

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

HAM-75-7.80

CITY OF CINCINNATI
HAMILTON COUNTY



LOCATION MAP

LATITUDE: 39°10'28" LONGITUDE: 84°29'23"



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

DESIGN DESIGNATION	I.R. 75	S.R. 562
CURRENT ADT (2024)	144430	69330
DESIGN YEAR ADT (2044)	173316	83196
DESIGN HOURLY VOLUME (2044)	15599	7488
DIRECTIONAL DISTRIBUTION	60 %	60%
TRUCKS (24 HOUR B&C)	16%	4%
DESIGN SPEED	60	60
LEGAL SPEED	55	55
DESIGN FUNCTIONAL CLASSIFICATION:	(01) URBAN INTERSTATE	(02) URBAN FREEWAY AND EXPRESSWAY
NHS PROJECT	YES	YES

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

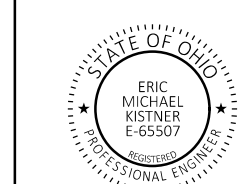
OHIO811.org
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:

10200 Alliance Road,
Suite 300
Cincinnati OH 45242
(513) 842-8200

ENGINEER'S SEAL:



SIGNED: *Eric M. Kistner*
DATE: 07/03/2024

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FEDERAL PROJECT NUMBER

FAN E240501

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THIS PROJECT INCLUDES THE DESIGN OF, FURNISHING THE MATERIALS FOR, AND INSTALLATION OF A LOAD TRANSFER PLATFORM (LTP) SUPPORTED BY RIGID INCLUSIONS ON I.R. 75 NORTHBOUND AT THE INTERCHANGE WITH S.R. 562. THE PRIMARY PURPOSE OF THE LTP AND RIGID INCLUSIONS IS TO MITIGATE PAVEMENT SETTLEMENT AND PROVIDE PERMANENT SUPPORT FOR I.R. 75.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	0.2 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	2.3 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	N/A (NOI NOT REQUIRED)*

* ROUTINE MAINTENANCE PROJECT

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.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET P.9.

DISTRICT DEPUTY DIRECTOR

Tammy K. Campbell

DIRECTOR, DEPARTMENT OF TRANSPORTATION

Jack Mahan

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-3.1	1/19/24	MT-101.70	4/21/23	800-2023	1/19/24	REFERENCE DOCUMENTS	3/22/24
BP-9.1	1/18/19	MT-101.75	7/21/23	804	1/19/24		
		MT-101.80	1/17/20	808	1/18/19		
DM-1.1	7/17/20	MT-101.90	7/17/20	809	1/19/24		
DM-1.2	7/16/21	MT-102.20	4/19/19	821	4/20/12		
DM-4.4	1/15/16	MT-103.10	1/15/22	832	7/21/23		
		MT-104.10	1/19/24	896	7/21/17		
RM-4.2	4/17/20	MT-105.10	1/17/20	902	7/19/19		
				904	7/15/22		
				908	10/20/17		
MT-95.30	7/19/19	TC-41.20	10/18/13	909	1/19/24		
MT-95.37	4/15/19	TC-42.10	10/18/13	921	4/20/12		
MT-95.45	7/21/23	TC-42.20	10/18/13	996	7/21/23		
MT-95.50	7/21/17	TC-52.10	10/18/13				
MT-99.30	1/17/20	TC-52.20	1/15/21				
MT-99.50	7/21/23	TC-65.10	1/17/14				
MT-101.60	4/21/23	TC-65.11	1/19/24				

HAM-75-7.80

MODEL: Sheet_SurvFl_PAPER SIZE: 17x11 (in.) DATE: 7/3/2024 TIME: 8:40:04 AM USER: qlachen p:\v\hoboc-pw-bentley.com\shahid-pw-02\Documents\01 Active Projects\District 08\Hamilton\119436\401-Engineering_Stantec\Roadway\Sheets\119436_GT001.dgn

TITLE SHEET

DESIGN AGENCY

10200 Alliance Road,
Suite 300
Cincinnati, OH 45242
(513) 842-8200

DESIGNER	SNS
REVIEWER	EMK 07-02-24
PROJECT ID	119436
SHEET	TOTAL
P.1	14

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

SANITARY SEWER CINCINNATI METROPOLITAN SEWER DISTRICT
ROBERT FRANKLIN
1600 GEST STREET
CINCINNATI, OH 45204
513-577-7188
MSDUTILITYREVIEW@CINCINNATI-OH.GOV
ROB.FRANKLIN@CINCINNATI-OH.GOV

STORM CINCINNATI STORMWATER MANAGEMENT UTILITY
ROBERT GOODPASTER
4747 SPRING GROVE AVENUE
CINCINNATI, OHIO 45232
513-591-7746
ROBERT.GOODPASTER@CINCINNATI-OH.GOV
SMUPLANREVIEW@CINCINNATI-OH.GOV

ODOT ITS CENTRAL OFFICE ODOT ITS
1606 WEST BROAD STREET
COLUMBUS, OH 43223
614.387.4113
CEN.ITS.LAB@DOT.OHIO.GOV

ODOT TRAFFIC MAINTENANCE ODOT DISTRICT 8
505 SOUTH STATE ROUTE 741
LEBANON, OH 45036
513.933.6689

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

UTILITY NOTIFICATION

THE OHIO DEPARTMENT OF TRANSPORTATION HAS UTILITY FACILITIES (HIGHWAY LIGHTING AND ITS) WITHIN THE LIMITS OF THIS PROJECT.

IN ADDITION TO THE INFORMATION OUTLINED IN THE 4A NOTES OF THIS CONTRACT, AND EVEN THOUGH ODOT IS LISTED AS A MEMBER OF THE OHIO UTILITIES PROTECTION SERVICES (OUPS), THE CONTRACTOR ON THIS PROJECT IS REQUIRED TO CONTACT ODOT, DISTRICT 8, TRAFFIC MAINTENANCE, AND CENTRAL OFFICE ODOT ITS DIRECTLY SO THAT THE ODOT UTILITIES, LOCATED WITHIN THIS PROJECT, ARE MARKED. THE CONTRACTOR SHALL NOTIFY DISTRICT 8 TRAFFIC MAINTENANCE AT 513-933-6689, CENTRAL OFFICE ODOT ITS AT 614-387-4113, AND THE PROJECT ENGINEER, FOURTEEN (14) CALENDAR DAYS IN ADVANCE OF ANY WORK, FOR THE NEED TO MARK ODOT'S OWNED UTILITIES.

THE ABOVE REQUIREMENTS ARE IN ADDITION TO SECTION 105.07 & 107.16 OF ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS) AND THE PROPOSAL NOTE.

THE CONTRACTOR SHALL NOTIFY OTHER UTILITIES THROUGH OUPS OR DIRECTLY A MINIMUM OF FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY WORK.

THE COST FOR THE ABOVE DESCRIBED WORK IS IDENTICAL TO THE OVERALL BID PRICE OF THE PROJECT.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. PROJECT CONTROL INFORMATION IS SHOWN ON SHEET P.12.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: STATIC GPS OBSERVATIONS FOR HORIZONTAL CONTROL AND DIFFERENTIAL LEVELING FOR VERTICAL CONTROL

MONUMENT TYPE: TYPE A

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD 88
GEOID: 03

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 83 (1995)
ELLIPSOID: GRS 80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE (SOUTH ZONE)
COMBINED SCALE FACTOR: 0.999916593
ORIGIN OF COORDINATE
SYSTEM: NORTHING: 0.0, EASTING 0.0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 623.

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY FEET.

UNDERDRAIN CONNECTIONS

ALL EXISTING UNDERDRAINS SHALL BE CONNECTED INTO THE PROPOSED UNDERDRAINS AS SHOWN IN UNDERDRAIN PLAN AND DETAILS. SECTIONS OF EXISTING UNDERDRAIN DESIGNATED TO BE REMOVED SHALL BE CONSIDERED TO BE INCIDENTAL TO THE EXCAVATION. ALL MATERIAL, LABOR AND INCIDENTALS, INCLUDING BENDS AND BRANCHES NECESSARY TO PROVIDE THE CONNECTION OF THE EXISTING UNDERDRAINS SHALL BE INCLUDED IN ITEM 611 - 6" CONDUIT, TYPE F.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 611, 6" CONDUIT, TYPE F 20 FT

ITEM SPECIAL - STRUCTURES, MISC.: DETENTION VAULT INSPECTION

AS PART OF THE HAM-75-6.78 PROJECT A PRECAST UNDERGROUND VAULT SYSTEM WAS INSTALLED IN THE INFELD ADJACENT TO I.R. 75 NB AND SR 562 EB. PRIOR TO ANY WORK AT THE SITE, PROTECT THE EXISTING MANHOLES IN THE INFELD OF I.R. 75 NB TO SR 562 EB THAT SERVE THE UNDERGROUND DETENTION VAULT. ADDITIONALLY, STAKE THE LIMITS OF THE UNDERGROUND VAULT SUCH THAT EQUIPMENT AND STORAGE LIMITATIONS CAN EASILY BE DETERMINED IN THE FIELD. SHOP DRAWINGS OF THE DETENTION VAULT WILL BE INCLUDED IN THE SPECIAL PROVISIONS PACKAGE. INSPECT AND DOCUMENT THE EXISTING CONDITION OF THIS STRUCTURE BEFORE AND AFTER THE WORK. A REPORT, STAMPED BY A REGISTERED ENGINEER, SHALL BE SUBMITTED TO THE ENGINEER DOCUMENTING THE EXISTING CONDITION OF THIS STRUCTURE PRIOR TO THE WORK. THE REPORT SHALL INCLUDE DISCUSSIONS AND RECOMMENDATIONS OF ANY NECESSARY REPAIRS. A SECOND REPORT SHALL BE SUBMITTED DOCUMENTING THE CONDITION OF THE STRUCTURE AFTER THE WORK. CORRECTION TO THE UNDERGROUND VAULT SYSTEM DUE TO DAMAGE CAUSED BY THE LOAD TRANSFER PLATFORM INSTALLATION (INCLUDING TEMPORARY LOADS IMPARTED DURING CONSTRUCTION), WILL NOT BE CONSIDERED FOR ADDITIONAL COMPENSATION.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE LUMP SUM BID PRICE FOR ITEM SPECIAL - STRUCTURES, MISC.: DETENTION VAULT INSPECTION AND SHALL INCLUDE ALL MATERIALS, EQUIPMENT, LABOR, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

ITEM 832 - EROSION CONTROL

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR LOCATING, FURNISHING, INSTALLING, AND MAINTAINING TEMPORARY SEDIMENT AND EROSION CONTROL FOR EARTH DISTURBED AREAS.

ITEM 832, EROSION CONTROL 1000 EACH

ITEM 611 - DRAINAGE STRUCTURE MISC.: DRAINAGE SYSTEM INSPECTION

THE PROPOSED WORK CANNOT IMPACT THE EXISTING STORMWATER VAULT IN A TEMPORARY OR PERMANENT MANNER. STOCKPILING OF CONSTRUCTION MATERIALS OVER THE EXISTING VAULT IS LIMITED TO A MAXIMUM DEPTH OF 5 FT. STREET LEGAL EQUIPMENT CAN BE PARKED OR TRAVERSE OVER THE VAULT. CONSTRUCTION EQUIPMENT SUCH AS CRANES, DRILL RIGS, ETC. ARE PROHIBITED FROM TRAVELLING OVER THE EXISTING STORMWATER VAULT. PERFORMANCE OF A PRECONSTRUCTION AND POST CONSTRUCTION SURVEY IS A CONTRACT REQUIREMENT.

PRIOR TO COMMENCEMENT OF ANY WORK, INSPECT AND DOCUMENT THE EXISTING CONDITIONS OF ALL DRAINAGE STRUCTURES AND CONDUITS FROM STA. 412+50 TO STA. 415+00 ON I.R. 75 NORTHBOUND. THE INITIAL INSPECTION WILL SERVE AS THE BASELINE CONDITIONS. FOLLOWING COMPLETION OF THE LOAD TRANSFER PLATFORM WORK, RE-INSPECT AND DOCUMENT THE DRAINAGE STRUCTURES AND CONDUITS. PROVIDE A DRAINAGE INSPECTION REPORT TO THE DEPARTMENT PRIOR TO THE FULL-DEPTH PAVEMENT WORK. THE DRAINAGE INSPECTION REPORT DETAILED THE INSPECTION AND DOCUMENTATION OF ALL DRAINAGE STRUCTURES AND CONDUITS PRIOR TO AND AFTER THE WORK SHALL CONFORM TO A PERFORMANCE INSPECTION PER C&MS 611.12. OUTLINE RECOMMENDATIONS NEEDED FOR DRAINAGE CORRECTIONS DUE TO DAMAGE CAUSED BY THE LOAD TRANSFER PLATFORM INSTALLATION. CORRECTION OF DAMAGE TO THE DRAINAGE SYSTEM WILL NOT BE CONSIDERED FOR ADDITIONAL COMPENSATION.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE LUMP SUM BID PRICE FOR ITEM 611 - DRAINAGE STRUCTURE, MISC.: DRAINAGE SYSTEM INSPECTION AND SHALL INCLUDE ALL MATERIALS, EQUIPMENT, LABOR, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK

CONTRACTOR COORDINATION

PID 119436 AND PID 102886 (HAM-562 REHABILITATION) WILL BE UNDER CONSTRUCTION AT THE SAME TIME. PID 102886 WILL HAVE THE MOTPE DIRECTIONAL CLOSURES (80 DAYS PER DIRECTION) AND OVERNIGHT LANE CLOSURES. THE CONTRACTOR FOR PID 119436 SHALL COORDINATE THEIR WORK AND MOT WITH THE ADJACENT PROJECT; WORK AND MOT ON PID 102886 GOVERNS AND CONTROLS.

PID 77889 (DESIGN BUILD PROJECT FOR THE REPLACEMENT OF THREE RAILROAD BRIDGES OVER PROSSER, I75, AND SR562 ALONG WITH A MINOR REALIGNMENT OF I75) WILL BE UNDER CONSTRUCTION AT THE SAME TIME. IT IS ANTICIPATED PID 77889 WILL HAVE TRAFFIC SHIFTED IN THE NORTHBOUND DIRECTION. THE CONTRACTOR FOR PID 119436 SHALL COORDINATE THEIR WORK AND MOT WITH PID 77889.

THE INFELD AREA NORTH OF THE ROSS RUN SEWER (14' X 20') (MSD) IS CURRENTLY BEING USED AS A WASTE AREA FOR PID 77889.

THE FOLLOWING ESTIMATED QUANTITIES LISTED BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 614 WORK ZONE RAISED PAVEMENT MARKER 100 EACH
ITEM 614 WORK ZONE EDGE LINE, CLASS I 0.2 MILE
ITEM 614 WORK ZONE CHANNELIZING LINE, CLASS I, 12" 1000 FT

DESIGN AGENCY

Stantec
10200 Alliance Road,
Suite 300
Cincinnati, OH 45242
(513) 842-6200
DESIGNER
SNS
REVIEWER
EMK 07-02-24
PROJECT ID
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P.3 | 14

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SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
3-5	6-8		11								01/IMS/06	EXT	TOTAL				
ROADWAY																	
			504								504	202	23001	504	SY	PAVEMENT REMOVED, AS PER PLAN	4
			504								504	202	23500	504	SY	WEARING COURSE REMOVED	
			735								735	203	10000	735	CY	EXCAVATION	
			100								100	203	20000	100	CY	EMBANKMENT	
605											605	203	98100	605	SY	ROADWAY, MISC.: RIGID INCLUSIONS	5
LS											LS	SPECIAL	69098400	LS		CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION	5
EROSION CONTROL																	
			1,133								1,133	659	00300	1,133	CY	TOPSOIL	
			10,200								10,200	659	10000	10,200	SY	SEEDING AND MULCHING	
			1.38								1.38	659	20000	1.38	TON	COMMERCIAL FERTILIZER	
			2.11								2.11	659	31000	2.11	ACRE	LIME	
			56								56	659	35000	56	MGAL	WATER	
1,000											1,000	832	30000	1,000	EACH	EROSION CONTROL	
DRAINAGE																	
LS			189								LS	SPECIAL	53000200	LS		STRUCTURES, MISC.: DETENTION VAULT INSPECTION	3
											189	605	11100	189	FT	6" SHALLOW PIPE UNDERDRAINS	
20											20	611	01500	20	FT	6" CONDUIT, TYPE F	
LS											LS	611	99920	LS		DRAINAGE STRUCTURE, MISC.: DRAINAGE SYSTEM INSPECTION	3
PAVEMENT																	
			177								177	302	56000	177	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
			87								87	304	20000	87	CY	AGGREGATE BASE	
			84								84	407	10000	84	GAL	TACK COAT	
			21								21	442	22100	21	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)	
			21								21	442	22300	21	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (449)	
			95								95	618	40100	95	FT	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
TRAFFIC SURVEILLANCE																	
LS											LS	809	70000	LS		MAINTAINING ITS DURING CONSTRUCTION	
TRAFFIC CONTROL																	
			4								4	621	00100	4	EACH	RPM	
			0.04								0.04	644	00104	0.04	MILE	EDGE LINE, 6"	
			0.04								0.04	644	00204	0.04	MILE	LANE LINE, 6"	
MAINTENANCE OF TRAFFIC																	
	500										500	614	11110	500	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
	LS										LS	614	12420	LS		DETOUR SIGNING	
100											100	614	12800	100	EACH	WORK ZONE RAISED PAVEMENT MARKER	
	20										20	614	18600	20	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN	
	0.12										0.12	614	20110	0.12	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT	
	0.1										0.1	614	20560	0.1	MILE	WORK ZONE LANE LINE, CLASS II, 6", 642 PAINT	
0.2											0.2	614	22010	0.2	MILE	WORK ZONE EDGE LINE, CLASS I, 6"	
	0.12										0.12	614	22110	0.12	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT	
	0.05										0.05	614	22360	0.05	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
1,000											1,000	614	23010	1,000	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12"	
	1										1	616	10000	1	MGAL	WATER	
	2										2	808	18700	2	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
	8										8	896	00010	8	SNMT	PORTABLE NON-INTRUSIVE TRAFFIC SENSOR, CLASS I	
	2										2	896	00021	2	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	8
INCIDENTALS																	
											LS	614	11000	LS		MAINTAINING TRAFFIC	
											LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

DESIGN AGENCY

Stantec
10200 Alliance Road,
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Cincinnati, OH 45242
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