

GENERAL NOTES

FEDERAL REGION	STATE	PROJECT
5	OHIO	

PLAN NO. BR-103-82

REFERENCE SHALL BE MADE TO STANDARD DRAWING PS3D-1-81 DATED 9-18-81

DESIGN SPECIFICATIONS: THE STRUCTURE MODIFICATION CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1977, INCLUDING THE 1978, 1979, 1980, 1981, AND 1982 INTERIM SPECIFICATIONS AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN DATA:

DESIGN LOADING - HS20-44 AND THE ALTERNATE MILITARY LOADING

DESIGN STRESSES: CONCRETE CLASS C - UNIT STRESS 1333 PSI.  
REINFORCING STEEL - ASTM A615, A616, A617

GRADE 40 - UNIT STRESS 20,000 PSI.

CONCRETE FOR PRESTRESSED BEAMS - UNIT STRESS 2200 PSI.  
COMPRESSION

444 PSI. TENSION

PRESTRESSING STRAND - ASTM A416 F'S = 270,000 PSI.

DECK PROTECTION METHOD - MEMBRANE WATERPROOFING AND ASPHALT CONCRETE OVERLAY

ITEM 515 - PRESTRESSED CONCRETE BRIDGE MEMBERS, AS PER PLAN. THE PRESTRESSED CONCRETE BEAMS WILL BE PURCHASED BY THE STATE. THE BEAMS WILL BE DELIVERED TO THE PROJECT SITE BY THE FABRICATOR UPON REQUEST BY THE CONTRACTOR. ALL OTHER WORK ASSOCIATED WITH THIS ITEM INCLUDING THE ERECTION OF THE BEAMS SHALL BE INCLUDED WITH THE ITEM FOR PAYMENT. PLACEMENT OF THE ELASTOMERIC BEARING PADS WHICH WILL BE FURNISHED BY THE FABRICATOR SHALL BE INCLUDED FOR PAYMENT. THE FABRICATOR FOR THE PRESTRESSED BEAMS WILL BE PRE-STRESS SERVICES, INC., OF DECATUR, INDIANA. THE PHONE NUMBER IS 219-724-7117.

LAK-20-18.07

STRUCTURE REPAIR NOTES

8-19-82

PROPOSED WORK

1. REPLACE THE CENTER 40' ± OF THE EXISTING CONCRETE SLAB WITH 12" PRESTRESSED CONCRETE BOX BEAMS.
2. REPAIR AND RAISE THE ABUTMENT BRIDGE SEATS.
3. WATERPROOF AND OVERLAY THE BRIDGE WITH ASPHALT CONCRETE.

PROPOSED SEQUENCE OF OPERATIONS

THE CONTRACTOR SHALL FOLLOW THIS PROPOSED SEQUENCE OF OPERATIONS UNLESS A REVISED SEQUENCE HAS BEEN SUBMITTED AND APPROVED PRIOR TO ANY OPERATIONS.

1. INSTALL TRAFFIC CONTROL.
2. CLOSE THE USR 20 BRIDGE OVER THE F.P.&E. RR TO TRAFFIC.

3. REMOVE THE EXISTING CONCRETE DECK SLAB, UNSOUND SEAT CONCRETE, EXPOSED SEAT REINFORCING STEEL AND ANY LOOSE BRICKS.
4. RAISE ABUTMENT BRIDGE SEATS AND FILL THE THREE CORE HOLES ON APPROACH SLABS WITH ITEM 511 - CLASS C CONCRETE, SUBSTRUCTURE.
5. INSTALL THE PRESTRESSED CONCRETE BOX BEAMS INCLUDING TRANSVERSE THE RODS, ANCHOR DOWELS AND JOINT SEALER AND FILLER.
6. PLACE MAGNESIUM PHOSPHATE CONCRETE ALONG THE BEAM EDGE TREATMENT AREAS.
7. PLACE ITEM 402 - ASPHALT CONCRETE IN THE HOLES IN THE BRICK PAVEMENT, ON THE REMAINING PORTIONS OF THE EXISTING DECK, ON TOP OF THE EXISTING BRICK PAVEMENT AND IN THE AREAS OF DEEPER SCARIFICATION.
8. PLACE WATERPROOFING MEMBRANE ON BRIDGE FROM CURB TO CURB AND TO TWO FEET OUTSIDE EACH BRIDGE LIMIT.
9. PLACE REMAINING ASPHALT CONCRETE.
10. INSTALL PAVEMENT MARKINGS.
11. OPEN USR 20.
12. REMOVE TRAFFIC CONTROL.

ITEM 614 - MAINTENANCE OF TRAFFIC

GENERALLY, THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AS TO MAKE THE PROPOSED REPAIR WITH A MINIMUM OF HAZARD, DELAY, AND INCONVENIENCE TO THE MOTORISTS USING THE HIGHWAYS AFFECTED BY THE WORK DONE UNDER THIS CONTRACT. FURTHERMORE, THE FOLLOWING SPECIFIC PROVISIONS ARE MANDATORY:

I. NOTIFICATION

SINCE FUNCTIONAL TRAFFIC CONTROL IS A MAJOR CONCERN OF THIS PROJECT IT IS ESSENTIAL THAT THE MOTORING PUBLIC BE ADEQUATELY FOREWARNED OF FUTURE HIGHWAY CLOSURES. THEREFORE THE CONTRACTOR SHALL SUBMIT A SCHEDULE TO THE OHIO DEPARTMENT OF TRANSPORTATION INDICATING THE CLOSURE DATE AT LEAST TWO WEEKS PRIOR TO ITS IMPLEMENTATION.

II. NIGHTTIME WORK

NIGHTTIME WORK SHALL BE ENCOURAGED AND PERMITTED IN ACCORDANCE WITH THESE PLANS AND NOTES IN ORDER TO ASSURE

THE SAFEST CONDITIONS DURING NIGHTTIME WORK THE CONTRACTOR SHALL PROVIDE FLOOD LIGHTING OF THE WORK AREA.

III. RESTRICTIONS

THE DETOUR AND ROAD CLOSING WILL NOT OCCUR UNTIL THE PRESTRESSED CONCRETE BOX BEAMS AND ALL OTHER MATERIALS ARE AVAILABLE FOR THE CONTRACTOR'S USE.

IV. TRAFFIC CONTROL SYSTEMS

A. WHEN REQUIRED

ALL NECESSARY DETOUR SIGNING SHALL BE IN PLACE BEFORE THE USR-20 BRIDGE OVER THE F.P.&E. RR IS CLOSED TO TRAFFIC.

B. DETOUR AND CLOSURE SIGNING

THE CONTRACTOR SHALL ERECT THE DETOUR AND ROAD CLOSURE TRAFFIC CONTROL FOR THE CLOSING OF USR-20 OVER THE F.P.&E. RR AS SHOWN ON SHEET 2. THE CONTRACTOR SHALL SUPPLY THE MATERIALS, LABOR AND EQUIPMENT NECESSARY TO ACCOMPLISH THIS WORK.

C. FAILURE TO COMPLY

IF THERE IS ANY FAILURE TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL SET FORTH IN THESE PLANS AND NOTES OR WITH THE PROVISIONS OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, HEREAFTER REFERRED TO AS THE "MANUAL", THE AFFECTED HIGHWAY SHALL NOT BE CONSIDERED IN A CONDITION FOR THE SAFE AND CONVENIENT USE BY THE TRAVELLING PUBLIC WHICH SHALL CONSTITUTE A BREACH OF THIS CONTRACT. WORK SHALL BE SUSPENDED UNTIL THE CONTRACTOR COMPLIES WITH THE PROVISIONS OF THE AFOREMENTIONED ITEMS.

V. TRAFFIC CONTROL MATERIAL

A. SIGNS

SIGN DIMENSIONS AND SPECIFICATIONS, INCLUDING LETTER SIZES, SHALL BE AS PROVIDED IN THE "MANUAL" OR IN SIGN DESIGN DRAWINGS PROVIDED BY THE DEPARTMENT OF TRANSPORTATION. THE SIGNS SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER PRIOR TO THE START OF THE PROJECT.

B. SIGN SUPPORTS

SIGN SUPPORTS SHALL BE OF SUFFICIENT SIZE AND HEIGHT AS TO SUPPORT THE SIGNS AT THE HEIGHTS INDICATED IN THE "MANUAL" ON PLATE C-1. SUPPORTS SHALL ALSO BE ADEQUATE IN MASS AND STABILITY TO PREVENT THE SIGNS BEING BLOWN OVER BY WIND OR VEHICULAR GENERATED AIR TURBULENCE.

C. LIGHTING DEVICES

FLASHERS SHALL BE 12 VOLT BATTERY-OPERATED MODELS WITH 1 1/2 INCH DIAMETER YELLOW LENSES ILLUMINATED BY RAPID INTERMITTENT FLASHES OF SHORT DURATION AND SHALL BE PLACED ON ALL SIGNS AT ALL TIMES.

STATE OF OHIO DEPARTMENT OF TRANSPORTATION BUREAU OF BRIDGES AND STRUCTURAL DIVISION		6/9
GENERAL NOTES		
BRIDGE NO. LAK-20-1807 OVER F.P.&E. RAILROAD		
DESIGNED	DRAWN	TRACED
CHECKED	REVIEWED	REVISED
TGC		