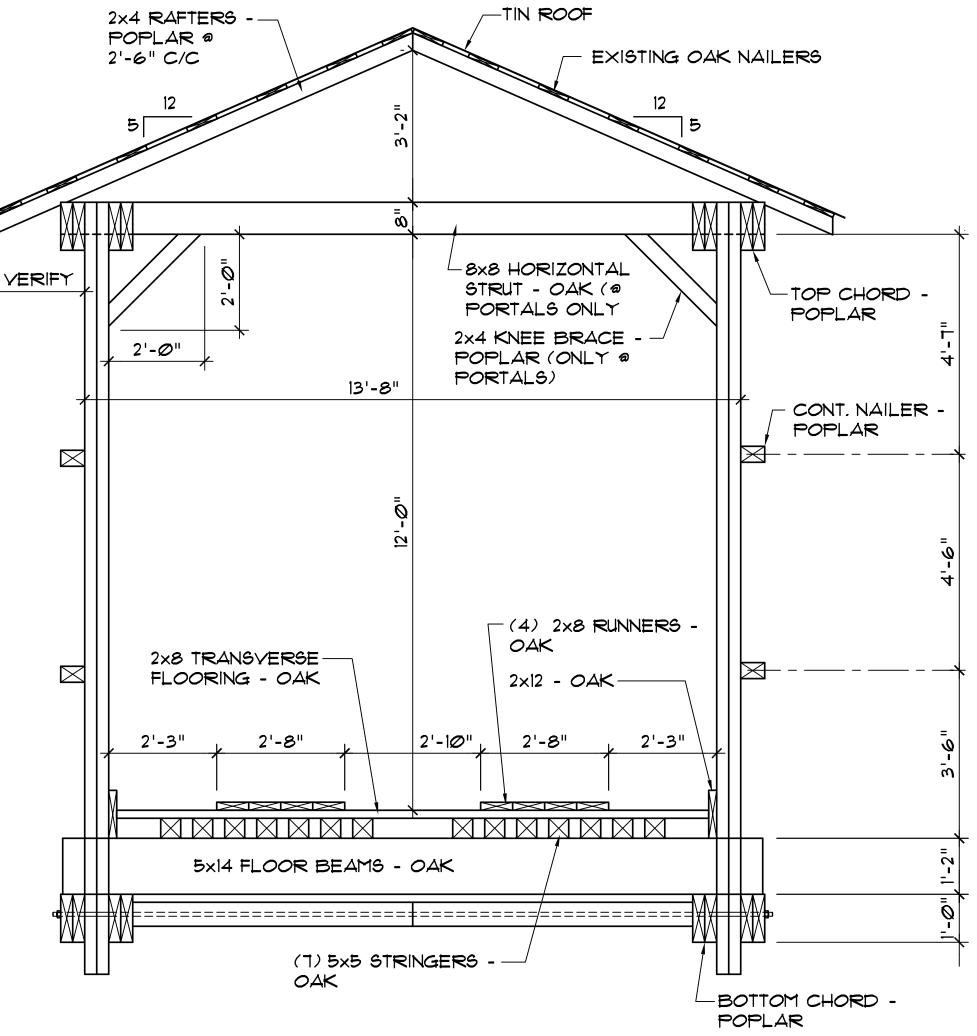
ITEM NUMBER

PO Box 879 • 109 Brady Ct. • Cary, NC 27512-0879

3 - 248.0

SR-3 DRAWING NO. 24366





EXISTING BRIDGE TRANSVERSE SECTION

THE BASE DRAWINGS USED TO PRODUCE THESE CONSTRUCTION DRAWINGS WERE PREPARED BY BRIGHTON A&E INC. OF FRANKFORT, KENTUCKY IN AUGUST, 1998

NOTE: Dimensions shown on the plans are for information and estimating purposes only. It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to ordering material and construction.



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DETAILED BY:	CG, DCF	D	CF.
DESIGNED BY:	DCF	DO	CF
DATE: N	May 2005	CHECK	(ED BY

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS

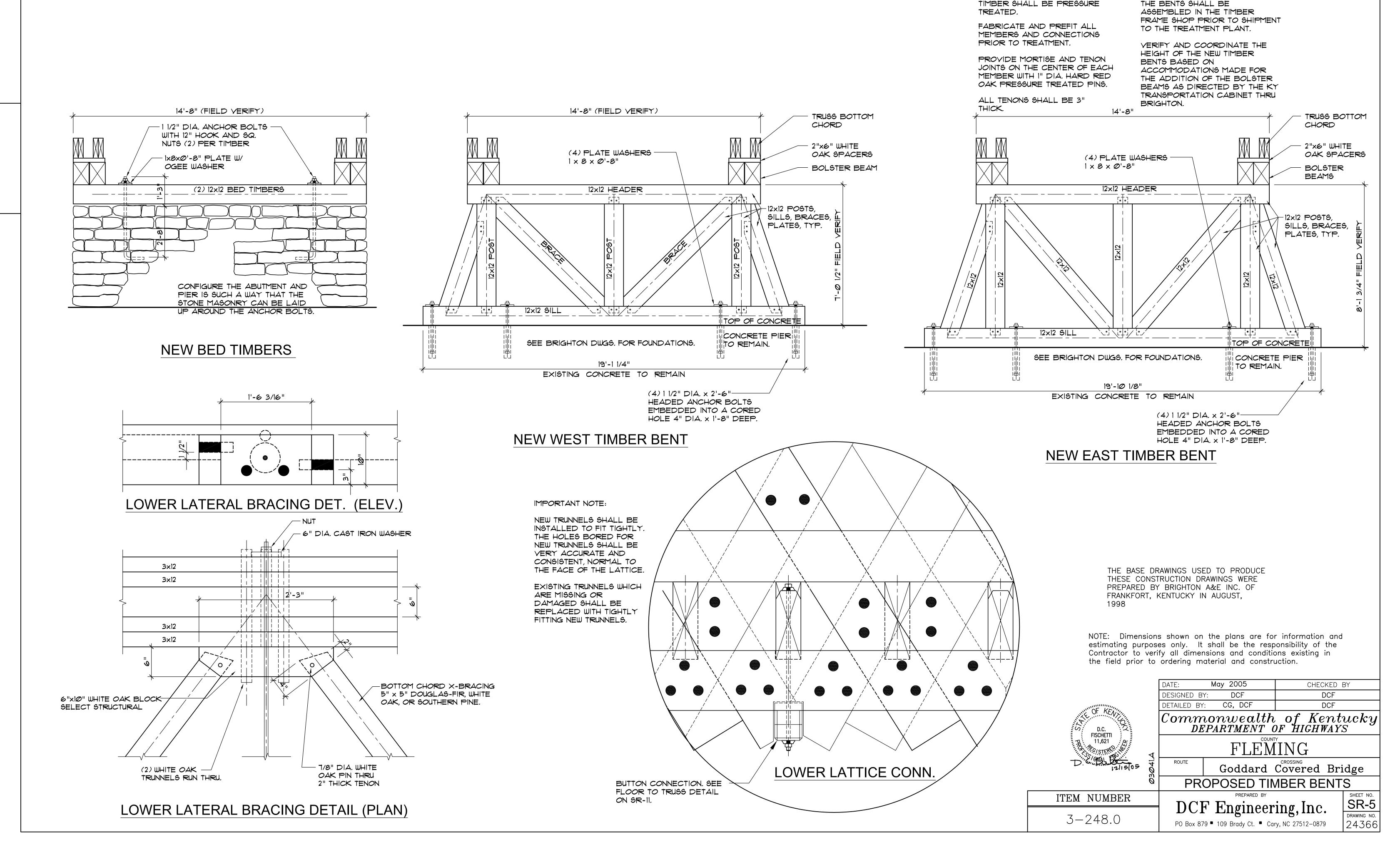
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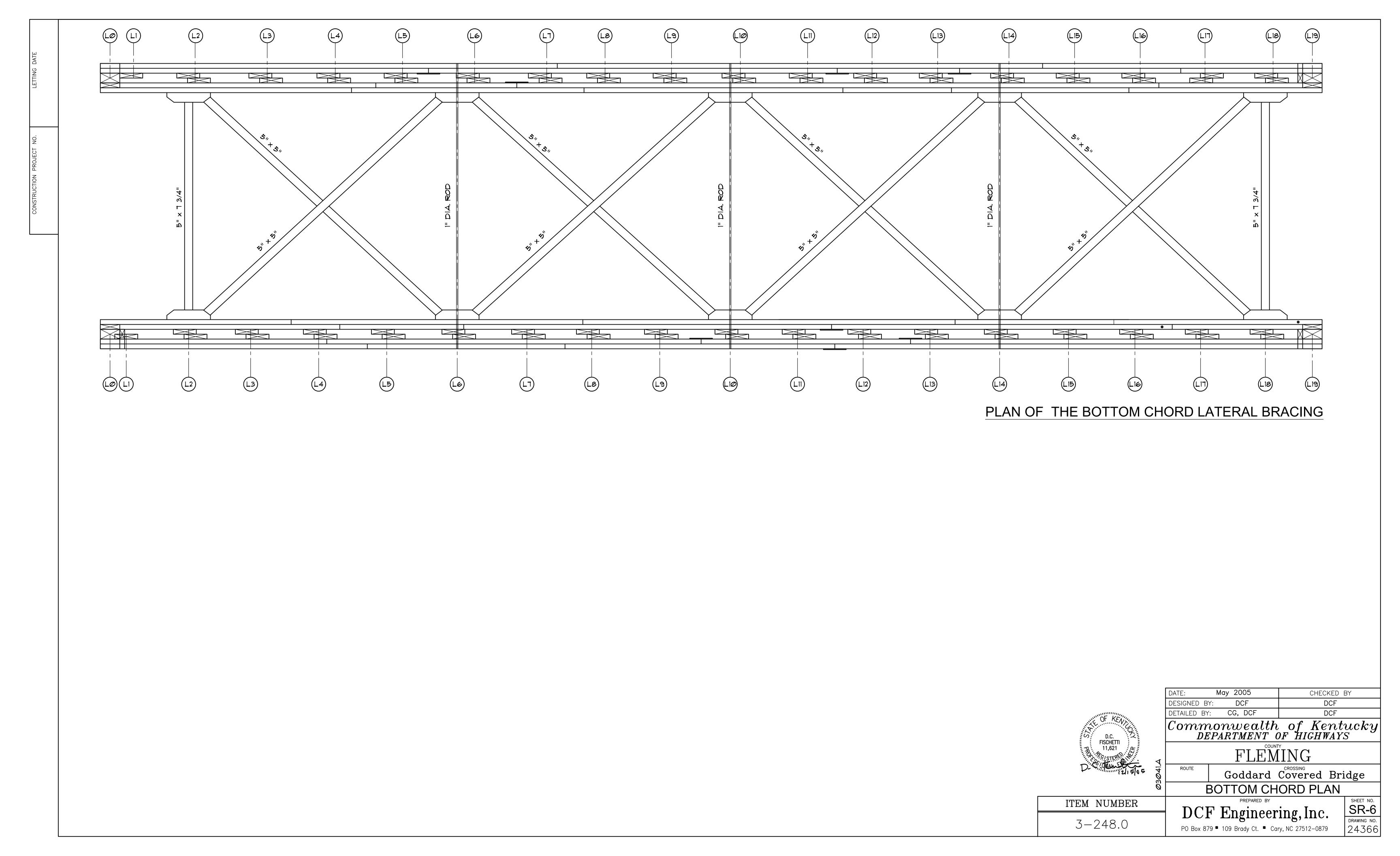
Goddard Covered Bridge
TYPICAL BRIDGE CROSS SECTIONS

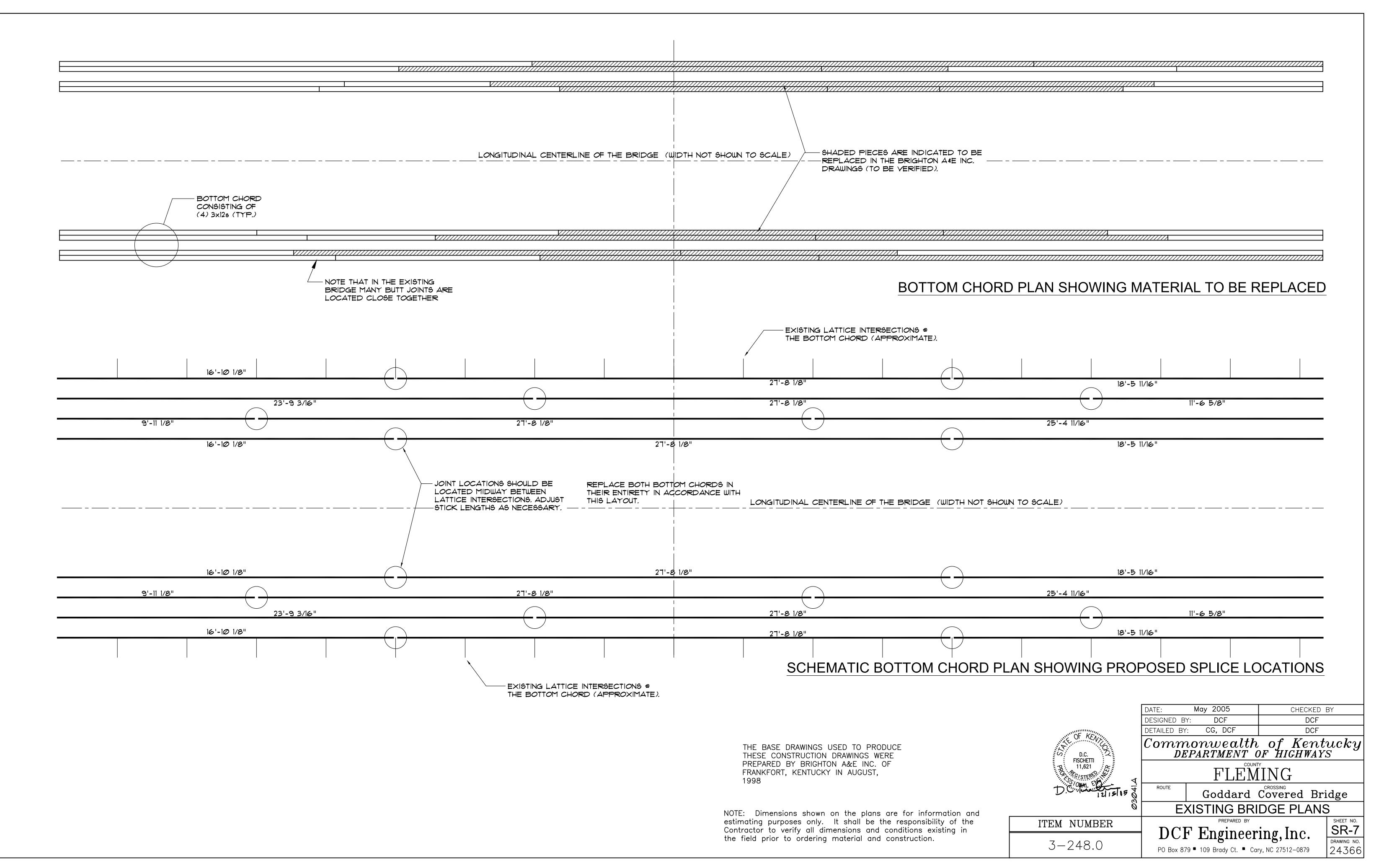
ITEM NUMBER

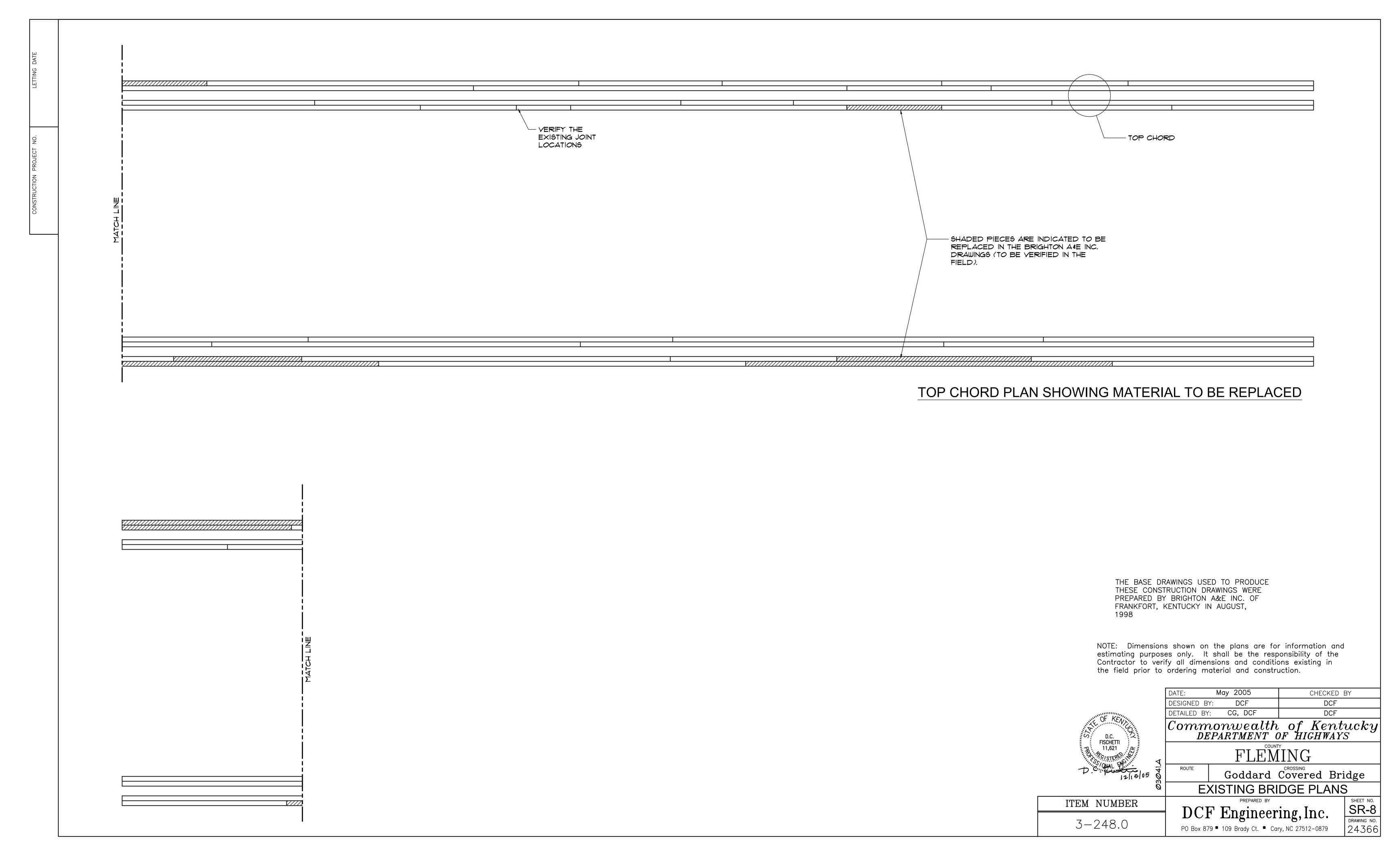
DCF Engineering, Inc.
PO Box 879 • 109 Brady Ct. • Cary, NC 27512-0879

SR-4
DRAWING NO.
24366

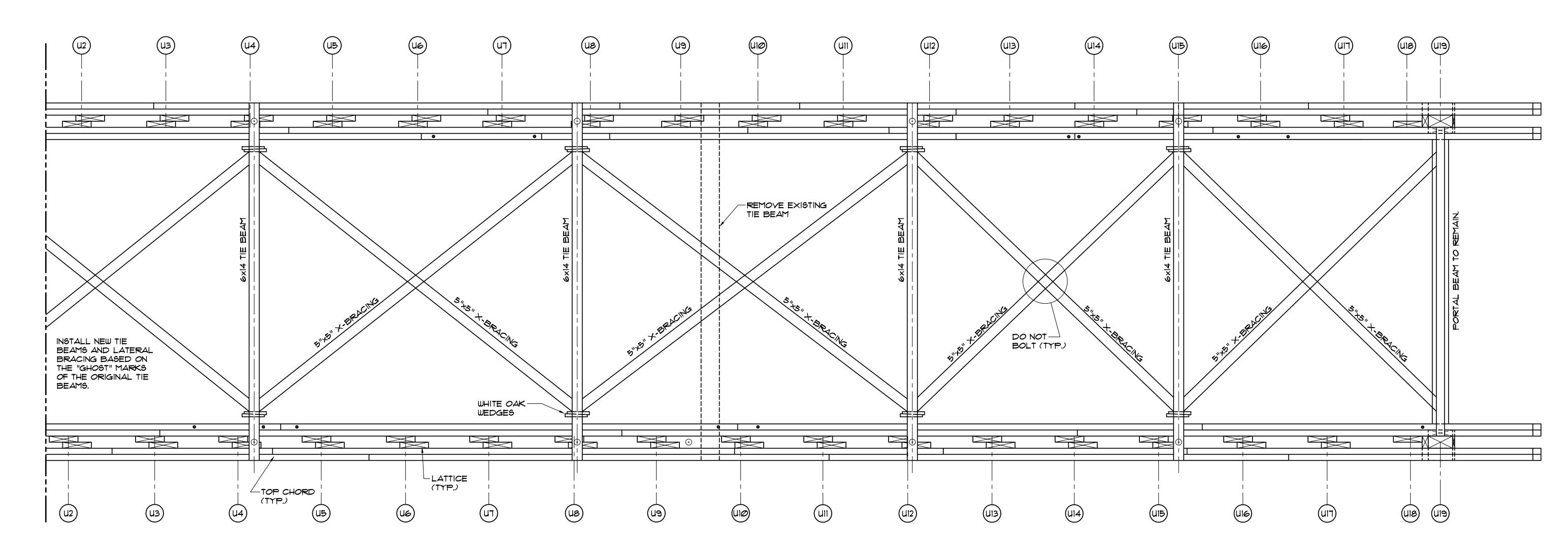






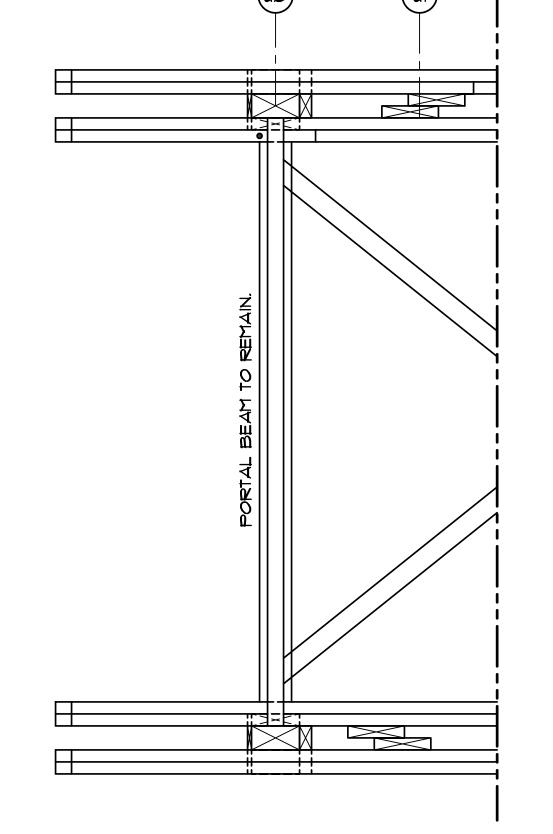






TOP CHORD TIE BEAMS AND LATERAL BRACING PLAN

REPLACE THE UPPER LATERAL BRACING WITH SOUTHERN PINE, DOUGLAS FIR, OR WHITE OAK (CONTRACTOR'S OPTION).



	DATE:	May 2005	CHECKED BY
	DESIGNED BY:	DCF	DCF
TOE VAN	DETAILED BY:	CG, DCF	DCF
D.C. FISCHETTI	Commo	nwealth ARTMENT (of Kentuck OF HIGHWAYS
FISCHETTI : E		OOLINIT	·

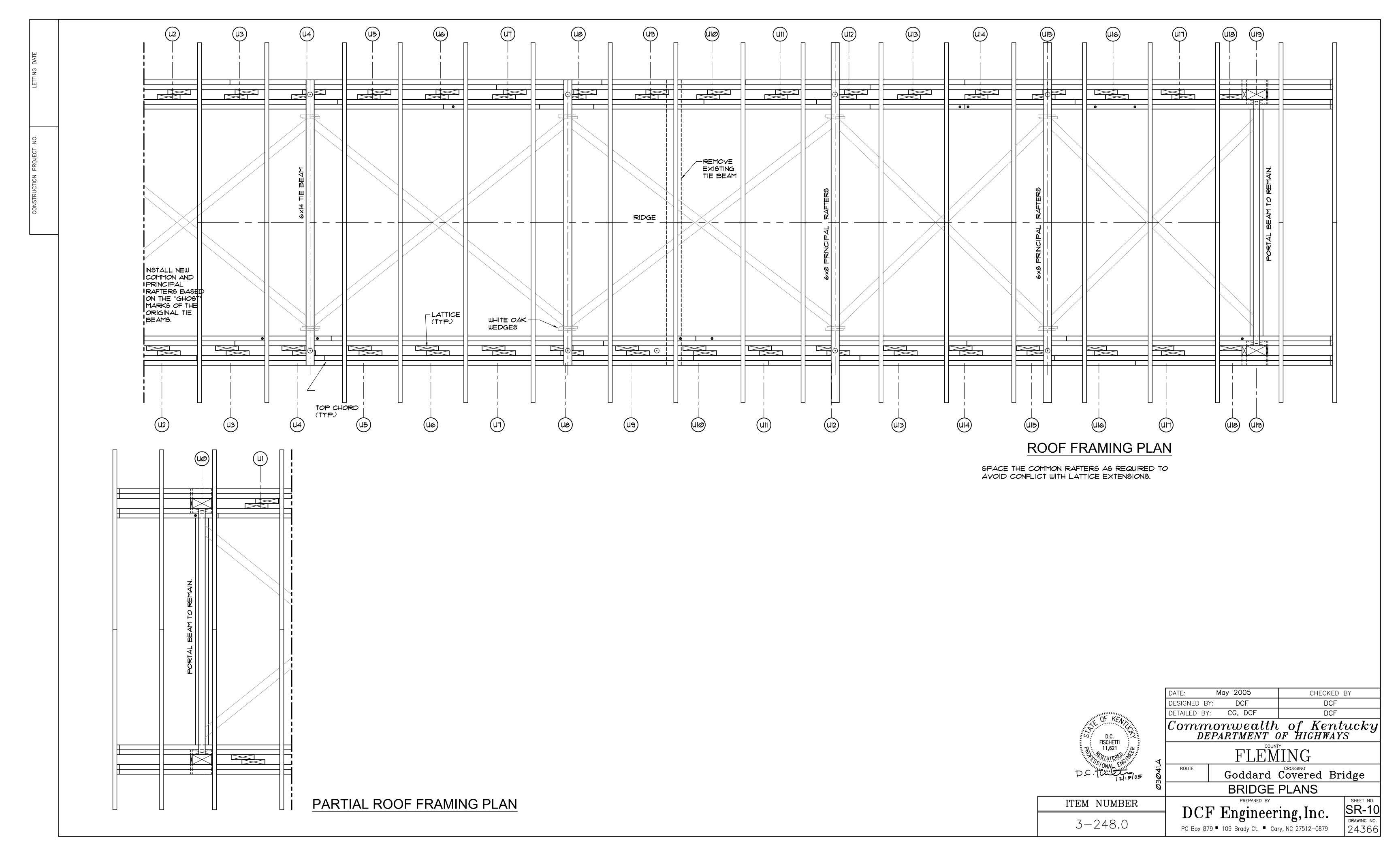
FLEMING

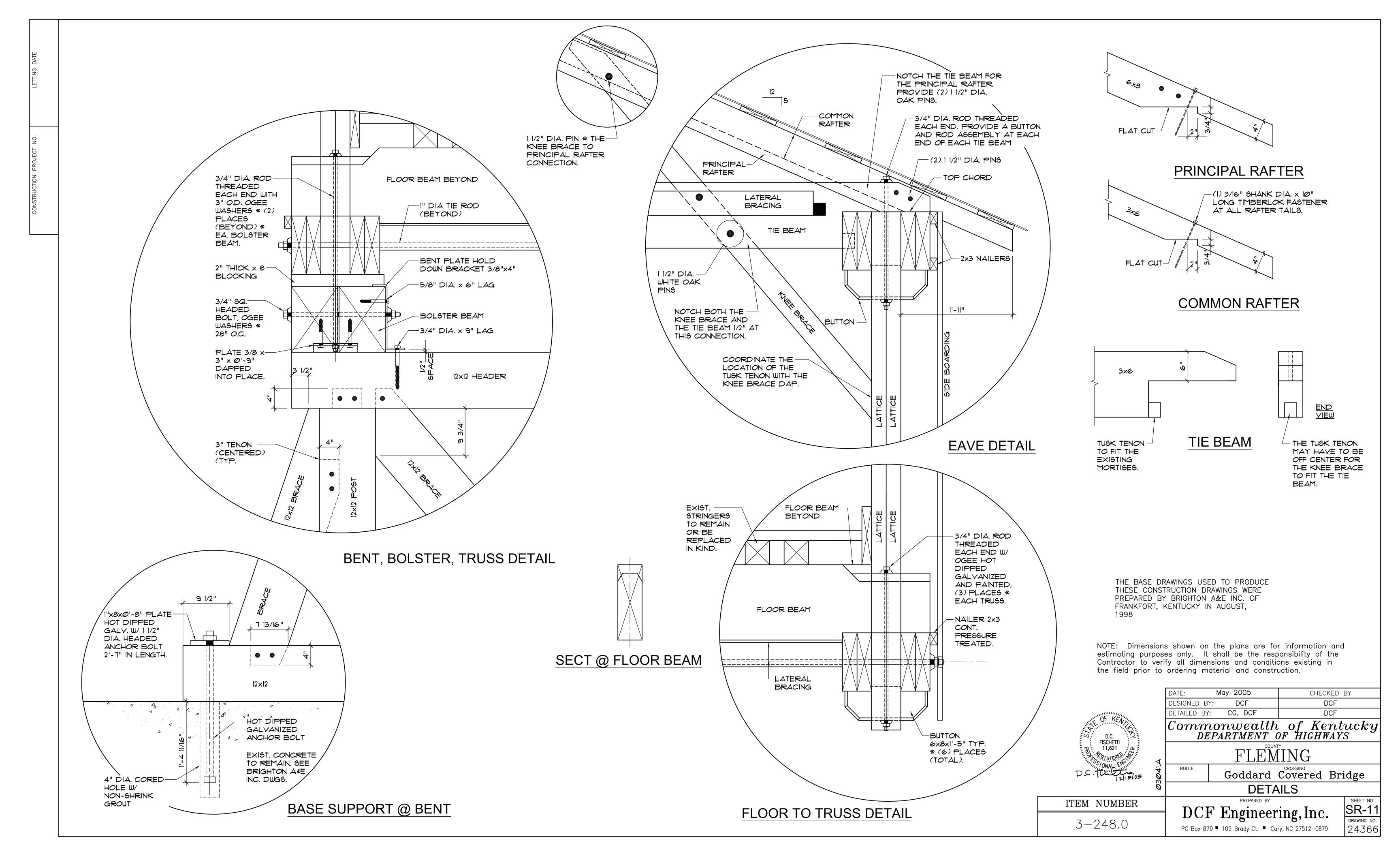
Goddard Covered Bridge BRIDGE PLANS

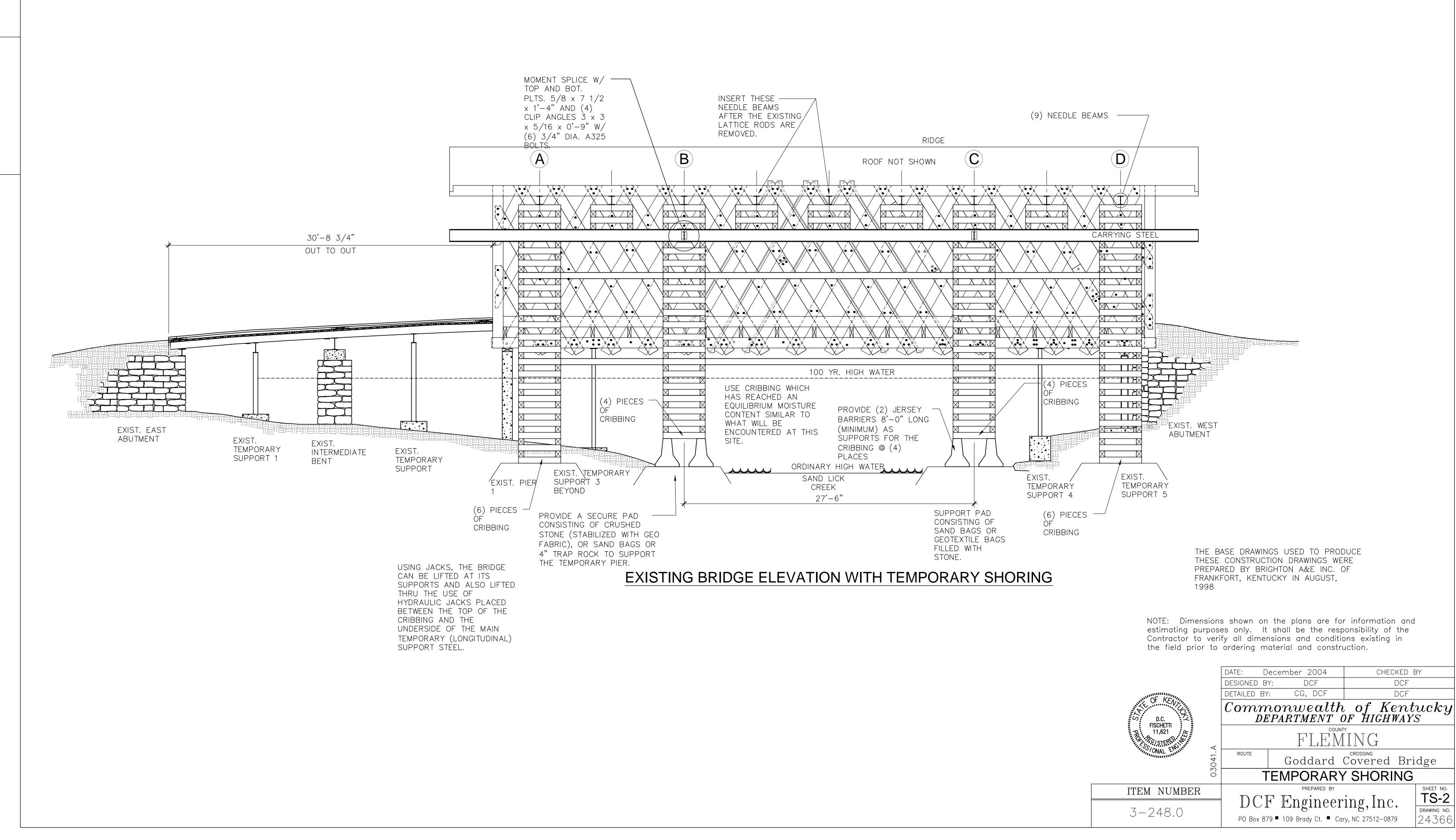
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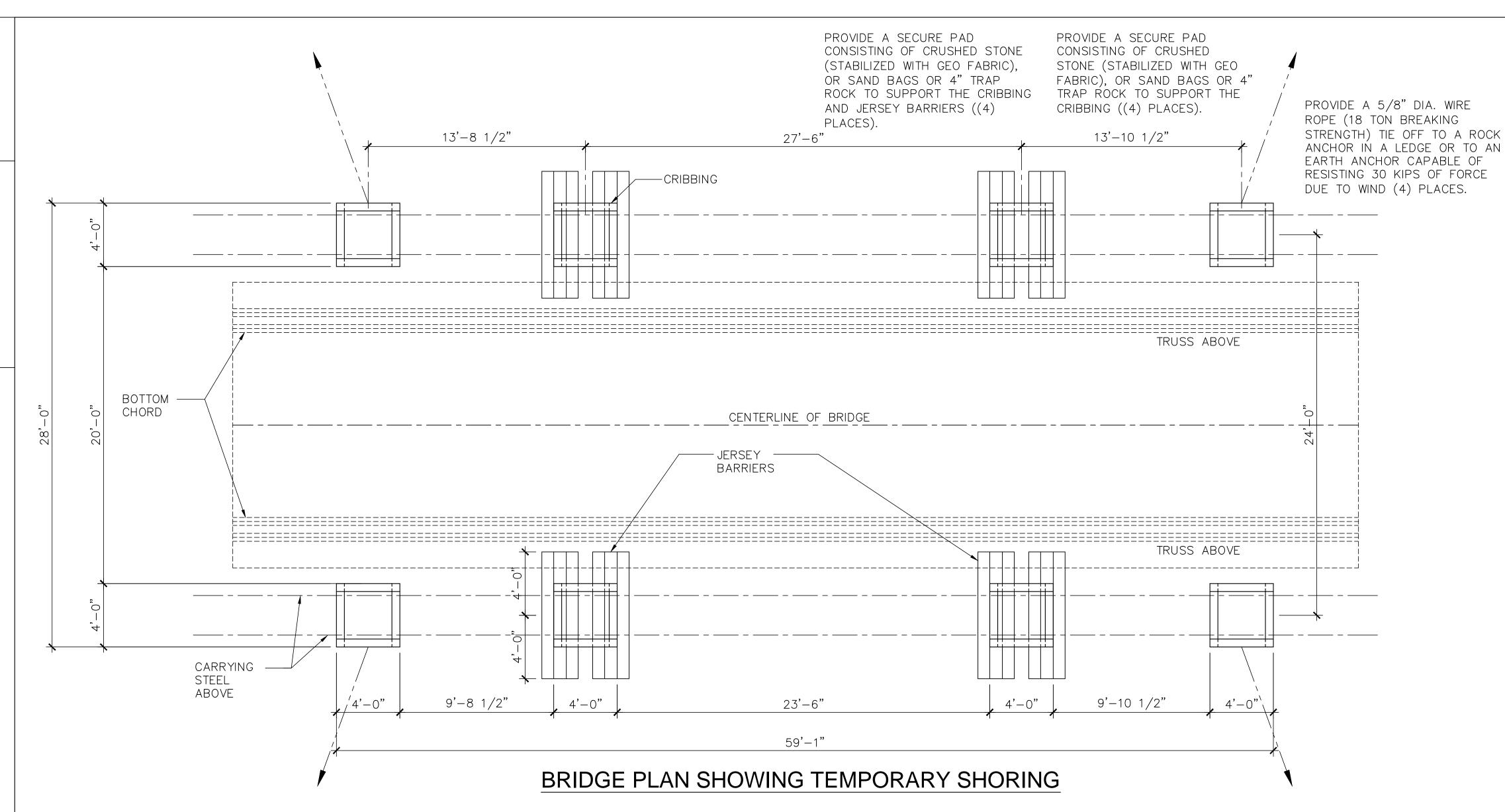
DCF Engineering, Inc. PO Box 879 • 109 Brady Ct. • Cary, NC 27512-0879

SHEET NO.
SR-9
DRAWING NO.
24366









REQUIREMENTS FOR TEMPORARY TIEDOWN EARTH ANCHORS

1. SOILS INVESTIGATION REPORT

A FOUNDATION ANALYSIS REPORT SHALL BE PROVIDED. THE FOUNDATION ANALYSIS REPORT SHALL INCLUDE RECOMMENDED SOILS ENGINEERING CRITERIA WHICH WILL ENABLE THE STRUCTURAL ENGINEER TO VERIFY THE SIZE, DEPTH, LOCATION, AND CAPACITY OF THE EARTH ANCHORS, AND ASSIST THE CONTRACTOR TO SELECT A SATISFACTORY METHOD OF INSTALLATION.

2. ANCHOR INSTALLATION

- A. IT IS SUGGESTED THAT THE INSTALLER CONTACT FORESIGHT PRODUCTS ENGINEERING DEPARTMENT AT 1-800-325-5360 FOR INSTALLATION RECOMMENDATIONS.
- B. THE INDEPENDENT TESTING LABORATORY, SHALL VERIFY THAT THE SIZE, DEPTH AND LOCATION OF EACH INSTALLED ANCHOR COMPLIES WITH THE APPROVED PLANS. A LOG OF DEPTH READINGS FOR EACH ANCHOR SHALL BE AVAILABLE FOR THE STRUCTURAL ENGINEER. THIS SHALL NOT WAIVE INSPECTIONS BY THE LOCAL BUILDING INSPECTOR WHICH MAY BE REQUIRED.
- C. THE INDEPENDENT TESTING LABORATORY SHALL POST WRITTEN CERTIFICATION AT THE JOB SITE STATING THAT THE SOIL CONDITIONS ENCOUNTERED AT EACH ANCHOR IS IN CONFORMANCE WITH THE CONDITIONS REQUIRED BY THE GEOTECHNICAL REPORT FOR PROPER INSTALLATION.
- D. ANCHORS SHALL BE INSTALLED AT THE LOCATIONS AND ANGLES SHOWN ON THE PROJECT PLANS.
- E. ALL ANCHORS SHALL MEET THE MINIMUM EMBEDMENT LENGTH (ALONG THE AXIS OF THE ANCHOR ROD) SPECIFIED ON THE PROJECT PLANS AFTER THE PROOF TEST AS SPECIFIED BELOW. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO DRIVE THE ANCHORS TO A SUFFICIENT DEPTH PRIOR TO PROOF TESTING SUCH THAT THE ANCHORS WILL MEET THIS MINIMUM EMBEDMENT LENGTH AFTER THE PROOF TEST.

- F. ALL ANCHORS SHALL BE PROOF TESTED ALONG THE AXIS OF THE ANCHOR ROD TO THE MINIMUM PROOF TEST SPECIFIED ON THE PROJECT PLANS. THE PROOF TEST LOAD SHALL BE HELD FOR A PERIOD OF ONE MINUTE DURING WHICH TIME THE MOVEMENT OF THE ANCHOR SHALL NOT EXCEED 1/2 INCH.
- G. THE INSTALLER MUST KEEP A RECORD OF INSTALLATION AND TEST FOR EACH ANCHOR THAT RECORDS THE ANCHOR SPECIFICS (ANCHOR AND ROD MODEL, INSTALLATION ANGLE), PROOF TEST RESULTS, FINAL EMBEDMENT LENGTH.
- H. THE PROOF TESTING DEVICE SHALL HAVE BEEN CALIBRATED OR "LOAD VERIFIED" WITHIN THE PAST 1 YEAR. IT SHALL BE THE RESPONSIBILITY OF THE INSTALLER TO SUPPLY THE CALIBRATION OR LOAD VERIFICATION CERTIFICATE.
- I. THE INSTALLER MAY SUBSTITUTE A DIFFERENT SIZE ANCHOR HEAD AS IS APPROPRIATE FOR SOIL CONDITIONS PROVIDED THAT ALL OF THE ABOVE CRITERIA ARE MET.

3. ANCHOR MATERIAL

A. EARTH ANCHORS SHALL BE AS MANUFACTURED BY FORESIGHT PRODUCTS, LLC OF COMMERCE CITY, CO. THE ANCHOR TO BE USED SHALL BE THE STINGRAY MODEL, SR-1 HEAVY-DUTY EARTH ANCHOR THAT CAN RESIST UP TO 66 KIPS OF PULL-OUT FORCE.

CONTACT:

ACF ENVIRONMENTAL 2831 CARDWELL RD. RICHMOND, VA 23234 (804) 330-5641 (800) 448-3636 info@acfenvironmental.com INSTALLED WITH A JACK-HAMMER OR OTHER PNEUMATIC DRIVER, STINGRAY ANCHORS SHALL BE LOCKED AND TESTED ON-SITE TO MEET REQUIRED DESIGN LOAD.

- B. THE ANCHOR MATERIAL IS MANUFACTURED OF MILD STEEL OR HIGH TENSILE STEEL. FOR STEEL WITH AN FY GREATER THAN 36,000 PSI, THE MANUFACTURER SHALL FURNISH A CERTIFICATION OF THE MATERIAL PROPERTIES.
- C. ATTACHMENT HARDWARE CONSISTING OF WASHERS, BEVELED WASHERS, STEEL PLATES AND NUTS OR EYENUTS SHALL BE COMPATIBLE WITH THE ANCHOR RODS IN TERMS OF FIT, FUNCTION AND STRENGTH.
- D. BOTH THE ROD AND THE NUT ARE TO BE FREE OF MILL SCALE.
- E. MINIMUM ULTIMATE TENSILE STRENGTH OF THE ANCHOR AND ITS COMPONENTS (INCLUDING THE ANCHORED AND ATTACHMENT HARDWARE) SHALL BE 100 KIPS.
- F. ALL COMPONENTS OF THE EARTH ANCHOR SHALL BE HOT DIP GALVANIZED PER ASTM A-123 / ASTM A-153.
- G. ANCHOR RODS SHALL BE 1 3/4" DIAMETER, ASTM A-615 GRADE 75, HOT DIPPED GALVANIZED PER ASTM A-153.

NOTES FOR THE TEMPORARY TIEDOWN EARTH ANCHORS

HOLDING CAPACITY WITHOUT GROUT=
29 TO 41 KIPS AT 16.4 FT. DEPTH IN
MEDIUM DENSE SANDY GRAVEL OR
VERY STIFF TO HARD SILTS AND
CLAYS WITH BLOW COUNT (N) =
24-40
PILOT HOLE DIAMETER= 6 IN. ONLY
WHEN REQUIRED IN VERY HARD SOILS.

FORESIGHT PRODUCTS, LLC 6430 EAST 49TH DRIVE COMMERCE CITY, CO 80022 USA PHONE: (303) 286-8955 FAX: (303) 287-3866 WWW.EARTHANCHOR.COM

SEE OTHER REQUIREMENTS, THIS SHEET.

DESCRIPTION: IMPACT, TRACK DRILL, OR VIBRATION DRIVEN SOIL ANCHOR.

ANCHOR WIDTH= 7"

ANCHOR LENGTH= 21.0"

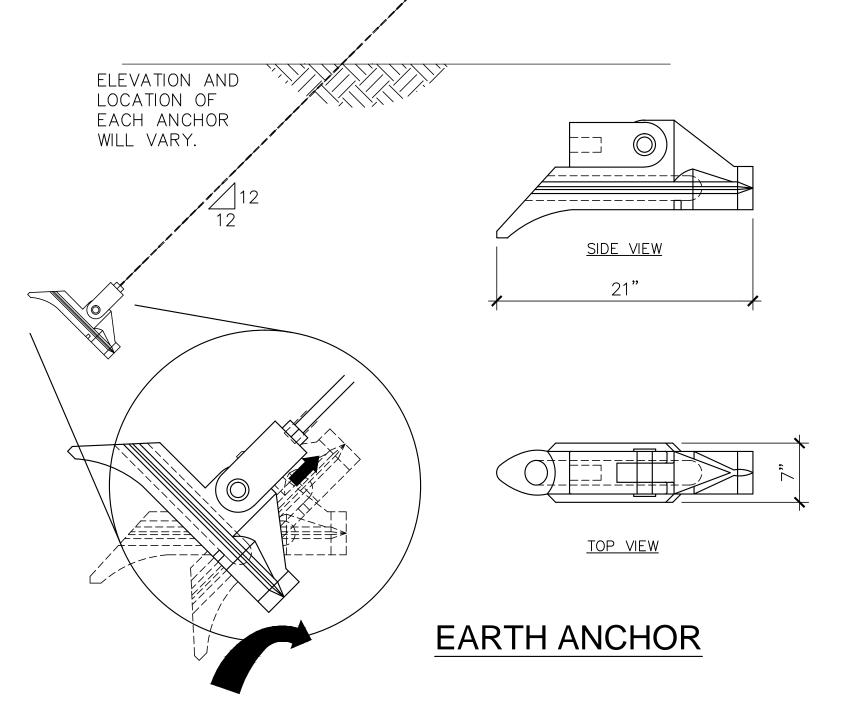
BEARING AREA = 115 SQ. INCHES

ANCHOR WEIGHT: 47 LBS

ANCHOR RODS: SCR-10 SOLID CORE ROD (OTHERS MAY BE AVAILABLE, CONSULT FORESIGHT).

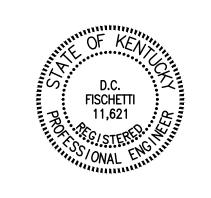
INSTALLATION DEPTH= 15 TO 50 FT.

YIELD STRENGTH= 75 KIPS
ULTIMATE STRENGTH= 100 KIPS
WORKING LOAD= UP TO 66 KIPS



THE BASE DRAWINGS USED TO PRODUCE THESE CONSTRUCTION DRAWINGS WERE PREPARED BY BRIGHTON A&E INC. OF FRANKFORT, KENTUCKY IN AUGUST, 1998

NOTE: Dimensions shown on the plans are for information and estimating purposes only. It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to ordering material and construction.



DATE: December 2004 CHECKED BY

DESIGNED BY: DCF

DETAILED BY: CG, DCF

OF TEATLEST TO THE CONTROL TO THE CONTR

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

ROUTE CROSSING

CR3110 Goddard Covered Bridge

ITEM NUMBER

PREPARED BY

PREPARED BY

3-248.0

DCF Engineering, Inc.
PO Box 879 • 109 Brady Ct. • Cary, NC 27512-0879

TS-3
DRAWING NO.
24366

