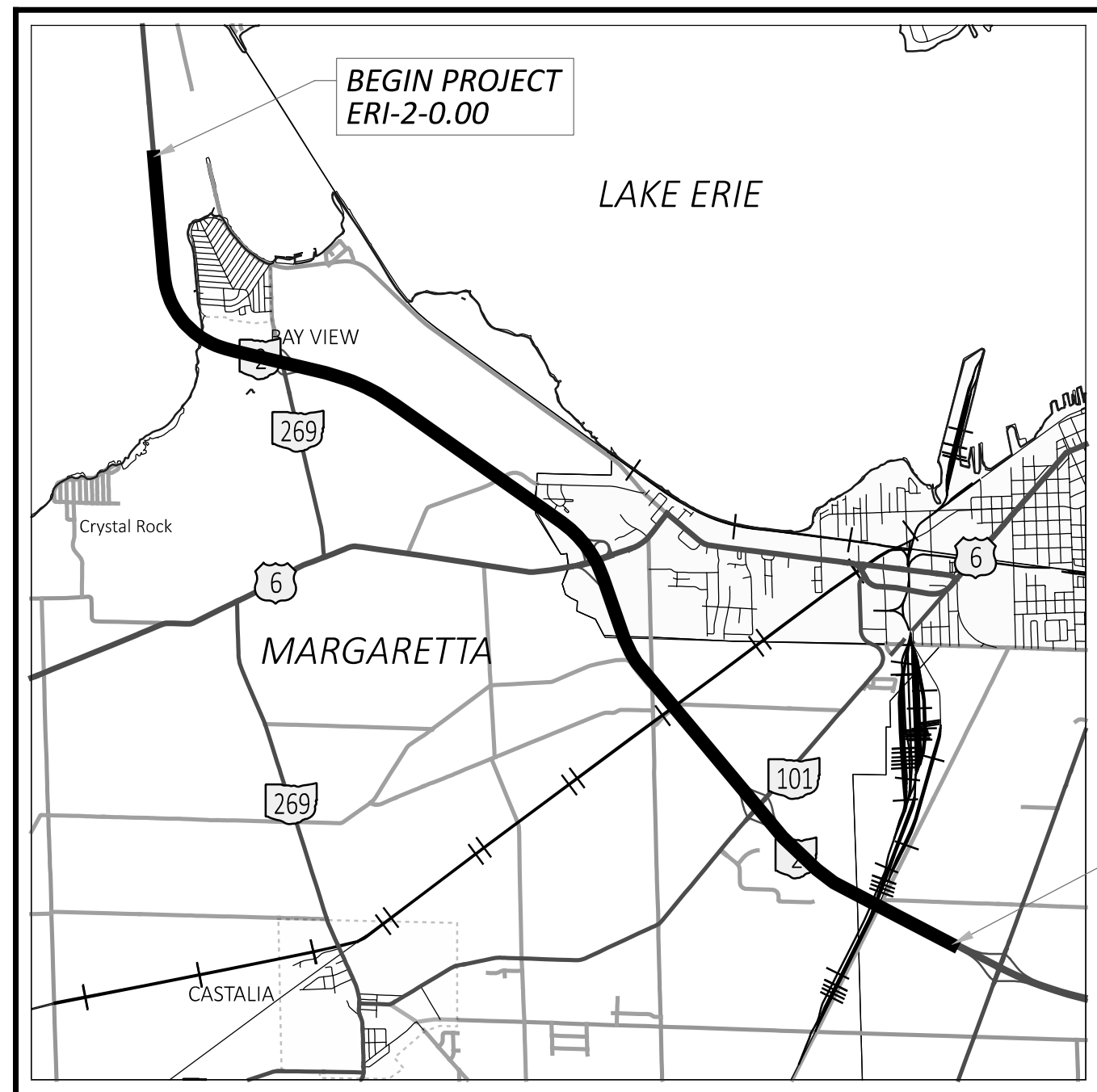


STATE OF OHIO DEPARTMENT OF TRANSPORTATION

ERI-2-0.00

CITY OF SANDUSKY
MARGARETTA TOWNSHIP
PERKINS TOWNSHIP
ERIE COUNTY



LOCATION MAP

LATITUDE: 41°26'43" LONGITUDE: 82°47'4"



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

DESIGN DESIGNATION

SEE SHEET 2

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

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MEDIAN BOX BEAM RAIL	48-60

FEDERAL PROJECT NUMBER

E240363

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THIS PROJECT WILL INCLUDE PAVEMENT REPAIRS, PAVEMENT PLANING, RESURFACING WITH ASPHALT CONCRETE, GUARDRAIL REPAIRS, STRUCTURE MAINTENANCE AND PAVEMENT MARKINGS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: N/A ACRES*
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A ACRES*
NOTICE OF INTENT EARTH DISTURBED AREA: N/A ACRES*
(* - 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

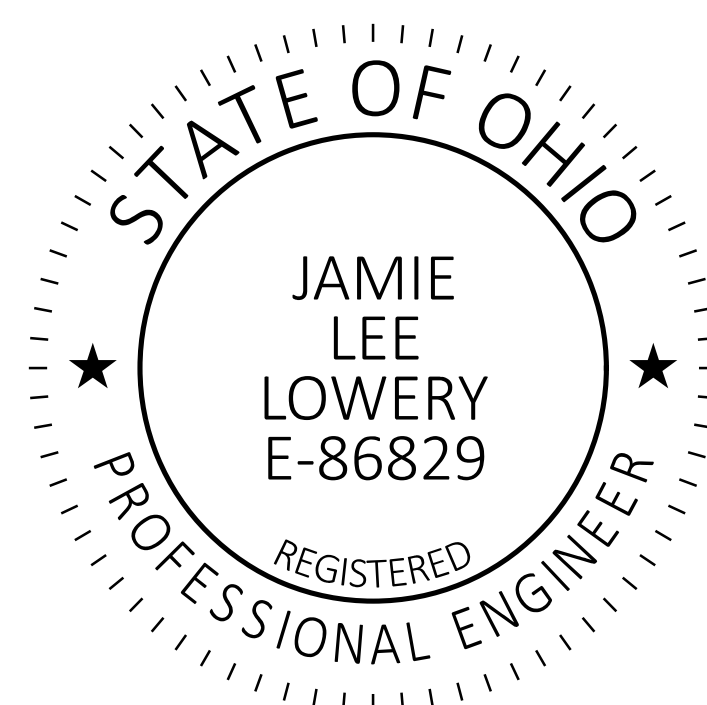
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

PLANS PREPARED BY:



TITLE SHEET

ENGINEER'S SEAL



UNDERGROUND UTILITIES
Contact Two Working Days Before You Dig

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

STANDARD CONSTRUCTION DRAWINGS

STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-2.5	1/21/22	MT-95.30	7/19/19	TC-41.20	10/18/13	TC-65.10	1/17/14	800-2023 7/19/24	
BP-3.1	1/19/24	MT-95.45	7/21/23	TC-42.20	10/18/13	TC-65.11	1/19/24	807 1/21/22	
BP-9.1	1/18/19	MT-95.50	7/21/17	TC-52.10	10/18/13	TC-71.10	4/21/23	808 1/18/19	
		MT-98.10	1/17/20	TC-52.20	1/15/21	TC-82.10	7/19/19	821 4/20/12	
DM-4.3	1/15/16	MT-98.11	1/17/20	TC-61.30	7/19/19			832 7/21/23	
DM-4.4	1/15/16	MT-98.20	4/19/19	TC-64.10	7/21/23			850 7/21/23	
		MT-98.22	1/17/20					896 7/21/17	
DBR-2-73	7/19/02	MT-98.28	1/17/20						
DBR-3-11	7/15/11	MT-98.29	1/17/20						
		MT-98.30	7/16/21						
		MT-99.20	4/19/19						
		MT-101.60	4/21/23						
		MT-101.90	7/17/20						
		MT-104.10	1/19/24						
		MT-105.10	1/17/20						

MAINTENANCE OF TRAFFIC ENDORSEMENT

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEETS 14-25, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Robert Weaver
District 03 Deputy Director

Jack Marchbanks, PhD
Director, Department of Transportation

DESIGN AGENCY	DISTRICT 3
ENGINEERING TEAM ONE	
DESIGNER	JLL
REVIEWER	KRB 7-2024
PROJECT ID	115168
SHEET TOTAL	P.01 60

ERI-2-0.00

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UTILITIES

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

CABLE
BUCKEYE CABLE SYSTEMS
4818 ANGOLA ROAD
TOLEDO, OH 43615
419.724.3768

CABLE
CHARTER COMMUNICATIONS
5520 WHIPPLE AVENUE NW
NORTH CANTON, OH 44720
330.494.9200

CITY
CITY OF SANDUSKY
222 MEIGS STREET
SANDUSKY, OH 44870
419.627.5844

COMMUNICATION
AT&T OHIO
130 N ERIE STREET
TOLEDO, OH 43604
419.245.7244

COMMUNICATION
EVERSTREAM SOLUTIONS
800 W ST CLAIR, 2ND FLOOR
CLEVELAND, OH 44113
216.581.7972

COUNTY
ERIE COUNTY SEWER
554 RIVER ROAD
HURON, OH 44839
419.433.7303

ELECTRIC
OHIO EDISON
2508 WEST PERKINS AVENUE
SANDUSKY, OH 44870
419.627.6881

GAS
COLUMBIA GAS OF OHIO
1800 BROAD AVENUE
FINDLAY, OH 45840
419.427.3225

TRAFFIC
ODOT DISTRICT THREE
906 CLARK AVENUE
ASHLAND, OH 44805
419.207.2868

TRAFFIC
ODOT OFFICE OF TRAFFIC OPERATIONS
1980 W BROAD STREET
COLUMBUS, OH 43223
614.644.0270

WATER
ERIE COUNTY WATER
2614 COLUMBUS AVENUE
SANDUSKY, OH 44870
419.627.7666

THE AFOREMENTIONED UTILITY COMPANIES AND AGENCIES HAVE VARIOUS FACILITIES IN THE AREA THAT WILL REMAIN IN PLACE DURING CONSTRUCTION.

EXTREME CAUTION SHOULD BE EXERCISED IN AREAS WITH UTILITIES. SECTIONS 105.07 AND 107.16 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS REQUIRE, AMONG OTHER THINGS, THAT THE CONTRACTOR COOPERATE WITH ALL UTILITIES LOCATED WITHIN THE LIMITS OF THIS CONSTRUCTION PROJECT AND TAKE RESPONSIBILITY FOR THE PROTECTION OF THE UTILITY PROPERTY AND SERVICES.

EXISTING PLANS

THE FOLLOWING EXISTING PLANS MAY BE INSPECTED IN THE ODOT DISTRICT THREE OFFICE IN ASHLAND:

PLANS	DATED
ERI-2-0.15	1963
ERI-2-2.86	2001
ERI-2-0.14	2014

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.

COORDINATION OF WORK BETWEEN CONTRACTORS

THE CONTRACTOR SHOULD BE AWARE THAT THERE MAY BE OTHER WORK BEING PERFORMED BY A SEPARATE CONTRACTOR.

ERI-101-2.72 IS A RESURFACING CONTRACT AND IS SCHEDULED TO BEGIN WORK IN THE 2025 CONSTRUCTION SEASON.

OTT-2-23.29 IS A RESURFACING CONTRACT THAT IS SCHEDULED TO RESUME WORK IN THE 2025 CONSTRUCTION SEASON.

COORDINATION OF WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.

ROUTINE MAINTENANCE

BETWEEN THE TIME THAT BIDS ARE TAKEN AND THE START OF CONSTRUCTION, THE MAINTAINING AGENCY MAY ENTER UPON THE PROJECT AND PERFORM ROUTINE MAINTENANCE SUCH AS CRACK SEALING, PATCHING, AND BERM AND SHOULDER REPAIR. THE EFFECTS, IF ANY, OF THE PERFORMANCE OF ROUTINE MAINTENANCE SHALL BE CONSIDERED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE PLAN AND THE RESULTING CONDITIONS SHALL NOT BE CONSIDERED AS DIFFERING MATERIALLY FROM THOSE EXISTING AT THE TIME BIDS WERE TAKEN.

PROFILE AND ALIGNMENT

PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. (PREVIOUS CONSTRUCTION PLANS SHOWING THE ORIGINAL ALIGNMENT AND PROFILE, ARE AVAILABLE FOR INSPECTION AT THE ODOT DISTRICT 3 OFFICE). PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY AS SHOWN ON THE TYPICAL SECTIONS.

MEDIAN TRENCH DRAINS

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO THE EXISTING TRENCH DRAIN SYSTEM, LOCATED IN THE MEDIAN FROM SLM 0.75 TO 1.50.

THE CONTRACTOR SHALL NOT DISTURB THE TRENCH DRAIN SYSTEM DURING ALL CONSTRUCTION OPERATIONS. ANY PORTIONS THAT ARE DAMAGED SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PAVEMENT CORING INFORMATION

COUNTY	ROUTE	SLM	ASPHALT	CONCRETE	LOCATION	DIRECTION	YEAR CORED
ERI	2	1.35	6.5	9.0	LWP	WB	2023
ERI	2	1.35	4.75	10.0	EL	WB	2023
ERI	2	1.35	4.0	9.0	RWP	WB	2023
ERI	2	2.14	18.5	0.0	SH	WB	2023
ERI	2	2.14	20.5	0.0	RWP	WB	2023
ERI	2	2.14	18.0	0.0	LWP	WB	2023
ERI	2	3.10	20.5	0.0	SH	WB	2023
ERI	2	3.10	17.75	0.0	LWP	WB	2023
ERI	2	3.10	20.0	0.0	RWP	WB	2023
ERI	2	3.64	19.5	0.0	EL	WB	2023
ERI	2	3.64	20.5	0.0	RWP	WB	2023
ERI	2	3.64	20.0	0.0	LWP	WB	2023
ERI	2	5.27	17.5	0.0	RWP	WB	2023
ERI	2	5.27	17.5	0.0	EL	WB	2023
ERI	2	5.27	18.5	0.0	LWP	WB	2023
ERI	2	6.05	19.5	0.0	LWP	WB	2023
ERI	2	6.05	19.5	0.0	RWP	WB	2023
ERI	2	6.05	18.0	0.0	SH	WB	2023
ERI	2	6.65	17.5	0.0	EL	WB	2023
ERI	2	6.65	18.0	0.0	LWP	WB	2023
ERI	2	6.65	19.0	0.0	RWP	WB	2023
ERI	2	7.22	21.0	0.0	SH	WB	2023
ERI	2	7.22	20.0	0.0	LWP	WB	2023
ERI	2	7.22	20.0	0.0	RWP	WB	2023

ITEM 209 – LINEAR GRADING

THE CONTRACTOR IS REQUIRED TO PERFORM LINEAR GRADING ON THE GRADED SHOULDER. IT IS ANTICIPATED THAT THERE ARE AREAS WHERE THE GRADED SHOULDER IS AT A HIGHER ELEVATION THAN THE ADJACENT PROPOSED PAVEMENT. A 10:1 SLOPE SHALL BE ESTABLISHED, OR AS DIRECTED BY THE ENGINEER, WHEN PERFORMING ITEM 209 LINEAR GRADING. THE INTENT IS TO PROVIDE AN UNOBSTRUCTED AND POSITIVE FLOW OF STORM WATER FROM THE PAVEMENT TO THE DITCH.

THE LINEAR GRADING SHALL BE PERFORMED AFTER THE PAVEMENT PLANING HAS BEEN COMPLETED AND BEFORE THE SURFACE COURSE IS PLACED. THE LINEAR GRADING SHALL BE COMPLETED ADJAENT TO AND UNDER THE EXISTING OUTSIDE BOX BEAM RAIL AND ALL EXISTING GUARDRAIL WHERE RESHAPING UNDER GUARDRAIL IS NOT SPECIFIED.

ALL LABOR AND EQUIPMENT NECESSARY TO PERFORM THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID PER MILE FOR ITEM 209 - LINEAR GRADING.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE)

ERI-2-1.77 TO 7.72

THIS ITEM OF WORK SHALL CONSIST OF THE REMOVAL OF THE EXISTING PAVEMENT OR PAVED BERM WHICH MAY BE ASPHALT, BRICK, CONCRETE, OR A COMBINATION OF EACH, IN AREAS OF EXISTING PAVEMENT FAILURE.

PAVEMENT REPAIR SHALL BE PERFORMED PRIOR TO PAVEMENT PLANING. THE DEPTH OF REMOVAL SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT WITH A MAXIMUM DEPTH OF 4". THE MINIMUM WIDTH OF REPAIR SHALL BE 4FT.

REPLACEMENT MATERIAL SHALL BE ITEM 301 ASPHALT CONCRETE BASE AND SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE.

FOR BID AND ESTIMATING PURPOSES, APPROXIMATELY 95% OF THE REPAIRS ARE TO BE CONSIDERED LONGITUDINAL REPAIRS AND 5% ARE TO BE CONSIDERED TRANSVERSE REPAIRS UNLESS OTHERWISE STATED. THIS APPROXIMATION IS SHOWN IN THE QUANTITIES BELOW.

LONGITUDINAL IS DEFINED AS ANY REPAIR THAT HAS A GREATER MEASUREMENT PARALLEL TO THE CENTERLINE THAN THE MEASUREMENT PERPENDICULAR TO THE CENTERLINE. TRANSVERSE IS DEFINED AS ANY REPAIR THAT HAS A GREATER MEASUREMENT PERPENDICULAR TO THE CENTERLINE THAN THE MEASUREMENT PARALLEL TO THE CENTERLINE.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIR. FOR PAYMENT PURPOSES, ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR IS TO BE A MAXIMUM OF 4" DEEP. THE FOLLOWING ITEMS AND QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

ITEM 251 – PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE) (LONGITUDINAL) 1,285 CU YD

ITEM 251 – PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE) (TRANSVERSE) 70 CU YD

ITEM 253 - PAVEMENT REPAIR (FULL DEPTH FLEXIBLE)

ERI-2-1.77 TO 7.72

THIS ITEM OF WORK SHALL CONSIST OF THE REMOVAL OF THE EXISTING PAVEMENT OR PAVED BERM WHICH MAY BE ASPHALT, BRICK, CONCRETE, OR A COMBINATION OF EACH, IN AREAS OF EXISTING PAVEMENT FAILURE.

PAVEMENT REPAIR SHALL BE PERFORMED PRIOR TO PAVEMENT PLANING. THE DEPTH OF REMOVAL SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT WITH A MAXIMUM DEPTH OF 18" AND A MINIMUM WIDTH OF 4FT.

FOR FULL DEPTH REPAIRS WHERE CONCRETE IS UNDERLYING ASPHALT BUT CONCRETE IS NOT BEING REPLACED AS PART OF THE REPAIR, REMOVE ALL ASPHALT TO THE TOP OF CONCRETE THEN COMPLETE FLEXIBLE REPAIR ON TOP OF EXISTING CONCRETE.

REPLACEMENT MATERIAL SHALL BE ITEM 301 ASPHALT CONCRETE BASE MATERIAL AND SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE.

FOR BID AND ESTIMATING PURPOSES, APPROXIMATELY 95% OF THE REPAIRS ARE TO BE CONSIDERED LONGITUDINAL REPAIRS AND 5% ARE TO BE CONSIDERED TRANSVERSE REPAIRS UNLESS OTHERWISE STATED. THIS APPROXIMATION IS SHOWN IN THE QUANTITIES BELOW.

LONGITUDINAL IS DEFINED AS ANY REPAIR THAT HAS A GREATER MEASUREMENT PARALLEL TO THE CENTERLINE THAN THE MEASUREMENT PERPENDICULAR TO THE CENTERLINE. TRANSVERSE IS DEFINED AS ANY REPAIR THAT HAS A GREATER MEASUREMENT PERPENDICULAR TO THE CENTERLINE THAN THE MEASUREMENT PARALLEL TO THE CENTERLINE.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIR. FOR PAYMENT PURPOSES, ITEM 253 - PAVEMENT REPAIR IS TO BE A MAXIMUM OF 18" DEEP. THE FOLLOWING ITEMS AND QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

ITEM 253 – PAVEMENT REPAIR (LONGITUDINAL) 130 CU YD

ITEM 253 – PAVEMENT REPAIR (TRANSVERSE) 5 CU YD

ITEM 254 - PATCHING PLANED SURFACE


AN ESTIMATED QUANTITY OF ITEM 254 - PATCHING PLANED SURFACE HAS BEEN SET UP TO BE USED AS DIRECTED BY THE ENGINEER AS DESCRIBED IN CMS 254.04. THE LIMIT OF THE PATCHING DEPTH IS 0 TO 2 IN.

GENERAL NOTES

ERI-2-0.00

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DESIGN AGENCY
DISTRICT 3



ENGINEERING
TEAM ONE

DESIGNER
JLL


REVIEWER
LTW 7-2024

PROJECT ID
115168

SHEET TOTAL
P.08 | 60

SHEET NUM.											PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
8	9	11	12	13	28	29	30	35	36	37	01/NHS/05	EXT	TOTAL				
								5,343			5,343	807	13410	5,343	FT	WET REFLECTIVE SPRAY THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6"	
								51.24			51.24	850	10010	51.24	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
								5,343			5,343	850	10110	5,343	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
								4,210			4,210	850	10130	4,210	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
								2.18			2.18	850	20010	2.18	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	
								488			488	850	20130	488	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (CONCRETE)	
																TRAFFIC SIGNALS	
	4										4	632	26501	4	EACH	DETECTOR LOOP, AS PER PLAN	9
																STRUCTURE REPAIR (ERI-2-0.63)	
										1,681	1,681	512	73500	1,681	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	
										275	275	517	75600	275	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
										15	15	SPECIAL	51912510	15	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	37
																STRUCTURE REPAIR (ERI-2-1.425)	
										37.5	37.5	202	38500	37.5	FT	BRIDGE RAILING REMOVED	
										37.5	37.5	517	72300	37.5	FT	RAILING (DEEP BEAM RAIL WITH STEEL TUBULAR BACKUP AND TYPE 2 STEEL POSTS AND ANCHOR BOLTS)	
										75	75	517	75600	75	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
																MAINTENANCE OF TRAFFIC	
				380							380	614	11110	380	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
			LS								LS	614	12420	LS		DETOUR SIGNING	
			100								100	614	13000	100	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	
				45							45	614	18601	45	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	13
								30.88			30.88	614	20560	30.88	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
								71.6			71.6	614	22360	71.6	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
								9,396			9,396	614	23690	9,396	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
								10,686			10,686	614	24612	10,686	FT	WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT	
								558			558	614	26610	558	FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
				110							110	808	18700	110	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
																INCIDENTALS	
											LS	614	11000	LS		MAINTAINING TRAFFIC	
											6	619	16020	6	MNTH	FIELD OFFICE, TYPE C	
											LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
											LS	624	10000	LS		MOBILIZATION	

DESIGN AGENCY
DISTRICT 3



ENGINEERING
 TEAM ONE

DESIGNER
 JLL

REVIEWER
 KRB 7-2024

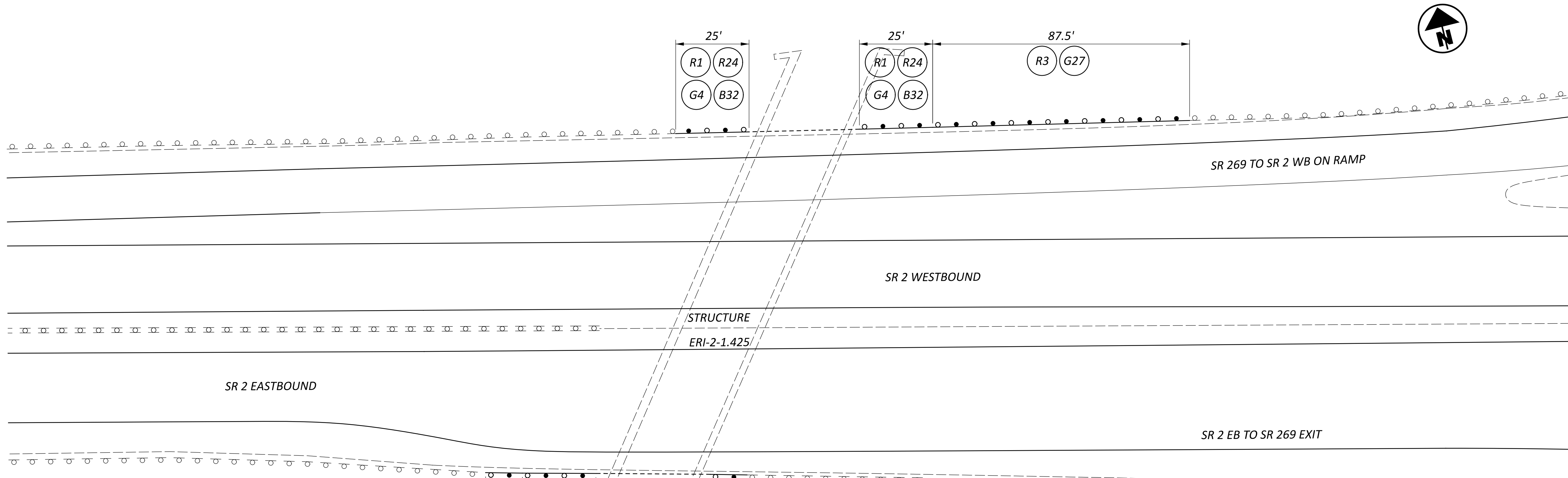
PROJECT ID
 115168

SHEET TOTAL
 P.27 | 60

LABEL	ITEM	EXTENSION	QUANTITY FROM GUARDRAIL AT LOCATION:								TOTAL QUANTITY	UNIT	DESCRIPTION
			ERI-2-1.425	RAMP B1	ERI-2-4.27S	RAMP C3	RAMP D3	ERI-2-7.10	ERI-2-7.42	ERI-2-3.42			
R1	202	38000	100		362.5				25	25	512.5	FT	GUARDRAIL REMOVED
R3	202	38200	87.5	350					168.75	287.5	893.75	FT	GUARDRAIL REMOVED FOR REUSE
R24	202	47000	4		4				1	1	10	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED
E2-A	203	20001		4	10					15	29	CY	EMBANKMENT, AS PER PLAN
E3-A	209	15001	1.875	4.000	3.625	7.375	0.750	0.750	1.938	2.875	23.188	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN
G4	606	13000	100		362.5				25	25	512.5	FT	GUARDRAIL, TYPE 5
G27	606	16500	87.5	350					168.75	287.5	893.75	FT	GUARDRAIL REBUILT, TYPE 5
G37	606	17000				737.5	75	50			862.5	FT	RAISING TYPE 5 GUARDRAIL
B18	606	35000			2						2	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1
B26	606	35100			2			1	1		4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2
B32	606	35140	4								4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4
M3	626	00110	5	5	6			2	3		21	EACH	BARRIER REFLECTOR, TYPE 2, 1-WAY
M4	626	00110								5	5	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL

ERI-2-0.00

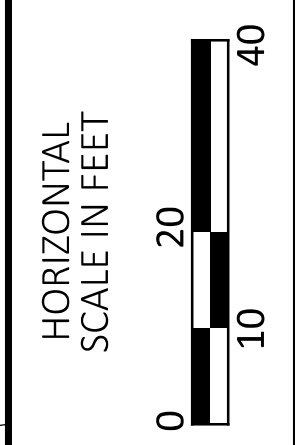
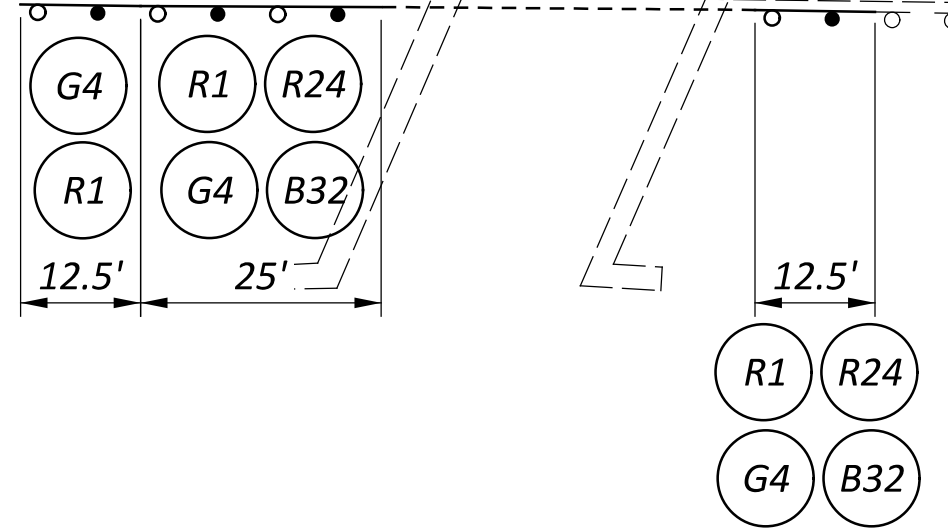
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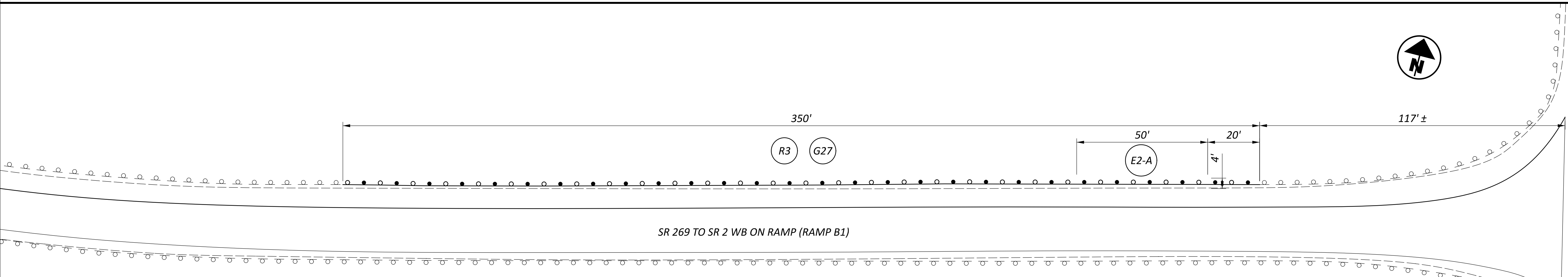
ERI-2-1.425 GUARDRAIL QUANTITIES

LABEL	ITEM	QUANTITY			UNIT	DESCRIPTION
		LEFT (WB)	RIGHT (EB)	TOTAL		
R1	202	50	50	100	FT	GUARDRAIL REMOVED
R3	202	87.5		87.5	FT	GUARDRAIL REMOVED FOR REUSE
R24	202	2	2	4	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED
E3-A	209	1.375	0.500	1.875	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN
G4	606	50	50	100	FT	GUARDRAIL, TYPE 5
G27	606	87.5		87.5	FT	GUARDRAIL REBUILT, TYPE 5
B32	606	2	2	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4
M3	626	3	2	5	EACH	BARRIER REFLECTOR, TYPE 2, 1 WAY

ALL QUANTITIES CARRIED TO GUARDRAIL SUBSUMMARY



GUARDRAIL DETAILS
ERI-2-1.425/SR 269 TO SR 2 WESTBOUND RAMP



ERI-269 TO ERI-2 WB (RAMP B1) GUARDRAIL QUANTITIES

LABEL	ITEM	QUANTITY			UNIT	DESCRIPTION
		LEFT	RIGHT	TOTAL		
R3	202	350		350	FT	GUARDRAIL REMOVED FOR REUSE
E2-A	203	4		4	CY	EMBANKMENT, AS PER PLAN
E3-A	209	4.000		4.000	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN
G27	606	350		350	FT	GUARDRAIL REBUILT, TYPE 5
M3	626	5		5	EACH	BARRIER REFLECTOR, TYPE 2, 1 WAY

ALL QUANTITIES CARRIED TO GUARDRAIL SUBSUMMARY

DESIGN AGENCY
DISTRICT 3

ENGINEERING
TEAM ONE

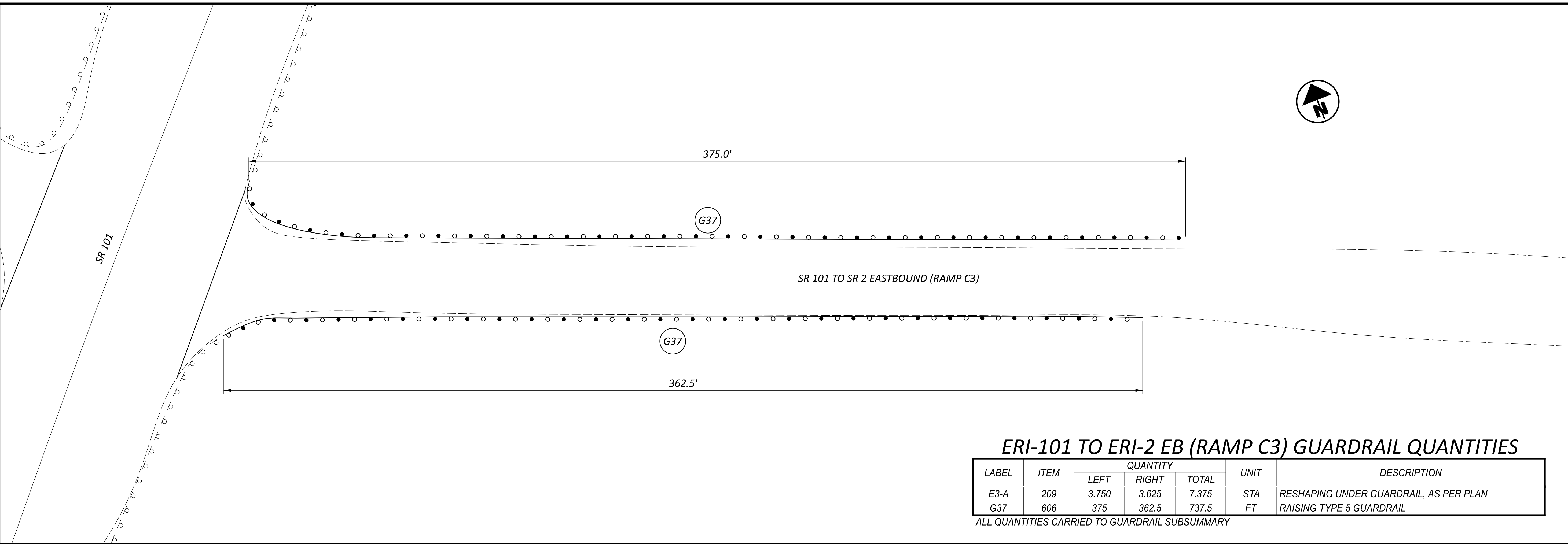
DESIGNER
JEW

REVIEWER
JLL 7-2024

PROJECT ID
115168

SUBSET	TOTAL
1	5

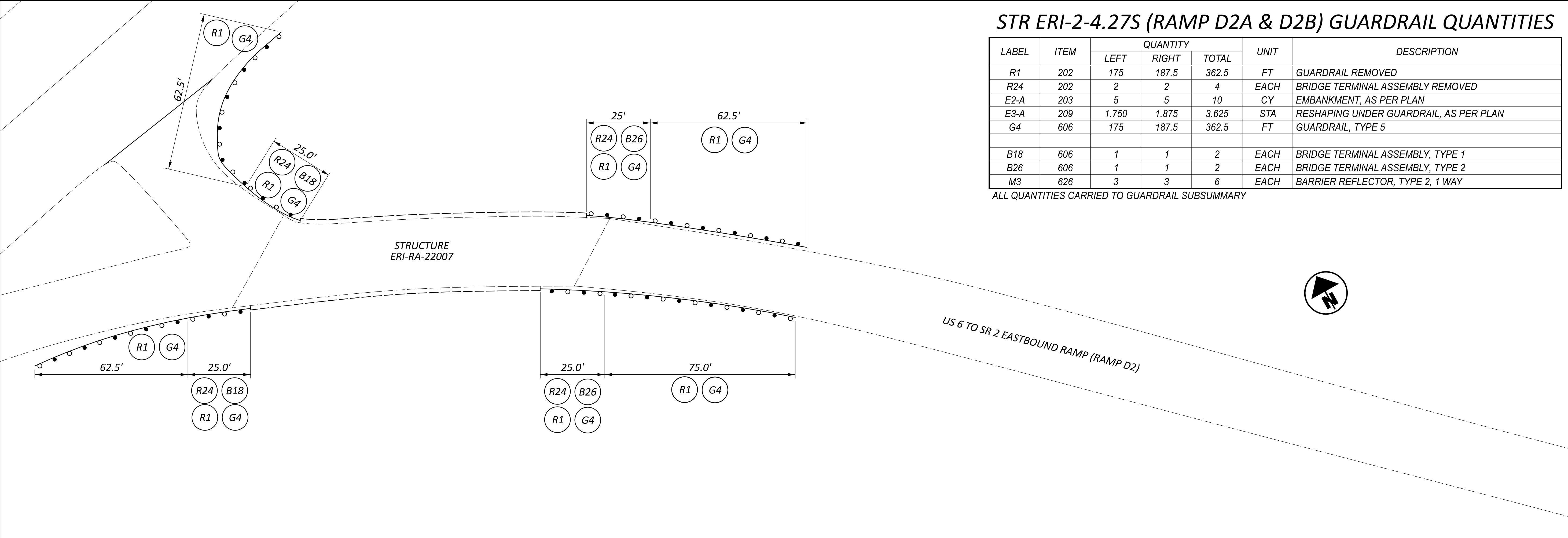
SHEET TOTAL
 P.31 60



ERI-101 TO ERI-2 EB (RAMP C3) GUARDRAIL QUANTITIES

LABEL	ITEM	QUANTITY			UNIT	DESCRIPTION
		LEFT	RIGHT	TOTAL		
E3-A	209	3.750	3.625	7.375	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN
G37	606	375	362.5	737.5	FT	RAISING TYPE 5 GUARDRAIL

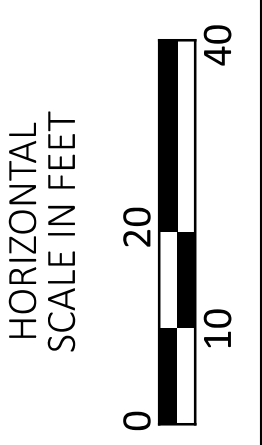
ALL QUANTITIES CARRIED TO GUARDRAIL SUBSUMMARY

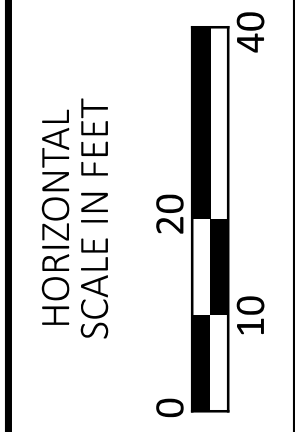
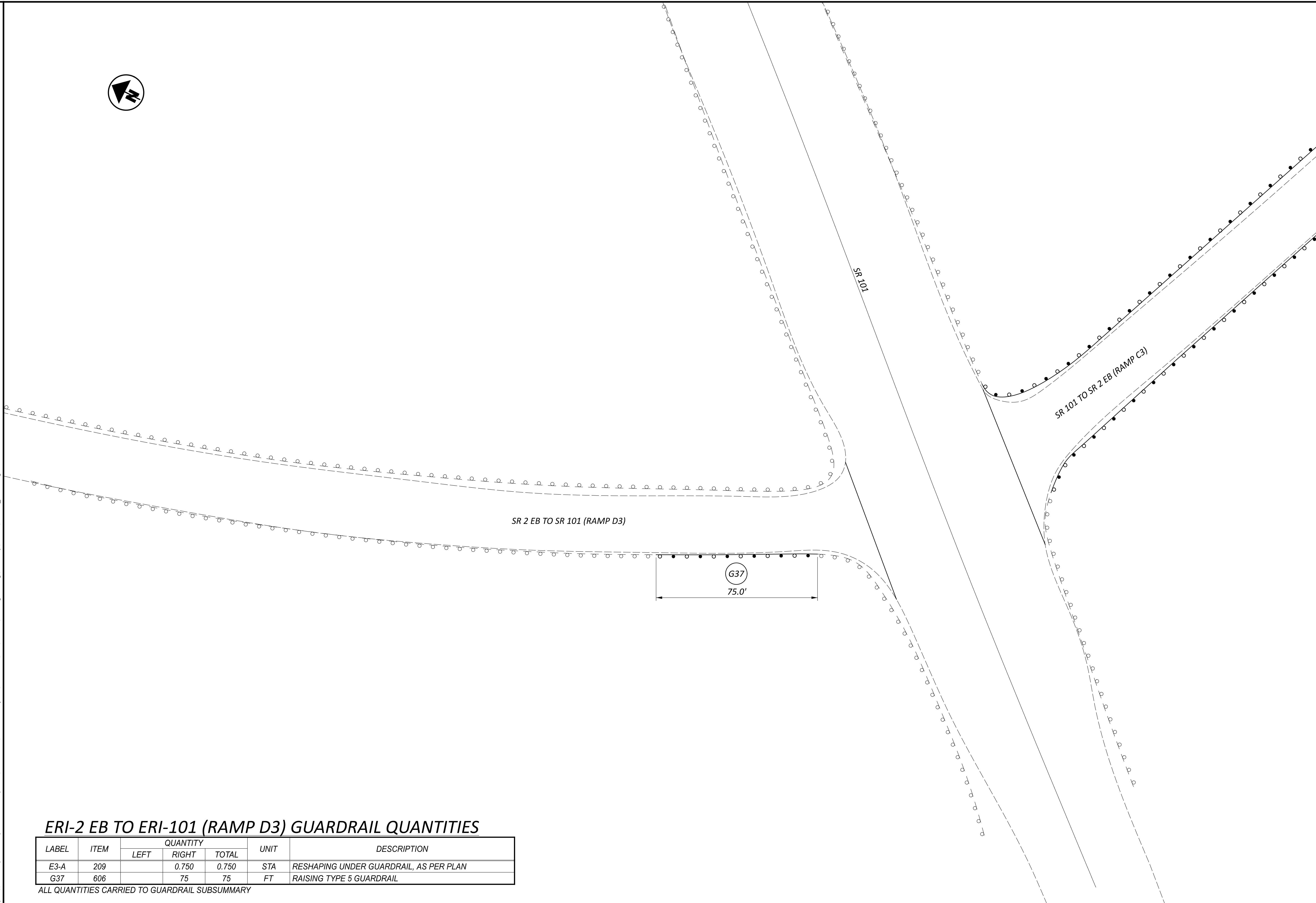
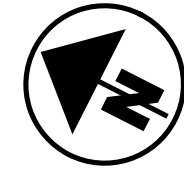


STR ERI-2-4.27S (RAMP D2A & D2B) GUARDRAIL QUANTITIES

LABEL	ITEM	QUANTITY			UNIT	DESCRIPTION
		LEFT	RIGHT	TOTAL		
R1	202	175	187.5	362.5	FT	GUARDRAIL REMOVED
R24	202	2	2	4	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED
E2-A	203	5	5	10	CY	EMBANKMENT, AS PER PLAN
E3-A	209	1.750	1.875	3.625	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN
G4	606	175	187.5	362.5	FT	GUARDRAIL, TYPE 5
B18	606	1	1	2	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1
B26	606	1	1	2	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2
M3	626	3	3	6	EACH	BARRIER REFLECTOR, TYPE 2, 1 WAY

ALL QUANTITIES CARRIED TO GUARDRAIL SUBSUMMARY





GUARDRAIL DETAILS
ERI-2 RAMP D3

ERI-2 EB TO ERI-101 (RAMP D3) GUARDRAIL QUANTITIES

LABEL	ITEM	QUANTITY			UNIT	DESCRIPTION
		LEFT	RIGHT	TOTAL		
E3-A	209		0.750	0.750	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN
G37	606		75	75	FT	RAISING TYPE 5 GUARDRAIL

ALL QUANTITIES CARRIED TO GUARDRAIL SUBSUMMARY

DESIGN AGENCY
DISTRICT 3

ENGINEERING
 TEAM ONE

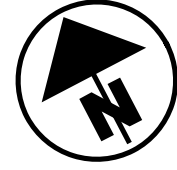
DESIGNER
JEW

REVIEWER
JLL 7-2024

PROJECT ID
115168

SUBSET	TOTAL
3	5

SHEET	TOTAL
P.33	60



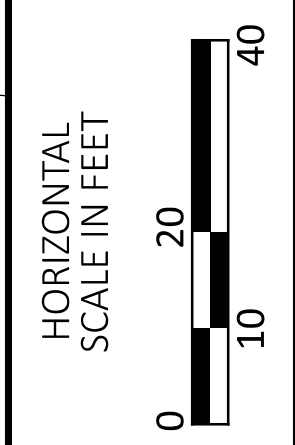
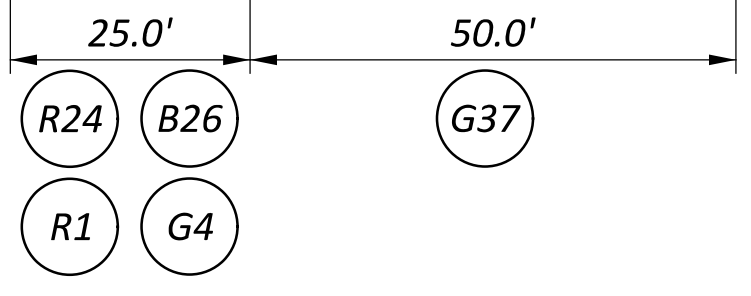
STRUCTURE
ERI-2-7.114

SR 2 EASTBOUND

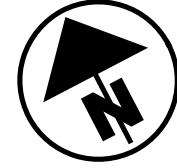
ERI-2-7.11 GUARDRAIL QUANTITIES

LABEL	ITEM	QUANTITY			UNIT	DESCRIPTION
		LEFT	RIGHT	TOTAL		
R1	202		25	25	FT	GUARDRAIL REMOVED
R24	202		1	1	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED
E3-A	209		0.750	0.750	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN
G4	606		25	25	FT	GUARDRAIL, TYPE 5
G37	606		50	50	FT	RAISING TYPE 5 GUARDRAIL
B26	606		1	1	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2
M3	626		2	2	EACH	BARRIER REFLECTOR, TYPE 2, 1 WAY

ALL QUANTITIES CARRIED TO GUARDRAIL SUBSUMMARY



GUARDRAIL DETAILS
ERI-2-7.11/7.42



STRUCTURE
ERI-2-7.436

SR 2 EASTBOUND

ERI-2-7.42 GUARDRAIL QUANTITIES

LABEL	ITEM	QUANTITY			UNIT	DESCRIPTION
		LEFT	RIGHT	TOTAL		
R1	202		25	25	FT	GUARDRAIL REMOVED
R3	202		168.75	168.75	FT	GUARDRAIL REMOVED FOR REUSE
R24	202		1	1	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED
E3-A	209		1.938	1.938	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN
G4	606		25	25	FT	GUARDRAIL, TYPE 5
G27	606		168.75	168.75	FT	GUARDRAIL REBUILT, TYPE 5
B26	606		1	1	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2
M3	626		3	3	EACH	BARRIER REFLECTOR, TYPE 2, 1 WAY

ALL QUANTITIES CARRIED TO GUARDRAIL SUBSUMMARY



DESIGN AGENCY
DISTRICT 3

ENGINEERING
TEAM ONE

DESIGNER
JEW

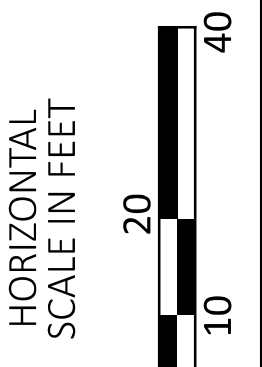
REVIEWER
JLL 7-2024

PROJECT ID
115168

SUBSET	TOTAL
4	5
SHEET	TOTAL
P.34	60

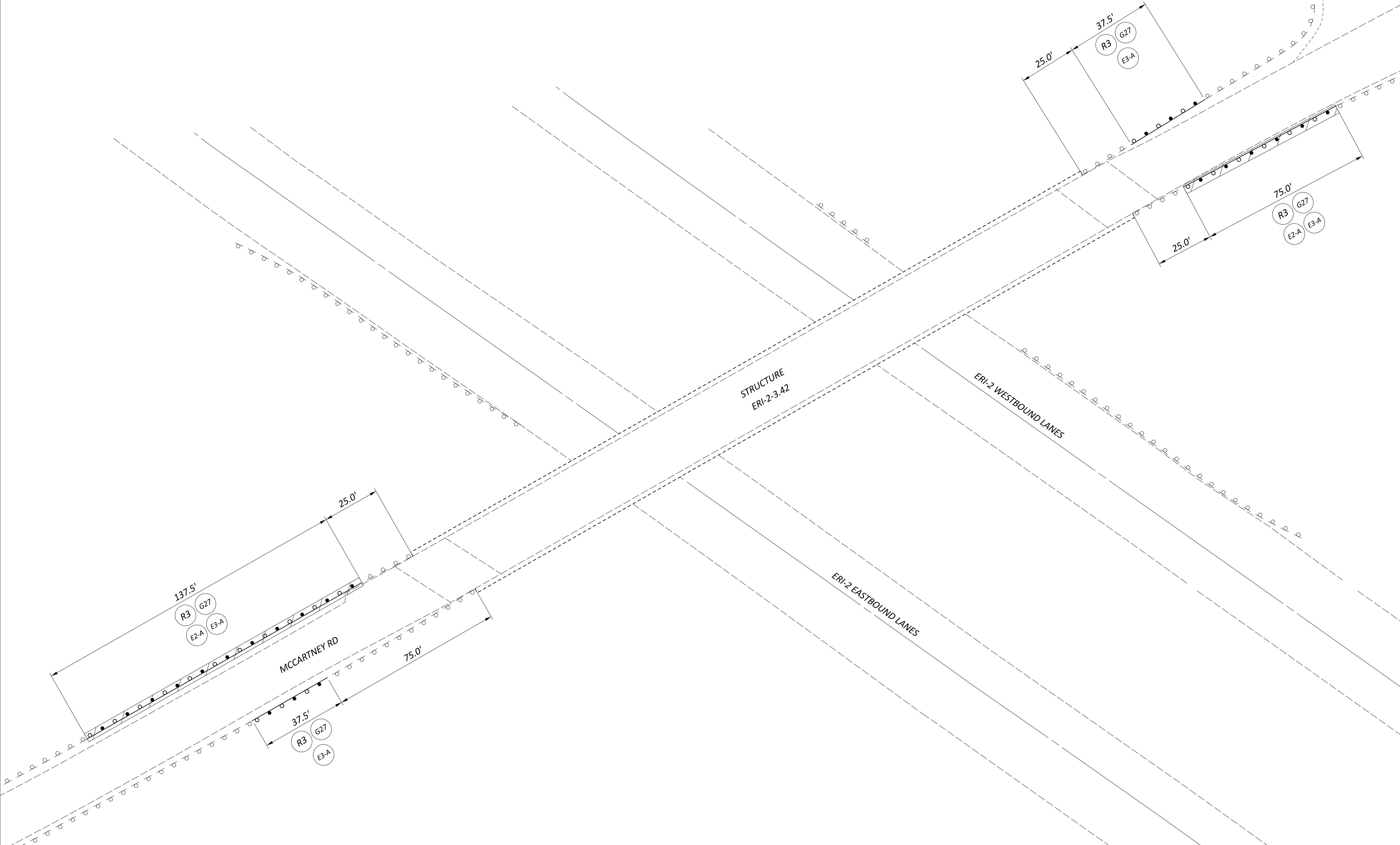
LABEL	ITEM	QUANTITY			UNIT	DESCRIPTION
		LEFT (WB)	RIGHT (EB)	TOTAL		
R3	202	175	112.5	287.5	FT	GUARDRAIL REMOVED FOR REUSE
E2-A	203	10	5	15	CY	EMBANKMENT, AS PER PLAN
E3-A	209	1.750	1.125	2.875	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN
G27	606	175	112.5	287.5	FT	GUARDRAIL REBUILT, TYPE 5
M4	626	3	2	5	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL

ALL QUANTITIES CARRIED TO GUARDRAIL SUBSUMMARY



ERI-2-0.00

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GUARDRAIL DETAILS
 MCCARTNEY RD OVER ERI-2

DESIGN AGENCY	DISTRICT 3
ENGINEERING TEAM ONE	
DESIGNER	JLL
REVIEWER	JLL 10-2024
PROJECT ID	115168
SUBSET	5
TOTAL	5
SHEET	P.34A
TOTAL	60