

**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 10 M. GAL

**ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS**

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

- THE SET-UP OF LANE RESTRICTIONS FOR PRE-PHASE 1 AND PRE-PHASE 2
- DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE FOR PHASE 1 AND PHASE 2.

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF 600 TEMPORARY TRAFFIC CONTROL TRAFFIC ENG. MANUAL REVISED JULY 20, 2018 OCTOBER 23, 2002 6-167 THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER 60 HOURS  
WITH PATROL CAR FOR ASSISTANCE

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

**ITEM 202, FENCE REMOVED FOR REUSE, AS PER PLAN**  
THIS ITEM SHALL BE USED TO REMOVE THE FENCE, STORE THE FENCE, PROVIDE TEMPORARY FENCE UNTIL THE ROCK CHANNEL PROTECTION IS PLACED, AND RE-ERECT THE ORIGINAL FENCE AFTER WORK IS COMPLETED AT BRIDGE CUY-014-06.70. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIAL SHALL BE INCLUDED IN ITEM 202 - FENCE REMOVED FOR REUSE, AS PER PLAN.



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MAINTENANCE OF TRAFFIC GENERAL NOTES

CUY-14-6.20/6.70

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SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
4	5	6	11	12	23	24	01/BRO/B R	EXT	TOTAL								
<b>ROADWAY</b>																	
LS							LS	201	11000	LS		CLEARING AND GRUBBING					
1							1	201	21800	1	EACH	TREE REMOVED, 18"					
3							3	201	23000	3	EACH	TREE REMOVED, 30"					
							2,833	202	23001	2,833	SY	PAVEMENT REMOVED, AS PER PLAN					
			4,234				4,234	202	30000	4,234	SF	WALK REMOVED					
			767				767	202	32000	767	FT	CURB REMOVED					
			268				268	202	38000	268	FT	GUARDRAIL REMOVED					
			23				23	202	75000	23	FT	FENCE REMOVED					
			28				28	202	75201	28	FT	FENCE REMOVED FOR REUSE, AS PER PLAN					
			LS				LS	202	98000	LS		REMOVAL MISC.:WINGWALL PIPE RAIL					
					187	166		203	10000	353	CY	EXCAVATION					
						40		203	20000	40	CY	EMBANKMENT					
1,035							1,035	203	35110	1,035	CY	GRANULAR MATERIAL, TYPE B					
LS							LS	203	98500	LS		ROADWAY, MISC.:MILL CREEK INTERCEPTOR SEWER PRE AND POST CONSTRUCTION VIDEO					
				2,840			2,840	204	10000	2,840	SY	SUBGRADE COMPACTION					
	2						2	204	45000	2	HOUR	PROOF ROLLING					
			250				250	606	15051	250	FT	GUARDRAIL, TYPE MGS, AS PER PLAN					
			3				3	606	26100	3	EACH	ANCHOR ASSEMBLY, TYPE E					
			5				5	606	26500	5	EACH	ANCHOR ASSEMBLY, TYPE T					
			4				4	606	35002	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1					
			4				4	606	35100	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2					
			4,370				4,370	608	10000	4,370	SF	4" CONCRETE WALK					
<b>EROSION CONTROL</b>																	
					161	118		601	32011	279	CY	ROCK CHANNEL PROTECTION, TYPE A WITH AGGREGATE FILTER, AS PER PLAN					
74							74	659	00300	74	CY	TOPSOIL					
655							655	659	10000	655	SY	SEEDING AND MULCHING					
0.09							0.09	659	20000	0.09	TON	COMMERCIAL FERTILIZER					
4							4	659	35000	4	MGAL	WATER					
						28	2,000	832	30000	2,000	EACH	EROSION CONTROL					
							28	838	20700	28	CY	GABIONS					
<b>DRAINAGE</b>																	
	20						20	611	00900	20	FT	6" CONDUIT, TYPE B					
	20						20	611	01100	20	FT	6" CONDUIT, TYPE C					
			2				2	611	99654	2	EACH	MANHOLE ADJUSTED TO GRADE					
	200						200	SPECIAL	61199820	200	LB	MISCELLANEOUS METAL					
<b>PAVEMENT</b>																	
			474				474	304	20000	474	CY	AGGREGATE BASE					
			2,840				2,840	305	13010	2,840	SY	9" CONCRETE BASE, CLASS QC1					
			143				143	407	10000	143	GAL	TACK COAT					
			214				214	407	13900	214	GAL	TACK COAT, 702.13					
			99				99	441	50101	99	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, PG 70-22M					
			139				139	441	50300	139	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)					
			767				767	609	26000	767	FT	CURB, TYPE 6					
<b>WATER WORK</b>																	
			2				2	638	10400	2	EACH	FIRE HYDRANT ADJUSTED TO GRADE					
			2				2	638	10800	2	EACH	VALVE BOX ADJUSTED TO GRADE					
<b>TRAFFIC CONTROL</b>																	
			16				16	626	00116	16	EACH	BARRIER REFLECTOR, TYPE 5 (BIDIRECTIONAL)					
			5				5	630	85100	5	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION					
			0.26				0.26	642	00194	0.26	MILE	LANE LINE, 6"					
			0.13				0.13	642	00290	0.13	MILE	CENTER LINE					
											<b>STRUCTURE OVER 20 FOOT SPAN (CUY-14-0620)</b>		33				
											<b>STRUCTURE OVER 20 FOOT SPAN (CUY-14-0670)</b>		52				

**GENERAL SUMMARY**

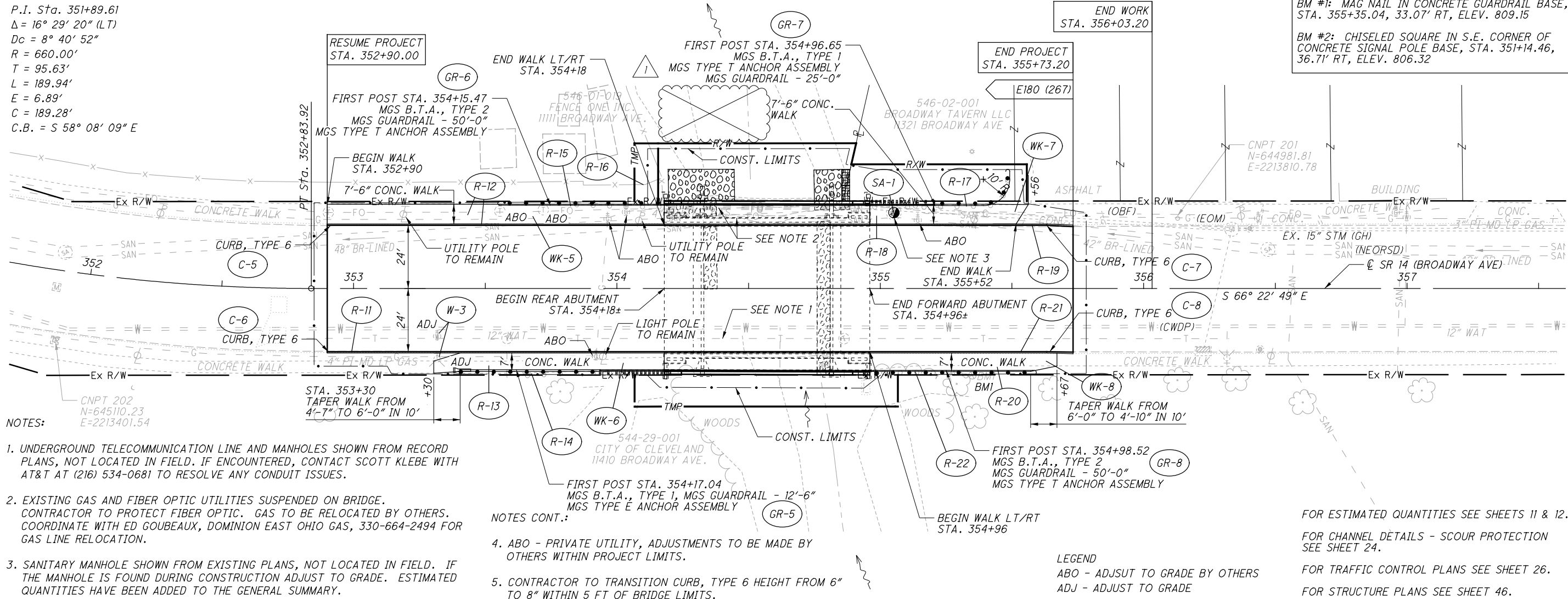
**CUY - 14 - 6 . 20 / 6 . 70**

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REF NO.	SHEET NO.	STATION TO STATION		202	202	202	202	202	202		606	606	606	606	606	611		638	638				
				WALK REMOVED	CURB REMOVED	GUARDRAIL REMOVED	FENCE REMOVED	REMOVAL MISC.: WINGWALL PIPE RAIL	FENCE REMOVED FOR REUSE, AS PER PLAN		GUARDRAIL, TYPE MGS, AS PER PLAN	ANCHOR ASSEMBLY, TYPE E	ANCHOR ASSEMBLY, TYPE T	BRIDGE TERMINAL ASSEMBLY, TYPE 1	BRIDGE TERMINAL ASSEMBLY, TYPE 2	MANHOLE ADJUSTED TO GRADE	FIRE HYDRANT ADJUSTED TO GRADE	VALVE BOX ADJUSTED TO GRADE					
			TO	SF	FT	FT	FT	LS	FT		FT	EACH	EACH	EACH	EACH	EACH		EACH	EACH				
		CUY-14-0620																					
R-1	13	328+14.00	329+13.00	674																			
R-2	13	328+64.85	329+25.00	420	60																		
R-3	13	328+64.85	329+13.00		48																		
R-4	13	328+81.00	329+04.00				23																
R-5	13	329+00.00	329+03.00					LS															
R-6	13	329+67.00	330+33.00	379																			
R-7	13	329+67.00	331+13.20		147																		
R-8	13	330+11.00	330+99.00	630																			
R-9	13	330+11.00	331+13.20		102																		
R-10	13	330+19.00	330+96.00			77																	
GR-1	13	328+19.87	329+12.40							12.5	1		1										
GR-2	13	328+69.36	329+34.36							50		1		1									
GR-3	13	329+56.88	330+21.88							50		1		1									
GR-4	13	330+12.54	330+92.57								1		1										
W-1	13	328+37.00																					
W-2	13	328+59.00																					
ST-1	13	330+67.00													1								
		CUY-14-0670																					
R-11	14	352+90.00	354+18.00		128																		
R-12	14	352+90.00	354+18.00	963	128																		
R-13	14	353+30.00	354+18.00	396																			
R-14	14	353+61.00	354+19.00			58																	
R-15	14	353+81.00	354+19.00			38																	
R-16	15	354+13.00	354+18.00						28														
R-17	14	354+96.00	355+49.00			58																	
R-18	14	354+96.00	355+52.00	428																			
R-19	14	354+96.00	355+73.20		77																		
R-20	14	354+96.00	355+67.00	344																			
R-21	14	354+96.00	355+73.20		77																		
R-22	14	354+98.00	355+36.00			37																	
GR-5	14	353+27.97	354+20.50							12.5	1		1										
GR-6	14	353+55.49	354+20.49							50		1		1									
GR-7	14	354+93.49	355+39.14							25		1		1									
GR-8	14	354+93.50	355+58.50							50		1		1									
W-3	14	353+33.00																					
SA-1	14	355+06.00													1								
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				4234	767	268	23	LS			250	3	5	4	4	2		2	2				

CALCULATED ASW CHECKED AKL	ROADWAY SUBSUMMARY	CUY - 14 - 6.20 / 6.70	12 74
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P.I. Sta. 351+89.61  
 $\Delta = 16^\circ 29' 20''$  (LT)  
 $D_c = 8^\circ 40' 52''$   
 $R = 660.00'$   
 $T = 95.63'$   
 $L = 189.94'$   
 $E = 6.89'$   
 $C = 189.28'$   
 $C.B. = S 58^\circ 08' 09'' E$



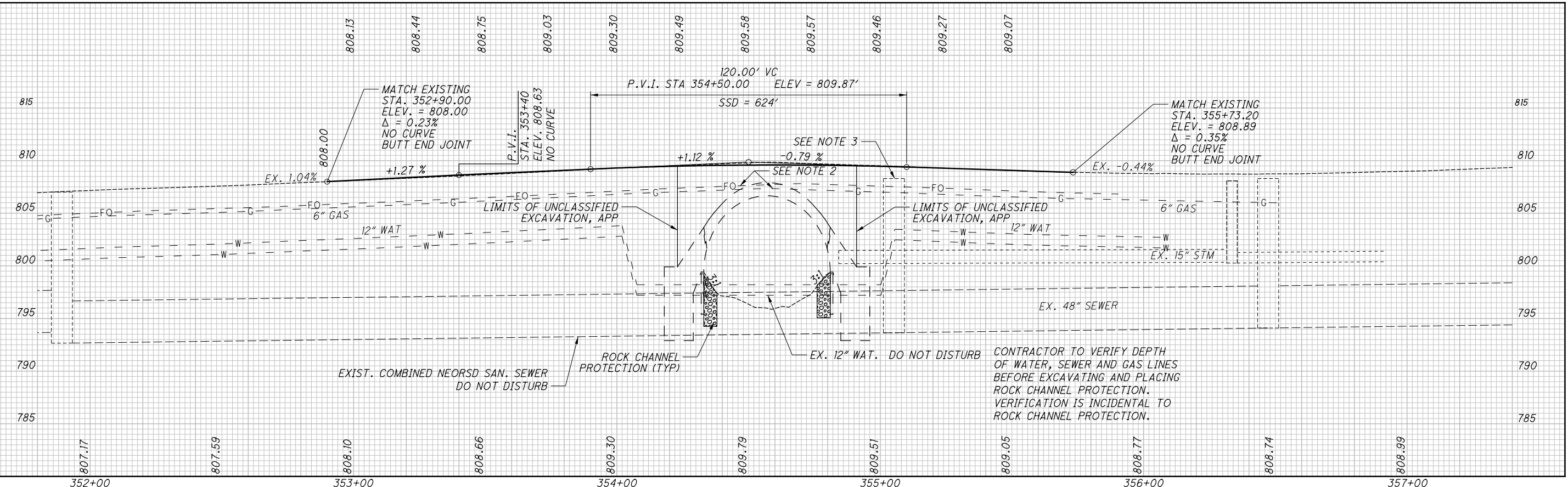
NOTES:  
 1. UNDERGROUND TELECOMMUNICATION LINE AND MANHOLES SHOWN FROM RECORD PLANS, NOT LOCATED IN FIELD. IF ENCOUNTERED, CONTACT SCOTT KLEBE WITH AT&T AT (216) 534-0681 TO RESOLVE ANY CONDUIT ISSUES.  
 2. EXISTING GAS AND FIBER OPTIC UTILITIES SUSPENDED ON BRIDGE. CONTRACTOR TO PROTECT FIBER OPTIC. GAS TO BE RELOCATED BY OTHERS. COORDINATE WITH ED GOUBEUX, DOMINION EAST OHIO GAS, 330-664-2494 FOR GAS LINE RELOCATION.  
 3. SANITARY MANHOLE SHOWN FROM EXISTING PLANS, NOT LOCATED IN FIELD. IF THE MANHOLE IS FOUND DURING CONSTRUCTION ADJUST TO GRADE. ESTIMATED QUANTITIES HAVE BEEN ADDED TO THE GENERAL SUMMARY.

NOTES CONT.:

- 4. ABO - PRIVATE UTILITY, ADJUSTMENTS TO BE MADE BY OTHERS WITHIN PROJECT LIMITS.
- 5. CONTRACTOR TO TRANSITION CURB, TYPE 6 HEIGHT FROM 6" TO 8" WITHIN 5 FT OF BRIDGE LIMITS.

LEGEND  
 ABO - ADJUST TO GRADE BY OTHERS  
 ADJ - ADJUST TO GRADE

FOR ESTIMATED QUANTITIES SEE SHEETS 11 & 12.  
 FOR CHANNEL DETAILS - SCOUR PROTECTION SEE SHEET 24.  
 FOR TRAFFIC CONTROL PLANS SEE SHEET 26.  
 FOR STRUCTURE PLANS SEE SHEET 46.



BM #1: MAG NAIL IN CONCRETE GUARDRAIL BASE, STA. 355+35.04, 33.07' RT, ELEV. 809.15  
 BM #2: CHISELED SQUARE IN S.E. CORNER OF CONCRETE SIGNAL POLE BASE, STA. 351+14.46, 36.71' RT, ELEV. 806.32



PLAN AND PROFILE  
 STA. 352+00 TO STA 357+00

CUY - 14 - 6 - 20 / 6.70  
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CALC: RAP DATE: 1/31/2018  
 CHECKED: MEM DATE: 2/16/2018

**ESTIMATED QUANTITIES (01/BRO/BR)**

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE SHEET
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS	29
202	38501	133	FT	BRIDGE RAILING REMOVED, AS PER PLAN				133	29
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING				LS	
503	21101	636	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN				636	29
509	10000	15949	LB	EPOXY COATED REINFORCING STEEL				15949	
509	20001	400	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN				400	29
510	10000	290	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT				290	
511	34411	40	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN				40	29
511	51511	55	CY	CLASS QC2 CONCRETE, SIDEWALK, AS PER PLAN				55	29
511	71200	637	SF	CONCRETE, MISC.: ARCHITECTURAL TREATMENT				637	30
511	81300	2	EACH	CONCRETE, MISC.: ARCHITECTURAL MOCKUP				2	30
512	10050	130	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)				130	
512	10101	289	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN				289	30
512	10601	100	FT	CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN				100	32
512	44401	475	SY	TYPE B WATERPROOFING, AS PER PLAN				475	31
516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				LS	31
517	75121	136	FT	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING), AS PER PLAN				136	31
518	21200	22	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC				22	
518	40000	120	FT	6" PERFORATED CORRUGATED PLASTIC PIPE				120	
518	62100	54	FT	STRUCTURE DRAINAGE, MISC.: INSTALLING 3" NON-PERFORATED PVC PIPE, INCLUDING SPECIALS				54	31
518	62200	4	EACH	STRUCTURE DRAINAGE, MISC.: CLEANING BACKFILL DRAINAGE AND INSTALLATION OF 3 INCH HDPE PIPE				4	31
518	62400	412	SY	STRUCTURE DRAINAGE, MISC.: COMPOSITE DRAINAGE PANEL				412	31-32
519	11101	150	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN				150	32
SPECIAL	53000200	LS		STRUCTURES UTILITY PROTECTION AND SUPPORT				LS	32
844	10001	648	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN				648	32

DESIGN AGENCY  
**KS**  
 KS Associates Inc.  
 260 BURNS ROAD, ELYRIA, OHIO 44035

REVIEWED DATE 2/16/2018  
 HVH  
 STRUCTURE FILE NUMBER 1801740

DRAWN RAP  
 REVISED NA

DESIGNED RAP  
 CHECKED MEM

**ESTIMATED QUANTITIES**  
 BRIDGE NO. CUY-14-0620  
 SR-14 OVER MILL CREEK

**CUY-14-6-20/6.70**  
 PID No. 13182

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CALC: RAP      DATE: 1/31/2018  
 CHECKED: MEM      DATE: 2/16/2018

**ESTIMATED QUANTITIES (01/BRO/BR)**

ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE SHEET
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LS	48
202	38501	156	FT	BRIDGE RAILING REMOVED, AS PER PLAN				156	48
503	11100	LS		COFFERDAMS AND EXCAVATION BRACING				LS	
503	21101	483	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN				483	48
509	10000	14789	LB	EPOXY COATED REINFORCING STEEL				14789	
509	20001	400	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN				400	48
510	10000	320	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT				320	
511	34411	37	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN				37	48
511	51511	55	CY	CLASS QC2 CONCRETE, SIDEWALK, AS PER PLAN				55	48
511	71200	718	SF	CONCRETE, MISC.: ARCHITECTURAL TREATMENT				718	49
512	10050	137	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)				137	
512	10101	246	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN				246	49
512	10601	100	FT	CONCRETE REPAIR BY EPOXY INJECTION, AS PER PLAN				100	51
512	44401	421	SY	TYPE B WATERPROOFING, AS PER PLAN				421	49-50
516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN				LS	50
517	75121	156	FT	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING), AS PER PLAN				156	50
518	21200	17	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC				17	
518	40000	100	FT	6" PERFORATED CORRUGATED PLASTIC PIPE				100	
518	62100	48	FT	STRUCTURE DRAINAGE, MISC.: INSTALLING 3" NON-PERFORATED PVC PIPE, INCLUDING SPECIALS				48	50
518	62200	4	EACH	STRUCTURE DRAINAGE, MISC.: CLEANING BACKFILL DRAINAGE AND INSTALLATION OF 3 INCH HDPE PIPE				4	50
518	62400	372	SY	STRUCTURE DRAINAGE, MISC.: COMPOSITE DRAINAGE PANEL				372	50-51
519	11101	150	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN				150	51
SPECIAL	53000200	LS		STRUCTURES UTILITY PROTECTION AND SUPPORT				LS	51
844	10001	631	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN				631	51

**ESTIMATED QUANTITIES**

BRIDGE NO. CUY-14-0670  
SR-14 OVER MILL CREEK

**CUY - 14 - 6 - 20 / 6.70**  
 PID No. 13182

6 / 18

52  
 74

DESIGN AGENCY  
**KS**  
 KS Associates Inc.  
 260 BURNS ROAD, ELYRIA, OHIO 44035

REVIEWED DATE 2/16/2018  
 HVH  
 STRUCTURE FILE NUMBER 1801775

DRAWN RAP  
 REVISION NA

DESIGNED RAP  
 CHECKED MEM