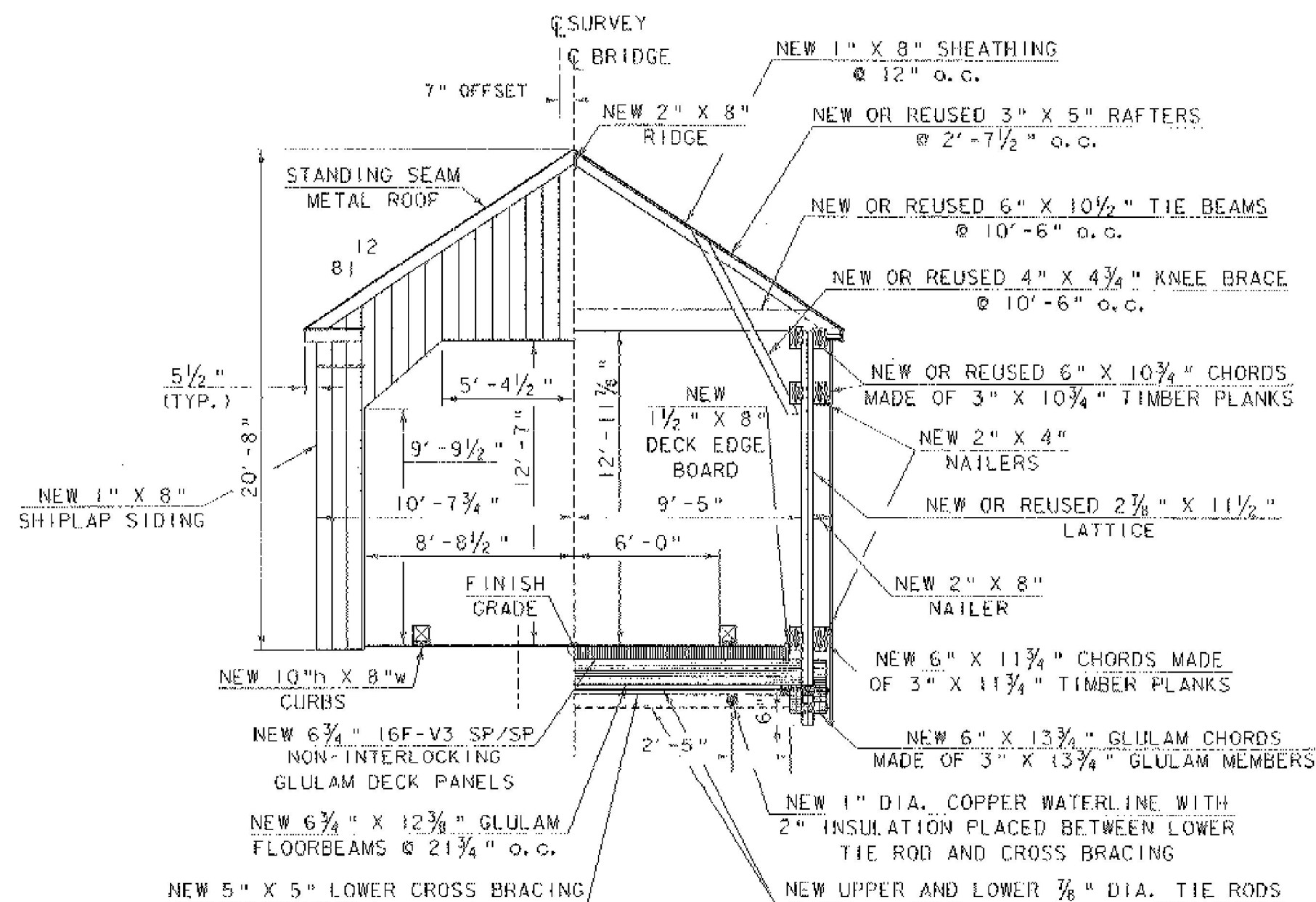


**EXISTING TYPICAL BRIDGE SECTION**

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



**NEW TYPICAL BRIDGE SECTION**

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

**EXISTING STRUCTURE\***

1. STRUCTURE TYPE	WOODEN (TOWN LATTICE) COVERED BRIDGE	OVERALL LENGTH	132'-8"	INVENTORY RATING	N/A
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	N/A				
3. CLEAR SPAN LENGTH(S) NORMAL TO STREAM	109'				
4. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	2200 SF	VERTICAL CLEARANCE ABOVE STREAMBED	25'		
5. WATER SURFACE ELEVATION @ D. 2.33	358.5	WATER SURFACE ELEVATION @ D. 1.00	358.7		
6. WATER SURFACE ELEVATION AT FLOOD OF RECORD	367.0	YEAR	1927	ESTIMATED DISCHARGE	N/A
7. DOES ALL WATER PASS THROUGH EXISTING STRUCTURE? IF NOT, AT WHAT FREQUENCY AND ELEVATION DOES RELIEF OCCUR?	0% ELEV. 352.0				
8. TYPE OF SUBSTRUCTURE FOUNDATION MATERIAL	NEST ABUTMENT ON LEDGE, EAST ABUTMENT ON UNKNOWN				
9. DISPOSITION OF STRUCTURE	REHABILITATE				

\*NOTE: THE VADT BASED THE EXISTING STRUCTURE HYDRAULIC DATA ON THE EFFECTS OF THE COVERED BRIDGE IN PLACE ONLY. THE DATA DOES NOT TAKE INTO ACCOUNT THE EFFECT OF THE EXISTING TEMPORARY BRIDGE.

**NEW STRUCTURE**

1. STRUCTURE TYPE	WOODEN (TOWN LATTICE) COVERED BRIDGE	OVERALL LENGTH	133'-7 1/2"
2. SPAN LENGTH(S) CENTER TO CENTER OF BEARINGS	N/A		
3. VERTICAL CLEARANCE ABOVE STREAMBED OR ROAD UNDER	25'		
4. CLEAR SPAN LENGTH(S) NORMAL TO STREAM	109'		
5. WATERWAY AREA OF FULL OPENING (NORMAL TO STREAM)	2200 SF		
6. ARE PROVISIONS TO BE MADE FOR PUBLIC UTILITIES?	YES		

HYDRAULIC DATA:					
1. D. 2.33	5000 CFS	WATER ELEVATION	358.5	VELOCITY	4.1 FPS
D. 1.0	3680 CFS	WATER ELEVATION	358.4	VELOCITY	6.1 FPS
D. 25	12400 CFS	WATER ELEVATION	358.4	VELOCITY	7.5 FPS
D. 50	14400 CFS	WATER ELEVATION	357.5	VELOCITY	8.5 FPS
D. 100	16000 CFS	WATER ELEVATION	358.7	VELOCITY	9.4 FPS
2. DRAINAGE AREA	459 SQ. MI.	CHARACTER OF TERRAIN	VARIES FROM ROLLING HILLS IN HEADWATERS TO WIDE VALLEYS AT THE SITE		
3. ARE THERE OBJECTIONS TO A PIER IN THE STREAM?	N/A				
4. DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY?	NO				
5. NATURE OF NATURAL STREAMBED	SILTY SAND				
6. ESTIMATED SCOUR DEPTH	0.000	DEPTH	0.8	COMMENT ON DRIFT	SLIGHT
7. WILL ALL WATER PASS THROUGH NEW STRUCTURE? IF NOT, WHAT FREQUENCY AND ELEVATION WILL RELIEF OCCUR?	0% ELEV. 352.0				
8. VERTICAL CLEARANCE ABOVE D.	25'-1'-1"				
9. ALLOWABLE WATER SURFACE ELEVATION	357.5	LIMITED BY	LOWER CHORD OF EXISTING BRIDGE		
10. IS DESIGN STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS?	NO				
11. ORDINARY LOW WATER	425 CFS	DEPTH	6.9 FT.	ORDINARY HIGH WATER	2150 CFS
12. AVERAGE DAILY FLOW	1800 CFS	STREAMBANK OR CHANNEL PROTECTION REQUIRED	SIDE FILL TYPE III		
13. DISTANCE TO EXISTING UPSTREAM STRUCTURE	0.8 MI.	SPAN	118'	WATERWAY AREA OF FULL OPENING	N/A
14. DISTANCE TO EXISTING DOWNSTREAM STRUCTURE	1.4 MI.	SPAN	225'	WATERWAY AREA OF FULL OPENING	N/A

ALLOWABLE STRESSES:			
1. DESIGN LIVE LOAD RASHTO H. 20 (OPERATING PER WORKING STRESS)	N/A		
2. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL	N/A	ON LEDGE	10 KSF
3. ALLOWABLE LOAD FOR PILING	N/A	TYPE	N/A
4. STRUCTURAL STEEL RASHTO GRADE	N/A		
5. REINFORCING STEEL GRADE 60	N/A		
6. CONCRETE CLASS A	N/A		
CLASS B	3500 PSI		

TRAFFIC MAINTENANCE:			
1. IS TRAFFIC TO BE MAINTAINED?	YES	IF YES, ON EXISTING STRUCTURE	NO
2. TEMPORARY BRIDGE REQUIREMENTS:	ONE OR TWO WAY	TRAFFIC CONTROL SIGNALS REQUIRED	N/A
MINIMUM CLEAR SPAN	N/A	MINIMUM CLEAR HEIGHT	N/A
ARE SIDEWALKS REQUIRED?	N/A	IF SO, ON WHAT SIDE?	N/A

**LOAD FACTOR LOAD RATING (TONS)**

LOADING LEVELS (LOAD FACTOR)	TRUCK				
	H*	HS	SS2	4 AXLE	SA, STR.   4A, STR.   5A, SEMI
INVENTORY	16				
POSTED	20				
OPERATING					

\*FLOOR BEAMS IN BENDING GOVERN

**TRAFFIC DATA**

YEAR	ADT	DHV	% D	% T	ADTT
1992	600	85	5		
2012	840	120	6	53	

18 Kip ESAL for flexible pavement from 1992 to 2012: 312,000  
 18 Kip ESAL for flexible pavement from -- to -- : --  
 Design speed: 20 mph

**PRELIMINARY INFORMATION SHEET (1)**

PROJECT NAME:	BRANDON
PROJECT NUMBER:	BHZ 1443 (22)
FILE NAME:	871137\Structures\871137p11
PROJECT MANAGER:	R. R. WHITCOMB
DESIGNED BY:	T. SUMNER
PLOT DATE:	16-MAY-2002
DRAWN BY:	C. ROY
CHECKED BY:	T. SUMNER
SHEET	2 OF 51