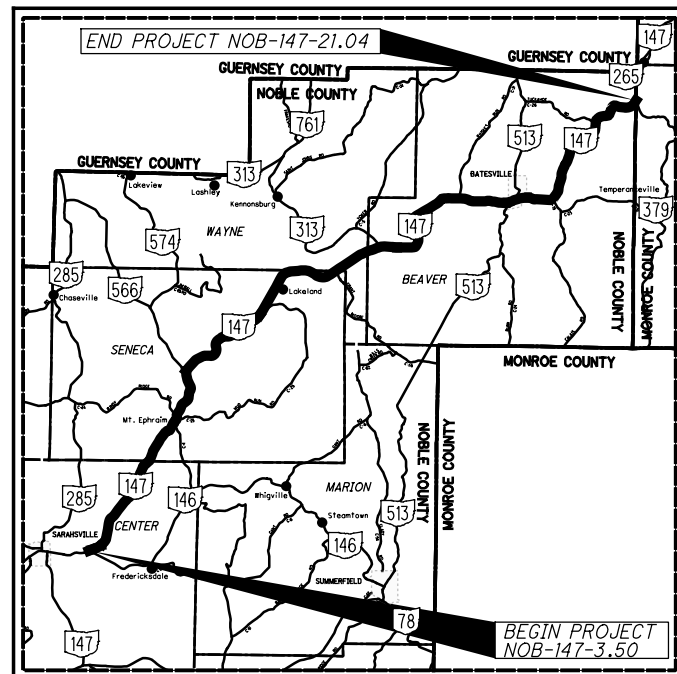


STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

# NOB-147-3.50

## CENTER, SENECA, WAYNE, & BEAVER TOWNSHIPS NOBLE COUNTY



LOCATION MAP

LATITUDE: 39°53'28" LONGITUDE: -81°21'21"



PORTION TO BE IMPROVED	—————
INTERSTATE HIGHWAY	—————
FEDERAL ROUTES	—————
STATE ROUTES	—————
COUNTY & TOWNSHIP ROADS	—————
OTHER ROADS	—————

### DESIGN DESIGNATION

CURRENT ADT (2020)	1,100
DESIGN YEAR ADT (2032)	1,300
DESIGN HOURLY VOLUME (2032)	130
DIRECTIONAL DISTRIBUTION	0.53
TRUCKS (24 HOUR B&C)	0.10
DESIGN SPEED	55 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
MAJOR COLLECTOR	
NHS PROJECT	NO

### DESIGN EXCEPTIONS

NONE

**UNDERGROUND UTILITIES**

CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.

Call Before You Dig  
**1-800-362-2764**

(Non-members must be called directly)

OIL & GAS PRODUCERS  
UNDERGROUND PROTECTION SERVICE  
**1-800-925-0988**

PLAN PREPARED BY:  
OHIO DEPARTMENT OF TRANSPORTATION  
D10 - PLANNING & ENGINEERING  
MARIETTA, OHIO

### INDEX OF SHEETS:

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SOIL PROFILE	

ENGINEERS SEAL:

**MATTHEW R. FIRST**  
E-75677  
REGISTERED PROFESSIONAL ENGINEER

SIGNED:

DATE: 2/25/2021

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/17/20	MGS-6.1	1/19/18	800-2019 4/16/21	WATERWAY
BP-3.2	1/18/19			832 10/19/18	PERMITS 3/1/21
BP-4.1	7/19/13	MT-96.11	4/17/20	902 7/19/19	
BP-7.1	7/17/20	MT-96.20	7/15/16		
		MT-97.10	4/19/19		
MGS-1.1	1/19/18	MT-97.12	1/20/17		
MGS-2.1	1/19/18	MT-101.70	1/17/20		
MGS-2.3	7/18/14	MT-101.75	1/17/20		
MGS-3.1	1/19/18	MT-101.90	7/17/20		
MGS-3.2	1/18/13	MT-105.10	1/17/20		
MGS-4.1	1/20/17				
MGS-4.2	7/19/13	TC-61.30	7/19/19		
MGS-4.3	1/18/13	TC-65.10	1/17/14		
MGS-4.5	1/18/13	TC-65.11	7/21/17		
MGS-5.2	7/15/16	TC-71.10	1/19/18		
MGS-5.3	7/15/16				

### PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF 17.54 MILES OF RESURFACING USING ASPHALT OVERLAY WITH REPAIR AND OTHER ASPHALT RELATED WORK. THIS INCLUDES 4.29 MILES OF FULL DEPTH RECLAMATION AND THE REPAIR OF TWO LANDSLIDES.

### EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.60 ACRES\*  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.35 ACRES\*  
NOTICE OF INTENT EARTH DISTURBED AREA: 0.95 ACRES\*  
\*ROUTINE MAINTENANCE

### 2019 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED Darla Miller  
DATE 2/25/2021 DISTRICT DEPUTY DIRECTOR

APPROVED \_\_\_\_\_  
DATE \_\_\_\_\_ DIRECTOR, DEPARTMENT OF TRANSPORTATION

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FEDERAL PROJECT NO.

E161516

PID NO.

91773

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT

NONE

NOB-147-3.50

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SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	MRF	CHECKED	JDC	
4	8	12	13	14	15	17	18	18A			01/STR/PV	02/STR/OT											
											LS		201	11001	LS		CLEARING AND GRUBBING, AS PER PLAN	4					
												237	202	30000	237	SF	WALK REMOVED						
												519	83	35100	602	FT	PIPE REMOVED, 24" AND UNDER						
													202	38000	5,313	FT	GUARDRAIL REMOVED						
													2	42000	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A						
													3	98500	3	CY	REMOVAL MISC.: ROCK CHANNEL PROTECTION REMOVED						
													194	20000	194	CY	EMBANKMENT						
													454	10000	454	SY	SUBGRADE COMPACTION						
												30	204	45000	30	HOUR	PROOF ROLLING						
												1,407	206	10500	1,407	TON	CEMENT						
												4,824	203	40001	4,824	CY	BORROW, AS PER PLAN	4					
												10,182	209	10000	10,182	FT	DITCH CLEANOUT						
												9.12	25.96	72050	35.08	MILE	PREPARING SUBGRADE FOR SHOULDER PAVING						
													606	15050	5,300	FT	GUARDRAIL, TYPE MGS						
													606	15400	250	FT	MGS GUARDRAIL, TYPE 8						
													606	17050	287.5	FT	RAISING TYPE MGS GUARDRAIL						
													606	25550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE A						
													606	26150	14	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016						
													606	26500	9	EACH	ANCHOR ASSEMBLY, TYPE T						
													606	27846	3	EACH	ANCHOR ASSEMBLY REBUILT, MGS TYPE B						
													5,038	SPECIAL	60650000	5,038	FT	RESHAPING BERM	4				
												640	608	10000	640	SF	4" CONCRETE WALK						
												48	608	53020	48	SF	DETECTABLE WARNING						
											<b>EROSION CONTROL</b>												
													4	21050	4	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT						
													7	32200	7	CY	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER						
													757	10000	757	SY	SEEDING AND MULCHING						
											LS		659	98700	LS		SEEDING, MISC.:SEEDING AND MULCHING	4					
													832	30000	5,000	EACH	EROSION CONTROL						
											<b>DRAINAGE</b>												
												6	0.6	20000	6.6	CY	CONCRETE MASONRY						
											200		605	13402	200	FT	6" UNCLASSIFIED PIPE UNDERDRAINS FOR SPRINGS						
											40		605	32200	40	FT	AGGREGATE DRAINS FOR SPRINGS						
													6	00510	6	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS						
												92	611	04200	92	FT	12" CONDUIT, TYPE A						
												384	611	05700	384	FT	15" CONDUIT, TYPE A						
													82	07200	82	FT	18" CONDUIT, TYPE A, 706.02						
											4		611	99710	6	EACH	PRECAST REINFORCED CONCRETE OUTLET						
													613	41200	53	CY	LOW STRENGTH MORTAR BACKFILL						
											<b>PAVEMENT</b>												
													253	02000	2,010	CY	PAVEMENT REPAIR						
													254	01000	1,336	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.25"						
												1,430	254	01000	3,112	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.5"						
												2,969	254	01000	2,969	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3"						
												57,886	254	01000	57,886	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 4"						
											150		301	46000	215	CY	ASPHALT CONCRETE BASE, PG64-22						
											20		304	20000	90	CY	AGGREGATE BASE						
											35	8,514	407	20000	31,736	GAL	NON-TRACKING TACK COAT						
												4,515	408	10000	16,699	GAL	PRIME COAT						
												2,752	441	10100	2,752	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG70-22M						
												4,039	441	10200	4,039	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446)						
											20		441	50000	51	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22						
												7,609	441	50100	7,609	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG70-22M						
												8,653	441	50300	8,653	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448)						
												785	617	10100	2,900	CY	COMPACTED AGGREGATE						
												57,886	SPECIAL	69098300	57,886	SY	FULL DEPTH RECLAMATION WITH CEMENT	12					
												57,886	SPECIAL	69098300	57,886	SY	COVER AGGREGATE	6					
												21,418	SPECIAL	69098900	21,418	GAL	CURING SEAL	6					

**GENERAL SUMMARY**

**NOB-147-3.50**