

TRAFFIC CONTROL GENERAL NOTES

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DATE: 2-78
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GUARANTEE

THE CONTRACTOR SHALL GUARANTEE THAT THE TRAFFIC CONTROL SYSTEM INSTALLED AS PART OF THIS CONTRACT SHALL OPERATE SATISFACTORILY FOR THE PERIOD OF 180 DAYS FOLLOWING COMPLETION OF THE 10-DAY PERFORMANCE TEST. IN THE EVENT OF UNSATISFACTORY OPERATION, THE CONTRACTOR SHALL CORRECT FAULTY INSTALLATIONS, MAKE REPAIRS AND REPLACE DEFECTIVE PARTS WITH NEW PARTS OF EQUAL OR BETTER QUALITY. EQUIPMENT, MATERIAL AND LABOR COSTS INCURRED IN CORRECTING AN UNSATISFACTORY OPERATION SHALL BE BORNE BY THE CONTRACTOR.

THE GUARANTEE SHALL COVER ALL THE ITEMS MAKING UP THE TRAFFIC CONTROL SYSTEM: THE CONTROLLER, CABINET, DETECTOR AMPLIFIERS AND CONFLICT MONITOR.

CUSTOMARY MANUFACTURERS' GUARANTEES FOR THE FOREGOING ITEMS SHALL BE TURNED OVER TO THE CITY OF MENTOR ENGINEER FOLLOWING ACCEPTANCE OF THE EQUIPMENT. THE FULL MANUFACTURERS' GUARANTEES (MINIMUM 12 MONTHS) SHALL GO INTO EFFECT ON THE DATE OF ACCEPTANCE BY THE CITY OF MENTOR.

THE COST OF GUARANTEEING THE TRAFFIC CONTROL SYSTEM WILL BE INCIDENTAL TO AND INCLUDED IN THE CONTRACT UNIT PRICE OF THE VARIOUS ITEMS MAKING UP THE SYSTEM.

CERTIFICATION AND APPROVAL OF TRAFFIC CONTROL ITEMS

SUBMISSIONS BY THE CONTRACTOR FOR APPROVAL SHALL CONFORM WITH 632.02 AND 633.03 AS APPROPRIATE EXCEPT THAT THREE ADDITIONAL SETS OF INFORMATION SHALL BE REQUIRED AND SUBMITTED TO THE CITY OF MENTOR FOR THEIR INFORMATION AND COMMENTS.

ITEM 632 PEDESTRIAN PUSHBUTTONS, AS PER PLAN

THE PUSHBUTTONS SHALL BE CAST ALUMINUM LEGEND TYPE, WITH ADA PUSHBUTTON, PEDESTRIAN SYMBOL, DIRECTIONAL ARROW AND A RED INDICATOR LIGHT. THE PUSHBUTTONS SHALL BE LOCATED BELOW THE PEDESTRIAN SIGNAL HEADS FOR EACH DIRECTION. ALL PUSHBUTTONS TO BE WIRED WITH A 3-CONDUCTOR CABLE AND TO BE FIELD DRILLED AFTER LOCATION BY THE ENGINEER.

PUSHBUTTON MANUFACTURERS:

PELCO PRODUCTS, INC. ALINCO ELECTRIC SALES
320 18TH STREET, S.W. HC81 BOX 1131, ROUTE 11
EDMOND, OKLAHOMA 73013 WEST NEWFIELD, MAINE 04095
(405)340-3434 (207)793-2177

POWER SUPPLY

POWER SUPPLY LINE (120V) SHALL BE BROUGHT INTO CABINET IN A 2" CONDUIT AND SHALL BE THE ONLY WIRE IN THE CONDUIT. NO DISCONNECT SHALL BE PROVIDED.

ITEM 632 INTERCONNECT CABLE

NO SPLICES WILL BE ALLOWED EXCEPT AT THE TRAFFIC CONTROLLERS. INTERCONNECT CABLE SHALL BE PROVIDED A SEPARATE AND INDIVIDUAL 2" CONDUIT INTO THE CONTROLLER CABINET.

ITEM 632 PHONE DROP

THIS CONTINGENCY ITEM OF WORK SHALL CONSIST OF SUPPLYING A TELEPHONE DROP TO THE TRAFFIC SIGNAL CONTROLLER AT THE INTERSECTION SHOWN IN THE PLANS, INCLUDING ANY REQUIRED CONDUIT, CONDUIT RISER, TRENCH, SHIELDED 2/C CABLE, LIGHTNING ARRESTOR AND TERMINAL CONNECTION IN THE CABINET NECESSARY TO CONNECT TELEPHONE SERVICE TO A MODEM. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ARRANGEMENTS WITH THE LOCAL TELEPHONE COMPANY TO HAVE A TELEPHONE SERVICE DROP INSTALLED AT THE LOCATION SHOWN IN THE PLANS.

PAYMENT FOR CONTINGENCY ITEM 632 - PHONE DROP WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER EACH, COMPLETE AND IN PLACE. THIS CONTINGENCY ITEM SHALL NOT BE USED UNLESS DIRECTED BY THE ENGINEER.

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

- A) EXISTING SIGNAL INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST, MODIFY, AND/OR REMOVE OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME HIS OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK IS ACCEPTED.
- B) NEW, REUSED AND/OR TEMPORARY SIGNAL INSTALLATIONS OR DEVICES, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE CITY AND THE ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK TO SERVICE WITHIN FOUR (4) HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE.

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. THE SIGNAL SHALL BE BACK IN SERVICE WITHIN EIGHT (8) HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE OR MALFUNCTION.

IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED 8-HOUR PERIOD, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON THEREAFTER AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION, THEN THE ALLOTTED TIME SHALL BE FOR THE WORST SINGLE OUTAGE.

WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE ACCIDENT, THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE.

WHERE THE CONTRACTOR HAS FAILED TO OR CANNOT RESPOND TO AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO THE STATE OR THE CITY OF MENTOR FOR POLICE SERVICE AND MAINTENANCE SERVICES BY CITY FORCES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15.

THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICE ENTIRELY WITH HIS FORCES OR HE MAY CHOOSE TO ENTER INTO A COOPERATIVE UNDERSTANDING WITH THE LOCAL MAINTAINING AGENCY TO PROVIDE THE MAINTENANCE. THE CONTRACTOR SHALL INFORM THE ENGINEER, IN WRITING, OF THE MAINTENANCE METHOD SELECTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM.

ANY VEHICULAR TRAFFIC SIGNAL HEAD, EITHER NEW OR EXISTING, WHICH WILL BE OUT OF OPERATION SHALL BE COVERED IN THE MANNER DESCRIBED IN SECTION 632.24.

THIS ITEM SHALL BE CONSIDERED A SUBSIDIARY WORK AND THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS ITEMS MAKING UP THE SIGNAL SYSTEM.

ALL SIGNALS SHALL BE MAINTAINED WITH THE SIDESTREET BEING ACTUATED. ALL MAINLINE LEFT TURN LANES SHALL BE ACTUATED. ACTUATION SHALL BE PROVIDED WITH TEMPORARY LOOPS. TEMPORARY LOOPS MAY BE PRE-FORMED SUITABLE FOR ABOVEGROUND INSTALLATION.

ITEM 642 PAVEMENT MARKINGS, AS PER PLAN

PAVEMENT MARKINGS ON NEW CONCRETE SHALL BE OF CHLORINATED RUBBER PAINT.

ITEM 645 PREFORMED PAVEMENT MARKINGS

ALL ARROWS, WORDS "ONLY", CHANNELIZATION LINES, CROSSWALK LINES AND STOP BARS INSTALLED ON NEW ASPHALT AT SIGNALIZED INTERSECTIONS SHALL BE PREFORMED MARKINGS. THE PREFORMED MARKINGS SHALL BE INSTALLED DURING THE PLACEMENT OF THE NEW ASPHALT AT THE MANUFACTURERS' RECOMMENDATION TEMPERATURE FOR INSTALLATION AND PRESSED INTO THE WARM SURFACE BY MEANS OF A MECHANICAL ROLLER.

ITEM 643 POLYESTER PAVEMENT MARKINGS

ALL OTHER PAVEMENT MARKINGS TO BE INSTALLED ON NEW ASPHALT SHALL BE POLYESTER PAVEMENT MARKINGS.