

**MAH-680-9.30 NOISE ABATEMENT**

MODEL: G0002 PAPER SIZE: 34x22 (in.) DATE: 2024-08-29 TIME: 1:40:49 PM USER: sean.buchanan  
 J:\136694\_MAH-680-9.30\Worksheets\110931\400-Engineering\Roadway\Sheets\110931\_G0002.dgn

SHEET NUM.										PART.			ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
P.8	P.11	P.12	P.21	P.22						01/IMS/44			EXT	TOTAL				
<b>DRAINAGE (CONT.)</b>																		
25				7						25			611	97400	25	FT	CONDUIT, MISC.: TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE	8
										7			611	99500	7	EACH	INLET, MISC.: INLET NO. 3 FOR 81" SINGLE SLOPE BARRIER	143
5				12						17			611	99710	17	EACH	PRECAST REINFORCED CONCRETE OUTLET	
5										5			611	99720	5	EACH	INSPECTION WELL	
<b>PAVEMENT</b>																		
				419						419			304	20000	419	CY	AGGREGATE BASE	
				137						137			407	20000	137	GAL	NON-TRACKING TACK COAT	
				20						20			441	70000	20	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
			19							19			441	70801	19	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	7
				2,279						2,279			452	13010	2,279	SY	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	
<b>TRAFFIC CONTROL</b>																		
			33.8							33.8			630	03100	33.8	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
			49.5							49.5			630	80100	49.5	SF	SIGN, FLAT SHEET	
			1							1			630	80100	1	SF	SIGN, FLAT SHEET (TYPE 730.20)	
			6							6			630	81021	6	EACH	CONCRETE MEDIAN BARRIER SIGN BRACKET, AS PER PLAN	146
			2							2			630	82000	2	EACH	SIGN BACKING ASSEMBLY	
			6							6			630	84900	6	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
			9							9			630	86002	9	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
			0.83							0.83			644	00204	0.83	MILE	LANE LINE, 6"	
<b>NOISE BARRIERS</b>																		
			61,413							61,413			SPECIAL	60610210	61,413	SF	NOISE BARRIER (REFLECTIVE)	136
			4,392							4,392			SPECIAL	60610920	4,392	SF	NOISE BARRIER (REFLECTIVE WITH ICON)	136
<b>MISCELLANEOUS STRUCTURE</b>																		
			12							12			517	74501	12	FT	RAILING, CONCRETE, AS PER PLAN	137
<b>MAINTENANCE OF TRAFFIC</b>																		
300										300			614	11110	300	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
3										3			614	12484	3	EACH	WORK ZONE INCREASED PENALTIES SIGN	
			239							239			614	12801	239	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	11
		6								6			614	18601	6	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	12
			1.77							1.77			614	22326	1.77	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 873	
			3,120							3,120			614	23130	3,120	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 873	
			1,880							1,880			614	24122	1,880	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 873	
50										50			616	10000	50	MGAL	WATER	
		18								18			808	18700	18	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
<b>INCIDENTALS</b>																		
										10			614	11900	10	LS	MAINTAINING TRAFFIC	
										10			619	16010	10	MNTH	FIELD OFFICE, TYPE B	
										10			623	10000	10	LS	CONSTRUCTION LAYOUT STAKES AND SURVEYING	
										10			624	10000	10	LS	MOBILIZATION	

**GENERAL SUMMARY**

DESIGN AGENCY  
**ARCADIS**  
 8101 NORTH HIGGINS SUITE 100  
 COLUMBIANA, OHIO 43085  
 (614) 818-4900  
 www.arcadis.com

DESIGNER  
**JMK**

REVIEWER  
**JDH**

PROJECT ID  
**110931**

SHEET TOTAL  
 P.20 | 183

**△** 06-12-24: INCREASED DURATION OF FIELD OFFICE, TYPE B  
**△** 08-29-24: ADDENDUM R1 - UPDATED QUANTITY VALUE FOR ITEM 452 TO SY FROM CY

**MAH-680-9.30 NOISE ABATEMENT**

MODEL: GS002 PAPER SIZE: 34x22 (in.) DATE: 2024-08-29 TIME: 1:30:50 PM USER: sean.buchanan J:\136694\_MAH-680-9.30\Worksets\110931-400-Engineering\Roadway\Sheets\110931\_GS002.dgn

**UNDERDRAIN SUBSUMMARY**

REF. NO.	SHEET NO.	STATION	SIDE	OFFSET	STATION	SIDE	OFFSET	BENDS AND BRANCHES FOR INFORMATION ONLY					
								601	605	611	611		
		FROM			TO			TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	6" BASE PIPE UNDERDRAINS	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	PRECAST REINFORCED CONCRETE OUTLET	PLUG	45 DEGREE BEND
								SY	FT	FT	EACH	NO.	NO.
<b>NOISE WALL 4</b>													
UD-1	P.35 - P.36	4000+00.00	RT	2.00	4004+82.00	RT	2.00		482	12		1	2
EC-11	P.35	588+71.48, IR 680	RT	101.09				2			1		
UD-2	P.36 - P.37	4004+92.00	RT	2.00	4007+26.00	RT	2.00		234	25		1	2
EC-12	P.36	593+62.92, IR 680	RT	111.22				2			1		
UD-3	P.37	4007+36.00	RT	2.00	4010+69.00	RT	2.00		333	18		1	2
EC-14	P.37	599+53.32, IR 680	RT	123.14				2			1		
UD-4	P.37 - P.38	4010+79.00	RT	2.00	4013+96.93	RT	2.00		318	19		1	2
EC-15	P.38	602+81.82, IR 680	RT	118.02				2			1		
UD-5	P.38 - P.39	4014+11.07	RT	2.00	4017+28.00	RT	2.00		317	10		1	1
<b>NOISE WALL 7</b>													
UD-6	P.40	700+00.00	RT	2.00	701+25.93	RT	2.00		126	21		1	2
EC-17	P.40	608+28.32, IR 680	RT	123.07				2			1		
UD-7	P.40	701+40.07	RT	2.00	702+95.00	RT	2.00		155	10		1	1
UD-7A	P.40 - P.41	703+12.00	RT	2.00	705+88.00	RT	2.00		276	21		1	2
EC-18A	P.40	609+98.53, IR 680	RT	124.49				2			1		
UD-8	P.41 - P.42	705+98.00	RT	2.00	709+53.00	RT	2.00		355	17		1	2
EC-23	P.42	616+48.23, IR 680	RT	128.66				2			1		
UD-9	P.42	709+63.00	RT	2.00	712+57.93	RT	2.00		295	28		1	2
UD-10	P.42 - P.43	712+72.07	RT	2.00	714+82.00	RT	2.00		205	10		1	1
EC-26	P.42	619+53.16, IR 680	RT	117.30				2			1		
UD-11	P.43 - P.44	714+92.00	RT	2.00	719+91.00	RT	2.00		499	27		1	2
EC-30	P.44	626+87.28, IR 680	RT	129.11				2			1		
UD-12	P.44 - P.45	720+01.00	RT	2.00	724+95.00	RT	2.00		494	11		1	2
EC-32	P.45	632+10.83, IR 680	RT	146.32				2			1		
UD-13	P.45	725+05.00	RT	2.00	726+31.93	RT	2.00		127	19		1	2
UD-14	P.45 - P.46	726+46.07	RT	2.00	730+03.00	RT	2.00		356	10		1	1
EC-33	P.45	633+54.84, IR 680	RT	156.37				2			1		
UD-15	P.46	730+13.00	RT	2.00	732+83.00	RT	2.00		270	18		1	2
EC-34	P.46	638+60.05, IR 680	RT	545.06				2			1		
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>								24	4842	276	12	16	28

1 08-29-24: ADDENDUM R1 - UPDATED QUANTITY VALUE FOR ITEM 452 TO SY FROM CY

**NOISE ABATEMENT STRUCTURE SUBSUMMARY**

REF. NO.	SHEET NO.	STATION	202		204	204	304	407	441	452	517	602	606	606	611	611	611	622	622	622	622	622	659
			BRIDGE RAILING REMOVED	SUBGRADE COMPACTION	PROOF ROLLING	AGGREGATE BASE (6")	NON-TRACKING TACK COAT (APPLIED AT 0.06 GAL/SY)	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 (1.5")	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P	RAILING, CONCRETE, AS PER PLAN	CONCRETE MASONRY	SPECIAL - NOISE BARRIER (REFLECTIVE)	SPECIAL - NOISE BARRIER (REFLECTIVE WITH ICON)	15" CONDUIT, TYPE C	15" CONDUIT, TYPE F	INLET, MISC.: INLET NO. 3 FOR 81" SINGLE SLOPE BARRIER	BARRIER, MISC.: CONCRETE BARRIER, 81" SSB	BARRIER, MISC.: CONCRETE BARRIER, 81" SSB, END ANCHORAGE, REINFORCED	BARRIER, MISC.: CONCRETE BARRIER, 81" SSB, WINDOW SECTION	BARRIER, MISC.: CONCRETE BARRIER, 81" SSB, END SECTION, AS PER PLAN	BARRIER, MISC.: CONCRETE BARRIER, 81" SSB, END SECTION, 32" TO 81"	SEEDING AND MULCHING	
		FROM	TO	FT	SY	HOUR	CY	GAL	CY	SY	FT	CY	SF	SF	FT	FT	EACH	FT	EACH	EACH	EACH	EACH	SY
<b>81" SSB 1</b>															111	86							
B-1	P.27 - P.31	100+00.00	121+85.66	12	1351	1	226	74	11	1230	12	1.62			6	1904	12			1	1	3835	
<b>81" SSB 4 / NOISE WALL 4</b>																							
B-4	P.32 - P.35	400+00.00	418+64.00		1153	1	193	63	9	1049		0.27									1	1726	
W-4	P.35 - P.39	4000+00.00	4017+28.00										20880	1560	30	1	1686	7		1		12142	
<b>NOISE WALL 7</b>																							
W-7	P.40 - P.46	700+00.00	733+00.00										40533	2832								23521	
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				12	2504	2	419	137	20	2279	12	1.89	61413	4392	141	86	7	3590	19	1	1	2	41224

NOTE: SEEDING AND MULCHING QUANTITY CALCULATED USING CAD GENERATED AREAS. QUANTITY SHOWN ON THIS SHEET CARRIED TO P.7

**EROSION CONTROL SUBSUMMARY**

REF. NO.	SHEET NO.	STATION	STATION	SIDE	601		601	601
					TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	
		FROM	TO		SY	CY	CY	
<b>81" SSB 1</b>								
EC-1	P.27	539+28.21, IR 680		RT	24			
EC-2	P.29	112+00.00		RT			2	
EC-3	P.31	118+50.00		RT			2	
EC-4	P.31	121+00.00		RT			2	
EC-5	NOT USED							
EC-6	NOT USED							
EC-7	NOT USED							
<b>81" SSB 4 / NOISE WALL 4</b>								
EC-8	NOT USED							
EC-9	P.35	417+00.00		RT	17			
EC-10	P.35	589+81.75, IR 680		RT	9			
EC-13	P.36	4004+80.00	4005+04.00	LT/RT		23		
EC-16	P.38	4015+84.00	4016+08.00	LT		20		
<b>NOISE WALL 7</b>								
EC-18	P.40	702+27.00	702+75.00	LT/RT		223		
EC-19	P.40	702+99.00	703+71.00	LT/RT		334		
EC-20	P.41	706+05.00	706+29.00	LT/RT		107		
EC-21	P.41	707+01.00	707+25.00	LT/RT		58		
EC-22	P.41	707+73.00	707+97.00	LT/RT		112		
EC-24	P.42	709+65.00	709+89.00	LT/RT		89		
EC-25	P.42	709+89.00	710+13.00	LT/RT		89		
EC-27	P.42	712+53.00	712+77.00	LT/RT		23		
EC-28	P.43	716+91.00	717+15.00	LT/RT		123		
EC-29	P.43	717+39.00	717+63.00	LT/RT		123		
EC-31	P.44	720+51.00	720+75.00	LT/RT		60		
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>					50	1384	6	

**SUBSUMMARY**

DESIGN AGENCY



DESIGNER

JMK

REVIEWER

JDH 05-30-24

PROJECT ID

110931

SHEET

P.22

TOTAL 183