

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

**CUY/LAK-91-15.42/0.00**

CITY OF WILLOUGHBY  
CITY OF WILLOUGHBY HILLS  
MAYFIELD VILLAGE  
CUYAHOGA COUNTY  
LAKE COUNTY

PROJECT DESCRIPTION:

REHABILITATION OF 3.68 MILES OF S.R. 91 BY PLANING ASPHALT, PAVEMENT REPAIRS, INLET REPLACEMENT AND ASPHALT OVERLAY. THE OVERLAY SHALL RAISE THE PROFILE GRADE BY 2-1/2".

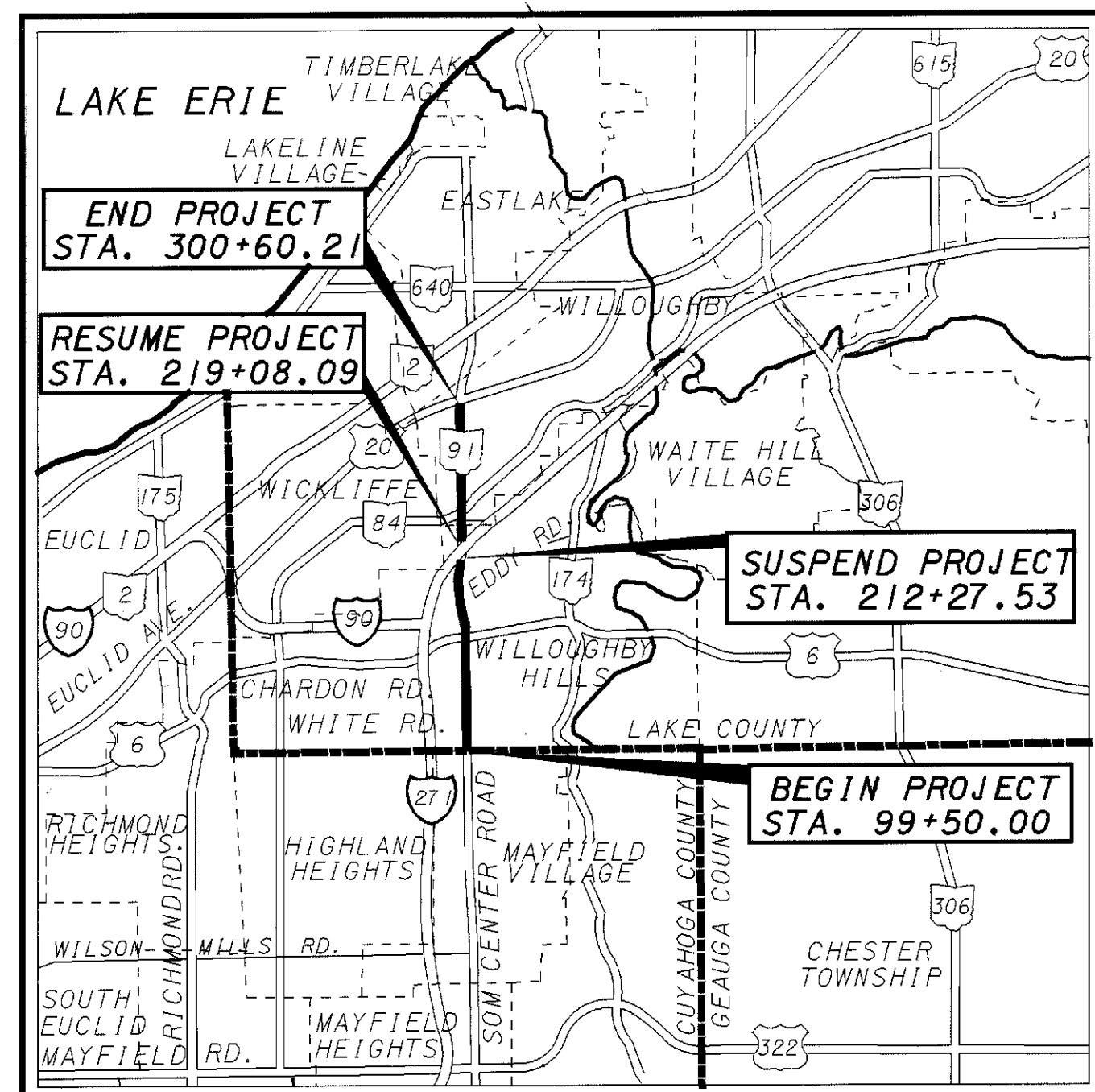
1997 SPECIFICATIONS

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

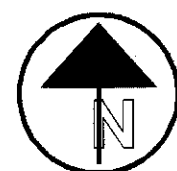
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH IN THE PLANS AND ESTIMATES.

APPROVED *[Signature]*  
DATE 14 OCT 98 DISTRICT DEPUTY DIRECTOR

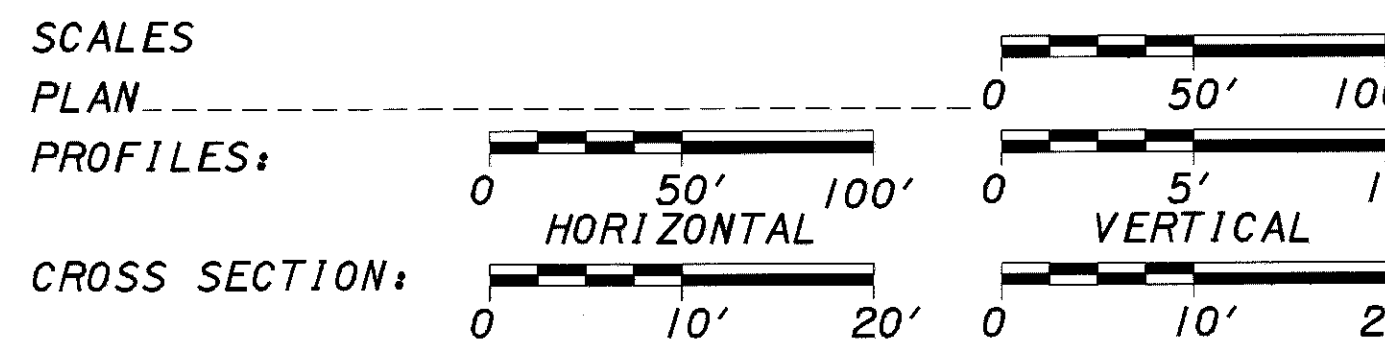
APPROVED *[Signature]*  
DATE 10-27-98 DIRECTOR, DEPARTMENT OF TRANSPORTATION



LONGITUDE W 81°26'30" LOCATION MAP  
LATITUDE N 41°36'00"



PORTION TO BE IMPROVED  
STATE & FEDERAL ROUTES  
OTHER ROADS



DESIGN DESIGNATION	SLM 0.00-2.08	SLM 2.29-3.81
CURRENT ADT (1998)	17412	28881
DESIGN YEAR ADT (2018)	17452	29251
DESIGN HOURLY VOLUME (2018)	1920	2633
DIRECTIONAL DISTRIBUTION	56%	54%
TRUCKS (24 HOUR B&C)	3%	3%
DESIGN SPEED	40 MPH	40 MPH
LEGAL SPEED	40 MPH	40 MPH
DESIGN FUNCTIONAL CLASSIFICATION	URBAN ARTERIAL	

DESIGN EXCEPTIONS

DESIGN	APPROVAL DATE	SHEET NUMBER
LANE WIDTH	8-14-91	3

UNDERGROUND UTILITIES

TWO WORKING DAYS BEFORE YOU DIG  
CALL 1-800-362-2764 (TOLL FREE)  
OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY

PLAN PREPARED BY:  
OHIO DEPARTMENT OF TRANSPORTATION  
DISTRICT 12  
PRODUCTION



INDEX OF SHEETS

TITLE SHEET	1
SCHEMATIC PLAN & LEGEND SYMBOLS	2
TYPICAL SECTIONS	3-9
GENERAL NOTES	10-14
MAINTENANCE OF TRAFFIC	15
GENERAL SUMMARY	16-18
CALCULATIONS AND SUB-SUMMARIES	19-25
PLAN & PROFILE	26-46
CROSS SECTIONS	47-76
STRAWBERRY LANE OUTLET PIPE	76A, 76B
MISCELLANEOUS DETAILS	77-84
DRAINAGE DETAILS	85
TRAFFIC CONTROL	86-104
SHEET NOT USED	81

STANDARD CONSTRUCTION DRAWINGS

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS	
BP-1.1	2-21-92	HW-2.1M	7-12-95	MH-1	12-18-84	HL-30.11	5-1-87			806	9-9-97
BP-2.1M	4-8-97	HW-2.2M	7-12-95	MH-1.2M	9-6-95			MT-95.31	10-10-88	904	5-5-98
BP-2.2M	10-21-97			MH-5	6-12-75	TC-35.10	8-29-84	MT-95.32	8-25-89	906	5-5-98
BP-2.5M	4-8-97	RM-1.1M	4-8-97	DM-1.1M	6-30-95	TC-41.10	7-1-92	MT-97.10	4-29-88	932	10-2-96
BP-3.1	2-21-92	CB-1.1M	7-12-95	MC-8	6-12-75	TC-41.20	6-21-94	MT-97.11	10-4-89		
BP-4.1	2-21-92	CB-1.2M	7-12-95	DM-4.2M	6-30-95	TC-52.10	4-3-79	MT-99.20	4-29-88		
BP-5.1	10-28-94	CB-2.1M	7-12-95	DM-4.3M	6-30-95	TC-52.20	4-3-79	MT-105.10	7-1-92		
BP-7.1	10-30-94	CB-2.2M	7-12-95	DM-4.4M	6-30-95	TC-71.10	9-10-91	MT-105.11	7-1-92		
						TC-82.10	8-29-84				
GR-1.1M	11-30-94	I-1.2M	9-6-95								
GR-1.2M	1-3-96										
GR-1.3	2-21-92										
GR-2.1M	4-14-98										
GR-4.2M	4-21-95										
GR-5.1	10-30-92										

FEDERAL PROJECT NO.  
TE21-G990 (96)

PID NO.  
09864

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT  
NONE

CUYAHOGA COUNTY  
LAKE COUNTY  
CUY/LAK-91-15.42/0.00

PLOT SUBMITTED: 14-OCT-1998 07:53  
 CUY/LAK-91-15.42 PID # 9864  
 990033  
 DIST 12  
 1-27-99  
 PLOTTED BY: ekallio  
 PLOTTED FROM: \\users\bkruse\pid\09864\09864qta.dgn  
 58