



# OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

## THE JAMES W. SHOCKNESSY OHIO TURNPIKE

### PROJECT NO. 43-22-03

# BRIDGE DECK REPLACEMENT AND REHABILITATION

## OHIO TURNPIKE OVER ABANDONED RAILROAD M.P. 98.9, OHIO TURNPIKE OVER STATE ROUTE 510 M.P. 99.1 SANDUSKY COUNTY, OHIO

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#### OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION STANDARD DRAWINGS

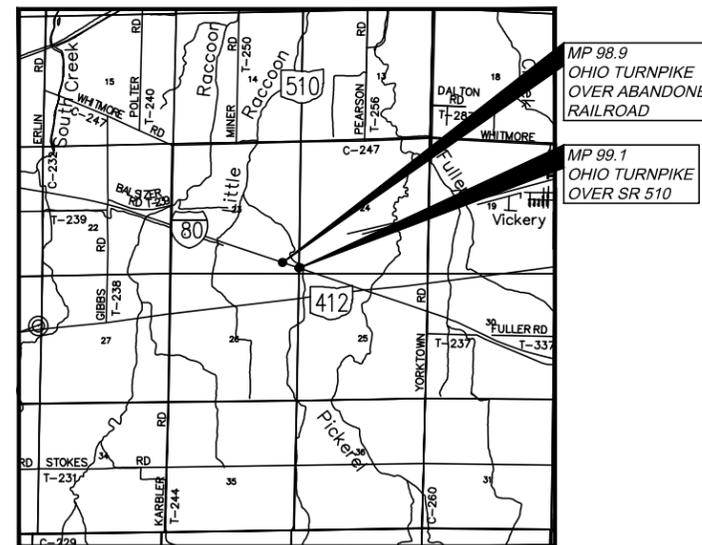
AS-1	12/31/2019	REINFORCED CONCRETE APPROACH SLAB
CB-2	10/20/2017	CATCH BASIN, NO. CB-1 RECONSTRUCTED
CBR-1	02/09/2021	CONCRETE BARRIER, TYPES B-50 AND C-30, AS PER PLAN
DJ-1	12/31/2019	DECK JOINT DETAILS
F-1	01/07/2021	RIGHT OF WAY FENCE
RPM-1	10/20/2017	RAISED PAVEMENT MARKER AND STRIPING LAYOUT
TC-2	10/20/2017	TRAFFIC CONTROL SPEED MEASUREMENT MARKING
TC-3	10/20/2017	TRAFFIC CONTROL MISCELLANEOUS DELINEATION
TCB-1	10/20/2017	REQUIREMENT FOR PORTABLE BARRIER SETTING AND REMOVAL OPERATIONS
TCR-1	01/07/2021	TEMPORARY TRAFFIC CONTROL GENERAL NOTES
TCR-2	01/07/2021	TEMPORARY TRAFFIC CONTROL DETAILS, LEGEND, NOTES AND STANDARD SINGLE LANE CLOSURE
TCR-9.1	10/20/2017	TEMPORARY TRAFFIC CONTROL LANE CLOSURE AT EXIT AND ENTRANCE RAMPS
TCR-10	01/07/2021	TEMPORARY TRAFFIC CONTROL DOUBLE LANE CLOSURE
TCR-11PS	10/20/2017	TEMPORARY TRAFFIC CONTROL PAVEMENT STRIPING MOVING ZONE
TCR-12	01/07/2021	TEMPORARY TRAFFIC CONTROL SINGLE AND DOUBLE LANE SHIFT ZONES
TCR-13	01/07/2021	SONIC NAP ALERT PATTERN (SNAP)
TCR-14	01/07/2021	TEMPORARY TRAFFIC CONTROL SINGLE LANE CLOSURE WITH PORTABLE BARRIER
TCR-15	01/07/2021	TEMPORARY TRAFFIC CONTROL SIGNS FOR MAINTENANCE AND CONSTRUCTION
UD-1	09/19/2018	UNDER-DRAIN DETAILS

#### OHIO DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS

MGS-1.1	01/19/2018	GUARDRAIL DETAILS
MGS-2.1	01/19/2018	MIDWEST GUARDRAIL SYSTEM, STANDARD TYPE MGS
MGS-3.1	01/19/2018	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1
MGS-3.2	01/18/2013	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2
MGS-4.3	01/18/2013	GUARDRAIL TRANSITIONS
MT-95.30	07/19/2019	CLOSING RIGHT OR LEFT LANE OF A MULTI-LANE DIVIDED HIGHWAY WITH DRUMS
MT-96.11	04/16/2021	SIGNALIZED CLOSING 1 LANE OF A 2-LANE HIGHWAY
MT-96.20	07/15/2016	DETAILS FOR SIGNALIZED CLOSING 1 LANE OF A 2-LANE HIGHWAY
MT-96.26	01/18/2019	TYPICAL WIRING DIAGRAM FOR ONE SIGNAL HEAD AND ONE DETECTOR
MT-103.10	01/19/2018	CONSTRUCTION ACCESS POINTS
MT-105.10	01/17/2020	TEMPORARY SIGN SUPPORT
SBR-1-13	07/20/2018	SINGLE SLOPE CONCRETE BRIDGE RAILING
TC-52.10	10/18/2013	SIGN BLANK DETAILS 1
TC-52.20	01/15/2021	SIGN BLANK DETAILS 2

#### OHIO DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS AND SUPPLEMENTS

SS 800	04/16/2021	REVISION TO THE 2019 CONSTRUCTION AND MATERIAL SPECIFICATIONS
SS 821	04/20/2012	ARROW BOARD
SS 832	10/19/2018	TEMPORARY SEDIMENT AND EROSION CONTROL
SS 849	01/18/2013	HEAT STRAIGHTENING OF DAMAGED STRUCTURAL STEEL
SS 921	04/20/2012	ARROW BOARD
S 1021	01/18/2019	ARROW BOARD PREQUALIFICATION PROCEDURES



APPROVED FOR  
THE OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION  
BY

*Anthony D. Yank*

CHIEF ENGINEER

9-21-2021

DATE

#### UNDERGROUND UTILITIES

CONTACT ALL SERVICES AT LEAST  
TWO WORKING DAYS BEFORE YOU DIG

CALL 1-800-362-2764 OR 811 (CELLULAR)

OR GO TO



OHIO OIL & GAS PRODUCERS UNDERGROUND  
PROTECTION SERVICE CALL: 614-715-2984

OTIC DIVISION TRADES SUPERVISOR:  
440-971-2731 - WEST (M.P. 0.0 - M.P. 126.4)  
440-971-2781 - EAST (M.P. 126.4 - M.P. 241.26)

ENGINEERS SEAL



SIGNED: *Hamid V. Homaei*  
DATE: 09/21/2021

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ESTIMATED QUANTITIES									
ITEM	TOTAL	UNIT	ITEM DESCRIPTION	GENERAL	M.P. 98.9	M.P. 99.1	SLOPE	SHT NO.	
GENERAL									
IB. ART. 6	LUMP SUM	LUMP SUM	PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND	LUMP SUM					
SP 614	LUMP SUM	LUMP SUM	MAINTAINING TRAFFIC	LUMP SUM					
SP 619	LUMP SUM	LUMP SUM	FIELD OFFICE	LUMP SUM					
SP 623	LUMP SUM	LUMP SUM	CONSTRUCTION LAYOUT SURVEY	LUMP SUM					
624	LUMP SUM	LUMP SUM	MOBILIZATION	LUMP SUM					
ROADWAY									
201	LUMP SUM	LUMP SUM	CLEARING AND GRUBBING	LUMP SUM					
202	225	FOOT	GUARDRAIL REMOVED		100		125		
202	50	FOOT	GUARDRAIL REMOVED FOR REUSE				50		
202	8	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED		4	4			
202	582	SQ YD	PAVEMENT REMOVED		443		139		
202	80	FOOT	CONCRETE BARRIER REMOVED		40	40			
202	125	FOOT	CURB REMOVED				125		
202	495	FOOT	FENCE REMOVED		495				
203	24,418	CU YD	EMBANKMENT (AS PER PLAN)		23,230		1,188	29	
203	712	CU YD	EXCAVATION		616	96			
203	1,088	CU YD	EXCAVATION, AS PER PLAN				1,088	50	
203	667	CU YD	EXCAVATION OF SUBGRADE		334	333			
204	6,518	SQ YD	SUBGRADE COMPACTION		5,946	433	139		
204	9	HOUR	PROOF ROLLING		8		1		
254	2,951	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE (3")		307	2,644			
SP 302	1,936	CU YD	ASPHALT CONCRETE BASE, PG64-22		1,912		24		
SP 304	1,748	CU YD	AGGREGATE BASE		1,652	72	24		
SP 304	394	CU YD	AGGREGATE BASE (TOE KEY)				394		
407	2,117	GAL	NON-TRACKING TACK COAT		1,707	397	13		
441	8	CU YD	2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22				8		
SP 402	406	CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, PG 70-22 (FR) (T=1 3/4")		277	129			
SP 404	290	CU YD	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG 70-22 (FR) (T=1 1/4")		198	92			
SP 451	100	SQ YD	FULL DEPTH PAVEMENT REPAIRS (ASPHALT)			100			
SP 605	1,400	FOOT	6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP		1,400				
SP 605	3,500	FOOT	6" BASE PIPE UNDERDRAIN		3,500				
606	50	FOOT	GUARDRAIL REBUILT				50		
606	525	FOOT	GUARDRAIL, TYPE MGS, USING STEEL POSTS		525				
606	125	FOOT	GUARDRAIL, TYPE MGS, USING LONG STEEL POSTS				125		
606	2	EACH	MGS BRIDGE TERMINAL, TYPE 1, USING STEEL POSTS			2			
606	2	EACH	MGS BRIDGE TERMINAL, TYPE 2, USING STEEL POSTS			2			
607	360	FOOT	FENCE, TYPE 47		360				
609	825	FOOT	ASPHALT CONCRETE CURB, TYPE 1		700		125		
SP 611	100	FOOT	6" CONDUIT, TYPE F, 707.33		100				
SP 611	5	EACH	CATCH BASIN ADJUSTED TO GRADE		3	2			
614	LUMP SUM	LUMP SUM	DETOUR SIGNING	LUMP SUM					
614	5	EACH	REPLACEMENT SIGN		5				
614	5	EACH	WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)		5				
614	1,156	DAYS	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN		1,156			4	
614	10,272	HOURS	ZONE PERSON		10,272				
614	280	EACH	OBJECT MARKER, 1-WAY		280				
SPECIAL	15,000	FOOT	"SNAP" MILL AND FILL		15,000				
SP 614C	8.85	MILE	REMOVAL OF PAVEMENT MARKING		8.85				
SP 621	212	EACH	RAISED PAVEMENT MARKING, AS PER PLAN #1		212				
SP 621	248	EACH	RAISED PAVEMENT MARKING, AS PER PLAN #2		248				
SP 622	1	LUMP SUM	PORTABLE BARRIER		1				
SP 622	1	LUMP SUM	PORTABLE BARRIER, BRIDGE MOUNTED		1				
622	350	FOOT	CONCRETE BARRIER, TYPE B-50, AS PER PLAN		300	50			
622	50	FOOT	CONCRETE BARRIER, TYPE B			50			
623	1	EACH	MONUMENT BOX ADJUSTED TO GRADE			1			
625	1	EACH	LIGHT POLE, MISC.: REMOVAL, STORAGE, REERECTION				1		
625	1	EACH	LIGHT POLE FOUNDATION REMOVAL AND DISPOSAL				1		
625	1	EACH	LIGHT POLE FOUNDATION, 24" X 10" DEEP				1		
SP 626	2	EACH	BARRIER REFLECTOR, TYPE A (WHITE)				2		
630	6	EACH	SIGNING MISC.: LOW CLEARANCE SIGN			6			
630	16	SQ FT	SIGNING MISC.: ADDITIONAL SIGNS GROUND MOUNTED, AS PER DIRECTED BY THE ENGINEER		16				
642	8.85	MILE	PAVEMENT MARKING MISC.: FINAL PAVEMENT MARKING PREPARATION		8.85				
642	3.35	MILE	EDGE LINE, 4", TYPE 1		3.35				
642	5.50	MILE	LANE LINE, 4", TYPE 1		5.50				
659	548	CU YD	TOPSOIL		486	62			
659	4,931	SQ YD	SEEDING AND MULCHING, AS PER PLAN		4,375		556	13	
671	556	SQ YD	EROSION CONTROL MAT				556		

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

BY DATE: **MTG 09/21**  
 REVISIONS: **ADDENDUM 4**  
**ADDENDUM 5**  
**ADDENDUM 6**

CHECKED: **NO. 4**  
 NO. 5  
 NO. 6

PROJECT 43-22-03  
 DATE: 9/28/2020

ESTIMATED QUANTITIES  
 SANDUSKY COUNTY

M.P. 98.9 AND 99.1

15  
50

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION