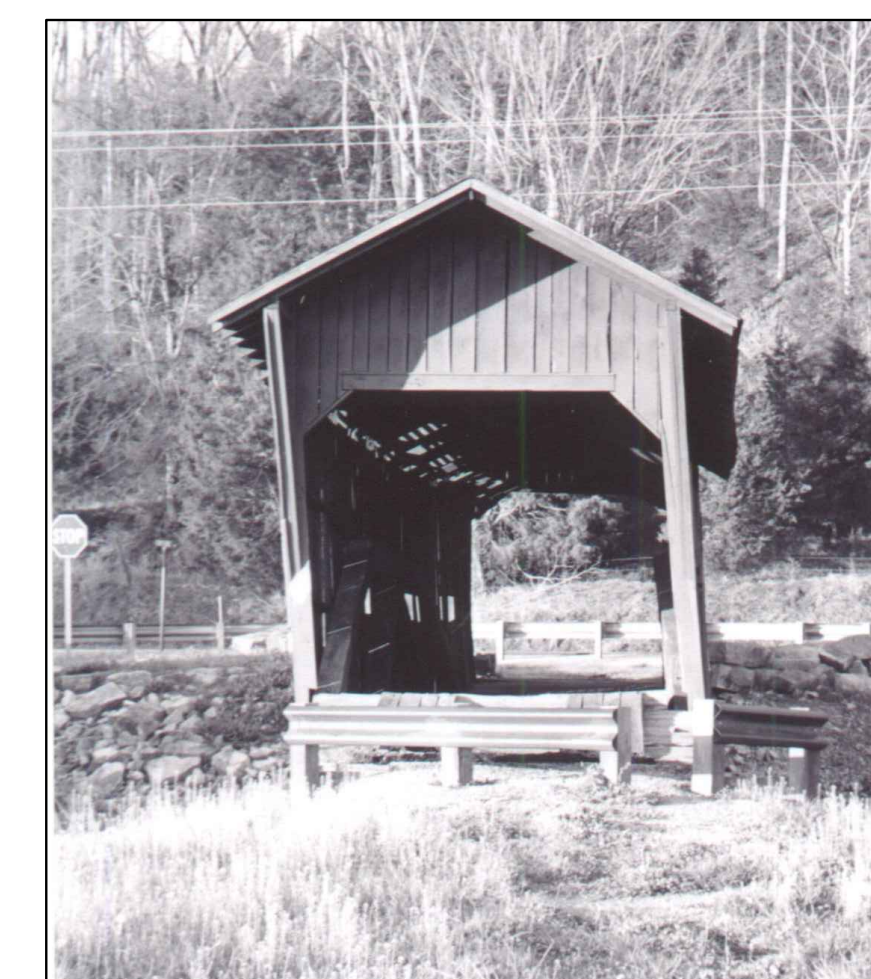
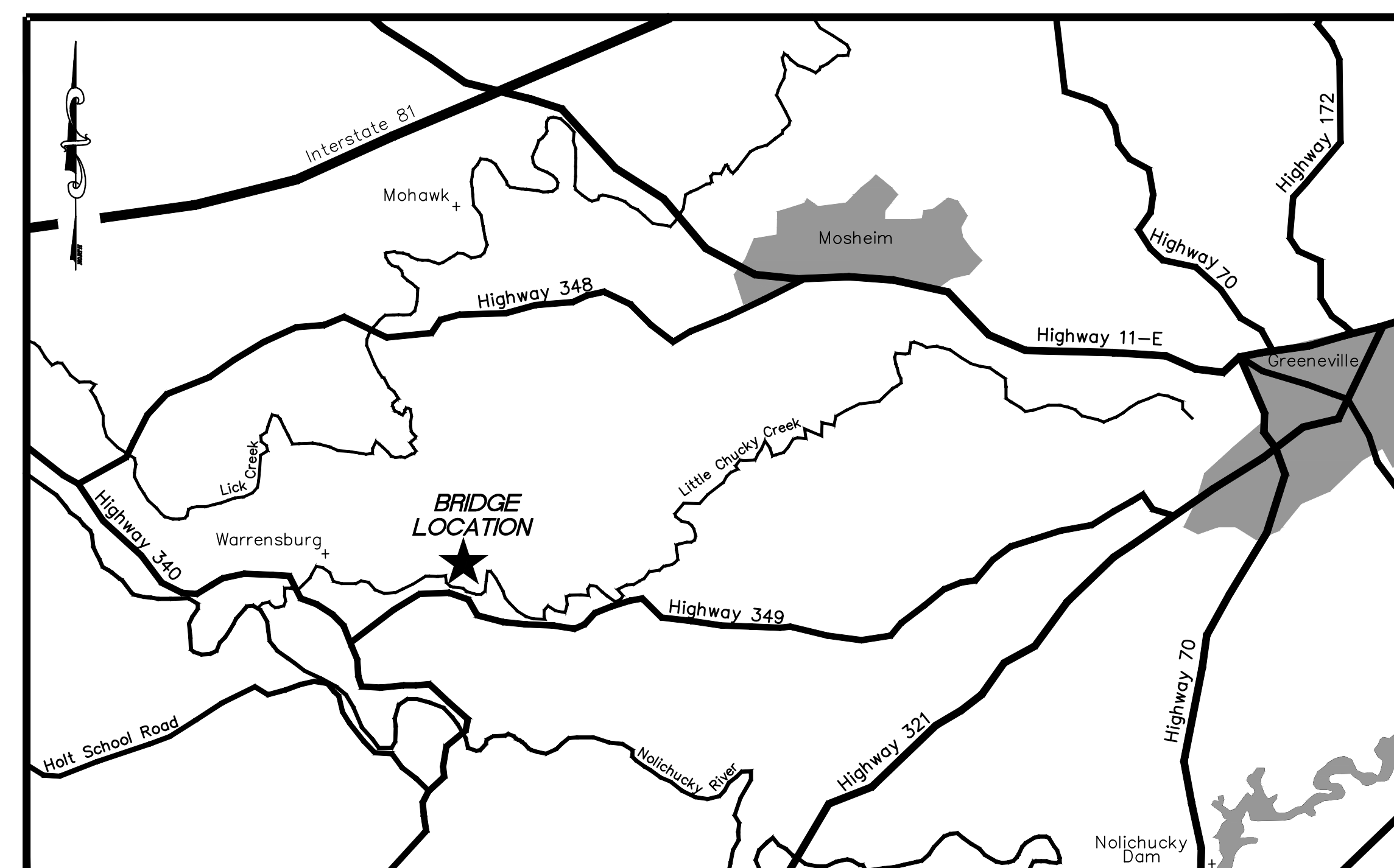


REHABILITATION OF

# LITTLE CHUCKEY CREEK COVERED BRIDGE

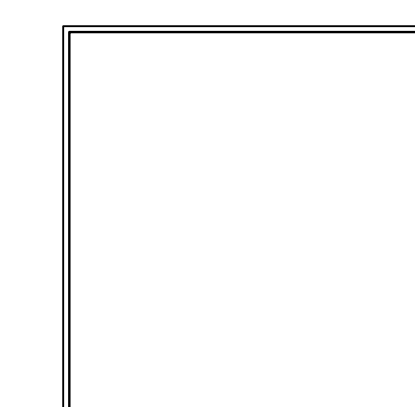


## GREENE COUNTY, TENNESSEE

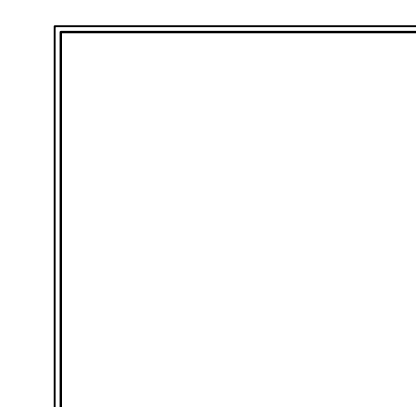
TEA-21 GRANT  
STP-EN-3000(42)



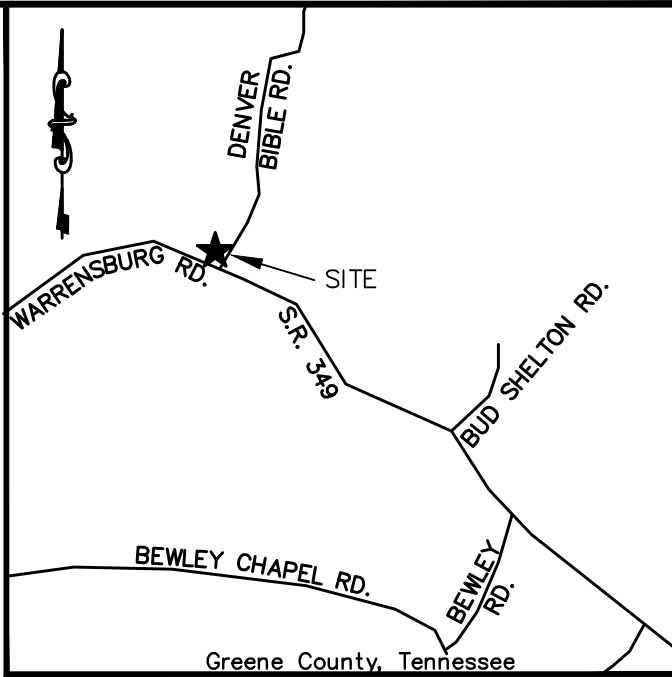
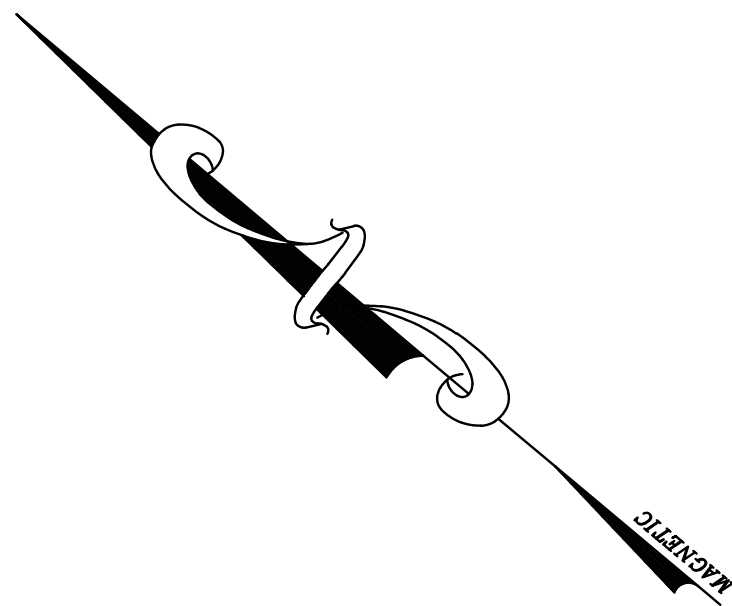
Engineering - Architecture - Surveying  
219 WEST DEPOT STREET  
GREENEVILLE, TENNESSEE 37743  
PHONE: (423) 639-0271 FAX: (423) 639-0900  
GREENEVILLE, TN. - ASHEVILLE, NC. - MIDDLESBORO, KY.



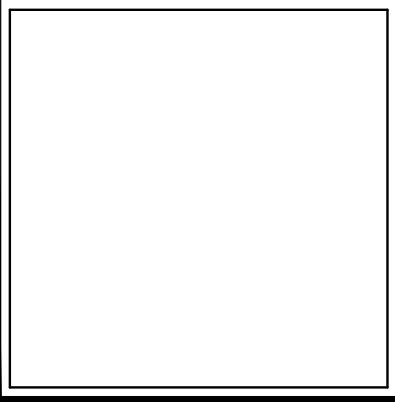
ROBERT W. JACKS  
VAUGHN & MELTON, INC.



DAVID C. FISCHETTI  
DCF ENGINEERING, INC.



REVISIONS		
NO.	DATE	DESCRIPT.



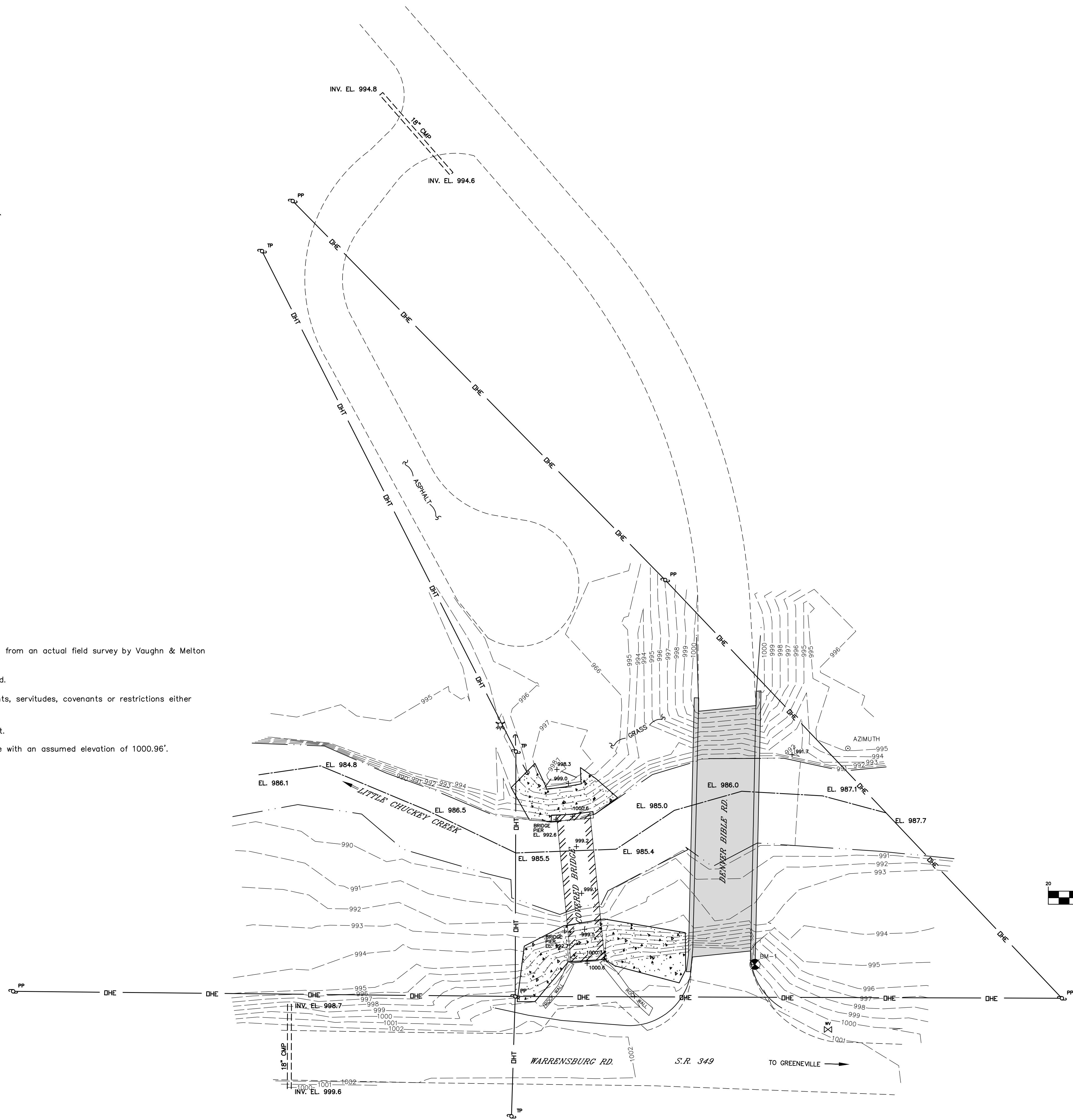
REHABILITATION OF  
LITTLE CHUCKEY CREEK  
COVERED BRIDGE  
GREENE COUNTY, TENNESSEE

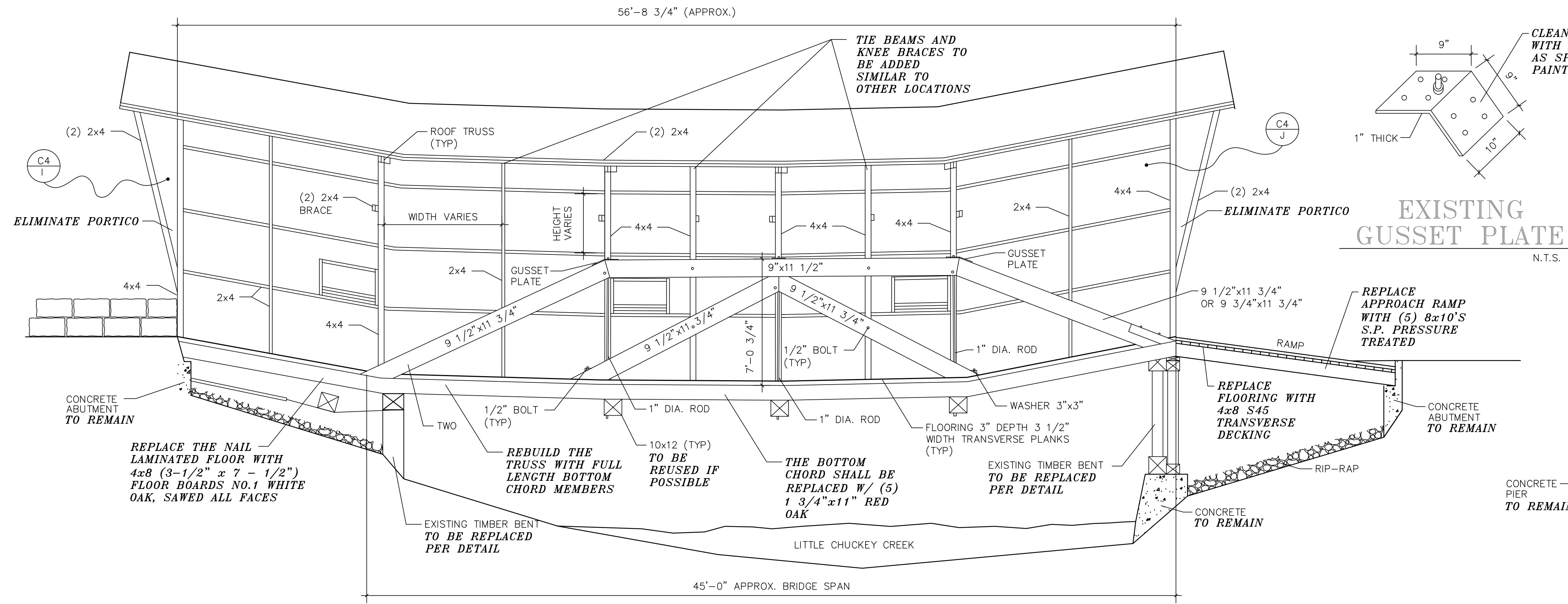


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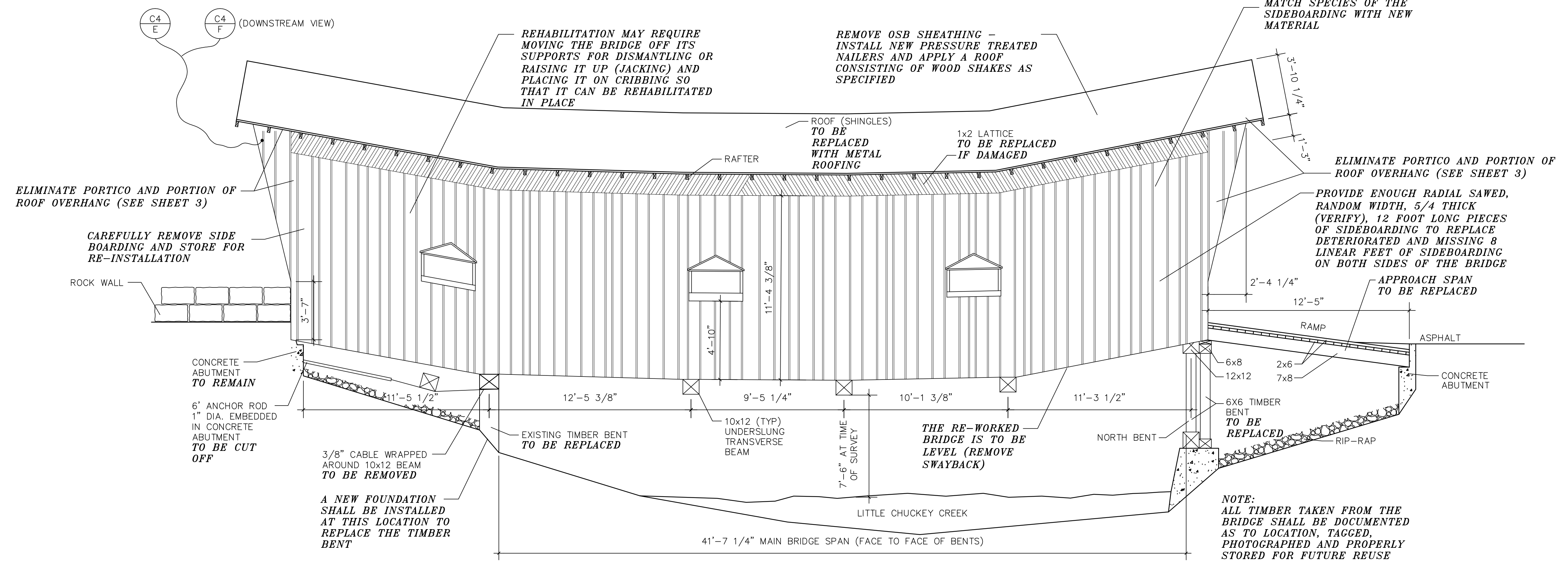
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DRAWN:	JAM/JLH
CHECKED:	JAM
JOB NO:	29902-38
SCALE:	1" = 20'
DATE:	19 APRIL 2000
FILE NAME:	99238BSE.DWG
SHEET TITLE:	TOPOGRAPHIC SURVEY
SHEET 1 OF 5	SHEET NO: 1

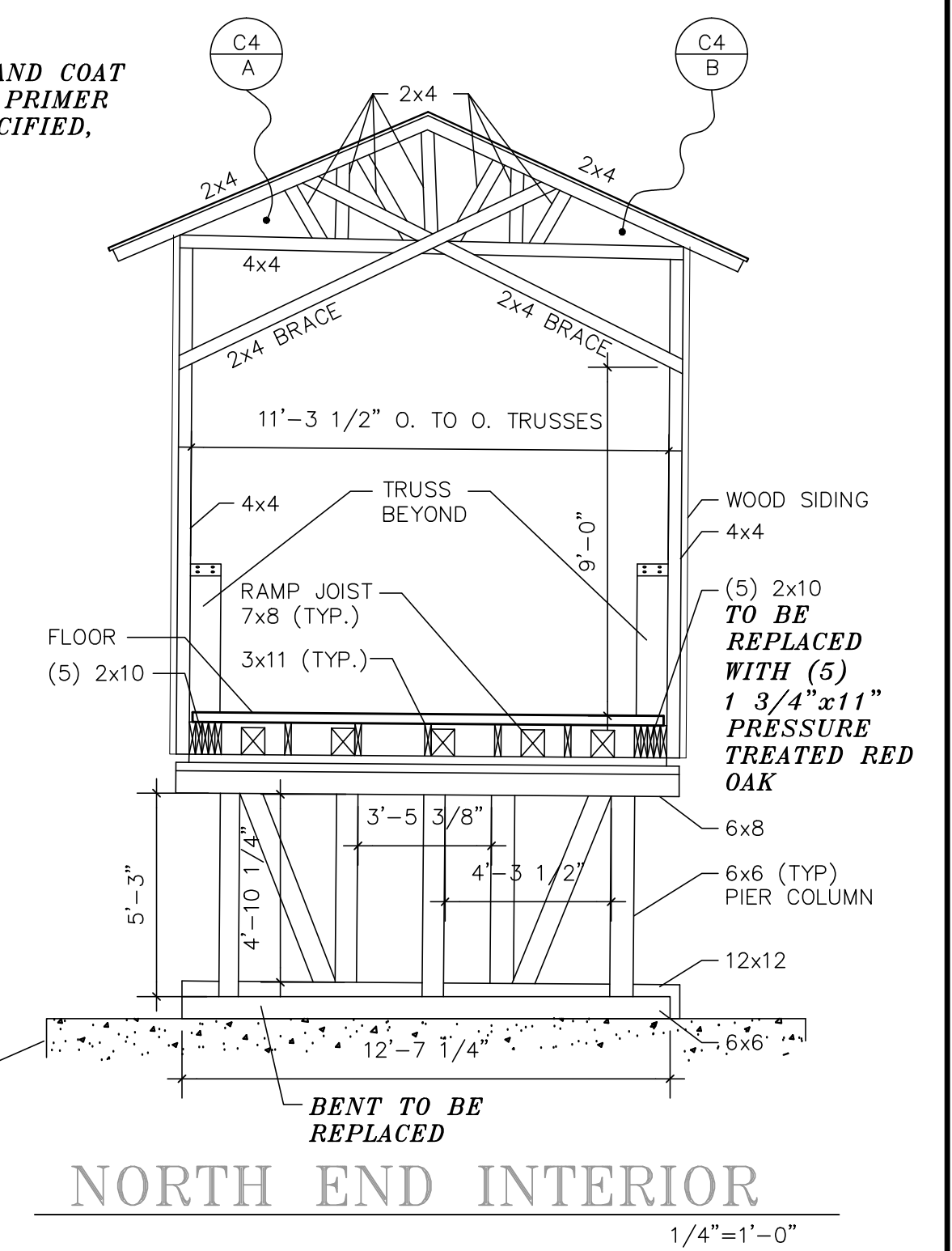




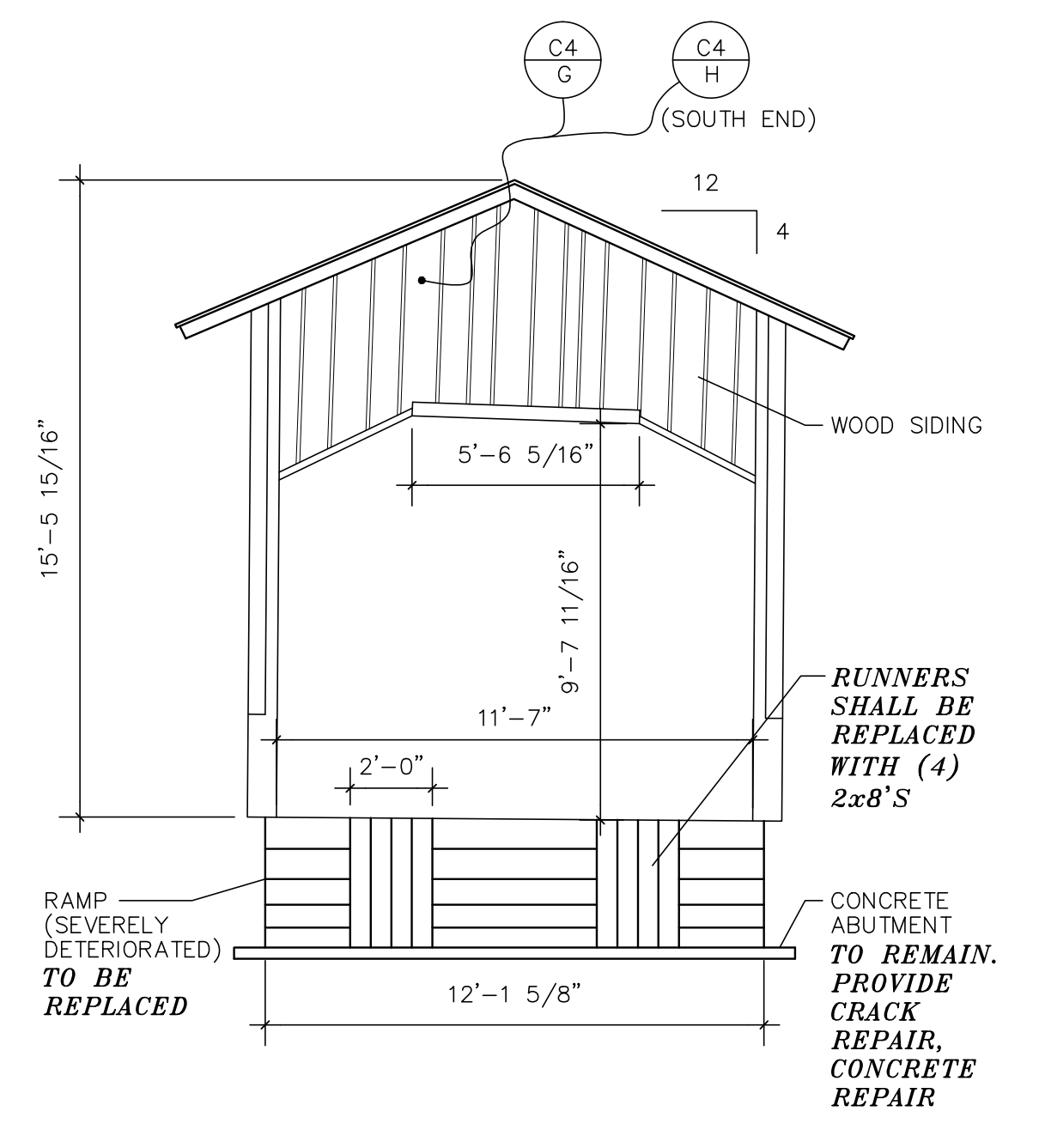
INTERIOR SIDE  
(LOOKING DOWNSTREAM) 1/4"=1'-0"



SIDE ELEVATION  
(LOOKING DOWNSTREAM) 1/4"=1'-0"



NORTH END INTERIOR  
1/4"=1'-0"



NORTH END ELEVATION  
1/4"=1'-0"

REVISIONS		
NO.	DATE	DESCRIPT.
1	4/15/02	Added note regarding portico & metal roofing

REHABILITATION OF  
LITTLE CHUCKEY CREEK  
COVERED BRIDGE  
GREENE COUNTY, TENNESSEE



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DRAWN: LDD	
CHECKED: RWJ	
JOB NO: 29902-38	
SCALE: AS NOTED	
DATE: 31 JULY 2001	
FILE NAME: BRIDGE	
SHEET TITLE: PROPOSED REHABILITATION TO EXISTING ELEVATIONS	
SHEET 2	SHEET NO: 2
OF 5	

GENERAL NOTES:

- A. LIVE LOADS  
1. ROOF SNOW LOAD 20 PSF  
2. WIND LOAD (BASIC WIND SPEED) 80 MPH  
3. FLOOR (ROADWAY) 85 PSF  
ASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (WITH INTERIMS)  
AIRC TIMBER CONSTRUCTION MANUAL  
1997 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION

- B. FOUNDATIONS  
THE ASSUMED SOIL BEARING PRESSURE USED FOR DESIGN IS 2000 PSF.

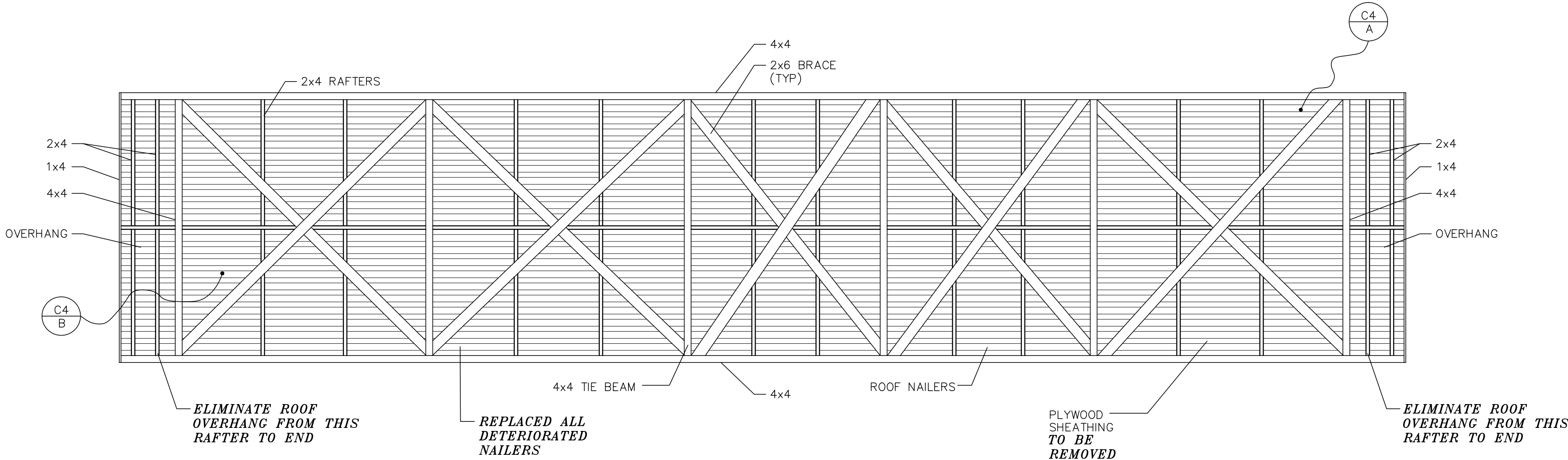
- C. HEAVY TIMBER CONSTRUCTION  
1. RED OR WHITE OAK MEMBERS SHALL BE NO. 1 GRADED IN ACCORDANCE WITH WCIB OR WMPA GRADING RULES.  
2. HEAVY TIMBER SHALL BE ROUGH SAWN CONFORMING TO NO.1 SOUTHERN PINE GRADED IN ACCORDANCE WITH SPB GRADING RULES. TIMBER FOR ROOF NAILERS SHALL BE ROUGH SAWN PRESSURE TREATED NO. 2 SOUTHERN PINE GRADED IN ACCORDANCE WITH THE SOUTHERN PINE INSPECTION BUREAU. TIMBER FOR COMMON RAFTERS SHALL BE LOCAL SPECIES EQUIVALENT TO NO. 2 RED OR WHITE OAK GRADED IN ACCORDANCE WITH THE NATIONAL LUMBER GRADES AUTHORITY. MATCH THE EXISTING SPECIES. WHITE OAK SHALL BE GRADED IN ACCORDANCE WITH THE NORTHEASTERN LUMBER MANUFACTURERS ASSOCIATION. FLOOR DECKING SHALL BE NO. 1 WHITE OAK. PRESSURE TREATED TIMBERS SHALL BE SOUTHERN PINE PER S.P.I.B.  
3. FABRICATION AND CONNECTIONS SHALL CONFORM TO AIRC TIMBER DESIGN SPECIFICATIONS.  
4. MATERIALS AND EXECUTION SHALL FOLLOW THE REQUIREMENTS OF THE 1997 EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.  
5. ALL BOLTS SHALL HAVE WASHERS AT TIMBER BEARING LOCATIONS. WASHERS SHALL BE HOT DIPPED GALVANIZED Ogee CAST IRON WASHERS.  
6. REPLACEMENT CHORD MATERIAL SHALL BE CAREFULLY FITTED AND CLAMPED TOGETHER.  
7. CHORD JOINTS ARE TO BE CONTINUOUS MEMBERS FULL LENGTH OF THE BRIDGE TRUSS.  
8. HOLES FOR BOLTS SHALL BE BORED WITH A TRIPOD MOUNTED DRILL USING TEMPLATES TO MARK HOLES.  
9. ALL BRIDGE COMPONENTS MUST BE PROPERLY BRACED TO RESIST ALL FORCES ENCOUNTERED DURING CONSTRUCTION.  
10. FOR REPLACEMENT MATERIALS, MATCH THE SIZE, SPECIES, FINISH AND GRADE OF THE EXISTING MATERIALS TO BE REPLACED. FOR APPROVAL, THE CONTRACTOR SHALL SUBMIT A LIST OF MATERIALS TO BE PURCHASED. THE LIST SHALL PRESENT THE QUANTITY, SIZE, LENGTH, FINISH, GRADE AND SPECIES OF EACH PIECE OF REPLACEMENT MATERIAL. OBTAIN APPROVAL BEFORE PROCEEDING WITH CONSTRUCTION.

- D. MISCELLANEOUS  
1. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.  
2. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS INDICATED ON THESE DRAWINGS. ANY VARIATION OF CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

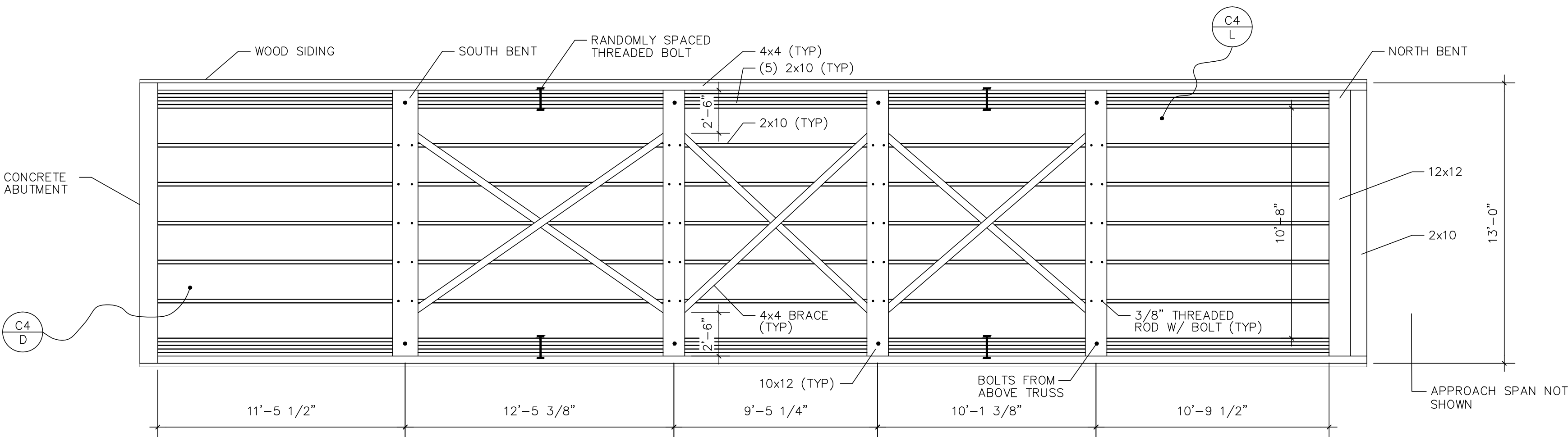
- E. MISCELLANEOUS STEEL  
1. APPLICABLE STANDARDS:  
A. "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.  
B. "CODE OF STANDARD PRACTICE" OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION.  
C. "APPLICATION OF THE EXTRACTS FROM CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION" BY THE AMERICAN WELDING SOCIETY.  
2. STEEL FOR MISCELLANEOUS CONNECTIONS SHALL CONFORM TO ASTM A-36, UNLESS INDICATED OTHERWISE.  
3. UTILIZE SQUARE HEAD ASTM A-307 HOT DIPPED GALVANIZED BOLTS WHERE INDICATED ON THE PROJECT DRAWINGS. PROVIDE OVERSIZED NUTS FOR GALVANIZING WHERE REQUIRED.

- F. FIRE RETARDANT  
1. APPLY A NON-TOXIC, NON-HAZARDOUS FIRE RETARDANT CHEMICAL TO THE COMPLETED BRIDGE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.  
2. THE FIRE PROTECTION PRODUCT SHALL BE APPLIED BY SPRAY, BRUSH, OR ROLLER COATING.  
3. THE FIRE PROTECTION PRODUCT SHALL BE "NOCHAR'S FIRE PREVENTER" OR APPROVED EQUAL.

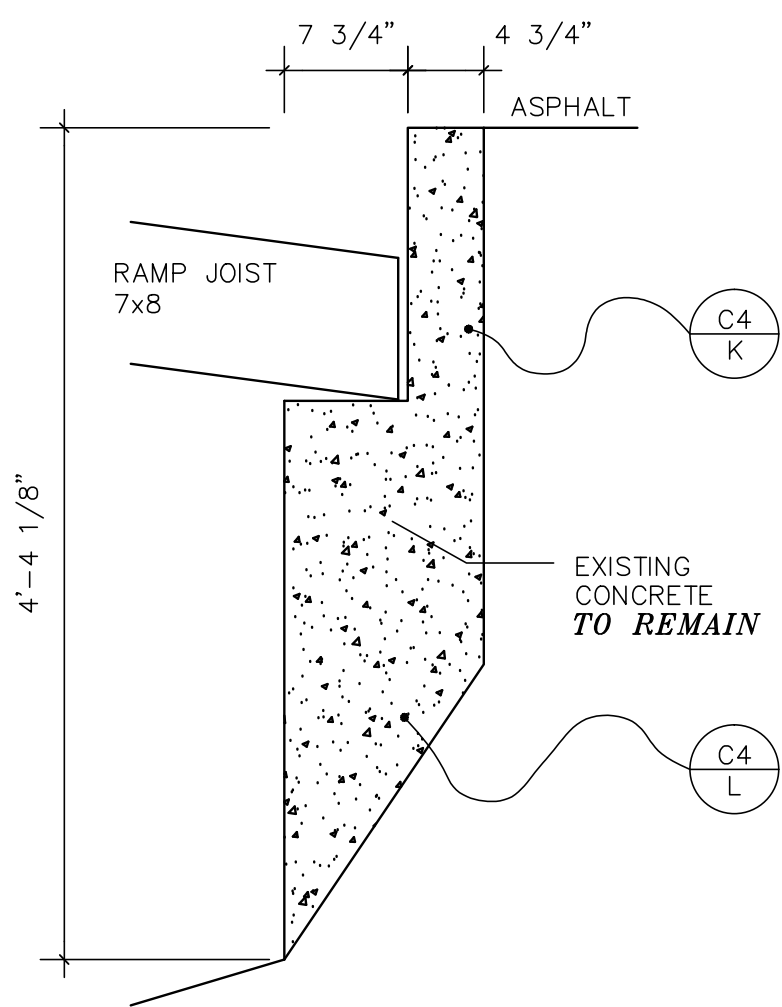
- G. HORSESHOE AND SIGNS ("THE BIBLE BRIDGE" & "CROSS THIS BRIDGE AT A WALK") LOCATED ON SOUTH FACE OF BRIDGE SHALL BE SALVAGED, KEPT IN SAFE STORAGE, & THEN RE-INSTALLED AFTER RESTORATION TO SAME LOCATION & ORIENTATION.



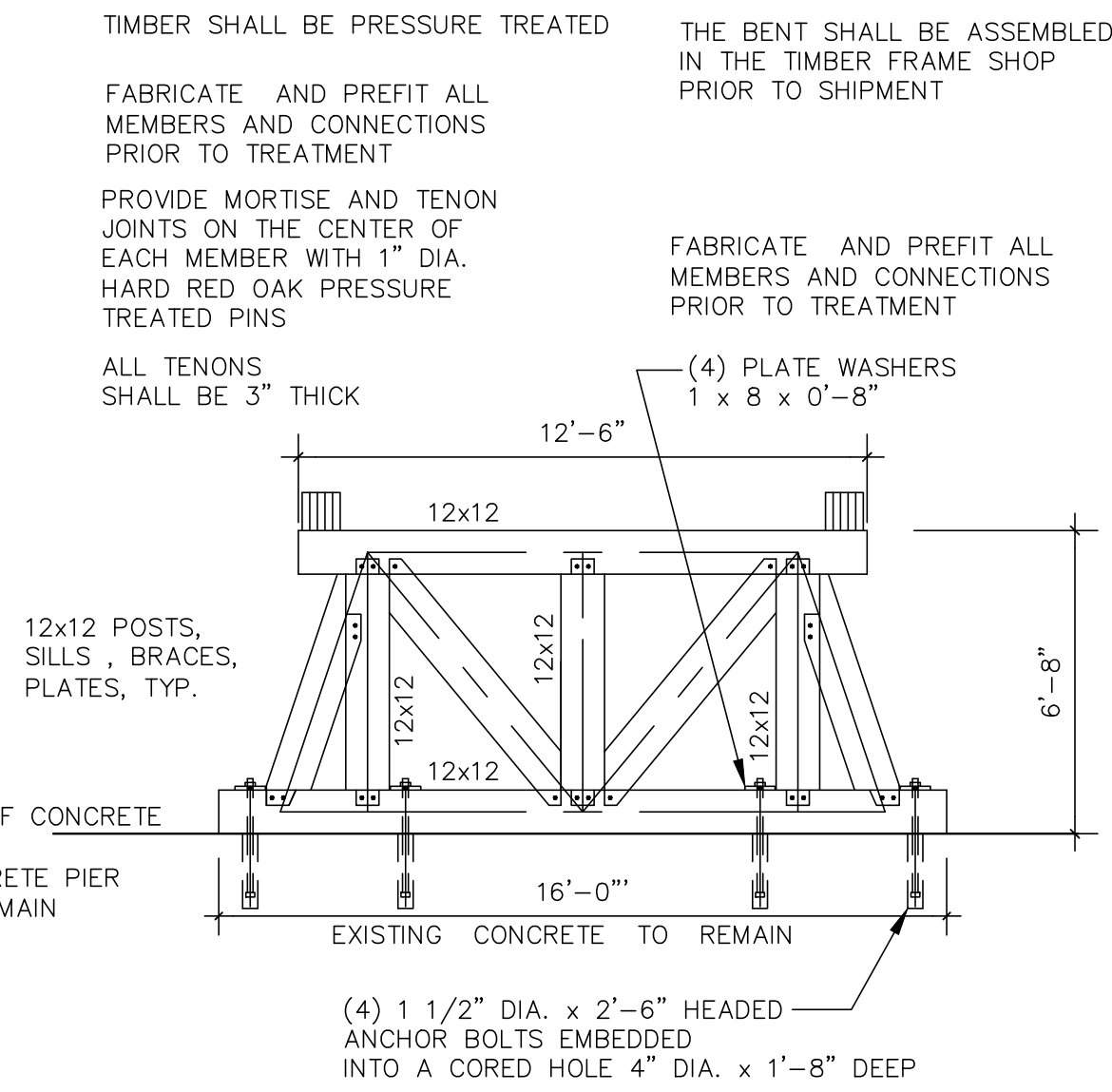
EXISTING ROOF FRAMING  
1/4"=1'-0"



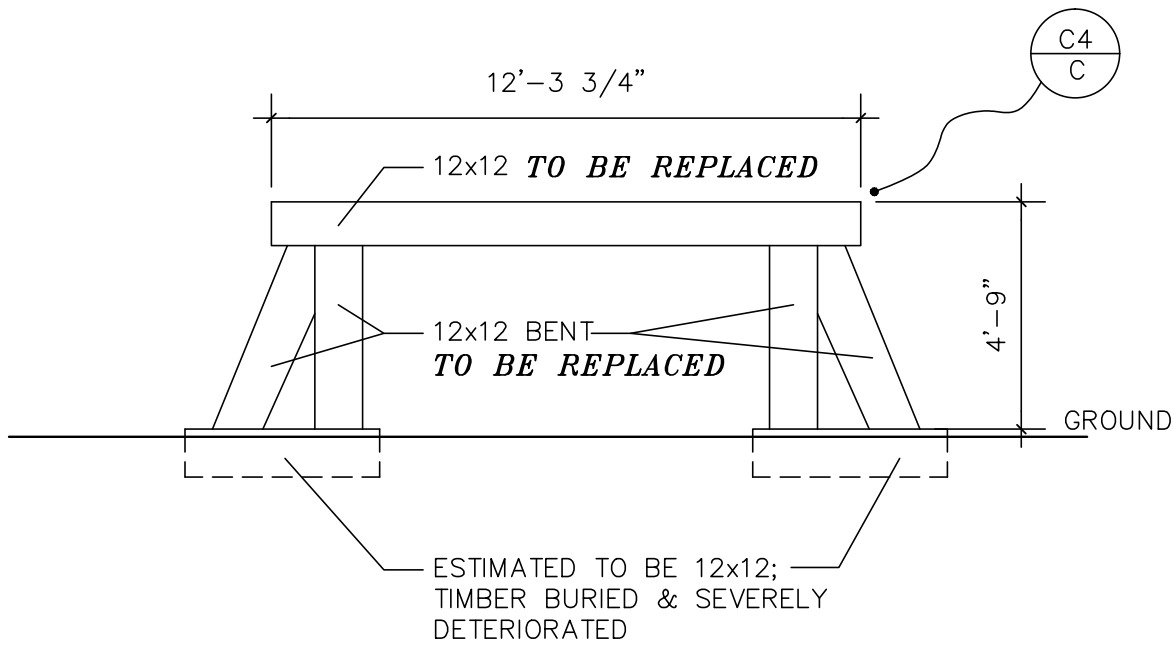
EXISTING FLOOR FRAMING  
1/4"=1'-0"



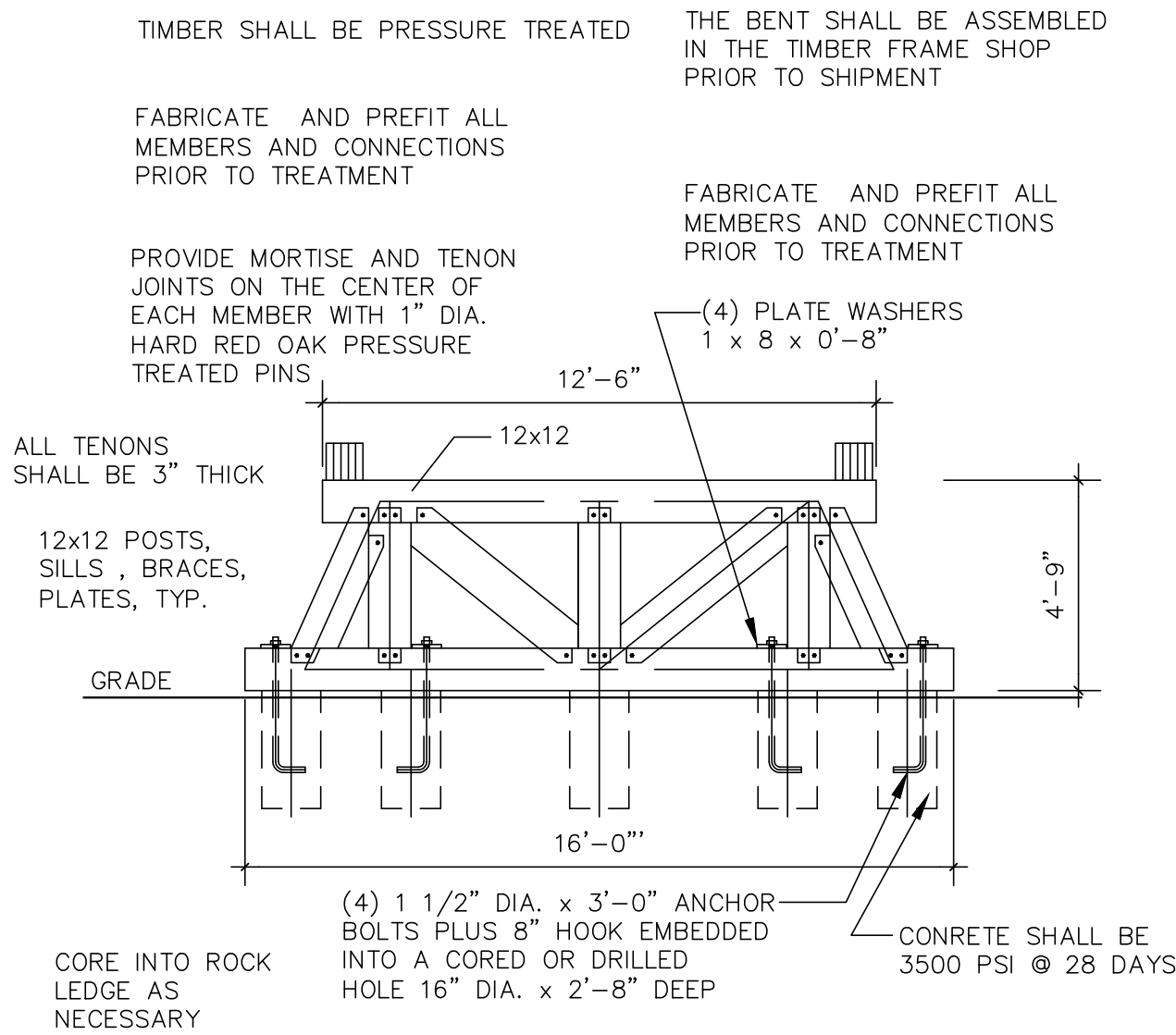
NORTH ABUTMENT PROFILE  
1"=1'-0"



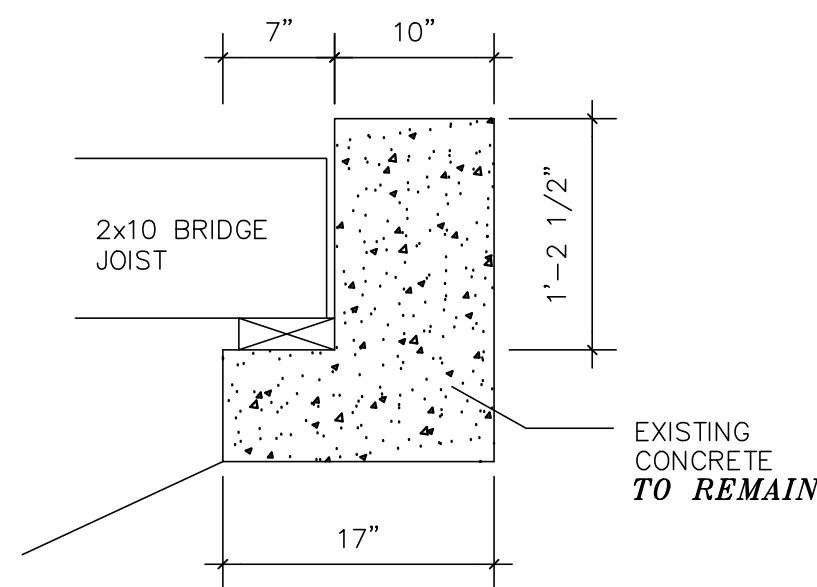
NEW NORTH BENT  
1/4"=1'-0"



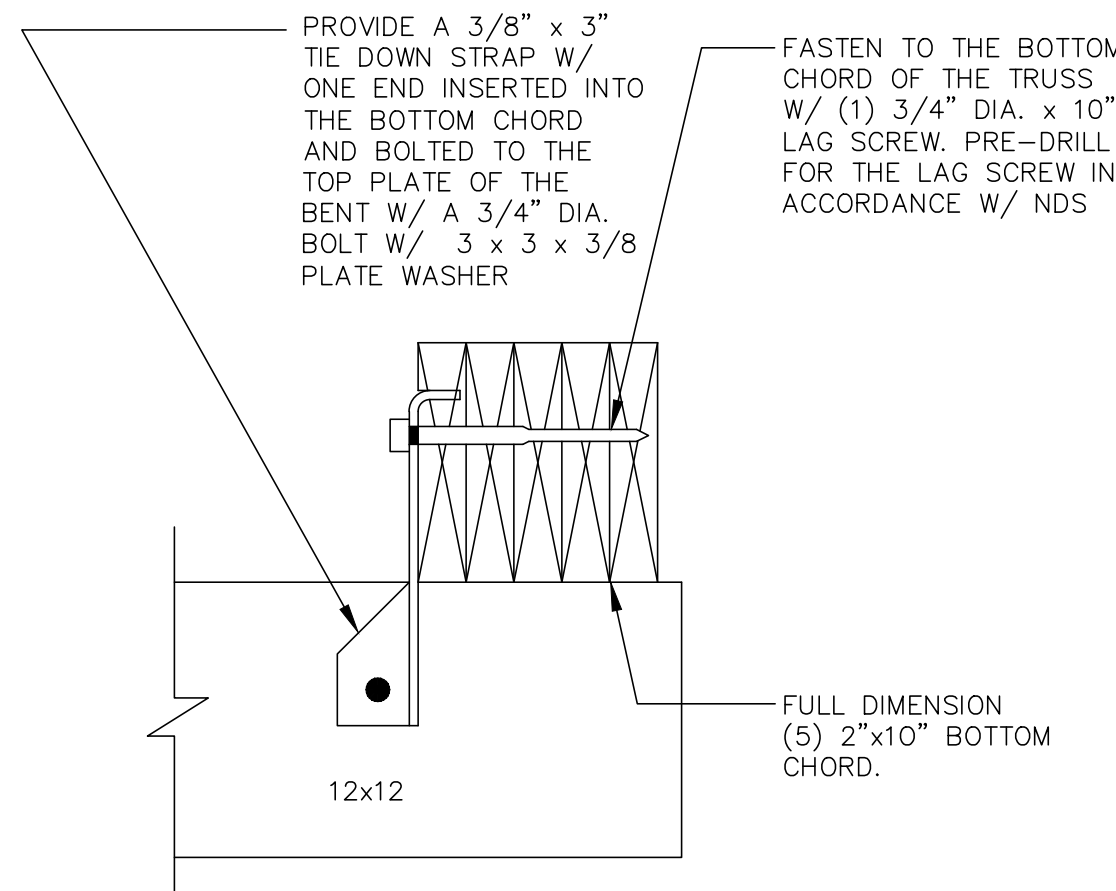
EXISTING SOUTH BENT  
1/4"=1'-0"



NEW SOUTH BENT  
1/4"=1'-0"



SOUTH ABUTMENT PROFILE  
1"=1'-0"



TIE DOWN DETAIL  
1 1/2"=1'-0"

REVISIONS		
NO.	DATE	DESCRIPT.
1	4/15/02	Added note regarding roof overhang

REHABILITATION OF  
LITTLE CHUCKEY CREEK  
COVERED BRIDGE  
GREENE COUNTY, TENNESSEE



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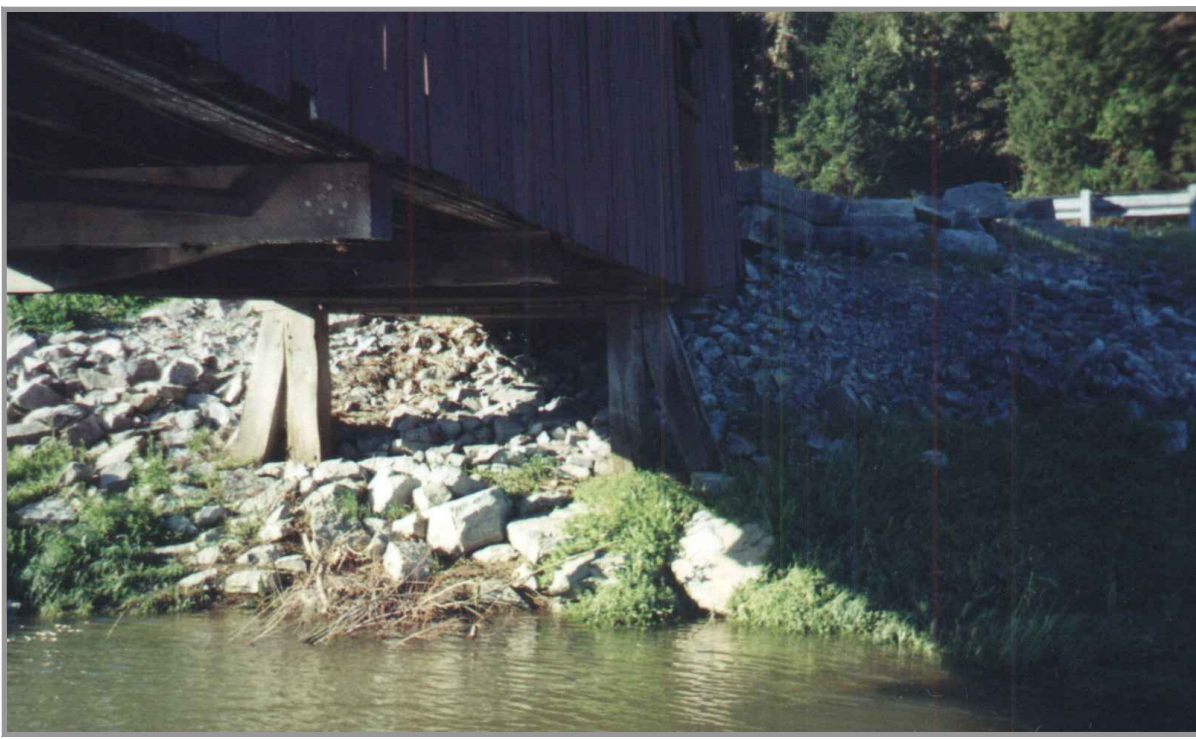
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CHECKED: RWJ	OF 5
JOB NO: 29902-38	3
SCALE: AS NOTED	
DATE: 31 JULY 2001	
FILE NAME: BRIDGE	
SHEET TITLE: PROPOSED REHABILITATION TO EXISTING ELEVATIONS	



C4  
A INTERIOR ROOF FRAMING  
UPSTREAM SIDE - (LOOKING NORTH)



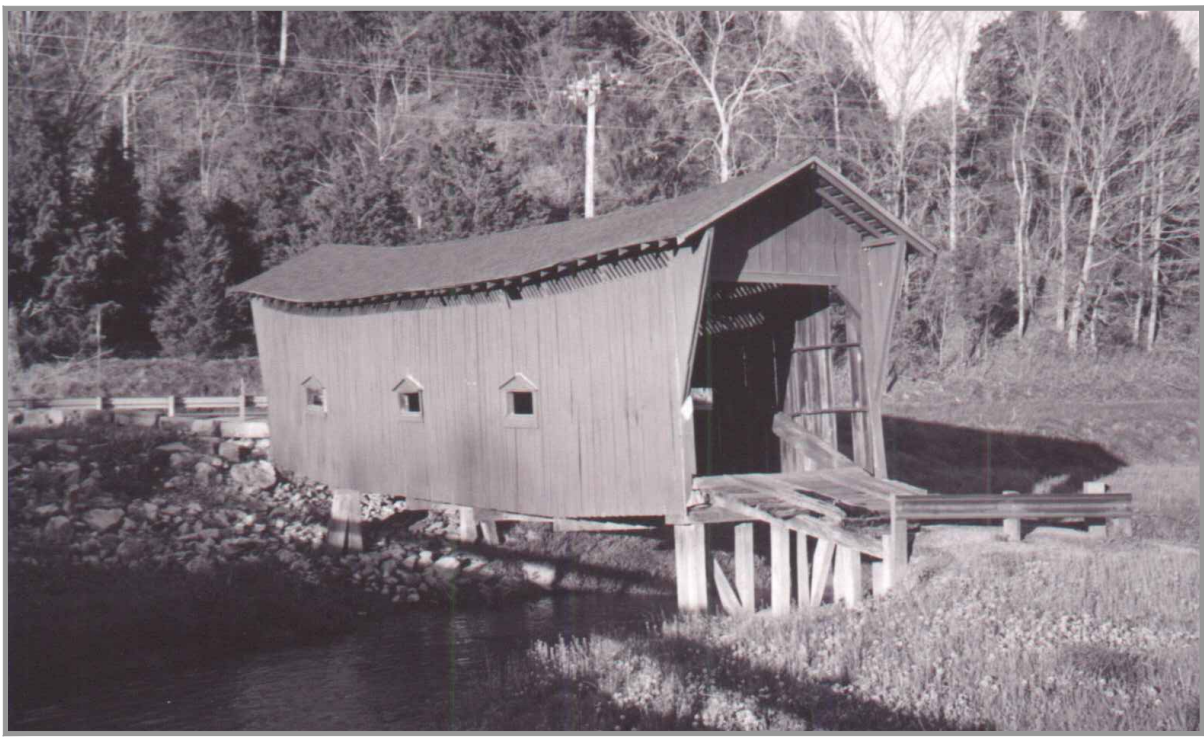
C4  
B INTERIOR ROOF FRAMING  
DOWNSTREAM SIDE - (LOOKING NORTH)



C4  
C SOUTH BENT



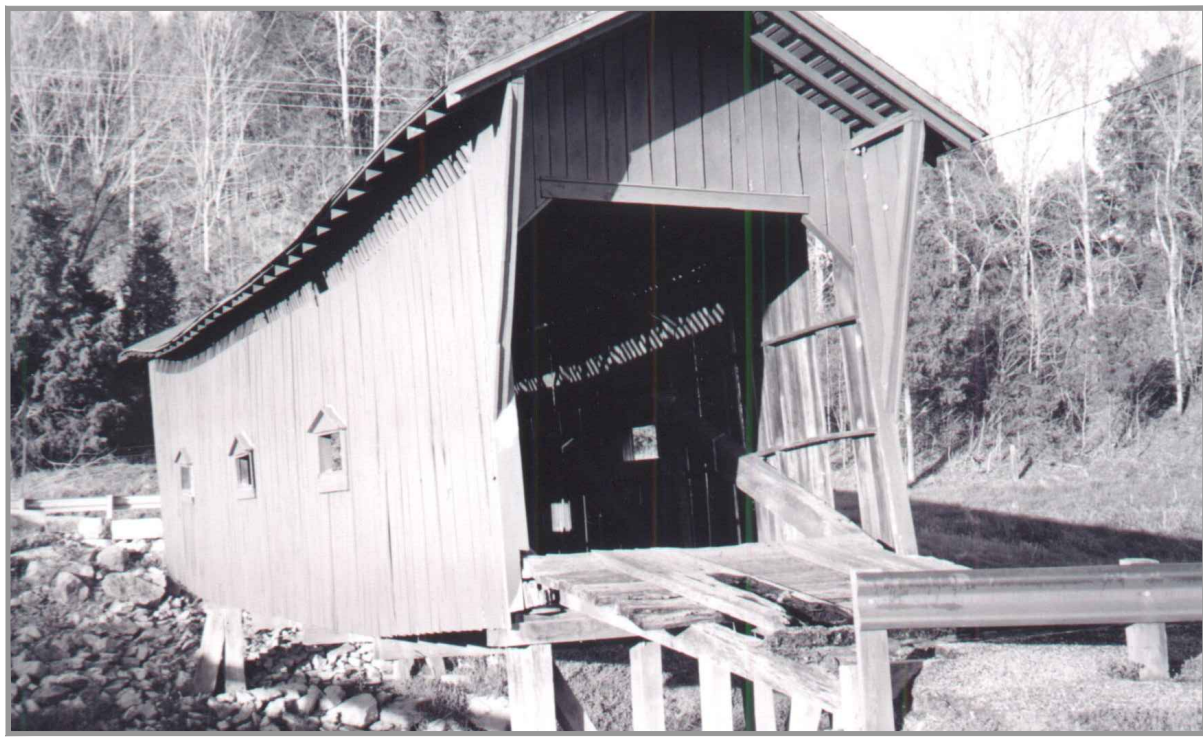
C4  
D FLOOR FRAMING & UNDERSLUNG  
(LOOKING SOUTH)



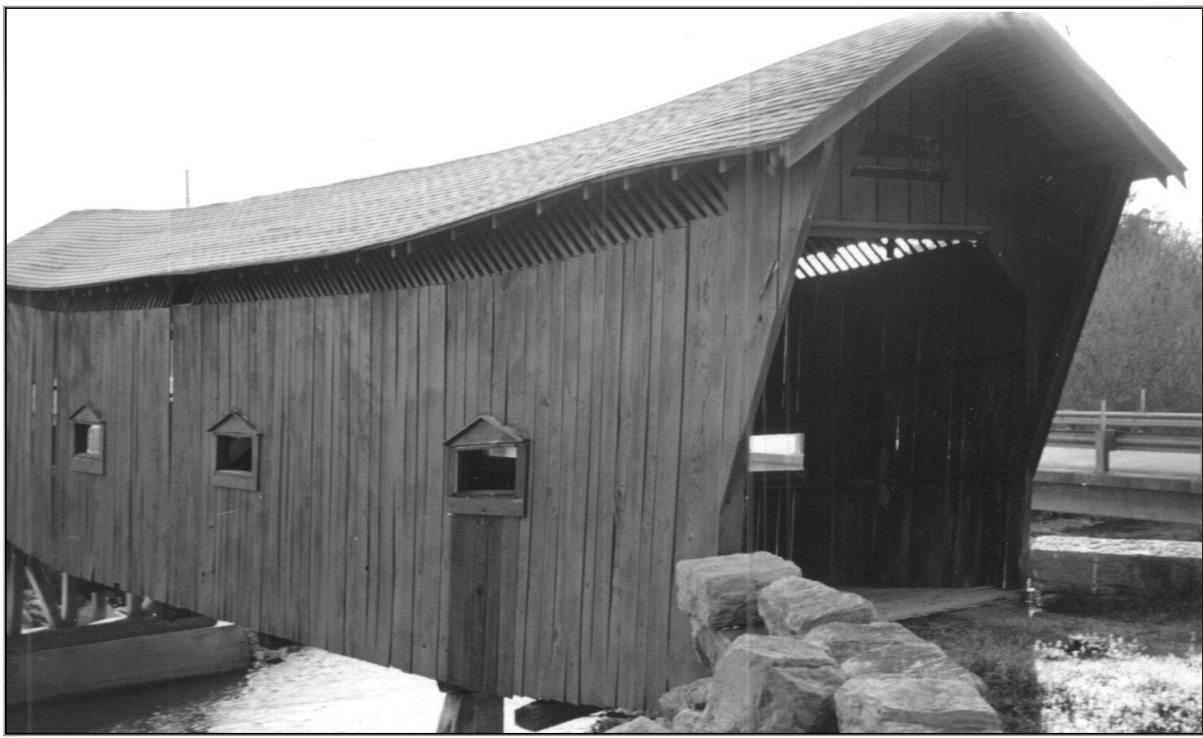
C4  
E SIDE ELEVATION  
(UPSTREAM SIDE)



C4  
F SIDE ELEVATION  
(DOWNSTREAM SIDE)



C4  
G NORTH END ELEVATION  
AND INTERIOR



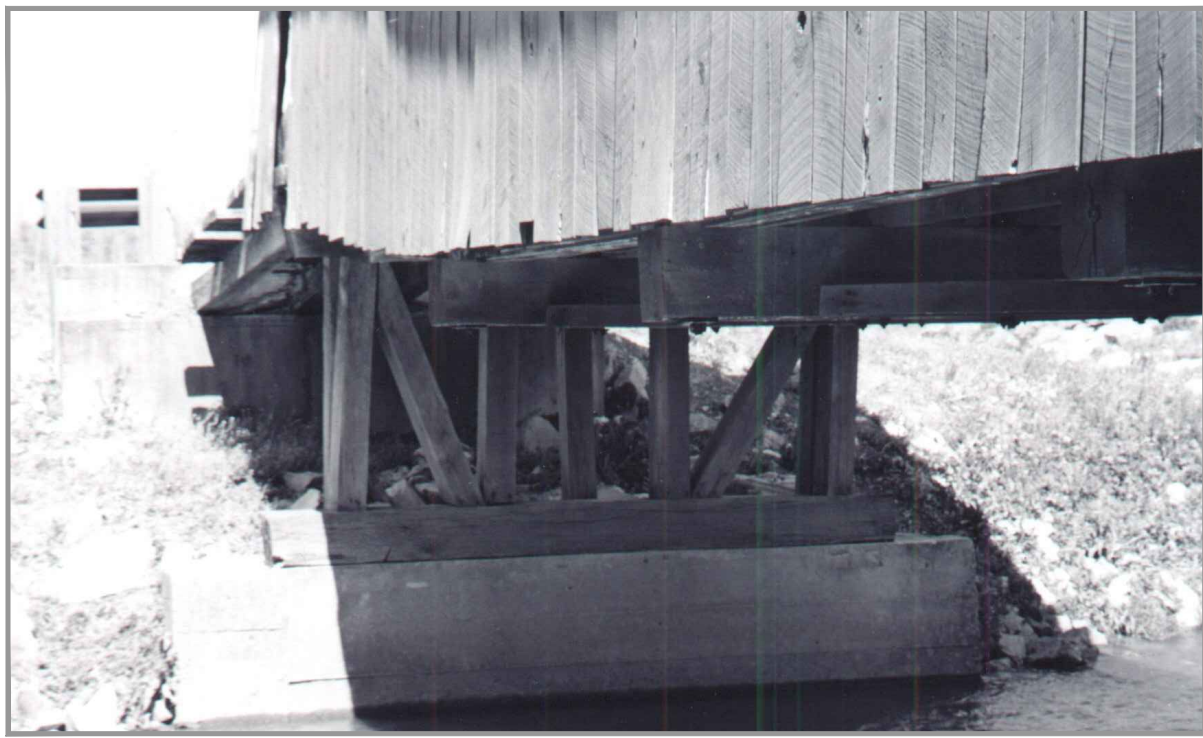
C4  
H SOUTH END ELEVATION  
AND INTERIOR



C4  
I INTERIOR  
(LOOKING SOUTH)



C4  
J INTERIOR  
(LOOKING NORTH)



C4  
K NORTH BENT



C4  
L FLOOR FRAMING & UNDERSLUNG  
(LOOKING NORTH)

REVISIONS		
NO.	DATE	DESCRIPT.

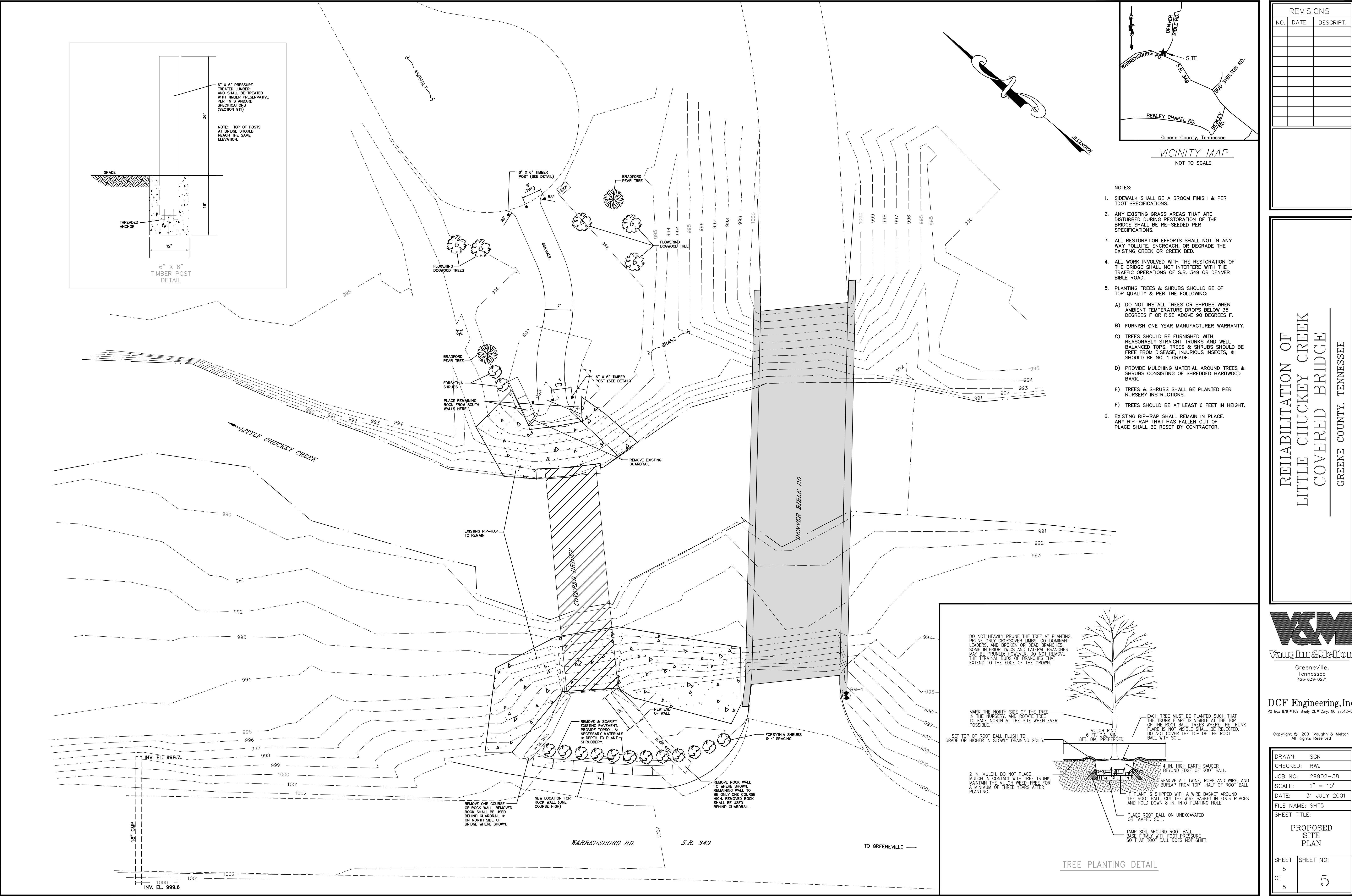
REVIEW DRAWINGS  
NOT FOR CONSTRUCTION  
Date: 13 FEB 2001

REHABILITATION OF  
LITTLE CHUCKEY CREEK  
COVERED BRIDGE  
GREENE COUNTY, TENNESSEE



Middlesboro,  
Kentucky  
606-248-6600  
Greeneville,  
Tennessee  
423-639-0271  
Asheville,  
North Carolina  
828-253-2796  
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DRAWN: LDD	
CHECKED: RWJ	
JOB NO: 29902-38	
SCALE: AS NOTED	
DATE: 13 FEB 2001	
FILE NAME: BRIDGE	
SHEET TITLE: PROPOSED REHABILITATION TO EXISTING ELEVATIONS	
SHEET 4 OF 5	SHEET NO: 4



REVISIONS		
NO.	DATE	DESCRIPT.

REHABILITATION OF  
LITTLE CHUCKEY CREEK  
COVERED BRIDGE

GREENE COUNTY, TENNESSEE

**V&M**  
Vaughn & Melton  
Greeneville,  
Tennessee  
423-639-0271

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DRAWN: SGN	SHEET NO: 5
CHECKED: RWJ	OF 5
JOB NO: 29902-38	5
SCALE: 1" = 10'	
DATE: 31 JULY 2001	
FILE NAME: SHT5	
SHEET TITLE: PROPOSED SITE PLAN	