



**ITEM SPECIAL - STRUCTURES: INSPECTION ACCESS**

IN ADDITION TO THE REQUIREMENTS OF 105.10, FURNISH, ERECT, AND MOVE SCAFFOLDING AND OTHER APPROPRIATE EQUIPMENT TO ALLOW THE INSPECTOR AND THE ENGINEER THE OPPORTUNITY TO CLOSELY OBSERVE ALL AFFECTED SURFACES DURING ALL PHASES OF THE WORK AND FOR AT LEAST 10 WORKDAYS AFTER COMPLETELY REPAIRING THE STRUCTURE TO ALLOW FOR THE FINAL INSPECTION. SUBMIT FULLY DETAILED ENGINEERED DRAWINGS OF THE SCAFFOLDING OR WORK PLATFORMS USED FOR INSPECTION ACCESS TO THE ENGINEER AT LEAST 14 DAYS BEFORE INSTALLATION. ALL DETAILS OF THE INSPECTION ACCESS SHALL COMPLY WITH THE APPLICABLE SAFETY REQUIREMENTS OF THE OHIO INDUSTRIAL COMMISSION AND OSHA. PROVIDE DETAILS AND LOCATIONS OF ALL CONNECTIONS TO THE PERMANENT STRUCTURE USED FOR REPAIRING AND INSPECTION OF THE STRUCTURE WITH THE ENGINEERED DRAWINGS. DAMAGE TO THE PERMANENT STRUCTURE SHALL BE AVOIDED. DO NOT DRILL INTO THE BOTTOM OF THE DECK OR UNDER BEARING LOCATIONS OR SIMILAR AREAS OF CONCERN FOR THE STRUCTURE. THE DETAILS SHALL BE REVIEWED, SIGNED, STAMPED AND DATED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER CERTIFYING THAT THEY MEET THESE REQUIREMENTS. THE ENGINEER WILL PROVIDE A WRITTEN RESPONSE TO THE SUBMITTAL IN ACCORDANCE WITH 105.02. DO NOT BEGIN WORK UNTIL THE ENGINEER'S ACCEPTANCE HAS BEEN RECEIVED. PERFORM ALL WORK IN ACCORDANCE WITH THE ACCEPTED ENGINEERING DRAWINGS. IMMEDIATELY CEASE ALL OPERATIONS THAT DEVIATE FROM THE ACCEPTED ENGINEERED DRAWINGS. IF A DEVIATION IS NECESSARY, PREPARE REVISED ENGINEERING DRAWINGS AS NOTED ABOVE AND FURNISH THE ENGINEER A COPY OF REVISED ENGINEERING DRAWINGS. DO NOT BEGIN WORK UNTIL THE REVISED DRAWINGS ARE ACCEPTED BY THE ENGINEER. MAINTAIN THE IN-PLACE INSPECTION ACCESS EQUIPMENT EMPLOYED DURING ORIGINAL BRIDGE REPAIR ACTIVITIES OR PROVIDE ALTERNATE INSPECTION EQUIPMENT SUCH AS PLATFORM LIFTS, BUCKET TRUCKS, SNOOPER TRUCKS, OR EQUIVALENT AS APPROVED BY THE ENGINEER. IF SCAFFOLDING, OR ANY HANGER ATTACHED TO THE SCAFFOLDING, IS SUPPORTED BY HORIZONTAL WIRE ROPES, OR IF SCAFFOLDING IS DIRECTLY UNDER THE SURFACE TO BE REPAIRED, COMPLY WITH THE FOLLOWING REQUIREMENTS:

A. IF SCAFFOLDING IS SUSPENDED 43 INCHES (1092 MM) OR MORE BELOW THE SURFACE TO BE REPAIRED, PLACE TWO GUARDRAILS ON ALL SIDES OF THE SCAFFOLDING. PLACE ONE GUARDRAIL AT 42 INCHES (1067 MM) ABOVE THE SCAFFOLDING AND THE OTHER GUARDRAIL AT 20 INCHES (508 MM) ABOVE THE SCAFFOLDING.

B. IF SCAFFOLDING IS SUSPENDED AT LEAST 21 INCHES (533 MM) BUT LESS THAN 43 INCHES (1092 MM) BELOW THE SURFACE TO BE REPAIRED, PLACE ONE GUARDRAIL ON ALL SIDES OF THE SCAFFOLDING AT 20 INCHES (508 MM) ABOVE THE SCAFFOLDING.

C. IF A AND B DO NOT APPLY, PLACE TWO GUARDRAILS ON ALL SIDES OF SCAFFOLDING. PLACE ONE GUARDRAIL AT 42 INCHES (1067 MM) ABOVE THE SCAFFOLDING AND THE OTHER GUARDRAIL AT 20 INCHES (508 MM) ABOVE SCAFFOLDING.

D. PROVIDE SCAFFOLDING AT LEAST 24 INCHES (610 MM) WIDE IF GUARDRAIL IS USED AND 28 INCHES (711 MM) WIDE IF GUARDRAIL IS NOT USED AND SCAFFOLDING IS SUSPENDED LESS THAN 21 INCHES (533 MM) BELOW THE SURFACE TO BE REPAIRED. IF USING TWO OR MORE PARALLEL SCAFFOLDING TO ACHIEVE THE PROPER WIDTH, RIGIDLY ATTACH THE SCAFFOLDING TOGETHER TO PREVENT DIFFERENTIAL MOVEMENT.

E. CONSTRUCT GUARDRAIL AS A SUBSTANTIAL BARRIER, SECURELY FASTENED IN PLACE AND FREE FROM PROTRUDING OBJECTS SUCH AS NAILS, SCREWS, AND BOLTS. PROVIDE A PROPERLY LOCATED OPENING IN THE GUARDRAIL TO ALLOW THE ENGINEER AND INSPECTOR ACCESS ONTO THE SCAFFOLDING.

F. CONSTRUCT GUARDRAILS AND UPRIGHTS OF METAL PIPE, STEEL ANGLES, OR WOOD. IF USING PIPE RAILING, PROVIDE PIPE WITH A NOMINAL DIAMETER OF AT LEAST 1 1/2 INCHES (38 MM). IF USING STEEL ANGLE RAILING, PROVIDE 2 X 2 X 3/8-INCH (50 X 50 X 9 MM) STEEL ANGLES OR OTHER METAL SHAPES OF EQUAL OR GREATER STRENGTH. IF USING WOOD RAILING, PROVIDE 2 X 4 INCH (50 X 100 MM) NOMINAL STOCK. SPACE UPRIGHTS NO MORE THAN 8 FEET (2.4 M) ON CENTER. IF USING WOOD UPRIGHTS, PROVIDE 2 X 4 INCH (50 @ 100 MM) NOMINAL STOCK.

G. IF THE SURFACE TO BE INSPECTED IS MORE THAN 15 FEET (4.57 M) ABOVE THE GROUND OR WATER, AND THE SCAFFOLDING IS SUPPORTED FROM THE STRUCTURE BEING REPAIRED, PROVIDE A SAFETY HARNESS (NOT A SAFETY BELT) AND LIFELINE FOR THE ENGINEER AND INSPECTOR. THE LIFELINE SHALL NOT ALLOW A FALL GREATER THAN 6 FEET (1.8 M). PROVIDE A METHOD TO ATTACH THE LIFELINE TO THE STRUCTURE THAT IS INDEPENDENT OF THE SCAFFOLDING, CABLES, AND BRACKETS SUPPORTING THE SCAFFOLDING.

H. IF SCAFFOLDING IS MORE THAN 2.5 FEET (762 MM) ABOVE THE GROUND, PROVIDE AN ACCESS LADDER AND EQUIPMENT TO ATTACH THE LADDER ONTO THE SCAFFOLDING CAPABLE OF SUPPORTING 250 POUNDS (113 KG) WITH A SAFETY FACTOR OF AT LEAST FOUR. UNIFORMLY SPACE RUNGS, STEPS, CLEATS, AND TREADS NO MORE THAN 12 INCHES (305 MM) ON CENTER. EXTEND AT LEAST ONE SIDE RAIL AT LEAST 36 INCHES (914 MM) ABOVE THE LANDING NEAR THE TOP OF THE LADDER.

I. IF THE DISTANCE FROM THE LADDER TO THE ACCESS POINT ON THE SCAFFOLDING EXCEEDS 12 INCHES (305 MM), PROVIDE AN ADDITIONAL LANDING THAT IS CAPABLE OF SUPPORTING A MINIMUM OF 1000 POUNDS (454 KG) AND AT LEAST 24 INCHES (610 MM) WIDE AND 24 INCHES (610 MM) LONG. SIZE AND SHAPE THE LANDING SO THAT THE DISTANCE FROM THE LANDING TO THE POINT WHERE THE SCAFFOLDING IS ACCESSED DOES NOT EXCEED 12 INCHES (305 MM). FIRMLY ATTACH THE LANDING TO THE LADDER; HOWEVER, DO NOT USE THE LADDER TO SUPPORT THE LANDING.

J. IN ADDITION TO THE SCAFFOLDING REQUIREMENTS ABOVE, COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, REGULATIONS, ORDERS, AND DECREES.

K. FURNISH ALL NECESSARY TRAFFIC CONTROL TO ALLOW INSPECTION DURING AND AFTER ALL PHASES OF THE PROJECT.

ALL LABOR, MATERIALS, AND INCIDENTALS INVOLVED WITH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM SPECIAL - STRUCTURES: INSPECTION ACCESS.

**VANDAL FENCING**

THE CONTRACTOR IS PERMITTED TO REMOVE A MAXIMUM OF 100 FEET OF THE EXISTING VANDAL FENCING (ALONG THE SUM-82-0000 BRIDGE DECK) AT A TIME DURING THE BRIDGE REPAIR OPERATIONS. WHEN THE CONTRACTOR IS NOT PRESENT, ALL FENCING IS TO BE REINSTALLED AS PER ITS PREVIOUS CONDITIONS PRIOR TO THE BEGINNING OF THE PROJECT. THIS WORK SHALL BE INCIDENTAL TO ITEM SPECIAL - STRUCTURES: INSPECTION ACCESS.

**COLUMN REPAIRS**

NO TWO VERTICAL COLUMNS WITHIN 50 FEET OF EACH OTHER CAN BE REPAIRED AT THE SAME TIME WITHOUT WRITTEN CONSENT FROM THE PROJECT ENGINEER.

Add plan page

SFN  
 7706871

DESIGN AGENCY



DESIGNER	CHECKER
MJA	TJP

REVIEWER	
TJP	5/17/24

PROJECT ID	
107247	

SUBSET	TOTAL
1A	28

SHEET	TOTAL
P.6A	33



