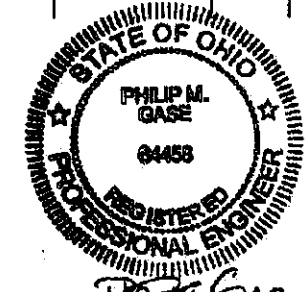
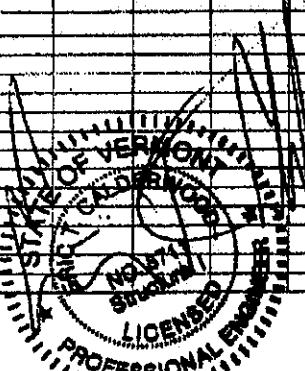


INPUT

| STANDARD EXODERMIC BRIDGE DECK - DATA INPUT SHEET               |   |
|---|---|
| Variables are in drop down boxes or are shown in red            |   |
| (Additional input Variables on Continuity Sheet)                |   |
| Project Title   | VT - Richmond Truss   |
| Grid Component  | W4 x 13   |
| Main Reinforcing Bar Spacing                                    | 12  |
| Concrete Component  |   |
| Concrete type   | Normal weight   |
| Concrete thickness (in.)  | 5   |
| Top portion of concrete to ignore for finite modeling           | 0.5 in.   |
| Weight of proposed or fabricating method                        | 20 lb/cu ft   |
| Weight of additional dead load (curbs, barriers, etc.)          | 0 lb/cu ft (Distributed across deck)  |
| Concrete weight   | 145 MODULAR RATIO: 8  |
| Concrete strength (psi)   | 4000 (See discussion on sheet "Reinforcing")  |
| Steel strength (ksi)  | 60,000 (Specify ASTM A662 for ASTM A662 for weathering steel)                                       |
| Bar number  | 4 #4 in. dia.   |
| Number bars #   | 4 #4 in. dia.   |
| Rebar strength  | 60,000 (psi)  |
| Minimum Allowable Stress in Rebar                               | 24,000 psi (24,000 per AASHTO 10.8.2.1 (24,000 for Grade 60, 24,000 for Grade 60 - AASHTO 10.8.2.2) |
| Rebar height  | 0.75 in. @ 2 in. o.c. (Specify length = 0.5 in.)  |
| Location of top of weld relative to bottom of main bars         | 2.945   |
| (Assumes top of weld located at top of distribution bar)        |   |
| Height of main bar embedded in concrete                         | 3 in. (Form Pin Thickness = 20 mils)  |
| Deck Continuity   | Continuous  |
| Design Load   | 85 PSF (Specify per PSF, AASHTO 3.4.1.3)  |
| Main Bar Direction  | Vertical  |
| Impact  | 30%   |
| Allowable Live Load Deflection                                  | <= L / 800  |
| Panel Layout  |   |
| Length (Main Bars)  | 21.187 ft   |
| Width   | 8 ft  |
| Number of composite supporting beams                            | 4   |
| Supersubstructure   |   |
| Beam Size   | W14 x 78  |
| Beam Spacing  | 8 ft  |
| Flange Width  | 8.99 in.  |
| Flange Thickness  | 0.99 in.  |
| Haunch Height   | 4.445 in. (specifies at 1.5 inch actual haunch)   |
| (From the top of the girder to the bottom of the concrete slab) |   |
| Beam Depth  | 29.50   |
| Beam Area   | 22.40   |
| Beam Moment   | 17.08   |
| Beam Moment of Inertia  | 3,105.00  |
| Beam Length, L = 8 ft   | 0.00 ft   |
| Top Cover Plate Thickness                                       | 0.00  |
| Bottom Cover Plate Thickness                                    | 0.00  |
| FOR PRE-CAST DECKS:   |   |
| Field Placed Concrete width                                     | 145 lb/cu ft  |



017 Feb 2009



2-26-09