## INDEX OF SHEETS:

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TITLE SHEET	1	PLAN AND PROFILE - MIAMI ST.	581	WATER WORK PLANS	993-1036
INDEX OF SHEETS AND DESIGN DESIGNATION	2-3	PLAN AND PROFILE - GRANT ST.	<i>582-584</i>	TRAFFIC CONTROL PLANS	
SCHEMATIC PLAN	4-8	CROSS SECTIONS - GRANT ST.	585-589	GENERAL NOTES	1037-1041
CURVE DATA AND PROJECT CONTROL	9-10	PLAN AND PROFILE - WOLF LEDGES PKWY.	590-592	GENERAL SUMMARY	1042-1043
TYPICAL SECTIONS	11-41	CROSS SECTIONS - WOLF LEDGES PKWY.	593-596	EXISTING SIGNING PLANS	1044-1064
GENERAL NOTES	42-63	PLAN AND PROFILE - RUSSELL AVE./COBURN ST.	597-598	EXISTING SIGNING SUBSUMMARY	1065-1074
MAINTENANCE OF TRAFFIC		CROSS SECTIONS - RUSSELL AVE.	599-602	PAVEMENT MARKING PLANS	1075-1087
GENERAL NOTES	64-71	CROSS SECTIONS - COBURN ST.	603	PAVEMENT MARKING SUBSUMMARY	1088-1096
PLAN INSERT SHEET _209960	72	PLAN AND PROFILE - E. THORNTON ST.	604-608	SIGNING PLANS	1097-1136 *
SUBSUMMARIES	73-87	CROSS SECTIONS - E. THORNTON ST.	609-615	SIGNAL GENERAL SUMMARY	1137-1138
RAMP CLOSURES/DETOURS	88-100,100A,101-102	PLAN AND PROFILE - S. BROADWAY ST.	616-621	SIGNAL PLANS	1139-1181
PHASE 1	113-217	CROSS SECTIONS - S. BROADWAY ST.	622-634	LIGHTING PLANS	1182-1224
PHASE 2	218-238,238A	PLAN AND PROFILE - W. SOUTH ST.	635-637	LANDSCAPING PLANS	1225-1237
PHASE 3	239-270	CROSS SECTIONS - W. SOUTH ST.	638-642	STRUCTURES OVER 20'	
PHASE 4	271-291	PLAN AND PROFILE - OLD MAIN ST.	643	BRIDGE NO. SUM-76-1034 L/R	1238-1299
TEMPORARY SIGNAL DETAILS	292-295	CROSS SECTIONS - OLD MAIN ST.	644-645	BRIDGE NO. SUM-76-1041 L/R	1300-1361
GENERAL SUMMARY	296-303	PLAN AND PROFILE - ROUNDABOUT	646-647	BRIDGE NO. SUM-76-1043	1362-1389
SUBSUMMARIES AND CALCULATIONS	304-369	CROSS SECTIONS - ROUNDABOUT	648-649	BRIDGE NO. SUM-76-1044	1390-1421
PROJECT SITE PLAN	370-373	PROFILE - BACHTEL AVE.	650	BRIDGE NO. SUM-76-1051	1422-1464
CULVERT FILE NUMBERS	374	CROSS SECTIONS - BACHTEL AVE.	651	BRIDGE NO. SUM-76-1075	1465-1504
PLAN AND PROFILE - I.R. 76	375-383	PLAN AND PROFILE - YALE ST.	652	BRIDGE NO. SUM-76-1085	1505-1541
CROSS SECTIONS - I.R. 76	384-415	CROSS SECTIONS - YALE ST.	653-654	BRIDGE NO. SUM-SOUTH-0036	1542-1583
PLAN AND PROFILE - RAMP W-5	416-421	PLAN AND PROFILE - E. MILLER AVE.	655	BRIDGE NO. SUM-BARGE-0116	1584-1611
CROSS SECTIONS - RAMP W-5	422-431	CROSS SECTIONS - E. MILLER AVE.	656-658	WALLS	
PLAN AND PROFILE - RAMP W-5A	432-434	PLAN AND PROFILE - E. BARTGES ST.	659	WALL SCHEMATIC AND GENERAL NOTES	1612-1618
CROSS SECTIONS - RAMP W-5A	435-438	CROSS SECTION LAYOUT	660	WALL ESTIMATED QUANTITIES	1619-1620
PLAN AND PROFILE - RAMP W-6	439-444	SUPERELEVATION TABLES	661-667	WALL 1	1621-1625
CROSS SECTIONS - RAMP W-6	445-456	INTERCHANGE DETAILS	668-669	WALL 2	1626-1628
PLAN AND PROFILE - RAMP W-7	457-459	TERMINAL DETAILS	670-682	WALL 3	1629-1633
CROSS SECTIONS - RAMP W-7	460-466	INTERSECTION DETAILS	683-698	WALL 4	1634-1638
PLAN AND PROFILE - RAMP W-8	467-471	DRIVE DETAILS	699-725	WALL 5	1639-1646
CROSS SECTIONS - RAMP W-8	472-477	MISCELLANEOUS DETAILS		WALL 6	1647-1654
PLAN AND PROFILE - RAMP W-9	478-482	REMOVAL PLANS	726-733,733A,734-787	WALL 7	1655-1669
CROSS SECTIONS - RAMP W-9	483-489	EXISTING S. MAIN ST. PLANS	788-792	WALL 8	1670-1673
PLAN AND PROFILE - S. MAIN ST.	490-504	GRADING DETAILS	793-794	WALL 9	1674-1684
CROSS SECTIONS - S. MAIN ST.	505-533	PAVEMENT JOINT DETAILS	795-804	WALL 10	1685-1696
PLAN AND PROFILE - S. HIGH ST.	534-536	NOISE BARRIERS	805-839	WALL 11	1697-1698
CROSS SECTIONS - S. HIGH ST.	537-542	ROUNDABOUT AND SPLITTER ISLAND DETAILS	840-842	FENCE PLAN	1699-1720
PLAN AND PROFILE - GARAGE DRIVE	543-547	ROADWAY MISCELLANEOUS AS PER PLAN	843-851	RIGHT OF WAY PLANS	1721-1822
CROSS SECTIONS - GARAGE DRIVE	548-552	DRAINAGE PLAN AND PROFILES	852-955	SOIL PROFILE SHEETS	
PLAN AND PROFILE - MAIN-BROADWAY CONNECTOR	553-556	STORM AND SANITARY SEWER PROFILES	956-968		
CROSS SECTIONS - MAIN-BROADWAY CONNECTOR	557-564	CULVERT DETAILS	969		
PLAN AND PROFILE - E. SOUTH ST.	565-570	DRAINAGE AND SANITARY DETAILS	970-977		
CROSS SECTIONS - E. SOUTH ST.	571-580	SANITARY SEWER PLAN AND PROFILES	978-992	* SHEET 1128 NOT USED	
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1313	ИK	4/29/10	REMOVAL OF SHEET 1128	
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## SANITARY SEWERS

ALL SEWER WORK ITEMS AND CONSTRUCTION SHALL CONFORM TO ODOT ITEM 611 AND THE CITY OF AKRON (COA) CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS), ITEMS CONTAINED WITHIN CITY OF AKRON SECTION 550, PIPE CULVERTS, SEWERS AND DRAINS (AND ALL APPLICABLE SUB-SECTIONS). WHERE THERE IS CONTRADICTION, THE COA SPEC. WILL TAKE PRECEDENCE. THE CONTRACTOR SHALL HAVE A COPY OF THE CURRENT EDITION OF THE CITY OF AKRON CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS) ON SITE FOR REFERENCE AT ALL TIMES DURING CONSTRUCTION. IF THE CONTRACTOR DOES NOT HAVE A COPY OF THE CURRENT EDITION OF THE CITY OF AKRON CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS), THE CONTRACTOR SHALL PURCHASE A COPY OF THE CITY OF AKRON CMS. THE PURCHASE OF THE CITY OF AKRON CMS. SHALL BE CONSIDERED INCIDENTAL AND BE INCLUDED IN THE CONTRACT PRICE FOR ODOT ITEM 611 - CONDUIT, MISC.: "\_" INCH SANITARY SEWER, 707.20, CLASS "NE" BEDDING (L.F.). SECTIONS OF THE COA SPEC. HAVE BEEN INCLUDED IN THE GENERAL NOTES WITH THE FOLLOWING MODIFICATIONS:

- 1. BASIS OF PAYMENT FOR CITY OF AKRON ITEM 557 -SANITARY SEWERS WILL BE ODOT ITEM 611 - CONDUIT, MISC.: \_\_ INCH SANITARY SEWER, \_\_\_\_\_, CLASS "\_\_" BEDDING (FT.).
- 2. BASIS OF PAYMENT FOR CITY OF AKRON ITEM 560 -LATERALS AND STACKS WILL BE ODOT ITEM 611 -CONDUIT, MISC.: \_\_ INCH \_\_\_\_\_ LATERAL, \_\_\_\_\_
- 3. CITY OF AKRON ITEM 561 SPECIAL FITTINGS WHICH INCLUDES Y-BRANCHES, T-BRANCHES, STUBS, SLANTS, BENDS, FLAP GATES, FRAMES AND COVERS, SPECIAL ADAPTERS OR COUPLERS AND ALL ITEMS NOT SPECIFICALLY CALLED OUT IN THE PLANS WILL BE CONSIDERED INCIDENTAL TO AND INCLUDED IN THE CONTRACT PRICES FOR ODOT ITEM 611 CONDUIT, MISC.: "\_" INCH SANITARY SEWER, 707.20, CLASS "NR" BEDDING (FT.) AND ODOT ITEM 611 CONDUIT, MISC.: "\_" INCH SANITARY SEWER, CLASS "B" BEDDING (FT.).

ITEM 611 - MANHOLE, NO. 2, SANITARY, AS PER PLAN
ITEM 611 - MANHOLE, NO. 3, SANITARY, AS PER PLAN
ITEM 611 - MANHOLE, NO. 5, SANITARY, AS PER PLAN
ITEM 611 - MANHOLE ADJUSTED TO GRADE, SANITARY, AS PER
PLAN
ITEM 611 - MANHOLE RECONSTRUCTED TO GRADE, SANITARY, AS
PER PLAN

ALL SANITARY SEWER MANHOLE CONSTRUCTION, ADJUSTMENT AND RECONSTRUCTION SHALL CONFORM TO ODOT ITEM 611, ODOT STANDARD CONSTRUCTION DRAWINGS MH-1.2, MH-1.3 AND MH-3.1 (DROP PIPE DETAILS), AND THE CITY OF AKRON (COA) CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS), ITEMS CONTAINED WITHIN SECTION 562 MANHOLES (AND ALL APPLICABLE SUB-SECTIONS). WHERE THERE IS A CONTRADICTION, THE COA SPECIFICATIONS WILL TAKE PRECENDENCE.

SECTIONS OF THE COA SPECIFICATION HAVE BEEN INCLUDED IN THE GENERAL NOTES WITH THE FOLLOWING MODIFICATIONS:

- I. BY THIS NOTE, ALL SANITARY OR COMBINED SEWER MANHOLES SHALL BE EPOXY COATED.
- 2. BASIS OF PAYMENT FOR NEW MANHOLES WILL BE ODOT ITEM 6II - MANHOLE, NO. 2 AS PER PLAN SANITARY) (EACH), ITEM 6II - MANHOLE, NO. 3, AS PER PLAN SANITARY) (EACH) OR ITEM 6II - MANHOLE, NO. 5, AS PER PLAN (SANITARY) (EACH).
- 3. BASIS OF PAYMENT FOR MANHOLES ADJUSTED TO GRADE WILL BE ODOT ITEM 611 MANHOLE ADJUSTED TO GRADE, AS PER PLAN (SANITARY) (EACH).
- 4. BASIS OF PAYMENT FOR MANHOLES RECONSTRUCTED TO GRADE WILL BE ODOT ITEM 611 MANHOLE RECONSTRUCTED TO GRADE, AS PER PLAN (SANITARY) (EACH).

## ITEM SPECIAL - BACKFLOW PREVENTER, MISC .: FLAP GATE \_\_\*

FLAP GATE SHALL BE CONSTRUCTED IN CONFORMANCE WITH COA SECTION 561 AND CITY OF AKRON STANDARD CONSTRUCTION DRAWING ON SHEET 977

## ITEM 611 - DROP CONNECTION

DROP CONNECTION SHALL BE CONSTRUCTED AT EXISTING MANHOLES THAT EXCEED 7 FEET BETWEEN FLOWLINE AND FLOWLINE IN CONFORMANCE WITH COA SECTION 565.

611, MANHOLE MISC.: DROP CONNECTION 4 EACH.

## ITEM 611 - CONDUIT, MISC: \_\_INCH SANITARY SEWER, \_\_\_\_, CLASS "\_\_" BEDDING

ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS) ITEM 611 AND THE CITY OF AKRON (COA) CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS), ITEMS CONTAINED WITHIN CITY OF AKRON SECTION 557 SANITARY SEWERS (AND ALL APPLICABLE SUB-SECTIONS) WITH THE FOLLOWING ADDITION; ALL BEDDING AND BACKFILL SHALL BE #6, #67 OR #68 CRUSHED AGGREGATE AND SHALL MEET ASTM C 12 FOR RIGID PIPE AND ASTM D 2321 FOR NON-RIGID PIPE. WHERE THERE IS A CONTRADICTION, THE COA SPECIFICATIONS WILL TAKE PRECENDENCE.

## LOCATION OF PROPOSED SANITARY LATERALS

THE LOCATION OF PROPOSED SANITARY LATERALS SHALL BE FIELD ADJUSTED TO MATCH THE ACTUAL LOCATION OF EXISTING WYE BRANCHES. EXISTING WYE BRANCHES SHOWN IN THE PLANS ARE FROM UNDERGROUND RECORDS AND SHALL BE FIELD—VERIFIED PRIOR TO CONSTRUCTING THE LATERAL CROSSING. COST OF THIS WORK IS INCLUDED IN THE RESPECTIVE SEWER PIPE ITEM. QUANTITIES FOR THIS WORK SHALL BE FROM THOSE INCLUDED IN "UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS" NOTED BELOW.

## UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS

FURNISH A CONTINUANCE FOR ALL UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS SUCH AS SANITARY, WASTEWATER, CURTAIN/ GRADIENT DRAINS, AND FOUNDATION FLOOR DRAINS DISTURBED BY THE WORK. FURNISH AN UNOBSTRUCTED CONTINUANCE OF THE UNRECORDED ACTIVE SANITARY SEWER CONNECTIONS TO THE SATISFACTION OF THE ENGINEER. ALL SUCH CONTINUANCE REQUIRES A RIGHT OF WAY USE PERMIT. ALL SANITARY AND SANITARY WASTEWATER CONTINUANCE MAY ALSO REQUIRE A NPDES PERMIT FROM THE OHIO ENVIRONMENTAL PROTECTION AGENCY. REPORT ALL CONTINUANCE TO THE LOCAL HEALTH DEPARTMENT.

ALL SANITARY SEWER CONNECTIONS SHALL CONFORM TO ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS) ITEM 611 AND THE CITY OF AKRON (COA) CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS), ITEMS CONTAINED WITHIN CITY OF AKRON SECTION 560 SANITARY SEWERS (AND ALL APPLICABLE SUB-SECTIONS) WITH THE FOLLOWING ADDITION; ALL BEDDING AND BACKFILL SHALL BE #6, #67 OR #68 CRUSHED AGGREGATE AND SHALL MEET ASTM C 12 FOR RIGID PIPE AND ASTM D 2321 FOR NON-RIGID PIPE. WHERE THERE IS A CONTRADICTION, THE COA SPECIFICATIONS WILL TAKE PRECENDENCE.

THE FOLLOWING ESTIMATED OUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR THE WORK NOTED ABOVE:

611, CONDUIT	MISC.: 6	INCH HOUSE LATERAL	<u>800 FT.</u>
611, CONDUIT	MISC.: 8	INCH HOUSE LATERAL	700 FT.

611, CONDUIT MISC.: 10 INCH HOUSE LATERAL 400 FT.

100 FT.

611, CONDUIT MISC.: 12 INCH HOUSE LATERAL

## 550 - PIPE CULVERT, SEWERS, AND DRAINS

## CITY OF AKRON ITEM 551 - GENERAL

CITY OF AKRON 551.01 DESCRIPTION
CITY OF AKRON 551.02 MATERIALS

CITY OF AKRON 551.03 EXCAVATION CITY OF AKRON 551.04 PROTECTION OF EXCAVATION

CITY OF AKRON 551.05(A) BEDDING FOR RIGID PIPE CITY OF AKRON 551.05(B) BEDDING FOR NON-RIGID PIPE

CITY OF AKRON 551.05(B) BEDDING FOR NON-RIGID F

CITY OF AKRON 551.07 JOINING PIPE CITY OF AKRON 551.08 SHOP STRUTTING

CITY OF AKRON 551.09 BACKFILLING CITY OF AKRON 551.10 RESTORATION OF STREETS AND CLEANING

CITY OF AKRON 551.11 RECONSTRUCTED PIPE CITY OF AKRON 551.12 LOW PRESSURE AIR TEST, DEFLECTION TEST, AND T.V. INSPECTION CITY OF AKRON 551.13 METHOD OF MEASUREMENT

# KMK 4/28/16 SANITARY NOTE REVISION - REMOVE WYE BRACH REV. TO BE SHOWN IN PLANS REV. BY DATE DESCRIPTION

DATE COMPLETED

### CITY OF AKRON 551.01 DESCRIPTION

THIS WORK SHALL CONSIST OF THE CONSTRUCTION OR RECONSTRUCTION OF PIPE CULVERTS, SEWERS AND DRAINS (REFERRED TO BELOW AS TYPE A, TYPE B, TYPE C, AND TYPE D PIPE), COMPLETE IN PLACE AS SPECIFIED, USING PIPE OF SIZES AND TYPES CALLED FOR BY THE PLANS, PROPOSAL, OR THESE SPECIFICATIONS, AND IN CONFORMITY WITH LINES AND GRADES SHOWN ON THE PLANS AND PROFILES, OR AS ESTABLISHED BY THE ENGINEER. THIS WORK SHALL INCLUDE ALL EXCAVATING AND THE REMOVAL OF ALL MATERIALS NECESSARY FOR PLACING THE PIPE, MANHOLES, INLETS AND OTHER APPURTENANCES; MAINTAINING FLOW IN EXISTING CULVERTS, SEWERS OR DRAINS; FURNISHING, MIXING, PLACING OR REMOVING MATERIALS, INCLUDING LINING MATERIALS; FURNISHING AND PLACING BEDDING AND BACKFILLING MATERIALS AS SPECIFIED; FURNISHING, SETTING AND REMOVING OF FORMS, POINTING OR PLASTERING OF SURFACES; JOINING TO EXISTING AND PROPOSED APPURTENANCES AS REQUIRED; PERFORMING LOW PRESSURE AIR TEST AND DEFLECTION TEST AS SPECIFIED; PROTECTING EXISTING UTILITIES, STRUCTURES OR OTHER IMPROVEMENTS IN THE VICINITY OF THE PROPOSED PIPE CULVERTS, SEWERS AND DRAINS; AND CLEANING UP AND RESTORING DISTURBED FACILITIES AND STREETS AND OTHER SURFACES.

#### CITY OF AKRON 551.02 MATERIALS

PIPE SHALL BE OF THE SIZE AND KIND SPECIFIED IN THE PROPOSAL AND MEET THE REQUIREMENTS OF PERTINENT CITY OF AKRON SECTIONS OF 706 AND 707. WHEN THE KIND OF PIPE IS NOT SPECIFICALLY ITEMIZED, ANY OF THE KINDS LISTED HEREIN UNDER THE SPECIFIED PIPE TYPE MAY BE USED. HIGHER STRENGTH CONCRETE OR PLASTIC PIPE OF THE SAME TYPE MAY BE FURNISHED WHERE LOWER STRENGTH PIPE IS SPECIFIED. A THICKER METAL PIPE OF THE SAME CORRUGATION PROFILE AND TYPE MAY BE FURNISHED WHERE A LESSER THICKNESS IS PERMITTED OR SPECIFIED.

OTHER MATERIALS SHALL BE AS FOLLOWS:
CONCRETECITY OF AKRON 499 AND 511
REINFORCING STEELCITY OF AKRON 509.02
SPECIAL FITTINGSCITY OF AKRON 561
BRICK MASONRYCITY OF AKRON 602
SLAG AND LIMESTONE BEDDINGCITY OF AKRON 703.02
CRUSHED GRAVEL FOR BEDDINGCITY OF AKRON 703.04
MATERIAL FOR BACKFILLCITY OF AKRON 604.02
CEMENT FOR MORTARCITY OF AKRON 701.07
SAND FOR MORTARCITY OF AKRON 703.03

UNLESS OTHERWISE SPECIFIED, ALL REINFORCED CONCRETE CIRCULAR PIPE SHALL COMPLY WITH THE REQUIREMENTS OF CITY OF AKRON 706.02 AND 706.11 AND SHALL COMPLY WITH THE STANDARD SPECIFICATIONS OF ASTM C76 CLASS IV, WALL B OR WALL C, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

ALL REINFORCED CONCRETE PIPE SHALL BE MANUFACTURED USING TYPE II CEMENT. ONLY VITRIFIED CLAY PIPE AND REINFORCED CONCRETE PIPE SHALL BE CONSIDERED AS RIGID PIPE MATERIALS. ALL OTHER PIPE MATERIALS LISTED HEREIN SHALL BE CONSIDERED NON-RIGID PIPE MATERIALS.

TYPE B PIPE - STORM SEWERS NOT UNDER PAVEMENT VITRIFIED CLAY PIPE
706.08 WITH 706.12 REINFORCED CONCRETE PIPE, CLASS IVCITY OF AKRON
706.02 WITH 706.11 REINFORCED CONCRETE ELLIPTICAL PIPECITY OF AKRON
706.04 WITH 706.15 PVC COMPOSITE SEWER PIPECITY OF AKRON 707.18
PVC GRAVITY SEWER PIPE
WATERTIGHT SMOOTH LINED FIFE
TYPE C PIPE - SANITARY / COMBINED SEWERS
THE CITIE SAMITANT COMBINED SENENS

VITRIFIED CLAY PIPECITY OF AKRON
706.08 WITH 706.12
REINFORCED CONCRETE PIPE,
CLASS IV (30" DIAMETER AND OVER)CITY OF AKRON
706.03 WITH 706.11
REINFORCED CONCRETE ELLIPTICAL PIPECITY OF AKRON
706.04 WITH 706.15
PVC COMPOSITE PIPECITY OF AKRON 707.18
PVC GRAVITY SEWER PIPECITY OF AKRON 707.20
GLASS FIBER REINFORCED PIPECITY OF AKRON 707.25

## CITY OF AKRON 551.03 EXCAVATION

EXCAVATION SHALL INCLUDE THE REMOVAL AND DISPOSAL OF ALL MATERIAL, INCLUDING CONCRETE, MASONRY AND ROCK WHICH MAY BE REMOVED WITH COMMONLY USED EXCAVATION EQUIPMENT NECESSARY FOR THE CONSTRUCTION AND COMPLETION OF WORK UNDER THIS ITEM. EXCAVATION OPERATIONS SHALL BE CONDUCTED FROM THE SURFACE, EXCEPT WHERE TUNNELING IS REQUIRED ON THE PLANS OR PERMITTED BY THE ENGINEER. TUNNEL OPENINGS SHALL BE MADE SUBJECT TO THE APPROVAL OF THE ENGINEER. EXCEPT IN ROCK, WATER-BEARING EARTH, OR WHERE A GRANULAR OR CONCRETE BASE IS TO BE USED, MECHANICAL EXCAVATION OF TRENCHES SHALL BE STOPPED ABOVE THE FINAL INVERT ELEVATION SO THAT THE PIPE MAY BE LAID ON UNDISTURBED SOIL. IF OVERDIGGING OCCURS, ALL LOOSENED EARTH SHALL BE REMOVED AND THE TRENCH BOTTOM BROUGHT BACK TO GRADE, AT THE CONTRACTOR'S EXPENSE, WITH FOR ANULAR MATERIAL WHICH MAY BE FORTIFIED WITH CEMENT, IF SO DIRECTED BY THE ENGINEER. WIDTH OF TRENCHES, EXCEPT FOR PIPE UNDERDRAINS, IN WHICH PIPE IS TO BE INSTALLED SHALL BE SUCH AS TO PROVIDE ADEQUATE SPACE FOR WORKMEN TO PLACE AND JOINT THE PIPE PROPERLY, BUT IN EVERY CASE THE TRENCH SHALL BE KEPT TO A MINIMUM WIDTH. FOR ALL RIGID PIPE INSTALLATIONS, THE WIDTH OF THE TRENCH AT THE TOP OF THE PIPE SHALL NOT EXCEPTED THE OUTSIDE PIPE DIAMETER, INCLUDING BELLS, PLUS THE CLEAR WIDTH ON EACH SIDE OF THE PIPE AS LISTED IN THE FOLLOWING TABLE:

PIPE SIZE	MAXIMUM CLEAR WIDTH
6 INCH TO 24 INCH	12 INCHES
27 INCH TO 54 INCH	15 INCHES
60 INCH AND OVER	24 INCHES

FOR ALL NON-RIGID PIPE INSTALLATIONS, THE MINIMUM TRENCH WIDTH SHALL BE PER THE PIPE MANUFACTURER'S RECOMMENDATIONS, BUT AT NO TIME SHALL THE WIDTH BE LESS THAN THAT SPECIFIED IN ASTM D2321.

THE LENGTH OF TRENCH OR TUNNEL OPEN AT ANY ONE TIME SHALL CONFORM TO THE LIMITS APPROVED BY THE ENGINEER. IN GENERAL, NOT MORE THAN 100 FEET OF TRENCH SHALL BE OPENED IN ADVANCE OF THE COMPLETED WORK.

EXCAVATION SHALL BE OF SUFFICIENT DEPTH AND WIDTH TO PERMIT THE INSTALLATION OF THE WORK TO THE LINES, GRADES, AND DIMENSIONS CALLED FOR BY THE PLANS, AND FOR ALL SHEETING, PUMPING, AND DRAINING. IN GENERAL, THE SIDES OF THE TRENCH OR OTHER EXCAVATION SHALL BE VERTICAL AND THE WALLS PROPERLY SUPPORTED WITH SHEETING, BRACING OR OTHER APPROVED METHOD WHERE NECESSARY FOR THE PROTECTION OF WORKMEN, ADJACENT PROPERTY, STRUCTURES, UTILITIES OR EXISTING IMPROVEMENTS. THE WIDTH AT THE TOP OF THE EXCAVATION SHALL BE THE MINIMUM WIDTH THAT WILL PERMIT THE PROPER CONSTRUCTION OF THE SEWER OR OTHER STRUCTURES, OR THE PLACING OF SHEETING. SHOULD TWO SETS OF WOOD SHEETING BE USED, THE TOP WIDTH SHALL EXCEED THE BOTTOM WIDTH ONLY BY THE THICKNESS OF THE NECESSARY RANGERS AND PLANKING PLUS ONE INCH ON EACH SIDE FOR ADDITIONAL CLEARANCE OF LOWER SHEETING PAST UPPER RANGERS.

TRENCHES IN ROCK SHALL BE EXCAVATED TO A DEPTH NOT LESS THAN 6 INCHES BELOW THE BOTTOM OF THE PIPE BY ANY ACCEPTABLE METHOD, INCLUDING USE OF EXPLOSIVES, WITH THE APPROVAL OF THE ENGINEER. WHERE BLASTING IS PERMITTED, IT SHALL BE DONE BY PERSONS EXPERIENCED IN SUCH WORK AND IN ACCORDANCE WITH CITY OF AKRON 107.09. ALL BLASTS SHALL BE WELL COVERED, AND PROVISIONS MADE TO PROTECT PIPES, CONDUITS, SEWERS, STRUCTURES, PERSONS, AND ANY PROPERTY ADJACENT TO THE SITE OF THE WORK. NO BLASTING SHALL BE PERMITTED WITHIN TWENTY-FIVE FEET OF THE COMPLETED PIPE CULVERT, SEWER OR DRAIN.

THE CONTRACTOR SHALL PROVIDE PROPER AND SATISFACTORY MEANS AND DEVICES FOR THE REMOVAL OF ALL GROUNDWATER ENTERING THE TRENCH EXCAVATION AND REMOVE SUCH GROUNDWATER AS FAST AS IT MAY COLLECT IN SUCH MATTER AS TO NOT INTERFERE WITH THE PROSECUTION OF THE WORK. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK. THE GROUNDWATER LEVEL MUST BE LOWERED ENOUGH TO ALLOW A WORKABLE TRENCH. DEWATERING SHALL BE CONTINUED UNTIL BACKFILLING IS COMPLETED IN ANY MANHOLE-TO-MANHOLE SPAN. COST OF DEWATERING SHALL BE INCLUDED IN THE PRICE BID FOR THE ITEM REQUIRING THE DEWATERING.

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DURING THE PLACEMENT OF THE PORTABLE BARRIER, TRAFFIC WILL BE PROHIBITED FROM OCCUPYING THE TRAVEL LANE ADJACENT TO THE BARRIER. THE BARRIER WILL BE PLACED AT NIGHT PER THE WORK HOUR RESTRICTION NOTE AND IN ACCORDANCE WITH THE PERMITTED LANE CLOSURE CHART. THE CLOSURE OF THE ADJACENT LANE WILL BE PER THE STANDARD DRAWING MT-95.30. THE CONTRACTOR WILL SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL SEVEN (7) DAYS IN ADVANCE OF THE PLANNED LANE CLOSURE. WORK WILL NOT BEGIN UNTIL APPROVAL OF THE PLANS HAS BEEN GRANTED. ALL COSTS INVOLVED IN PLACING THE PORTABLE CONCRETE BARRIER WILL BE INCLUDED IN THE CONTRACT PRICE BID FOR ITEM 622 PORTABLE CONCRETE BARRIER

## 614 WORK ZONE PAVEMENT MARKINGS, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF 614.11, ALL CLASS I EDGE LINES, LANE LINES, CENTER LINES AND DOTTED LINES SHALL BE 6 INCHES WIDE AND CHANNELIZING MARKINGS SHALL BE 8 INCHES WIDE. THE APPLICATION RATES FOR THE 6 INCH LINES SHALL BE 1.5 TIMES THE RATES SPECIFIED FOR 4 INCH LINES IN TABLE 614.11-1.

### ITS MESSAGE BOARDS (I-76 / I-77)

THE EXISTING ITS MESSAGE BOARDS IN THE VICINITY OF THE PROJECT WILL BE UTILIZED TO PROVIDE SUPPLEMENTAL INFORMATION TO THE TRAVELING PUBLIC. THE CONTRACTOR WILL NOTIFY THE PROJECT ENGINEER ONE [1] WEEK IN ADVANCE OF ANY PHASE CHANGE. THE PROJECT ENGINEER WILL COORDINATE WITH EITHER LISA BOSE AT 330-786-4817 OR BRENT KOVACS AT 330-786-2208 TO GET THE ITS MESSAGE BOARDS ADJUSTED.

#### ITEM 614 - BUSINESS ENTRANCE (M4-H15) SIGN, AS PER PLAN (LOCAL)

THE BUSINESS ENTRANCE (M4-HI5) SIGN SHOULD BE PROVIDED AT EACH TEMPORARILY RELOCATED COMMERCIAL DRIVEWAY FOR WHICH THE RELOCATION IS NOT OBVIOUS TO THE MOTORIST. THE PROJECT ENGINEER SHALL DETERMINE WHETHER OR NOT THE DRIVEWAY RELOCATION IS, OR IS NOT, OBVIOUS AND WHETHER OR NOT A SIGN SHOULD BE PROVIDED. ONLY ONE SIGN PER BUSINESS SHALL BE PERMITTED. THE SIGN SHALL BE 36 INCH X 48 INCH IN SIZE WITH TYPE G OR TYPE H ORANGE RETROREFLECTIVE SHEETING. THE SIGN LEGEND SHALL BE PLACED ON BOTH SIDES OF THE SIGN (BACK TO BACK). THE SIGN SHALL HAVE THE STANDARD M4-HI5 LEGEND WITH THE WORD "BUSINESS" ON THE TOP LINE, EXCEPT UNDER UNUSUAL CIRCUMSTANCES WHERE IT MAY NOT BE INTUITIVE THAT A DRIVEWAY SERVES A SPECIFIC BUSINESS. IN SUCH UNUSUAL CASES, THE ACTUAL BUSINESS NAME MAY BE SUBSTITUTED FOR THE WORD "BUSINESS".

THE SIGN SHALL BE MOUNTED ON TWO NO. 3 POSTS OR ON TEMPORARY POSTS IN ACCORDANCE WITH SCD MT-105.10 AND IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION. THE SIGN SHALL BE CLEARLY VISIBLE AND SHALL CLEARLY IDENTIFY THE LO-CATION OF THE DRIVEWAY. THE SIGN SHOULD BE POSITIONED AT 90 DEGREES TO THE DIRECTION(S) OF TRAFFIC. THE SIGN MAY NEED TO BE MOVED FOR EACH PHASE OF THE MAIN-TENANCE OF TRAFFIC OPERATIONS.

PAYMENT FOR ALL COSTS ASSOCIATED WITH MANUFACTURING, MOUNTING, RELOCATING, AND REMOVING THE SIGN, INCLUDING ALL LABOR, MATERIALS AND EQUIPMENT SHALL BE INCLUDED IN THE CONTRACT PRICE PER EACH FOR ITEM 614-BUSINESS

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS ITEM.

ITEM 614 BUSINESS ENTRANCE SIGN, AS PER PLAN 20 EACH

## ITEM 614 - COVERING OF SIGNS (I-76 / I-77)

THE CONTRACTOR WILL COVER ANY EXISTING AND/OR PROPOSED SIGN INSTALLATION WHICH IS IN CONFLICT WITH THE MAINTENANCE OF TRAFFIC PLANS. THE SIGNS SHALL BE COVERED IN SUCH A MANNER AS TO AVOID DAMAGING THE WHEN THE COVER IS REMOVED. THE COVER SHALL BE TOTALLY OPAQUE AND COVERS THE ENTIRE SIGN FACE. THE USE OF ADHESIVE TAPE APPLIED DIRECTLY TO THE SIGN FACE IS STRICTLY PROHIBITED. THE CONTRACTOR WILL PROVIDE ALL OF THE "CLOSED" PLAQUES NECESSARY. THE OVERLAY MAY BE RIVETED TO THE SIGN. THE CONTRACTOR SHALL PROVIDE ALL OF THE PLAQUES, SIGNS, AND SIGN PANELS NECESSARY.

UNLESS SEPARATELY ITEMIZED IN THE PLAN, THE LUMP SUM PRICE BID FOR ITEM 614-MAINTAINING TRAFFIC SHALL INCLUDE ALL COSTS NECESSARY TO COVER AND/OR MODIFY CONFLICTING SIGN INSTALLATIONS.

## ITEM 625 - LIGHT POLE MISC .: REMOVE, SALVAGE AND RE-ERECT MEDIAN LIGHT POLE WITH RECONSTRUCTION OF MEDIAN FOUNDATION

CONTRACTOR SHALL REMOVE AND SALVAGE THE EXISTING MEDIAN LIGHT POLE AND LUMINAIRE. THE SALVAGED ITEMS SHALL BE STORED BY THE CONTRACTOR FOR THE DURATION OF THE NEED FOR THE CROSSOVER THROUGH THE MEDIAN. THE FOUNDATION SHALL BE REMOVED TO A DEPTH OF 12" BELOW PROPOSED GUTTER AND PER REQUIREMENTS OF ODOT CMS 202. THE CONTRACTOR SHALL CONSTRUCT A NEW 24" X 10' DEEP FOUNDATION, INCLUDING NEW PULL BOX, ANCHOR BOLTS AND MOUNTING PLATE, ADJACENT TO THE EXISTING FOUNDATION TO REMAIN BELOW GRADE. THE FOUNDATION AND PULL BOX SHALL BE CONSTRUCTED PER SCD HL-20.13. THE SALVAGED POLE AND LUMINAIRE SHALL BE RE-INSTALLED ON THE NEW FOUNDATION AND CONNECTED TO THE EXISTING LIGHTING CIRCUITRY. ALL MATERIALS AND LABOR REQUIRED FOR THE COMPLETE INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH OF ITEM 625 LIGHT POLE MISC.: REMOVE, SALVAGE AND RE-ERECT MEDIAN LIGHT POLE WITH RECONSTRUCTION OF MEDIAN FOUNDATION. CONTRACTOR SHALL MAINTAIN EXISTING LIGHTING CIRCUIT, UNTIL NEW CIRCUIT IS INSTALLED.

#### CONSTRUCTION ACCESS POINTS

THE CONTRACTOR SHALL USE THE DESIGNED CONSTRUCTION ACCESS POINTS SHOWN ON SHEETS 196, 201, 206, AND 211, FOR PHASE I, STAGE I AND STAGE 2 OF BOTH WOLF LEDGES AND GRANT STREET BRIDGE CONSTRUCTION. FOR ACCESS INTO THE CONSTRUCTION ZONE DURING THESE PHASES, THREE LANES SHALL BE MAINTAINED MONDAY - FRIDAY, 6 AM TO 8 AM AND 3 PM TO 6 PM. ONE LANE CAN BE CLOSED ANY TIME ON SATURDAY AND SUNDAY.

## CONSTRUCTION RESTRICTIONS

THE FOLLOWING DISCUSSION OF CONSTRUCTION SEQUENCING RESTRICTIONS IS PROVIDED FOR THE CONTRACTOR'S BENEFIT WHEN PLANNING HIS/HER CONSTRUCTION WORK TASK SEQUENCING. ITEMS UNDER PERMITTED SEQUENCING ARE NON-BINDING AND COULD BE MODIFIED BY THE CONTRACTOR IF AN ALTERNATE MAINTENANCE OF TRAFFIC METHOD IS SELECTED, ANY APPROVED ALTERNATE MUST INCLUDE THESE RESTRICTIONS.

## RESTRICTIONS

- THE LOCAL STREET CONSTRUCTION MUST BE COMPLETED TO THE POINT THAT BROADWAY TRAFFIC CAN BE PLACED ONTO THE WIDENED/RELOCATED MAIN STREET BEFORE PHASE 2 CAN BEGIN.
- EXCEPT FOR THE 2 WEEK DETOUR FOR THE CONSTRUCTION OF THE TIE-IN FOR RAMP W-5, WB EXIT TO DOWNTOWN (RAMP W-54 AND W-5) SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- RAMP W-5 MUST BE COMPLETED AND OPEN BEFORE BEGINNING PHASE 3.
- EXISTING RAMP W-9 SHALL NOT BE CLOSED UNTIL THE NEW RAMP W-9 IS COMPLETE AND OPEN.
  WOLF LEDGES PARKWAY MUST BE COMPLETED AND
  OPEN TO TRAFFIC BEFORE CONSTRUCTION WHICH
- RESTRICTS LANES CAN BEGIN ON GRANT STREET. PHASE 2 MAY BEGIN ONCE STEEL IS SET AND FALSWORK IN PLACE FOR THE GRANT STREET
- STRUCTURE REPLACEMENT (SUM-76-1085). THE INTENT IS TO HAVE THE GRANT STREET STRUCTURE COMPLETE TO THE POINT OF NOT REQUIRING ANY ZONES ON I-76 BEFORE PHASE 2 **BEGINS**
- 7. BUILDING DEMOLITION WORK, INCLUDING RESTORATION OF THE SITES, SHALL BE COMPLETED BY SEPTEMBER 30, 2016.
- WORK ON WOLF LEDGES AND GRANT STREET THAT REQUIRES AND TRAFFIC CONTROL ON 1-76 SHALL
- NOT BEGIN BEFORE AUGUST 1, 2016. THERE ARE ADJACENT BRIDGES, WITHIN CLOSE PROXIMITY TO WOLF LEDGES AND GRANT STREET THAT WILL ALSO BE UNDER CONSTRUCTION DURING OF 2016. THE CONTRACTOR SHALL COORDINATE WITH THE ADJACENT CONTRACTORS TO MAKE SURE THE I-76 CONSTRUCTION ZONES FOR THIS PROJECT MATCH IN AND DO NOT CONFLICT WITH THE ZONES FOR THE ADJACENT PROJECTS.
- 10. THE WOLF LEDGES AND GRANT STREET STRUCTURES AND APPROACH ROADWAY WORK SHALL BE COMPLETE AND OPEN TO TRAFFIC BY OCTOBER 31,
- 11. PHASE 2 SHALL BE COMPLETED BY AUGUST 31, 12. PHASE 3 SHALL BE COMPLETED BY AUGUST 31,

2019. DATES PROVIDED ABOVE SHALL BE CONSIDERED INTERIM COMPLETION DATES AND SHALL BE SUBJECT TO DISINCENTIVE PENALTY IN THE AMOUNT OF \$1,500 PER DAY THAT THE WORK IS NOT COMPLETE BEYOND INTERIM COMPLETION DATE.

# ITEM 630 - SIGNING MISC.: REMOVE, SALVAGE AND RE-ERECT CONCRETE MEDIAN BARRIER-MOUNTED MILE MARKER (I-76 / I-77)

CONTRACTOR SHALL REMOVE AND SALVAGE THE EXISTING BARRIER-MOUNTED MILE MARKER PER REQUIREMENTS OF ODOT CMS 202. THE CONTRACTOR SHALL STORE THE EXISTING SIGNS FOR THE DURATION OF THE NEED FOR THE CROSSOVER THROUGH THE MEDIAN. THE EXISTING MOUNTING AND POST SHALL BE REMOVED AND REPLACED WITH NEW MOUNTING AND POST PER DETAILS ON SHEET 1135. ALL MATERIALS AND LABOR REQUIRED FOR THE COMPLETE INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH OF ITEM 630 SIGNING MISC.: REMOVE, SALVAGE AND RE-ERECT CONCRETE MEDIAN BARRIER-MOUNTED MILE MARKER.

#### MAINTENANCE OF TRAFFIC AND ACCESS TO PROPERTIES

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC AND ACCESS TO PROPERTIES.

ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE A OR B

ITEM 410, TRAFFIC COMPACTED SURFACE, TYPE C

ITEM 614. ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

500 CY

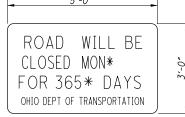
500 CY

100 CY

DRIVES TO REMAIN OPEN AT ALL TIMES UNLESS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. DRIVEWAY ACCESS MUST BE MAINTAINED AT ALL TIMES USING PARTIAL WIDTH CONSTRUCTION.

## ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)

NOTICE OF CLOSURE SIGNS SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD OR RAMP CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT 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.



W20-H14-60 \* CONTRACTOR SHALL USE ACTUAL CLOSURE DATE AND DURATION.

THE COST OF THE NOTICE OF CLOSURE SIGN IS CONSIDERED TO BE INCIDENTAL TO AND INCLUDED IN ITEM 614 - MAINTAINING TRAFFIC.

## ITEM 611 - SLOTTED DRAIN, TYPE 2, APP

THIS WORK SHALL CONSIST OF FURNISHING, MAINTAINING, AND SUBSEQUENTLY REMOVING A 6" TEMPORARY SLOTTED DRAIN, TYPE 2, APP, AT THE LOCATIONS SHOWN IN THE PLAN. THIS ITEM IS USED TO ASSIST IN THE DRAINAGE OF THE CROSSOVERS DURING MOT. THIS ITEM TO BE REMOVED WHEN CROSSOVERS FOR MOT ARE NO LONGER NEEDED. ALL NECESSARY CONNECTIONS, LABOR, MATERIAL, AND EQUIPMENT TO PERFORM THE WORK AND SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR THE ITEM 611 - SLOTTED DRAIN, TYPE 2, APP.

## ITEM 611 - CATCH BASIN, NO. 6, APP

THIS WORK SHALL CONSIST OF FURNISHING, MAINTAINING, AND SUBSEQUENTLY REMOVING A TEMPORARY CATCH BASIN, NO. 6. APP. AT THE LOCATIONS SHOWN IN THE PLAN. THIS ITEM IS USED TO ASSIST IN THE DRAINAGE OF THE CROSSOVERS DURING MOT. THIS ITEM TO BE REMOVED WHEN CROSSOVERS FOR MOT ARE NO LONGER NEEDED. 5' OF 12" CONDUIT IS TO BE USED TO MAKE THE CONNECTION TO THE EXISTING CATCH BASIN AND WILL BE INCIDENTAL TO THIS ITEM. ALL NECESSARY CONNECTIONS, LABOR, MATERIAL, AND EQUIPMENT TO PERFORM THE WORK AND SHALL BE PAID FOR AT THE CONTRACT PRICE PER EACH FOR THE ITEM 611 - CATCH BASIN. NO 6 APP

## LIMITATION OF STREET CLOSURES

THE CONTRACTOR SHALL COMPLETE ALL CONSTRUCTION AND SAFETY ITEMS AND HAVE THE DESIGNATED SECTIONS OPEN TO Z UNRESTRICTED TRAFFIC WITH IN THE CALENDER DAYS SPECIFIED.

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DESCRIPTION OF LOCATION COMPLETION DAYS

PHASE 1. STAGE 1A BROADWAY STREET AND MILLER AVENUE CLOSURE: 10 CALENDAR DAYS

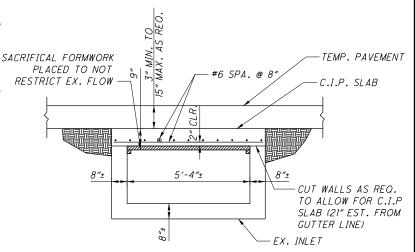
PHASE 1. STAGE 1B BROADWAY STREET AND MILLER AVENUE CLOSURE: 10 CALENDAR DAYS

PHASE 1. STAGE IC YALE STREET CLOSURE: 21 CALENDER DAYS

BROADWAY STREET AND THORNTON INTERSECTION AVENUE CLOSURE: 14 CALENDAR DAYS. NO CLOSURE OF THE BROADWAY/THORNTON INTERSECTION MAY TAKE PLACE UNTIL RAMP W-5 (WB TO NB) BRIDGE IS COMPLETE AND PAVEMENT COMPLETED TO STA 575+75+/- SO THAT THIS MOVEMENT CAN BE OPENED TO TRAFFIC AFTER THE 14 DAY INTERSECTION CLOSURE. THE EXISTING RAMP E MUST REMAIN OPEN PRIOR TO THIS CLOSURE.

#### ITEM 611 - INLET MISC.: REMOVE, PROTECT AND RECONSTRUCT BARRIER MEDIAN INLET (I-76 / Í-77)

CONTRACTOR SHALL SAWCUT THE EXISTING BARRIER MEDIAN INLET TO A DEPTH OF 21" BELOW PROPOSED GUTTER AND PER REQUIREMENTS OF ODOT CMS 202. THE CONTRACTOR SHALL PROTECT THE EXISTING PIPE INVERT WITH A CONCRETE SLAB AND BACKFILL WITH PROPOSED SHOULDER PAVEMENT SECTION FOR THE DURATION OF THE NEED FOR THE CROSSOVER THROUGH THE MEDIAN. THE SLAB SHALL BE AS PER DETAIL SHOWN. CONCRETE SHALL BE CMS ITEM 511, CLASS QCI MISC. WITH 4 KSI DESIGN STRENGTH. REINFORCING SHALL BE PER CMS ITEM 509 NO SEPARATE PAYMENT WILL BE MADE FOR TIME, CONCRETE AND REBAR AND OTHER MISCELLANEOUS ITEMS REQUIRED TO COMPLETE THE WORK AS IT IS INCIDENTAL OT THIS ITEM. THE EXISTING INVERT AND ONE SEGMENT OF EXISTING PIPE SHALL BE REMOVED AND REPLACED PER SCD I-2.4. WHEN THE TIME COMES TO REPLACE THE MEDIAN BARRIER WITH NEW BARRIER THE EXISTING MEDIAN INLET MUST BE REMOVED AND THE NEW MEDIAN INLET RECONSTRUCTED IN IT'S ORIGINAL LOCATION AS APPROVED BY THE ENGINEER. ALL MATERIALS, LABOR, AND EQUIPMENT REQUIRED FOR THE COMPLETE INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH OF ITEM 611 INLET MISC .: REMOVE, PROTECT AND RECONSTRUCT BARRIER MEDIAN INLET.



DETAIL FOR ITEM 611 - INLET MISC.: REMOVE, PROTECT AND RECONSTRUCT BARRIER MEDIAN INLET (I-76 / I-77)

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630 630	SIGNING, MISC.: REMOVE, SAL PAGE RE-ERECT CONCRETE MEDIAN BARRIER-MOUNTED MILE MARKEF	EACH					30/16 TEMP. OVERLAY QUANTITY REVISION ATE DESCRIPTION ETED	MEP 3/ REV. BY D DATE COMPL				
630	REMOVAL OF GROUND MOUNTED SIGN REERECTION, AS PER PLAN	EACH			ADDED	CB-6 SUBSUN	KMK 5/2/16 CROSSOVER DRAINAGE - SLOTTED DRAINS AND CB-6 ADDED KMK 5/2/16 BARRIER REMOVED QUANTITY REVISED - MOT SUBSUMMARY KMK 4/21/16 TEMP. OVERLAY QUANTITY REVISION	KMK 5 KMK 5 KMK 4				
630	SIGN ERECTED, TEMPORARY OVERLAY	SF									80.0	128.0
625 ± ₹ ∑	LIGHT POLE, MISC.: REMOVE, SALVAGE AND RE-ERECT MEDIAN LIGHT POLE WITH RECONSTRUCTION OF MEDIAN FOUNDATION	EACH										
622	PORTABLE BARRIER, 50' MOUNTED, AS PER F	FT										$\equiv$
<i>622</i>	PORTABLE BARRIER, 50°, AS PER PL	FT	570	870 200 1464	120	3355	1526 279 398	1543	1460	870 120 131	550 850 980	5127 17728
622	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE BI	EACH										
622	BARRIER TRANSITION	EACH										
622	CONCRETE BARRIER, SINGLE SLOPE, BI	FT										
615	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	SY									622	14578
614	WORK ZONE ARROW, CLASS I	EACH									2 8	23
614	WORK ZONE STOP LINE, CLASS I	FT									194 194 84 84 48 248	852
614	WORK ZONE DOTTED LINE, CLASS I, PAINT, AS PER PLAN	FT										
614	WORK ZONE DOTTED LINE, CLASS I, PAINT	FT										
614	WORK ZONE CHANNELIZING LINE, CLASS AS PER PLAN	FT	2120 2120 2120			6360	1322 1322 1322 1322 1323 1837 1837 1837 3020 3110 2951	2951 2951		27570	33930	37060 70990
614	WORK ZONE CHANNELIZING LINE, CLASS	FT									1461 547 310 334 595	3247
614 BER	WORK ZONE EDGE LINE, CLASS I, AS PLAN	MILE	0.40			0.80	0.25 0.25 0.35 0.35	0.61	0.56 0.56	3.52	4.32	3.30 7.62
614	WORK ZONE EDGE LINE, CLASS I	MILE									1.50 1.94 1.23 2.45 0.68 1.47	0.14 9.41
614 614	MORA ZONE LANE LINE, LLASS 1, AS PLAN WORK ZONE CENTER LINE, CLASS	MILE MILE									0.20 0.30 0.18 0.30	1.64
	WORK ZONE LANE LINE, CLASS I	MILE									0.79 0.28 0.76 0.37 0.16 1.45	0.13 3.94
14 614 14 614	BARRIER REFLECTOR, TIFE B MAINTAINING TRAFFIC, MISC.: TEMPC DRAINAGE OUTLET FOR MOT	CH EACH	11	8 4 9	4	39	31 65 8	31	9	8 3 4	7	93 83
	WORK ZONE RAISED PAVEMENT M	EACH EA		2					2	1	2	
614	WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)	EACH										
		EACH	1	1	1	3	1 1		1	1 4	7	3 11
611 611	INLET, MISC.: REMOVE, PROTECT AND	ACH EAC									2	2
611	SLOTTED DRAIN, TYPE 2, AS PER PLAN	FT									450	450
202	CONCRETE BARRIER REMOVED	FΤ									900	900
	PARTICIPATION (100% CITY OR PROJECT)		01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV	01/IMS/PV 01/IMS/PV 01/IMS/PV	01/IMS/PV 01/IMS/PV		01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV	01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV	01/IMS/PV 01/IMS/PV 01/IMS/PV 01/IMS/PV	01/IMS/PV 01/IMS/PV 01/IMS/PV		
	ATION	<i>TO</i>	517+70 517+70 517+70 517+70 514+70 514+70	509+70 498+50 513+14	499+53 500+29		506+66 506+66 506+66 506+66 506+66 506+66 511+55 511+55 511+55 511+55 511+55 511+55 511+70 514+70 514+70 514+60	514+60 514+60 514+70 514+70 498+50	513+10 514+60 514+60 501+00	509+70 499+53 500+29	SHEET) HEET 73) HEET 74) HEET 75) HEET 76) HEET 77)	
		FROM	496+50 496+50 496+50 496+50 496+50 495+30	501+00 496+50 498+50	498+34	PHASE 1 / STAGE 1 SUBTO	493+44 493+44 493+44 493+44 493+44 493+18 493+18 493+18 493+18 493+18 493+18 493+18 493+18 493+18 493+18	485+09 485+09 482+50 483+60 483+07	498+50 485+09 485+09 495+61	501+00 498+34 498+74 PHASE 1 / STAGE 3 SUBTO	THASE I SUBTOTALS (THIS STOTALS (THIS STOTALS (CARRIED FROM STOTAL	TOTALS (CARRIED FROM S E 1 TOTALS (CARRIED TO
	SHEET NO.		206-208 206-208 206-208 206-208 206-208 205-206	206-207 206 206-208	206		210-212 210-212 210-212 210-212 210-212 210-212 210-212 210-212 210-212 210-212 210-212 211 211 213-217 213-217	213-217 213-217 213-217 214-217 214-217 213-215	215-217 213-216 213-216 214-215	215-216 215 215	PI SUB SUB SUB SUB SUB	
	REFERENCE NO.		CH-4 CH-5 CH-6 EW-2 EY-2	PB-1A PB-2 PB-2A	PB-3 PB-4		CH-1 CH-2 CH-3 EW-1 EY-1 CH-4 CH-5 CH-6 EY-2 EY-2 EY-2 PB-1 PB-2 PB-3 CH-1 CH-2	CH-5 CH-6 EW-1	PB-1A EY-2 EW-2	PB-2A PB-3 PB-4	X (Madin Broadawa)	Project
							5 8:48:22 AM kyle_koppes	dgn 5/4/2016	.77269MS001.	MOT\Sheets\	:ts\Main Broadway\I	\Projec

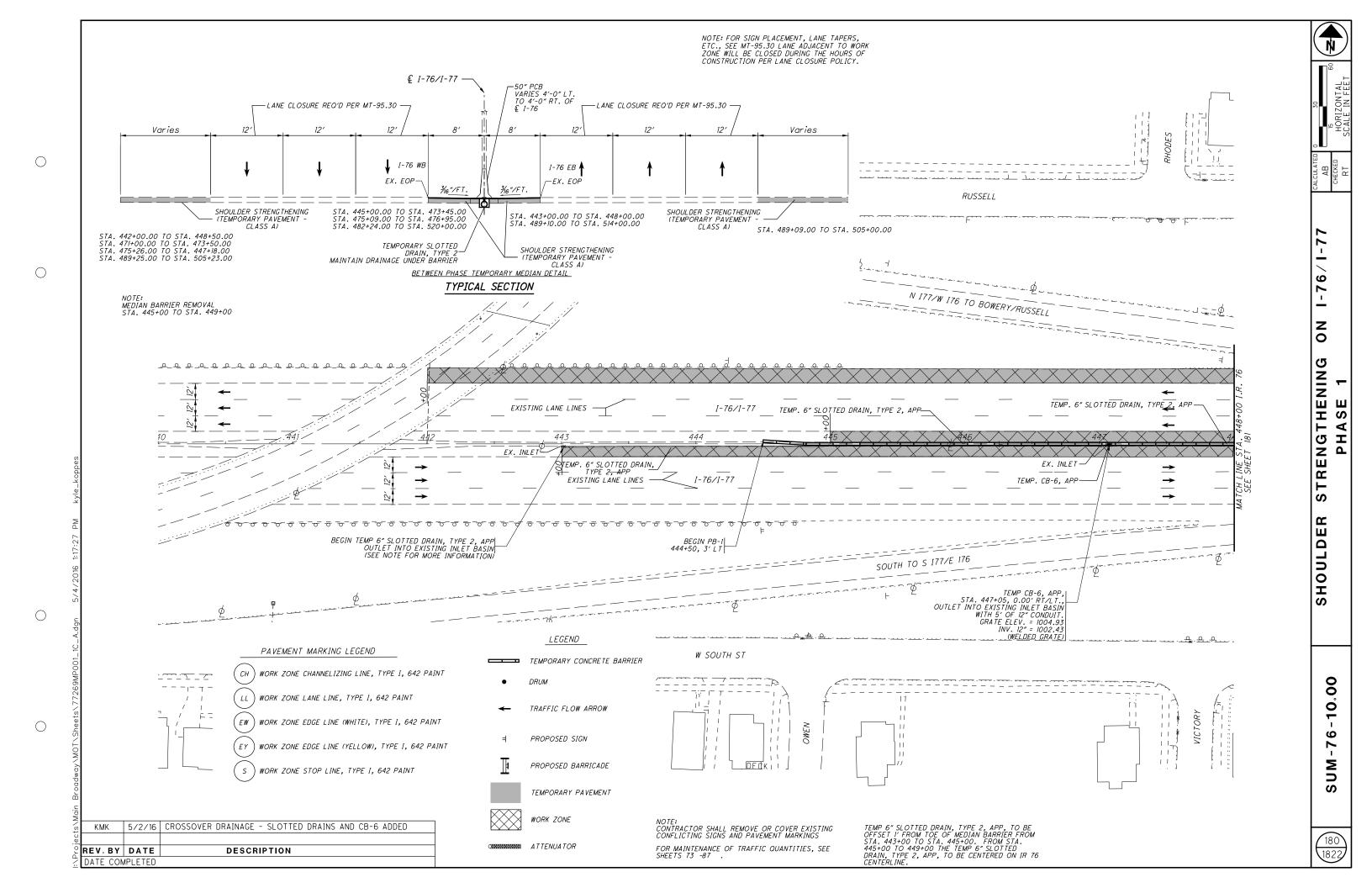
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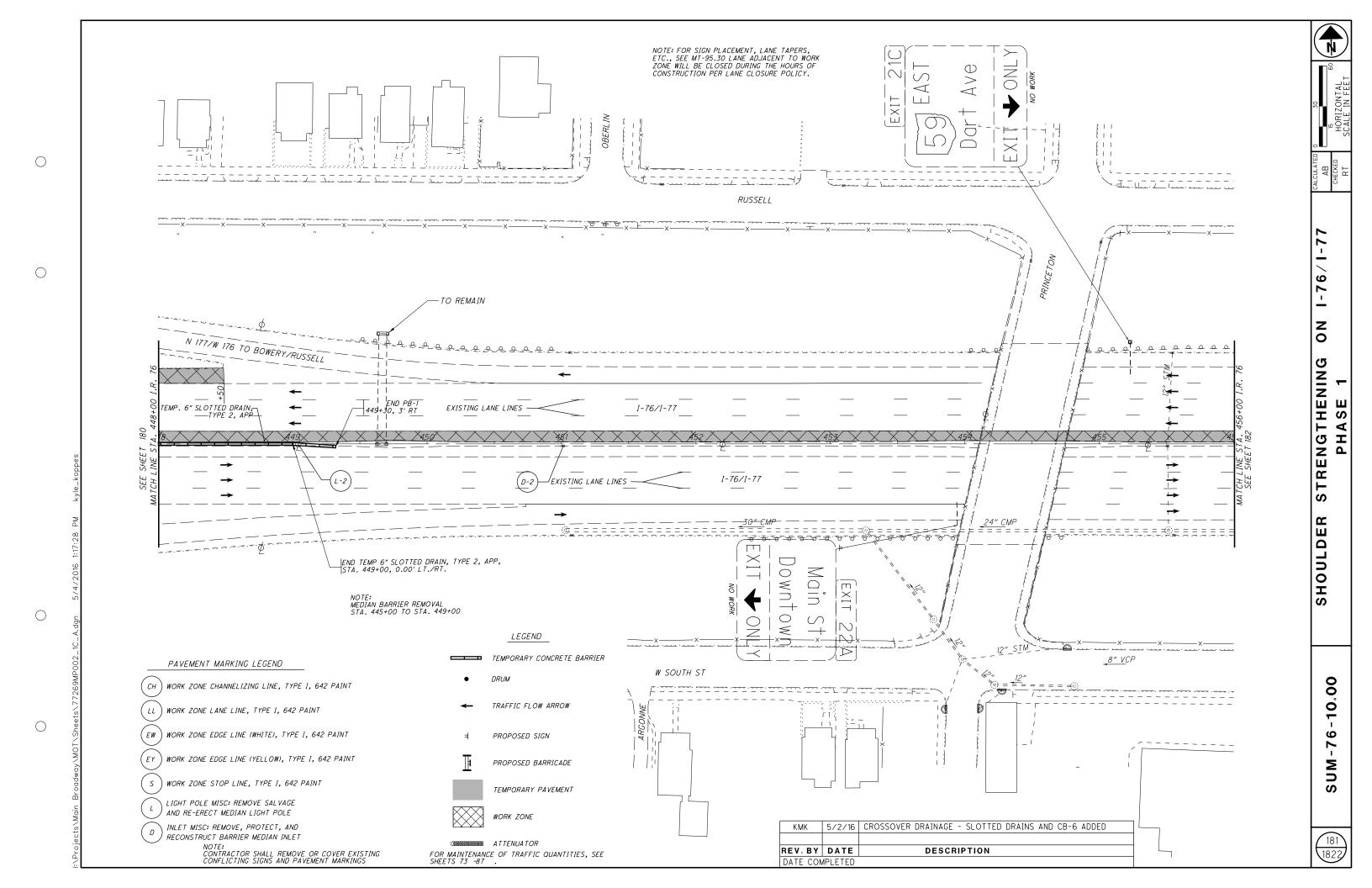
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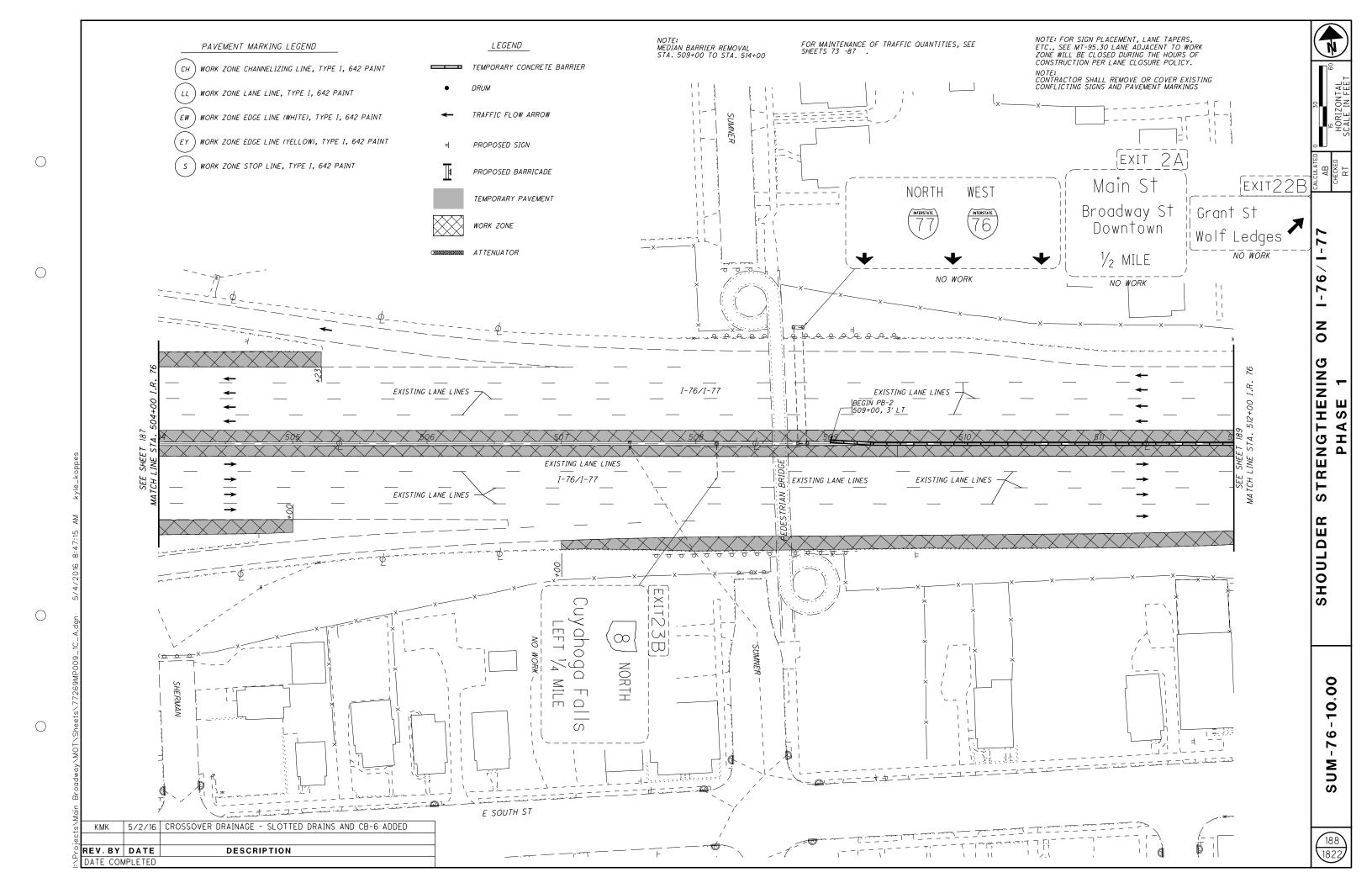
П						202	611	611 61	614	614	614	614	614	614	614   6	614	614	614	614	614	614	614	614	614	615	622	622	622	622	622	625	630	630	630	
							PLAN				MARKER		MOT	I	PER .	_	I	AS PER	CLASS I	4SS I,	1, 642	1, 642	I		TRAFFIC,	ТҮРЕ		HORAGE,	PLAN		LIGHT POLE, MISC.: REMOVE, SALVAGE AND RE-ERECT MEDIAN LIGHT POLE WITH RECONSTRUCTION OF MEDIAN FOUNDATION		AND	AND R	CALCULAT AP CHECKED RT
					ECT)	REMOVED	PER	CATCH BASIN, NO. 6, AS PER PLAN INLET, MISC.: REMOVE, PROTECT AND	CONSTRUCT BARRIER MEDIAN INLE WORK ZONE IMPACT ATTENUATOR	CONE IMPACT ATTENUATOR (BIDIRECTIONAL)	INT MA	TYPE B	R MOT	AS	S I,	, CLASS	CLASS	CLASS I, A		NE, CL	CLASS I	, CLASS I PLAN	CLASS	ASS I	G TRAF	SL OPE,	NO	NCHOR, BI	PER	PORTABLE BARRIER, 50", BRIDGE MOUNTED, AS PER PLAN	E, SAL T POLE FOUND	SIGN ERECTED, TEMPORARY OVERLAY	REMOVAL OF GROUND MOUNTED SIGN REERECTION, AS PER PLAN	: REMOVE, SALVAGE , CONCRETE MEDIAN JUNTED MILE MARKER	
CE NO	NO.				TION PROJECT)	ER RE.	2, 45	6, AS	A ATTE	" ATTE	A VEME	OR, I	T FOR		CLASS	LIME,	INE,	CLAS	ING T.I	'NG LI		INE, C	LINE,	JW, CL	AININ A	VGLE :	NSITI	END A. TYPE	50", 45	, 50″, PER P	EMOVE LIGHT EDIAN	ORAR)	NOUNT PER	VE, S, PETE N MILE	
REFEREN	SHEET		LOCATION		PARTICIPAT (100% CITY OR F	BARRIER	TYPE	NO. 6	MPAC1	MPACT RECTI	ZONE RAISED PAVEMENT	BARRIER REFLECTOR, TYPE	007LE	LANE LINE,	LINE, PLAN	CENIER LINE,	EDGE LINE,	LINE, PLAN	CHANNELIZING LINE,	CHANNELIZING LI. AS PER PLAN	ZONE DOTTED LINE, PAINT	ZONE DOTTED LINE, PAINT, AS PER F	STOP I	ARROW,	R MAINTAINING CLASS A	BARRIER, SINGLE : BI	BARRIER TRANSITION	TE BARRIER, END ANCH REINFORCED, TYPE BI	IER, 5	IRRIER ), AS	SC.: R EDIAN OF M	TEMP	UND A	REMO CONCR JN TED	
RE					PAR 0% CII		DRAIN,	ASIN, SC.: F	ONE	ONE I	E RAI:	IER RE	VAGE (	ONE	LA	ZONE CE	ONE I	EDGE	CHAN	CHAN	100	DOT.	ZONE S	ZONE	F0F	SARRIE	ARRIE	BARF	BARRIER,	LE BA UNTED	E, MIS ECT MI	STED,	F GRC	NSC.: RECT ( R-MOU	
					001	CONCRETE	SLOTTED [	CATCH BASIN, NO.	ORK Z	WORK Z	K 20N	BARR.	DRAINAGE OUTLET FC	SR/	0.0	MORK 20	WORK ZONE	WORK ZONE EDGE	ZONE	ZONE	ZONE	ZONE	WORK 2	WORK	PAVEMENT	3E TE E	В	CONCRETE RI	PORTABLE	OR TAE MC	17 POL RE-ERI ISTRU(	N ERE	VAL O REEF	SIGNING, MISC.: F RE-ERECT C BARRIER-MOU	
							270	CA	NEC.	8	WORK	MAINT	MAIN		WORK	¥		WORK	WORK	WORK	WORK	WORK	И		PAV	CONCRETE		VOJ	POR	٩	LIGH AND .	SIG	REMO	SIGN	×
		FROM	I.R. 76	TO		FT	FT	EACH EAC	H EAC	H EACH	EACH	EACH E.	ACH I	MILE	MILE M	ILE	MILE	MILE	FT	FT	FT	FT	FT	EACH	SY	FT	EACH	EACH	FT	FT	EACH	SF	EACH	EACH	UMMA
LL-8	275-276	48+00	1111110	54+80	01/IMS/PV									0.13										•										JUST	Σ
A-8 CH-1B	276 276	54+10 53+65		54+85	01/IMS/PV 01/IMS/PV														120					1									DED IRY	AD .	าร
A-9 S-5	276 276	54+75 54+80			01/IMS/PV 01/IMS/PV																		35	1									6 ADI	/STA	<u> </u>
S-6	276	56+15			01/IMS/PV																		55										CB-6 ADDEI SUBSUMMARY	SION	l S
A-10	276	56+25			01/IMS/PV																		33	1									AND	SION	<u> </u>
LL-9 LL-10	276 276-278	56+15 56+15		161+71 266+80	01/IMS/PV 01/IMS/PV									0.11																			AINS D - 1	REVI	<u> </u>
LL-11	276-277	56+15		262+21	01/IMS/PV									0.11																			OF VISE	TITY	AF
A-11 CH-5A	276 276-277	56+90 56+15		58+15	01/IMS/PV 01/IMS/PV														200					1									OTTE TY RE REVIS	DUAN DUAN	TR
EW-6		NOT		USED															200														- SL ANTI ITY	CUNI/	
EY-8 EY-9	276-277 276-277	56+15 56+15		161+50 161+50	01/IMS/PV 01/IMS/PV												0.10																5/2/16   CROSSOVER DRAÎNAGE - SLOTTED DRAÎNS AND 5/2/16   BARRIER REMOVED QUANTITY REVISED - MOT 4/21/16   TEMP OVERLAY QUANTITY REVISED	ATOR (UNIZBI) QUANTITY REVISIONZS OVERLAY QUANTITY REVISION ESCRIPTION	0 F
EW-7	277-278	59+00		9+14	01/IMS/PV												0.17																DRAII AOVE AY C	ENUAT MP. O'	ш
CH-3 S-7	277 278	361+00 158+49		363+50	01/IMS/PV 01/IMS/PV														200				36										VER REI	ATT D TE	N C
CH-5	278-279	159+54		162+54	01/IMS/PV														100				30										OSSO RRIEF MP O	PACT B AN	∢
A-12	278	158+73			01/IMS/PV																			1									CR BA S TE	B IM	INTEN
CH-6 CH-4	278 277	158+49 161+50		159+24 163+50	01/IMS/PV 01/IMS/PV												0.01		200														/2/16 /2/16 /21/16	77/16 30/1 <b>ATE</b>	
EY-1 DW-1	280-289	434+10 438+60		515+50 444+00	01/IMS/PV 01/IMS/PV												1.54				540												5,	3/ 4/ D	A
		442+94		523+00	01/IMS/PV												1.52				310												KMK KMS	KMS MEP (EV. B)	Σ
7 SZ: D-1	280	447+01			01/IMS/PV			1																										R □	<u>ė</u>
84.8 M-1 F-1	280	445+89 446+25			01/IMS/PV 01/IMS/PV																										1			1	1
9PB-1 PB-2	280-281 280-281	444+00 444+40		449+10 449+50	01/IMS/PV 01/IMS/PV				1																				910 390						-
PB-3	282	456+50		466+10	01/IMS/PV				1																				960						-
PB-4	282	456+90		466+50	01/IMS/PV				1																				960						-
р. РВ-5 РВ-6	284 284	477+50 477+90		479+10 479+50	01/IMS/PV 01/IMS/PV				1																				160 160						-
OS PB-7 PB-8	289 289	499+50 499+90		514+10 514+50	01/IMS/PV 01/IMS/PV				1																				1460 1460						0
L-2	288	511+35			01/IMS/PV																								,,,,,,		1				၂ ၀
D-5	289	512+50		512+50	01/IMS/PV			1																							ı				-10
1\She	280	444+50		449+00	01/IMS/PV																					450	1	2							26
W W	289	509+00		517+00	01/IMS/PV																					800	1	2							Σ.
odwo)	PH	PHASE 4 SUBT ASE 4 SUBTOTALS						2	8	_				0.55 0.55			3.44 3.44		820 820		540 540		126 126	5 5		1250 1250	2	4	6460 6460		2			1	<b>∦</b> ⊃ ∣
Bro		SUBTOTALS (CARRI	IED FROM SHEE	T 86)				2					(	0.93			1.03		1189				122	7				,			2	25.5		<u> </u>	S
/Main		PHASE 4 TO: 1 TOTALS (CARRIED	) FROM SHEET			900	450	2	8 11			383	,	1.48 3.94	-	.64			2009 3247	70990	540		248 852	12 23	14578	1250		4	6460 17728			25.5 128.0			1
jects		2 TOTALS (CARRIEL 3 TOTALS (CARRIEL							3		630 564				2.63 3.40 0			7.59 7.91	452 236	5563 12535		1635 5270	36		1508				15576 13284	530 225		232.5 9.0	1		87
\Pro		LS CARRIED TO GE			•	900	450	2 2	25		<del>1 1</del>	932				-		23.12	5944	89088	540	6905	1136	35	16086	1250	2	4	53048		2	395.0	1	1	1822

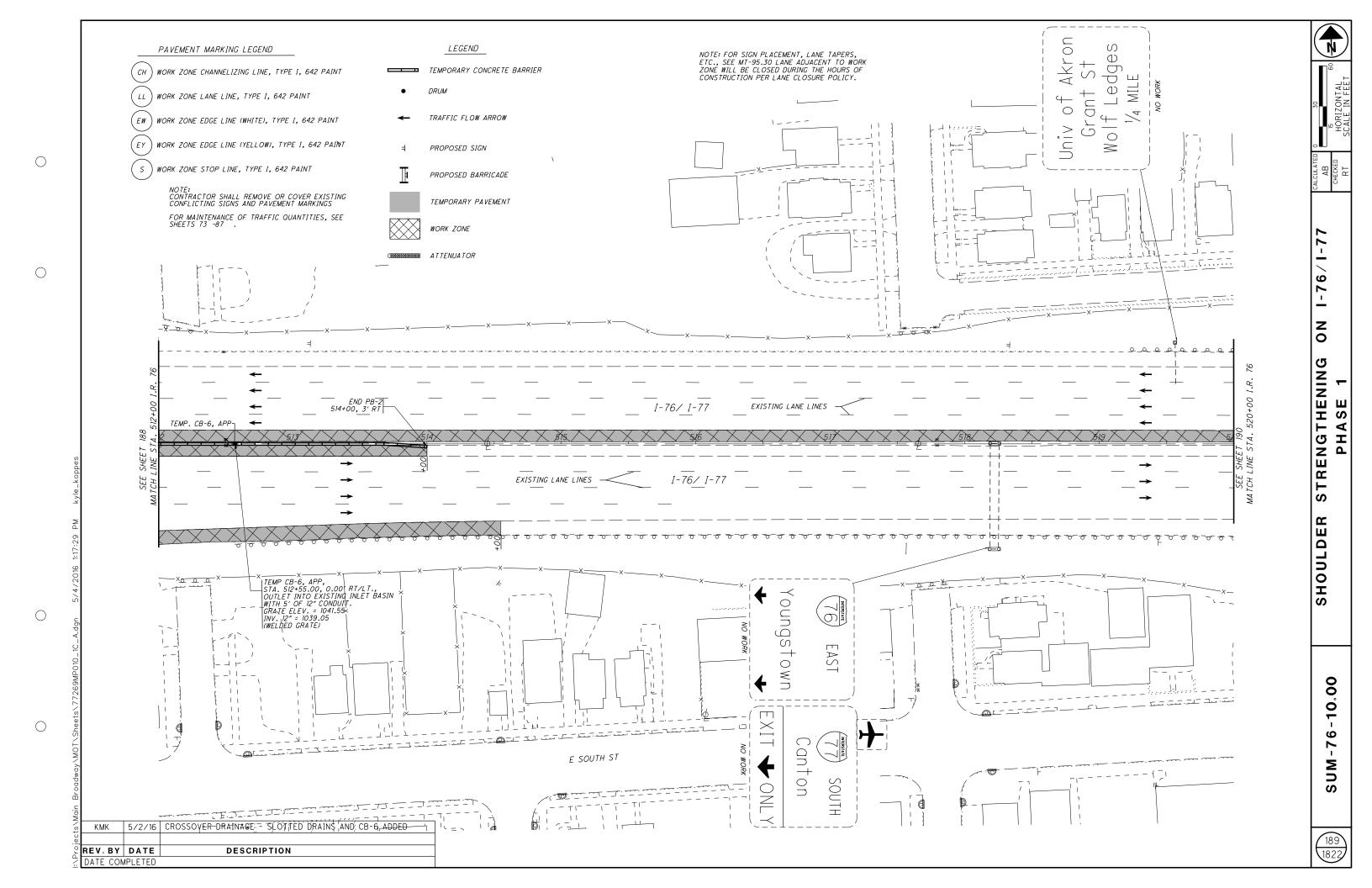
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	43 44	45 46	47	48 49	50 55	63 64	65 66 67 68	87 312	325	328 336	355	356	367	368	369	370 699	851	970 118.		PARTICIPATION /IMS/PV04/IMS/ OT/AKRN	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SHE.
.CS 42	, ,	10 10	''	70   10	00 00	100 107	00 00 07 00	01 312	320	320 330	300	300	301	300	300	370 000	1007	370 110.	3 1237 717	ΦT/AKRN	/	<u> </u>	707712		ROADWAY	NC
LS																				LS	201	11000	LS		CLEARING AND GRUBBING	+
									LS											LS	202	11000	LS		STRUCTURE REMOVED	
									161634		1129		5048							167212 599	202	23000	167811	SY	PAVEMENT REMOVED	
									10669											10669	202	23001	10669	SY	PAVEMENT REMOVED, AS PER PLAN	42
04									13856											15260	202	23500	15260	SY	WEARING COURSE REMOVED	_
									162493									320	0	162813	202	30000	162813	SF	WALK REMOVED	+
-									13											13	202	30200	13	FT	STEPS REMOVED	+
								900	5951											6851	202	30700	6851	FT	CONCRETE BARRIER REMOVED	
									53											53	202	30800	53	SY	TRAFFIC ISLAND REMOVED	
									37133									40		37173	202	32000	37173		CURB REMOVED	
									1699											1699	202	32500	1699	FT	CURB AND GUTTER REMOVED	-
$\rightarrow$											15316		1217							15214 1319	202	35100	16533	FT	PIPE REMOVED, 24" AND UNDER	+
$\rightarrow$											2134		1211							1677 457	202	35200	2134	FT	PIPE REMOVED, OVER 24"	+
									7120											7120	202	38000	7120	FT	GUARDRAIL REMOVED	
											61									61	202	58000	61	EACH	MANHOLE REMOVED	
											156									156	202	58300	156	EACH	CATCH BASIN OR INLET REMOVED	
						1														,	202	66500	1	EACH	UNDERGROUND STORAGE TANK REMOVED	4
						'					381									381	202 SPECIAL	20270000	381	FT	FILL AND PLUG EXISTING CONDUIT	4
$\overline{}$														9222						9222	202	75000	9222	FT	FENCE REMOVED	<u> </u>
													139							139	202	75610	139	EACH	VALVE BOX REMOVED	
																	1			1	202	98100	1	EACH	REMOVAL MISC.: REMOVE AND RE-ERECT BUS SHELTER	85
									1.0											1.6	202	00000	1.0		DEMOVE MICC. DIVERGED DEMOVED	+,
									LS 12											LS 12	202 202	98000 98100	LS 12	EACH	REMOVAL MISC.: BILLBOARD REMOVED REMOVAL MISC.: UTILITY POLE FOUNDATION	4.
									166											166	202	98200	166	FT	REMOVAL MISC.: WALL REMOVED	84
										166597										166597	203	10000	166597		EXCAVATION	
										3881										3881	203	10001	3881	CY	EXCAVATION, AS PER PLAN	42
-										178228									+	178228	203	20000	178228	CY	EMBANKMENT	-
134		315														3905			+ + ;	182654	204	10000	182654	SY	SUBGRADE COMPACTION	+
										9666										9666	204	13000	9666	CY	EXCAVATION OF SUBGRADE	
										9784										9784	204	30010	9784	CY	GRANULAR MATERIAL, TYPE B	
91																				91	204	45000	91	HOUR	PROOF ROLLING	+
	0.45																			0.45	209	60501	0.45	MILE	LINEAR GRADING, AS PER PLAN	4.
																									,	
								2362.5												2362.5	606	15050	2362.5	FT		
								200												200	606	17350	200	FT		
								8												8	606	26100			ANCHOR ASSEMBLY, TYPE E	_
_								9												9 14	606 606	26500 35000	9 14	EACH	ANCHOR ASSEMBLY, TYPE T BRIDGE TERMINAL ASSEMBLY, TYPE I	+
								177												14	000	33000	17	LACII	DITUOL TERMINAL ASSEMBLT, THE T	+
								5												5	606	35100	5	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2	
								1												1	606	60040	1	EACH		
								1												1	606	60041	1	EACH	IMPACT ATTENUATOR, TYPE 3 UNIDIRECTIONAL, AS PER PLAN	45
														8045						8045	607	23001	8045	FT	FENCE, TYPE CLT, AS PER PLAN	40
+														6						6	607	50900	6	EACH	GATE, TYPE CL	+
														6679						6679	607	70000	6679	FT	FENCELINE SEEDING AND MULCHING	
		1000			$\perp$														$\perp$	1000	607	98000	1000	FT	FENCE, MISC.: TEMPORARY CONSTRUCTION FENCE	4:
			+					9081												9081	608	10000	9081	SF	4" CONCRETE WALK	+
+			+		++-			76568										220		76788	608	13000	76788		6" CONCRETE WALK	+
		1000																		1000	608	21200	1000	SF	TEMPORARY ASPHALT CONCRETE WALK	$\top$
								7												7	608	40000	7	FT	CONCRETE STEPS, TYPE A	4
$\perp$			$\perp$					7358											+	7358	608	52003	7358	SF	CURB RAMP, AS PER PLAN A	4
+			++					345											+ +	345	608	52003	345	SF	CURB RAMP, AS PER PLAN B	4
+++			+					1115												1115	608	52003	1115	SF	CURB RAMP, AS PER PLAN C	4
MK 5	1 5/2/16 Lp	ADDIED DE	MOVED		ITY DEVIC	ED - MOT S	STIMMARY	1634												1634	608	52003	1634	SF	CURB RAMP, AS PER PLAN D	4
		DDED BILL				LD - MOIS	TARIVINO	661												661	608	52003	661	SF	CURB RAMP, AS PER PLAN E	4
						ASSOCIATED	O QUANTITES ADDED	415												415	608	52003	415	SF	CURB RAMP, AS PER PLAN F	4
MK   5,						L QUANTIT		566										-		566	608	52030	566	SF	CURB RAMP, TYPE BI	+
JEM 4									1	i 1	1	1		1	i		1 1	1	1 1	000	000	UZ UJU	000	J'	TOORD HAMI, THE DI	
JEM 4 JEM 4	1/6/16 BI	P GAS STA				EVISION RATIVE WAL		35813										100	0	35913	608	98000	35913	SF	WALKWAY, MISC.: 6" DECORATIVE CONCRETE WALK	45

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42	43 44	45	46 4	47 48	49	50 55	63 64	65 66 67	68 87	ET NUMBER 312	325	328 336	355	356	367	368	369	370 699	gE1	970	1183 1237	PARTICIPATION  01/IMS/PV 04/IMS/ 01/AKRN	ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SE SHE
42	70 77	73	40 4	11 40	43	30 33	03 04	03 00 01	00 07	JIZ	323	320 330	333	330	301	300	303	310 033	031	310	1103 1231	OT/AKRN	-		TOTAL		ROADWAY (CONT.)	NO
										672												672	622	10060	672	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE B	+
									1250	3238												4488	622	10100	4488	FI	CONCRETE BARRIER, SINGLE SLOPE, TYPE BI	$\top$
										3375												3375	622	10121	3375	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C, AS PER PLAN	4
										3783												3783	622	10160	3783	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	
										456												456	622	10161	456	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN A	4.
					+					20												20	622	10161	20	FT	CONCRETE DARRIED CINCLE CLORE TYPE D. AC DED DLAN D.	4.
					+					20 12												20	622 622	10161 10161	20 12	FI	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN B CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN C	4
									2	2												4	622	10200	4	EACH	BARRIER TRANSITION	+-
									2	12												12	622	10201	12	EACH	BARRIER TRANSITION, AS PER PLAN A	4.
										1												1	622	10201	1	EACH	BARRIER TRANSITION, AS PER PLAN B	4
										1												1	622	10201	1	EACH	BARRIER TRANSITION, AS PER PLAN C	4.
										I												1	622	24840	1	EACH	CONCRETE BARRIER END SECTION, TYPE B	$\perp$
										5												5	622	25000	5	EACH	CONCRETE BARRIER END SECTION, TYPE D	$\bot$
					_					8												8	622	25004	8	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B	+
					+				4	65												69	622	25006	69	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE BI	+
										26												26	622	25009	26	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C, AS PER PLAN	4
																												—
					+					52												52	622	25050	52	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	+
										7												7	622	25051	7	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN	4
36																						36	627	38500	36	EACH	MONUMENT ASSEMBLY	+
16																						16	623 623	39500	16	EACH	MONUMENT ASSEMBLY  MONUMENT BOX ADJUSTED TO GRADE	+
10																						10	023	33300	- "-	LAGII	MONOMENT BOX ADDOCTED TO GIADE	十
																2						2	625	32000	2	EACH	GROUND ROD	工
			9																			9	SPECIAL	69098000	9	EACH	MISC.: VERTICAL CLEARANCE	+
																							JI LUIAL	03030000		LACII	MIJO. YENTIONE CELANAMOE	十
												27484										27484	861	10000	27484	SY	GEOGRID FOR SUBGRADE STABILIZATION	工
																											EROSION CONTROL	+
					+								7									7	601	11000	7	SY	RIPRAP USING 6" REINFORCED CONCRETE SLAB	+
										1264			<u> </u>									1264	601	20000	1264	SY	CRUSHED AGGREGATE SLOPE PROTECTION	+
										3869												3869	601	21000	3869	SY	CONCRETE SLOPE PROTECTION	+
				8								11										19	601	21050	19	SY	TIED CONCRETE BLOCK MAT, TYPE I	
													6									6	601	32100	6	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
																												1
													13									13	601	32200	13	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	+
	2																					2	659	00100	2	EACH	SOIL ANALYSIS TEST	十
	220.	34																				22034	659	00300	22034	CY	TOPSOIL	
			453									198055										198508	659	10000	198508	SY	SEEDING AND MULCHING	
	992	$\overline{}$																				9925	659	14000	9925	SY	REPAIR SEEDING AND MULCHING	$\perp$
	992	25																				9925	659	15000	9925	SY	INTER-SEEDING	$\bot$
	27	20																				27.00	050	20000	27.00	TON	COMPOSIN SERVICE	+
	27.6																					27.69 41.01	659 659	20000 31000	27.69 41.01	TON ACRE	COMMERCIAL FERTILIZER LIME	+
	109				+																	1099	659	35000	1099	MGAL	WATER	+
	44																					447	659	40000	447	MSF	MOWING	+
																								10000		11101		士
													2687									2687	670	00700	2687	SY	DITCH EROSION PROTECTION	+
			+	+	2050		400									_	+			$\vdash$		2450	SPECIAL	69065010	2450	TON	WORK INVOLVING SOLID WASTE	4
				500																		500	SPECIAL	69065016	500	TON	WORK INVOLVING PETROLEUM CONTAMINATED SOIL	4
				1000			500																SPECIAL	69065022	1000	GAL	WORK INVOLVING NON-REGULATED WATER	4
			_		5000		500									+				$\vdash$			SPECIAL SPECIAL	69065024 69065100	5500 50	GAL TON	WORK INVOLVING REGULATED WATER WORK INVOLVING CONSTRUCTION DEBRIS	4:
																							J. LUIAL	00000100		1011	TOTAL PROCESSION CONTINUOUS DEDITION	
																		LS				LS	832	15000	LS	F10	STORM WATER POLLUTION PREVENTION PLAN	工
			-	+												+	5	58000		$\vdash$		558000	832	30000	558000	EACH	EROSION CONTROL	+
+	+ + +				-	+ +	+ +	+ + + +			+		849									849	836	10000	849	SY	SEEDING AND EROSION CONTROL WITH TURF REINFORCING MAT, TYPE I	$\top$
																+	+			+					ļ	<del> </del> •	The state of the s	+
Κ .						B1 END AN																					DRAINAGE	士
S 4	4/6/16	BARRIER BARRIER	RAN: R, SING	ISITION GLE SLO	, APP DPE,(	A, DITCH TYPE C. A	EROSION AS PER PLA	PROTECTION, CO AN & TYPE D) QU	NCRETE ANTITES UP	PDATED			9.2			-						9.2	602	20000	9.2	CY	CONCRETE MASONRY	$\bot$
		.=.			•	, .										-+				$\vdash$		<del>                                     </del>		-				+
												1	1				1	1	in II	i 1	1							

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ICE -			_							HEET NUMB									1	PARTICIPA		I ITEM EXT	GRAND	UNIT	DESCRIPTION	SHF
	12 43 44			9 50 55		64 65		67 68	87	312	325	328	336 .	355 356	367 368	369	370	699 851 970 1	183 1237	01/IMS/PV 0	/AKRN	, I LINI LAI	TOTAL	01111		SHE I
ИK		UANTITY REV		NON-REINFO	ORCED (	CONCRET	E PAVI	Γ						1						,	611	00771	,	EACH	DRAINAGE (CONT.) CATCH BASIN, NO. 6, AS PER PLAN	97
MS V RV	4/6/16 QI DATE	UANTITIES U	DESCRIP	TION										6						6	611 611	98371 98470	6	EACH	CATCH BASIN, NO. 2-2B	1 97
	MPLETED		DESCRIP	11011										1						1	611	98540	1	EACH	CATCH BASIN, NO. 2-4	+
	1 1									7-				1						1	611	98634	1	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	$\top$
														1						1	611	98700	1	EACH	INLET, SIDE DITCH	
														14						14	CII	00011	14	FACIL	INLET NO 70 AC DED DIAM	107
														3						3	611 611	98811 99094	3	EACH EACH	INLET, NO. 3C, AS PER PLAN INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B	97.
														14						14	611	99100	14	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE BI	+
														15						15	611	99114	15	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D	+
														122						122	611	99574	122		MANHOLE, NO. 3	1
														21						21	611	99654	21		MANHOLE ADJUSTED TO GRADE	_
			0										_	7						/	611	99660	/	EACH	MANHOLE RECONSTRUCTED TO GRADE	+
			8										6							14	611 611	99710 99720	14	EACH EACH	PRECAST REINFORCED CONCRETE OUTLET INSPECTION WELL	+
			2											1						1	611	99855	1	EACH	WATER QUALITY BASIN, DETENTION, AS PER PLAN	97
														,						,		1 00000	<u> </u>	271077	inter done it broin, beterrion, no ten tem	<b>+</b> **
			11800																	11800	SPECI	4L 61199820	11800	LB	MISCELLANEOUS METAL	48
		$\Box$					$\perp$									$\bot$				722		.,	<b>_</b>		LOW CTOSHOTH HODT IN CLOSES	$\perp$
-			30	00															_	300	613	41200	300	CY	LOW STRENGTH MORTAR BACKFILL	+
+					+ +		+			+		+						1	+	1	SPECI	4L 6906530	, ,	EACH	GROUND WATER MONITORING WELL ABANDONMENT	48
+					+ +		++			+								1	+	1 1	SPECI			EACH	GROUND WATER MONITORING WELL ABANDONMENT GROUND WATER MONITORING WELL RECONSTRUCTION	48
																		,		1 '	3/ 201	42 03003370	<u> </u>	LACII	ONGOIND WATER WORLTONING WELL NECONSTRUCTION	+ "
														448						448	839	30000	448	FT	TRENCH DRAIN WITH STANDARD GRATE	
																								$\perp$	CUSUSUS	
	650																			650	251	01000	650	SY	PAVEMENT PARTIAL DEPTH PAVEMENT REPAIR	+
	650																			000	231	01000	030	31	FARTIAL DEFIN FAVEMENT REFAIR	+
6																				9196	252	01500	9196	FT	FULL DEPTH PAVEMENT SAWING	+
																						1				$\top$
	650																			650	253	01000	650	SY	PAVEMENT REPAIR	
+																				17000		21000	17000	- 614	DIVENEUT DI ANNO ACCUMIT COMODETE	$\perp$
2																			_	17962	254	01000	17962	SY	PAVEMENT PLANING, ASPHALT CONCRETE	+
4																		229	+	11073	301	46000	11073	CY	ASPHALT CONCRETE BASE, PG64-22	+
																			+		1 307	,,,,,,	1,013	"	The same of the sa	$\top$
																				28101	302	46000	28101	CY	ASPHALT CONCRETE BASE, PG64-22	
																		61		61	304				AGGREGATE BASE	<b>—</b>
2																				9912 19839	304 304		9912 19839		AGGREGATE BASE, AS PER PLAN A AGGREGATE BASE, AS PER PLAN B	43
9		158																		158	304		158		AGGREGATE BASE, AS PER PLAN C	4.
		130																		150	304	20001	150	1 01	ADDITION TO DADE, AS TEN TENN C	+ <sup>7</sup>
														54	76					106	24 407	10000	130	GAL	TACK COAT	
9																		124		1693	SPECI	4L 4072050	) 1693	GAL	TACK COAT, TRACKLESS TACK	44
3																				11643	SPECI	4L 40720510	11643	GAL	TACK COAT, TRACKLESS TACK FOR INTERMEDIATE COURSE	44
-														200	70					2700	" 44	10000	2407	OV	ACRIMIT COMORETE CUREACE COURCE TYPE I (AAC) ROCA 20	-
7														26 60	36 84					2396 5755	11 441 26 441	10000	2407 5781		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22 ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446)	
'	920													00	04					920	441	50200	920		ASPHALT CONCRETE INTERMEDIATE COURSE, TIPE 2, (440)  ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448)	+
	320																	58		58	441	50400	58	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS)	+
	147																			147					ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), (UNDER	1,
	147																			147	441	50701	147	CY	GUARDRAIL), AS PER PLAN	43
																									LORUM T ANNOUNT CHOCK TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO THE TOTAL TH	$\perp$
1										+										3568	442		3568		ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE B (446)	$\perp$
					+ +		+			+									-	4316 3117	442 451	10150 14010	4316 3117	CY SY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE B (446) 9" REINFORCED CONCRETE PAVEMENT, CLASS OCI	4.3
					+ +							+							$\dashv$							
																					2172 451	14011	2172	SY	9" REINFORCED CONCRETE PAVEMENT, CLASS OCI, AS PER PLAN "A"	43
																					683 451	14011	683	SY	9" REINFORCED CONCRETE PAVEMENT, CLASS OCI, AS PER PLAN "B"	44
1					$\perp$					$\perp$						1					73/	14011	1 005	J 3'	O NEAR ONCE COMMETE LATERIENT, CEASO COL, AS LEN LEAN D	
					+					$\perp$									_		55A AF.	20000	EFA	Cv	DEINICADOED CANODETE DAVENENT MICC. CANODETE MEADED	+
					+				+			+							+	1193	554 451 SPECI	20000 4L 45130000			REINFORCED CONCRETE PAVEMENT, MISC.: CONCRETE HEADER PRESSURE RELIEF JOINT, TYPE A	46
					+ +							+							+	1100	JI LUI	10100000	, 1105	<del>  ''  </del>	THEOSONE NEELE COMMI, THE M	+ 70
$\top$																		2		2	452	10050	2	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS OC MS	$\top$
														1474	6842			434		7962	788 452	12050	8750		8" NON-REINFORCED CONCRETE PAVEMENT, CLASS OC MS	
																				26063	452	15010	26063	SY	12" NON-REINFORCED CONCRETE PAVEMENT, CLASS OCI	
3																										

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TICE 42 43	44	45	46 47	48	49	50 55	63	64 65	66 67	68	1	EET NUMBER 312	325	328 3	336	355 35	6 367	368	369	370	699	851	970 1183 12	37 01/IM	RTICIPATION IS/PV 04/IMS OT/AKE		ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEE NO.
																									O17 AKI	VIA				LANDSCAPING (CONT.)	<u> </u>
																							5	3 5	3	661	40031	53	EACH	DECIDUOUS TREE, 6' HEIGHT, CRUSADER HAWTHORN, AS PER PLAN	1225
																							7	6	76	661	40101	76	EACH	DECIDUOUS TREE, 2-1/2" CALIPER, PRINCETON ELM TREE GRATE, AS PER PLAN	1225
																							5	3 5	3	661	40101	53	EACH	DECIDUOUS TREE, 2-1/2" CALIPER, PRINCETON ELM TREE, AS PER PLAN	1225
																								3	3	661	40101	3	EACH	DECIDUOUS TREE, 2-1/2" CALIPER, FRONTIER ELM TREE GRATE, AS PER PLAN	1225
																							2	2	22	661	40101	22	EACH	DECIDUOUS TREE, 2-1/2" CALIPER, SKYLINE HONEYLOCUST, AS PER PLAN	1225
																							1	5	15	661	40101	15	EACH	DECIDUOUS TREE, 2-1/2" CALIPER, IVORY SILK JAPANESE LILAC TREE, AS PER PLAN	1225
																							1	77 17		661	50121	177	EACH	EVERGREEN TREE, 6' HEIGHT, WHITE SPRUCE, AS PER PLAN	1225
																									1	661	99900		EACH	PLANTING, MISC.: SKYLINE HONEYLOCUST (4" B&B)	1225
																											1			RETAINING WALLS FOR RETAINING WALLS GENERAL SUMMARY & MODULAR CONCRETE BLOCK WALL, SEE	+
																														SHEETS 1619-1620	上
																											+			BUILDING DEMOLITION	$+\!-$
																			LS					L	S	202	56000	LS		BUILDING DEMOLISHED: PARCEL #5 - 841 SOUTH BROADWAY, 2-STORY BRICK OFFICE/WAREHOUSE	63
																			LS					L	S	202	56000	LS		BUILDING DEMOLISHED: PARCEL #5A - 855 SWEITZER, BRICK OFFICE/WAREHOUSE	63
																			LS					L	S	202	56000	LS		BUILDING DEMOLISHED: PARCEL #57 - 66 WEST SOUTH, 2-STORY FRAME & GARAGE	63
							LS																	L	ς	SPECIAL	69098400	LS		MISC.: NOTIFICATION AND COORDINATION: PARCEL #5 - 841 SOUTH BROADWAY STREET	T 63
							LS								+											SPECIAL		LS		MISC: NOTIFICATION AND COORDINATION: PARCEL #5A - 855 SWEITZER AVENUE	63
							LS																			SPECIAL		LS		MISC.: NOTIFICATION AND COORDINATION: PARCEL #57 - 66 WEST SOUTH STREET	63
																														MISC.: ABATEMENT OF REGULATED UNIVERSAL AND HAZARDOUS MATERIAL/WASTE:	63
							LS																	L		SPECIAL SPECIAL		LS		PARCEL *5 - 841 SOUTH BROADWAY STREET MISC: ABATEMENT OF REGULATED UNIVERSAL AND HAZARDOUS MATERIAL/WASTE:	63
							LS																			SPECIAL	1	LS		PARCEL *5A - 855 SWEITZER AVENUE MISC.: ABATEMENT OF REGULATED UNIVERSAL AND HAZARDOUS MATERIAL/WASTE:	63
																										or zonne	00000100			PARCEL #57 - 66 WEST SOUTH STREET	
																														NOISE BARRIERS FOR NOISE BARRIERS GENERAL SUMMARY, SEE SHEET 815	$oxed{\pm}$
										+				-													+	+		STRUCTURES	+
																														FOR BRIDGE NO. SUM-76-1034 L/R ESTIMATED QUANTITIES, SEE SHEET 1242	
																														FOR BRIDGE NO. SUM-76-1041 L/R ESTIMATED QUANTITIES, SEE SHEET 1304	1
																														FOR BRIDGE NO. SUM-76-1043 ESTIMATED QUANTITES, SEE SHEET 1365	T
																														FOR BRIDGE NO. SUM-76-1044 ESTIMATED QUANTITIES, SEE SHEET 1394	
																														FOR BRIDGE NO. SUM-76-1051 ESTIMATED QUANTITIES, SEE SHEET 1426	
																														FOR BRIDGE NO. SUM-76-1075 ESTIMATED QUANTITIES, SEE SHEET 1468	
																														FOR BRIDGE NO. SUM-76-1085 ESTIMATED QUANTITIES, SEE SHEET 1510	
																														FOR BRIDGE NO. SUM-SOUTH-0036 ESTIMATED QUANTITIES, SEE SHEET 1545	
																														FOR BRIDGE NO. SUM-BARGE-0116 ESTIMATED QUANTITIES, SEE SHEET 1587	
																														DISTRIBUTE OF TOTAL	+
				+					+	500														E	00	410	12000	500	CY	MAINTENANCE OF TRAFFIC TRAFFIC COMPACTED SURFACE, TYPE A OR B	+
				+						500															00	410	13000	500	CY	TRAFFIC COMPACTED SURFACE, TYPE C	+
										100	450														50	611	97011	450	FT	SLOTTED DRAIN, TYPE 2, AS PER PLAN	68
MK 5/2/	/16 CR 3/16 RE	NOVE	/ER DR	AINAGE	-SLOT	TED DRA	AINS AN	ND CB-6	ADDED		2											$-\Gamma$		í	2	611	98371	2	EACH	CATCH BASIN, NO. 6, AS PER PLAN	68
MK   3/28/	IV. I IVE	. IVI U V L	TI LIVI J	· UN I	$\neg \cap \cup \vdash \vdash$	J I			1	1	2	1	1			1	1	1	1				1 1		1	611	99500	2	EACH	INLET, MISC.: REMOVE, PROTECT AND RECONSTRUCT BARRIER MEDIAN INLET	68

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CE - CS 4	12 43	44 45	46	47 48	49 50	0 55	63 64	65 66 67	7 68	87	312 325 328	336	355	356	367 368	369	370 699	851	970 1183	1237	01/IMS/PV 04/II	IS/ ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SHEE NO.
,5   9	12 43	77 73	40	47 40	43 30	33	03 04	03 00 07	00	07	312 323 320	330	333	330	307 300	303	310 033	031	310 1103	1231	OI/IMS/PV O1/A	(RN		TOTAL		MAINTENANCE OF TRAFFIC (CONT.)	<u>NO.</u>
								1500													1500	614	11110	1500	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
								40		25											40	614	11500	40	MNTH	WORKSITE TRAFFIC SUPERVISOR	
										25 -2											25 2	614 614	12336 12338	25 2	EACH FACH	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)  WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL)	_
								12													12	614	12410	12	EACH	SPEED ZONE AHEAD SYMBOL SIGN	丰
								LS													LS	614	12420	LS		DETOUR SIGNING	+
								12													12	614	12470	12	EACH	WORK ZONE SPEED LIMIT SIGN	
								12		1194											12 1194	614 614	12484 12800	12	EACH EACH	WORK ZONE INCREASED PENALTIES SIGN WORK ZONE RAISED PAVEMENT MARKER	+
							200		100	1194											300	614	13000	1194 300	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	+
										072											072	CIA	17700	072	FACU	DADDIED DEFLECTAD. TYPE D	1
										932											932	614	13300	932	EACH	BARRIER REFLECTOR, TYPE B	+-
										3											3	614	18000	3	EACH	MAINTAINING TRAFFIC, MISC.: TEMPORARY DRAINAGE OUTLET FOR MOT	71
								100	8	6.07											108 6.07	614 614	18601 20000	108 6.07	SNMT MILE	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN  WORK ZONE LANE LINE, CLASS I	67
										6.03											6.03	614	20001	6.03	MILE	WORK ZONE LANE LINE, CLASS I, AS PER PLAN	68
-										1.80											1.80	614	21000	1.80	MILE	WORK ZONE CENTER LINE, CLASS I	+
										14.88											14.88	614	22000	14.88		WORK ZONE EDGE LINE, CLASS I	
										23.12											23.12	614	22001	23.12		WORK ZONE EDGE LINE, CLASS I, AS PER PLAN	68
										5944 89088											5944 89088	614 614	23000 23001	5944 89088	FT FT	WORK ZONE CHANNELIZING LINE, CLASS I WORK ZONE CHANNELIZING LINE, CLASS I, AS PER PLAN	68
																					5.40						
										540 6905											540 6905	614 614	24200 24201	540 6905	FT FT	WORK ZONE DOTTED LINE, CLASS I, 642 PAINT  WORK ZONE DOTTED LINE, CLASS I, 642 PAINT, AS PER PLAN	68
										1136											1136	614	26000	1136	FT	WORK ZONE STOP LINE, CLASS I	
									20	35											35 20	614 614	30000 40051	35 20	EACH EACH	WORK ZONE ARROW, CLASS I BUSINESS ENTRANCE SIGN, AS PER PLAN	68
									20												20				LAUII		
								LS	5	16086											LS 16086	615 615	10000 20000	LS 16086	SY	ROADS FOR MAINTAINING TRAFFIC PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	67
										10000											10000	013	20000	10000	31	FAVEMENT FOR MAINTAINING TRAFFIL, CLASS A	+
								74	0												740	616	10000	740	MGAL	WATER	+
										53048											53048	622	41011	53048	FT	PORTABLE BARRIER, 50", AS PER PLAN	67
										755											755	622	41031	755	FT	PORTABLE BARRIER, 50", BRIDGE MOUNTED, AS PER PLAN	67
										2											2	625	10500	2	EACH	LIGHT POLE, MISC.: REMOVE, SALVAGE AND RE-ERECT MEDIAN LIGHT POLE WITH RECONSTRUCTION OF MEDIAN FOUNDATION	68
																							1				+
								156													156.0	630	07500	156.0	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, WIOX22	1
								320													3 320.0	630 630	75000 80200	320.0	EACH SF	SIGN ATTACHMENT ASSEMBLY SIGN, GROUND MOUNTED EXTRUSHEET	+
								320	.0	395.0											395.0	630	81304	395.0		SIGN ERECTED, TEMPORARY OVERLAY	
								8													8	630	84500	8	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	$\perp$
										,											1	630	85101	<b>,</b>	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION, AS PER PLAN	+
								10	)	'											12	630	85400	12	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	+
								18													18	630	86102	18	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	+
																											+
								9													9	630	86292	9	EACH	REMOVAL OF GROUND MOUNTED WOODEN BOX BEAM SUPPORT AND DISPOSAL	
								3													3	630	87400	3	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	+
										1											1	630	97700	1	EACH	SIGNING, MISC.: REMOVE, SALVAGE AND RE-ERECT CONCRETE MEDIAN BARRIER-MOUNTED MILE MARKER	68
																										INCIDENTAL S	+
																						SPECIAL	10810000	LS		CPM PROGRESS SCHEDULE	丰
	1	1																				614	11000	LS		MAINTAINING TRAFFIC	+
MK MS	5/2/16	BARRIEI TEMP.					)	-																	Initia		1.
MS	4/7/16	IMPACT	ATTEN	NUATOR	(UNI/BI)	QUANTI	ITY REVISI	ON H														619	16021	40	MNTH	FIELD OFFICE, TYPE C, AS PER PLAN	45
IEP IEP	3/30/16 2/12/16						REVISION	-														623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	1
<b>∟</b> 1	1 6/16/10	1 M.U. FL	OIN IVIO	. WUAINI	11 1/E V ]	TOTOIA		1 1 1																			- 1

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					601	606	606	606	606	609	609	622	622	622	622	622	622	622	622	622	622	622	622	622		FOR DEDUCT	INFO ONLY	
				OR O	z		PE 1	PE 2	3			OPE,	OPE,	OPE,	OPE,		LAN	LAN	, N		B	. B1	٠, ٢	0 3		NO NO	NOI	
					PROTECTION	S	, TYPE	, TYPE	TYPE 3			SLO	S	1 -	S	_	PER PL	ER PL	SECTION,	SECTION	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE	CONCRETE BARRIER, END ORAGE, REINFORCED, TYPE	N Y E	END , TYPE		FOUNDATION	TOWER FOUNDATION	<sub>⊢</sub>
		NO.		IMS/	)TEC	MG	BL Y	BLY,	<sup>™</sup>	٧-	ٻ	OLE	OLE .	GLE PLAN	GLE	NOI		S PER	) SE(		, El	7, EP	, EP		⊢ .	ONNO	OUN	.00°
				(017.) T/A		.YPE	ASSEMBLY	ASSEMBLY,	TOR ION	E 4-	- 6 -	, SINGLI B	, SINGLE B1	R, SINGLE S	SIN	TRANSITION	N, AS	N, AS	END B	END D	RIEF	RIEF	RCE 'LAN	'RIEF )RCE	INLE		R Fi	SUPPORT
		REFERENCE	STATION S	PARTICIPATION (01/IMS/PV 04/IMS/01/AKRN)	OPE	',	- AS	AS	r attenuator, 1 UNIDIRECTIONAL	TYPE	TYPE	ER,	BARRIER, TYPE B	IER,	BARRIER, SINGLE TYPE D	TRA	TRANSITION, A	TRANSITION, B	BARRIER TYPE E	BARRIER TYPE (	BAR INF(	BAR INFC	BAR INFO	BAR INF(	ER 1	POLE	OWE	N91
N N	LAN	ZEFE		ATI 1/IM	Z	ARDRAIL	IINAL	INAL	TTE	CURB,	curb,	BARRIER, TYPE	ARRI TY	ARRI C, /	ARRI T)	IER	ANSI	ISNY	JARF TY	3ARF TY	ETE , RE	ETE .	ETE REI S PI	ETE , RE	BARRIER	보		[S N
	<u> </u>	_		70 	ÆTE	UAR	TERMINAL	TERMINAL	ACT A UN	00	23	TE B,	— щ В	F B YPE	TE B,	BARRIER					NCRI AGE	NCR <sub>I</sub>	NCR AGE,	NCR. 'AGE	β	І СІСНТ	LIG	MEDIAN SIGN
				PAR	CONCRETE		0E	GE 1	IMP A(			CRE :	CONCRETE	CONCRETE BARRIER, TYPE C, AS F	CRE.		BARRIER	BARRIER	CONCRETE	NCRETE	_ <sup>으</sup> 뜻	S 뜻	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE AS PER PLAN	CONCRETE BARRIER, ANCHORAGE, REINFORCED		EDIAN	MEDIAN LIGHT	≥
					ŭ		BRIDGE	3RIDGE				NO S	NO CO	NO S	CON		BAR	BAR	00	00	ANG	ANC	ANC	ANC		ME	MEC	
			FROM TO		SY	FT	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	20 FT EA	8 FT EA	10 FT EA	10 FT EA
37	75	GR1	<i>I.R. 76</i> 454+39.50 455+00.00 LT	01/IMS/PV	<b>-</b>	62.5		1																				
3		GR2	454+13.10 455+00.00 RT	01/IMS/PV		62.5	1	,																				
37	75	CB1	455+00.00 455+30.59 LT	01/IMS/PV											1.6					1				1				
37		CB2 CB3	455+00.00 455+45.00 RT 455+30.59 458+50.00 LT	01/IMS/PV 01/IMS/PV										270.5	16.1		1			1			1	1	1			
	17	רםט	430T0U,UU LI	01/11/13/17										210.3			,						1					
37		CB4	455+00.00 458+50.00 MED	01/IMS/PV									189.0			1						7			1	2		
37		CB5 CB3	455+45.00 458+50.00 RT 458+50.00 465+00.00 LT	01/IMS/PV 01/IMS/PV										206.0 550.0			1						3		2			
37		CB4	458+50.00 468+50.00 MED	01/IMS/PV 01/IMS/PV									737.0	330.0								11	4		3	1	2	1
37		CB5	458+50.00 458+53.33 RT	01/IMS/PV										3.4												-	_	
37	78	CB4	468+50.00 473+44.36 MED	01/IMS/PV	<b> </b>								354.4									6			2		1	
37		CB6	469+54.00 473+74.36 MED	01/IMS/PV									354.4		320.4							0		4	2		1	
37	78	CB7	476+01.68 478+50.00 LT	01/IMS/PV											233.4									1				
37		CB8	475+71.69 478+50.00 MED 475+30.90 478+50.00 RT	01/IMS/PV									238.4		25.4.1							2		3	1		1	
37	18	CB9	475+30.90 478+50.00 RT	01/IMS/PV											254.1									3	/			
37		EC1	473+33.27 474+13.55 RT/LT	01/IMS/PV	54.7																							
37		EC1A	473+33.27 474+13.55 RT/LT	01/IMS/PV	394.2																							
37		EC2 EC2A	474+91.05 475+69.43 RT/LT 474+91.05 475+69.43 RT/LT	01/IMS/PV 01/IMS/PV	53.1 263.8							-		-					-	-								
37		CB7	478+50.00 479+88.75 LT	01/IMS/PV											123.8									1				
S	70	CDO	470,50,00,470,50,45	01/11/0 /01/									60.5														,	
od 37		CB8 CB9	478+50.00 479+59.45 MED 478+50.00 479+24.92 RT	01/IMS/PV 01/IMS/PV									69.5		60.0							2		1			1	
37	79	CB10	482+64.18 482+65.98 LT	01/IMS/PV											1.9													
37		CB11	482+34.88 488+50.00 MED	01/IMS/PV									485.2					,				6			1		2	
≥ 37	19	CB29	482+65.98 483+55.36 LT	01/IMS/PV	-													+ '										
37		CB12	483+55.36 488+50.00 LT	01/IMS/PV								389.7									5				1			1
30 3		C94	482+06.85 482+30.40 RT	01/IMS/PV						23.6	76.0																	
37		C95 EC3	482+30.40 483+07.31 RT 479+53.32 480+28.15 RT/LT	01/IMS/PV 01/IMS/PV	49.3						76.9									<del>                                     </del>								
37		EC4	481+64.38 482+30.52 RT/LT	01/IMS/PV	47.5																							
200	01	CD11	100+50 00 100+50 00 1450	OLVING ADV									670.0									10					2	,
	81 81	CB11 CB12	488+50.00 498+50.00 MED 488+50.00 489+80.37 LT	01/IMS/PV 01/IMS/PV								130.4	630.0	+						+		16			5		2	<u>'</u>
g 38	81	CB13	489+90.45 490+23.43 LT	01/IMS/PV											3.0									2				
N	81	CB14	489+80.37 491+55.00 LT 490+60.00 491+36.00 RT	01/IMS/PV					1			59.7			16.0				1		3			2	2			
	81	CB15	490+60.00 491+36.00 RT	01/IMS/PV											46.0									2				
3692	81	CB16	490+23.43 493+64.33 LT	01/IMS/PV										280.9			1						6		3			
	81	CB17	491+36.00 495+16.76 RT	01/IMS/PV										320.8	077		2						6		3			
- 23	81 81	CB18 CB19	493+64.33 498+50.00 LT 495+16.76 498+50.00 RT	01/IMS/PV 01/IMS/PV									-	358.2 234.0	87.7 79.4		1			-				<u>6</u> 2	3			
She		CB20	NOT USED																									
× dy		CD31	NOT LICED														,											
рб <u>з</u>	81	CB21 EC4A	NOT USED 493+72.90 494+41.70 LT	01/IMS/PV	13.3												1											
38	81	EC4B	495+20.52 495+87.79 RT	01/IMS/PV	10.5																							
38		CB11	498+50.00 507+19.85 MED	01/IMS/PV									534.9	00.0	250.0	1	,	VAIV	F /2 /10	LOTY DELT	כבט בטטיי פ	15 15 D1 END AN	ICHODACE	7	2	5		1
<u>56</u> <u>38</u>	02	CB18	498+50.00 501+65.00 LT	01/IMS/PV										88.8	250.0		1	KMK		_	SED-FROM B SIONS PER CF			3				
. <u>s</u> 38	82	CB19	498+50.00 507+19.85 RT	01/IMS/PV										89.3	754.9		1	REV. B	Y DATE		DESCRI			5	2			
₩\		CB22	NOT USED															DATE C	OMPLETED	)	1							
ects			SUBTOTAL		886.4	125.0	1	1	1	23.6	76.9	579.8	3238.4	2401.9	2232.3	2	10	1	1	2	8	65	20	32				
Proj		S	JBTOTAL (CARRIED TO SHEET 312	)	886	125.0	1	1	1	24	77	580	3238	2402	2232	2	10	1	1	2	8	65	20	32				
?  L					I ""	1	1 '	· ·	1 '		I	I TTT	1 223	I		_	i	I .	1	I -	ı	ı	ı -		1	1		ı I

SUBSUMMARY

ROADWAY

SUM-76-10.00

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	SHEET NUMBER							PARTICIPATION	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET
304	305	306	307	308	309	310	311	01/IMS/PV		TOTAL	UNII	DESCRIPTION	NO.
												ROADWAY	110.
125.0	1662.5	150.0	275.0	137.5	12.5			2362.5	606	2362.5	FT	GUARDRAIL, TYPE MGS	
	200							200	606	200	FT	GUARDRAIL, TYPE MGS, 25' LONG-SPAN	
	2	2	1	2	1			8	606	8	EACH	ANCHOR ASSEMBLY, TYPE E	
1	5 4	2	2	3	1			9	606 606	9	EACH EACH	ANCHOR ASSEMBLY, TYPE T BRIDGE TERMINAL ASSEMBLY, TYPE 1	
1	- 4	2		4	l			14	000	14	EACH	DRIDGE TERMINAL ASSEMBLT, TITE T	
1	3			1				5	606	5	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2	
1								1	606	1	EACH	IMPACT ATTENUATOR, TYPE 3 UNIDIRECTIONAL	
	1							1	606	1	EACH	IMPACT ATTENUATOR, TYPE 3 UNIDIRECTIONAL, AS PER PLAN	
		0.007	4689		2198	1084	1110	9081	608	9081	SF	4" CONCRETE WALK	
		21297	20351	11735	11552	10275	1358	76568 7	608	76568	SF	6" CONCRETE WALK	
		1284	1879	1096	2708	7 391		7358	608 608	7 7358	FT SF	CONCRETE STEPS, TYPE A CURB RAMP, AS PER PLAN A	
		1204	1013	345	2100	231		345	608	345	SF	CURB RAMP, AS PER PLAN B	
				3 10				3 10	000	3 10	31	COND WAINING AS FER FEAR B	
		552			367		196	1115	608	1115	SF	CURB RAMP, AS PER PLAN C	
		317				1317		1634	608	1634	SF	CURB RAMP, AS PER PLAN D	
	-	204		457				661	608	661	SF	CURB RAMP, AS PER PLAN E	
		88	189			138		415	608	415	SF	CURB RAMP, AS PER PLAN F	
		356	210					566	608	566	SF	CURB RAMP, TYPE B1	
		9220	11708	2010	7843	4585	447	35813	608	35813	SF	WALKWAY, MISC.: 6" DECORATIVE CONCRETE WALK	
		3220	11108	2010	1043	941	441	35813 941	608	941	SF	WALKWAY, MISC.: 8" DECORATIVE CONCRETE WALK WALKWAY, MISC.: 8" DECORATIVE CONCRETE WALK	
						341		341	000	341	اد	WALKWAT, WISC. O DECONATIVE CONCINETE WALK	
580			92					672	622	672	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE B	
3238								3238	622	3238	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE B1	
2402	287	686						3375	622	3375	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C, AS PER PLAN	
2232	1170	93	288					3783	622	3783	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D	
			456					456	622	456	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN A	
			20					20	600	20		CONCRETE DADRIED CINCLE CLODE TYPE D. AC DED DLAN D.	
			20		12			20 12	622 622	20 12	FT FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN B CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN C	
2					12			2	622	2	EACH	BARRIER TRANSITION	
10		2						12	622	12	EACH	BARRIER TRANSITION, AS PER PLAN A	
1								1	622	1	EACH	BARRIER TRANSITION, AS PER PLAN B	
			1					1	622	1	EACH	BARRIER TRANSITION, AS PER PLAN C	
1								1	622	1	EACH	CONCRETE BARRIER END SECTION, TYPE B	
2	2	1						5 8	622 622	5 8	EACH	CONCRETE BARRIER END SECTION, TYPE D CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B	
8 65								8 65	622	65	EACH EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B  CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B1	
UJ								0.0	022	05	LACH	CONTINUE DANNIEN, END ANGIONAUL, NEIN ONGED, TIFE DI	
20	2	4						26	622	26	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C, AS PER PLAN	
32	11	5	4					52	622	52	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	
			7					7	622	7	EACH	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN	
	100:							400.4	20:	400:		EROSION CONTROL	
000	1264	700	1026	24				1264	601	1264	SY SY	CRUSHED AGGREGATE SLOPE PROTECTION	
886	1544	389	1026	24				3869	601	3869	51	CONCRETE SLOPE PROTECTION	
												PAVFMFNT	
						971		971	609	971	FT	COMBINATION CURB AND GUTTER, TYPE 2	
						101		101	609	101	FT	COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN	
	764	526		216	1093		140	2739	609	2739	FT	CURB, TYPE 2-A	
						238		238	609	238	FT	COMBINATION CURB AND GUTTER, TYPE 3, AS PER PLAN A	
						251		251	609	251	FT	COMBINATION CURB AND GUTTER, TYPE 3, AS PER PLAN B	
24	470	7.5						070	600	070		CUIDD TYPE 4.4	
24 77	179 69	35						238 146	609 609	238 146	FT FT	CURB, TYPE 4-A CURB, TYPE 4-C	
1.1	03	8463	8722	1806	3348	1975	438	24752	609	24752	FT	CURB, TYPE 4-C	
		COPO	391	1000	107	1313	7,0	498	609	498	FT	CURB, TYPE 7	
					101			100		1.00			
										NOTE:	TOTALS	CARRIED TO GENERAL SUMMARY	

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SUBSUMMARY ROADWAY

DESCRIPTION

KMK 5/2/16 QTY REVISED-FROM B TO BI END ANCHORAGE
KMS 4/7/16 QUANTITIES UPDATED PER CROSS SECTION REVISONS

SUM-76-10.00 REV. BY DATE

DATE COMPLETED

	ITEM ODOT	EXT.	PARTICIPATION 02/IMS/BR	TOTAL	UNIT	DESCRIPTION	MSE WALL 1	WALL 2	MSE WALL 3	MSE WALL 4	MSE WALL 5	MSE WALL 6	MSE WALL 7	MSE WALL 8	WALL 9	WALL 10	WALL 11	MODULAR BLOCK WALL	REF. SHEET
	517	75120	416	416	FT	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING)									416				
	517	76300	124	124	FT	RAILING, MISC.: REATTACH EXISTING HANDRAIL		124											(626) (822)
	518	21200	298	298	СҮ	POROUS BACKFILL WITH FILTER FABRIC									26	272			
	518	40000	730	730	FT	6" PERFORATED CORRUGATED PLASTIC PIPE									416	314			
	518	40010	61	61	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS									50	11			
	524	94703	445	445	FT	DRILLED SHAFTS, 36" DIAMETER, ABOVE BEDROCK, AS PER PLAN									445				(676) (822)
	524	94803	405	405	FT	DRILLED SHAFTS, 42" DIAMETER, ABOVE BEDROCK, AS PER PLAN									405				(1676) (1822)
	524	94903	465	465	FT	DRILLED SHAFTS, 48" DIAMETER ABOVE BEDROCK, AS PER PLAN									465				(676) (822)
	524	94915	609	609	FT	DRILLED SHAFTS, 60" DIAMETER, ABOVE BEDROCK, AS PER PLAN									609				(676) (822)
	524	94919	136	136	FT	DRILLED SHAFTS, 60" DIAMETER, INTO BEDROCK, AS PER PLAN									136				(676) (822)
																			(CIA
oppes	SPECIAL	53013000	6,720	6,720	SF	FORM LINER									6720				(16.16)
kyle_k	601	37500	380	380	FT	PAVED GUTTER, TYPE 1-2			79	96	60	42		103					
AM	607	39920	559	559	FT	VANDAL PROTECTION FENCE, 10' CURVED, COATED FABRIC					394		165						
11:53:18																			
, 2016	SPECIAL	61050010	309	309	SF	RETAINING WALL, MISC.: MODULAR CONCRETE BLOCK WALL												309	(845) (822)
4/28/	SPECIAL	61060000	LS	LS		RETAINING WALL, MISC.: TEMPORARY WIRE FACED MSE WALL			LS	LS		LS	LS						(617) & (618) (1822) & (1822)
ngb.	040	20000	20, 200	00.000	C.F.	MECHANICALLY CTARLITIES FARTH WALL	C 400		4770	4077	0007	170.40	74004	4000			0710		REVISE
1EQ002	840	20000	80,889	80,889	SF	MECHANICALLY STABILIZED EARTH WALL	6488		4336	4977	9997	13849	34024	4900			2318		OUANTITIES
.01\Sheets\77269W1EQ002.	840	21000	27,900	27,900		WALL EXCAVATION FOUNDATION PREPARATION	1625		2926	5448 804	2175	4627	8915	1558 641			626		OO
eets/7	840	22000	8,079	8,079	SY		750		798	004	1088	1735	3720	041			278		AMETER -
	840	22001	1,735	1,735	SY	FOUNDATION PREPARATION, AS PER PLAN	2582		7054	4722	4000		27020	5536			1100		DIAME REVI
S\Wall	840	23000	60,848	60,848	CY	SELECT GRANULAR BACKFILL			3854	4322	4909	10891	27628				1126		16 DRILLED SHAFTS, 60" DIAMETER 16 FORM LINER QUANTITY REVISIÓN E DESCRIPTION
JCTURE	840	25010  25020	8,222 471	8,222 471	FT FT	6" DRAINAGE PIPE, PERFORATED	920		586	578 45	1150 60	1340	2821 77	462 10			365		SHAFT VER OU
y\STRU	840					6" DRAINAGE PIPE, NON-PERFORATED	25						1448				69		ILLED NRM LIN
Broadway\STRUCTURES\Wall_	840	26000	4,166	4,166	FT SF	CONCRETE COPING  AESTHETIC SUPERCE TREATMENT	450		295 4336	300 4977	593	653	34024	246 4900			181		16 DR 16 FC
s>Main Br	840	26050	80,889	80,889		AESTHETIC SURFACE TREATMENT	6488				9997						2318		4728/ 4721/ <b>DAT</b>
jects∖∧	840	27000	13	13	DAY	ON-SITE ASSISTANCE			2	2		2	3	1			1		DEB DEB DEB DEB DATE COMI
Pro	840	28000	LS	LS		SGB INSPECTION AND COMPACTION TESTING	LS		LS	LS	LS	LS	LS	LS			LS		REV

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SUM-76-10.00

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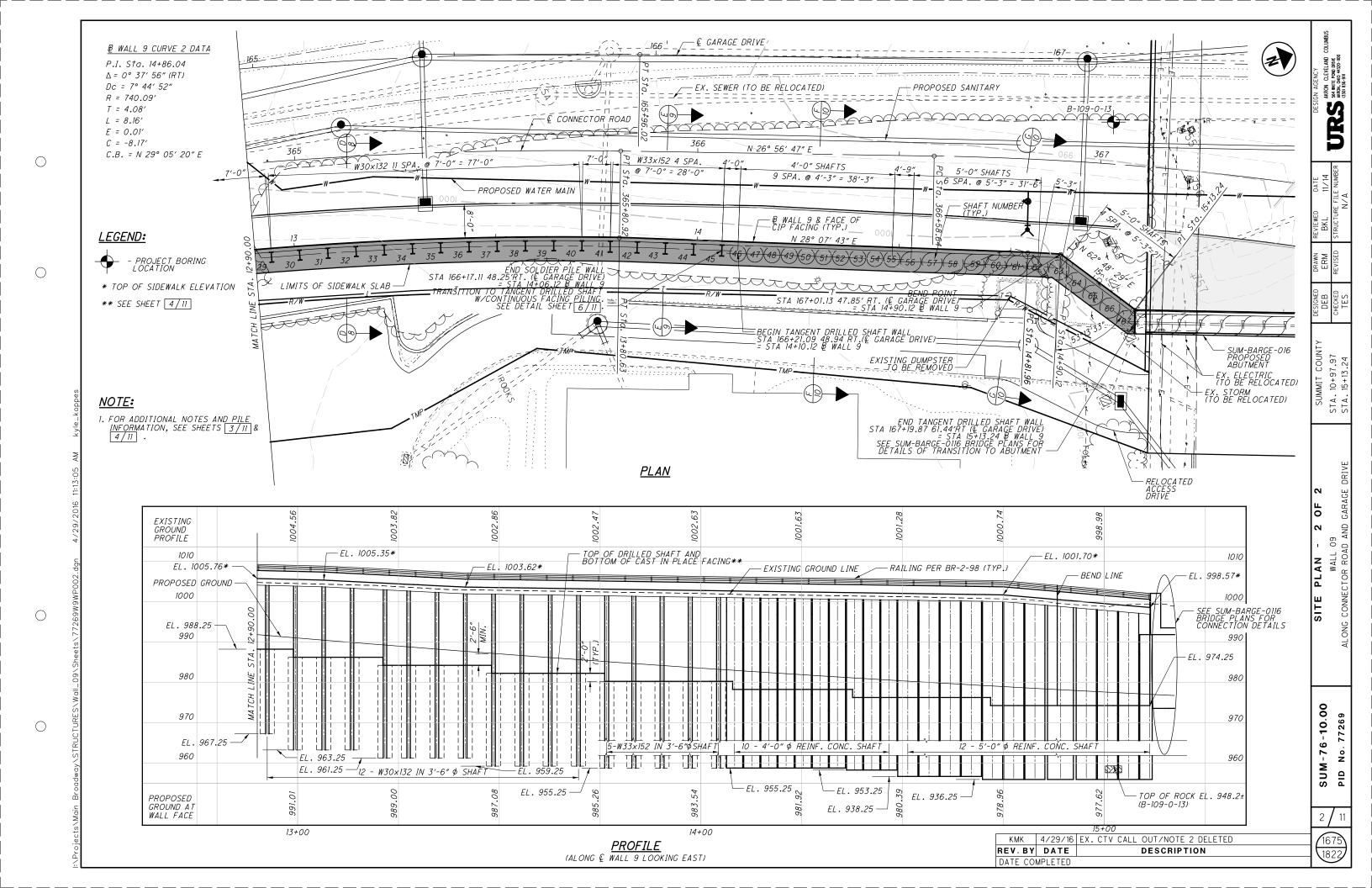
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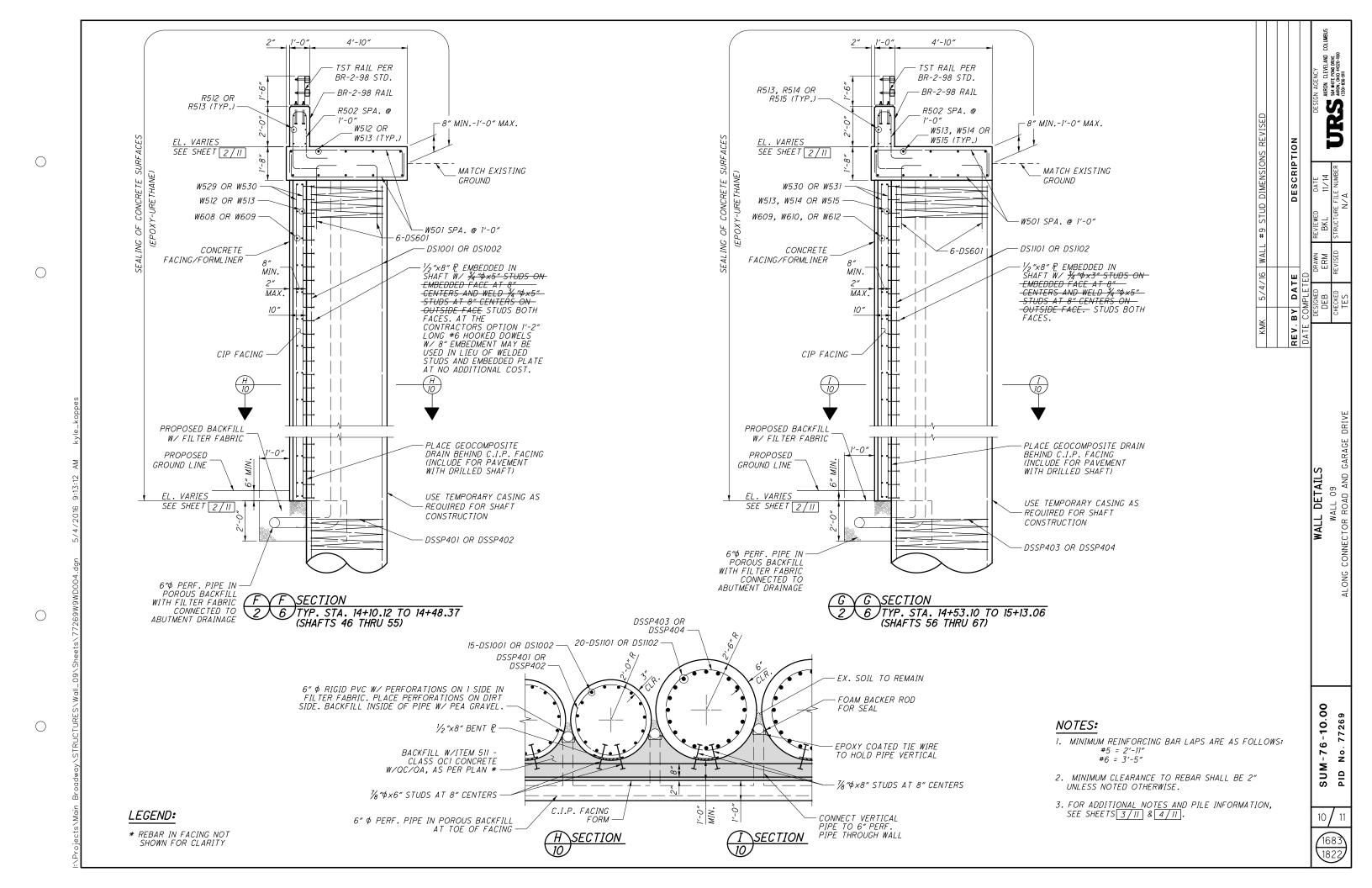
7

QUANTITIES

WALL ESTIMATED

1620

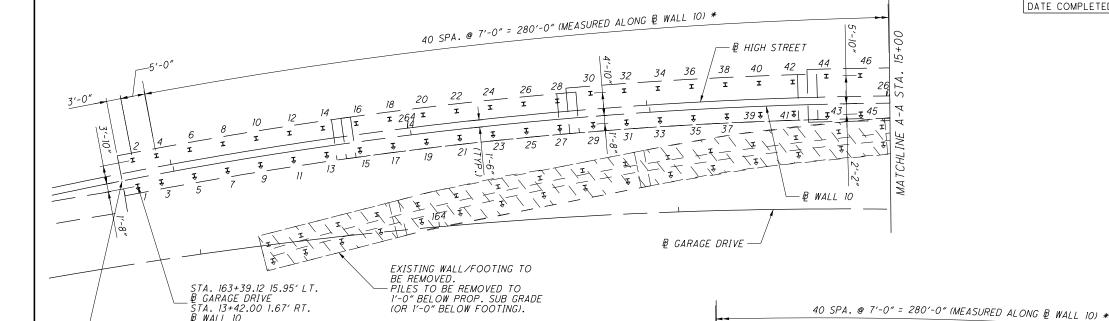








-5'-45/8"



₽ HIGH STREET 15 2 48 T 54 59 61 63 I 60 र B WALL 10 165 166 ₽ GARAGE DRIVE STA. 166+28.29 23.55' LT. ₽ GARAGE DRIVE FOUNDATION PLAN STA. 16+35.39 ₿ WALL 10

29-42	989.25	958.0±	<i>35′</i>
43-56	986.00	948.0±	40′
57-83	983.00	948.0±	<i>35′</i>

PILING TABLE

ELEVATION

995.75

992.50

PILE CUTOFF EST. PILE TIP ESTIMATED

ELEVATION

960.0±

958.0±

LENGTH

35'

## **LEGEND:**

PILE NO.

15-28

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

PROPOSED H PILE

-STA. 163+36.11 17.51' LT. & GARAGE DRIVE STA. 13+39.00 & WALL 10

- PROPOSED H PILE BATTERED 3:1 IN DIRECTION SHOWN
- PILE INDENTIFICATION NUMBER
- = DENOTES EX. PILE TO BE INCORPORATED IN PROPOSED FOOTING, SEE SHEET 3/12 FOR NOTES.



LIMITS OF EXISTING WALL AND FOOTING REMOVAL

\* PILE SPACING MEASURED RADIALLY ALONG BASELINE

## **NOTES:**

- ALL PROPOSED PILES SHALL BE HP 10x42.
- LOCATION OF THE EXISTING PILES ARE BASED ON THE EXISTING PLANS. THESE LOCATIONS SHOULD BE CONSIDERED APPROXIMATE AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- THE EXISTING STRUCTURE SHALL BE REMOVED AS PER ODOT ITEM 202 EXCEPT WHERE COMPLETE REMOVAL IS NECESSARY TO AVOID CONFLICT WITH THE PROPOSED STRUCTURE. PAYMENT FOR ALL STRUCTURE REMOVAL SHALL BE INCLUDED WITH ITEM 202 - PORTIONS OF STRUCTURE REMOVED AS PER PLAN.
- 4. PILE CUT OFF ELEVATION EQUALS THE BOTTOM OF FOOTING PLUS 1'-0" EMBEDMENT.
- FOR ADDITIONAL PILE INFORMATION, SEE WALL GENERAL NOTES SHEETS (1616) THRU (1618) (1822)
- INCORPORATE EXISTING PILES INTO PROPOSED FOOTING WHERE SHOWN BASED ON EXISTING ELEVATIONS AND MIN. DISTANCE OF 1'-6" FROM CENTER OF PILE TO EDGE OF FOOTING, AS SHOWN IN THE FOUNDATION PLAN.
- PROPOSED PILES MAY BE ADJUSTED 1'-0" MAXIMUM LATERALLY TO AVOID INTERFERENCE WITH EXISTING PILES. NOTIFY THE ENGINEER OF ADJUSTMENTS EXCEEDING 1'-0" FOR HIS APPROVAL PRIOR TO DRIVING PILES.

## **TEMPORARY SHORING NOTES:**

- 1. SHEET PILING FOR TEMPORARY SHORING AT WALL 10 SHALL BE ASTM A572 GR 50 STEEL WITH A MINIMUM SECTION MODULUS OF 69.3 IN /FT. A MINIMUM EMBEDMENT OF 30.0' BELOW THE BOTTOM OF EXCAVATION AND A MAXIMUM RETAINED HEIGHT OF 20.5'.
- 2. LIMITS OF THE TEMPORARY SHORING SHALL AT A MINIMUM BE AS SHOWN IN THE PLAN VIEW.
- 3. THE DESIGN SHOWN ON THE PLANS FOR TEMPORARY SUPPORT OF EXCAVATION IS ONE REPRESENTATIVE DESIGN THAT MAY BE USED TO CONSTRUCT THE PROJECT. THE CONTRACTOR MAY CONSTRUCT THE DESIGN SHOWN ON THE PLANS OR PREPARE AN ALTERNATE DESIGN TO SUPPORT THE SIDES OF EXCAVATIONS. IF CONSTRUCTING AN ALTERNATE DESIGN FOR TEMPORARY SUPPORT OF EXCAVATION, PREPARE AND PROVIDE PLANS IN ACCORDANCE WITH C&MS 501.05. THE DEPARTMENT WILL PAY FOR THE TEMPORARY SUPPORT OF EXCAVATION AT THE CONTRACT LUMP SUM PRICE FOR COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN. NO ADDITIONAL PAYMENT WILL BE MADE FOR PROVIDING AN ALTERNATE DESIGN.

1688 1822

PLAN

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PID

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