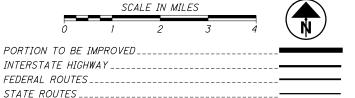
LATITUDE: 39°44'45" LONGITUDE: 84°07′14″

COUNTY & TOWNSHIP ROADS._____

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OTHER ROADS			
DESIGN DESIGNATION	<u>US 35</u>	<u>WOODMAN DR.</u> NORTH OF US 35	<u>WOODMAN DR</u> SOUTH OF US
CURRENT ADT (2020)	79,810	28,280	31,400
DESIGN YEAR ADT (2040)	85,440	28,280	31,400
DESIGN HOURLY VOLUME (2040)	7,770	2 , 610	2 , 850
DIRECTIONAL DISTRIBUTION	57%	51%	<i>53%</i>
TRUCKS (24 HOUR B&C)	7%	3%	2%
DESIGN SPEED	60 MPH	45 MPH	40 MPH
LEGAL SPEED	.55 MPH	45 MPH	35 MPH
DESIGN FUNCTIONAL CLASSIFICATION:			
USR 35 - URBAN FREEWAY AND EXPRES	SWAY		

DESIGN EXCEPTIONS:

WOODMAN DR. - PRINCIPLE ARTERIAL

VERTICAL CLEARANCE - APPROVED - 4/28/20 - SHEET 124

ADA DESIGN WAIVERS: NONE REQUIRED

NHS PROJECT _____ YES

UNDERGROUND UTILITIES

Contact Two Working Days Before You Dig



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

PLAN PREPARED BY:



DEPARTMENT OF TRANSPORTATION

MOT-35-19.80

CITY OF DAYTON, CITY OF RIVERSIDE **MONTGOMERY COUNTY**

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RAMP D PLAN & PROFILE	148-149	MOT-835-0002	248-294
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RAMP B SHARED USE PATH PLAN & PROFILE	155	RIGHT OF WAY	326-336
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			55. 557

PROJECT DESCRIPTION

THE RECONFIGURATION OF THE WOODMAN DRIVE INTERCHANGE AND THE REHABILITATION OF MOT-835-0002 SUPERSTRUCTURE AND MOT-74-0065 SUPERSTRUCTURE WITH MISCELLANEOUS DRAINAGE, GUARDRAIL, LIGHTING AND TRAFFIC CONTROL IMPROVEMENTS.

PROJECT FARTH DISTURBED AREA: 14.7 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 1.0 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: 15.7 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 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 REQUIRE THE PART TIME CLOSING OF THE HIGHWAY TO TRAFFIC, AS NOTED ON SHEETS 21 & 22. DURING WHICH TIME DETOURS WILL BE PROVIDED AS SHOWN HEREIN. PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

TC-65.11	7/21/17	823	1/21/22	1
TC-71.10	7/15/22	832	7/15/22	
TC-72.20	7/20/18	836	1/19/18	
TC-73.20	1/17/20	863	7/16/21	
TC-74.10	1/21/22	895	4/18/14	
TC-81 . 22	7/15/22	909	7/15/22	
TC-83.10	1/17/20	913	4/16/21	
TC-83 . 20	7/15/22	921	4/20/12	
TC-85.10	4/17/20	995	7/17/15	
TC-85 . 20	7/20/18	-	PECIAL	
		_		
ITS-11 . 10	7/15/22	PRO	OVISIONS	
		OEPA		
TTS-12.10	7/15/22	08/02	2/2018	
ITS-14.10	7/15/22			<i>APPROVED</i>
ITS-14.11	1/21/22			DATE
ITS-50.10	7/15/22			
				<i>APPROVED</i>
				DATE
			·	

SUPPLEMENTAL

SPECIFICATIONS

7/15/2

10/19/18

4/20/1

10/18/13 800-2019 SEE PROPOSAL

1/15/21 809

7/19/19 813

1/17/14 821

7/15/16 TC-52.10

TC-52,20

TC-65_10

ITS-12

ITS-14

7/16/21

1/17/20

1/17/20

1/17/20

7/17/20

1/17/20

4/19/19

1/21/2

1/17/20

7/19/13

7/15/22

7/16/2

7/16/2

7/15/22

1/17/14

7/19/13

1/15/16

4/17/2

DISTRICT DEPUTY DIRECTOR

TRANSPORTATION

ENGINEERS SEAL: FOR LIGHTING, SIGNALS, STANDARD CONSTRUCTION DRAWINGS TRAFFIC CONTROL 1/21/22 RM-1.1 1/15/21 HL-20.21 BP-2.1 1/15/21 MT-99.60 1/15/21 RM-3.1 7/20/18 HL-30.11 1/15/21 MT-100.00 1/21/22 RM-4.2 4/17/20 HL-30.21 4/17/20 MT-101.60 1/15/21 MT-101.70 7/19/19 HL-30.22 RM-4 4 CB-2-3 2-4, 7/16/21 RM-4.5 7/21/17 HL-30.32 4/17/20 MT-101.75 CB-3A 7/16/21 RM-4.6 7/19/13 HL-30.33 4/17/20 MT-101.90 7/16/21 RM-5.1 7/18/14 HL-30.41 1/21/22 MT-102.10 7/17/20 MT-102.20 1/18/19 HL-40.10 7/15/22 MT-103.10 HL-50.21 Mark & Hunter DM-1.2 7/17/15 HL-60.11 7/21/17 MT-105.10 DM-4.1 7/17/20 AS-2-15 1/18/19 HL-60.12 7/16/21 MT-110.10 DM-4.4 1/15/16 BR-2-15 1/21/22 HL-60.31 1/17/20 MT-120.00 ENGINEERS SEAL: GSD-1-19 1/15/21 7/15/22 HW-2.1 7/20/18 MT-95.30 FOR ENTIRE PLAN EXCEPT 7/20/18 MT-95.31 7/19/19 TC-16.22 1/21/22 HW-2.2

7/17/20 MT-95.32

7/20/18 MT-95.40

7/17/20 MT-95.41

1/15/21 MT-95.45

4/17/20 MT-99.30

1/18/19 PCB-91

7/19/13 SBR-1-20

7/16/21 SICD-2-14

1/19/18 TVPF-1-18

1/19/18 VPF-1-90

7/19/13 HL-10.11

1/18/13 HL-10.12

7/15/16 HL-10.13

7/15/16 HL-20.14

1/18/13

PSBD-2-07

SICD-1-21

BP-9.1

MGS-2.1

MGS-3.1

MGS-3.2

MGS-4.2

MGS-4.3

MGS-5.2

STRUCTURES & LIGHTING, SIGNALS. TRAFFIC CONTROL MATTHEW -76213,

SIGNED:_

ENGINEERS SEAL:

FOR STRUCTURES

STATE OF OANO

TRG/STERED

SIGNED:_

DATE:_8/19/2022

VOGT #E-75275

DATE: 6/1/22

SIGNED:_ DATE: 8/19/2022

7/18/14 MT-95.60 TS-14 7/20/18 MT-95.70 1/17/20 TC-41.30 10/18/13 7/20/18 MT-98.10 1/17/20 TC-41.40 10/18/1 MT-98.20 TC-41.50 10/18/1 4/19/19 7/15/22 MT-98.29 1/17/20 TC-42.10 10/18/1 1/20/17 MT-98.30 7/16/21 TC-42.20 10/18/1 4/17/20 MT-99.20 1/15/16 4/19/19 TC-51.11

4/19/19 TC-21.21

1/17/20 TC-22.10

1/17/20 TC-51.12

TC-22.20

TC-41.10

1/17/20

1/17/20

DIRECTOR, DEPARTMENT OF

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

ELECTRIC

DISTRIBUTION

1900 DRYDEN RD.

(937)-554-9063

TRANSMISSION

P.O. BOX 1247

(937)-331-4647

SIGNALIZATION

CITY OF RIVERSIDE

KATHY BARTLETT

RIVERSIDE, OHIO

(937)-233-1801

MARY EVANS

(937)-396-8611

ODOT ITS LAB

ODOT ITS

3691 TURNER ROAD

DAYTON, OHIO 45415

CATV

5200 SPRINGFIELD ST

CHARTER COMMUNICATIONS

MARY.EVANS@CHARTER.COM

1606 WEST BROAD STREET

COLUMBUS. OHIO 43223

MAIN LINE: (614) 387-4113

SEE SUPPLEMENTAL

REQUIREMENTS.

ITS DEVICE DOWNTIME

CEN.ITS.LAB@DOT.OHIO.GOV

SPECIFICATION 809 FOR ALL

DEPARTMENT OF PUBLIC SERVICE

GREGORY TOKAR

DAYTON, OHIO 45401

DAYTON, OHIO 45439

BILL WARD

 $\Delta F S$

AES

WATER/SEWER

UTILITIES

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MONTGOMERY COUNTY ENVIRONMENTAL SERVICES EDWARD SCHLAACK 1850 SPAULDING ROAD DAYTON, OHIO 45432-3732 (937)-781-2632

CITY OF DAYTON DEPARTMENT OF WATER BEN SWAIN 320 WEST MONUMENT ST. DAYTON, OHIO 45402 (937)-333-3737

FIBER OPTIC

WINDSTREAM COMMUNICATIONS LEON TAYLOR 2165 S.R. 133 SOUTH BLANCHESTER, OH 45107 (937)-725-5358

THE OHIO BELL TELEPHONE COMPANY HOWARD LAUDERMILK OFFICE: (937) 296-3588 CELL: (937) 286-7218 HL1596@ATT.COM

3233 WOODMAN DR DAYTON, OHIO 45420 AT&T TRANSMISSION

DUANE SEARS 7201 FAR HILL AV CENTERVILLE, OHIO 45459

(937)-562-1957

LUMEN TERRY SPAW 9490 MERIDIAN WAY WEST CHESTER, OH 45069 (513) 644-8933

NATIONALRELO@CENTURYLINK.COM

VECTREN ENERGY DELIVERY OF OHIO JEFFREY PIKE 6500 CLYO ROAD

CENTERVILLE, OHIO 45459 (937)-312-2539

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JEFFREY.T.PIKE@CENTERPOINTENERGY.COM

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

POST-CONSTRUCTION BRIDGE INSPECTION

AT LEAST TWO WEEKS PRIOR TO OPENING THE BRIDGE TO TRAFFIC, THE CONTRACTOR SHALL NOTIFY THE ODOT DISTRICT 7 BRIDGE INSPECTION ENGINEER (937-497-6884) TO ALLOW FOR THE NATIONAL BRIDGE INSPECTION STANDARDS (NBIS) REQUIRED POST-CONSTRUCTION INITIAL INSPECTION OF THE BRIDGE.

DRINKING WATER RESOURCES PROTECTION

PORTIONS OF THE PROJECT ARE LOCATED WITHIN THE BOUNDARIES OF A DESIGNATED SOLE SOURCE AQUIFER. BEST CONSTRUCTION PRACTICES ARE TO BE IMPLEMENTED TO MINIMIZE WATER QUALITY IMPACTS. IDLE EQUIPMENT, PETROCHEMICALS, AND TOXIC/HAZARDOUS MATERIALS SHALL NOT BE STORED NEAR DRAINAGE WAYS, DITCHES OR STREAMS. REFUELING SHALL NOT BE UNDERTAKEN NEAR DRAINAGE WAYS, DITCHES OR STREAMS. A SPILL CONTAINMENT KIT IS TO BE MAINTAINED ON-SITE THROUGHOUT CONSTRUCTION ACTIVITIES. SPILLS OF FUELS, OILS, CHEMICALS, OR OTHER MATERIALS WHICH COULD POSE A THREAT TO GROUNDWATER SHALL BE CLEANED UP IMMEDIATELY. IF THE SPILL IS A REPORTABLE AMOUNT, THE LOCAL FIRE DEPARTMENT, LOCAL EMERGENCY COORDINATOR (937-901-5112) AND THE OEPA (1-800-282-9378) MUST BE CONTACTED WITHIN 30 MINUTES OF KNOWLEDGE OF THE RELEASE.

PROTECTION OF CREEKSIDE TRAIL

THE ENGINEER SHALL INVITE FIVE RIVERS METROPARKS (JOSEPH ZIMMERMAN AT 937-277-4825 OR JOSEPH.ZIMMERMAN@METROPARKS.ORG) AND MIAMI VALLEY REGIONAL PLANNING COMMISSION (MLINDSAY@MVRPC.ORG) TO THE PRE-CONSTRUCTION MEETING. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL VERIFY THE DETOUR ROUTE FOR THE TRAIL.

THE CONTRACTOR SHALL POST NOTICE OF THE UPCOMING DETOUR ON CREEKSIDE TRAIL AT LEAST TWO WEEKS PRIOR TO THE START OF THE DETOUR. THE CONTRACTOR SHALL ENSURE THAT CREEKSIDE TRAIL IS KEPT OPEN TO TRAFFIC WHEN SAFE FOR USERS. THE CONTRACTOR SHALL INSTALL APPROPRIATE SIGNAGE/BARRIERS ON THE TRAIL TO PROTECT THE PUBLIC.

OUTSIDE OF THE ESTABLISHED CONSTRUCTION LIMITS, THE CONTRACTOR SHALL NOT STAGE EQUIPMENT OR MATERIALS ON THE TRAIL.

THE CONTRACTOR MUST RESTORE ALL AREAS OF CREEKSIDE TRAIL DISTURBED BY CONSTRUCTION PRIOR TO FINALIZATION OF THE PROJECT. THE CONTRACTOR SHALL PROVIDE FIVE RIVERS METROPARKS (JOSEPH ZIMMERMAN AT 937-277-4825 OR JOSEPH.ZIMMERMAN@METROPARKS.ORG) AN OPPORTUNITY TO INSPECT AFFECTED SEGMENTS OF THE TRAIL PRIOR TO PROJECT FINALIZATION; THE CONTRACTOR SHALL ADDRESS CONSTRUCTION-RELATED CONCERNS TO THE SATISFACTION OF FIVE RIVERS METROPARKS.

COST FOR RESTORATION WORK CAUSED BY THE CONTRATOR'S MEANS AND METHODS SHALL BE BORNE BY THE CONTRACOR.

AES UTILITY COORDINATION

AES OWNES AND MAINTAINES 138 KV TRANSMISSION LINES PARALLEL TO US-35 WHICH CROSSES WOODMAN DR NEAR STA. 21+75. TWO WOOD SUPPORT STRUCTURES ARE IN CONFLICT WITH THE PROPOSED WORK NEAR RAMP B. THESE STRUCTURES WILL REMAIN IN PLACE UNTIL TWO NEW POLES ARE CONSTRUCTED APPROXIMATELY 30' WEST OF THE EXISTING POLES.

THE NEW POLES WILL BE CONSTRUCTED BY AES IN NEW EMBANKMENT THAT WILL BE PLACED BY THE CONTRACTOR ALONG THE RAMP B SUP. THE NEW EMBANKMENT SHALL BE CONSTRUCTED BETWEN SUP STA. 56+00 AND RAMP B STA. 29+50 TO PROVIDE AES SPACE FOR RELOCATION. THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER WITH A SCHEDULE SHOWING WHEN THE EMBANKMENT WILL CONSTRUCTED SO THE ENGINEER CAN COORDINATE WITH AES. THE CONTRACTOR SHALL ALLOW AES ACCSS TO THE WORK AREA TO PLAN AND PERFORM THE RELOCATION PRIOR TO COMPLETING WORK NEAR THE EXISTING POLES.

PETROLEUM CONTAMINATED SOILS

BASED ON PAST LAND USE, PETROLEUM-CONTAMINATED SOILS WILL BE ENCOUNTERED IN THE VICINITY OF THE MARANATHA CAR COMPANY (SOUTH SIDE OF US 35 FROM STA. 618+00 TO STA. 622+00).

PCE-CONTAMINTED SOILS

ENVIRONMENTAL STUDIES INDICATE PCE-CONTAMINATED SOILS WILL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES BETWEEN STA. 618+00 AND STA. 620+00.

PCE-CONTAMINTED SOILS

IN THE EVENT CONTAMINATED MATERIALS ARE ENCOUNTERED, THE CONTRACTOR SHALL MANAGE THIS MATERIAL ACCORDING TO THE FOLLOWING NOTES:

ALL MATERIAL EXCAVATED BY THE CONTRACTOR MAY BE STOCKPILED IN AN AREA PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE ENGINEER MAY PERMIT TEMPORARY STORAGE OF THE EXCAVATED MATERIAL IN A LINED AND COVERED ROLL-OFF BOX. THE ENGINEER MAY PERMIT TEMPORARY STORAGE OF THE EXCAVATED MATERIAL ON AN IMPERMEABLE MEMBRANE. THE MEMBRANE SHALL BE SURROUNDED BY BALES OF STRAW TO PREVENT THE SUSPECTED SOILS FROM COMING IN CONTACT WITH THE ORIGINAL SOILS. AN IMPERMEABLE MEMBRANE SHALL BE PLACED OVER THE STOCKPILE TO PREVENT CONTACT WITH PRECIPITATION AND/OR SURFACE RUN-OFF. THE ENGINEER MAY PERMIT THE CONTRACTOR TO DIRECT LOAD THE EXCAVATED CONTAMINATED MATERIAL INTO TRUCKS.

THIS MATERIAL SHALL BE PROPERLY TESTED, TRANSPORTED, AND DISPOSED OF IN A LICENSED (BY THE LOCAL HEALTH DEPARTMENT) AND PERMITTED (BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY) SOLID WASTE FACILITY. IF REQUIRED BY THE SOLID WASTE FACILITY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING SAMPLING AND ANALYSIS OF THIS MATERIAL.

THE CONTRACTOR SHALL FURNISH ALL THE LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PROPERLY HANDLE, STORE (IF NECESSARY), TEST FOR DISPOSAL, TRANSPORT, AND DISPOSE OF REGULATED MATERIALS, INCLUDING ANY REQUIRED PERMITS, APPROVALS, OR FEES WITHIN THE LIMITS IDENTIFIED ABOVE. PAYMENT FOR THIS WORK SHALL BE MADE AT THE CONTRACT PRICE BID PER TON. THE BASIS FOR CONVERSION FROM TONS TO CUBIC YARDS IS 1.5 TON/CUBIC YARD. THE FOLLOWING ESTIMATED CONTINGENCY QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM 690. WORK INVOLVING PETROLEUM-CONTAMINATED SOIL

ITEM 690, WORK INVOLVING SOLID WASTE (PCE CONTAMINATED SOIL)

25 TONS

25 TONS

ENVIRONMENTAL STUDIES HAVE SHOWN THERE IS A POTENTIAL

POSSIBLE ORPHAN UNDERGROUND STORAGE TANKS

FOR ORPHAN UNDERGROUND STORAGE TANKS (USTS) IN VICINITY OF 3917 LINDEN (STA. 618 TO STA. 620).

THE CONTRACTOR SHALL REMOVE ANY ORPHAN USTS IN ACCORDANCE WITH ODOT CMS 202.08 AND PROVIDE AT LEAST TWO (2) COPIES OF THE CLOSURE REPORT TO THE ENGINEER, ONE FOR SUBMITTAL TO THE BUREAU OF UNDERGROUND STORAGE TANKS REGULATIONS (BUSTR) AND THE SECOND FOR ODOT'S RECORDS.

ALL COSTS AND WORK ASSOCIATED WITH THE COMPLIANCE OF THE AFOREMENTIONED RULES OR REGULATIONS SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM SPECIAL - REGULATED UNDERGROUND STORAGE TANK REMOVAL. UNDERGROUND STORAGE TANKS AND CONTENTS SHALL BE REMOVED IN THEIR ENTIRETY, AND SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF BY HIM. IF ANY CONTAMINATED WATER OR SOIL DISPOSAL OR REMEDIATION IS REQUIRED AS A RESULT OF THE UNDERGROUND STORAGE TANK REMOVAL, THEN THESE ITEMS OR WORK SHALL BE HANDLED UNDER OTHER ITEMS IN THE CONTRACT.

ITEM 202, REGULATED UNDERGROUND STORAGE TANK REMOVED

TWO (2) EACH

NON-FRIABLE ASBESTOS-CONTAINING MATERIALS

NON-FRIABLE ASBESTOS-CONTAINING ELECTRICAL WIRE AND RAIL PADDING HAVE BEEN IDENTIFIED ON THE BRIDGES. THESE MATERIALS ARE TO BE REMOVED PRIOR TO THE START OF CONSTRUCTION IN A MANNER THAT WILL ENSURE THE MATERIAL DOES NOT BECOME FRIABLE. THE DISPOSAL OF THE MATERIAL SHALL COMPLY WITH ALL APPLICABLE STATE AND FEDERAL LAWS & REGULATIONS RELATING TO DISPOSAL OF ASBESTOS-CONTAINING MATERIALS, INCLUDING OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS AND THE NATIONAL EMISSION STANDARD FOR HAZARDOUS AIR POLLUTANTS (NESHAP) STANDARDS.

UNLESS RELOCATED BY THE UTILITY OWNER PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO PROPERLY HANDLE, TRANSPORT AND DISPOSE OF ASBESTOS-CONTAINING MATERIALS IN A LICENSED SOLID WASTE LANDFILL; THE LANDFILL MUST BE PERMITTED BY THE OEPA TO ACCEPT ASBESTOS-CONTAINING MATERIALS. THE BASIS OF PAYMENT SHALL BE PRICE PER LINEAR FOOT. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE.

ITEM 202, ASBESTOS PIPE REMOVED 330 LINEAR FEET ITEM 690, SPECIAL-ASBESTOS ABATEMENT -ASBESTOS RAIL PADDING 10 SF

NOISE MINIMIZATION

THE CONTRACTOR SHALL ENSURE THAT ALL HEAVY EQUIPMENT IN USE DURING CONSTRUCTION IS EQUIPPED WITH EFFECTIVE MUFFLERS TO MINIMIZE NOISE. THE CONTRACTOR SHALL AVOID UNNECESSARY IDLING OF EQUIPMENT. THE CONTRACTOR SHALL ENSURE THAT EQUIPMENT AND VEHICLE STAGING AREAS ARE LOCATED AS FAR FROM THE RESIDENTIAL AREAS ADJACENT TO THE CORRIDOR AS POSSIBLE.

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.

			-	SH	EET N	UM.	1					PART.		ITEM	ITEM	UNIT		DESCRIPTION		UNIT DESCRIPTION	
FICE ALCS	14	15		82		241		240		252	01/NHS/OT	02/NHS/BR	03/NHS/OT		EXT	TOTAL			SEE SHEE NO		
																		PA VEMENT			
		200									200			253	01001	200		PAVEMENT REPAIR, AS PER PLAN (A)	15		
		200									200			253	01001	200	SY	PAVEMENT REPAIR, AS PER PLAN (B)	15		
566											566			254	01000	566	SY	PAVEMENT PLANING, ASPHALT CONCRETE (VARIABLE DEPTH)			
		250									250			254	01600	250		PATCHING PLANED SURFACE			
,299	28					-					2 , 327			301	56000	2 , 327	CY	ASPHALT CONCRETE BASE, PG64-22, (449)			
,320											4,320			304	20000	4,320	CY	AGGREGATE BASE			
											, , , , , ,					.,					
,163											2,163			407	20000	2,163	GAL	NON-TRACKING TACK COAT			
726											726			442	22101	726	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG76-22M	15		
925											925			442	22400	925		ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (449)	70		
,617											9,617			452	14110	9,617	SY	11" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P			
				790							790			609	12000	790	FT	COMBINATION CURB AND GUTTER, TYPE 2			
				516							516			609	24000	516		CURB, TYPE 4-A			
				505							505			609	24510	505	FT	CURB, TYPE 4-C			
				491							491			609	26000	491	FT	CURB, TYPE 6			
				69							69			609	54000	69	SY	6" CONCRETE TRAFFIC ISLAND			
,215											2,215			618	40100	2,215	FT	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)			
48											48			823	40000	48	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449)			
56											56			823	42000	56	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)			
																		LIGHTING			
					~		~~~	~24\	$\sim\sim$	$\sim\sim$	~24~	$\sim\sim$						CONNECTION, UNFUSED PERMANENT			
						24							24	625	10614	24	EACH	LIGHT POLE ANCHOR BOLTS ON STRUCTURE			
						<u> </u>		2,379			2,379			625	23200	2,379		NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE			
							\sim	698			698	\sim	~~~	625	24320	~698~	∽ FT	1-1/2" DUCT CABLE WITH THREE NO. 4 AWG 2400 VOLT CABLES			
						731	}	184			184		731	625	25400 (915		CONDUIT, 2", 725.04			
					`	+		231			231			625	25500	~~2 31 ~~	FT	CONDUIT, 3", 725.04			
								191			191			625	25902	191	FT	CONDUIT, JACKED OR DRILLED, 725.04: 3"			
								10			10			625	25910	10	FT	CONDUIT CLEANED AND CABLES REMOVED	2.		
						m							$\sim\sim$	h		~~~~	<u> </u>				
					$\overline{}$	515	\longleftarrow	1,093	·	~~~	1,093	~~~	515 6	625 625	29002 29920	1,608 6	FT EACH	TRENCH, 24" DEEP STRUCTURE JUNCTION BOX			
						2							2	625	29940	2	EACH	BARRIER JUNCTION BOX			
														625	30700		EACH EACH	BARRIER JUNCTION BOX PULL BOX, 725.08, 18" PULL BOX, 725.08, 18", AS PER PLAN			
						4							· · · 4 · · ·	625	30701	4	EACH	PULL BOX, 725.08, 18", AS PER PLAN	2.		
								4			4			625	31510	4		PULL BOX REMOVED			
								7			7			020	31010	7	LAUIT	TOLL BOX NEWOYLD			
								1			1			625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM			
								1			1			625	39520	1	EACH	PULL BOX CLEANED	23		
								LS 6			LS 6			SPECIAL 625	62540000 75800	LS 6	EACH	MAINTAIN EXISTING LIGHTING DISCONNECT CIRCUIT	2.		
								0						020	70000	U	LAUIT	DISCONNECT CINCOLT			
								1			1			625	98000	1	EACH	LIGHTING, MISC.: REMOVE AND REINSTALL UNDERPASS LIGHTING SYSTEM	2.		
				~~~	~~~	 	~~~	~~~	\sim	$\sim\sim$	$\sim\sim$	$\sim\sim$	~~~	~~~	~~~~	~~~	~~~	······································			
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-	SHEET NUM.	ITEM UNIT DESCRIPTION		UNIT	SEE SHEET	ALCULATEI TDP						
	252	01/1	/NHS/OT (02/NHS/BR	03/NHS/OT		EXT	TOTAL	• • • • • • • • • • • • • • • • • • • •	2200 m 110 m	NO.	CALC
										STRUCTURE OVER 20 FOOT SPAN (MOT-835-0002)	1	
	356			LUMP 356		202 202	11203 22900	LS 356	SY	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN APPROACH SLAB REMOVED	250, 255-25	56
	356			356 356		202	23500	356	SY	WEARING COURSE REMOVED	1	-
	LUMP			LUMP		503	11100	LS		COFFERDAMS AND EXCAVATION BRACING		4
	LUMP			LUMP		503	21300	LS		UNCLASSIFIED EXCAVATION		-
	11,646			11,646	~~~	509	10000	11,646	LB	EPOXY COATED REINFORCING STEEL		
	(110,652)			109,830	822	509	40000	(L 110.652	LB	REINFORCING STEEL, MISC.: GALVANIZED REINFORCING STEEL	250	
	6,862			6,862 100		509 509	40000 20001	6,862	LB LB	REINFORCING STEEL, MISC.: GALVANIZED REINFORCING STEEL, AS PER PLAN REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	250&286 250	6
	2,494			2,494		509	30021	2,494	FT	NO. 4 GFRP DEFORMED BARS, AS PER PLAN	288	-
	, ,			,								
	56			56		510	10000	56	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	1	
	2			2		511	33500	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE		┤ >
	386			385	\sim	511	34446	386		CLASS.QCZ-CONCRETE-WITH-QCXQA, BRIDGE-DECK	+	<u> </u>
	43			40	3,	511	(34451)	43	CY(CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN	287&289	9) \subseteq
	3			3		511	41010	3	CY CY	PELASS DEL CONCRETE, PIER ABOVE FOOTING	$\psi \psi \psi$	7 2
	82			82		511	44110	82	CY	CLASS QCI CONCRETE, ABUTMENT NOT INCLUDING FOOTING	+	2
	76			75	$\sim \sim $	511	51513	76	CY	CLASS QC2 CONCRETE WITH QC/QA, SIDEWALK, AS PER PLAN	285	ري ا
	1,364			1,364		512	10101	1,364	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	250	┨╏
	6 27			6 27		512 512	33000 10600	6 27	SY FT	TYPE 2 WATERPROOFING CONCRETE REPAIR BY EPOXY INJECTION		⊣ ``
							70000		, ,		1	╛
	292,718			292,718		513	10240	292,718	LB	STRUCTURAL STEEL MEMBERS, LEVEL 2		_ Z
	5,252			5 , 252		513	20000	5,252	EACH	WELDED STUD SHEAR CONNECTORS		⊢ Щ
	17,500			17,500		514	00060	17,500	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT		ا ك
	17,500			17,500		514	00066	17,500	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT		
						540						4
±	5 91			5 91		516 516	13200 13600	5 91	SF SF	½" PREFORMED EXPANSION JOINT FILLER I" PREFORMED EXPANSION JOINT FILLER	1	-
92	161			161		516	13900	161	SF	2" PREFORMED EXPANSION JOINT FILLER		
200	222			222		516	14020	222	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL		
٤	10			10		516	44001	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN 11"x17"x1 11/6" WITH VARYING LOAD PLATE, BEVELED	268	4
3	2			2		516	44001	2	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN 11"x17"x1 11/6" WITH VARYING LOAD PLATE AND HP ASSEMBLY, BEVELED	269	-
14:	1			1		516	44001	1	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN 11/2/11/2/2/11/2/2/2/2/2/2/2/2/2/2/2/2/	270	1
61:6	26			26		516	44101	26	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN 11"x14"x2 1/6" WITH LOAD PLATE AND HP ASSEMBLY, BEVELED	267	
022	147			147		C17	75107	147	ГТ	DATI THE CONCERTS DARROST WITH TWIN CITES THE DATI INC. AND MANDAL PROTECTION SCHOOL SCHOOL AC DED DI AN	200	_
2/5	147			147		517	75123	147	FT	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING AND VANDAL PROTECTION FENCE), AS PER PLAN	286	-
0	105			105		518	21200	105	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		
+												
hee ——	LUMP			LUMP		SPECIAL	51960000	LS		PATCHING CONCRETE STRUCTURE (ABUTMENT PATCHING)	250	
S	412			412		526	(15010)	412	ξΥ	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=13")	\longrightarrow	
gb.	104			104		526	90020	104		PYPE-B-INSTALLATION	#W -	
900												
366	LUMP			LUMP		SPECIAL	53000200	LS		STRUCTURES (AESTHETIC LETTERING)	251, 290	<u>0</u>
1027	123			123		607	39901	123	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN	251, 289	9 9
5/8	124			124		607	39931	124	FΤ	VANDAL PROTECTION FENCE, 12' CURVED, COATED FABRIC, AS PER PLAN	251	
0	245			245		607	39994	245	FT	TEMPORARY VANDAL FENCE, TYPE B		c
rs/	10		\dashv	10		608	53020	10	SF	DETECTABLE WARNING	1	- I
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EXISTING CABLE AND CONDUIT

THE LOCATION OF EXISTING CIRCUIT CABLE, AS SHOWN IN THIS PLAN, WERE APPROXIMATED FROM EXISTING DESIGN PLANS. PRIOR TO INITIATING ANY NEW TRENCHING, THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING CIRCUITS, AND VERIFY THE ASSUMED CIRCUIT INFORMATION.

IT IS ALSO ASSUMED THAT PROPOSED FOUNDATION LOCATIONS AND PROPOSED TRENCH LOCATIONS MAY IMPACT EXISTING CIRCUITS. IF CONSTRUCTION PROCEDURES WILL IMPACT ENERGIZATION OF AN EXISTING LIGHTING UNIT FOR MORE THAN TWENTY-FOUR HOURS, THEN TEMPORARY CIRCUITS SHALL BE PROVIDED. PER "ITEM 625 SPECIAL, MAINTAIN EXISTING LIGHTING". THE CONTRACTOR SHALL NOT ADJUST PROPOSED FOUNDATION OR TRENCH LOCATIONS. WITHOUT APPROVAL IN WRITING FROM THE ENGINEER.

EXISTING CIRCUITS WHICH HAVE BEEN ABANDONED, AS INDICATED IN THE PLAN (OR AS A RESULT OF THE FIELD REVIEW/CONFIRMATION), MAY BE ABANDONED IN PLACE OR REMOVED. REMOVED CIRCUIT CABLE SHALL BE DISPOSED OF BY THE CONTRACTOR. THE REMOVAL OR ABANDONMENT OF THESE CIRCUITS SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS LIGHTING BID ITEMS.

REMOVAL OF CIRCUITS IN EXISTING UNDERGROUND OR BARRIER CONDUITS TO BE REUSED: WORK IS INCLUDED UNDER ITEM 625, "CONDUIT CLEANED AND CABLES REMOVED".

625, PULL BOX CLEANED

THIS ITEM OF WORK SHALL CONSIST OF CLEANING AN EXISTING PULL BOX BY REMOVING ANY EXISTING CABLES NOT BEING RECONNECTED, AND DEBRIS SO THAT NEW CABLES CAN BE INSTALLED, ANY UNUSED OPENINGS SHALL BE CLOSED. DISTURBED AREAS NEAR THE PULL BOX SHALL BE CLEARED OF WEEDS OR DEBRIS AND SHALL BE FULLY RESTORED. MATERIAL REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OF THE PROJECT SITE.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "PULL BOX CLEANED" FOR EACH PULL BOX CLEANED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625 - CONDUIT CLEANED AND CABLES REMOVED

THIS ITEM SHALL CONSIST OF CLEANING AN EXISTING CONDUIT BY REMOVING EXISTING CABLES, MUD, AND DEBRIS SO THAT NEW CABLE MAY BE INSTALLED. INCIDENTAL TO THE CLEANING IS THE INSTALLATION OF BUSHINGS AND/OR COUPLINGS ON THE ENDS OF EXISTING CONDUIT AS REQUIRED. IN ADDITION. THIS ITEM WILL ALSO INCLUDE REPAIRS TO EXISTING CONDUIT, WHEN NECESSARY TO PROVIDE A SECURE CONNECTION. ALL CABLE AND DEBRIS SHALL BE PROPERLY REMOVED FROM THE PROJECT SITE. DISTURBED AREAS SHALL BE PROPERLY RESTORED.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 625, "CONDUIT CLEANED AND CABLES REMOVED" PER FOOT OF CONDUIT CLEANED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625, PULL BOX, 18", AS PER PLAN

ALL PULL BOXES SHALL MEET THE REQUIREMENTS OF CM&S SPECIFICATION 725.08, EXCEPT THE PULL BOX LIDS FOR BRIDGE DECORATIVE LIGHTING SHALL BE STAMPED "RIVERSIDE".

PAYMENT WILL BE MADE AT EACH PULL BOX AT THE UNIT PRICE BID FOR EACH C&MS ITEM 625 "PULL BOX, 18", AS PER PLAN: AND SHALL BE FULL COMPENSATION FOR FURNISHING AND PLACING EACH PULL BOX FOR DECORATIVE LIGHTING.

CONDUIT EXPANSION AND DEFLECTION

EXPANSION FITTINGS SHALL BE OZ TYPE AX. CROUSE HINDS TYPE XJG. OR EQUAL APPROVED BY THE ENGINEER. EACH EXPANSION FITTING SHALL PROVIDE 4 INCHES TOTAL MOVEMENT AS SPECIFIED BY THE PLAN DETAILS, AND SHALL HAVE AN EXTERNAL COPPER BONDING JUMPER, UNLESS SPECIFIED OTHERWISE SPECIFIED BY THE PLAN DETAILS.

DEFLECTION COUPLINGS SHALL BE OZ TYPE DX, CROUSE HINDS TYPE XD, OR EQUAL APPROVED BY THE ENGINEER. EACH DEFLECTION COUPLING SHALL HAVE AN EXTERNAL COPPER BONDING JUMPER, UNLESS SPECIFIED OTHERWISE BY THE PLAN DETAILS. MINIMUM DEFLECTION CAPABILITY: 25 DEGREES.

EXPANSION AND DEFLECTION FITTINGS FULLY OR PARTIALLY EMBEDDED IN CONCRETE. SOIL, OR SIMILAR MATERIAL SHALL BE COMPLETELY WRAPPED IN A NEOPRENE SLEEVE OR SHEET OF 1/2-INCH MINIMUM THICKNESS. SECURE NEOPRENE WRAP WITH TIE-WRAPS PRIOR TO EMBEDMENT OF THE FITTING.

625, POWER SERVICE, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF THE SPECIFICATIONS. THE FOLLOWING IS ADDED. THE POWER SUPPLYING AGENCY FOR THIS PROJECT IS:

POWER COMPANY - AES

ADDRESS - 1065 WOODMAN DR, DAYTON, OH 44035

PHONE NUMBER - 937.224.6000 CONTACT NAME - WILLIAM WARD

THE ENGINEER SHALL ENSURE THAT EACH POWER SERVICE ELECTRICAL ENERGY ACCOUNT IS IN THE NAME OF AND THAT THE BILLING ADDRESS IS TO THE MAINTAINING AGENCY NOTED IN THE PLANS. THIS SHALL BE DONE NOT ONLY FOR EACH NEW POWER SERVICE ESTABLISHED BY THIS PROJECT BUT ALSO FOR EACH EXISTING POWER SERVICE. SINCE THERE MAY BE A REASSIGNMENT OF THE RESPONSIBILITY FOR AN EXISTING SERVICE AS A RESULT OF THE WORK PERFORMED BY THIS PROJECT.

PAYMENT WILL BE MADE AT THE UNIT BID PRICE FOR EACH CMS ITEM 625, "POWER SERVICE, AS PER PLAN" WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

HIGH VOLTAGE TEST WAIVED

THE HIGH VOLTAGE TEST SHALL NOT BE PERFORMED ON THE CIRCUITS CONSTRUCTED BY THIS PROJECT, SINCE THE TEST COULD DAMAGE THE PORTION OF THE COMPLETED CIRCUIT WHICH HAS BEEN IN SERVICE PRIOR TO THIS PROJECT.

<u> ITEM 625 - LIGHTING, MISC.: REMOVE AND REINSTALL UNDERPASS</u> LIGHTING SYSTEM

THIS ITEM SHALL CONSIST OF THE REMOVAL AND REPLACEMENT OF CONDUIT SYSTEMS IMPACTED BY THE BRIDGE WORK. THE CONTRACTOR SHALL REMOVE EXISTING CONDUITS MOUNTED TO BRIDGE BEAMS DESIGNATED FOR REMOVAL. THE CONTRACTOR SHALL REPLACE CONDUITS REMOVED FROM EXISTING BEAMS, AND MOUNT THE REPLACEMENT CONDUIT TO THE PROPOSED BEAMS, AND RESTORE ALL CIRCUIT CONNECTIONS. THE UNDERPASS LIGHTING MAY REMAIN OFF FOR A TIME NECESSARY TO COMPLETE THIS WORK. AS APPROVED BY THE ENGINEER.

PAYMENT SHALL BE MADE AT THE UNIT BID PRICE, UNDER CMS ITEM 625, "LIGHTING, MISC.: REMOVE AND REINSTALL UNDERPASS LIGHTING SYSTEM" FOR EACH UNDERPASS WITH LIGHTING SYSTEM REPAIRED, WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIAL AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM SPECIAL, MAINTAIN EXISTING LIGHTING

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THE CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING ON ROADWAYS WITHIN THE PROJECT LIMITS THAT ARE OPEN TO TRAFFIC DURING CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE ENTIRETY OF ANY CIRCUIT THAT PASSES THROUGH THE PROJECT LIMITS OF THE PROJECT, INCLUDING ANY PORTION OF A CIRCUIT THAT EXTENDS BEYOND THE PROJECT LIMITS. BEFORE ANY WORK IS STARTED IN THE IMMEDIATE VICINITY OF THE EXISTING LIGHTING CIRCUITS, REPRESENTATIVES OF ODOT, THE MAINTAINING AGENCY AND THE CONTRACTOR SHALL MAKE A VISUAL INSPECTION OF THE EXISTING ROADWAY LIGHTING CIRCUITS TO BE MAINTAINED. DURING THIS INSPECTION, A WRITTEN RECORD OF THE CONDITION OF EXISTING LIGHTING SHALL BE MADE BY ODOT'S REPRESENTATIVE. THIS WRITTEN REPORT SHALL NOTE INDIVIDUAL LUMINAIRES WHICH ARE NOT IN WORKING ORDER, INDIVIDUAL POLES WHICH ARE NOT STANDING, AND INDIVIDUAL CIRCUITS WHICH ARE NOT IN WORKING ORDER. THE COMPLETED REPORT SHALL BE SIGNED BY THE REPRESENTATIVES OF ODOT, THE MAINTAINING AGENCY AND THE CONTRACTOR.

IF, AS A RESULT OF THIS INSPECTION, IT IS DETERMINED THAT THE CONDITION OF THE EXISTING SYSTEM IS BELOW THAT REQUIRED FOR THE SAFETY OF THE TRAVELING PUBLIC, THEN THE MAINTAINING AGENCY SHALL MAKE THE REPAIRS NECESSARY TO RETURN THE SYSTEM TO AN ACCEPTABLE CONDITION. FOLLOWING THESE REPAIRS, THE SYSTEM SHALL AGAIN BE INSPECTED AND A REPORT SHALL BE MADE AND SIGNED AS OUTLINED HEREIN.

WHEN THE EXISTING SYSTEM IS IN AN ACCEPTABLE CONDITION, IT SHALL BE TURNED OVER TO THE CONTRACTOR WHO SHALL THEN BE REQUIRED TO MAINTAIN THE EXISTING LIGHTING TO THE CONDITION OUTLINED IN THIS REPORT WITH THE EXCEPTION OF KNOCKDOWNS DUE TO TRAFFIC ACCIDENTS.

REPLACEMENT OF KNOCKED DOWNED UNITS SHALL BE DONE ONLY WHEN THE ENGINEER HAS DETERMINED THAT THE REPLACEMENT OF THE KNOCKED DOWN UNIT IS NECESSARY AND SHALL BE PAID SEPARATELY ON A UNIT BASIS.

BETTERMENTS SHALL BE COVERED IN ITEMS OF WORK PERTAINING TO THE CONSTRUCTION OF PERMANENT IMPROVEMENT.

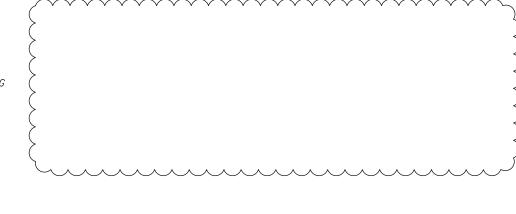
WHEN THE SEQUENCE OF CONSTRUCTION ACTIVITIES REQUIRES, OR SHOULD THE CONTRACTOR DESIRE, THE REMOVAL OF THE EXISTING LIGHTING BEFORE THE NEW LIGHTING IS OPERATIONAL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY LIGHTING OF THIS PORTION OF THE ROADWAY.

PRIOR TO INSTALLING SUCH LIGHTING, THE CONTRACTOR SHALL PREPARE AND SUBMIT A SET OF THE TEMPORARY LIGHTING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL.

THIS PLAN SHALL SHOW LOCATIONS OF POLES, LENGTHS OF BRACKET ARMS, STYLES OF LUMINAIRES, MOUNTING HEIGHTS, WIRING METHODS AND OTHER PERTINENT INFORMATION. THE TEMPORARY LIGHTING SHALL PROVIDE AN AVERAGE INITIAL INTENSITY OF 1.2 FOOTCANDLES (13 LUX) WITH AN AVERAGE TO MINIMUM UNIFORMITY NOT TO EXCEED 3:1. MOUNTING HEIGHT OF TEMPORARY LUMINAIRES SHALL NOT BE LESS THAN 30 FEET (9 METERS), AND THE MINIMUM OVERHEAD CONDUCTOR CLEARANCE SHALL BE 20 FEET (6 METERS). TEMPORARY OVERHEAD CONSTRUCTION SHALL NOT BE LESS THAN GRADE "A" FOR STRENGTH REQUIREMENTS AS DEFINED BY THE NATIONAL ELECTRIC SAFETY CODE. WOOD POLES WITH OVERHEAD WIRING MAY BE USED. HOWEVER, TEMPORARY LIGHTING SHALL MEET FEDERAL AND STATE SAFETY CRITERIA. IF BREAKAWAY POLES ARE USED TO MEET THESE CRITERIA, THEN UNDERGROUND WIRING SHALL BE USED, RECONDITIONED OR USED MATERIALS MAY BE FURNISHED FOR TEMPORARY LIGHTING.

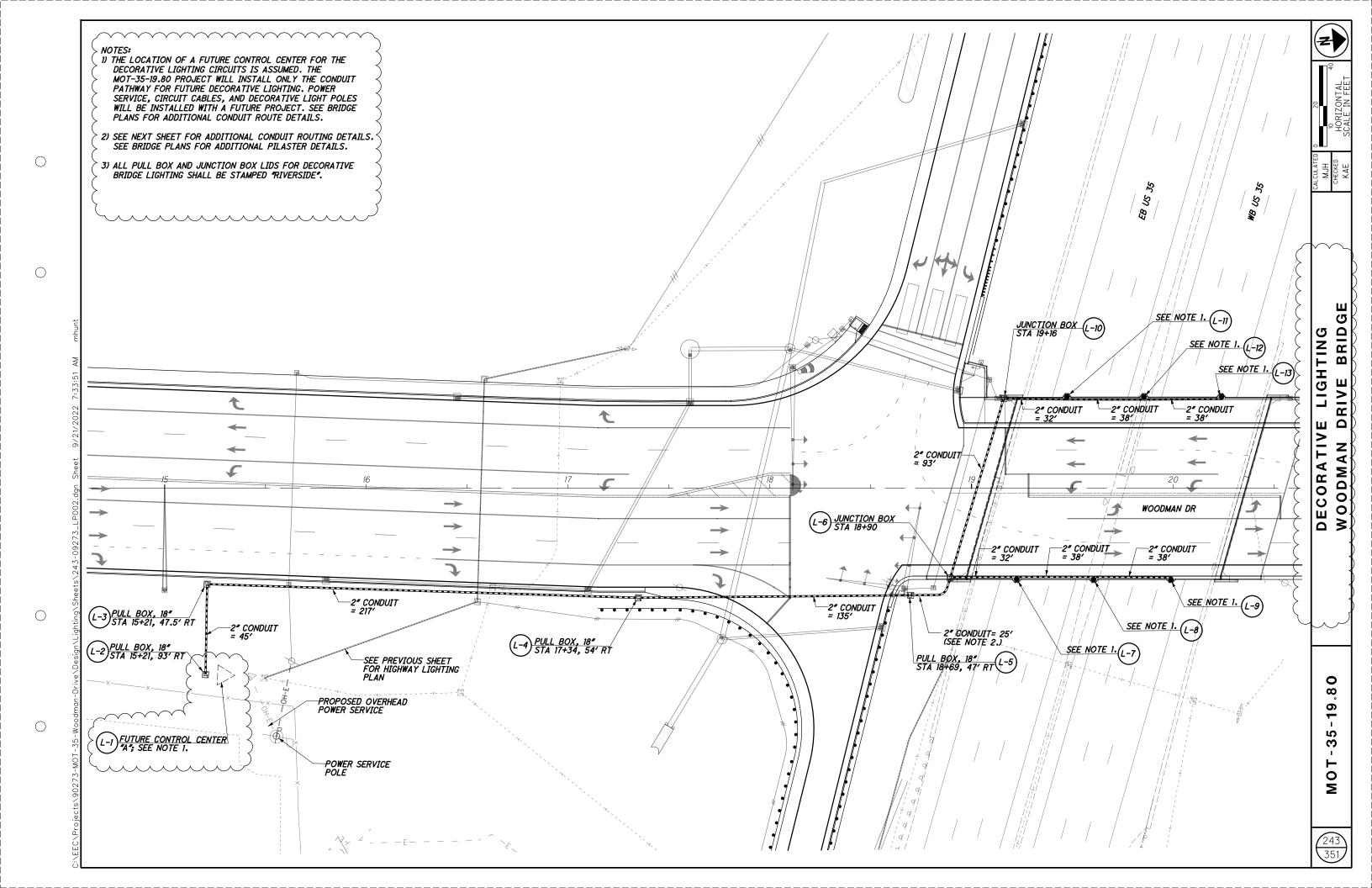
ALL MATERIALS NECESSARY TO COMPLETE THE TEMPORARY LIGHTING SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. WHEN NO LONGER NEEDED, THE TEMPORARY LIGHTING INSTALLATION SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.

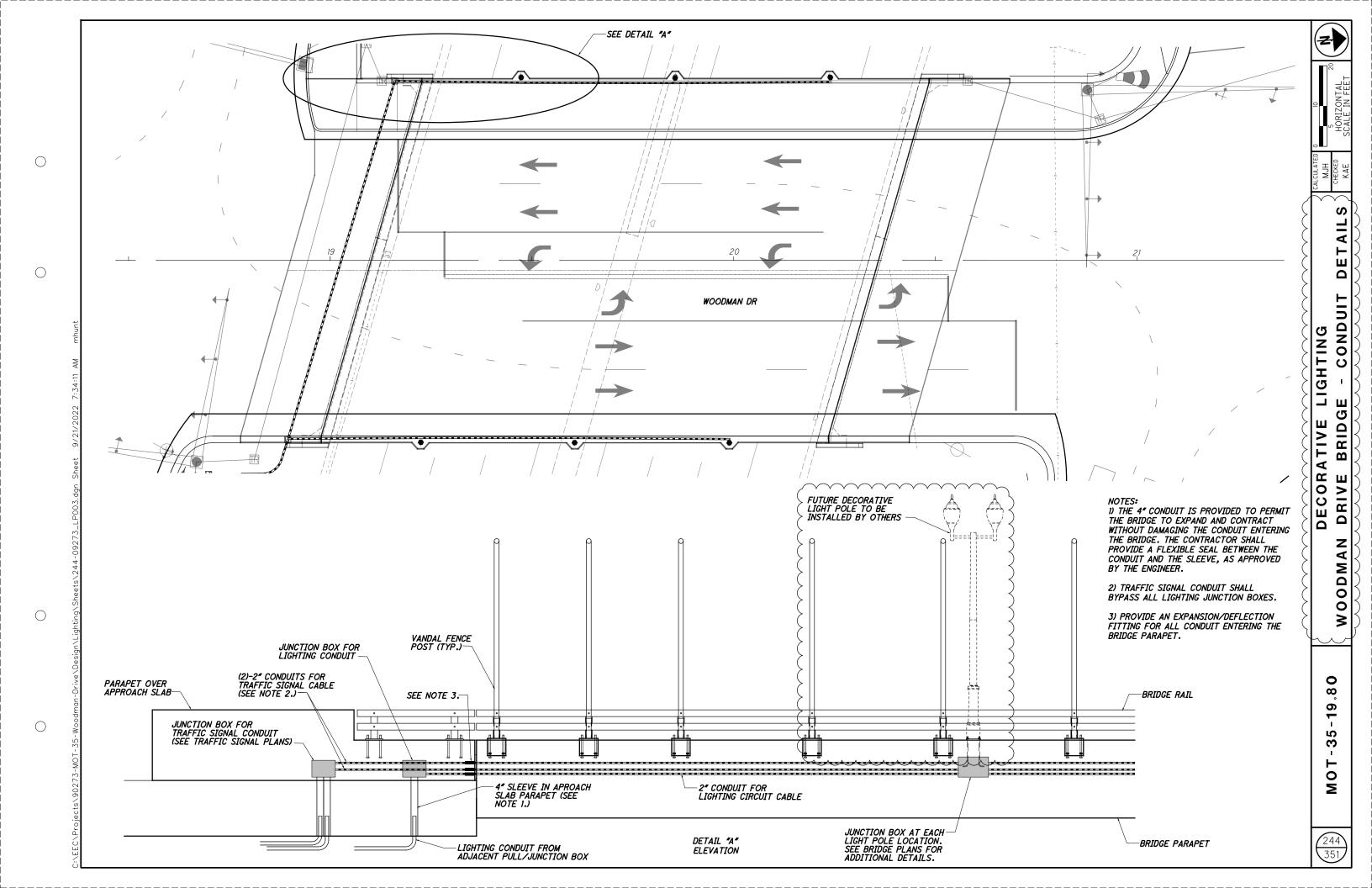
THE LUMP SUM PRICE BID FOR ITEM SPECIAL "MAINTAIN EXISTING LIGHTING" SHALL INCLUDE PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIAL AND INCIDENTALS NECESSARY TO MAINTAIN THE EXISTING LIGHTING AS SPECIFIED HEREIN.

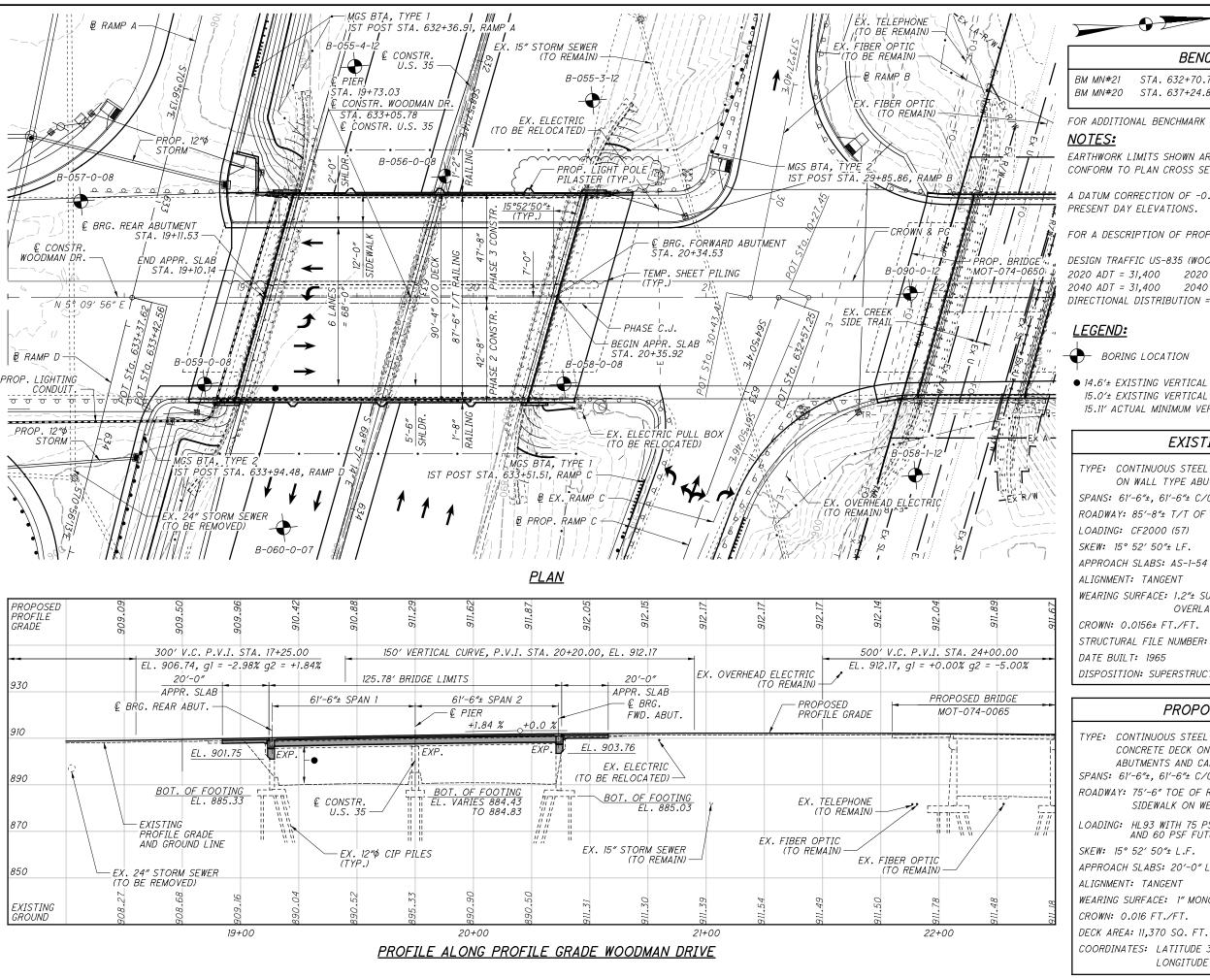


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SHEET NO.	CALL- OUT	LOCATION	SIDE		LIGHT POLE ANCHOR BOLTS ON STRUCTURE	CONDUIT, 2", 725.04	TRENCH, 24" DEEP	STRUCTURE JUNCTION BOX	BARRIER JUNCTION BOX	PULL BOX, 725.08, 18", AS PER PLAN													
		FROM - TO			EACH	FT	FT			EACH	\downarrow												
243	L-1	15+30	RT									+											
	L-1 TO L-2	15+30 TO 15+21	RT	>							K												1
	L-2 L-2 TO L-3	15+21 15+21 TO 15+21	RT RT	\rightarrow		45	45			1	H												H
	L-3	15+21	RT	\rightarrow		70	10			1												$\overline{}$	T\
	L-3 TO L-4	15+21 TO 17+34	RT			217	217																K
	L-4 L-4 TO L-5	17+34 17+34 TO 18+69	RT RT	+		135	135			1		+										\longrightarrow	1
	L-5	18+69	RT	>		,50	1,50			1	\Box	\pm								\pm			7
	L-5 TO L-6	18+69 TO 18+90	RT	>		25	25																1
	L-6 L-6 TO L-7	18+90 18+90 TO 19+22	RT RT	\rightarrow		32			1		+	+										\longrightarrow	K
	L-7	19+22	RT	\rightarrow	4	32		1															15
	L-7 TO L-8	19+22 TO 19+60	RT			38																	5
	L-8 L-8 TO L-9	19+60 19+60 TO 19+98	RT RT	\leftarrow	4	38		1			\downarrow												1
	L-9	19+98	RT		4	30		1			\forall												1
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	L-6 TO L-10 L-10	18+90 TO 19+16 19+16	RT<	\rightarrow		93	93		1		$\left \cdot \right $												K
	L-10 TO L-11	19+16 TO 19+47	LT	\rightarrow		32			1													-	15
	L-11	19+47	LT		4			1															>
	L-11 TO L-12 L-12	19+47 TO 19+85 19+85	LT LT	$\overline{\ }$	4	38		1			\downarrow												1
	L-12 TO L-13	19+85 TO 20+23	LT		,	38					\forall											$\overline{}$	1
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BENCHMARK DATA

STA. 632+70.78, ELEV. 890.01, OFFSET 9.55' LT. BM MN#20 STA. 637+24.85, ELEV. 890.67, OFFSET 53.68' RT

FOR ADDITIONAL BENCHMARK INFORMATION SEE ROADWAY PLANS.

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

A DATUM CORRECTION OF -0.87 WAS USED TO CALCULATE PRESENT DAY ELEVATIONS.

FOR A DESCRIPTION OF PROPOSED WORK, SEE SHEET 4/47.

DESIGN TRAFFIC US-835 (WOODMAN DRIVE): 2020 ADT = 31,400 2020 ADTT = 628 2040 ADT = 31,400 2040 ADTT = 628 DIRECTIONAL DISTRIBUTION = 53%

BORING LOCATION

• 14.6'± EXISTING VERTICAL CLEARANCE (BEFORE ADD LANE) 15.0'± EXISTING VERTICAL CLEARANCE (AFTER ADD LANE PID 89130) 15.11' ACTUAL MINIMUM VERTICAL CLEARANCE (15.0' REQ'D)

EXISTING STRUCTURE

TYPE: CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK ON WALL TYPE ABUTMENTS AND CAP AND COLUMN PIER

SPANS: 61'-6"±, 61'-6"± C/C BRG.

ROADWAY: 85'-8"± T/T OF RAILING

LOADING: CF2000 (57)

APPROACH SLABS: AS-1-54 (25'± LONG)

ALIGNMENT: TANGENT

WEARING SURFACE: 1.2"± SUPERPLASTICIZED DENSE CONCRETE OVERLAY

CROWN: 0.0156± FT./FT.

STRUCTURAL FILE NUMBER: 5703069

DISPOSITION: SUPERSTRUCTURE TO BE REPLACED IN PHASES

PROPOSED STRUCTURE

TYPE: CONTINUOUS STEEL BEAM WITH COMPOSITE REINFORCED CONCRETE DECK ON FULL-HEIGHT SEMI-INTEGRAL ABUTMENTS AND CAP AND COLUMN PIER

SPANS: 61'-6"±, 61'-6"± C/C BRG.

ROADWAY: 75'-6" TOE OF RAILING TO TOE OF CURB WITH 12'-0" SIDEWALK ON WEST SIDE

LOADING: HL93 WITH 75 PSF PEDESTRIAN LIVE LOAD AND 60 PSF FUTURE WEARING SURFACE

SKEW: 15° 52′ 50″± L.F.

APPROACH SLABS: 20'-0" LONG (AS-1-15 & AS-2-15)

WEARING SURFACE: 1" MONOLITHIC CONCRETE

CROWN: 0.016 FT./FT.

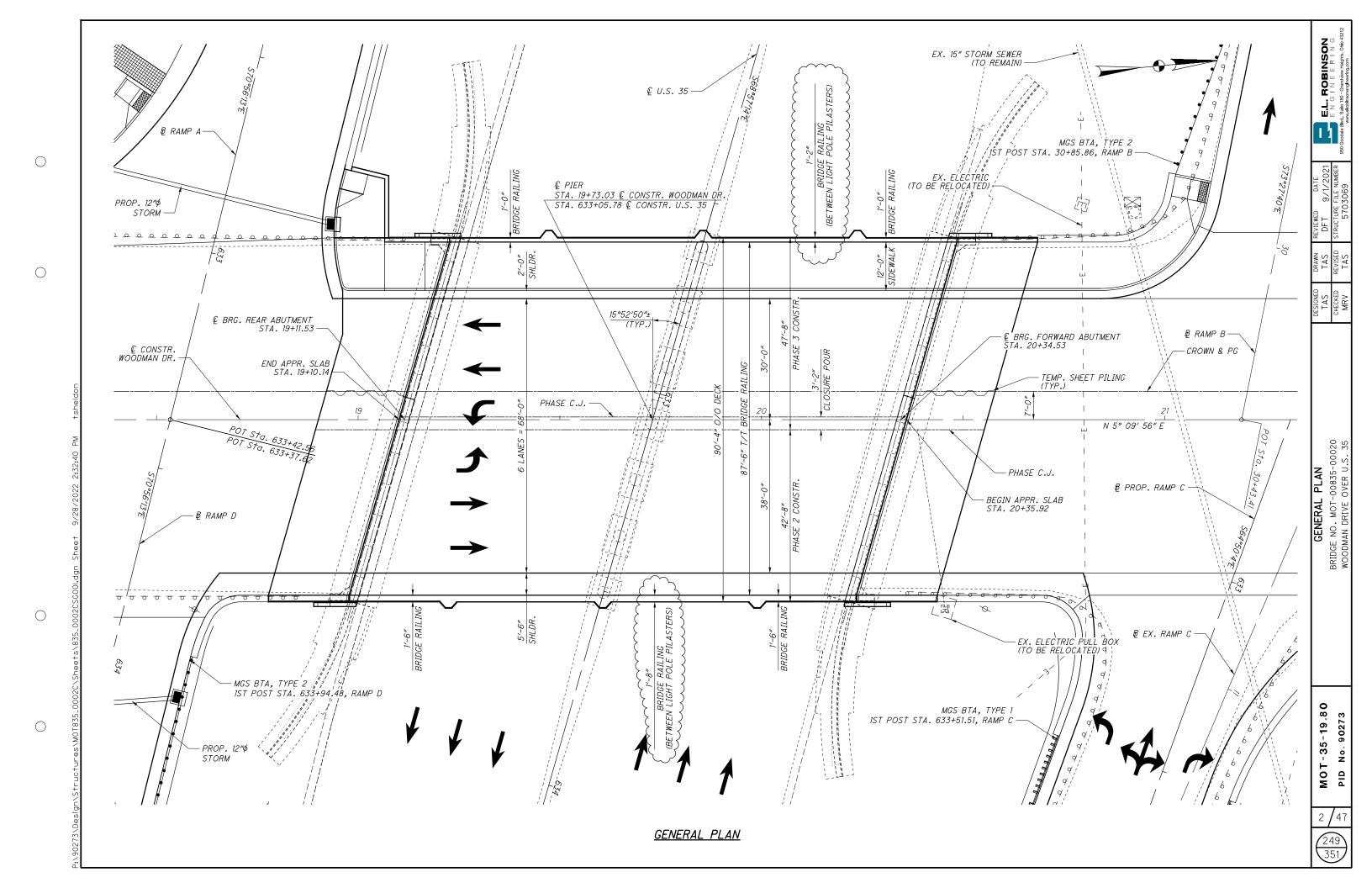
COORDINATES: LATITUDE 39° 44′ 44.44″ N LONGITUDE 84° 07' 14.55" W

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PLAN T-00835-E OVER U SITE NO. MOT

80 .35-19. MOT

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FORMLINER FOR AESTHETIC LETTERING SHALL BE MADE OF PLASTICIZED POLYVINYL CHLORIDE. THE MATERIAL SHALL HAVE SUFFICIENT FIRMNESS TO RESIST DEFORMATION FROM FRESHLY PLACED CONCRETE AND HAVE SUFFICIENT PLIABILITY TO PERMIT REMOVAL WITHOUT DAMAGE TO EARLY AGE CONCRETE.

FORMLINERS SHALL HAVE A SHORE A HARDNESS OF APPROXIMATELY 25.

LETTERING FORMLINER SHALL BE INSTALLED IN THE FORMS TO PROVIDE THE DIMENSIONAL RELATIONSHIP BETWEEN LETTERS AS SHOWN ON THE PLANS. FORMLINERS SHALL BE ATTACHED TO THE PRIMARY FORM ELEMENTS TO ENSURE THAT THE FORMLINERS WILL BE TRUE AND STRAIGHT IN THE VERTICAL POSITION.

AFTER FORMS ARE STRIPPED, IMPERFECTIONS IN THE FINISHED CONCRETE SHALL BE PATCHED WITH THE SAME MATERIALS AND MIX USED IN THE CONCRETE POUR TO RESTORE FULLY THE TEXTURED SURFACES TO THE SATISFACTION OF THE ENGINEER.

AESTHETIC LETTERING, INCLUDING ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PRODUCE THE FINISHED PRODUCT, SHALL BE PAID FOR UNDER ITEM 530: SPECIAL - STRUCTURES, AESTHETIC LETTERING.

<u> ITEM 607 - VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, </u> AS PER PLAN, AND ITEM 607 - VANDAL PROTECTION FENCE, 12' CURVED, COATED FABRIC, AS PER PLAN:

INSTALL FENCING FOR EACH CONSTRUCTION PHASE PRIOR TO OPENING THAT PHASE TO VEHICULAR AND/OR PEDESTRIAN TRAFFIC.

THE COLOR OF THE FENCE FABRIC, RAILS, POSTS, PLATES, TIE WIRES, AND ADDITIONAL VISUAL HARDWARE AND CAULK SHALL BE BLACK.

PROPOSED WORK:

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- 1. REMOVE EXISTING SUPERSTRUCTURE AND PORTIONS OF SUBSTRUCTURE.
- 2. RE-CONSTRUCT PORTIONS OF THE ABUTMENTS CONVERTING THEM TO SEMI-INTEGRAL.
- 3. CONSTRUCT NEW PORTIONS OF THE PIER.
- 4. INSTALL NEW BEAMS, BEARINGS, DECK, SIDEWALK, BARRIERS, AND VANDAL PROTECTION FENCE.
- 5. INSTALL LIGHTING HARDWARE IN STRUCTURE TO RECIEVE FUTURE LIGHT POLES AND ELECTRICAL EQUIPMENT.

- 5. CONSTRUCT NEW APPROACH SLABS.
- 6. FIELD PAINT STRUCTURAL STEEL BEAMS AND BARRIER LETTERING.
- 7. SEAL CONCRETE SURFACES.

ABBREVIATIONS:

KSF - KIPS PER SQ. FT. KSI - KIPS PER SQ. IN.

L.F. - LEFT FORWARD LT. - LEFT

ABUT. - ABUTMENT MAX. - MAXIMUM ADT - AVERAGE DAILY TRAFFIC ADTT - AVERAGE DAILY TRUCK MIN. - MINIMUM APPR. - APPROACH N - NORTH - BOTTOM - BASELINE NO. - NUMBER B.F. - BACK FACE BM - BENCHMARK BOT. OR BTM. - BOTTOM - BEARING BTA - BRIDGE TERMINAL ASSEMBLY CENTERLINE C/C - CENTER TO CENTER
C.I.P. - CAST-IN-PLACE C.J. - CONSTRUCTION JOINT - CLEAR CMS - CONSTRUCTION AND Q - FLOW RATE MATERIAL SPECIFICATIONS CONC. - CONCRETE CONSTR. - CONSTRUCTION CVN - CHARPY V-NOTCH DIA. - DIAMETER DIM. - DIMENSION DWG. - DRAWING E - EAST EB - EASTBOUND E.F. - EACH FACE EL. OR ELEV. - ELEVATION EOP - EDGE OF PAVEMENT EQ. - EQUAL - ESTIMATED EX. - EXISTING - EXPANSION F.A. - FORWARD ABUTMENT F/F - FACE TO FACE STR - STRAIGHT T - TOP F.F. - FRONT FACE - FOOT OR FEET - FOOTING - FORWARD FWS - FUTURE WEARING SURFACE HMWM - HIGH MOLECULAR WEIGHT METHACRYLATE HW - HIGH WATER IN. - INCH JT. - JOINT

MISC. - MISCELLANEOUS MSE - MECHANICALLY STABILIZED EARTH NB - NORTHBOUND N.P.C.P.P. - NON-PERFORATED CORRUGATED PLASTIC PIPE OHWM - ORDINARY HIGH WATER MARK O/O - OUT TO OUT P.C.P.P. - PERFORATED CORRUGATED PLASTIC PIPE P.E.J.F. - PREFORMED EXPANSION JOINT FILLER - PROPOSED PSF - POUNDS PER SQUARE FOOT P.V.I. - POINT OF VERTICAL *INTERSECTION* R - RADIUS

R.A. - REAR ABUTMENT

RCP - ROCK CHANNEL PROTECTION

REQD. - REQUIRED

R.F. - RIGHT FORWARD R.R. - RAILROAD RT. - RIGHT R/W - RIGHT OF WAY S - SOUTH
SB - SOUTHBOUND
SER. - SERIES
SHLDR - SHOULDER SPA. - SPACE OR SPACES STA. - STATION STD. - STANDARD T&B - TOP & BOTTOM TBR - TO BE REMOVED TEMP. - TEMPORARY T.O.S. OR T/S - TOP OF SLOPE T/T - TOE TO TOE TYP. - TYPICAL U.N.O. - UNLESS NOTED OTHERWISE VAR. - VARIES V - VELOCITY W - WEST WB - WESTBOUND WWR - WELDED WIRE REINFORCEMENT

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OF 2) -00020 J.S. 35

. NOTES (2 () MOT-00835-GENERAL
BRIDGE NO.
WOODMAN D

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	ADE BY: TAS KED BY: MGB		9/8/2021 9/9/2021	ESTIMATED QUANTITIES				STRU	CTURAL FILE NUMBER: 57
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPER.	GEN.	REFERENCE SHEET NO
202	11203	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	3, 8, 9 AND 19 OF
202	22900	356		APPROACH SLAB REMOVED				356	.,.,
202	23500	356		WEARING COURSE REMOVED				356	
507	11100	1.1110		COSSERDANC AND SVOLVATION DOLOTHO				1.1110	
503	11100	LUMP		COFFERDAMS AND EXCAVATION BRACING				LUMP	
503	21300	LUMP		UNCLASSIFIED EXCAVATION				LUMP	
509	10000	11,646	LB	EPOXY COATED REINFORCING STEEL	10,850	796			
509	40000	110,652	LB	REINFORCING STEEL, MISC.: GALVANIZED REINFORCING STEEL			110,652		3 OF 47
509	40000	6,862	LB	REINFORCING STEEL, MISC.: GALVANIZED REINFORCING STEEL, AS PER PLAN			6,178	684	3 AND 39 OF 4
509	20001	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN				100	3 OF 47
509	30021	2,494	FT	NO. 4 GFRP DEFORMED BARS, AS PER PLAN			2,494		41 OF 47
510	10000	56	FACII	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		56			
510	10000	56	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		56			
511	33500	2		SEMI-INTEGRAL DIAPHRAGM GUIDE	2				
511	34446	386	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			386		
511	34451	43		CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN			43		40 AND 42 OF
511	41010	3		CLASS QCI CONCRETE, PIER ABOVE FOOTINGS		3			
511	44110	82	CY	CLASS QCI CONCRETE, ABUTMENT NOT INCLUDING FOOTING	82				
511	51513	76		CLASS QC2 CONCRETÉ WITH QC/QA, SIDEWALK, AS PER PLAN			76		38 OF 47
	10101	. 70.	014		504	405	070		7.05.47
512	10101	1,364		SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	561	125	678		3 OF 47
512	33000	6		TYPE 2 WATERPROOFING	6				
512	10600	27	FT	CONCRETE REPAIR BY EPOXY INJECTION	27				
513	10240	292,718	LB	STRUCTURAL STEEL MEMBERS, LEVEL 2			292,718		
513	20000	5,252		WELDED STUD SHEAR CONNECTORS			5,252		
		-,					1,212		
514	00060	17,500	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			17,500		
514	00066	17,500	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			17,500		
F10	17000		CE	LYCH DDSSCODUSD SVDANSTON JOHN STUTED				-	
516	13200	5		1/2" PREFORMED EXPANSION JOINT FILLER				5	
516	13600	91		1" PREFORMED EXPANSION JOINT FILLER				91	
516	13900	161		2" PREFORMED EXPANSION JOINT FILLER	000			161	
516	14020	222		SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	222	10			01.05.47
516 516	44001 44001	10		ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"x17"x1.6741" WITH VARYING LOAD PLATE, BEVELED) ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"x17"x1.6741" WITH VARYING LOAD PLATE AND HP ASSEMBLY, BEVELED)		10			21 OF 47 22 OF 47
		2		ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"X17"X1.6741" WITH VARTING LOAD PLATE AND HP ASSEMBLY, BEVELED) ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"X17"X1.6741" WITH DOUBLE LOAD PLATES, BEVELED)		2			
516 516	44001 44101	26		ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (11"X11"X1.0141" WITH DOUBLE LOAD PLATES, BEVELED) ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE). AS PER PLAN (11"X14"X2.0488" WITH LOAD PLATE AND HP ASSEMBLY. BEVELED)	26	/			23 OF 47 20 OF 47
510	44101	20	EAUT	ELASTOMERIC DEARING WITH INTERNAL LAMINATES AND LOAD FLATE (NEOFRENE), AS FER FLAN (IIXI4 X2.0400 WITH LOAD FLATE AND HE ASSEMBLY, DEVELED)	20				20 OF 41
517	75123	147	FT	RAILING (CONCRETE PARAPET WITH TWIN STEEL TUBE RAILING AND VANDAL PROTECTION FENCE), AS PER PLAN				147	39 OF 47
518	21200	105	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC				105	
PECIAL	51960000	LUMP		PATCHING CONCRETE STRUCTURE (ABUTMENT PATCHING)	LUMP				3 OF 47
LUIAL	31300000	LUMI		FAICHING CONCRETE STRUCTURE (ABOTMENT FAICHING)	LOIMI				J 0F 41
526	15010	412	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=13")				412	
526	90020	104	SY	TYPE B INSTALLATION				104	
TCTA!	F7000000	LUMD		CTRUCTURES (ACCTUETTO LETTERING)			LUMB		4 4 4 4 7 7 7 7
ECIAL	53000200	LUMP		STRUCTURES (AESTHETIC LETTERING)			LUMP		4 AND 43 OF 4
607	39901	123	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN				123	4 AND 42 OF 4
507	39931	124		VANDAL PROTECTION FENCE, 12' CURVED, COATED FABRIC, AS PER PLAN				124	4 OF 47
	39994	245		TEMPORARY VANDAL FENCE, TYPE B				245	
307		_							
07	53020	10	SF	DETECTABLE WARNING				10	

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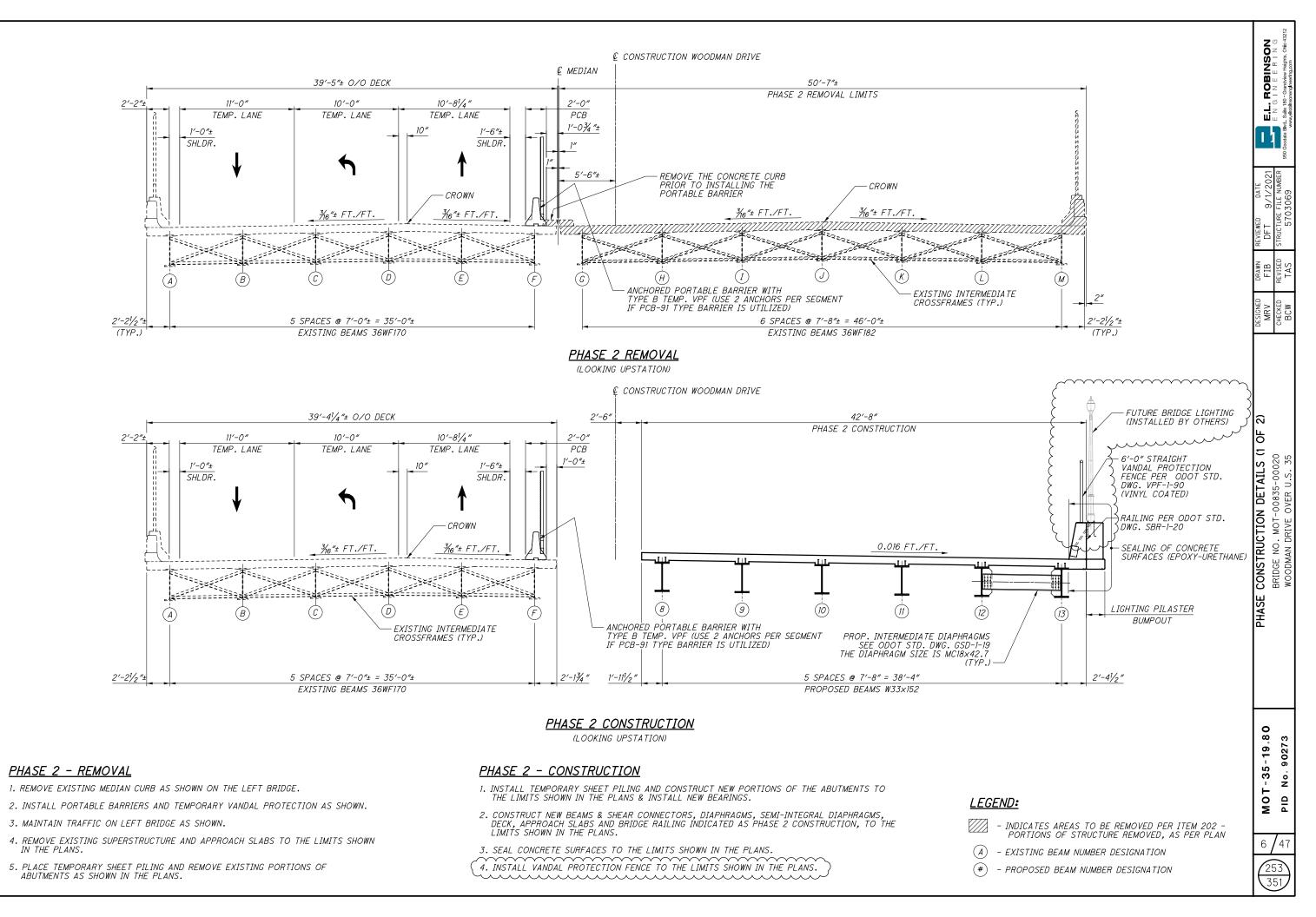
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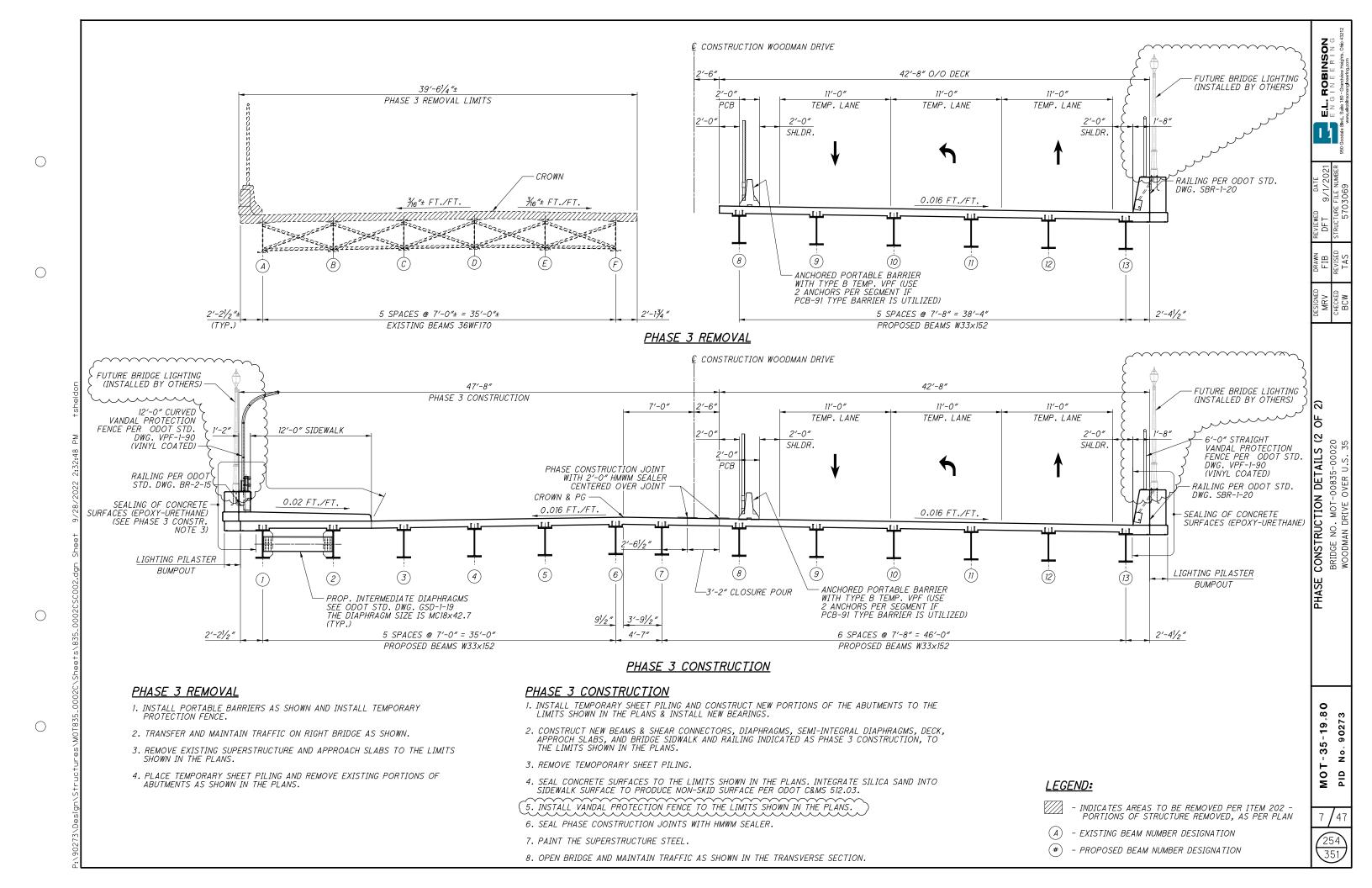
ESTIMATED QUANTITIES
BRIDGE NO. MOT-00835-00020
WOODMAN DRIVE OVER U.S. 35

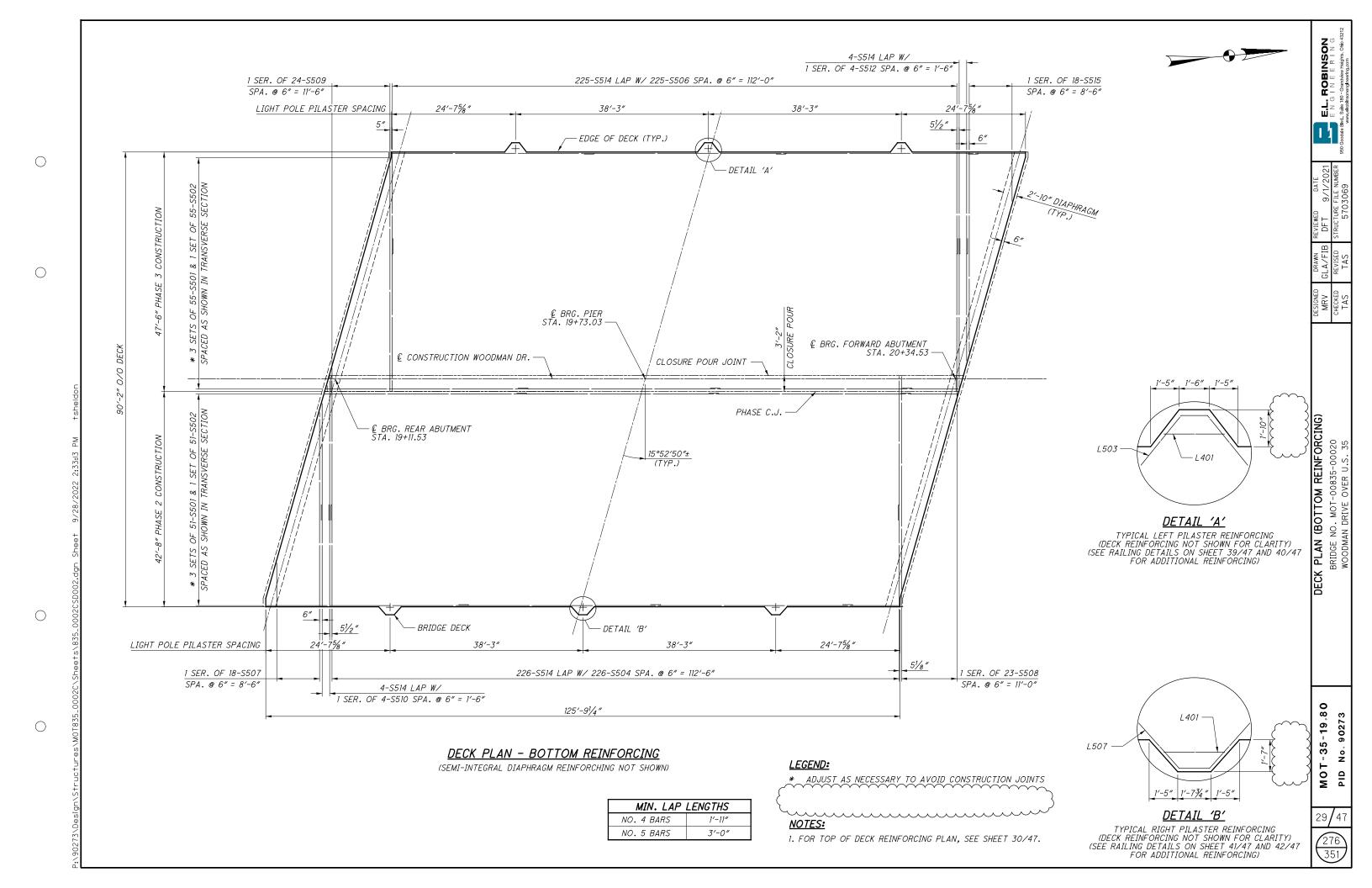
E.L. ROBINSON ENGINEERING

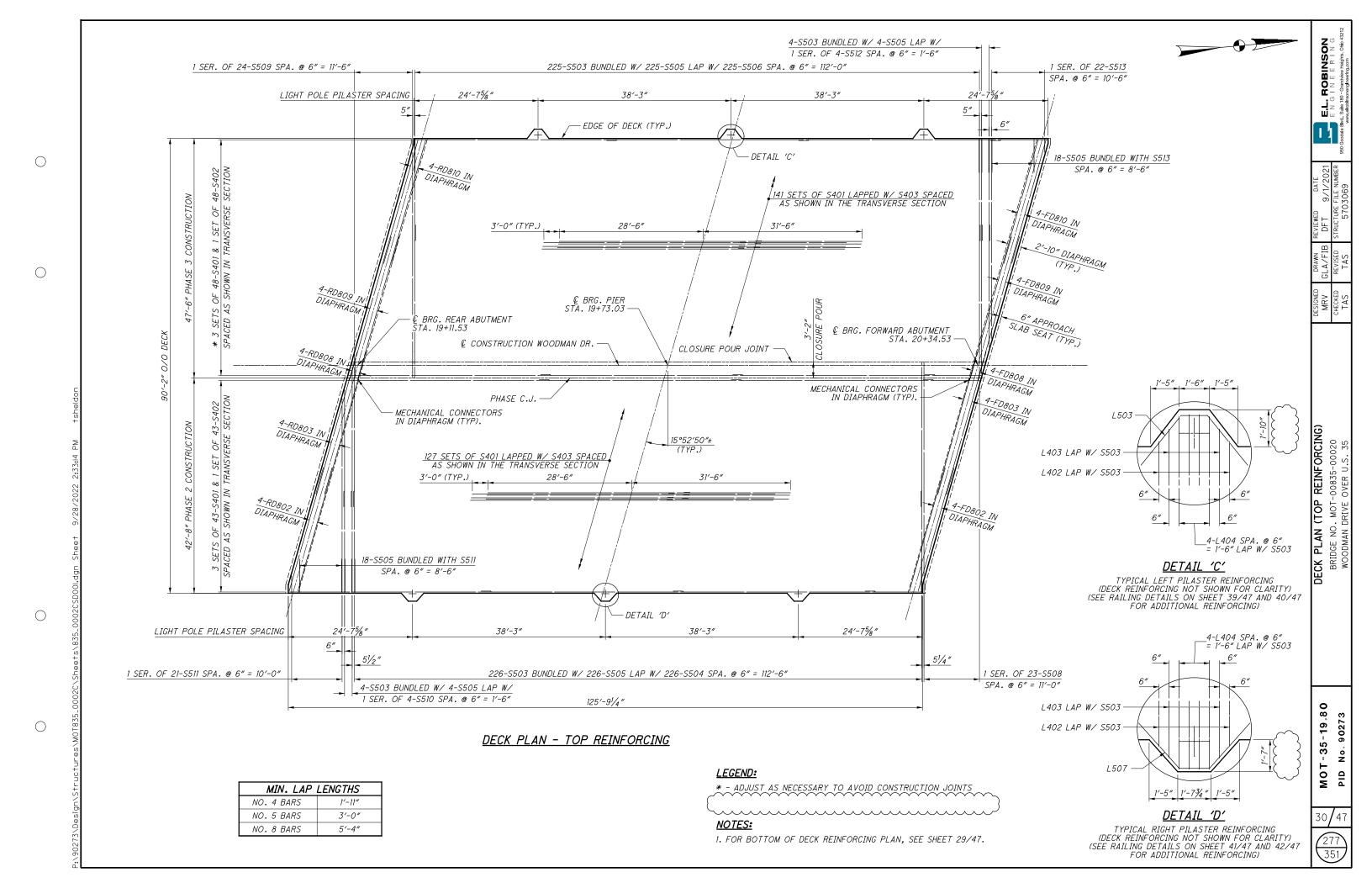
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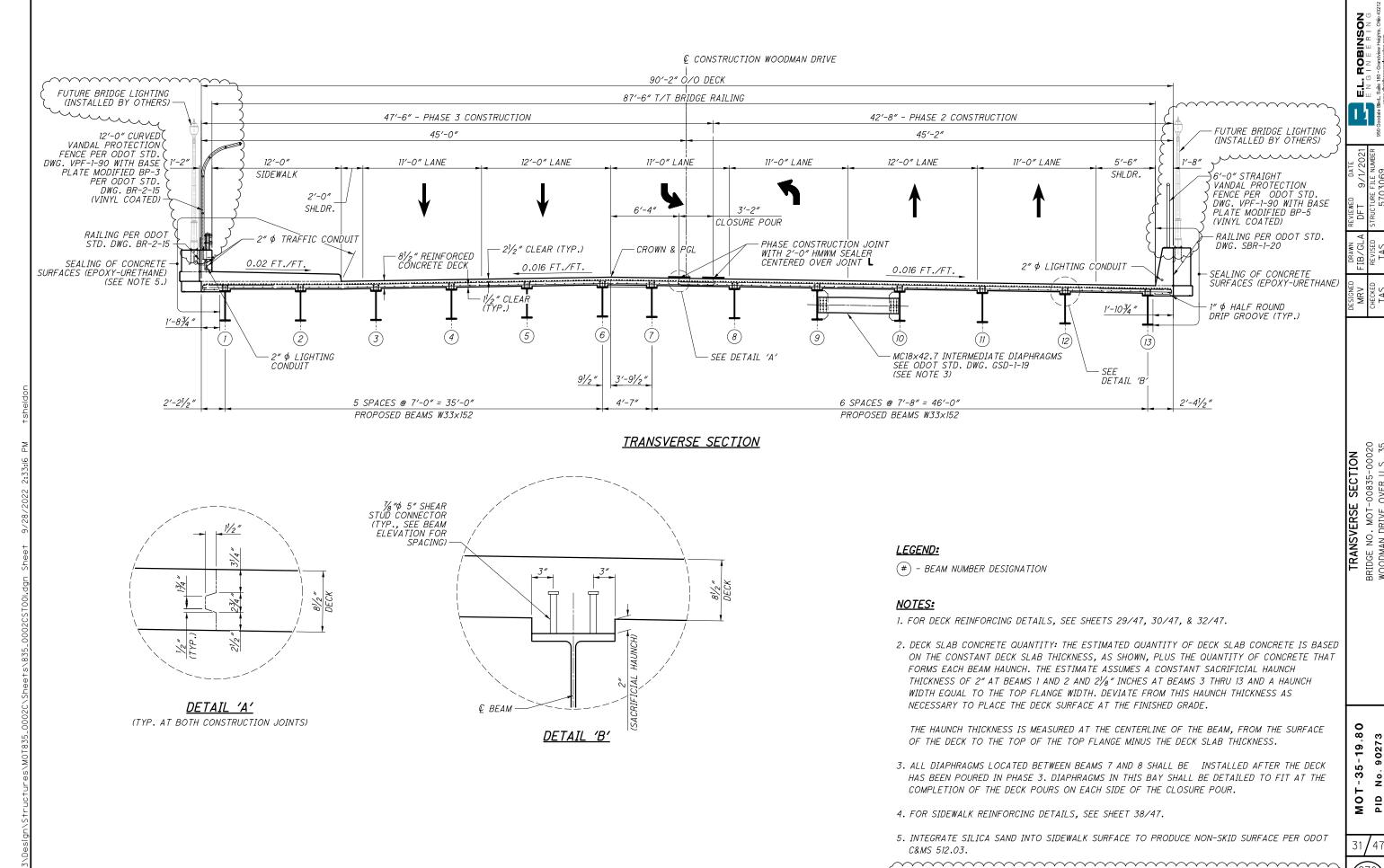












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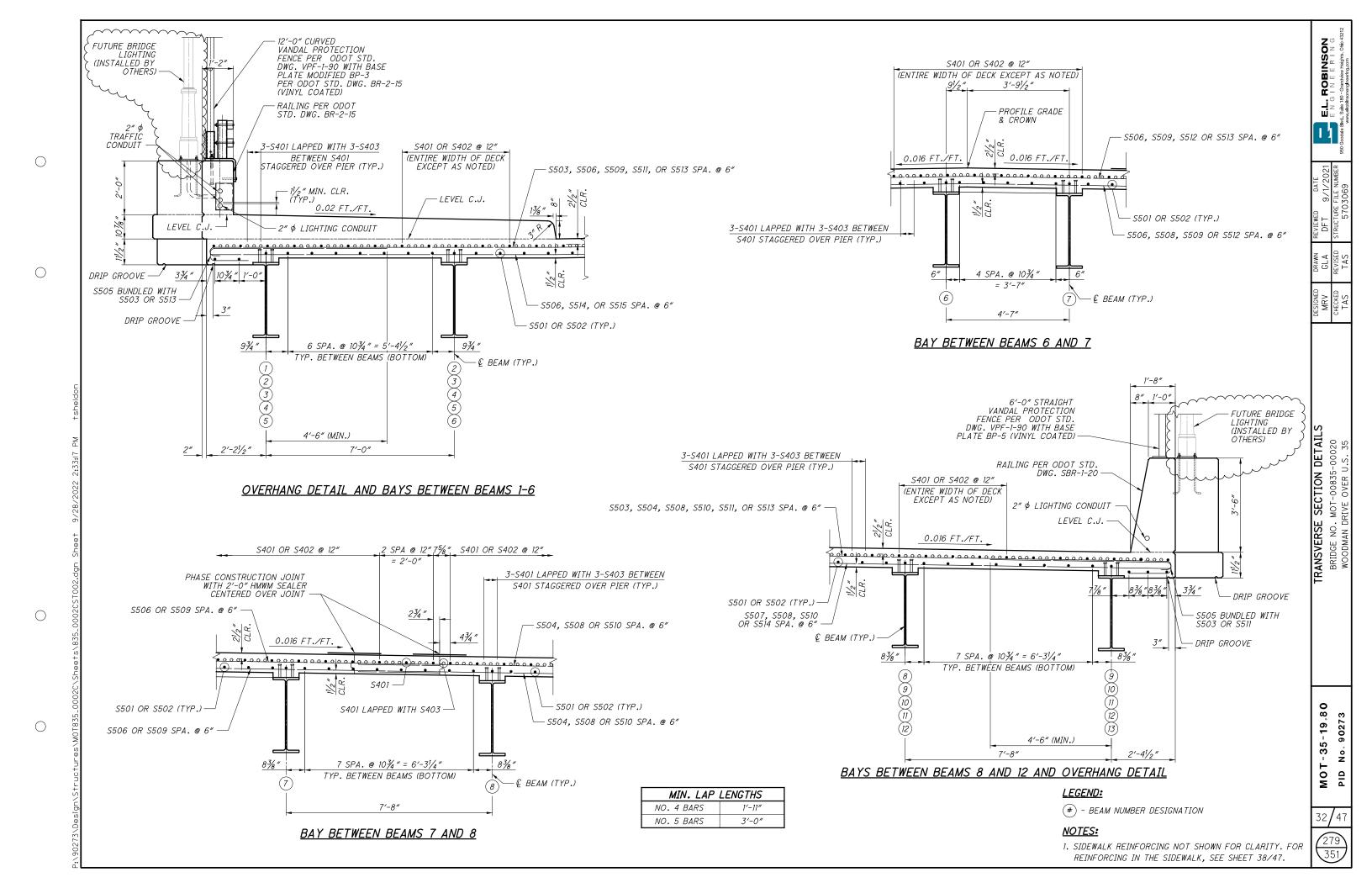
6. CONTRACTOR TO INSTALL ACCESS OPENINGS AT LOCATIONS OF THE FUTURE LIGHT POLES PER

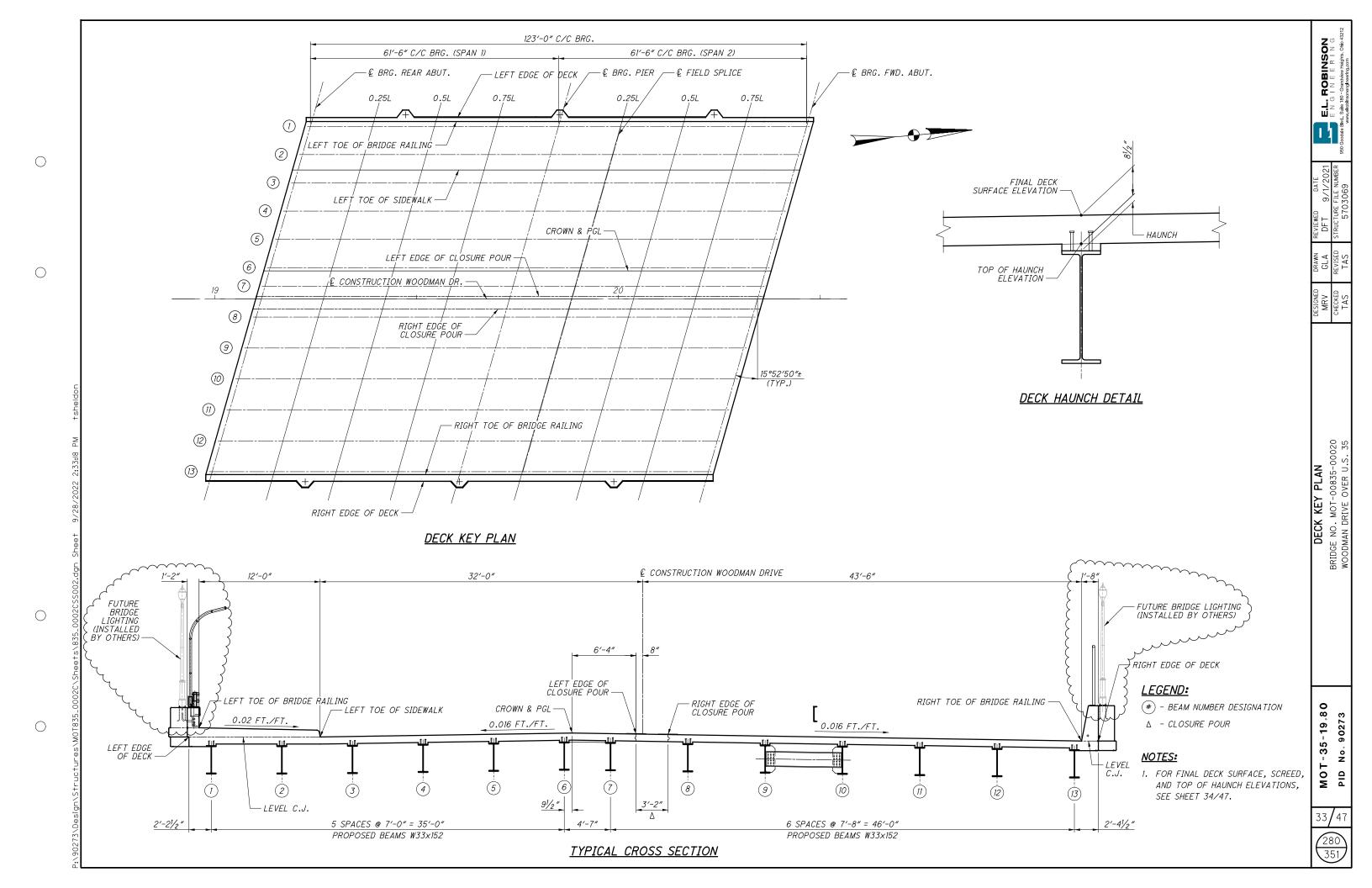
ODOT STD. DWG. VPF-1-90.

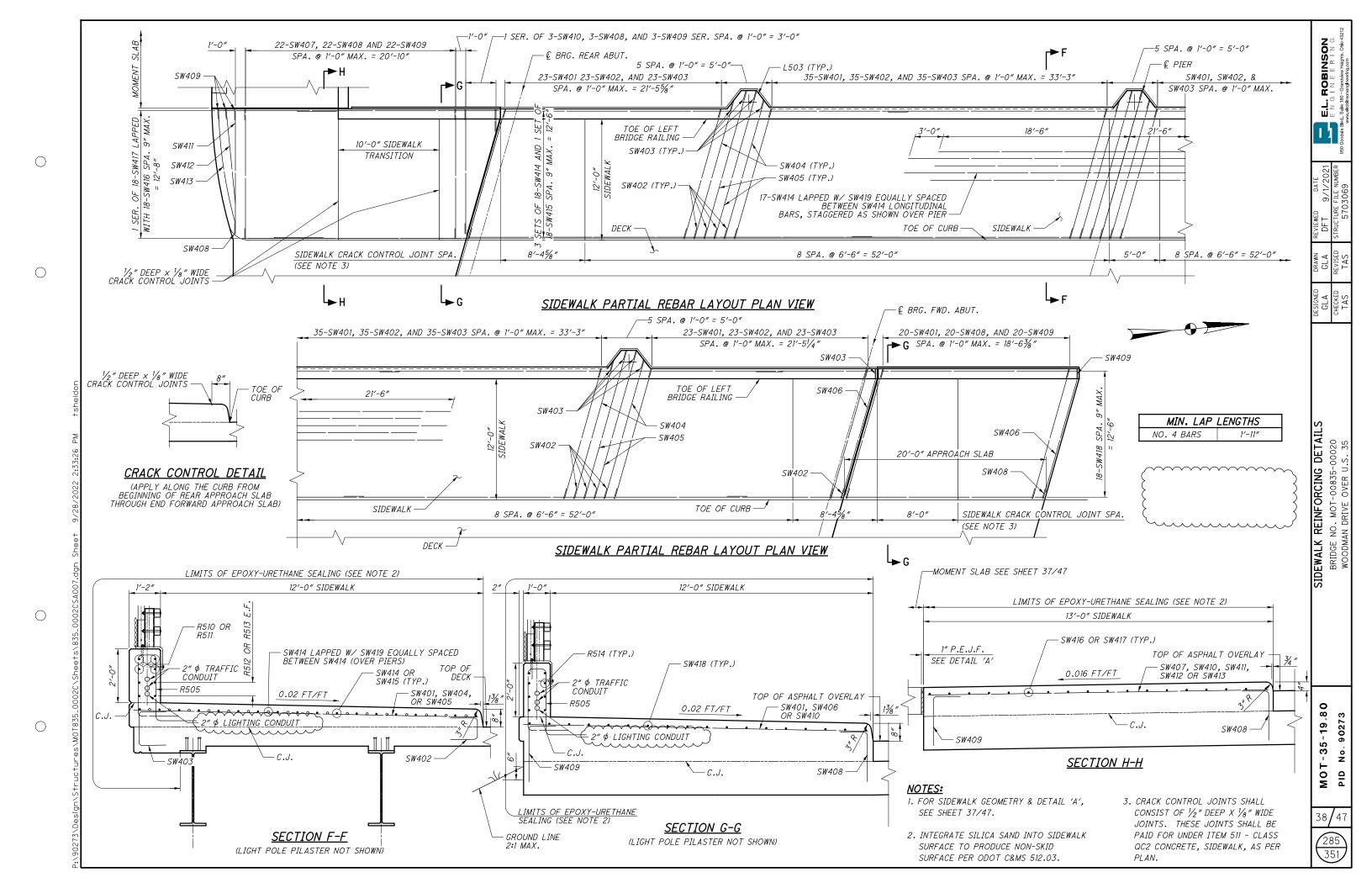
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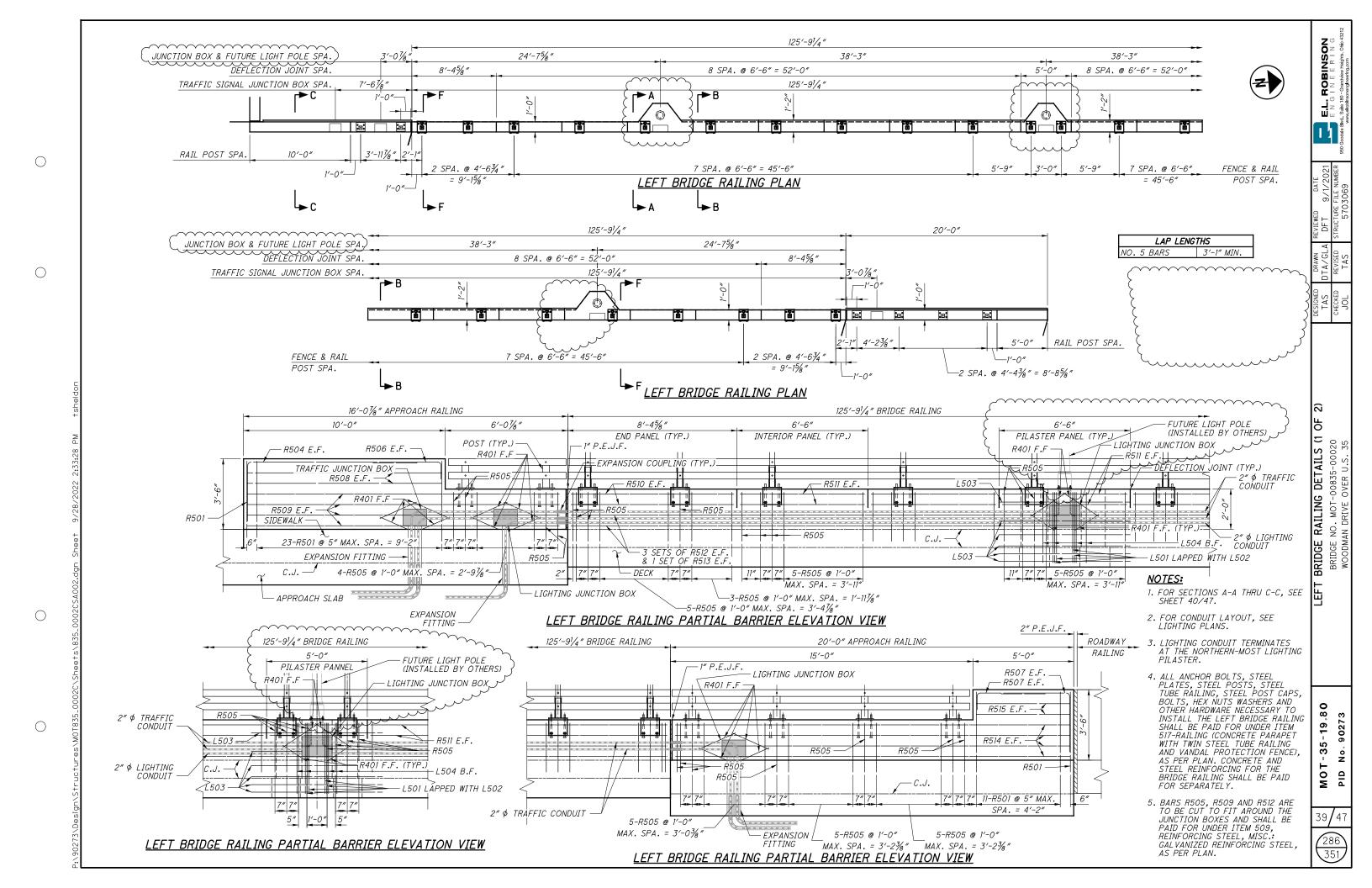
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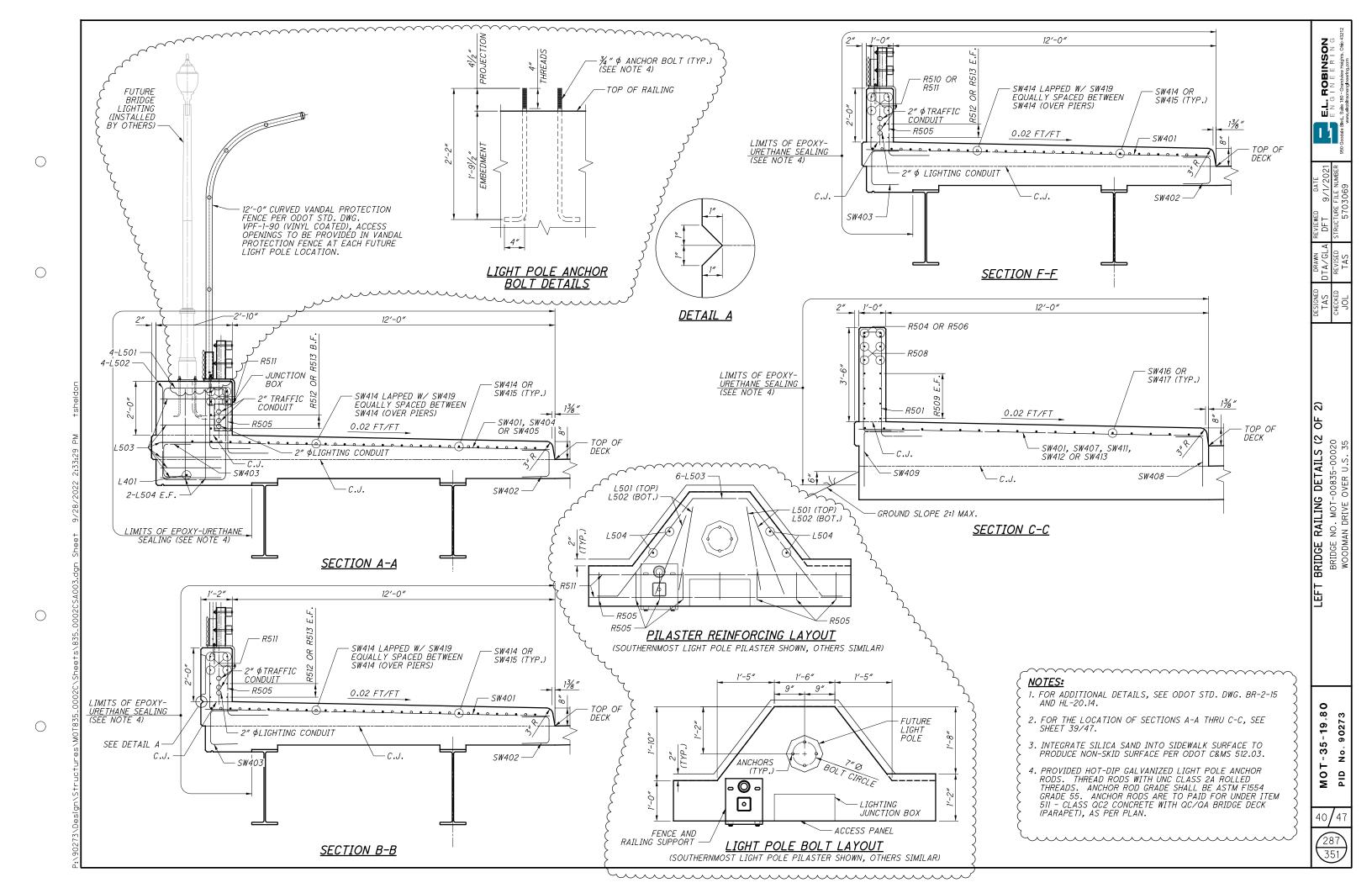
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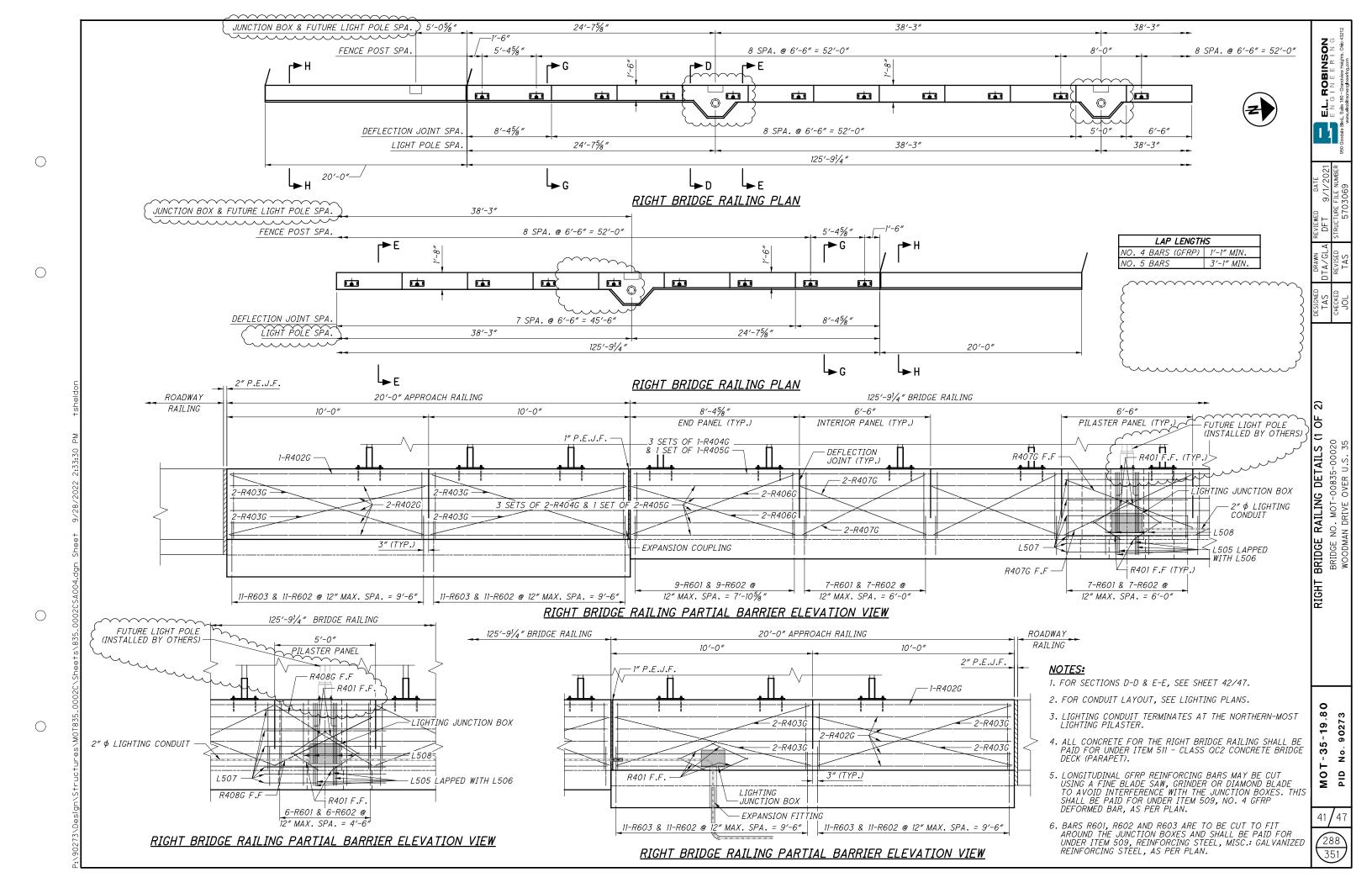


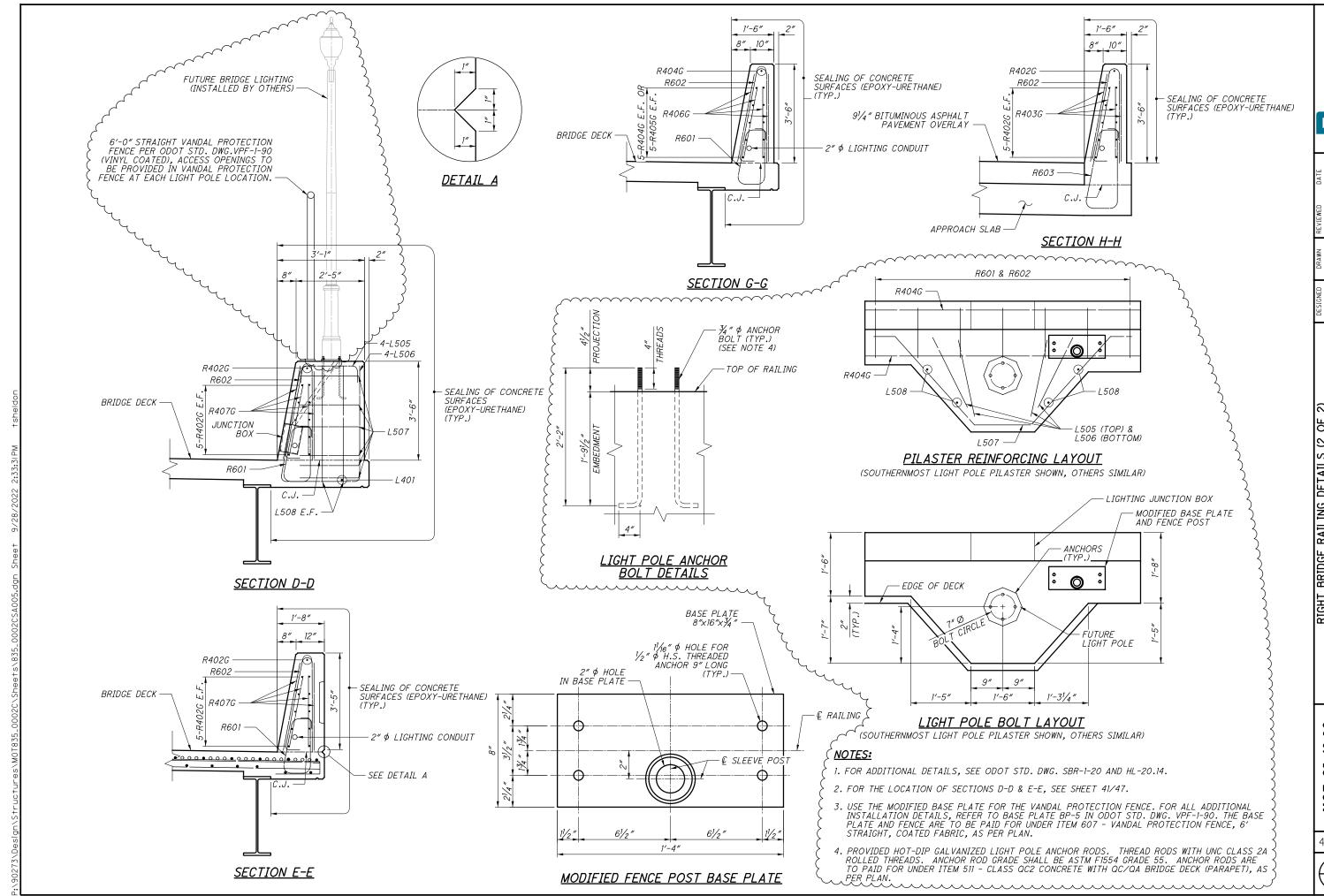












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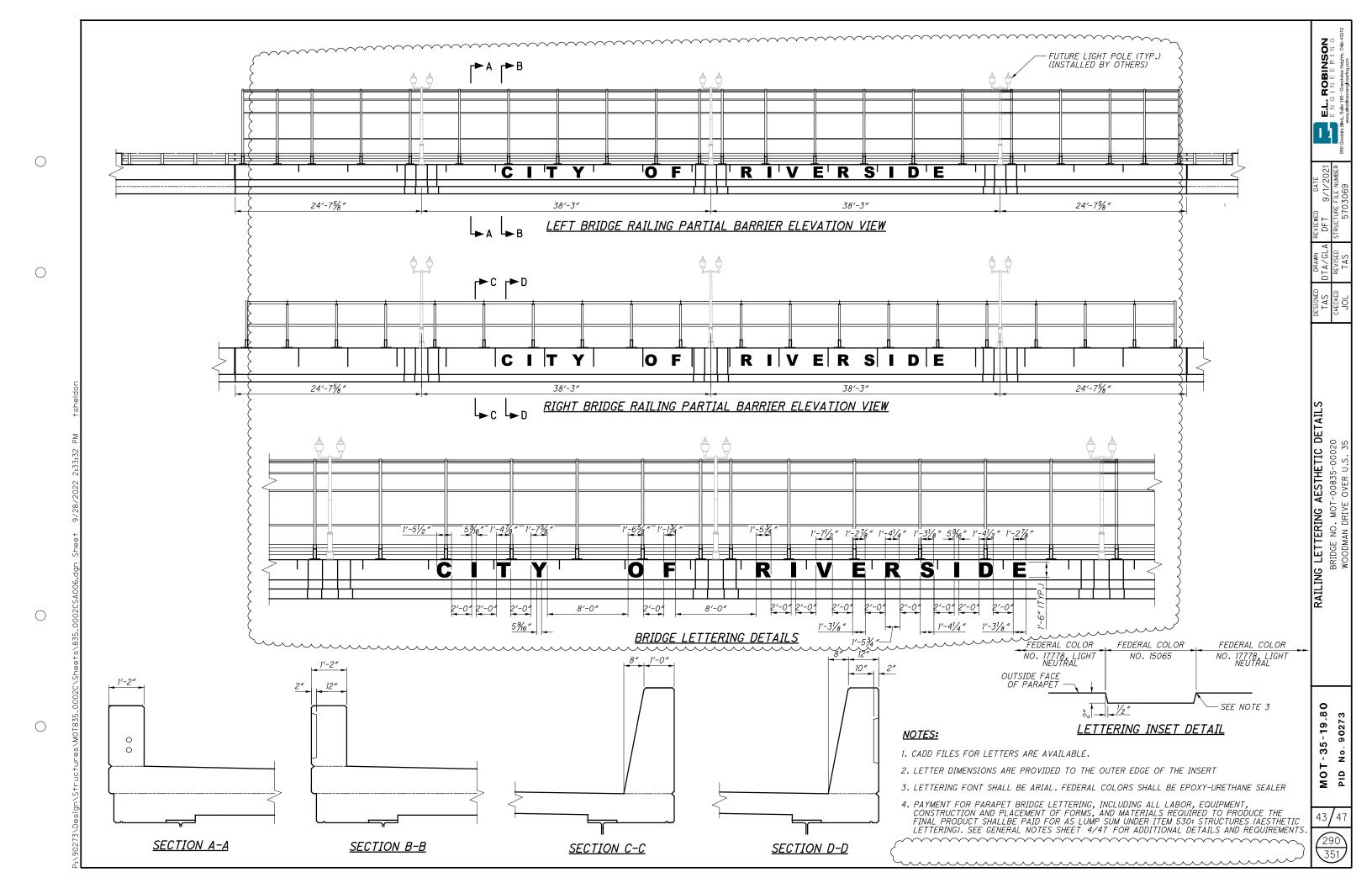
5 2 G DETAILS (3 -00835-00020 OVER U.S. 35

BRIDGE RAILING I
BRIDGE NO. MOT-00
WOODMAN DRIVE OV

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MARK	NUMBER	LENGTH	WEIGHT	TYPE	DIMENSIONS									
MAIN	TOTAL	LENOTTI	WE10111	7	Α	В	С	D	Ε	R	INC			
					SUPER.	STRUCT	URE							
5401	541	40'-0"	14456	STR			 							
5402	91	11'-3"	684	STR										
S403	268	21'-11"	3924	STR										
0 700	200	2, ,,	0027	10771										
S501	318	40'-0"	13267	STR										
S502	106	14'-6"	1603	STR										
S503	459	20′-7″	9854	16	20'-0"									
S504	452	28'-6"	13436	STR										
S505	495	8'-8"	4474	2	6'-9"	7"	1'-7"							
S506	450	30'-4"	14237	STR	-									
<i>S507</i>	1 SER. OF 18	6'-7" TO 38'-5"	422	STR							1′-10 ½″			
S508	2 SER. OF 23	3'-11" TO 42'-3"	1107	STR							1′-8 ⁷ /8″			
S509	2 SER. OF 24	4'-8" TO 44'-9"	1237	STR							1′-8 ⁷ /8″			
S510	2 SER. OF 4	23'-2" TO 28'-5"	215	STR							1'-9"			
S511	1 SER. OF 21	3′-10″ TO 38′-11″	468	16	3'-3" TO 38'-4"						1'-9"			
S512	2 SER. OF 4	24'-3" TO 29'-6"	224	STR							1'-9"			
S513	1 SER. OF 22	3'-2" TO 40'-1"	496	16	2'-7" TO 39'-6"						1'-9 1/6"			
S514	459	20'-0"	9575	STR										
S515	1 SER. OF 18	9'-7" TO 39'-5"	460	STR							1'-9"			

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	NUMBER			lu				DIMENS	TONS		
MARK	TOTAL	LENGTH	WEIGHT	TYPE				DIMENS	IONS		
	TOTAL			7	Α	В	С	D	Ε	R	INC
					PIL	ASTER					
L401	6	2'-11"	12	STR							
L402	12	2'-3"	18	STR							
L403	12	2'-10"	23	STR							
L404	24	3′-5″	55	STR							
L501	12	3'-4"	42	2	7″	2'-5"	7"				
L502	12	9'-0"	113	2	3′-5″	2'-5"	3′-5″				
L503	18	8'-3"	155	21	1'-4"	1'-10"	6"	2'-5"			
L504	12	3′-5″	43	STR							
L505	12	2'-9"	34	2	7"	1'-10"	7"				
L506	12	10′-6″	131	9	8"	4'-0"	2'-9"	4'-0"			
L507	18	7′-9″	145	21	1'-4"	1′-10″	6"	2'-1"			
L508	12	4'-1"	51	SIR	2000						
· · · · ·	* * * * *	ÜBTÖTAL	822		509 - RE	ĬNFORCIN					ING STEEL

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	NUMBER			TOT4/	Li i				DIMENS	SIONS		
MARK	TOTAL	LENGTH	WEIGHT	TOTAL LENGTH	TYPE			I				
						Α	В	С	D	Ε	R	INC
				RAILIN	IG (GF	RP REIN	<i>FORCING</i>	BARS)				
R402G	22	19'-8"	-	432'-8"	STR							
R403G	16	10'-0"	-	160'-0"	STR							
R404G	33	40'-0"	-	1320′-0″	STR							
R405G	11	8′-9″	-	96′-3″	STR							
R406G	8	8′-7″	-	68′-8″	STR							
R407G	60	6′-9″	-	405′-0″	STR							
R408G	2	<i>5′-7″</i>	-	11'-2"	STR							
		S	UBTOTAL	2493′-9″	ITEM .	509 - NO	. 4 GFRP I	DEFORMED	BARS, AS	S PER PLA	4 <i>N</i>	
						RAILIN	G					
R401	40	2'-2"	58		STR							
R501	62	10′-10″	701		30	1'-6"	8"	3'-11"	3′-9″			
R502	NOT USED											
R503	NOT USED											
R504	2	11'-2"	23		1	2'-11"	8′-5″					
R506	2	7′-11″	17		1	2'-11"	5′-2″					
R507	4	6′-8″	28		1	2'-11"	3′-11″					
R508	4	9′-8″	40		STR							
R510	8	8'-0"	67		STR							
R511	64	6'-2"	412		STR							
R513	4	14'-9"	62		STR							
R514	8	19′-7″	163		STR							
R515	4	4′-8″	19		STR							
R516	7	14′-8″	107		STR							
R517	7	15′-2″	111		STR							
R518	14	1'-8"	24		19	10"	3"	10"				
R519	7	8′-7″	63		STR							
R520	7	9'-1"	66		STR							
	S	SUBTOTAL	1961	ITEM 509 -	REINF			C.: GALVA	NIZED REI	NFORCING	G STEEL	
						RAILIN	G					
R505	190	7′-10″	1552		30	1′-6″	8"	2'-5"	2'-3"			
R509	8	15′-8″	131		STR							
R512	12	40'-0"	501		STR							
R601	136	7′-4″	1498		38	2'-3"						
R602	180	7′-0″	1893		22	6"	3′-3″	3'-3"			2"	
R603	44	9'-0"	595		38	3'-0"						
	S	UBTOTAL	6170	ITEM 509 -	REINF	ORCING S	TEEL. MIS	C .: GAL VA	NIZED REI	NFORCING	S STEEL . A	S PER PLAN

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REINFORCING DETAILS
BRIDGE NO. MOT-00835-00020
WOODMAN DRIVE OVER U.S. 35

MOT-35-19.80 PID No. 90273

