

**UTILITIES**

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

CABLE MASSILON CABLE TELEVISION P.O. BOX 917 WOOSTER, OH 44691 330.345.5110	COMMUNICATION CENTURYLINK 175 ASHLAND ROAD, P.O. BOX 3555 MANSFIELD, OH 44907 419.755.7956
COMMUNICATION EVERSTREAM SOLUTIONS 800 W ST CLAIR, 2ND FLOOR CLEVELAND, OH 44113 216.581.7972	ELECTRIC AEP OHIO 2552 QUAKER ROAD BUCYRUS, OH 44820 419.563.1509
GAS COLUMBIA GAS OF OHIO 1021 N. MAIN ST. MANSFIELD, OH 44903 419.528.1137	TRAFFIC ODOT DISTRICT THREE 906 CLARK AVENUE ASHLAND, OH 44805 419.207.7045
VILLAGE VILLAGE OF LEXINGTON 44 WEST MAIN STREET LEXINGTON, OH 44904 419.884.0765	

THE AFOREMENTIONED UTILITY COMPANIES AND AGENCIES HAVE VARIOUS FACILITIES IN THE AREA THAT WILL REMAIN IN PLACE DURING CONSTRUCTION.

EXTREME CAUTION SHOULD BE EXERCISED IN AREAS WITH UTILITIES. SECTIONS 105.07 AND 107.16 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS REQUIRE, AMONG OTHER THINGS, THAT THE CONTRACTOR COOPERATE WITH ALL UTILITIES LOCATED WITHIN THE LIMITS OF THIS CONSTRUCTION PROJECT AND TAKE RESPONSIBILITY FOR THE PROTECTION OF THE UTILITY PROPERTY AND SERVICES.

**EXISTING PLANS**

EXISTING PLANS ENTITLED WAY-30-11.86, 2003 MAY BE INSPECTED IN THE ODOT DISTRICT THREE OFFICE IN ASHLAND.

**UTILITIES NOTIFICATION**

THE APPROXIMATE LOCATION OF UNDERGROUND UTILITIES IS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATIONS OF UNDERGROUND UTILITIES AND CONTACTING THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AND THE OIL AND GAS PROTECTIVE SERVICE A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO DIGGING. THE PHONE NUMBERS FOR BOTH AGENCIES CAN BE FOUND ON THE TITLE SHEET OF THIS PLAN.

**PERSONNEL**

IN ADDITION TO THE REQUIREMENTS OF CMS 632.02, THE CONTRACTOR SHALL AT ALL TIMES PROVIDE SUFFICIENT WORK FORCE OF PERSONNEL, QUALIFIED IN THE OPINION OF THE ENGINEER, TO PERFORM THE WORK REQUIRED UNDER THIS CONTRACT. THIS REQUIREMENT IS IN ADDITION TO SATISFYING THE REQUIREMENTS OF SECTION 108.05 OF THE CMS MANUAL.

THE FOREMAN'S UTILITY WORK TRUCK SHALL BE EQUIPPED WITH A CELLULAR PHONE. THE CELLULAR PHONE NUMBER SHALL BE PROVIDED TO THE PROJECT ENGINEER AND THE DISTRICT 3 TRAFFIC DEPARTMENT.

**ITEM 625 – SPECIAL, MAINTAIN EXISTING LIGHTING**

EXISTING ROADWAYS WHICH ARE TO REMAIN OPEN TO TRAFFIC DURING CONSTRUCTION OF THIS PROJECT AND WHICH ARE LIGHTED SHALL HAVE THE LIGHTING MAINTAINED AS DESCRIBED HEREIN.

BEFORE ANY WORK IS STARTED IN THE IMMEDIATE VICINITY OF THE EXISTING LIGHTING CIRCUITS, REPRESENTATIVES OF ODOT, THE MAINTAINING AGENCY AND THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE EXISTING ROADWAY LIGHTING CIRCUITS TO BE MAINTAINED. DURING THIS INSPECTION, A WRITTEN RECORD OF THE CONDITION OF EXISTING LIGHTING SHALL BE MADE BY ODOT'S REPRESENTATIVE. THIS WRITTEN REPORT SHALL NOTE INDIVIDUAL LUMINAIRES WHICH ARE NOT IN WORKING ORDER, INDIVIDUAL POLES WHICH ARE NOT STANDING, AND INDIVIDUAL CIRCUITS WHICH ARE NOT IN WORKING ORDER. THE COMPLETED REPORT SHALL BE SIGNED BY THE REPRESENTATIVES OF ODOT, THE MAINTAINING AGENCY AND THE CONTRACTOR.

IF, AS A RESULT OF THIS INSPECTION, IT IS DETERMINED THAT THE CONDITION OF THE EXISTING SYSTEM IS BELOW THAT REQUIRED FOR THE SAFETY OF THE TRAVELING PUBLIC, THEN THE MAINTAINING AGENCY SHALL MAKE THE REPAIRS NECESSARY TO RETURN THE

SYSTEM TO AN ACCEPTABLE CONDITION. FOLLOWING THESE REPAIRS, THE SYSTEM SHALL AGAIN BE INSPECTED AND A REPORT SHALL BE MADE AND SIGNED AS OUTLINED HEREIN.

WHEN THE EXISTING SYSTEM IS IN AN ACCEPTABLE CONDITION, IT SHALL BE TURNED OVER TO THE CONTRACTOR WHO SHALL THEN BE REQUIRED TO MAINTAIN THE EXISTING LIGHTING TO THE CONDITION OUTLINED IN THIS REPORT WITH THE EXCEPTION OF KNOCKDOWNS DUE TO TRAFFIC ACCIDENTS.

REPLACEMENT OF KNOCKED DOWNED UNITS SHALL BE DONE ONLY WHEN THE ENGINEER HAS DETERMINED THAT THE REPLACEMENT OF THE KNOCKED DOWN UNIT IS NECESSARY AND SHALL BE PAID SEPARATELY ON A UNIT BASIS.

BETTERMENTS SHALL BE COVERED IN ITEMS OF WORK PERTAINING TO THE CONSTRUCTION OF PERMANENT IMPROVEMENT.

WHEN THE SEQUENCE OF CONSTRUCTION ACTIVITIES REQUIRES, OR SHOULD THE CONTRACTOR DESIRE, THE REMOVAL OF THE EXISTING LIGHTING BEFORE THE NEW LIGHTING IS OPERATIONAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY LIGHTING OF THIS PORTION OF THE ROADWAY.

PRIOR TO INSTALLING SUCH LIGHTING, THE CONTRACTOR SHALL PREPARE AND SUBMIT FOUR SETS OF THE TEMPORARY LIGHTING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL.

THIS PLAN SHALL SHOW LOCATIONS OF POLES, LENGTHS OF BRACKET ARMS, STYLES OF LUMINAIRES, MOUNTING HEIGHTS, WIRING METHODS AND OTHER PERTINENT INFORMATION. THE TEMPORARY LIGHTING SHALL PROVIDE AN AVERAGE INITIAL INTENSITY OF 1.2 FOOTCANDLES (13 LUX) WITH AN AVERAGE TO MINIMUM UNIFORMITY NOT TO EXCEED 3:1. MOUNTING HEIGHT OF TEMPORARY LUMINAIRES SHALL NOT BE LESS THAN 30 FEET (9 METERS), AND THE MINIMUM OVERHEAD CONDUCTOR CLEARANCE SHALL BE 20 FEET (6 METERS).

TEMPORARY OVERHEAD CONSTRUCTION SHALL NOT BE LESS THAN GRADE 'A' FOR STRENGTH REQUIREMENTS AS DEFINED BY THE NATIONAL ELECTRIC SAFETY CODE. WOOD POLES WITH OVERHEAD WIRING MAY BE USED. HOWEVER, TEMPORARY LIGHTING SHALL MEET FEDERAL AND STATE SAFETY CRITERIA. IF BREAKAWAY POLES ARE USED TO MEET THESE CRITERIA, THEN UNDERGROUND WIRING SHALL BE USED. RECONDITIONED OR USED MATERIALS MAY BE FURNISHED FOR TEMPORARY LIGHTING.

ALL MATERIALS NECESSARY TO COMPLETE THE TEMPORARY LIGHTING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. WHEN NO LONGER NEEDED, THE TEMPORARY LIGHTING INSTALLATION SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

THE MAINTAINING AGENCY WILL PAY FOR ELECTRICAL ENERGY CONSUMED BY EXISTING POWER SERVICES AND BY PROPOSED PERMANENT POWER SERVICES AFTER ACCEPTANCE OF THE LIGHTING WORK. THE CONTRACTOR WILL PAY FOR ELECTRICAL ENERGY, INSTALLATION, REMOVAL AND MAINTENANCE OF ANY TEMPORARY POWER SERVICES.

THE LUMP SUM PRICE BID FOR ITEM SPECIAL "MAINTAIN EXISTING LIGHTING" SHALL INCLUDE PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIAL AND INCIDENTALS NECESSARY TO MAINTAIN THE EXISTING LIGHTING AS SPECIFIED HEREIN.

**ITEM 625 – REPAIR INTEGRAL LUMINAIRE LOWERING MECHANISM OF TOWER LIGHTING FIXTURE, AS PER PLAN**

THIS ITEM SHALL CONSIST OF REPLACING THE LOWERING CABLES FOR THE HIGH MAST LIGHTING TOWERS IDENTIFIED IN THE PLANS. THE CONTRACTOR SHALL CONTACT HOLOPHANE FOR THE RECOMMENDED PROCEDURE TO REPLACE THE LOWERING CABLES. TOWERS PAF-9, LWC-2, LWC-8, AND LWC-9 WILL REQUIRE DROPPING THE HIGH MAST POLE IN ORDER TO REPLACE THE LOWERING CABLES.

EACH TOWER HAS THREE CABLES THAT WILL BE REPLACED. THE CONTRACTOR CREW LEADER SHALL BE PRESENT DURING ALL CABLE REPLACEMENTS INCLUDING THE REPLACEMENTS WITH A HOLOPHANE REPRESENTATIVE PRESENT.

THE LOWERING CABLES SHALL BE TESTED ACCORDING TO 625.19E WITH AN ODOT REPRESENTATIVE PRESENT. THE CONTRACTOR SHALL CORRECT ANY DEFICIENCIES FOUND DURING TESTING.

PAYMENT FOR THIS ITEM WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH TOWER AND SHALL INCLUDE ALL LABOR AND EQUIPMENT REQUIRED TO PERFORM THIS ITEM OF WORK AS DESCRIBED ABOVE. HOISTING CABLES WILL BE BID SEPERATELY.

**ITEM 625 – LIGHTING, MISC.: HOLOPHANE FIELD REP**

THIS ITEM SHALL CONSIST OF THE PRESENCE OF A HOLOPHANE FIELD REPRESENTATIVE. THE HOLOPHANE FIELD REP SHALL BE PRESENT FOR THE FIRST TWO DAYS OF LOWERING CABLE REPLACEMENT. THE FIELD REP SHALL VERIFY THE PROPER PROCEDURE IS BEING FOLLOWED BY THE CONTRACTOR.

PAYMENT FOR THIS ITEM SHALL BE MADE AT THE CONTRACT UNIT PRICE PER EACH DAY.

TOTAL QUANTITY - 2 DAYS

**ITEM 625 – LIGHTING, MISC.: HPS LAMP REPLACEMENT & CLEANING OF FIXTURES**

THIS ITEM SHALL CONSIST OF REPLACEMENT OF ALL HPS LAMPS.

THE CLEANING OF ALL FIXTURES SHALL ALSO BE INCLUDED IN THIS ITEM. LAMP REPLACEMENT AND CLEANING SHALL BE DONE SIMULTANEOUSLY. THE METHOD OF CLEANING IS DESCRIBED BELOW:

1) GLASSWARE OR PLASTIC

A. ENCLOSED ASSEMBLIES WITH HINGED DOOR WITH GLASSWARE SHALL HAVE THE GLASSWARE REMOVED, WASHED, RINSED TWICE AND DRIED. THE INNER SURFACE OF ALUMINUM REFLECTORS SHALL BE WIPED WITH A CHAMOIS AND ANY GLASSWARE WITH FELT ON THE HOLDING RING SHALL BE SPONGED AND WIPED DRY WITH A DRY CLOTH KEEPING THE FELT DRY. ANY OTHER PROCESS THAT THE CONTRACTOR CHOOSES SHALL BE PRESENTED TO THE ENGINEER IN DETAIL. THE ENGINEER MUST APPROVE ANY PROCESS BEFORE THE CONTRACTOR BEGINS TO USE SAID PROCESS. THE CONTRACTOR SHALL NOT CHANGE HIS PROCESS FOR CLEANING WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER.

WHILE GLASSWARE (OR PLASTIC) IS REMOVED FOR CLEANING BUGS AND DEBRIS SHALL BE BRUSHED FROM THAT PART OF THE FIXTURE HOLDING THE GLASS (OR PLASTIC) IN ADDITION TO THE AREA SURROUNDING THE REFLECTOR.

WITH A HINGED DOOR FIXTURE, THE SECOND PORTION OF THE FIXTURE SHALL BE UNFASTENED AND BRUSHED TO CLEAN AWAY BUGS AND DEBRIS THAT HAVE COLLECTED ALONG THE BALLAST AND TRANSFORMER. CARE SHALL BE TAKEN NOT TO DISTURB THE WIRES WHILE REMOVING THIS DEBRIS.

2) REFLECTORS

A. THE INNER SURFACE OF REFLECTORS SHALL BE CLEANED AND/OR POLISHED WITH A REMOVABLE POLISH RATHER THAN BY THE USE OF WATER.

PAYMENT FOR THIS ITEM SHALL BE MADE AT THE CONTRACT UNIT PRICE PER EACH LAMP AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO PERFORM THIS ITEM OF WORK AS DESCRIBED ABOVE.

**ITEM 625 – LIGHTING, MISC.: HOISTING CABLE KIT**

THIS ITEM SHALL CONSIST OF HOISTING CABLE KITS FOR THE HIGH MAST LIGHTING TOWERS IDENTIFIED IN THE PLANS. THE EXISTING LOWERING CABLES SHALL BE REPLACED WITH STAINLESS STEEL CABLES THAT MEET THE FOLLOWING SPECIFICATIONS: MI-1379-SS, 3/16" DIA. 7X19 STAINLESS STEEL AIRCRAFT CABLE. THE CABLE SHALL BE MANUFACTURED IN ACCORDANCE WITH FEDERAL SPECIFICATION RR-W-410 TO THE REVISION IN EFFECT AT THE TIME OF PURCHASE. THE CABLE SHALL MEET THE DIMENSIONAL AND STRENGTH REQUIREMENTS OF MIL SPECIFICATION MIL-DTL-83420 TO THE REVISION IN EFFECT AT THE TIME OF PURCHASE. ALL CABLE SUPPLIED TO HOLOPHANE SHALL HAVE AN IDENTIFYING COLOR TRACER FILAMENT.

PAYMENT FOR THIS ITEM WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH HOISTING CABLE KIT.

**ITEM 631 – REMOVAL, MISC.: SCHOOL SPEED LIMIT SIGN ASSEMBLY**

THIS ITEM SHALL INCLUDE THE REMOVAL OF ALL COMPONENTS OF AN EXISTING SCHOOL SPEED LIMIT SIGN ASSEMBLY. THE FOLLOWING ITEMS SHALL BE REMOVED:

1. SCHOOL FLASHER SIGN ASSEMBLIES (INCLUDING BEACONS, SIGN, POST, TRANSFORMER BASE, AND INCIDENTAL HARDWARE)
2. POST AND TRANSFORMER BASE SHALL BE REMOVED AND SALVAGED FOR DISTRICT FORCES TO PICK UP.
3. REMOVE TOP 1' OF CONCRETE FOUNDATION.

TO SCHEDULE PICK UP OF SALVAGED ITEMS CONTACT: STEVE FRANKS: 419-207-7184

PAYMENT FOR THIS ITEM WILL BE MADE AT THE CONTRACT UNIT PRICE PER EACH REMOVAL AND SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO PERFORM THIS ITEM OF WORK AS DESCRIBED ABOVE.

**ITEM 201 – CLEARING AND GRUBBING**

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201, CLEARING AND GRUBBING.

DESIGN AGENCY



DESIGNER

MAE

REVIEWER

CAD 08/25/20

PROJECT ID

108007

SHEET TOTAL

P.2 18

