

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

DEL-23-BRIDGE REPAIR

CITY OF DELAWARE
DELAWARE COUNTY

FEDERAL PROJECT NUMBER

E220(118)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

REPAIRING DETERIORATED APPROACH SLABS FOR MAINLINE US 23 STRUCTURES OVER OLENTANGY AVENUE, WILLIAM STREET, WINTER STREET, CENTRAL AVENUE AND LINCOLN AVENUE.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.0 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)

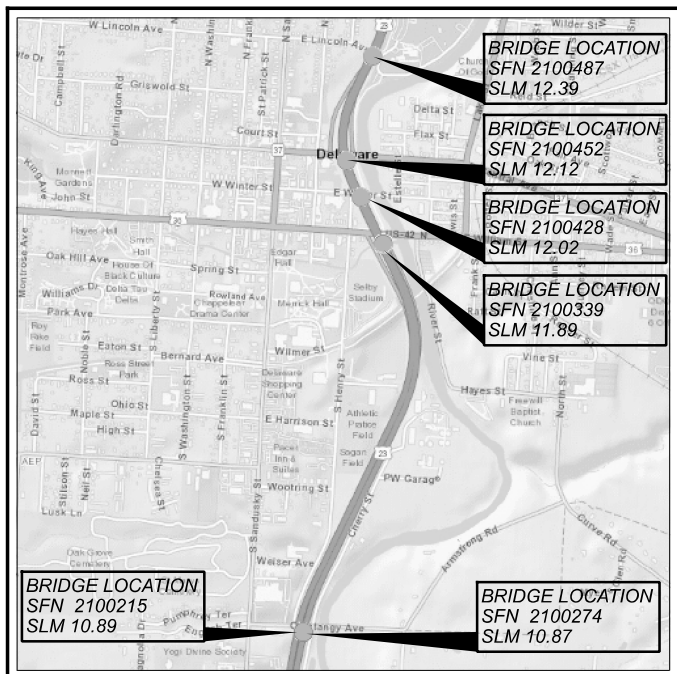
LIMITED ACCESS

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.



LOCATION MAP

LATITUDE: 40°17'38" N LONGITUDE: 83°03'40" W



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

DESIGN DESIGNATION

CURRENT ADT (2022)	-----	28,812
DESIGN YEAR ADT (2032)	-----	37,092
DESIGN HOURLY VOLUME (2032)	-----	1,686
DIRECTIONAL DISTRIBUTION	-----	65%
TRUCKS (24 HOUR B&C)	-----	11%
DESIGN SPEED	-----	60 MPH
LEGAL SPEED	-----	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:		
02 OTHER FREEWAYS OR EXPRESSWAYS (URBAN)		
NHS PROJECT	-----	YES

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

Before You Dig

OHIO 811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
RESOURCE INTERNATIONAL INC.
6350 PRESIDENTIAL GATEWAY
COLUMBUS, OHIO 43231
(614) 823-4949

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ENGINEER'S SEAL:

SIGNED: _____

DATE: _____

ENGINEER'S SEAL:



SIGNED:
DATE: 2/7/22

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	1/21/22	MT-95.30	7/19/19	800 1/21/22	
		TC-65.10	1/17/14	832 10/19/18	
		TC-65.11	7/21/17		

APPROVED
DATE 4/18/22 DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

DEL-23-7.60

MODEL: TITLE SHEET PAPER SIZE: 17x11 (in.) DATE: 4/18/2022 TIME: 1:01:16 PM USER: juans G:\Design_Connect\Projects\2021\11-21-198 DEL-23-7.60\115987\400-Engineering\Roadway\Sheets\115987_GT001.dgn

TITLE SHEET

DESIGN AGENCY

6350 PRESIDENTIAL GATEWAY
COLUMBUS, OHIO 43231
(614) 823-4949

DESIGNER
JWE

REVIEWER
SSK 2/2/22

PROJECT ID
115987

SHEET TOTAL
P.1 | 12

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA.

SURVEYING PARAMETERS

PROJECT STATIONING IS BASED ON FUTURE PLANS DEL-23-7.60 BRIDGE (PID # 109156), CURRENTLY SCHEDULED FOR SALE IN 2025. THE OHIO DEPARTMENT OF TRANSPORTATION SHOULD BE CONTACTED, AS NEEDED, FOR HORIZONTAL AND VERTICAL LOCATIONS OF CONTROL POINTS ESTABLISHED FOR THAT PROJECT RELATED TO THE OHIO STATE PLANE (NORTH) COORDINATE SYSTEM AND THE NAVD 88 DATUM.

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

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 10 PM AND 6 AM. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

PROFILE AND ALIGNMENT

PROPOSED PAVEMENT IS TO BE PLACED FOLLOWING THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY (WITH A UNIFORM THICKNESS OF 1-1/2 INCHES).

DESIGN AGENCY



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115987

SHEET TOTAL
P.2 | 12

MODEL: Sheet PAPER: 17x11 (in.) DATE: 7/19/2022 TIME: 3:35:20 PM USER: bradyb
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ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF ONE 10' LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ALONG U.S. 23 BY USE OF THE EXISTING PAVEMENT AND THE COMPLETED PAVEMENT.

THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE AS DESIGNATED IN THE LANE CONTRACT TABLE FOR EACH UNIT OF TIME A LANE OR SHOULDER IS CLOSED BY THE CONTACTOR'S ACTION WHILE NOT OTHERWISE PERMITTED BY THE LANE VALUE CONTRACT TABLE.

LANE VALUE CONTRACT TABLE						
SECTION (SLM)	EXISTING NUMBER OF LANES PER DIRECTION	LANE CLOSURES ARE NOT PERMITTED			DIS-INCENTIVES PER MINUTE PER LANE	
		LANE REDUC-TION	MON TO FRI	SAT SUN		
DEL-23						
SR-315 (8.77) TO COOVER ROAD (15.60)	2	2 TO 1	6AM-9AM & 2PM-7PM	NO RESTRIC-TION	NO RESTRIC-TION	\$170
SHORT TERM SHOULDER CLOSURES ARE NOT PERMITTED 6AM-9AM AND 3PM-7PM MONDAY-FRIDAY.						
NO LANE CLOSURES ALLOWED 3 HOURS PRIOR TO KICKOFF TO 3 HOURS FOLLOWING THE END OF THE GAME ON OSU HOME FOOTBALL SATURDAYS.						

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

- CHRISTMAS FOURTH OF JULY
- NEW YEAR'S LABOR DAY
- MEMORIAL DAY THANKSGIVING
- WEEK OF THE LITTLE BROWN JUG

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	6:00AM WEDNESDAY THROUGH 6:00AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

ITEM 614, MAINTAINING TRAFFIC (CONT'D)

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS ARE:

APPROXIMATELY 1,750' SOUTH OF THE NORTHBOUND MOT BEGIN LANE TAPER, PER MT-95.30

APPROXIMATELY 1,750' NORTH OF THE SOUTHBOUND MOT BEGIN LANE TAPER, PER MT-95.30

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

THE CONTRACTOR SHALL IMPLEMENT A SYSTEM WHEREBY CHANGEABLE MESSAGES WILL BE IMPLEMENTED WITHIN 2 HOURS FOLLOWING TELEPHONE NOTIFICATION FROM THE PROJECT ENGINEER TO A DESIGNATED PHONE.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN (CONT'D)

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 1.5 SIGN MONTH ASSUMING 1 PCMS SIGN FOR 1-1/2 MONTHS

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE ODOT INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE ODOT, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.

FOR OPERATIONS WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET ALL OF THE FOLLOWING CRITERIA:
ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND
AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION

"WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS, CONES, SHADOW VEHICLE, ETC, WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED.

IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION, PER MAINLINE TRAFFIC DIRECTION, PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF:
THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER; OR
THE ACTIVE WORK AREA LATERALLY CLOSEST TO THE OPEN TRAVELED LANE; OR
OTHER LOCATION AS APPROVED BY THE ENGINEER.
THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

DESIGN AGENCY



6350 PRESIDENTIAL GATEWAY
COLUMBUS, OHIO 43231
(614) 823-4549

DESIGNER
JAS

REVIEWER
BBB 02-07-22

PROJECT ID
115987

SHEET TOTAL
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ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONT'D)

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 100 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONST. & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

SEQUENCE OF CONSTRUCTION

THE FOLLOWING IS A SUGGESTED SEQUENCING OF THE PROPOSED CONSTRUCTION FOR THIS PROJECT.

PHASE 1 - WITH THE ASSISTANCE OF A LAW ENFORCEMENT OFFICER WITH PATROL CAR, SIGNAGE AND BARRIERS ARE TO BE SET-UP FOR LANE CLOSURE PER MT-95.30 TO THE SATISFACTION OF THE PROJECT ENGINEER.

BECAUSE "POSITIVE PROTECTION" IS NOT PROPOSED FOR MAINTENANCE OF TRAFFIC USE AND PROPOSED WORK IS TO PROCEED WITHIN 10' OF TRAFFIC, A LEO SHOULD BE UTILIZED DURING WORK ACTIVITY.

AFTER THESE ARRANGEMENTS HAVE OCCURRED, PROPOSED WORK CAN PROCEED ON THE CLOSED LANE. (UNLESS PROPOSED WORK ON CONSECUTIVE BRIDGES IS WITHIN 1,000' OF EACH OTHER IT IS NOT RECOMMENDED THAT A LANE CLOSURE EXTEND BETWEEN WORK AREAS.)

OVERNIGHT LANE CLOSURES SHALL NOT BE PERMITTED.

BEFORE REOPENING TO TRAFFIC, SECTIONS OF ROADWAY BEING WORKED ON SHALL BE RESTORED TO AN ACCEPTABLE CONDITION IN COMPLIANCE WITH THE PROVISIONS OF ITEM 614 - MAINTAINING TRAFFIC AND ANY APPLICABLE STANDARD DRAWINGS.

PHASE 2 - WORK IS TO PROCEED ON THE OTHER HALF OF THE ROADWAY IN A SIMILAR MANNER AS DESCRIBED FOR PHASE 1.

IT IS EXPECTED THAT PHASE 2 WORK WILL BE COMPLETED ON BRIDGE(S) FOR WHICH PHASE 1 WORK HAS BEEN COMPLETED BEFORE MOVING TO THE NEXT WORK AREA.


TEMPORARY PAVEMENT MARKINGS PAID FOR UNDER ITEM 614- MAINTAINING TRAFFIC ARE TO BE PLACED UPON COMPLETION OF PHASE 2 WORK.

PHASE 3 - AFTER COMPLETION OF ROADWAY IMPROVEMENTS AT ALL TEN WORK AREAS, PERMANENT PAVEMENT MARKINGS ARE TO BE PLACED WITHIN 14 DAYS. ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONDITION.



SHEET NUM.										PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
P.3	P.6	P.7	P.8	P.9	P.10	P.11				01/NHS/BR	EXT	TOTAL				
															ROADWAY	
	1	1	1	1	1	1				6	202	11301	6	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	6-11
															PAVEMENT	
	115	115	226	224	228	268				1,176	254	01000	1,176	SY	PAVEMENT PLANING, ASPHALT CONCRETE(1 1/2" THICK)	
	144	144	282	280	285	235				1,370	254	01010	1,370	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE(1 1/2" THICK)	
	25	25	47	47	48	56				248	407	20000	248	GAL	NON-TRACKING TACK COAT	
	12	12	22	22	22	26				116	442	22100	116	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)	
	100	100	200	200	200	200				1,000	519	11101	1,000	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	6-11
															MAINTENANCE OF TRAFFIC	
100										100	614	11110	100	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	2
1.5										1.5	614	18601	1.5	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	2
															TRAFFIC CONTROL	
	0.04	0.04	0.08	0.08	0.08	0.08				0.4	644	00100	0.4	MILE	EDGE LINE, 4"	
	0.02	0.02	0.04	0.04	0.04	0.04				0.2	644	00200	0.2	MILE	LANE LINE, 4"	
															INCIDENTALS	
LS										LS	614	11000	LS		MAINTAINING TRAFFIC	2
LS										LS	624	10000	LS		MOBILIZATION	2

GENERAL SUMMARY

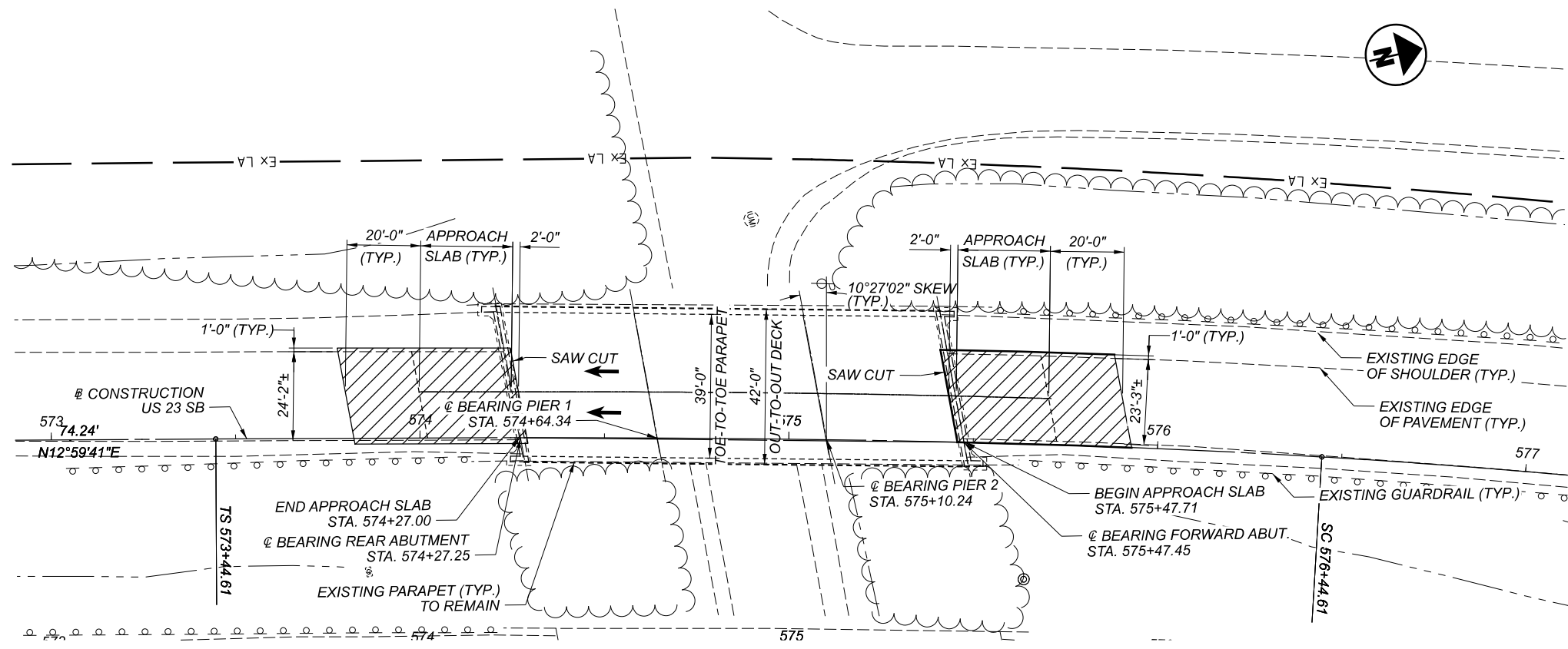
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DESIGNER
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REVIEWER
 SSK 2/2/22

PROJECT ID
 115987

SHEET TOTAL
 P.5 | 12



PLAN

BENCHMARK DATA

BM #	STA.	ELEV.	OFFSET
BM #1	STA.	ELEV.	OFFSET
BM #2	STA.	ELEV.	OFFSET
BM #3	STA.	ELEV.	OFFSET
BM #4	STA.	ELEV.	OFFSET

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET

NOTES

- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
- ITEM 519 SHALL BE FOR PATCHING AT THE JOINT AND APPROACH SLABS AS DIRECTED BY THE ENGINEER.

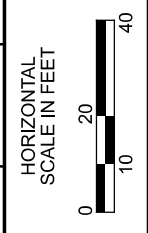
DESIGN TRAFFIC:

2021 ADT = 37650 2021 ADTT = 4140

DIRECTIONAL DISTRIBUTION = 0.60

LEGEND

1 1/2" DEEP MILLING & OVERLAY LIMITS



SITE PLAN
BRIDGE NO. DEL-23-10.87L
US 23 OVER OLENTANGY AVENUE

NOTES:

ITEM 202 PORTIONS OF STRUCTURE REMOVED, AS PER PLAN
 THIS ITEM SHALL INCLUDE SAWCUTTING OF CONCRETE SLAB AND MILLING 1 1/2" THICKNESS OF THE EXISTING CONCRETE DETAILED IN THE PLANS AND DIRECTED BY THE ENGINEER.

ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN
 CONTRACTOR SHALL FOLLOW CMS 519 FOR PATCHING OF CONCRETE, EXCEPT CONCRETE SHALL BE CLASS QC MS MATERIAL.

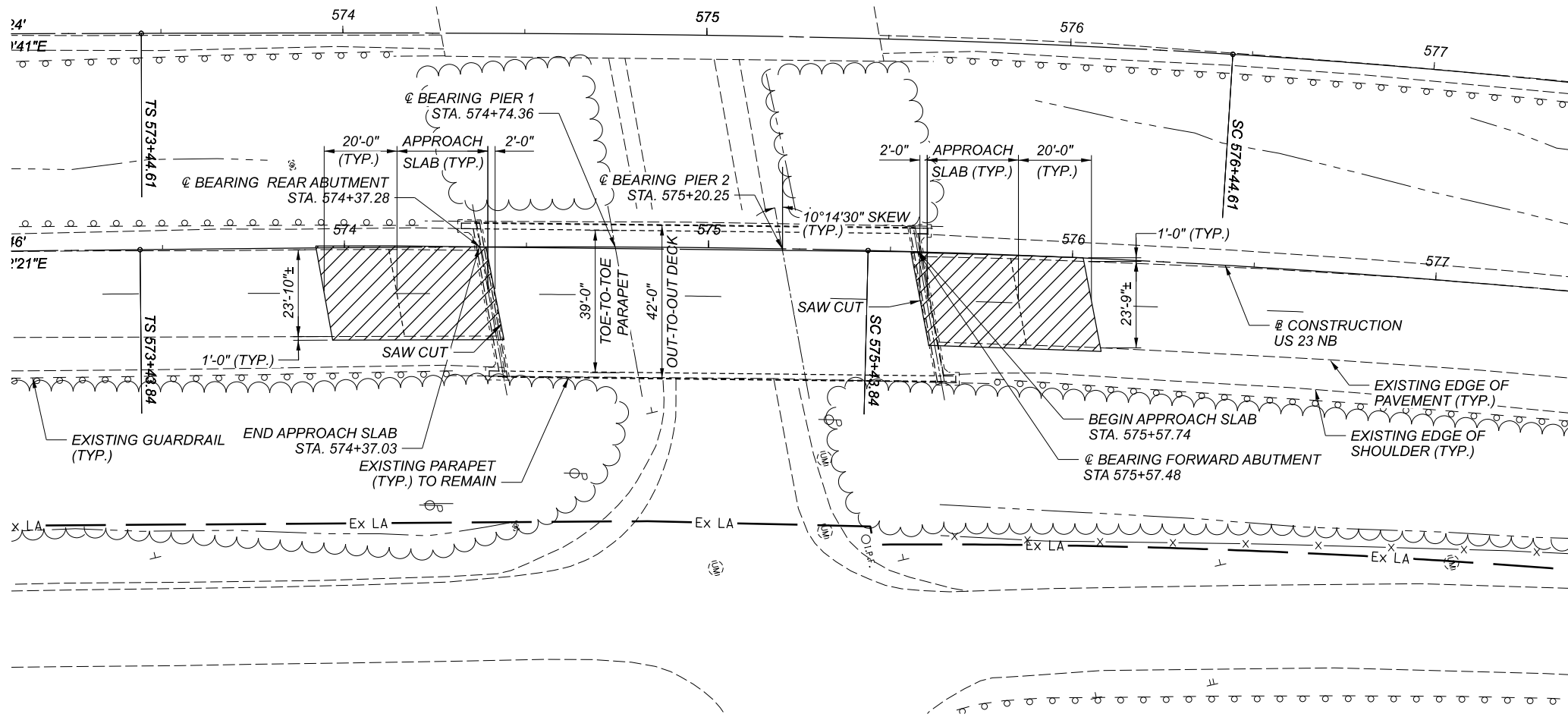
ROADWAY ESTIMATED QUANTITIES

ITEM	EXT.	TOTAL	UNIT	DESCRIPTION	DATE: 2/1/22		SHEET NO.
					SUPER.	GENERAL	
202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1		6
254	01000	115	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1 1/2" THICK)		115	
254	01010	144	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1 1/2" THICK)		144	
519	11101	100	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN		100	6
407	20000	25	GAL	NON-TRACKING TACK COAT		25	
442	22100	12	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)		12	
644	00100	0.02	MILE	EDGE LINE, 4" (YELLOW)		0.02	
644	00100	0.02	MILE	EDGE LINE, 4" (WHITE)		0.02	
644	00200	0.02	MILE	LANE LINE, 4"		0.02	

EXISTING STRUCTURE

TYPE: 3 SPAN CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE ON REINFORCED CONCRETE U-TYPE ABUTMENTS ON STEEL PILES AND CONCRETE PIERS ON SPREAD FOOTINGS.
 SPANS: 36.55± - 45.68± - 36.55± C/C BEARINGS ALONG BASELINE
 ROADWAY: 39'-0"± TOE/TOE PARAPET
 LOADING: CF 2000 (57)
 SKEW: 09° 51' 17" RIGHT FORWARD TO REFERENCE CHORD
 WEARING SURFACE: 1 1/4"± THICK LATEX MODIFIED CONCRETE OVERLAY
 APPROACH SLABS: 25'-0"± LONG
 ALIGNMENT: 3° 45' SPIRAL RT. CURVE
 CROWN: VARIES
 STRUCTURE FILE NUMBER: 2100215
 DATE BUILT: 1966
 COORDINATES: LATITUDE 40° 17' 04.03" N
 LONGITUDE 83° 03' 59.91" W

SFN	2100215
DESIGN AGENCY	RESOURCE INTERNATIONAL
DESIGNER/CHECKER	JWE JWE
REVIEWER	SSK 2/2/22
PROJECT ID	115987
SUBSET	1 TOTAL 7
SHEET	P.6 TOTAL 12



PLAN



BENCHMARK DATA

BM #1 STA.	ELEV.	OFFSET
BM #2 STA.	ELEV.	OFFSET
BM #3 STA.	ELEV.	OFFSET
BM #4 STA.	ELEV.	OFFSET

FOR ADDITIONAL BENCHMARK INFORMATION, SEE ROADWAY PLAN SHEET

NOTES

- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
- ITEM 519 SHALL BE FOR PATCHING AT THE JOINT AND APPROACH SLABS AS DIRECTED BY THE ENGINEER.

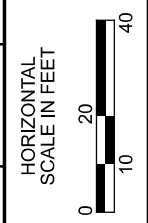
DESIGN TRAFFIC:

2021 ADT = 37650 2021 ADTT = 4140

DIRECTIONAL DISTRIBUTION = 0.60

LEGEND

1 1/2" DEEP MILLING & OVERLAY LIMITS



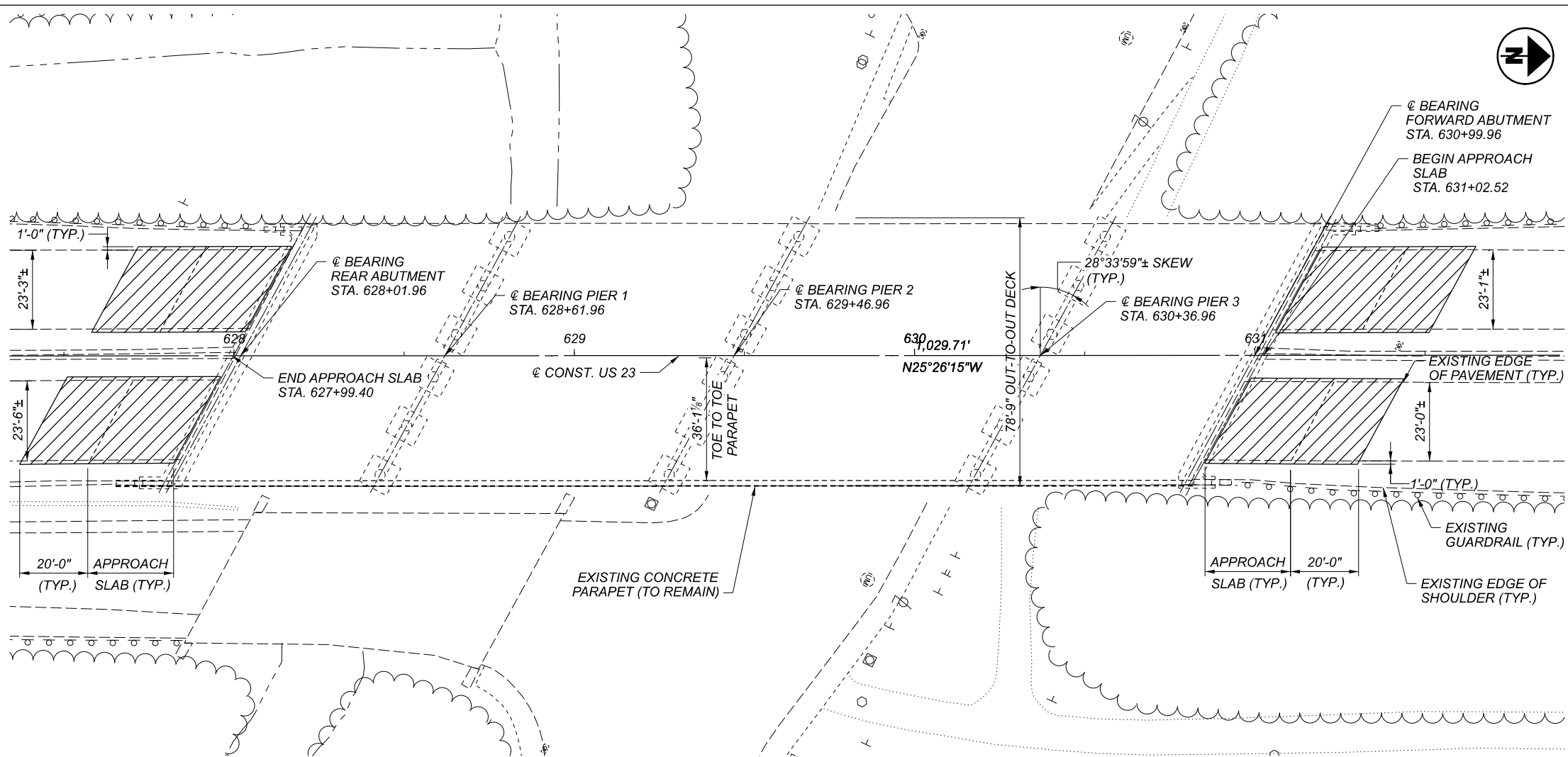
SITE PLAN
BRIDGE NO. DEL-23-10.87R
US 23 OVER OLENTANGY AVENUE

ROADWAY ESTIMATED QUANTITIES					DATE: 2/1/22		DATE:	
ITEM	EXT.	TOTAL	UNIT	DESCRIPTION	SUPER.	GENERAL	CHECKED BY:	
202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1			6
254	01000	115	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1 1/2" THICK)		115		
254	01010	144	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1 1/2" THICK)		144		
519	11101	100	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN		100		6
407	20000	25	GAL	NON-TRACKING TACK COAT		25		
442	22100	12	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)		12		
644	00100	0.02	MILE	EDGE LINE, 4" (YELLOW)		0.02		
644	00100	0.02	MILE	EDGE LINE, 4" (WHITE)		0.02		
644	00200	0.02	MILE	LANE LINE, 4"		0.02		

EXISTING STRUCTURE

TYPE: 3 SPAN CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE ON REINFORCED CONCRETE ABUTMENTS ON STEEL PILES AND CONCRETE PIERS ON SPREAD FOOTINGS.
 SPANS: 36.55± - 45.68± - 36.55± C/C BEARINGS ALONG BASELINE
 ROADWAY: 39'-0"± TOE/TOE PARAPET
 LOADING: CF 2000 (57)
 SKEW: 09° 51' 17" RIGHT FORWARD TO REFERENCE CHORD
 WEARING SURFACE: 1 1/4"± THICK LATEX MODIFIED CONCRETE OVERLAY
 APPROACH SLABS: 25'-0"± LONG
 ALIGNMENT: 2° 00' SPIRAL RT. CURVE
 CROWN: VARIES
 STRUCTURE FILE NUMBER: 2100274
 DATE BUILT: 1966
 COORDINATES: LATITUDE 40° 17' 04.03" N
 LONGITUDE 83° 03' 59.91" W

SFN	2100274
DESIGN AGENCY	
DESIGNER	JWE
CHECKER	JWE
REVIEWER	SSK
DATE	2/2/22
PROJECT ID	115987
SUBSET	2
TOTAL	7
SHEET	P.7
TOTAL	12



PLAN

BENCHMARK DATA			
BM #1 STA.	ELEV.	OFFSET	
BM #2 STA.	ELEV.	OFFSET	
BM #3 STA.	ELEV.	OFFSET	
BM #4 STA.	ELEV.	OFFSET	

FOR ADDITIONAL BENCHMARK INFORMATION, SEE ROADWAY PLAN SHEET

- NOTES**
- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
 - ITEM 519 SHALL BE FOR PATCHING AT THE JOINT AND APPROACH SLABS AS DIRECTED BY THE ENGINEER.

DESIGN TRAFFIC:
 2021 ADT = 23730 2021 ADTT = 2302
 DIRECTIONAL DISTRIBUTION = 0.65

LEGEND
 1 1/2" DEEP MILLING & OVERLAY LIMITS

- NOTES:**
- ITEM 202 - PORTIONS OF STRUCTURES REMOVED, AS PER PLAN: THIS ITEM SHALL INCLUDED THE MILLING 1 1/2" THICKNESS OF EXISTING CONCRETE BACK WALL AS DETAILED IN THE PLANS AND AS DIRECTED BY THE ENGINEER.
 - ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN CONTRACTOR SHALL FOLLOW CMS 519 FOR PATCHING OF CONCRETE, EXCEPT CONCRETE SHALL BE CLASS QC MS MATERIAL.

ROADWAY ESTIMATED QUANTITIES					DATE: 2/1/22	DATE:	
ITEM	EXT.	TOTAL	UNIT	DESCRIPTION	ABUT.	GENERAL	
					CALC BY: JWE		CHECKED BY:
					ABUT.	GENERAL	SHEET NO.
202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1		8
254	01000	226	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1 1/2" THICK)		226	
254	01010	282	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1 1/2" THICK)		282	
519	11101	200	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN		200	8
407	20000	47	GAL	NON-TRACKING TACK COAT		47	
442	22100	22	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)		22	
644	00100	0.04	MILE	EDGE LINE, 4" (YELLOW)		0.04	
644	00100	0.04	MILE	EDGE LINE, 4" (WHITE)		0.04	
644	00200	0.04	MILE	LANE LINE, 4"		0.04	

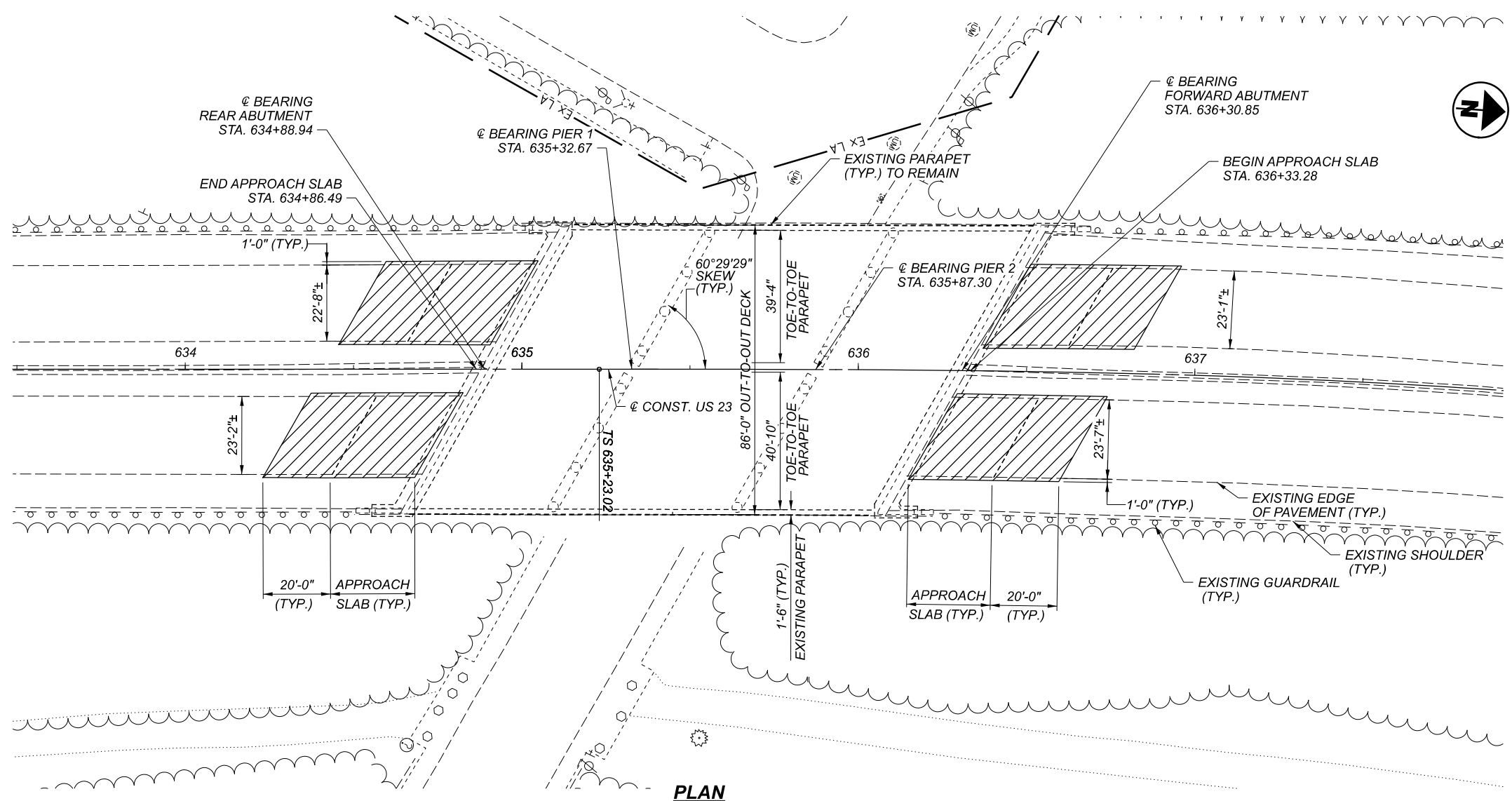
EXISTING STRUCTURE	
TYPE: 4 SPAN CONTINUOUS STEEL BEAM BRIDGE WITH NON-COMPOSITE CONCRETE DECK ON CONCRETE ABUTMENTS AND PIERS ON STEEL PILES AND SPREAD FOOTING.	
SPANS: 60.0' - 85.00' - 90.0' - 63.0' C/C BEARINGS	
ROADWAY: 36'-1"± (NB), 34'-7"± (SB) TOE/TOE PARAPET	
LOADING: CF 2000 (57)	
SKEW: 28° 33' 59" LEFT FORWARD	
WEARING SURFACE: 1 1/2"± THICK LATEX MODIFIED CONCRETE	
APPROACH SLABS: 25'-0"± LONG	
ALIGNMENT: TANGENT	
CROWN: .016 FT/FT	
STRUCTURE FILE NUMBER: 2100339	
DATE BUILT: 1966	
COORDINATES: LATITUDE 40° 17' 53.16" N	
LONGITUDE 83° 03' 45.58" W	



SITE PLAN
 BRIDGE NO. DEL-23-11.89
 US 23 OVER US 36 AND DELAWARE RUN

SFN	2100339
DESIGN AGENCY	
DESIGNER	JWE
CHECKER	JWE
REVIEWER	SSK
DATE	2/2/22
PROJECT ID	115987
SUBSET	3
TOTAL	7
SHEET	P.8
TOTAL	12

MODEL: Sheet_PAPER: 17x11 (in.) DATE: 7/20/2022 TIME: 1:44:47 PM USER: jme
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PLAN

BENCHMARK DATA

BM #	STA.	ELEV.	OFFSET
BM #1	STA.	ELEV.	OFFSET
BM #2	STA.	ELEV.	OFFSET
BM #3	STA.	ELEV.	OFFSET
BM #4	STA.	ELEV.	OFFSET

FOR ADDITIONAL BENCHMARK INFORMATION, SEE ROADWAY PLAN SHEET

NOTES

- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
- ITEM 519 SHALL BE FOR PATCHING AT THE JOINT AND APPROACH SLABS AS DIRECTED BY THE ENGINEER.

DESIGN TRAFFIC:

2021 ADT = 23730 2021 ADTT = 2302
 DIRECTIONAL DISTRIBUTION = 0.65

LEGEND

1 1/2" DEEP MILLING & OVERLAY LIMITS

NOTES:

ITEM 202 - PORTIONS OF STRUCTURES REMOVED, AS PER PLAN: THIS ITEM SHALL INCLUDED THE MILLING 1 1/2" THICKNESS OF EXISTING CONCRETE BACK WALL AS DETAILED IN THE PLANS AND AS DIRECTED BY THE ENGINEER.

ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN CONTRACTOR SHALL FOLLOW CMS 519 FOR PATCHING OF CONCRETE, EXCEPT CONCRETE SHALL BE CLASS QC MS MATERIAL.

ROADWAY ESTIMATED QUANTITIES

DATE: 2/1/22
 CALC BY: JWE

DATE:
 CHECKED BY:

ITEM	EXT.	TOTAL	UNIT	DESCRIPTION	DATE: 2/1/22		SHEET NO.
					ABUT.	GENERAL	
202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1		9
254	01000	224	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1 1/2" THICK)		224	
254	01010	280	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1 1/2" THICK)		280	
519	11101	200	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN		200	9
407	20000	47	GAL	NON-TRACKING TACK COAT		47	
442	22100	22	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)		22	
644	00100	0.04	MILE	EDGE LINE, 4" (YELLOW)		0.04	
644	00100	0.04	MILE	EDGE LINE, 4" (WHITE)		0.04	
644	00200	0.04	MILE	LANE LINE, 4"		0.04	

EXISTING STRUCTURE

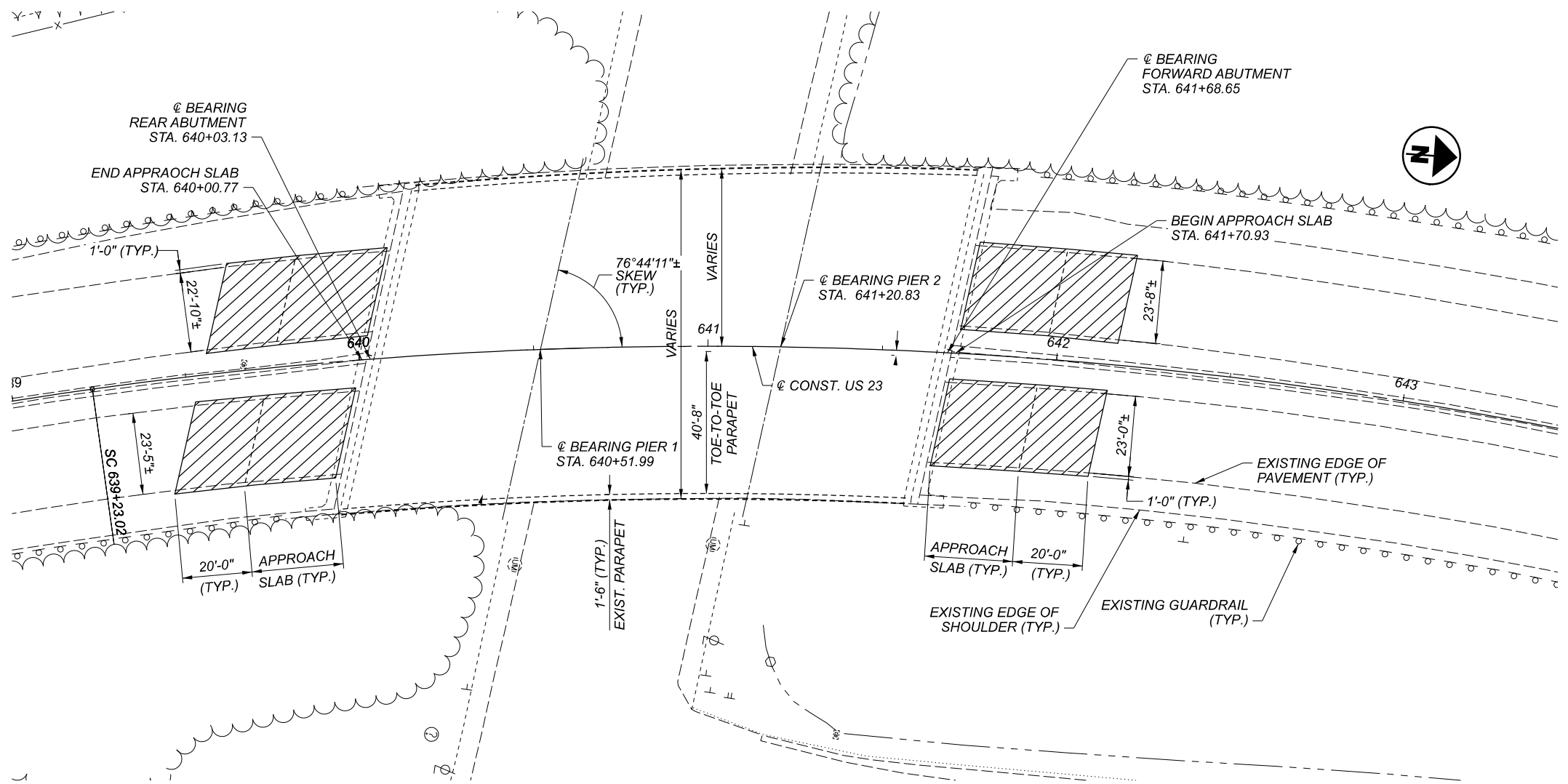
TYPE: 3 SPAN CONTINUOUS STEEL BEAM BRIDGE WITH NON-COMPOSITE DECK ON CONCRETE ABUTMENTS AND CONCRETE PIERS ON STEEL TUBE CAST-IN-PLACE PILES
 SPANS: 43.67± - 54.58± - 43.67± C/C BEARINGS
 ROADWAY: 40'-10"± (NB), 39'-4"± (SB) TOE-TO-TOE PARAPET
 LOADING: CF 2000 (57)
 SKEW: 29° 30' 31" LEFT FORWARD TO REFERENCE CHORD
 WEARING SURFACE: 1 1/4"± THICK LATEX MODIFIED CONCRETE
 APPROACH SLABS: 25'-0"± LONG
 ALIGNMENT: 9° RIGHT SPIRAL
 CROWN: VARIES
 STRUCTURE FILE NUMBER: 2100428
 DATE BUILT: 1966
 COORDINATES: LATITUDE 40° 17' 59.29" N
 LONGITUDE 83° 03' 49.50" W



SITE PLAN
 BRIDGE NO. DEL-23-12.02
 US 23 OVER EAST WINTER STEET

SFN 2100428
 DESIGN AGENCY

 6350 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
 (614) 833-4849
 DESIGNER: JWE
 CHECKER: JWE
 REVIEWER: SSK
 DATE: 2/2/22
 PROJECT ID: 115987
 SUBSET: 4 / 7
 SHEET: P.9 / 12



PLAN

BENCHMARK DATA

BM #	STA.	ELEV.	OFFSET
BM #1	STA.	ELEV.	OFFSET
BM #2	STA.	ELEV.	OFFSET
BM #3	STA.	ELEV.	OFFSET
BM #4	STA.	ELEV.	OFFSET

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET

NOTES

- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
- ITEM 519 SHALL BE FOR PATCHING AT THE JOINT AND APPROACH SLABS AS DIRECTED BY THE ENGINEER.

DESIGN TRAFFIC:

2021 ADT = 32303 2021 ADTT = 3132
 DIRECTIONAL DISTRIBUTION = 0.65

LEGEND

1 1/2" DEEP MILLING & OVERLAY LIMITS

NOTES:
 ITEM 202 - PORTIONS OF STRUCTURES REMOVED, AS PER PLAN. THIS ITEM SHALL INCLUDED THE MILLING 1 1/2" THICKNESS OF EXISTING CONCRETE BACK WALL AS DETAILED IN THE PLANS AND AS DIRECTED BY THE ENGINEER.

ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN CONTRACTOR SHALL FOLLOW CMS 519 FOR PATCHING OF CONCRETE, EXCEPT CONCRETE SHALL BE CLASS QC MS MATERIAL.

ROADWAY ESTIMATED QUANTITIES

ITEM	EXT.	TOTAL	UNIT	DESCRIPTION	DATE: 2/1/22		DATE:
					ABUT.	GENERAL	CHECKED BY:
202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1		10
254	01000	228	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1 1/2" THICK)		228	
254	01010	285	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1 1/2" THICK)		285	
519	11101	200	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN		200	10
407	20000	48	GAL	NON-TRACKING TACK COAT		48	
442	22100	22	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)		22	
644	00100	0.04	MILE	EDGE LINE, 4" (YELLOW)		0.04	
644	00100	0.04	MILE	EDGE LINE, 4" (WHITE)		0.04	
644	00200	0.04	MILE	LANE LINE, 4"		0.04	

ABUT.	GENERAL	SHEET NO.
1		10

EXISTING STRUCTURE

TYPE: 3 SPAN CONTINUOUS STEEL BEAM WITH NON-COMPOSITE CONCRETE DECK, REINFORCED CONCRETE ABUTMENTS AND PIERS ON SPREAD FOOTINGS

SPANS: 47.82'± - 68.84'± - 48.87'± C/C BEARINGS ON REFERENCE CHORD

ROADWAY: 40'-8"± (NB), VARIES (SB) TOE-TO-TOE PARAPET

LOADING: CF 2000 (57)

SKEW: 13° 15' 49"± LEFT FORWARD TO REFERENCE CHORD

WEARING SURFACE: 1 1/4"± THICK LATEX MODIFIED CONCRETE

APPROACH SLABS: SPECIAL, 25'-0"± LONG

ALIGNMENT: 04° 30' 00" RIGHT CURVE

CROWN: SUPERELEVATED .083 FT/FT AND .016 FT/FT (NORTHBOUND)
 SUPERELEVATED .083 FT/FT AND .042 FT/FT (SOUTHBOUND)

STRUCTURE FILE NUMBER: 2100452

DATE BUILT: 1966

COORDINATES: LATITUDE 40° 18' 04.02" N
 LONGITUDE 83° 03' 51.98" W



SITE PLAN
 BRIDGE NO. DEL-23-12.12
 US 23 OVER EAST CENTRAL AVENUE

SFN 2100452

DESIGN AGENCY

6350 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
 (614) 833-4549

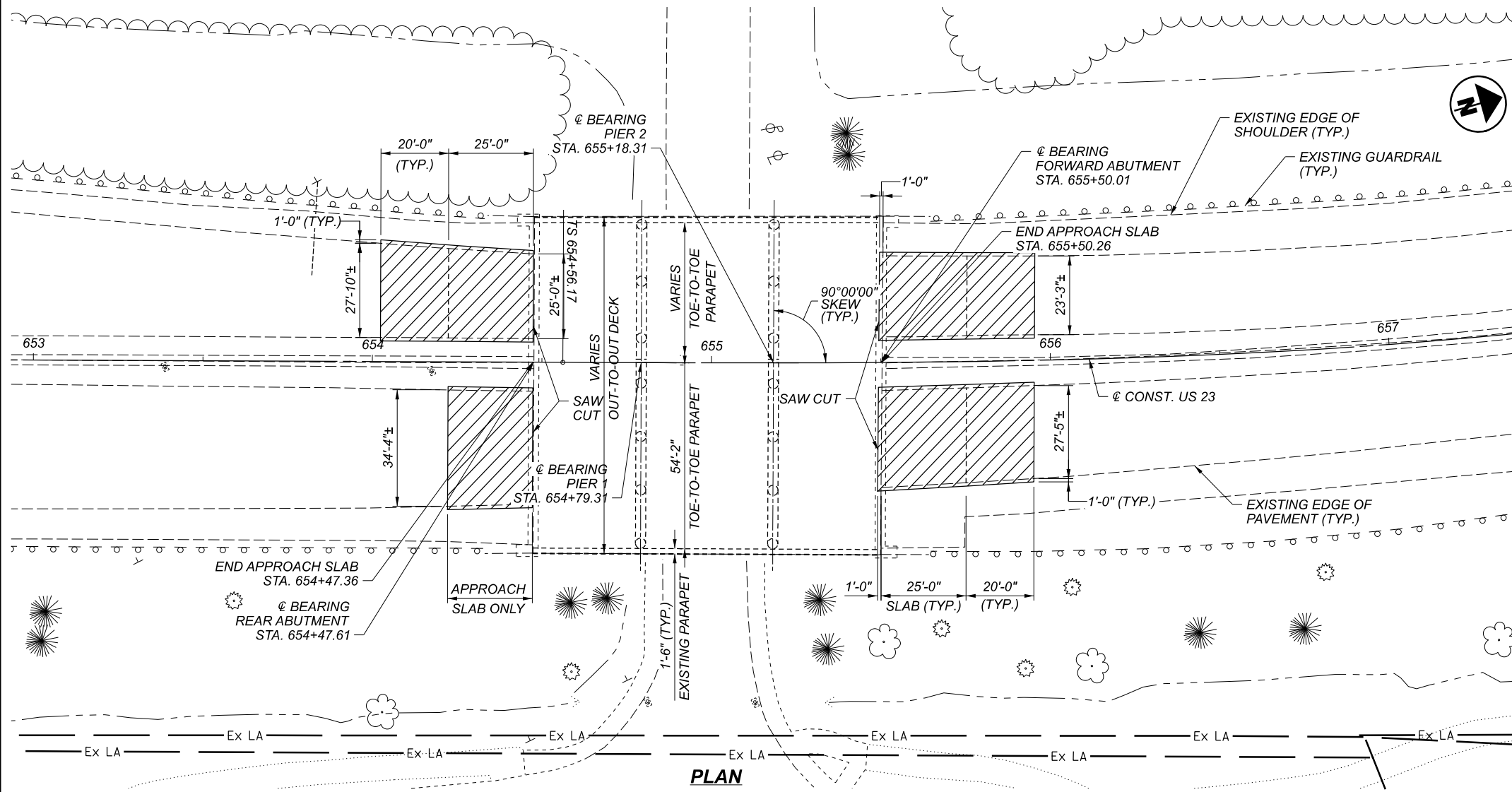
DESIGNER CHECKER
 JWE JWE

REVIEWER
 SSK 2/2/22

PROJECT ID
 115987

SUBSET	TOTAL
5	7
SHEET	TOTAL
P.10	12

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PLAN

BENCHMARK DATA

BM #	STA.	ELEV.	OFFSET
BM #1	STA.	ELEV.	OFFSET
BM #2	STA.	ELEV.	OFFSET
BM #3	STA.	ELEV.	OFFSET
BM #4	STA.	ELEV.	OFFSET

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET

NOTES

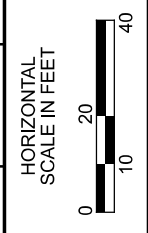
- EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.
- ITEM 519 SHALL BE FOR PATCHING AT THE JOINT AND APPROACH SLABS AS DIRECTED BY THE ENGINEER.

DESIGN TRAFFIC:

2021 ADT = 32303 2021 ADTT = 3132
 DIRECTIONAL DISTRIBUTION = 0.65

LEGEND

1 1/2" DEEP MILLING & OVERLAY LIMITS



SITE PLAN
BRIDGE NO. DEL-23-12.39
US 23 OVER EAST LINCOLN AVENUE

NOTES:

ITEM 202 - PORTIONS OF STRUCTURES REMOVED, AS PER PLAN. THIS ITEM SHALL INCLUDE THE MILLING 1 1/2" THICKNESS OF EXISTING CONCRETE BACK WALL AS DETAILED IN THE PLANS AND AS DIRECTED BY THE ENGINEER.

ITEM 519 PATCHING CONCRETE STRUCTURES, AS PER PLAN. CONTRACTOR SHALL FOLLOW CMS 519 FOR PATCHING OF CONCRETE, EXCEPT CONCRETE SHALL BE CLASS QC MS MATERIAL.

ROADWAY ESTIMATED QUANTITIES

DATE: 2/1/22 DATE:
 CALC BY: JWE CHECKED BY:

ITEM	EXT.	TOTAL	UNIT	DESCRIPTION	DATE: 2/1/22		SHEET NO.
					SUPER.	GENERAL	
202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	1		11
254	01000	268	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1 1/2" THICK)		268	
254	01010	235	SY	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE (1 1/2" THICK)		235	
519	11101	200	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN		200	11
407	20000	56	GAL	NON-TRACKING TACK COAT		56	
442	22100	26	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449)		26	
644	00100	0.04	MILE	EDGE LINE, 4" (YELLOW)		0.04	
644	00100	0.04	MILE	EDGE LINE, 4" (WHITE)		0.04	
644	00200	0.04	MILE	LANE LINE, 4"		0.04	

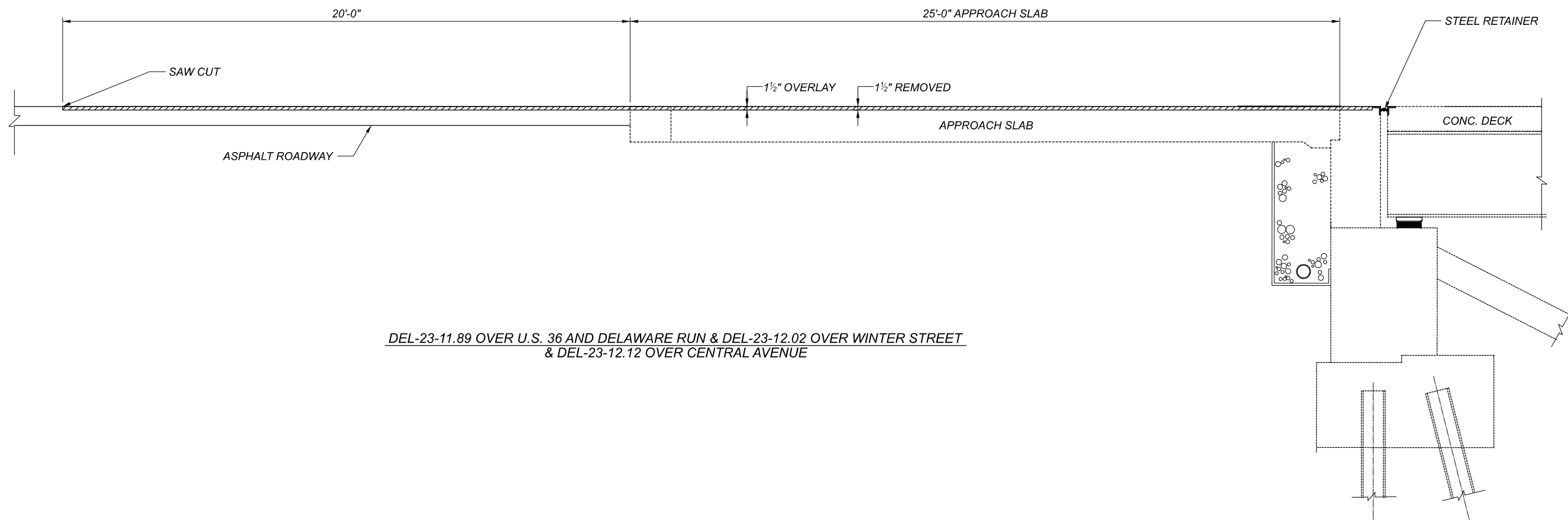
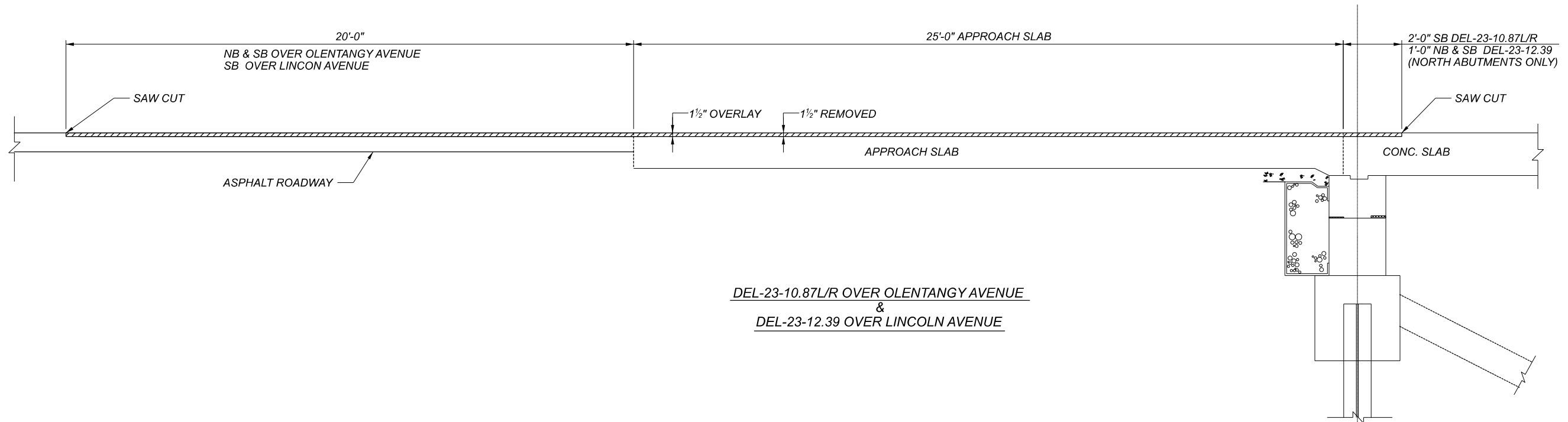
EXISTING STRUCTURE

TYPE: 3 SPAN CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE ON REINFORCED CONCRETE ABUTMENTS ON STEEL PILES AND CONCRETE PIERS ON SPREAD FOOTINGS.

SPANS: 31.20'± - 39.00'± - 31.20'± C/C BEARINGS
 ROADWAY: 53'-1"± (NB), 39'-4"± (SB) TOE-TO-TOE PARAPET
 LOADING: CF 2000 (57)
 SKEW: NO SKEW
 WEARING SURFACE: 1 1/4"± THICK LATEX MODIFIED CONCRETE OVERLAY
 APPROACH SLABS: 25'-0"± LONG
 ALIGNMENT: 12° LEFT SPIRAL
 CROWN: VARIES

STRUCTURE FILE NUMBER: 2100487
 DATE BUILT: 1966
 COORDINATES: LATITUDE 40° 18' 17.48" N
 LONGITUDE 83° 03' 47.51" W

SFN	2100487
DESIGN AGENCY	
DESIGNER	JWE
CHECKER	JWE
REVIEWER	SSK
DATE	2/2/22
PROJECT ID	115987
SUBSET	6
TOTAL	7
SHEET	P.11
TOTAL	12



BRIDGE OVERLAY DETAILS
 BRIDGE NO.
 US 23 OVER

SFN



6350 PRESIDENTIAL GATEWAY
 COLUMBUS, OHIO 43231
 (614) 833-4849

DESIGNER CHECKER
 JWE JWE

REVIEWER
 SSK 2/2/22

PROJECT ID
 115987

SUBSET	TOTAL
7	7

SHEET	TOTAL
P.12	12