

FHWA REGION	STATE	PROJECT	
5	OHIO		

LAKE COUNTY  
LAK-20-29.76

PLAN NO. BR-55-84

# GENERAL NOTES

## LIMITATION OF OPERATIONS

THE CONTRACTOR'S ACTIVITIES AND WORK SCHEDULE SHALL BE CONSTRAINED BY THE FOLLOWING SPECIAL LIMITATIONS:

NO LANE CLOSURES SHALL BE IMPLEMENTED OR IN PLACE DURING THE PERIOD BEGINNING NOVEMBER 15TH AND ENDING MARCH 15TH.

## ITEM 614 - MAINTAINING TRAFFIC

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

### I. NOTIFICATION

SINCE FUNCTIONAL TRAFFIC MAINTENANCE IS A MAJOR CONCERN OF THIS PROJECT IT IS ESSENTIAL THAT THE MOTORING PUBLIC BE ADEQUATELY FORWARDED OF FUTURE LANE CLOSURES AND TRAFFIC CONSTRUCTIONS. THEREFORE, THE CONTRACTOR SHALL SUBMIT A SCHEDULE TO THE OHIO DEPARTMENT OF TRANSPORTATION INDICATING THE LOCATION AND DATE OF EACH LANE CLOSURE AT LEAST TWO WEEKS PRIOR TO THE IMPLEMENTATION OF ANY SUCH CLOSURES.

### II. MAINTENANCE OF TRAFFIC SYSTEMS

#### A. MINIMUM PROVISIONS

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL DEVICES AS REQUIRED BY THE PLANS AND SPECIFICATIONS AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, HEREINAFTER REFERRED TO AS THE "MANUAL". TWO-WAY TRAFFIC ON ONE 13-FOOT MINIMUM LANE SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY SIGNALS AS SHOWN IN THE MAINTENANCE OF TRAFFIC PLANS SHALL BE USED IN LIEU OF FLAGMEN. THE TRAFFIC CONTROL SYSTEMS IN THE "MANUAL" AND THESE PLANS CONSTITUTE THE MINIMUM PROVISIONS FOR MAINTAINING TRAFFIC. WHENEVER THE ENGINEER DEEMS ADDITIONAL OR ALTERNATIVE DEVICES NECESSARY, HE MAY DIRECT THAT THEY BE USED.

#### B. ADVANCE WARNING SIGNS

ALL ADVANCE WARNING SIGNS FOR ANY TRAFFIC RESTRICTION SHALL BE ERECTED BEFORE SUCH RESTRICTION IS PUT INTO EFFECT. ALL SIGNS SHALL BE COVERED OR REMOVED FROM THE VIEW OF TRAFFIC WHENEVER THEY ARE NOT APPLICABLE.

#### C. CONDITIONS

A MINIMUM 13-FOOT LANE SHALL BE MAINTAINED DURING BRIDGE WORK AS SHOWN IN THE MAINTENANCE OF TRAFFIC PLANS.

#### D. FLASHING ARROW REQUIREMENT

FLASHING ARROWS WILL BE REQUIRED AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS.

#### E. FAILURE TO COMPLY

IF THERE IS ANY FAILURE TO COMPLY WITH THE PROVISIONS FOR TRAFFIC MAINTENANCE SET OUT IN THE PLANS, NOTES OR "MANUAL", THE HIGHWAY IN THE VICINITY OF THE WORK AREA SHALL NOT BE CONSIDERED IN A CONDITION FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC, WHICH SHALL BE CONSIDERED A BREACH OF THIS CONTRACT. WORK SHALL BE SUSPENDED UNTIL THE CONTRACTOR COMPLIES WITH THE PROVISIONS OF THE AFOREMENTIONED ITEMS.

### III. MAINTENANCE OF TRAFFIC MATERIAL

#### A. SIGNS

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

#### B. SIGN SUPPORTS

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

#### C. CONES

STANDARD RUBBER OR PLASTIC CONES SHALL BE USED. CONES SHALL BE AT LEAST 36" HIGH AND SHALL BE PREDOMINANTLY ORANGE IN COLOR. ALL CONES SHALL HAVE WEIGHTED BASES.

#### D. DRUMS

DRUMS SHALL CONFORM TO THE PERTINENT SECTIONS OF THE "MANUAL". ALL COSTS FOR INSTALLATION, MAINTENANCE AND SUBSEQUENT REMOVAL OF SAID DRUMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 - MAINTAINING TRAFFIC.

#### E. FLASHING ARROWS

THE ELECTRIC FLASHING ARROWS SHALL BE TYPE A AS SHOWN ON STANDARD DRAWING TC-35.10. PAYMENT FOR FLASHING ARROWS SHALL BE INCLUDED UNDER ITEM 614 - MAINTAINING TRAFFIC.

### IV. SIGNALIZED CLOSING

#### A. DRUMS SHALL BE PLACED AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS.

#### B. SIGNALS SHALL BE INSTALLED AND OPERATED IN ACCORDANCE WITH THE REQUIREMENTS OF PART 6 OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

#### C. ADEQUATE AREA ILLUMINATION TO CLEARLY IDENTIFY THE WORK AREA AT NIGHT SHALL BE PROVIDED BY USING A 150 WATT MINIMUM HIGH PRESSURE SODIUM LUMINAIRE OR 250 WATT MINIMUM MERCURY LUMINAIRE. THE LUMINAIRE SHALL BE LOCATED ADJACENT TO ONE SIGNAL AS SHOWN IN THE MAINTENANCE OF TRAFFIC PLANS. THE MOUNTING HEIGHT FOR THE TEMPORARY LUMINAIRE SHALL BE A MINIMUM OF 27 FEET ABOVE THE PAVEMENT AND THE OVERHEAD CONDUCTOR CLEARANCE SHALL BE 20 FEET ABOVE THE PAVEMENT.

#### D. TEMPORARY NO PASSING LINES AND STOP LINES SHALL BE INSTALLED. REMOVABLE PAVEMENT MARKINGS MAY BE USED. EXISTING CONFLICTING PAVEMENT MARKINGS BETWEEN THE WORK AREA AND STOP LINE SHALL BE REMOVED. AFTER COMPLETION OF WORK, TEMPORARY MARKINGS SHALL BE REMOVED IN ACCORDANCE WITH 621.134.

#### E. THE TYPE "A" FLASHING BARRICADE WARNING LIGHTS SHALL BE MOUNTED ON DESIGNATED ADVANCE WARNING SIGNS AT ALL TIMES.

#### F. TYPE "C" STEADY BURNING BARRICADE WARNING LIGHTS SHALL BE MOUNTED ON ALL DRUMS.

#### G. CONTRACTOR MUST SUBMIT A SIGNAL PHASING DIAGRAM AND TIMING CHART ONE WEEK PRIOR TO SIGNAL OPERATION FOR APPROVAL BY THE ENGINEER.

#### H. WHEN SIGNALS ARE NOT IN USE THEY MUST BE REMOVED OR BAGGED.

#### I. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE 24-HOUR PER DAY MAINTENANCE OF THE ONE LANE ROAD TRAFFIC SIGNALS. THE CONTRACTOR SHALL CORRECT ALL OUTAGES OR MALFUNCTIONS AS QUICKLY AS POSSIBLE. A DAY AND NIGHT TELEPHONE NUMBER WITH CONTRACTORS' CONTACT PERSON MUST BE SUPPLIED TO THE LOCAL POLICE AGENCIES AND O.D.O.T. THE ELAPSED TIME BETWEEN THE SIGNAL PROBLEM CALL AND SERVICEMAN'S ARRIVAL AT THE PROJECT SITE SHALL

NOT EXCEED 60 MINUTES. SIGNAL INSTALLATION AND MAINTENANCE SHALL BE PERFORMED ONLY BY A QUALIFIED SIGNAL MAINTENANCE ORGANIZATION.

#### J. SIGNAL AND CLOSURE INSTALLATIONS SHALL BE MADE ONLY DURING DAYLIGHT ON MONDAY THROUGH THURSDAY.

#### K.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE A SEPARATE POWER SERVICE CONNECTION POINT TO THE LOCAL POWER COMPANY TO PROVIDE ELECTRICAL POWER TO HIS CONSTRUCTION SIGNAL

- L. SIGNAL WIRING OTHER THAN OVERHEAD AND UNDERGROUND MUST BE APPROVED BY THE ENGINEER. THE ALTERNATE WIRING MUST BE PROTECTED BY CONDUIT COUPLED TOGETHER OR BY DUCT. ALL SPLICES SHALL BE MADE BY APPROVED SPLICE KITS INSTALLED IN PULL BOXES OR APPROVED ENCLOSURES.
- M. ALL TRAFFIC SIGNALS AND EQUIPMENT USED IN THIS SIGNAL INSTALLATION, SUCH AS A SIGNAL CABLE AND SIGNAL HEADS, SHALL BE IN CONFORMANCE WITH SPECIFICATIONS 632 AND 732. HOWEVER, THE PERFORMANCE TEST PROVISION NOTED IN SPECIFICATION 632.27, PARAGRAPH 6 AND THE WORKING DRAWING REQUIREMENTS OF 632.03 ARE WAIVED. THE CONTROLLER, FLASHERS, LOAD SWITCHES, CONFLICT MONITOR AND OTHER CONTROLLER ACCESSORIES SHALL COMPLY WITH SUPPLEMENTAL SPECIFICATIONS 861 AND 961, EXCEPT THAT THE REQUIREMENTS OF 861.03 AND 861.05 ARE WAIVED. USED EQUIPMENT MEETING CURRENT ODOT SPECIFICATIONS IS ACCEPTABLE. CONFLICT MONITORS SHALL BE FURNISHED AT ALL LOCATIONS UNLESS AN ELECTRO-MECHANICAL PRETIMED CONTROLLER CAM SHAFT IS PROVIDED. WHEN THE SIGNAL IS CHANGED TO A FLASH CONDITION EITHER MANUALLY OR AUTOMATICALLY, RED SHALL BE FLASHED TO BOTH APPROACHES.

### V. PAYMENT

PAYMENT FOR PROVIDING, ERECTING, MAINTAINING AND REMOVING TEMPORARY TRAFFIC CONTROL DEVICES AND SIGNALS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR THE ITEM 614 - MAINTAINING TRAFFIC.

### RIGHT OF WAY

ALL WORK WILL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY.

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### CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR PLAN ITEMS SET UP TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER.

### ITEM 202 - BRIDGE TERMINAL ASSEMBLY REMOVED

THIS ITEM SHALL CONSIST OF REMOVING THE COMPLETE BRIDGE TERMINAL ASSEMBLY CONSISTING OF THE RAIL, POSTS AND ENCASUREMENTS AND THE FILLING OF THE RESULTING HOLES SO AS TO PROVIDE A STABLE, EVEN SHOULDER FOR NEW GUARDRAIL CONSTRUCTION.

### ITEM 404 - ASPHALT CONCRETE AC-20

THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER TO FEATHER EXISTING APPROACH ASPHALT PAVEMENT TO THE NEW ASPHALT ON THE APPROACH SLABS. SEE ITEM SPECIAL - PAVEMENT PLANING, BITUMINOUS, WITHOUT HEAT.  
ITEM 404 - ASPHALT CONCRETE AC-20 . . . . . 7 CUBIC YARDS

### ITEM 606 - GUARDRAIL REBUILT, TYPE 5, AS PER PLAN.

THE GUARDRAIL SHALL BE COMPLETELY INSTALLED ON THE NORTH SIDE DURING PHASE 1 PRIOR TO THE IMPLEMENTATION OF PHASE 2 AND ON THE SOUTH SIDE DURING PHASE 2 PRIOR TO OPENING THE ROAD TO TRAFFIC. THE REMOVAL OF ALL GUARDRAIL SHALL AT ALL TIMES BE AS DIRECTED BY THE ENGINEER. INCLUDED IN THIS ITEM SHALL BE THE COST OF CUTTING THE EXISTING GUARDRAIL AND PLACING NEW GUARDRAIL POSTS AT THE LOCATIONS SHOWN IN THE PLANS. THE LOCATIONS OF GUARDRAIL RUNS, AS SHOWN IN THESE PLANS, ARE SUBJECT TO ADJUSTMENT PRIOR TO FINAL ACCEPTANCE. THE ENGINEER SHALL BE SATISFIED THAT ALL INSTALLATIONS WILL AFFORD MAXIMUM PROTECTION FOR TRAFFIC.