

108' x 18.0' BRIDGE

66' PONY TRUSS WITH 43.5' APPROACH SPAN

SEE ATTACHED FOR APPROACH SPAN RATING

THE TRUSS IS A MODIFIED X-14 STANDARD.

*CONCRETE DECK REPLACED W/ TIMBER DECK & TIMBER STRINGERS
(SEE ATTACHED STRINGER RATING)

THE FLOORBEAM AND MEMBER U₁L₂ CONTROL THE RATING OF THE STANDARD X14 TRUSS. SEE ATTACHED FLOORBEAM RATING.

FIND. DEAD LOAD IN MODIFIED TRUSS:

X14 DL (FROM STD CALCS) =	1360 pif
- CONCRETE DECK = $(1\frac{1}{2} \times 7\frac{1}{2} \times 150 \text{ #/cf}) =$	- 844
- FILL = $(3\frac{1}{2} \times 1\frac{1}{2} \times 120 \text{ #/cf}) =$	- 270
+ 1/2" ROCK = $(1\frac{1}{2} \times 1\frac{1}{2} \times 120) =$	+ 135
TIMBER FLOOR = $(4\frac{1}{2} \times 1\frac{1}{2} \times 50) =$	+ 169
TIMBER STRINGER = $(17\frac{1}{4} \times 14 \text{ STRINGERS} / 2) =$	+ 119
	<u>669 pif</u>

REVISED DL IS MUCH LOWER THAN ORIGINAL, STANDARD DL.

∴ TRUSS WILL RATE MUCH HIGHER THAN ORIGINAL STANDARD RATING. ∴ U₁L₂ WILL NOT CONTROL RATING - FLOORBEAM NOW CONTROLS - SEE ATTACHED FLOORBEAM RATING.

U₁L₂: DL = $42.3 \left(\frac{669}{1360} \right) = 20.8 \text{ k}$

TYPE 4: OPER RATING = $\frac{96.7 - 20.8}{67.7} (27.25) = 30.6 \text{ T (L)}$

3S3A: OPER RATING = $\frac{96.7 - 20.8}{73.3} (40) = 41.4 \text{ T (L)}$

3-3: OPER RATING = $\frac{96.7 - 20.8}{72.4} (40) = 41.9 \text{ T (L)}$

NEGLECTS SECTION LOSS DUE TO CORROSION

FIELD REPORTS INDICATE TRUSS IS HEAVILY CORRODED. SINCE FLOORBEAM RATES SO MUCH LOWER THAN TRUSS, POST BASED ON FLOORBEAM RATING AND CONSIDER LOWERING POSTING AS WARRANTED BY TRUSS DETERIORATION (SEE RECOMMENDATIONS BY FIELD INSPECTORS).

POST "41, 520, 624 ALL VEHICLES"

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS

