

**ITEM SPECIAL - TRAFFIC CONTROL PLANNING AND IMPLEMENTATION**

THIS ITEM SHALL INCLUDE THE PREPARATION AND IMPLEMENTATION OF TRAFFIC CONTROL PLANS BASED ON THE CONTRACTOR'S SCHEDULE OF WORK ACTIVITIES. THIS WILL REQUIRE A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF OHIO, TO BE IN CHARGE OF DESIGNING, IMPLEMENTING AND MONITORING TRAFFIC MAINTENANCE PLANS COORDINATED WITH THE SCHEDULE FOR THE WORK. THIS ENGINEER IS HEREIN REFERRED TO AS THE TRAFFIC CONTROL ENGINEER.

THE TRAFFIC CONTROL ENGINEER AND HIS STAFF SHALL HAVE EXPERIENCE IN THIS FIELD SATISFACTORY TO THE OHIO DEPARTMENT OF TRANSPORTATION. THIS DOCUMENTATION SHALL BE FURNISHED AT THE PRELIMINARY CONSTRUCTION MEETING FOR REVIEW AND APPROVAL. IN ADDITION, THE TRAFFIC CONTROL ENGINEER SHALL HAVE DESIGN EXPERIENCE IN THIS FIELD ACCEPTABLE TO ODOT.

THE TRAFFIC CONTROL ENGINEER AND HIS TEAM SHALL HAVE EXPERTISE AND RESOURCES TO:

1. DEVELOP AND DESIGN TRAFFIC CONTROL PLANS AND DETOUR ROUTES MEETING CURRENT STANDARDS. THESE PLANS SHALL BE SUBMITTED TO AND APPROVED BY ODOT.
2. MONITOR ACCIDENT DATA AND RECOMMEND CHANGES, IF NEEDED AFTER APPROVAL AND IMPLEMENTATION, BASED ON THIS ANALYSIS.
3. PROVIDE, INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE THE REQUIRED TRAFFIC CONTROL EQUIPMENT AND PAVEMENT MARKING FEATURES.
4. PROVIDE QUICK RESPONSE TO ON SITE PROBLEMS OR ACCIDENT DAMAGE.

THE FOLLOWING REQUIREMENTS WILL BE INCLUDED IN THIS ITEM:

**1. TRAFFIC CONTROL PLANS:**

TRAFFIC CONTROL PLANS PROPOSED SHALL BE SUBMITTED TO ODOT TWO WEEKS PRIOR TO WORK IN THE AREA COVERED BY THE PLAN. THIS SUBMITTAL SHALL CONSIST OF FIVE COPIES OF THE PLANS FOR REVIEW AND DISTRIBUTION. NO WORK SHALL BEGIN AT ANY LOCATION UNTIL THE TRAFFIC CONTROL PLAN HAS BEEN APPROVED BY ODOT.

**2. PLAN CHANGES:**

THE TRAFFIC CONTROL ENGINEER SHALL OBTAIN ACCIDENT DATA FROM THE LAW ENFORCEMENT AGENCY AND ANALYZE CAUSES AND FURNISH RECOMMENDATION FOR CHANGE TO REDUCE THE ACCIDENT FREQUENCY. NO CHANGES TO THE APPROVED TRAFFIC CONTROL PLAN SHALL BE MADE UNTIL APPROVAL IS OBTAINED FROM ODOT IN WRITING.

**3. PLAN IMPLEMENTATION:**

THE TRAFFIC CONTROL ENGINEER SHALL BE RESPONSIBLE FOR PROVIDING, INSTALLING, MAINTAINING AND THE SUBSEQUENT REMOVAL OF ALL TRAFFIC CONTROL EQUIPMENT, PAVEMENT MARKING, SIGNS, OVERLAYS OR OTHER FEATURES NECESSARY TO IMPLEMENT THE APPROVED PLAN. ALL REQUIREMENTS OF ITEM 614 SHALL APPLY TO THIS CONTRACT. EXCEPT AS LISTED HEREAFTER, THIS WORK SHALL BE INCLUDED FOR PAYMENT WITH THIS ITEM SPECIAL.

**4. RESPONSE PLAN:**

PROVIDE A MEANS OF QUICK RESPONSE TO ON SITE PROBLEMS OR ACCIDENTS TO MAINTAIN THE SYSTEM 24 HOURS A DAY AND 7 DAYS A WEEK TO THE SATISFACTION OF THE ENGINEER. THE TRAFFIC CONTROL ENGINEER SHALL HAVE NECESSARY AUTHORITY TO PERFORM ANY WORK NECESSARY TO RECTIFY ANY PROBLEMS. THE TRAFFIC CONTROL ENGINEER AND THE PROJECT ENGINEER SHALL HAVE A CONSTANT MEANS OF COMMUNICATION FOR THE PURPOSE OF MAINTAINING TRAFFIC CONTROL. THE MEANS OF COMMUNICATION SHALL BE A TWO-WAY RADIO, OR EQUIVALENT, FURNISHED AND SERVICED BY THE CONTRACTOR.

A REACTION PLAN SHALL BE DEVELOPED SO AS TO MINIMIZE RESPONSE TIME TO CORRECT ON SITE PROBLEMS IMMEDIATELY AFTER NOTIFICATION OF ODOT OF THE NEED. CORRECTION SHALL BE MADE WITHIN FOUR HOURS OF NOTIFICATION. THIS PLAN SHALL BE FURNISHED TO THE ENGINEER PRIOR TO THE START OF WORK AND SHALL BE UPDATED AS REQUIRED BY THE ENGINEER.

**6. PAYMENT:**

PAYMENT SHALL BE MADE AS FOLLOWS: AT THE LUMP SUM BID FOR ITEM SPECIAL, TRAFFIC CONTROL PLANNING AND IMPLEMENTATION.  
 -30% UPON APPROVAL AND IMPLEMENTATION OF THE INITIAL PLAN AND INSTALLATION OF REQUIRED TRAFFIC CONTROL DEVICES.  
 -70% PRORATED OVER THE REMAINING WORKING TIME IN THE CONTRACT. THE ENGINEER SHALL CONSIDER THE MAGNITUDE OF TRAFFIC CONTROL BEING IMPLEMENTED TO THE ESTIMATE PERIOD AND PRORATE THE COST ACCORDINGLY.

**PARAMETERS FOR MAINTAINING TRAFFIC CONTROL**

THE TRAFFIC CONTROL ENGINEER SHALL DESIGN PLANS TO MEET THE FOLLOWING REQUIREMENTS:

1. IT IS THE INTENTION TO PERFORM THE REQUIRED WORK WITH THE LEAST INCONVENIENCE TO, AND THE MAXIMUM SAFETY TO THE CONTRACTOR AND THE TRAVELING PUBLIC. ANY VARIANCES FROM THESE MAINTENANCE OF TRAFFIC NOTES MUST BE APPROVED IN ADVANCE BY ODOT EXCEPT AS MODIFIED BELOW OR AS SHOWN IN THE MAINTENANCE OF TRAFFIC PLANS. THE REQUIREMENTS FOR MAINTAINING TRAFFIC AS INDICATED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION WITH LATEST REVISIONS, AND PERTINENT ITEMS OF THE SPECIFICATIONS AND PROPOSAL SHALL APPLY.
2. THE CONTRACTOR SHALL ARRANGE HIS OPERATIONS SO AS TO PREVENT ANY INTERFERENCE TO THE CONTINUOUS FLOW OF TRAFFIC. ALL VEHICLES, EQUIPMENT, MEN AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT. VEHICLE AND EQUIPMENT SHALL NOT PARK OR STOP EXCEPT WITHIN DESIGNATED WORK AREAS, AND SHALL ENTER AND LEAVE WORK AREAS IN A MANNER WHICH WILL NOT BE HAZARDOUS TO, OR INTERFERE WITH THE NORMAL TRAFFIC FLOW. PERSONAL VEHICLES WILL NOT BE PERMITTED TO PARK WITHIN THE RIGHT OF WAY EXCEPT IN SPECIFIC AREAS AS DESIGNATED BY THE ENGINEER.
3. A "ROAD CONSTRUCTION AHEAD" SIGN (OW-128) SHALL BE PLACED ON ALL ROADS APPROACHING THE WORK AREA.
4. 615 NORTHBOUND TRAFFIC MUST BE MAINTAINED AT ALL TIMES. THIS IS NECESSARY TO ALLOW EMERGENCY VEHICLE ACCESS FROM THE CITY OF KIRTLAND.
5. 615 SOUTHBOUND TRAFFIC MAY BE DETOURED BY USE OF THE DETOUR SHOWN ON SHEET 19.
6. ALL PAVEMENTS MUST BE CONSTRUCTED TO THE CENTERLINE OR LONGITUDINAL JOINT. THE USE OF TEMPORARY ROADS/PAVEMENT MAY BE REQUIRED.
7. TWO-WAY ACCESS TO KINGWOOD MUST BE MAINTAINED AT ALL TIMES. THIS MAY REQUIRE THE USE OF A ONE LANE ROAD.
8. THE MINIMUM LANE WIDTH SHALL BE 10'.
9. A SUGGESTED CONSTRUCTION SEQUENCE IS SHOWN ON SHEETS 15-18.
10. CHANGES IN TRAFFIC PATTERNS WILL NOT BE PERMITTED BETWEEN THE HOURS OF 6:00 A.M. TO 9:00 A.M., AND 3:00 P.M. TO 6:00 P.M. ON ANY WEEKDAY.
11. ALL OPERATIONS AFFECTING THE FLOW OF TRAFFIC SHALL BE RESTRICTED TO ONE SIDE OF THE ROAD UNLESS OTHERWISE APPROVED.
12. ALL NECESSARY TEMPORARY AN/OR PAVEMENT SIGNING AND PAVEMENT MARKING SHALL BE IN PLACE PRIOR TO REOPENING PAVEMENT TO TRAFFIC.
13. THE ADVISORY SPEED SHALL BE 25 MPH.

**SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED LIQUIDATED DAMAGES IN THE AMOUNT OF \$68.00 PER EACH MINUTE THESE REQUIREMENTS ARE NOT MET.**

UNLESS SEPARATELY ITEMIZED IN THE PLANS, THE ABOVE WORK SHALL BE PAID FOR AS ITEM SPECIAL, MAINTAINING TRAFFIC, MISC.: TRAFFIC CONTROL PLANNING AND IMPLEMENTATION.

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED FOR ESTIMATING PURPOSES ONLY:

- ITEM 622 - PORTABLE CONCRETE BARRIER, 32"----- 200 LF
- ITEM 614 - WORK ZONE MARKING SIGN -----40 EA
- ITEM 614 - BIT. CONC. FOR MAINT. TRAFFIC-----25 CU YD
- ITEM 615 - TEMPORARY PAVEMENT, CLASS B-----50 SQ YD
- ITEM 615 - TEMPORARY ROADS-----LUMP SUM
- ITEM 614 - TEMP. EDGE LINE, CLASS I, 642 PAINT-----1.5 MILE
- ITEM 614 - TEMP. EDGE LINE, CLASS I, 740.06 TYPE I-----0.5 MILE

**ITEM SPECIAL - REPLACEMENT SIGN**

FLAT SHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL TO THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED BUT GOOD CONDITION SUBJECT TO APPROVAL BY THE ENGINEER. PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER SQUARE METER FOR ITEM SPECIAL, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC. AN ESTIMATED QUANTITY OF 25 SQUARE FEET HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

**REPLACEMENT DRUM**

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW. PAYMENT FOR THE NEW DRUMS SHALL BE INCLUDED UNDER THE LUMP SUM BID FOR ITEM 614-MAINTAINING TRAFFIC, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.