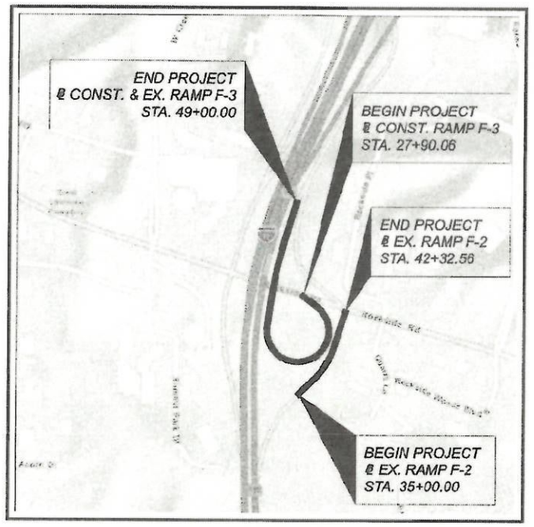
CUY - IR 77-08.37 NB Ramps Safety
220233 PID - 113403
Dist 12 4/14/2022

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
CUY-77-8.37 NB RAMPS SAFETY
CITY OF INDEPENDENCE
CUYAHOGA COUNTY



LOCATION MAP

LATITUDE: 41°23'44" LONGITUDE: 81°39'06"

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

DESIGN DESIGNATION

FOR DESIGN DESIGNATIONS, SEE SHEET 2

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

INDEX OF SHEETS:

TITLE SHEET	1
PLAN LEGEND AND DESIGN DESIGNATIONS	2
SCHEMATIC PLAN	3
GEOMETRIC PLAN	4
CURVE DATA AND REFERENCE POINTS	5 - 6
TYPICAL SECTIONS	7 - 13
GENERAL NOTES	14 - 19
MAINTENANCE OF TRAFFIC	20 - 47
GENERAL SUMMARY	48 - 54
SUBSUMMARIES	55 - 56
ESTIMATED QUANTITIES	57 - 60
CALCULATIONS	61 - 62
PROJECT SITE PLAN	63
PLAN AND PROFILE - RAMP F-2	64 - 66
PLAN AND PROFILE - RAMP F-3	67 - 71
CROSS SECTIONS - RAMP F-2	72 - 86
CROSS SECTIONS - RAMP F-3	87 - 127
CROSS SECTIONS - ROCKSIDE ROAD	128 - 130
SUPERELEVATION TABLES	131 - 134
INTERSECTION DETAILS	135
CURB RAMP DETAILS	136 - 137
PAVEMENT JOINT DETAILS	138 - 139
ROADWAY DETAILS	140 - 141
STORM SEWER PROFILES	142
UNDERDRAIN DETAILS	143
RETAINING WALL 1	144 - 150
TRAFFIC CONTROL	151 - 168
TRAFFIC SIGNALS	169 - 178
LIGHTING PLANS	179 - 184
STRUCTURES (OVER 20' SPAN)	
CUY 077-0837E	185 - 209
SOIL PROFILES	210 - 222

FEDERAL PROJECT NUMBER

E210 (553)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF THE WIDENING AND RESURFACING OF 700 FEET OF RAMP F-2 (NORTHBOUND I-77 EXIT RAMP TO ROCKSIDE ROAD) AND 2100 FEET OF RAMP F-3 (NORTHBOUND I-77 ENTRANCE RAMP FROM ROCKSIDE ROAD). PROJECT ALSO INCLUDES THE WIDENING OF THE I-77 NORTHBOUND ENTRANCE RAMP BRIDGE (CUY-077-0837E) OVER ROCKSIDE ROAD AND TRAFFIC SIGNAL AND LIGHTING IMPROVEMENTS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	7.3 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.3 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	7.6 ACRES

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

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.

UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig
OHIO811.org Before You Dig
OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:

GPD GROUP
520 South Main Street
Akron, OH 44311
330.572.2100 Fax 330.572.2101

ENGINEER'S SEAL:
STATE OF OHIO MARK R. GROSSMAN E-61120 REGISTERED PROFESSIONAL ENGINEER
SIGNED:
DATE: 12/21/2021

ENGINEER'S SEAL:
STATE OF OHIO DAWN M. NG 58972 REGISTERED PROFESSIONAL ENGINEER
SIGNED:
DATE: 12/21/2021

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-2.1	7/17/15	MGS-1.1	7/16/21	RM-1.1	1/15/21	MT-95.30	7/19/19	TC-41.40	10/18/13	800-2019	10/15/21	WATERWAY PERMIT	2/7/22
BP-2.2	1/15/21	MGS-2.1	1/19/18	RM-4.5	7/21/17	MT-95.45	1/17/20	TC-41.50	10/18/13	807	7/16/21		
BP-2.5	7/19/13	MGS-3.1	1/19/18	RM-4.6	7/19/13	MT-97.10	4/19/19	TC-42.10	10/18/13	809	10/15/21		
BP-3.1	1/17/20	MGS-3.2	1/18/13			MT-97.11	1/20/17	TC-42.20	10/18/13	813	10/19/18		
BP-5.1	7/16/21	MGS-4.2	7/19/13			MT-99.20	4/19/19	TC-51.11	1/15/16	816	10/18/19		
BP-7.1	7/17/20	MGS-5.2	7/15/16	HL-10.11	1/15/21	MT-101.70	1/17/20	TC-51.12	1/15/16	826	1/15/16		
		MGS-5.3	7/15/16	HL-10.12	1/20/17	MT-101.90	7/17/20	TC-52.10	10/18/13	832	10/19/18		
CB-3A	7/16/21	MGS-6.1	1/19/18	HL-10.31	4/17/20	MT-102.10	1/17/20	TC-52.20	1/15/21	836	1/19/18		
CB-6	7/16/21			HL-20.11	1/15/21	MT-102.20	4/19/19	TC-65.10	1/17/14	850	4/16/21		
CB-8	7/16/21			HL-20.21	1/15/21	MT-105.10	1/17/20	TC-65.11	7/21/17	905	4/17/20		
		MH-1	7/16/21	HL-30.11	1/15/21	MT-110.10	7/19/13	TC-71.10	7/16/21	907	10/18/19		
DM-1.1	7/17/20	MH-3	7/16/21	HL-30.21	4/17/20			TC-73.20	1/17/20	909	10/15/21		
DM-1.2	7/16/21			HL-30.22	1/15/21	TC-12.31	1/21/22	TC-74.10	7/16/21	913	4/16/21		
DM-2.1	1/18/13			HL-50.11	1/16/15	TC-16.22	7/16/21	TC-81.22	7/16/21	916	10/16/20		
DM-4.2	7/20/12	AS-1-15	7/17/15	HL-60.11	7/21/17	TC-21.21	7/16/21	TC-83.20	7/21/17				
DM-4.3	1/15/16	GSD-1-19	1/15/21	HL-60.12	7/16/21	TC-22.10	4/17/20	TC-85.10	4/17/20				
DM-4.4	1/15/16	HW-2.1	7/20/18	HL-60.21	7/20/18	TC-22.20	1/17/14	TC-85.20	7/20/18				
		HW-2.2	7/20/18			TC-41.10	7/19/13						
F-1.1	7/19/13	SBR-1-20	7/17/20			TC-41.20	10/18/13						
		SICD-1-21	1/15/21			TC-41.30	10/18/13						

APPROVED
DATE 12/20/21 ENGINEER, CITY OF INDEPENDENCE

APPROVED
DATE 1/4/22 DISTRICT DEPUTY DIRECTOR

APPROVED Jade Marchbanks
DATE 2-23-22 DIRECTOR, DEPARTMENT OF TRANSPORTATION

TITLE SHEET

DESIGN AGENCY
GPD GROUP

DESIGNER	KRM
REVIEWER	CWL 01-11-21
PROJECT ID	113403
SHEET	1
TOTAL	222

CUY-77-8.37 NB RAMPS SAFETY
MODEL: Sheet PAPERSIZE: 34x22 (in.) DATE: 12/21/2021 TIME: 10:10:36 AM USER: dkzie
O:\2020\220207\041113403\400-Engineering\Roadway\Sheets\113403_GT001.dgn

Contract Proposal available @
www.contracts.dot.state.oh.us