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GRE

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR

DAYTON POWER AND LIGHT COMPANY 1900 DRYDEN ROAD

DAYTON, OH 45439

RESPECTIVE OWNERS:

UTILITIES

937-331-4521 WILLIAM GOURLEY

WILLIAM.GOURLEY@AES.COM

MIAMI VALLEY LIGHTING 1065 WOODMAN DRIVE DAYTON, OH 45432 937-259-7192 ROBYN LIVESAY/STEVEN GALYO ROBYN.LIVESAY@AES.COM

STEVEN.GALYO@AES.COM

TC ENERGY (COLUMBIA GAS TRANSMISSION) ATTN: CROSSINGS & ENCROACHMENTS 700 LOUISIANA STREET, SUITE 700

HOUSTON, TX 77002 800-562-8931

US CROSSINGS@TCENERGY.COM

VECTREN/CENTERPOINT ENERGY COMPANY 6500 CLYO ROAD

CENTERVILLE, OH 45459 PUBLICPROJECT@CENTERPOINTENERGY.COM

AT&T OHIO 7201 FAR HILLS AVENUE DAYTON. OH 45459 937-296-3588 HOWARD LAUDERMILK HL1596@ATT.COM

CHARTER COMMUNICATIONS/SPECTRUM

3691 TURNER ROAD DAYTON, OH 45415 937-425-8854 CHRISTOPHER BOOKSH CHRISTOPHER.BOOKSH@CHARTER.COM

GREENE COUNTY WATER & SEWER 667 DAYTON-XENIA ROAD XENIA. OH 45385 937-562-7462 MARISSA RAGLIN/KEVIN MOYER MRAGLIN@CO.GREENE.OH.US KMOYER@CO.GREENE.OH.US

GREENE COUNTY ENGINEER'S OFFICE 615 DAYTON-XENIA ROAD XENIA, OH 45385 937-562-7500 STEPHANIE ANN GOFF SGOFF@CO.GREENE.OH.US

THAYER POWER AND COMMUNICATION LINE CONSTRUCTION COMPANY, LLC 950 FREEWAY DRIVE N. COLUMBUS, OH 43229 614-379-6419 TIM LAPOINTE TL0695@ATT.COM

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE THIS SHEET OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: ODOT VRS MONUMENT TYPE: TYPE B

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: *NAVD88*

GEOID 12B GEOID:

HORIZONTAL POSITIONING

NAD83(2011) REFERENCE FRAME:

ELLIPSOID: GRS80

MAP PROJECTION: LAMBERT CONFORMAL CONIC COORDINATE SYSTEM: OHIO STATE PLANE, SOUTH ZONE

COMBINED SCALE FACTOR: 1.00009387

ORIGIN OF COORDINATE SYSTEM: 0,0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS. EVEN THOUGH OTHERWISE SHOWN.

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. CONTRACTOR MUST COMPLY WITH ALL LOCAL NOISE ORDINANCES.

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	14	0	14
30"	6	0	6
48"	1	0	
60"	0	0	0

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET NO. 339.

POINT NORTHING EASTING ELEVATION DESCRIPTION CP1 616120.203 1620088.044 1058.94 IRON PIN SET CP2 615917.286 1619753.796 1057.87 IRON PIN AND CAP FOUL CP3 616331.350 1619572.094 1059.15 MAG NAIL SET CP4 617228.785 1619397.514 1063.44 IRON PIN SET CP5 618092.069 1619104.150 1062.45 IRON PIN SET CP6 619023.394 1618822.522 1065.59 IRON PIN SET CP7 619833.020 1618185.941 1066.80 IRON PIN SET CP8 620137.084 1618807.852 1065.22 MAG NAIL SET CP9 620661.642 1617162.559 1062.19 IRON PIN SET CP10 620532.003 1616645.288 1063.95 MAG NAIL SET CP11 621365.112 1615695.366 1065.10 IRON PIN SET CP12 621785.453 1614688.958 1062.16 IRON PIN SET CP14 623335.593		PRIMARY P	ROJECT CON	TROL INFOR	MATION (GROUND)
CP2 615917.286 1619753.796 1057.87 IRON PIN AND CAP FOUR CP3 616331.350 1619572.094 1059.15 MAG NAIL SET CP4 617228.785 1619397.514 1063.44 IRON PIN SET CP5 618092.069 1619104.150 1062.45 IRON PIN SET CP6 619023.394 1618822.522 1065.59 IRON PIN SET CP7 619833.020 1618185.941 1066.80 IRON PIN SET CP8 620137.084 1618807.852 1065.22 MAG NAIL SET CP9 620661.642 1617162.559 1062.19 IRON PIN SET CP10 620532.003 1616645.288 1063.95 MAG NAIL SET CP11 621365.112 1615695.366 1065.10 IRON PIN SET CP12 621785.453 1614688.958 1062.16 IRON PIN SET CP13 622371.048 1613880.333 1065.20 IRON PIN SET CP14 623335.593 1612828.283 1064.57 IRON PIN SET CP15 624389.010<	POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP3 616331.350 1619572.094 1059.15 MAG NAIL SET CP4 617228.785 1619397.514 1063.44 IRON PIN SET CP5 618092.069 1619104.150 1062.45 IRON PIN SET CP6 619023.394 1618822.522 1065.59 IRON PIN SET CP7 619833.020 1618185.941 1066.80 IRON PIN SET CP8 620137.084 1618807.852 1065.22 MAG NAIL SET CP9 620661.642 1617162.559 1062.19 IRON PIN SET CP10 620532.003 1616645.288 1063.95 MAG NAIL SET CP11 621365.112 1615695.366 1065.10 IRON PIN SET CP12 621785.453 1614688.958 1062.16 IRON PIN SET CP13 622371.048 1613880.333 1065.20 IRON PIN SET CP14 623335.593 1612828.283 1064.57 IRON PIN SET CP15 624389.010 1611773.173 1059.74 IRON PIN SET CP16 624994.338	CP1	616120.203	1620088.044	1058.94	IRON PIN SET
CP4 617228.785 1619397.514 1063.44 IRON PIN SET CP5 618092.069 1619104.150 1062.45 IRON PIN SET CP6 619023.394 1618822.522 1065.59 IRON PIN SET CP7 619833.020 1618185.941 1066.80 IRON PIN SET CP8 620137.084 1618807.852 1065.22 MAG NAIL SET CP9 620661.642 1617162.559 1062.19 IRON PIN SET CP10 620532.003 1616645.288 1063.95 MAG NAIL SET CP11 621365.112 1615695.366 1065.10 IRON PIN SET CP12 621785.453 1614688.958 1062.16 IRON PIN SET CP13 622371.048 1613880.333 1065.20 IRON PIN SET CP14 623335.593 1612828.283 1064.57 IRON PIN SET CP15 624389.010 16117793.173 1059.74 IRON PIN SET CP16 624994.338 1611137.840 1060.56 IRON PIN SET CP16 624507.932	CP2	615917.286	1619753.796	1057.87	IRON PIN AND CAP FOUND
CP5 618092.069 1619104.150 1062.45 IRON PIN SET CP6 619023.394 1618822.522 1065.59 IRON PIN SET CP7 619833.020 1618185.941 1066.80 IRON PIN SET CP8 620137.084 1618807.852 1065.22 MAG NAIL SET CP9 620661.642 1617162.559 1062.19 IRON PIN SET CP10 620532.003 1616645.288 1063.95 MAG NAIL SET CP11 621365.112 1615695.366 1065.10 IRON PIN SET CP12 621785.453 1614688.958 1062.16 IRON PIN SET CP13 622371.048 1613880.333 1065.20 IRON PIN SET CP14 623335.593 1612828.283 1064.57 IRON PIN SET CP15 624389.010 1611793.173 1059.74 IRON PIN SET CP16 624994.338 1611137.840 1060.56 IRON PIN SET CP17 624507.932 1610604.795 1062.74 MAG NAIL SET CP18 625893.742	CP3	616331.350	1619572.094	1059.15	MAG NAIL SET
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CP7 619833.020 1618185.941 1066.80 IRON PIN SET CP8 620137.084 1618807.852 1065.22 MAG NAIL SET CP9 620661.642 1617162.559 1062.19 IRON PIN SET CP10 620532.003 1616645.288 1063.95 MAG NAIL SET CP11 621365.112 1615695.366 1065.10 IRON PIN SET CP12 621785.453 1614688.958 1062.16 IRON PIN SET CP13 622371.048 1613880.333 1065.20 IRON PIN SET CP14 623335.593 1612828.283 1064.57 IRON PIN SET CP15 624389.010 1611793.173 1059.74 IRON PIN SET CP16 624994.338 1611137.840 1060.56 IRON PIN SET CP17 624507.932 1610604.795 1062.74 MAG NAIL SET CP18 625893.742 1610523.205 1067.51 IRON PIN SET CP20 627544.609 1610239.346 1067.40 IRON PIN SET CP21 628378.127	CP5	618092.069	1619104.150	1062.45	IRON PIN SET
CP8 620137.084 1618807.852 1065.22 MAG NAIL SET CP9 620661.642 1617162.559 1062.19 IRON PIN SET CP10 620532.003 1616645.288 1063.95 MAG NAIL SET CP11 621365.112 1615695.366 1065.10 IRON PIN SET CP12 621785.453 1614688.958 1062.16 IRON PIN SET CP13 622371.048 1613880.333 1065.20 IRON PIN SET CP14 623335.593 1612828.283 1064.57 IRON PIN SET CP15 624389.010 1611793.173 1059.74 IRON PIN SET CP16 624994.338 1611137.840 1060.56 IRON PIN SET CP17 624507.932 1610604.795 1062.74 MAG NAIL SET CP18 625893.742 1610523.205 1067.51 IRON PIN SET CP19 626606.845 1610639.567 1065.10 MAG NAIL SET CP20 627544.609 1610239.346 1067.40 IRON PIN SET CP21 628886.238 <td>CP6</td> <td>619023.394</td> <td>1618822.522</td> <td>1065.59</td> <td>IRON PIN SET</td>	CP6	619023.394	1618822.522	1065.59	IRON PIN SET
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CP10 620532.003 1616645.288 1063.95 MAG NAIL SET CP11 621365.112 1615695.366 1065.10 IRON PIN SET CP12 621785.453 1614688.958 1062.16 IRON PIN SET CP13 622371.048 1613880.333 1065.20 IRON PIN SET CP14 623335.593 1612828.283 1064.57 IRON PIN SET CP15 624389.010 1611793.173 1059.74 IRON PIN SET CP16 624994.338 1611137.840 1060.56 IRON PIN SET CP17 624507.932 1610604.795 1062.74 MAG NAIL SET CP18 625893.742 1610523.205 1067.51 IRON PIN SET CP19 626606.845 1610639.567 1065.10 MAG NAIL SET CP20 627544.609 1610239.346 1067.40 IRON PIN SET CP21 628378.127 1609770.865 1068.37 IRON PIN SET CP22 628886.238 1609340.934 1069.79 IRON PIN SET CP24 629132.301 </td <td>CP8</td> <td>620137.084</td> <td>1618807.852</td> <td>1065.22</td> <td>MAG NAIL SET</td>	CP8	620137.084	1618807.852	1065.22	MAG NAIL SET
CP11 621365.112 1615695.366 1065.10 IRON PIN SET CP12 621785.453 1614688.958 1062.16 IRON PIN SET CP13 622371.048 1613880.333 1065.20 IRON PIN SET CP14 623335.593 1612828.283 1064.57 IRON PIN SET CP15 624389.010 1611793.173 1059.74 IRON PIN SET CP16 624994.338 1611137.840 1060.56 IRON PIN SET CP17 624507.932 1610604.795 1062.74 MAG NAIL SET CP18 625893.742 1610523.205 1067.51 IRON PIN SET CP19 626606.845 1610639.567 1065.10 MAG NAIL SET CP20 627544.609 1610239.346 1067.40 IRON PIN SET CP21 628378.127 1609770.865 1068.37 IRON PIN SET CP22 628886.238 1609340.934 1069.79 IRON PIN SET CP23 628165.491 1608767.710 1070.37 IRON PIN SET CP24 629703.517 </td <td>CP9</td> <td>620661.642</td> <td>1617162.559</td> <td>1062.19</td> <td>IRON PIN SET</td>	CP9	620661.642	1617162.559	1062.19	IRON PIN SET
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CP14 623335.593 1612828.283 1064.57 IRON PIN SET CP15 624389.010 1611793.173 1059.74 IRON PIN SET CP16 624994.338 1611137.840 1060.56 IRON PIN SET CP17 624507.932 1610604.795 1062.74 MAG NAIL SET CP18 625893.742 1610523.205 1067.51 IRON PIN SET CP19 626606.845 1610639.567 1065.10 MAG NAIL SET CP20 627544.609 1610239.346 1067.40 IRON PIN SET CP21 628378.127 1609770.865 1068.37 IRON PIN SET CP22 628886.238 1609340.934 1069.79 IRON PIN SET CP23 628165.491 1609265.344 1067.05 IRON PIN SET CP24 629132.301 1608707.710 1070.37 IRON PIN SET CP25 629703.517 1607686.621 1075.64 IRON PIN SET	CP12	621785.453	1614688.958	1062.16	IRON PIN SET
CP15 624389.010 1611793.173 1059.74 IRON PIN SET CP16 624994.338 1611137.840 1060.56 IRON PIN SET CP17 624507.932 1610604.795 1062.74 MAG NAIL SET CP18 625893.742 1610523.205 1067.51 IRON PIN SET CP19 626606.845 1610639.567 1065.10 MAG NAIL SET CP20 627544.609 1610239.346 1067.40 IRON PIN SET CP21 628378.127 1609770.865 1068.37 IRON PIN SET CP22 628886.238 1609340.934 1069.79 IRON PIN SET CP23 628165.491 1609265.344 1067.05 IRON PIN SET CP24 629132.301 1608707.710 1070.37 IRON PIN SET CP25 629703.517 1607686.621 1075.64 IRON PIN SET	CP13	622371.048	1613880.333	1065.20	IRON PIN SET
CP16 624994.338 1611137.840 1060.56 IRON PIN SET CP17 624507.932 1610604.795 1062.74 MAG NAIL SET CP18 625893.742 1610523.205 1067.51 IRON PIN SET CP19 626606.845 1610639.567 1065.10 MAG NAIL SET CP20 627544.609 1610239.346 1067.40 IRON PIN SET CP21 628378.127 1609770.865 1068.37 IRON PIN SET CP22 628886.238 1609340.934 1069.79 IRON PIN SET CP23 628165.491 1609265.344 1067.05 IRON PIN SET CP24 629132.301 1608707.710 1070.37 IRON PIN SET CP25 629703.517 1607686.621 1075.64 IRON PIN SET	CP14	623335.593	1612828.283	1064.57	IRON PIN SET
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CP19 626606.845 1610639.567 1065.10 MAG NAIL SET CP20 627544.609 1610239.346 1067.40 IRON PIN SET CP21 628378.127 1609770.865 1068.37 IRON PIN SET CP22 628886.238 1609340.934 1069.79 IRON PIN SET CP23 628165.491 1609265.344 1067.05 IRON PIN SET CP24 629132.301 1608707.710 1070.37 IRON PIN SET CP25 629703.517 1607686.621 1075.64 IRON PIN SET	CP17	624507.932	1610604.795	1062.74	MAG NAIL SET
CP20 627544.609 1610239.346 1067.40 IRON PIN SET CP21 628378.127 1609770.865 1068.37 IRON PIN SET CP22 628886.238 1609340.934 1069.79 IRON PIN SET CP23 628165.491 1609265.344 1067.05 IRON PIN SET CP24 629132.301 1608707.710 1070.37 IRON PIN SET CP25 629703.517 1607686.621 1075.64 IRON PIN SET	CP18	625893.742	1610523.205	1067.51	IRON PIN SET
CP21 628378.127 1609770.865 1068.37 IRON PIN SET CP22 628886.238 1609340.934 1069.79 IRON PIN SET CP23 628165.491 1609265.344 1067.05 IRON PIN SET CP24 629132.301 1608707.710 1070.37 IRON PIN SET CP25 629703.517 1607686.621 1075.64 IRON PIN SET	CP19	626606.845	1610639.567	1065.10	MAG NAIL SET
CP22 628886.238 1609340.934 1069.79 IRON PIN SET CP23 628165.491 1609265.344 1067.05 IRON PIN SET CP24 629132.301 1608707.710 1070.37 IRON PIN SET CP25 629703.517 1607686.621 1075.64 IRON PIN SET	CP20	627544.609	1610239.346	1067.40	IRON PIN SET
CP23 628165.491 1609265.344 1067.05 IRON PIN SET CP24 629132.301 1608707.710 1070.37 IRON PIN SET CP25 629703.517 1607686.621 1075.64 IRON PIN SET	CP21	628378.127	1609770.865	1068.37	IRON PIN SET
CP24 629132.301 1608707.710 1070.37 IRON PIN SET CP25 629703.517 1607686.621 1075.64 IRON PIN SET	CP22	628886.238	1609340.934	1069.79	IRON PIN SET
CP25 629703.517 1607686.621 1075.64 IRON PIN SET	CP23	628165.491	1609265.344	1067.05	IRON PIN SET
	CP24	629132.301	1608707.710	1070.37	IRON PIN SET
CP26 630019.257 1607455.037 1067.35 IRON PIN SET	CP25	629703.517	1607686.621	1075.64	IRON PIN SET
	CP26	630019.257	1607455.037	1067.35	IRON PIN SET
CP27 630886.681 1607034.997 1064.04 IRON PIN SET	CP27	630886.681	1607034.997	1064.04	IRON PIN SET
CP28 631799.507 1606719.966 1058.55 IRON PIN SET	CP28	631799.507	1606719.966	1058.55	IRON PIN SET
CP29 632788.323 1606336.447 1058.01 IRON PIN SET	CP29	632788.323	1606336.447	1058.01	IRON PIN SET
CP30 633559.175 1605478.204 1063.29 IRON PIN SET	CP30	633559.175	1605478.204	1063.29	IRON PIN SET
CP31 633915.074 1604459.254 1063.67 IRON PIN SET	CP31	633915.074	1604459.254	1063.67	IRON PIN SET
CP32 634145.375 1603799.320 1070.91 IRON PIN SET	CP32	634145.375	1603799.320	1070.91	IRON PIN SET
CP33 634373.353 1603334.651 1070.79 IRON PIN SET	CP33	634373.353	1603334.651	1070.79	IRON PIN SET

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST 3 EACH 659. TOPSOIL 11,081 CU. YD. 659, SEEDING AND MULCHING 99,825 SQ. YD. 659. REPAIR SEEDING AND MULCHING 4,991 SQ. YD. 659. INTER-SEEDING 4.991 SQ. YD. 659. COMMERCIAL FERTILIZER 13.5 TON 659. LIME 20.6 ACRES 552 M. GAL. 659, WATER

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES. AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ITEM 606 - BRIDGE TERMINAL ASSEMBLY, TYPE 4, AS PER PLAN

THIS PAY ITEM SHALL INCLUDE THE COST TO FURNISH AND INSTALL ALL GUARDRAIL COMPONENTS (NORMAL AND EXTRA) OF THE 25' LONG BRIDGE TERMINAL ASSEMBLY. TYPE 4 AS SEEN ON THE PLAN INSERT SHEET.

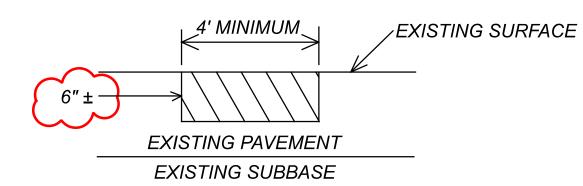
ITEM 617 - WATER

THE FOLLOWING ITEM IS PROVIDED TO APPLY WATER AS DIRECTED BY THE ENGINEER WHEN REQUIRED TO AID WITH THE COMPACTION AND TO PREVENT SEGREGATION OF ITEM 617. COMPACTED AGGREGATE.

617. WATER 1 MGAL

ITEM 253- PAVEMENT REPAIR. AS PER PLAN

AN ESTIMATED QUANTITY OF 285 CY YDS OF ITEM 253- PAVEMENT REPAIR, AS PER PLAN, HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER. THIS OPERATION SHALL BE PERFORMED BEFORE RESURFACING OF THE ROADWAY. RESURFACING OF THESE AREAS SHALL TAKE PLACE WITHIN 2 WEEKS OF PERFORMING THE REPAIR WORK.



EXISTING DETERIORATED ASPHALT SHALL BE REMOVED TO A MAXIMUM DEPTH OF 6" INCHES OR AS DIRECTED BY THE ENGINEER. THIS WORK CONSISTS OF PARTIAL DEPTH REMOVAL OF THE EXISTING PAVEMENT IN AREAS EXHIBITING DETERIORATION AT THE SURFACE, APPLYING TACK COAT AND PLACING AND COMPACTING ITEM 301 ASPHALT CONCRETE BASE. THE LOCATION AND SIZE OF THE REPAIR SHALL BE DETERMINED BY THE ENGINEER.

ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS. AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS. BOLTS. AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION. AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER. THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART. AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

DESIGN AGENCY

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CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL
INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF
CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL
BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY
PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE
AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

DRAINAGE DISCHARGE CONTINUANCE

FURNISH A DRAINAGE DISCHARGE CONTINUANCE FOR ANY DRAINAGE DISCHARGE DISTURBED BY THE WORK AND NOT SHOWN IN THE PLANS.

PROVIDE UNOBSTRUCTED OUTLETS TO ALL YARD DRAINS, FIELD DRAINS, AND SUMP LINES ENCOUNTERED DURING CONSTRUCTION. WHEN OUTLETTING YARD DRAINS, FIELD DRAINS, AND SUMP LINES INTO THE ROADWAY DITCH OR STORM SEWER USE ITEM 611 CONDUIT, MISC.: TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE. THE OPTIMUM OUTLET ELEVATION IS ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. FURNISH AN EROSION CONTROL PAD AS SHOWN IN THE STANDARD CONSTRUCTION DRAWING DM-1.1 WHEN OUTLETTING A CONDUIT TO A DITCH. THE COST OF THE EROSION CONTROL PAD AND NECESSARY BENDS OR BRANCHES IS INCLUDED FOR THE PAYMENT IN THE PERTINENT CONDUIT ITEMS.

FURNISH A DRILLED HOLE WHEN OUTLETTING INTO A STORM SEWER. THE COST OF THE DRILLED CORE HOLE IS INCLUDED IN THE PERTINENT CONDUIT ITEMS.

FURNISH A WELL GRADED TRANSITION BETWEEN THE DITCH AND SWALE WHEN OUTLETTING A SWALE TO A DITCH. THE COST FOR THE GRADED TRANSITION IS INCLUDED IN ITEM 203, EMBANKMENT, AS PER PLAN.

25 CU. YD.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER IN MAKING THE ABOVE DRAINAGE DISCHARGE CONTINUANCE:

ITEM 203. EMBANKMENT AS PER PLAN

ITEM 611, CONDUIT, MISC.: TYPE F FOR DRAINAGE 100 FT.
DISCHARGE CONTINUANCE

ASBESTOS ABATEMENT

AN ASBESTOS SURVEY FOR SFN 2901978 SCHEDULED FOR RENOVATION WORK WAS CONDUCTED BY A LICENSED ASBESTOS HAZARD EVALUATION SPECIALIST. THE ASBESTOS SURVEY DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS.

AN ASBESTOS SURVEY FOR SFN 2901994 SCHEDULED FOR RENOVATION WORK WAS CONDUCTED BY A LICENSED ASBESTOS HAZARD EVALUATION SPECIALIST. THE ASBESTOS SURVEY DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS.

AN ASBESTOS SURVEY FOR SFN 2902044 SCHEDULED FOR RENOVATION WORK WAS CONDUCTED BY A LICENSED ASBESTOS HAZARD EVALUATION SPECIALIST. THE ASBESTOS SURVEY DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS.

ELECTRONIC SUBMISSION:

THE CONTRACTOR SHALL SUBMIT ELECTRONICALLY TO OEPA A COMPLETED NOTIFICATION OF DEMOLITION & RENOVATION FORM (NORF) AND APPLICABLE FEES ALONG WITH THE ASBESTOS SURVEY REPORT. THE COMPLETED NORF MUST BE SUBMITTED TO OEPA AT LEAST 10 DAYS PRIOR TO ANY DEMOLITION AND RENOVATION ACTIVITY. THE CONTRACTOR IS RESPONSIBLE FOR RETAINING AN ELECTRONIC COPY OF THE NORF (IN PDF FORM) FOR SUBMISSION TO THE DISTRICT ENVIRONMENTAL STAFF AND ONE HARD COPY TO THE PROJECT ENGINEER.

(GO TO THE OEPA BUSINESS CENTER AND SUBMIT THE NORF AND PAYMENT ALONG WITH THE ASBESTOS SURVEY REPORT)

HARD COPY SUBMISSION:

THE CONTRACTOR MAY ELECT TO SUBMIT A HARD COPY OF THE COMPLETED NORF AND PAYMENT ALONG WITH THE ASBESTOS SURVEY REPORT TO THE FOLLOWING:

ASBESTOS PROGRAM
OHIO EPA, DAPC
OR
OHIO EPA, DAPC
P.O.BOX 1049
COLUMBUS, OHIO 43216-1049
ASBESTOS PROGRAM
OHIO EPA, DAPC
50 W. TOWN ST., SUITE 700
COLUMBUS, OHIO 43215

IF THE CONTRACTOR ELECTS TO SUBMIT A HARD COPY TO OEPA THEY ARE RESPONSIBLE FOR RETAINING A HARD COPY OF THE NORF FOR SUBMISSION TO THE DISTRICT ENVIRONMENTAL STAFF AND ONE HARD COPY TO THE PROJECT ENGINEER.

BASIS OF PAYMENT

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

690E98400 ITEM SPECIAL - WORK INVOLVING ASBESTOS CONTAINING MATERIALS - LUMP SUM

INTERIM COMPLETION DATES

FOR THE PURPOSE OF MAINTAINING TRAFFIC, THE PROJECT HAS BEEN DIVIDED INTO 3 MAIN SECTIONS.

SECTION #1: STATION 459+00 TO 561+00 (INCLUDING WOLFORD ROAD)
SECTION #2: STATION 534+50 TO 667+00
SECTION #3: STATION 653+00 TO 767+00

EACH SECTION INCLUDES 2 OR 3 MOT PHASES (SEE PLAN SHEETS 15-34)

ALL WORK CAPTURED UNDER ANY ONE SECTION THAT IS INITIATED WITHIN THE 2023 CONSTRUCTION SEASON SHALL BE FULLY COMPLETED BY THE INTERIM COMPLETION DATE 10/31/2023.

ANY REMAINING SECTION SHALL NOT BEGIN WORK UNTIL 4/01/2024 AND SHALL BE COMPLETED BY THE FINAL COMPLETION DATE 8/01/2024.

DISINCENTIVES IN THE AMOUNT OF \$4,300 PER CALENDAR DAY WILL BE ASSESSED FOR FAILURE TO PERFORM WORK WITHIN A SECTION BY THE INTERIM COMPLETION DATE AND THE FINAL COMPLETION AS SPECIFIED ABOVE.

COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN

COFFERDAMS AND EXCAVATION BRACING INSTALLED FOR THE PROJECT ARE FOR DEWATERING THE WORK AREA AND ARE CONSIDERED FILL. COFFERDAMS AND EXCAVATION BRACING DESIGN, CONSTRUCTION, AND REIMBURSEMENT FOR DAMAGE IS BASED ON CMS 503. THE CONTRACTOR MUST COMPLY WITH ANY INSTREAM RESTRICTION IN THE SPECIAL PROVISIONS – WATERWAY PERMIT. ADDING FILL TO THE STREAM TO DEWATER THE WORK AREA REQUIRES A TEMPORARY ACCESS FILL (TAF) SUBMISSION PER THE SPECIAL PROVISIONS.

IF THE CONTRACTOR CHOOSES TO IMPACT THE STREAM DURING
THE MONTHS OF APRIL THROUGH OCTOBER: ALL REQUIREMENTS
OF CMS 503 APPLY. UNLESS STIPULATED ELSEWHERE IN THIS NOTE.

IF THE CONTRACTOR CHOOSES TO IMPACT THE STREAM AT ANY
TIME IN THE MONTHS OF NOVEMBER THROUGH MARCH: EVEN IF
THE ACTUAL WATER ELEVATION EXCEEDS 3 FEET ABOVE THE
STATED ORDINARY HIGH WATER MARK, THE DEPARTMENT WILL NOT
REIMBURSE THE CONTRACTOR FOR RESULTING DAMAGE TO THE
WORK PROTECTED BY THE COFFERDAM. ALL OTHER
REQUIREMENTS OF CMS 503 APPLY.

DESIGN AGENCY



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ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT ONE LANE OF SOUTHBOUND TRAFFIC MAY BE MAINTAINED AND ONE LANE OF NORTHBOUND TRAFFIC MAY BE CLOSED USING A DIRECTIONAL CLOSURE SHOWN ON SHEET 4 BETWEEN APRIL 15 AND OCTOBER 15, BY USE OF THE EXISTING PAVEMENT AND THE COMPLETED PAVEMENT.

BY THE END OF THE WORK DAY, THE OPEN TRENCH SHALL BE BACKFILLED TO COMPLY WITH MT-101.90 USING DRUMS TO PROTECT THE DROP OFF.

BEFORE REOPENING THE LANE TO TRAFFIC DURING THE DIRECTIONAL CLOSURE, ITEM 301 BITUMINOUS AGGREGATE BASE SHALL BE COMPLETED FLUSH WITH THE EXISTING PAVEMENT. THE DEPARTMENT WILL PAY FOR THE PERMANENT ITEM 301 BITUMINOUS AGGREGATE BASE THAT IS COMPLETED AND LEFT IN PLACE. THE WASTE TEMPORARY MATERIAL SHALL BE CONSIDER INCIDENTAL AND INCLUDED IN THE LUMP SUM ITEM 614 MAINTAINING TRAFFIC.

TRAFFIC ON SOUTHBOUND SR 72 SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, AND TEMPORARY SURFACES USING ITEM 614 AND/OR ITEM 615.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

SEQUENCE OF CONSTRUCTION

THE FOLLOWING SEQUENCE OF CONSTRUCTION IS ASSUMED FOR THIS PROJECT. THE PROJECT CORRIDOR WILL BE DIVIDED INTO THREE SEGMENTS, AS SHOWN ON SHEET 15.

SECTION 1 - PRE-PHASE 1:

PLACE WORK ZONE PAVEMENT ON THE SB SHOULDER IN THE VICINITY OF THE PROPOSED SR 72 PIPE CROSSINGS, FOR PIPES WHICH WILL BE OPEN CUT, AS SHOWN ON SHEET 21. MAINTAIN TWO- WAY TRAFFIC USING FLAGGERS.

PHASE 1:

* DETOUR NB TRAFFIC AS SHOWN IN THE DETOUR PLAN. CLOSE THE NB LANE ON SR 72 FROM KLONTZ ROAD TO WOLFORD ROAD. CONSTRUCT THE NB SHOULDER WIDENING FROM STA 503+25 TO WOLFORD RD. DO NOT INSTALL THE SURFACE COURSE. BEGIN CONSTRUCTION OF THE GRE-72-9.46 CULVERT. AS SHOWN ON SHEET 20.

PHASE 2:

* SHIFT SB SR 72 TRAFFIC TO THE NB SIDE OF SR 72 AND CONSTRUCT THE SB SHOULDER AS SHOWN ON SHEETS 23 THRU 25. IT IS ASSUMED THAT THE CULVERT ON THE SB SIDE WILL STILL BE UNDER CONSTRUCTION. COMPLETE SHOULDER WIDENING ON THE SB SIDE TO STA 504+00, IN ORDER TO ACCOMMODATE THE CROSSOVER TRAFFIC PATTERN IN PHASE 3.

PHASE 3:

CROSS OVER SB TRAFFIC BACK TO THE SB SIDE IN THE VICINITY OF GRE-72-9.46, AND COMPLETE CONSTRUCTION OF THE CULVERT AND SHOULDER WIDENING.

SECTION 2 AND 3 WILL FOLLOW THE EXAMPLE MOT SET UP USED FOR SECTION 1. IN ADDITION TO OTHER REQUIREMENTS LISTED IN THIS PLAN, THE FOLLOWING REQUIREMENTS SHALL BE MET FOR EACH SECTION OF CONSTRUCTION:

1) CONSTRUCTION OF EACH SEGMENT SHALL BEGIN ON THE NB SIDE, TO ALLOW CROSSROAD TRAFFIC TO ADJUST TO 1-WAY OPERATIONS WHILE SB TRAFFIC IS MAINTAINED IN ITS NATURAL LANE.

2) ALL LANE SHIFTS SHALL BE MADE IN EITHER STRAIGHT TAPERS WITH A 55:1 TAPER, OR REVERSE CURVES WITH A MINIMUM 1980' RADIUS.

3) PIPES INSTALLATIONS UNDER SR 72 SHALL FOLLOW THE DETAILS PROVIDED IN SECTION C-C, ON SHEET 21.

4) SEGMENT 2 SHALL NOT BE CONSTRUCTED CONCURRENTLY WITH SEGMENT 1 OR SEGMENT 3, IN ORDER TO KEEP DESIGNATED LOCAL DETOUR ROUTES OPEN.

ITEM 614, MAINTAINING TRAFFIC (CONT.)

5) IF WORK ZONE MARKINGS ARE PLACED ON THE SURFACE COURSE PAVEMENT, THE MARKINGS SHALL BE PLACED IN THE SAME ALIGNMENT AS THE FINAL MARKINGS.

6) MARKINGS WHICH ARE NOT IN THE FINAL ALIGNMENT SHALL BE PLACED ONLY ON EXISTING PAVEMENT TO BE RESURFACED, TEMPORARY PAVEMENT, OR INTERMEDIATE COURSE PAVEMENT.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES, IN CONFORMANCE WITH CM&S 614.02 (B). THIS WORK COULD INCLUDE, BUT IS NOT LIMITED TO TEMPORARY GRADING, JACKING TEMPORARY PIPES UNDER SR 72 TO MAINTAIN DRAINAGE WHILE EXISTING PIPES ARE REMOVED, EXTENDING EXISTING PIPES DURING CONSTRUCTION OF WORK ZONE PAVEMENT, OR EXTENDING DRIVEWAY PIPES FOR PLACEMENT OF TRAFFIC COMPACTED SURFACE.

NOTICE OF CLOSURE SIGNS W20-H13 SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLAT SHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO THE PUBLIC
RAMP & ROAD	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
CLOSURES	>12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

ROAD WILL BE CLOSED MM-DD FOR DAYS INFO: 1-513-933-6600

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY: ITEM 614 MAINTAINING TRAFFIC (LUMP)

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVERNIGHT TRENCH CLOSURE

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 12 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER, AT NO ADDITIONAL COST TO THE PROJECT.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 100 M. GAL

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK.

IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

<u>ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS</u> (UNIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS. FROM THE ROADWAY STANDARDS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

DESIGN AGENCY



MJH
REVIEWER
KAE 1-26-22

DESIGNER

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SHEET NO.	PHASE	REF.	STA	TION	INCREASED BARRIER DELINEATION	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, UNIDIRECTIONAL)	ARRIER REFLECTOR, YPE 1 (ONE-WAY)	BJECT MARKER, INE WAY	HITE	ELLOW	WORK ZONE EDGE LINE, CLASS III, 6", 624 PAINT	WORK ZONE CENTER LII CLASS III, 6", 624 PAI	WORK ZONE STOP LINE	WORK ZONE ARROW, CLASS I	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	PORTABLE BARRIER, UNANCHORED		
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31-32	PHASE 2	WEY-5	547+34	662+00					11100	11466								
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34	PHASE 2	WEW-6	662+61	763+12					10051									
34	PHASE 2	WEY-6	662+61	763+12						10051								
PI	IPE CONSTRUCTI GRE-72-1025	ON I	541+00		140	2	7	7							190	140		
	GRE-72-1023		576+16		140	2	3	3							190	140		
	GRE-72-1115		591+48		140	2	3	3							190	140		
	GRE-72-1162 GRE-72-1241		625+21 657+00		140	2	3	3							190 190	140 140		
	GRE-72-1241		673+87		140 140	2	<u> </u>	3							190	140		
	GRE-72-1316		696+44		140	2	3	3							190	140		
	GRE-72-1358		715+54		140	2	3	3							190	140		
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SHOULDER **PHASE** ~ SECTION

EGGEMAN ENGINEERIN & CONSULTING

6958 OLD CLIFTON RD SPRINGFIELD, OH 45502 (937) 319-6426 MJH REVIEWER KAE 1-26-22

112038

GRAND SHEET NUM. PART. ITEM SEE ITEM UNIT DESCRIPTION SHEET NO EXT TOTAL 41 43 60 336 01/STR/PV | 02/SAF/OT | 03/STR/BR 04/STR/CV | 05/SAF/CV **ROADWAY** LS **CLEARING AND GRUBBING** 201 11000 LS 13 2 202 20010 13 EACH HEADWALL REMOVED 15,077 202 8,882 6,676 214 695 23000 15,772 PAVEMENT REMOVED SY 134 202 23500 134 WEARING COURSE REMOVED WALK REMOVED 76 76 202 30000 76 PIPE REMOVED 1,139 1,139 202 34900 1,139 FT 386 386 35100 386 PIPE REMOVED, 24" AND UNDER 169 35200 PIPE REMOVED, OVER 24" 113 202 169 FT 1,241 1,241 202 38000 1,241 FT GUARDRAIL REMOVED 12 12 12 ANCHOR ASSEMBLY REMOVED, TYPE A, AS PER PLAN 202 42001 EACH 202 47000 8 EACH BRIDGE TERMINAL ASSEMBLY REMOVED 8 202 18 18 53100 18 EACH MAILBOX REMOVED 58100 202 EACH CATCH BASIN REMOVED FENCE REMOVED 208 208 202 75000 208 FT 202 75250 EACH GATE REMOVED 202 98100 EACH REMOVAL MISC.:CLEANOUT REMOVAL MISC.:DELINEATOR POST 202 98100 8 EACH SUMMARY 202 98100 EACH REMOVAL MISC.:FENCE POST 202 98100 EACH REMOVAL MISC.:FLAGPOLE 202 98100 EACH REMOVAL MISC.:POLE FOUNDATION 15 15 202 98100 15 EACH REMOVAL MISC.:POST 202 98100 EACH REMOVAL MISC.:ROCK 202 98100 EACH REMOVAL MISC.:YARD DRAIN GENERAL 21,097 21,097 203 10000 21,097 CY **EXCAVATION** 25,732 25,732 203 20000 25,732 EMBANKMENT CY 25 28,946 EMBANKMENT, AS PER PLAN 25 10 15,431 44,377 SY SUBGRADE COMPACTION 10000 29,988 14,175 214 19,440 19,440 204 13000 EXCAVATION OF SUBGRADE 19,440 39,802 39,802 204 30020 39,802 GRANULAR MATERIAL, TYPE C CY 45000 **^** 22 PROOF ROLLING 22 22 204 HOUR 35,080 35,080 204 50000 35,080 SY GEOTEXTILE FABRIC 4,542 4,542 204 51000 4,542 **GEOGRID** SY 209 72000 72 PREPARING SUBGRADE FOR SHOULDER PAVING 72 61 11 787.5 787.5 606 15050 787.5 FT GUARDRAIL, TYPE MGS 100 100 606 17350 100 FT GUARDRAIL, TYPE MGS, 25' LONG-SPAN ANCHOR ASSEMBLY, MGS TYPE E (NCHRP 350 OR MASH 2016) 12 12 606 26150 12 EACH MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 606 35002 EACH BRIDGE TERMINAL ASSEMBLY, TYPE 4, AS PER PLAN 606 35141 6 EACH 267 267 608 267 10000 4" CONCRETE WALK MONUMENT BOX RECONSTRUCTED TO GRADE 623 39600 115 115 115 REFERENCE MONUMENT 623 40500 EACH 33 33 623 40520 33 EACH RIGHT-OF-WAY MONUMENT 00110 626 30 EACH BARRIER REFLECTOR, TYPE 2, BI-DIRECTIONAL 19 SPECIAL 69050000 19 EACH MAILBOX SUPPORT 19 878 25000 LS LS INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS **EROSION CONTROL** ROCK CHANNEL PROTECTION, TYPE C WITH FILTER 27 27 21 601 32200 917 917 601 45020 917 SY INFILTRATION BASIN FILTER 659 00100 3 EACH SOIL ANALYSIS TEST 3,810 14,891 659 00300 14,891 CY TOPSOIL DESIGN AGENCY 99,825 659 99,825 10000 99,825 SY SEEDING AND MULCHING 4,991 4,991 659 14000 4,991 REPAIR SEEDING AND MULCHING INTER-SEEDING 4,991 4,991 659 15000 SY 4,991 COMMERCIAL FERTILIZER 13.5 13.5 659 20000 13.5 TON 659 20.6 20.6 31000 20.6 ACRE LIME WATER 552 35000 552 659 MGAL DESIGNER φ. 23 23 660 30000 23 SY SODDING UNSTAKED REVIEWER N 34,288 34,288 34,288 DITCH EROSION PROTECTION FRR 2/3/22 670 00700 STORM WATER POLLUTION PREVENTION PLAN LS LS LS 832 15000 PROJECT ID GRE 112038 LS LS LS 832 15002 LS STORM WATER POLLUTION PREVENTION INSPECTIONS P.37 421

BENERAL SUMMARY

DESIGN AGENCY

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DESIGNER
BLC
REVIEWER
FRR 2/3/2

FRR 2/3/22
PROJECT ID

112038
SHEET TOTAL
P.39 421

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		CY	CY	CV	rev	SY	SY	SY		CY	CY	CV	CY	SY	SY	SY	
	TOTALS FROM SHEET 111	29	19	166	93	144	31	173	TOTALS FROM SHEET 160	176	140	96	287	255	31	640	
	TOTALS FROM SHEET 112	106	76	377	145	324	74	621	TOTALS FROM SHEET 161	118	170	71	195	162		523	
	TOTALS FROM SHEET 113	149	140	135	276	235	176	759	TOTALS FROM SHEET 162	157	350	142	392	333		974	
	TOTALS FROM SHEET 114	107	194	146	248	252	110	690	TOTALS FROM SHEET 163	76	283	108	291	252		668	
	TOTALS FROM SHEET 115	217	228	146	243	249		871	TOTALS FROM SHEET 164	118	303	108	285	249		777	
	TOTALS FROM SHEET 116	579	207	171	306	243		1182	TOTALS FROM SHEET 165	194	380	68	191	159		1109	>
	TOTALS FROM SHEET 117	387	138	76	207	168		812	TOTALS FROM SHEET 166	105	95	31	87	84		395	
	TOTALS FROM SHEET 118	344	222	99	307	260		1026	TOTALS FROM SHEET 167	179	280	99	280	252		855	
	TOTALS FROM SHEET 119	275	217	93	296	255		940	TOTALS FROM SHEET 168	134	209	116	293	246		688	\[\breeze
	TOTALS FROM SHEET 120	163	240	115	300	252		557	TOTALS FROM SHEET 169	83	130	76	190	159		432	
	TOTALS FROM SHEET 121	181	404	156	406	336		1124	TOTALS FROM SHEET 170	117	229	102	285	234		735	38
	TOTALS FROM SHEET 122	48	221	87	203	168		498	TOTALS FROM SHEET 171	141	207	102	285	234		738	
	TOTALS FROM SHEET 123	77	212	118	329	269		532	TOTALS FROM SHEET 172	85	114	59	198	156		401	S
	TOTALS FROM SHEET 124	128	85	65	214	185		418	TOTALS FROM SHEET 173	133	154	81	298	234		632	×
	TOTALS FROM SHEET 125	349	135	87	296	252		990	TOTALS FROM SHEET 174	146	123	149	396	321		687	
	TOTALS FROM SHEET 126	141	69	34	100	84		417 1101	TOTALS FROM SHEET 175	77	112	50 87	198	168		432	Ιš
	TOTALS FROM SHEET 129	327 379	194 288	102 99	291 300	252 252		1044	TOTALS FROM SHEET 176	111 57	217 184	48	288	252 84		737 576	丘
	TOTALS FROM SHEET 128 TOTALS FROM SHEET 129	443	282	115	300	252		1079	TOTALS FROM SHEET 177 TOTALS FROM SHEET 178	107	251	96	285	249	249	749	
	TOTALS FROM SHEET 130	231	236	105	296	252		902	TOTALS FROM SHEET 179	151	245	102	282	234	234	772	
	TOTALS FROM SHEET 131	147	202	90	293	252		788	TOTALS FROM SHEET 180	126	249	90	270	234	234	749	Ш
	TOTALS FROM SHEET 132	133	230	93	324	265		752	TOTALS FROM SHEET 181	192	191	99	270	234	234	821	
<u>_</u>	TOTALS FROM SHEET 133	251	160	90	315	265		848	TOTALS FROM SHEET 182	215	285	121	377	312	312	754	
12.dg	TOTALS FROM SHEET 134	175	102	76	200	168		595	TOTALS FROM SHEET 183	178	230	93	279	234	234	824	
3800	TOTALS FROM SHEET 135	162	201	102	300	252		777	TOTALS FROM SHEET 184	172	191	90	293	252	252	762	
)38_(TOTALS FROM SHEET 136	141	165	129	315	265		702	TOTALS FROM SHEET 185	184	128	96	324	268	118	648	
s/II20	TOTALS FROM SHEET 137	181	134	107	315	267		735	TOTALS FROM SHEET 186	131	90	67	193	168		479	
66+8	TOTALS FROM SHEET 138	234	115	149	248	232		620	TOTALS FROM SHEET 187	129	93	73	190	168		489	
/Sh	TOTALS FROM SHEET 139	284	171	113	303	255		796	TOTALS FROM SHEET 188	256	150	84	276	252		857	
dway dway	TOTALS FROM SHEET 140	248	213	131	259	210		957	TOTALS FROM SHEET 189	249	219	121	377	315		1044	
cdek Roa	TOTALS FROM SHEET 141	120	82	71	162	126		429	TOTALS FROM SHEET 190	235	237	121	371	312		1042	
SER:	TOTALS FROM SHEET 142	73	15	42	109	87		206	TOTALS FROM SHEET 191	189	170	84	285	234		788	
US	TOTALS FROM SHEET 143	240	52	141	311	255		676	TOTALS FROM SHEET 192	232	127	70	238	195		898	
PM	TOTALS FROM SHEET 144	59	95	70	203	168		381	TOTALS FROM SHEET 193	235	32	59	146	126		671	
:17:16 00-E	TOTALS FROM SHEET 145 TOTALS FROM SHEET 146	72 143	38 176	62 115	279 301	162 260		304 654	TOTALS FROM SHEET 194	50 140	45 123	104	148 380	126 333		248 626	
1E: 9; 71\4	TOTALS FROM SHEET 146 TOTALS FROM SHEET 147	248	237	122	276	260		884	TOTALS FROM SHEET 195 TOTALS FROM SHEET 196	140	26	104 57	15	500		275	
TIN 72-8.	TOTALS FROM SHEET 148	163	174	102	246	232		735	TOTALS FROM SHEET 190 TOTALS FROM SHEET 197	n	28	n	0	0		245	
2022 3.RE-7.	TOTALS FROM SHEET 149	196	201	51	176	154		704	TOTALS FROM SHEET 198	98	55	37	126	117		607	
79/5	TOTALS FROM SHEET 150	376	232	104	303	246		1013	TOTALS FROM SHEET 199	147	217	99	274	234		668	DESIGN AG
E; 12	TOTALS FROM SHEET 151	271	226	76	207	173		963	TOTALS FROM SHEET 200	148	107	84	232	196		549	
DAT)DOT	TOTALS FROM SHEET 152	163	272	154	276	231		840	TOTALS FROM SHEET 201	93	71	70	189	186		389	
n.) 71/(TOTALS FROM SHEET 153	151	230	157	251	246		765	TOTALS FROM SHEET 202	45	4	65	176	153		184	
22 († 72-8	TOTALS FROM SHEET 154	170	161	110	288	246		726	TOTALS FROM SHEET 203	48	14	62	212	173		212	OH
34×. GRE-	TOTALS FROM SHEET 155	163	259	136	386	336		909	TOTALS FROM SHEET 204	102	75	84	335	276		633	
71 RSIZE:	TOTALS FROM SHEET 156	106	243	117	306	252		710	TOTALS FROM SHEET 205	45	46	31	109	84		729	DESIGNER
• - 0	TOTALS FROM SHEET 157	64	117	59	150	120		373	TOTALS FROM SHEET 206	77	93	87	318	252		483	(
2-8 PAPE	TOTALS FROM SHEET 158	164	233	115	298	252		804	TOTALS FROM SHEET 207	79	69	87	315	263		468	REV FRR
- 7	TOTALS FROM SHEET 159	222	190	117	285	252	050	798	TOTALS FROM SHEET 208	78	116	87	293	252	4007	637	PROJECT
GRE. MODEL: She	TOTALS TABLE 1	9780	8733	5493	12841	11162	250	36180	TOTAL TABLE 2	6353	7657	4077	12154	10316	1867	31299	112
40DE %:\6 (SHEET P.109
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EARTHWORK SUBSUMMARY SHEET SUB-TITLE

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REVIEWER
R 09/17/21

JECT ID
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	203	203	204		204	204	009		203	200	204		204	204	
	EXCAVATION	EMBANKMENT	EXCAVATION OF SUBGRADE	GRANULAR MATERIAL, TYPE C	GEOTEXTILE FABRIC	GEOGRID	SEEDING AND MULCHING	STATION TO STATION	EXCAVATION	EMBANKMENT	EXCAVATION OF SUBGRADE	GRANULAR MATERIAL, TYPE C	GEOTEXTILE FABRIC	GEOGRID	SEEDING AND MULCHING
	CY	CY	CN	CY	SY	SY	SY		CY	CY	en	CY	SY	SY	SY
TOTALS FROM SHEET 209	49	63	67	196	168		254	TOTALS FROM SHEET 258	63	84	96	193	168		291
TOTALS FROM SHEET 210	50	82	62	203	168	168	298	TOTALS FROM SHEET 259	110	153	124	296	256		528
TOTALS FROM SHEET 211	95	167	124	303	252	252	590	TOTALS FROM SHEET 260	96	161	107	295	259		491
TOTALS FROM SHEET 212	29	316	354	380	327	327	718	TOTALS FROM SHEET 261	118	123	131	296	254		502
TOTALS FROM SHEET 213	16	94	218	224	190	190	357	TOTALS FROM SHEET 262	94	42	86	184	159		161
TOTALS FROM SHEET 214	21	106	165	184	156	156	337	TOTALS FROM SHEET 263	112	122	113	266	235		436
TOTALS FROM SHEET 215	28	163	285	306	260	260	510	TOTALS FROM SHEET 264	110	150	276	92	244		623
TOTALS FROM SHEET 216	57	99	304	312	267	267	571	TOTALS FROM SHEET 265	94	134	276	95	240		564
TOTALS FROM SHEET 217	57	67	151	151	135	135	498	TOTALS FROM SHEET 266	156	68	281	115	254		492
TOTALS FROM SHEET 218	42	156	271	298	255	255	557	TOTALS FROM SHEET 267	175	108	275	96	249		580
TOTALS FROM SHEET 219	59	133	352	380	321	321	623	TOTALS FROM SHEET 268	134	181	285	117	249		641
TOTALS FROM SHEET 220	37	129	263	285	240	94	485	TOTALS FROM SHEET 269	115	134	255	118	219		586
TOTAL O FROM SHEET 221	36	193	368	383	333	-	691	TOTALS FROM SHEET 270	33	/	73	18	63		28
TOTAL O FROM SHEET 222	69	109	286	289	252	-	676								
TOTALS FROM SHEET 224	05	199	257	285	249 189		615								
TOTALS FROM SHEET 224	63	170 157	171	218 227	195		573 530								
TOTALS FROM SHEET 225 TOTALS FROM SHEET 226	126	249	90	270	234		749								
TOTALS FROM SHEET 227	208	100	134	309	265		398								
TOTALS FROM SHEET 228	88	119	119	307	264		436								
TOTALS FROM SHEET 229	59	130	69	172	149		402								
TOTALS FROM SHEET 230	94	230	116	272	233		635								
TOTALS FROM SHEET 231	149	251	107	225	194		906								
TOTALS FROM SHEET 232	88	189	73	141	122		606								
TOTALS FROM SHEET 233	92	192	150	281	241		562								
TOTALS FROM SHEET 234	58	207	151	278	238		512								
TOTALS FROM SHEET 235	106	147	126	395	252	-	495								
TOTALS FROM SHEET 236	64	62	80	95	102	-	257								
TOTALS FROM SHEET 237	134	166	115	285	245	-	580								
TOTALS FROM SHEET 238	88	133	112	205	176		464		<u> </u>						
TOTALS FROM SHEET 240	58	157 241	98	188	162 240		458 692								
TOTALS FROM SHEET 240 TOTALS FROM SHEET 241	105	194	143	279 288	240		716		-						
TOTALS FROM SHEET 241 TOTALS FROM SHEET 242	86	250	138	281	240	+	682		1						
TOTALS FROM SHEET 243	181	363	208	399	341	+ '	1058		1						
TOTALS FROM SHEET 244	238	313	174	343	294		1246								
TOTALS FROM SHEET 245	107	236	106	263	224		677								
TOTALS FROM SHEET 246	67	78	99	205	132		279								
TOTALS FROM SHEET 247	48	102	101	194	167		273								
TOTALS FROM SHEET 248	113	307	154	366	325		745								
TOTALS FROM SHEET 249	26	10	34	88	94		212								
TOTALS FROM SHEET 250	9	6	26	56	49		151								
TOTAL OF FROM SHEET 251	4	147	95	239	204		528		<u> </u>						
TOTALS FROM SHEET 252	6	198	125	283	248		469	TOTAL O EDOMATINO TABLE	4440	4407	0070	0404	0040		
TOTALS FROM SHEET 253	27	117	116	296	254		461	TOTALS FROM TABLE	1410	1467	2378	2181	2849	250	5923
TOTALS FROM SHEET 254	23	39	43	101	87		126	TOTALS FROM TABLE 1	9780 6353	8733	5493	12841	11162	250 1867	36180
$T \cap T A I \in ED \cap M CHEET CEE$	59	147	135 126	304	260 258		572 606	TOTALS FROM TABLE 2 TOTALS FROM TABLE 3	3554	7657 7875	4077 7492	12154 12626	10316 10753	2425	31299 26423
TOTALS FROM SHEET 255	hh	. 1731.1	120	JUU	230				JJJ 4	1010	1432	12020	10133	Z4ZJ	
TOTALS FROM SHEET 256	56 56		22	20/	253	i	587	TOTAL CARRIED TO SHEET 8							99825
	56 56 3554	212 7875	88 7492	294 12626	253 10753	2425	587 26423	TOTAL CARRIED TO SHEET 8 TOTALS CARRIED TO GENERAL SUMMARY	21097	25732	19440	39802	35080	4542	99825

EARTHWORK SUBSUMMARY SHEET SUB-TITLE

SIGN AGENCY

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SIGNER CLD REVIEWER
ROJECT ID
112038

P.110 421

07/19/02 07/15/11

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

DATED 10/18/19 843

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN LOADING

HS-20-44

FUTURE WEARING SURFACE (FWS) OF 0.060 KSF

DESIGN DATA

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (HEADWALL)

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 AND 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

ITEM 202, PORTIONS OF STRUCTURE REMOVED

THIS WORK CONSISTS OF THE REMOVAL OF PORTIONS OF THE EXISTING CONCRETE HEADWALL AS SHOWN ON THE PLANS AND AS SPECIFIED BY THE FOLLOWING NOTES. THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE OF EQUIPMENT IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

REMOVAL METHODS:

THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER STRUCTURAL MEMBERS THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS BUT NOT TO EXCEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

PERFORM WORK CAREFULLY DURING CONCRETE REMOVAL TO AVOID DAMAGING STRUCTURAL MEMBERS THAT ARE TO REMAIN. REPAIR AREAS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PERFORMING THE REPAIR.

CUT LINE CONSTRUCTION JOINT PREPARATION:

SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

MEASUREMENT & PAYMENT:

THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202 - PORTIONS OF STRUCTURE REMOVED.

STANDARD ABBREVIATIONS LIST

BRG = BEARING C.J. = CONSTRUCTION JOINT CONST. = CONSTRUCTION C.P.P = CORRUGATED PLASTIC PIPE E.F. = EACH FACE EL. = ELEVATION

EX. = EXISTING F.A. = FORWARD ABUTMENT

F.F. = FAR FACEGFRP = GLASS FIBER REINFORCED POLYMER HMWM = HIGH MOLECULAR WEIGHT

METHACRYLATE INT = INTEGRAL

M.C. = MECHANICAL CONNECTOR M.E. = MATCH EXISTING

MGS = MIDWEST GUARDRAIL SYSTEM MIN. = MINIMUMN.F. = NEAR FACEPCB = PORTABLE CONCRETE BARRIER

PEJF = PREFORMED EXPANSION JOINT FILLER PROP. = PROPOSED R.A. = REAR ABUTMENT

RAD. = RADIUSRCP = ROCK CHANNEL PROTECTION SHLD. = SHOULDER S.O. = SERIES OF SPA. = SPACES

STA. = STATIONU.N.O. = UNLESS NOTED OTHERWISE

			E	ESTIMATED QUANTITIES	
ITEM	ITEM EXT	TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
202	11200	LUMP		PORTIONS OF STRUCTURE REMOVED	
503	11101	LUMP		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	10
<u>~~</u>		~~~	~~~		
509	10000	344	LB.	EPOXY COATED REINFORCING STEEL	
511	46610	3	CU. YD.	CLASS QC1 CONCRETE, HEADWALL	
512	10100	58	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	74000	58	SQ. YD.	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
517	75601	33	FT.	DEEP BEAM BRIDGE RETROFIT RAILING, AS PER PLAN (EAST RAILING)	324
517	75601	33	FT.	DEEP BEAM BRIDGE RETROFIT RAILING, AS PER PLAN (WEST RAILING)	324
843	50000	58	SQ. FT.	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	

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P.322 421

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN LOADING

HS-20

FUTURE WEARING SURFACE (FWS) OF 0.060 KSF

DESIGN DATA

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE) CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (ABUTMENT)

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

DECK PROTECTIVE METHODS

EPOXY COATED REINFORCING STEEL 2¹/₂" CONCRETE COVER STEEL DRIP STRIP

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 AND 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

MECHANICAL CONNECTORS

AN APPROVED TYPE OF MECHANICAL CONNECTOR FOR REINFORCING BARS SHALL BE PROVIDED AS PER CMS 509.07. INSTALLATION OF CONNECTORS SHALL CONFORM WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES. MECHANICAL CONNECTORS SHALL BE CAPABLE OF DEVELOPING 125 PERCENT OF THE YIELD STRENGTH OF THE BARS CONNECTED AND SHALL BE EPOXY COATED. COATING FOR BOTH CONNECTORS AND REINFORCING BARS SHALL CONFORM TO THE SAME SPECIFICATIONS. COATINGS WHICH HAVE BEEN DAMAGED OR WHICH OTHERWISE DO NOT MEET THE SPECIFICATIONS WITH RESPECT TO COLOR. CONTINUITY. AND UNIFORMITY MAY BE REPAIRED AS DIRECTED BY THE ENGINEER OR THEY SHALL BE REPLACED WITH MATERIAL WHICH MEETS THE SPECIFICATIONS. ALL EXPENSES INVOLVED IN REPAIR OR REPLACEMENT SHALL BE BORNE BY THE CONTRACTOR. THE CONNECTORS SHALL CONFORM AND BE INCLUDED WITH ITEM 509, EPOXY COATED REINFORCING STEEL. FOR PAYMENT.

ITEM 509 - REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL. AS PER PLAN

REPLACE ALL EXISTING REINFORCING BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN PLACE. REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW REINFORCING STEEL OF THE SAME SIZE AND COATING AT NO COST TO THE DEPARTMENT.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED

THIS WORK CONSISTS OF THE REMOVAL OF PORTIONS OF THE EXISTING CONCRETE SLAB AND WINGWALLS AS SHOWN ON THE PLANS AND AS SPECIFIED BY THE FOLLOWING NOTES. THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE- PROPOSED STRUCTURE. THE USE OF EXPLOSIVES. HEADACHE BALLS AND/OR HOE RAM TYPE OF EQUIPMENT IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

REMOVAL METHODS:

THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER STRUCTURAL MEMBERS THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS BUT NOT TO EXCEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

PERFORM WORK CAREFULLY DURING SLAB REMOVAL TO AVOID DAMAGING STRUCTURAL MEMBERS THAT ARE TO REMAIN. REPAIR AREAS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PERFORMING THE REPAIR.

CUT LINE CONSTRUCTION JOINT PREPARATION: SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP INCLUDING THE FLOOR OF THE SLAB. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

MEASUREMENT & PAYMENT:

THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202 - PORTIONS OF STRUCTURE REMOVED, AS PER

ITEM SPECIAL - STEEL DRIP STRIP

INSTALLATION AND CONSTRUCTION OF THE STEEL DRIP STRIP SHALL BE IN ACCORDANCE WITH STANDARD DRAWING DS-1-92 (DATED: 7-18-03). ALL LABOR AND MATERIALS WILL BE PAID IN THE LENGTH MEASUREMENT (FT) FOR ITEM SPECIAL - STEEL DRIP STRIP.

ITEM 519 - PATCHING CONCRETE STRUCTURE

PATCH SPALLED AND DELAMINATED CONCRETE SURFACES PER CMS 519 ON BOTH ABUTMENTS. AND ANY SPALLED CONCRETE ON BRIDGE BEAM SEATS.

THE ESTIMATED QUANTITIES OF AREAS SHOWN ON PLANS THAT REQUIRE PATCHING ARE BASED ON FIELD MEASUREMENTS ABOVE THE EXISTING CONCRETE FOOTINGS. A 50% INCREASED QUANTITY IS ALSO INCLUDED IN THE ESTIMATES QUANTITIES FOR FUTURE DETERIORATION AND FOR EXISTING ABUTMENT BEAM SEATS.

PRIOR TO THE SURFACE CLEANING SPECIFIED IN CMS 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL. BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING ALL EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

ITEM 519, SPECIAL - PATCHING CONCRETE STRUCTURE (APPROACH SLAB PATCHING)

UPON COMPLETION OF APPROACH PAVEMENT REMOVAL AND EXPOSURE OF EXISTING APPROACH SLABS, CONTRACTOR SHALL INSPECT THEIR SURFACE AND DETERMINE AREAS TO BE PATCHED PER REQUIREMENTS OF ODOT CMS 519 AND AT THE APPROVAL OF THE ENGINEER.

THE ESTIMATED QUANTITIES FOR THIS WORK IS BASED ON AN APPROXIMATE ASSUMPTION OF POSSIBLE APPROACH SLAB DETERIORATION.

PRIOR TO THE SURFACE CLEANING SPECIFIED IN CMS 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL. BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING ALL EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

STANDARD ABBREVIATIONS LIST

BRG = BEARING C.J. = CONSTRUCTION JOINTCONST. = CONSTRUCTION C.P.P = CORRUGATED PLASTIC PIPE E.F. = EACH FACEEL. = ELEVATION EX. = EXISTING F.A. = FORWARD ABUTMENTF.F. = FAR FACE

GFRP = GLASS FIBER REINFORCED POLYMER HMWM = HIGH MOLECULAR WEIGHT

METHACRYLATE INT = INTEGRAL M.C. = MECHANICAL CONNECTOR

00110 25 CU. FT. POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM

M.E. = MATCH EXISTING

MGS = MIDWEST GUARDRAIL SYSTEM MIN. = MINIMUM

N.F. = NEAR FACE

PCB = PORTABLE CONCRETE BARRIER PEJF = PREFORMED EXPANSION JOINT FILLER

PROP. = PROPOSED R.A. = REAR ABUTMENT

RAD. = RADIUS RCP = ROCK CHANNEL PROTECTION

SHLD. = SHOULDER S.O. = SERIES OFSPA. = SPACES

STA. = STATIONU.N.O. = UNLESS NOTED OTHERWISE

				ESTIMATED QUANTITIES	
ITEM	ITEM EXT	TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
202	11200	LUMP		PORTIONS OF STRUCTURE REMOVED	
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503	11101	LUMP		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN	10
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509	10000	560	LB.	EPOXY COATED REINFORCING STEEL	
509	20001	50	LB.	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	327
511	33412	4	CU. YD.	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
511	45710	1	CU. YD.	CLASS QC1 CONCRETE, ABUTMENT	
512	10100	106	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	73500	111	SQ. YD.	TREATING OF CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
512	74000	106	SQ. YD.	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
517	70000	30	FT.	RAILING (TWIN STEEL TUBE)	
517	75600	30	FT.	DEEP BEAM BRIDGE RETROFIT RAILING	
SPECIAL	51822300	25	FT.	STEEL DRIP STRIP	327 & 330
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519	11100	251	SQ. FT.	PATCHING CONCRETE STRUCTURE (ABUTMENT)	
SPECIAL	51912510	21	SQ. YD.	PATCHING CONCRETE BRIDGE DECK (APPROACH SLAB PATCHING)	327 & 329
843	50000	122	SQ. FT.	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR (UNDER DECK)	
844	10000	171	SQ. FT.	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION (ABUTMENT)	
0.40					

2902044 ESIGN AGENCY OHM ESIGNER CHECKER JLU BLS REVIEWER FRR 12/08/22 ROJECT ID 112038

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P.327 421