

# MAINTENANCE OF TRAFFIC

CALC. BY DATE	PSL 2/90	LAK - 306 - 7.12	OHIO	17 452
CHKD. BY DATE	DJW 4/90		FHWA REGION	

## NOTIFICATION

THE CONTRACTOR SHALL CONDUCT HIS OPERATION AS TO CONSTRUCT THE PROPOSED IMPROVEMENT WITH A MINIMUM OF HAZARD, DELAY AND INCONVENIENCE TO THE MOTORISTS USING THE HIGHWAY AFFECTED BY THE WORK BEING DONE UNDER THIS CONTRACT. THROUGH TRAFFIC LANES OF 11 FEET MINIMUM EFFECTIVE WIDTH SHALL BE MAINTAINED AT ALL TIMES.

THE CITY OF MENTOR POLICE, FIRE AND PUBLIC WORKS DEPARTMENTS AND THE MENTOR EXEMPTED VILLAGE BOARD OF EDUCATION SHALL BE NOTIFIED AT LEAST ONE (1) WEEK PRIOR TO THE ACTUAL START OF CONSTRUCTION BY THE CONTRACTOR.

CITY OF MENTOR POLICE DEPARTMENT RICHARD A. AMIOTT, CHIEF	255-8856
CITY OF MENTOR FIRE DEPARTMENT JOHN D. PREUER, CHIEF	255-1215
CITY OF MENTOR, ENGINEERING DEPT. JOHN KONRAD, CITY ENGINEER	255-1100
CITY OF MENTOR DEPARTMENT OF PUBLIC WORKS ALVIN E. BEASLEY, DIRECTOR	255-1100
MENTOR EXEMPTED VILLAGE BOARD OF EDUCATION HARRY G. WATERMAN, DIRECTOR OF TRANSPORTATION	255-4444

## SYSTEM FOR MAINTAINING TRAFFIC

WHENEVER ANY TRAVELED SURFACE IS BEING WORKED ON OR OTHERWISE NOT SUITABLE FOR SAFE AND CONVENIENT USE BY VEHICLES, TRAFFIC CONTROL DEVICES SUFFICIENT TO PROTECT SUCH AREAS AND TO ASSURE THE SAFE PASSAGE OF VEHICULAR TRAFFIC SHALL BE INSTALLED AND MAINTAINED. SUCH TRAFFIC CONTROL DEVICES AND THE MANNER IN WHICH THEY ARE USED SHALL BE CONSISTENT WITH THESE PLANS AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, HEREINAFTER REFERRED TO AS THE MANUAL. THE TRAFFIC CONTROL DEVICE SYSTEM CONTAINED HEREIN SHALL CONSTITUTE THE MINIMUM PROVISIONS FOR TRAFFIC CONTROL FOR EACH PARTICULAR SITUATION. WHENEVER THE ENGINEER DEEMS IT NECESSARY, HE MAY DIRECT THAT ADDITIONAL OR ALTERNATIVE DEVICES BE USED. ALSO THE CONTRACTOR SHALL PROVIDE SUFFICIENT ADDITIONAL BARRICADES, ETC. TO PROTECT THE FRESH CONCRETE DURING THE CURING PERIOD FROM ANY VEHICLES WHICH DRIVE AROUND OR THROUGH THE TRAFFIC CONTROL.

TRAFFIC CONTROL DEVICES SHALL BE SET UP PRIOR TO THE START OF CONSTRUCTION, AND SHALL BE PROPERLY MAINTAINED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST. THEY SHALL REMAIN IN PLACE ONLY AS LONG AS THEY ARE NEEDED AND SHALL BE IMMEDIATELY REMOVED THEREAFTER. WHERE OPERATIONS ARE PERFORMED IN PHASES, THERE SHALL BE IN PLACE ONLY THOSE DEVICES THAT APPLY TO THE CONDITION PRESENT DURING THE PHASE IN PROGRESS. ALL SIGNS WITH MESSAGES WHICH DO NOT APPLY DURING A CERTAIN PERIOD SHALL BE COVERED OR SET ASIDE OUT OF THE VIEW OF TRAFFIC.

## ADVANCE WARNING SIGNS

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

## PROTECTION OF PUBLIC

THE CONTRACTOR SHALL SUBMIT TO THE DIRECTOR A COMPLETE SCHEDULE OF CONSTRUCTION OPERATIONS ALONG WITH PLANS DETAILING AND ILLUSTRATING HIS PROPOSED METHODS FOR PROTECTING VEHICULAR TRAFFIC FOR ALL PHASES OF CONSTRUCTION. THESE PLANS MUST BE SUBMITTED AND APPROVED PRIOR TO COMMENCING ANY WORK. NO WORK SHALL BE STARTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

SHOULD THE CONTRACTORS' PLANS FOR PUBLIC PROTECTION BE DEEMED INADEQUATE BY THE ENGINEER, ADDITIONAL CLOSURES AND/OR DIVERSIONS WILL BE REQUIRED AT NO COST TO THE STATE.

## RESTRICTIONS

NO TRAFFIC LANE CLOSURES EXCEPT AS SHOWN ON MAINTENANCE OF TRAFFIC PLANS SHALL BE ALLOWED.

THE CONTRACTORS SHALL NOT ROUTE OR DIRECT TRAFFIC ON BOTH SIDES OF A LANE CLOSURE.

THE CONTRACTORS SHALL FURNISH, ERECT, MAINTAIN AND REMOVE ALL SIGNS AND ROADWAY MARKINGS REQUIRED FOR MAINTENANCE OF TRAFFIC DURING CONSTRUCTION AS SHOWN ON THESE PLANS.

NO STOPPAGE OF TRAFFIC OR ESTABLISHMENT OF LANE RESTRICTIONS SHALL OCCUR WITHOUT LAW ENFORCEMENT PERSONNEL AT EACH LOCATION TO DIRECT TRAFFIC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER NOTIFICATION TO AND COORDINATION WITH THE CITY OF MENTOR POLICE DEPARTMENT AND FOR ALL COSTS ASSOCIATED WITH LAW ENFORCEMENT PERSONNEL ASSISTANCE. SEE ADDITIONAL NOTES REGARDING LAW ENFORCEMENT OFFICER WITH PATROL CAR, NEXT SHEET.

## CONDITIONS

DURING ALL PARTS OF THIS PROJECT, SIGNING, BARRICADES, TEMPORARY PAVEMENT MARKINGS, ETC., SHALL BE AS DETAILED IN THE MAINTENANCE OF TRAFFIC PLANS. THE NUMBER OF LANES AND THE MINIMUM LANE WIDTHS MAINTAINED SHALL BE AS INDICATED ON THE MAINTENANCE OF TRAFFIC SHEETS.

## FAILURE TO COMPLY

IF THERE IS ANY FAILURE TO COMPLY WITH PROVISIONS FOR TRAFFIC CONTROL SET OUT IN THESE PLANS AND NOTES, OR WITH THE PROVISIONS OF THE MANUAL, THE HIGHWAY IN THE VICINITY OF THE WORK AREA SHALL BE CONSIDERED IN A CONDITION UNACCEPTABLE FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC. ANY FAILURE TO KEEP THE HIGHWAY IN THE VICINITY OF THE WORKING AREA IN A CONDITION ACCEPTABLE FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC SHALL BE CONSIDERED A BREACH OF THIS CONTRACT. WORK SHALL BE SUSPENDED UNTIL THE CONTRACTOR COMPLIES WITH THE PROVISION OF THE AFOREMENTIONED ITEMS.

## MATERIAL FOR MAINTAINING TRAFFIC

### SIGNS

SIGN DIMENSION 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 APPROVAL BY THE ENGINEER PRIOR TO THE START OF THE PROJECT. ALL COST FOR INSTALLING, MAINTAINING AND SUBSEQUENT REMOVAL OF SAID SIGNS SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

### SIGN SUPPORTS

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

### LIGHTING DEVICES

TYPE "C" STEADY BURNING WARNING LIGHTS SHALL BE ERECTED ON DRUMS USED IN TWILIGHT OR NIGHT TIME CLOSURES. ALL COST FOR INSTALLING, MAINTAINING, AND SUBSEQUENT REMOVAL OF THESE DEVICES ON DRUMS SHALL BE IN THE LUMP SUM BID PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

### DRUMS

DRUMS SHALL BE LOCATED AS PER THE MAINTENANCE OF TRAFFIC PLANS. ALL COST FOR INSTALLING, MAINTAINING AND SUBSEQUENT REMOVAL OF SAID DRUMS SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

### WORK ZONE PAVEMENT MARKINGS

PAVEMENT MARKINGS SHALL BE OF THE TYPE AND LOCATION AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS, AND SHALL BE IN ACCORDANCE WITH STANDARD DRAWING MT-99.10.

## ITEM 614 - MAINTAINING TRAFFIC

THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIFICATION 614. TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, TEMPORARY PAVEMENT AND COMPLETED PERMANENT PAVEMENT. THE LIMITS AND DURATION OF USE OF TEMPORARY PAVEMENT SHALL BE HELD TO AN ABSOLUTE MINIMUM AND IN ALL CASES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

ONE WAY TRAFFIC SHALL BE MAINTAINED FOR ACCESS TO PARTICULAR SIDE STREETS AS DETAILED IN THE CONSTRUCTION SEQUENCE NOTES ON SHEET NOS. 18 THROUGH 20 AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PERMANENT PAVEMENT AND TEMPORARY ROADWAYS SURFACED WITH 410 AGGREGATE AND STABILIZED WITH ITEM 616 CALCIUM CHLORIDE. THE LIMITS AND USE OF TEMPORARY ROADWAYS SHALL BE HELD TO AN ABSOLUTE MINIMUM AND IN ALL CASES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

ACCESS SHALL BE MAINTAINED AT ALL TIMES TO ALL ABUTTING PROPERTIES BY USE OF THE EXISTING DRIVEWAY, TEMPORARY DRIVEWAY OR COMPLETED PERMANENT DRIVEWAY. ACCESS DURING ROADWAY PAVING OPERATIONS AND DRIVEWAY PAVING OPERATIONS SHALL BE AS PER THE PLAN NOTES AND DETAILS ON SHEET NOS. 18 THROUGH 44. TEMPORARY DRIVEWAYS SHALL BE SURFACED WITH 410 AGGREGATE AND STABILIZED WITH ITEM 616 CALCIUM CHLORIDE. THE LIMITS AND USE OF TEMPORARY DRIVEWAYS SHALL BE HELD TO AN ABSOLUTE MINIMUM AND IN ALL CASES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 404 - BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC	250 C.Y.
ITEM 410 - TRAFFIC COMPACTED SURFACE TYPE C	10,000 C.Y.
ITEM 616 - CALCIUM CHLORIDE	100 TON
ITEM 616 - WATER	1000 M-GAL.

SEPARATE PAYMENT SHALL BE MADE FOR ITEMS 404, 410 AND 616 NOTED ABOVE. SEPARATE PAYMENT SHALL ALSO BE MADE FOR ITEM 614 - WORK ZONE AND TEMPORARY PAVEMENT MARKINGS, ITEM 615 - TEMPORARY PAVEMENT, ITEM 615 - TEMPORARY ROADS, ITEM 622 - TEMPORARY CONCRETE BARRIER, ITEM 502 - TEMPORARY STRUCTURE (FOR CULVERT EXTENSION), ITEM SPECIAL - REPLACEMENT SIGNS, ITEM SPECIAL - REPLACEMENT DRUMS ITEM SPECIAL - LAW ENFORCEMENT OFFICER WITH PATROL CAR AND ITEM 614 - BARRIER REFLECTORS. ALL OTHER WORK REQUIRED FOR TRAFFIC MAINTENANCE SHALL BE INCLUDED WITH PAYMENT FOR ITEM 614 - MAINTAINING TRAFFIC.

## ACCESS TO INTERSECTING STREETS

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY SAFEGUARDS, AND OTHER TRAFFIC CONTROL DEVICES AS PROVIDED IN ITEM 614 - MAINTAINING TRAFFIC, SO AS TO AVOID DAMAGE AND/OR INJURY TO VEHICLES AND PERSONS USING THE INTERSECTING STREETS DURING CONSTRUCTION.

WHEN INTERSECTING STREETS ARE CLOSED AT ROUTE 306 OR REDUCED TO ONE WAY ACCESS, AS DESCRIBED IN THE SEQUENCE OF OPERATIONS, THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, AND SUBSEQUENTLY REMOVE, UPON COMPLETION OF THE WORK, SIGNS AND BARRICADES FOR THE PURPOSE OF PROVIDING ADVANCE WARNING OF SUCH CLOSINGS OR REDUCTIONS. REDUCTION TO ONE WAY ACCESS SHALL BE MAINTAINED AS PER THE PHASE CONSTRUCTION DETAILS SHOWN ON SHEET NO. 39. THE CONTRACTOR SHALL NOTIFY THE POLICE, FIRE, AND SERVICE DEPARTMENTS OF MENTOR AT LEAST 72 HOURS BEFORE CLOSING OR REDUCING ACCESS TO ANY STREETS.

PAYMENT FOR LABOR AND EQUIPMENT REQUIRED FOR THE CONSTRUCTION, MAINTENANCE AND SUBSEQUENT REMOVAL OF APPROACHES, BY-PASSES, DRIVEWAYS, BARRICADES, LIGHTS, TEMPORARY TRAFFIC DELINEATIONS, FLAGGERS, SIGNS AND SIGN SUPPORTS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

## ACCESS TO ABUTTING PROPERTIES DURING ROADWAY PAVING OPERATIONS

ACCESS SHALL BE MAINTAINED TO ALL ABUTTING PROPERTIES AT ALL TIMES BY USE OF EXISTING DRIVEWAYS AND TEMPORARY DRIVEWAYS DURING ROADWAY PAVING OPERATIONS. ACCESS SHALL BE MAINTAINED AS PER THE PHASE CONSTRUCTION DETAILS SHOWN ON SHEET NO. 44. ACCESS SHALL BE INCORPORATED INTO THE APPROPRIATE SECTION AND PHASE OF CONSTRUCTION BY THE CONTRACTOR. TEMPORARY ACCESS SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE CLOSING OF ANY EXISTING POINT.