

GENERAL NOTES

MAINTAINING TRAFFIC

GENERAL CONSTRUCTION SEQUENCE

THE CONTRACTOR IS REMINDED THAT IN THE CONDUCT OF THE PROJECT, HIS SEQUENCE OF OPERATIONS SHALL BE PLANNED AND EXECUTED IN SUCH A WAY AS TO MINIMIZE THE NUMBER OF LANE REDUCTIONS AND/OR LANE WIDTH REDUCTIONS REQUIRED TO MAINTAIN TRAFFIC THROUGH THE PROJECT. IN THIS REGARD, WHEN A TRAFFIC LANE IS CLOSED, ALL FULL DEPTH AND PARTIAL DEPTH REPAIRS SHALL BE PERFORMED IN AN ORDERLY SEQUENCE SUCH THAT IT WILL NOT BE NECESSARY TO AGAIN CLOSE THAT LANE UNTIL THE ASPHALT OVERLAY AND PAVEMENT MARKING OPERATIONS BEGIN.

IT IS ALSO REQUIRED OF THE CONTRACTOR TO HAVE ALL NORMAL LANES OF TRAFFIC OPENED THROUGHOUT THE WINTER SEASON (NOVEMBER 15TH THRU APRIL 1ST). NO LANE RESTRICTIONS, INCLUDING RAMPS, SHALL BE ALLOWED DURING THIS TIME. THE CONTRACTOR IS CAUTIONED TO SCHEDULE HIS WORK, ESPECIALLY ASPHALT OVERLAYS, TO MEET THIS REQUIREMENT.

EXISTING SIGNS (INCLUDING OVERHEAD) AND SUPPORTS THAT ARE BEING REPLACED SHALL NOT BE REMOVED UNTIL THE NEW SIGN AND SIGN SUPPORTS ARE ERECTED.

MAJOR WORK ITEMS

THE FOLLOWING MAJOR WORK ITEMS WILL REQUIRE TRAFFIC MAINTENANCE PROCEDURES WHICH SHALL BE INCORPORATED INTO THE CONTRACTOR'S SEQUENCE OF OPERATIONS.

- A. INSTALLATION OF NEW UNDERDRAINS
- B. LANE AND SHOULDER ADDITION
- C. REPAIR OF PAVEMENTS AND JOINTS
- D. ASPHALT CONCRETE OVERLAY
- E. PAVEMENT MARKINGS
- F. INSTALLATION OF GUARDRAIL
- G. INSTALLATION, MODIFICATION OR RELOCATION OF OVERHEAD SIGN SUPPORTS
- H. INSTALLATION OF NEW OVERHEAD SIGNS
- I. INSTALLATION OF GROUND MOUNTED SIGNS
- J. REPAIR AND RESTORATION OF DRAINAGE ITEMS
- K. OVERHEAD STRUCTURE RESTORATION
- L. INSTALLATION OF FENCE
- M. CONCRETE SHOULDER ADDITION

CONSTRUCTION SEQUENCE PHASES

THE CONTRACTOR SHALL PERFORM THE WORK REQUIRED FOR THIS PROJECT IN CONFORMANCE WITH THE FOLLOWING PHASES:

PHASE I - STA. 320+11 TO STA. 139+40 E.B.
 MAINTAIN 2 LANES USING PORTABLE CONCRETE BARRIER (LENGTH = 18,322 L.F.)
 1. CONSTRUCT NEW LANE AND LEFT SHOULDER, NEW UNDERDRAIN, DRAINAGE, REHABILITATION OF BOTTOM OF OVERHEAD STRUCTURE.
 2. ITEM 301 INTERMEDIATE COURSE
 STA. 139+40 TO STA. 291+29 (END OF WORK)
 MAINTAIN 2 LANES USING DRUMS (LENGTH = 14,761 L.F.)
 1. CONSTRUCT NEW LEFT SHOULDER, NEW UNDERDRAIN, DRAINAGE, REHABILITATION OF BOTTOM OF OVERHEAD STRUCTURE.

PHASE IIA - STA. 294+11 TO STA. 308+41 E.B.
 PROVIDE TAPER USING DRUMS
 STA. 308+41 TO STA. 131+00
 MAINTAIN TWO LANES USING DRUMS (LENGTH = 18,652 L.F.)
 STA. 131+00 TO STA. 139+40
 PROVIDE TRAFFIC SHIFT USING DRUMS
 STA. 139+40 TO STA. 280+89 (END OF PROJECT)
 MAINTAIN TWO LANES USING DRUMS (LENGTH = 31,783 L.F.)
 STA. 6+12.41 TO STA. 18+72.52 RAMP "N"
 STA. 9+36.70 TO STA. 23+15.16 RAMP "P"
 MAINTAIN ONE LANE
 1. REMOVE WEARING COURSE AND REPAIR RIGHT LANE(S), DRAINAGE, REHABILITATION OF BOTTOM OF OVERHEAD STRUCTURE ITEM 301 AND ITEM 446 INTERMEDIATE COURSES.
 2. REMOVE WEARING COURSE AND REPAIR LEFT/RIGHT LANES, ITEM 301 AND ITEM 446 INTERMEDIATE COURSES (RAMPS "N" & "P").
 STA. 308+41 TO STA. 139+40 E.B.
 MAINTAIN TWO LANES USING DRUMS (LENGTH = 19,492 L.F.)
 1. COMPLETE ITEM 446 SURFACE COURSE.
 STA. 139+40 TO STA. 280+89 (END OF PROJECT)
 MAINTAIN TWO LANES USING DRUMS (LENGTH = 13,721 L.F.)
 RESTRICT TO 1 LANE (SEE SHT. No. FOR SHORT TERM LANE CLOSURES SCHEDULE FOR RESTRICTED HOURS).
 1. PERFORM FLEXIBLE REPAIRS LEFT LANE DURING RESTRICTED HOURS. AFTER LEFT LANE HAS BEEN REPAIRED FOR THE ENTIRE PROJECT (E.B.) THEN :
 2. REMOVE WEARING COURSE PLACE INTERMEDIATE ASPHALT COURSE INSTALL TEMPORARY EDGE LINE INSTALL UNEVEN LANES SIGNS OW-171-48 AND OWP-171-24 @ 2000' C/C RE-OPEN TO TRAFFIC.
 NOTE: WORK ZONE LENGTHS SHALL BE LIMITED TO THAT LENGTH WHICH ALLOWS FOR ALL OF THE LISTED WORK ITEMS TO BE COMPLETED WITHIN THE RESTRICTED HOURS.

PHASE IIB - STA. 322+61 TO STA. 87+00 W.B.
 MAINTAIN TWO LANES USING CONCRETE BARRIER (MOVE FROM EB SIDE) (LENGTH = 12,839 L.F.)
 1. CONSTRUCT NEW LANE AND LEFT SHOULDER, NEW UNDERDRAIN, DRAINAGE, REHABILITATION OF BOTTOM OF OVERHEAD STRUCTURE.
 2. ITEM 301 INTERMEDIATE COURSE
 STA. 87+00 TO STA. 280+89 (END OF PROJECT) W.B.
 MAINTAIN 2 LANES USING BARRELS (LENGTH = 18,961 L.F.)
 1. CONSTRUCT NEW LEFT SHOULDER, NEW UNDERDRAIN, DRAINAGE, REHABILITATION OF BOTTOM OF OVERHEAD STRUCTURE.

PHASE III - STA. 308+41 TO STA. 79+20 W.B.
 STA. 299+31 TO STA. 308+41 PROVIDE TAPER USING DRUMS
 STA. 79+20 TO STA. 87+00 PROVIDE TRAFFIC SHIFT USING DRUMS
 MAINTAIN TWO LANES USING DRUMS (LENGTH = 13,479 L.F.)
 STA. 87+00 TO STA. 280+89 (END OF PROJECT)
 MAINTAIN TWO LANES USING DRUMS (LENGTH = 19,304 L.F.)
 STA. 5+45.58 TO STA. 18+97.23 RAMP "L"
 STA. 8+37.55 TO STA. 16+18.23 RAMP "M"
 1. REMOVE WEARING COURSE AND REPAIR RIGHT LANE(S), DRAINAGE, REHABILITATION OF BOTTOM OF OVERHEAD STRUCTURE, ITEM 301 AND ITEM 446 INTERMEDIATE COURSES (I-90).
 1. REMOVE WEARING COURSE AND REPAIR LANES, ITEM 301 AND ITEM 446 INTERMEDIATE AND SURFACE COURSES (RAMPS "L" & "M").
 STA. 308+41 TO STA. 87+00 W.B.
 MAINTAIN TWO LANES (LENGTH = 14,259 L.F.)
 1. COMPLETE ITEM 446 SURFACE COURSE ON LEFT LANE(S) (NIGHT TIME ONLY)
 STA. 87+00 TO STA. 280+89 (END OF PROJECT)
 MAINTAIN 2 LANES (LENGTH = 18,954 L.F.)
 RESTRICT TO 1 LANE (SEE SHT No. 158 FOR SHORT TERM LANE CLOSURES SCHEDULE FOR RESTRICTED HOURS).
 1. PERFORM FLEXIBLE REPAIRS LEFT LANE DURING RESTRICTED HOURS. AFTER LEFT LANE HAS BEEN REPAIRED FOR THE ENTIRE PROJECT (E.B.) THEN :
 2. REMOVE WEARING COURSE PLACE INTERMEDIATE ASPHALT COURSE INSTALL TEMPORARY EDGE LINE INSTALL UNEVEN LANES SIGNS OW-171-48 AND OWP-171-24 @ 2000' C/C RE-OPEN TO TRAFFIC AS PER PHASE 2
 NOTE: WORK ZONE LENGTHS SHALL BE LIMITED TO THAT LENGTH WHICH ALLOWS FOR ALL OF THE LISTED WORK ITEMS TO BE COMPLETED WITHIN THE RESTRICTED HOURS.
 PHASES 1,2,3 & 4 SHALL BE PERFORMED BY USING PORTABLE CONCRETE BARRIERS TO ESTABLISH THE WORK ZONE. DRUMS SHALL BE USED FOR ALL PHASES AS DESCRIBED IN THESE NOTES, AND FOR OTHER OPERATIONS SUBJECT TO THE PROVISIONS OF THE PUBLIC SAFETY NOTE. THE WORK ZONES REQUIRED FOR PHASES 1 THROUGH 5 LISTED ABOVE CANNOT BE COMBINED, (EXCEPT PHASE 1A & 1B, 4A & 4B MAY BE CONCURRENT) OR ALTERED UNLESS APPROVAL IS PROVIDED BY THE DISTRICT *12 PLANNING ENGINEER AND THE PROJECT ENGINEER. EACH PHASE OF WORK AND WORK ZONE ESTABLISHED MUST BE COMPLETED AND OPEN TO TRAFFIC PRIOR TO ANY OTHER LANE CLOSURES OR WORK ZONES. THIS PROVISION DOES NOT PRECLUDE ANY PERMISSIBLE NON-RUSH HOUR DAYTIME CLOSURES AS INDICATED ON THE "SCHEDULE OF THRU LANES TO BE MAINTAINED" TABLE ON SHEET 158.

THE FOLLOWING ESTIMATED QUANTITIES ARE INCLUDED IN THE GENERAL SUMMARY TO BE USED AS DESCRIBED ABOVE. (SEE SHEET 157 FOR TABULATION)

ITEM 614 - MAINTAINING TRAFFIC	LUMP SUM
ITEM 622 - PORTABLE CONCRETE BARRIER, 32"	31,161 L.F.
ITEM 614 - OBJECT MARKER	1248 EACH

ITEM 614 - TEMPORARY PAVEMENT MARKINGS (TRAFFIC SHIFTS)

LANE SHIFTS OR LANE CLOSURES SHALL BE IMPLEMENTED USING 55:1 AND 65:1 MAXIMUM TAPER RATES ON MAINLINE PAVEMENT AND 25:1 MAXIMUM TAPER RATES ON RAMPS. (SEE TRAFFIC MAINTENANCE DETAIL SHEETS)

TYPICAL LOCATIONS INCLUDE:

- A) LANE CLOSURES
- B) LANE SHIFTS
- C) ENTRANCE/EXIT RAMP EXTENSIONS ACROSS CLOSED OUTSIDE LANES.

ALL CONFLICTING PAVEMENT MARKINGS (INCLUDING THE LANE LINE ADJACENT TO THE LANE CLOSURE TAPER) SHALL BE REMOVED PRIOR TO PLACING THESE PAVEMENT MARKINGS.

ALL TEMPORARY PAVEMENT MARKINGS WHICH ARE INSTALLED BEYOND THE PROPOSED RESURFACING LIMITS SHALL BE 740.05, TYPE B.

ITEM 614 - TEMPORARY LANE LINE, CLASS I, 642 PAINT	23.18	MI.
ITEM 614 - TEMPORARY LANE LINE, CLASS I, 740.05, TYPE B	1.55	MI.
ITEM 614 - TEMPORARY EDGE LINE, CLASS I, 642 PAINT	49.69	MI.
ITEM 614 - TEMPORARY EDGE LINE, CLASS I, 740.05, TYPE B	2.68	MI.
ITEM 614 - TEMPORARY CHANNELIZING LINE, CLASS I, 740.05, TYPE B	1.23	MI.

ITEM 614 - TEMPORARY PAVEMENT MARKINGS (RESURFACING OR LANE SHIFT REMOVAL)

TEMPORARY MARKINGS SHALL BE PLACED AT THE LOCATIONS OF THE PERMANENT MARKINGS AS SHOWN IN THE TRAFFIC CONTROL PLANS.

AFTER THE OVERLAYS ARE PLACED OR FOLLOWING LANE SHIFT REMOVALS THE FOLLOWING TEMPORARY MARKINGS SHALL BE USED:

ITEM 614 - TEMPORARY LANE LINE, CLASS II	38.94	MI.
ITEM 614 - TEMPORARY EDGE LINE, CLASS I	51.32	MI.
ITEM 614 - TEMPORARY STOP LINE, CLASS I	79	L.F.

ITEM 614 - WORK ZONE SPEED LIMIT SIGN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN, COVER DURING SUSPENSION OF WORK, AND SUBSEQUENTLY REMOVE WORK ZONE SPEED LIMIT SIGNS AND SUPPORTS (R-10-48) (45/55 MPH) WITHIN THE WORK LIMITS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS.

THE CONTRACTOR SHALL COVER OR REMOVE ANY EXISTING SPEED LIMIT OR MINIMUM SPEED SIGNS WITHIN THE REDUCED SPEED ZONE. THESE SIGNS SHALL BE RESTORED DURING SUSPENSION OR TERMINATION OF THE REDUCED SPEED LIMIT. THE EXPENSE OF COVERING OR REMOVAL AND RESTORATION OF EXISTING SPEED LIMIT OR MINIMUM SPEED SIGNS SHALL BE INCLUDED IN THE PAY ITEM FOR THE WORK ZONE SPEED LIMIT SIGNS.

THE WORK ZONE SPEED LIMIT SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN 4 HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN 4 HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL ERECT A WORK ZONE SPEED LIMIT SIGN IN ADVANCE OF ANY LANE RESTRICTION EXPECTED TO LAST AT LEAST 30 DAYS, OR AS DIRECTED BY THE ENGINEER. THE SIGN SHALL BE MOUNTED ON BOTH SIDES OF DIVIDED HIGHWAYS, 500 FEET IN ADVANCE OF THE LANE REDUCTION TAPER. THE SIGN SHALL BE MOUNTED ON THE RIGHT SIDE, 250 FEET IN ADVANCE OF THE LANE REDUCTION TAPER ON UNDIVIDED HIGHWAYS. THE SIGN SHALL BE REPEATED, ON THE SIDE NEAREST TRAFFIC, EVERY 1 MILE FOR 55 MPH ZONES AND EVERY 1/2 MILE FOR 45 MPH ZONES. THESE SIGNS SHALL ALSO BE ERECTED IMMEDIATELY AFTER OPEN ENTRANCE RAMP WITHIN THE ZONE. A SIGN TO INDICATE THE RESUMPTION OF THE STATUTORY SPEED LIMIT SHALL BE ERECTED AT THE END OF ANY REDUCED SPEED ZONE. THIS SIGN SHALL BE AN R-8A.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED BUT GOOD CONDITION PROVIDED THE SIGNS MEET THE CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE REFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF 730.19 AND U.S. DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATION FOR TYPE III-C SHEETING, FP-85. WORK ZONE SPEED LIMIT SIGNS SHALL BE MOUNTED ON TWO (2) ITEM 630 GROUND MOUNTED SUPPORTS, NO. 4 POSTS.

WORK ZONE SPEED LIMIT SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGNS AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION WITHIN THE PROJECT DUE TO CHANGES IN THE SPEED ZONE DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE IN PLACE, WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVING THE SIGNS AND SUPPORTS.

ITEM 614 - WORK ZONE SPEED LIMIT SIGN	30 EACH
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ITEM SPECIAL - LAW ENFORCEMENT OFFICER (WITH PATROL CAR)

IN ADDITION TO THE REQUIREMENTS OF 614 AND THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER (AND OFFICIAL PATROL CAR WITH WORKING TOP MOUNTED EMERGENCY LIGHTS) SHALL BE PROVIDED FOR CONTROLLING TRAFFIC FOR THE FOLLOWING TASKS:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.

LAW ENFORCEMENT OFFICERS (LEO'S) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEO'S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE.

THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES WITH:

OHIO STATE HIGHWAY PATROL PHONE 354-3233 CITY OF WILLOUGHBY POLICE PHONE 951-1234
 CITY OF MENTOR POLICE PHONE 255-1234 LAKE COUNTY SHERIFF PHONE 354-4317

LAW ENFORCEMENT OFFICERS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM SPECIAL-LAW ENFORCEMENT OFFICER (WITH PATROL CAR). THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM SPECIAL - LAW ENFORCEMENT OFFICER WITH PATROL CAR	500 HOURS
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THE HOURS PAID SHALL INCLUDE MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

IF THE CONTRACTOR WISHES TO UTILIZE LEO'S FOR FLAGGING AND TRAFFIC CONTROL OTHER THAN FOR THAT REQUIRED IN THESE PLANS, HE MAY DO SO AT HIS OWN EXPENSE. PAYMENT FOR THE EXCESS ABOVE THE CONTRACT REQUIREMENTS WILL BE INCLUDED UNDER ITEM 614 MAINTAINING TRAFFIC.

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