

1168 North Main Street | Bowling Green, Ohio 43402 419.352.7537 | WWW.KLEINFELDER.COM

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	DETOUR	MAP (NOT 1	TO SCALE)							
			STAN	DARD CONSTRU	UCTION L	ORAWINGS		 and the second second second	LEMENTAL FICATIONS	SPECIAL PROVISIONS
								800	1/20/23	Asbestos survey
	BP-3.1	1/19/24		DS-1-92	7/15/22			 832	7/15/22	5/8/23
				PSBD-2-07	7/20/18	MT-101.60	4/21/23			
ENGINEERS SEAL:				SICD-1-96	7/18/14		4/2023	 -		
MICHAEL OF MICHAEL OF PATRICK SASSO E-65605 ONAL SIGNED: MICHAEL OF ONAL SIGNED: 5-22-2023				TST-1-99	1/15/21					
INTE OF OF										
MICHAEL										
PATRICK	DM-1.1	7/17/20								
20 E-65605	DM-4.4	1/15/16								
THE CONSTERIOR OF THE										
ONAL Emin	MGS-1.1	7/16/21								
mon	MGS-2.1	1/19/18								
SIGNED: // Wahan T. DAGLA	-MGS-3.1	1/19/18								
DATE: <u>5-22-2023</u>										

# **PUT-CR 0-14.741**

(COUNTY ROAD O)

BRIDGE REPLACEMENT **OVER CRANBERRY RUN** 

**RILEY TOWNSHIP** 

PUTNAM COUNTY

INDEX OF SHEETS:

1
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5
6-8
9-18
<i>19-22</i>



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<section-header>         PROJECT DESCRIPTION         REPLACEMENT OF AN EXISTING SINGLE SPAN BRIDGE WITH 252' OF APPROACH WORK.         PROJECT EARTH DISTURBED SINGLE SPAN BRIDGE WITH 252' OF APPROACH WORK.         PROJECT EARTH DISTURBED AREA:       0.45 ACRES         ESTIMATED CONTRACTOR EARTH DISTURBED AREA:       0.22 ACRES         NOTICE OF INTENT EARTH DISTURBED AREA:       0.22 ACRES         NOTICE OF INTENT EARTH DISTURBED AREA:       NOT REQUIRED         DECAS SPECIFICATIONS       NOT REQUIRED         DECAS 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.         APPROVED       Minedation         APPROVED       MINEDATION FUNCTIONERST, MINEDATION, INCLUDING SUPPLEMENT, PE, PS         APPROVED       MINEDATION, PROVEMENT, PE, PS         APPROVED       MINEDATION, PUTNAM COUNTY COMMISSIONER         APPROVED       MINEDATION COUNTY COMMISSIONER         APPROVED       MINEDATION COUNTY COMMISSIONER         APPROVED       MINEDATION COUNTY COMMISSIONER         APPROVED       MINEDATION         APPROVED       MINEDATION         APPROVED       MINEDATION         APPROVED       MINEDATION         APPROVED       MINEDATION   </section-header>	CONSTRUCTION PROJECT NO. FEDERAL PROJECT NO.	117598 E230251
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.22 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: NOT REQUIRED <b>2023 SPECIFICATIONS</b> 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. APPROVED MICHAEL LI LENIFART, PE, PS APPROVED TO THE STATE OF DATE 3-7-24 PUTNAM COUNTY COMMISSIONER APPROVED MICHAEL LI LENIFART, PE, PS	- PID	759
OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.	ON PROJECT NO.	
DATE 3-0-29 PUTNAM COUNTY ENGINEER, MICHAEL/L LENHART, PE, PS APPROVED DATE 3-7-24 PUTNAM COUNTY COMMISSIONER APPROVED Juncent Tchuselle	Ĕ	
APPROVED Joh Clakkle DATE 3/9/24 PUTNAM COUNTY COMMISSIONER	RAILROAD INVOLVEMENT CONSTRUC	NONE
ENTAL SPECIAL ATIONS PROVISIONS 1/20/23 Asbestos survey		-14.741
7/15/22       5/8/23         UNDERGROUND UTILITIES         Contact Two Working Days         Before You Dig         DHI0811. 8-1-1, or 1-800-362-2764         (Non-members must be called directly)		-) PUT-CR 0-

#### A VARIES: 7.7'± @ STA. 9+00.00 TO 10.00' @ STA. 9+50.00 10.00' @ STA. 11+25.00 TO 8.6'± @ STA. 12+00.00

### & CONST. CR O VARIES R/W CR O VARIES 3'-0" MIN. 14'-0″ 10′-0″ 2'-0" 10'-0″

6″

4″

(8)

ROUNDING

#### 9 10 0.06 0.08 MAY ~ (5) 6 (7) (4)(1)(2) (3)(11)½″/FT. MINIMUM — 1″/FT. DESIRABLE -½″/FT. MINIMUM 1″/FT. DESIRABLE 4'-0"

A

0.016

## NORMAL SECTION COUNTY ROAD O

APPLIES: STA. 9+00.00 TO STA. 9+77.00 = 77+00.00 LIN. FT STA. 10+25.00 TO STA. 12+00.00 = <u>175+00.00 LIN. FT</u> TOTAL = 252.00 LIN. FT

14'-0″

В

0.016

2'-0"

0.06

2

(7)

0.08

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# LEGEND

	ITEM 441	11/4" ASPHALT CONCRETE SURFACE
2	ITEM 407	TACK COAT
3	ITEM 441	$1\frac{3}{4}$ " ASPHALT CONCRETE INTERMED
4	ITEM 301	4" ASPHALT CONCRETE BASE, PG64
5	ITEM 304	6" AGGREGATE BASE
6	ITEM 204	SUBGRADE COMPACTION
7	ITEM 411	6" STABILIZED CRUSHED AGGREGAT
8	ITEM 606	GUARDRAIL, TYPE MGS
9	ITEM 659	SEEDING AND MULCHING (SEE GENER
10	ITEM 659	COMMERCIAL FERTILIZER
(1)	ITEM 605	AGGREGATE DRAIN

	AGGREGATE DRAIN LOCATIONS										
STATION	SIDE	LENGTH									
9+25	RIGHT	10'									
9+50	LEFT	9′									
10+50	LEFT	181									
	TOTAL =	37'									

4'-0"

ROUNDING

MEET EXISTING-GROUND

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3'-0"

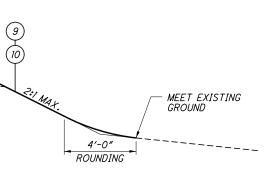
8

(1)

4'-0"

ROUNDING

B VARIES: 9.1'± @ STA. 9+00.00 TO 10.00' @ STA. 9+50.00 10.00' @ STA. 11+25.00 TO 8.5'± @ STA. 12+00.00



COURSE, TYPE 1, (449), PG64-22

DIATE COURSE, TYPE 2, (449) 64-22

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ERAL NOTE)

-14.741 0 - C R ΡUΤ

2 22

#### ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS-SECTIONS EVEN THOUGH OTHER-WISE SHOWN.

#### UTILITIES

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

DAVID SPURGEON III BRIGHTSPEED 122 S. ELIZABETH LIMA, OH 45801 567-242-2882 David.L.Spurgeon@Brightspeed.com (FIELD CONTACT IS ERIC FLORY: 419-576-7089)

CHRIS HARDY DIRECTOR OF TECHNOLOGY, TELEPHONE SERVICE COMPANY A HANSON COMMUNICATIONS COMPANY WAPAKONETA, OH 45895 419-739-2560 chris.hardy@telserco.com

DOUG JOHANNS PAULDING PUTNAM ELECTRIC COOPERATIVE 401 MCDONALD PIKE PAULDING, OH 45879 419-439-3304 djohanns@ppec.coop

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.

#### WORK LIMITS

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

#### CLEARING AND GRUBBING

ALL TREES, STUMPS, AND BRUSH WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED AS REQUIRED UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING.

#### SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. TOP SOIL AND COMMERCIAL FERTILIZER SHALL BE APPLIED PER 659 AS NEEDED AND AS DIRECTED BY THE ENGINEER.

#### **EROSION CONTROL**

THE FOLLOWING ITEMS HAVE BEEN INCLUDED:832, STORM WATER POLLUTION PREVENTION PLANLUMP SUM832, STORM WATER POLLUTION PREVENTION INSPECTIONSLUMP832, STORM WATER POLLUTION PREVENTION SOFTWARELUMP832, EROSION CONTROL\$5,000THE EROSION CONTROL (\$5,000) HAS BEEN CARRIED TO THE BIDPROPOSAL.

#### FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUC-TION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE RIGHT OF WAY BY ITEM 611 CONDUIT, TYPE B, OF THE SAME SIZE CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 611 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTER-CEPTED BY 611, TYPE E CONDUIT, AND CARRIED IN A LONG-ITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

EROSION CONTROL PADS AND ANIMAL GUARDS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE.

#### ITEM 614 - MAINTAINING TRAFFIC

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48"x30" "ROAD CLOSED" SIGNS, SIGN SUPPORTS, BARRICADES, GATES, AND LIGHTS, AS DETAILED ON SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROAD IS CLOSED TO TRAFFIC:

AT EACH END OF THE PROJECT AS DIRECTED BY THE ENGINEER

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTION OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

#### DETOUR NOTIFICATION

THE CONTRACTOR SHALL ADVISE THE PROJECT ENGINEER, PUTNAM COUNTY ENGINEER'S OFFICE A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO THE BEGINNING OF WORK AND/OR INTENDED ROAD CLOSURE.

#### ACCESS

THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION PHASES AND OPERATIONS IN A MANNER THAT PROVIDES ACCESS TO PROPERTY OWNERS/TENANTS AFFECTED BY THE WORK AT ALL TIMES, UNLESS OTHERWISE AGREED TO BY THE OWNER/TENANT.

#### MAINTAINING TRAFFIC RESTRICTIONS

COMPLETE CLOSURE OF CR-O FOR THE COMPLETE REMOVAL AND REPLACEMENT OF THE STRUCTURE WITH ALL SAFETY ITEMS INSTALLED AND FUNCTIONAL SHALL BE FOR A MAXIMUM OF 90 DAYS.

#### EXISTING SIGNS

EXISTING SIGNS REMOVED SHALL SITE FOR THE PUTNAM COUNTY E PER ITEM 630. IF THE COUNTY E SIGNS THEN THEY SHALL BE DISP EXISTING POSTS SHALL BE DISPO

#### CROSSINGS AND CONNECTIONS TO

WHERE PLANS PROVIDE FOR A PR CONNECTED TO, OR CROSS OVER OR UNDERGROUND UTILITY, THE THE EXISTING PIPES OR UTILITIE BEFORE STARTING TO LAY THE F

IF IT IS DETERMINED THAT THE E CONDUIT, OR EXISTING APPURTED DIFFERS FROM THE PLAN ELEVAT. IN THE PLAN CONDUIT SLOPE, TH BEFORE STARTING CONSTRUCTION PROPOSED CONDUIT WHICH WILL IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE F INTERSECT AN EXISTING SEWER O CONSTRUCTED AS SHOWN ON THE NOTIFIED BEFORE STARTING CO. OF THE PROPOSED CONDUIT WHIO INTERFERENCE WITH AN EXISTING

#### REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED O BEFORE FINAL ACCEPTANCE BY T OF THE COUNTY AND THE CONTR. REPRESENTATIVES, SHALL MAKE EXISTING SEWERS WHICH ARE TO MAY BE AFFECTED BY THE WORK. EXISTING CONDUITS AND THEIR A DETERMINED FROM FIELD OBSERV INSPECTION SHALL BE KEPT IN W

ALL NEW CONDUITS, INLETS, CAT CONSTRUCTED AS A PART OF THI ALL FOREIGN MATTER AND IN A C PROJECT WILL BE ACCEPTED BY

ALL EXISTING SEWERS INSPECTE MENTIONED PARTIES SHALL BE M CONDITION REASONABLY COMPAR THE ORIGINAL INSPECTION. ANY RESULTING FROM THE CONTRACTOR CORRECTED BY THE CONTRACTOR ENGINEER.

#### PAVEMENT MARKINGS

4" WHITE EDGE LINES, ITEM 646, EDGES OF THE PROPOSED PAVEM LOCATIONS:

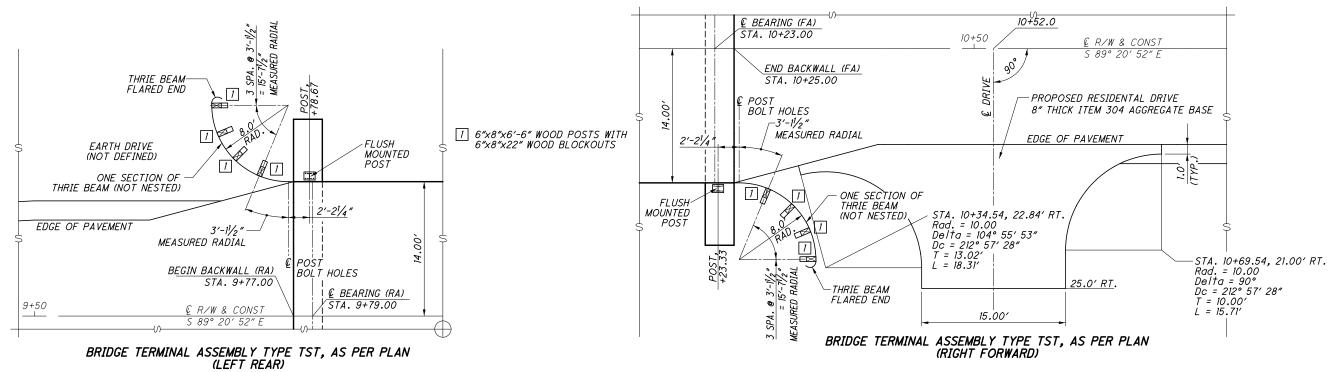
- STA. 9+00 TO STA. 12+00

A 4" YELLOW CENTERLINE, ITEM CENTERLINE OF THE ROAD AT TH

- STA. 9+00 TO STA. 12+00 (L

	CALCULATED MPS CHECKED HAC	
BE SALVAGED AND LEFT ON ENGINEERS OFFICE TO PICK-UP ENGINEER DOES NOT WANT THE POSED OF BY THE CONTRACTOR. POSED OF BY THE CONTRACTOR.	2	
TO EXISTING PIPES AND UTILITIES		
PROPOSED CONDUIT TO BE R OR UNDER AN EXISTING SEWER CONTRACTOR SHALL LOCATE TES BOTH AS TO LINE AND GRADE PROPOSED CONDUIT. ELEVATION OF THE EXISTING ENANCE TO BE CONNECTED, TION OF BEELLINE A CHANCE		
TION OR RESULTS IN A CHANGE THE ENGINEER SHALL BE NOTIFIED ON OF ANY PORTION OF THE		
BE AFFECTED BY THE VARIANCE	S	
PROPOSED CONDUIT WILL OR UNDERGROUND UTILITY IF TE PLAN, THE ENGINEER SHALL BE ONSTRUCTION OF ANY PORTION TCH WOULD BE AFFECTED BY THE G FACILITY.	RAL NOTE	
s	GENER	
ON THE PROJECT AND AGAIN THE COUNTY, REPRESENTATIVES RACTOR, ALONG WITH LOCAL AN INSPECTION OF ALL OREMAIN IN SERVICE AND WHICH (. THE CONDITION OF THE APPURTENANCES SHALL BE OVATIONS. RECORDS OF THE WRITING BY THE COUNTY.	GE	
TCH BASINS, AND MANHOLES HE PROJECT SHALL BE FREE OF CLEAN CONDITION BEFORE THE ' THE COUNTY.		
ED INITIALLY BY THE ABOVE MAINTAINED AND LEFT IN A RABLE TO THAT DETERMINED BY Y CHANGE IN THE CONDITION TOR'S OPERATIONS SHALL BE IR TO THE SATISFACTION OF THE		
	41	
S, SHALL BE PLACED AT BOTH MENT AT THE FOLLOWING	0 - 14.7	
646, SHALL BE PLACED AT THE HE FOLLOWING LOCATIONS (DOUBLE SOLID LINE)	PUT-CR	
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ITEM	ITEM Ext	GRAND TOTAL	UNIT	DESCRIPTION	<u>Environmental Notes</u> : 1. An asbestos survey o was conducted by a cer
					determined regulated a
201	11000	10			structure. The asbestos
201 203	11000 98500	LS LS		CLEARING AND GRUBBING ROADWAY, MISC.:EXCAVATION & EMBANKMENT	
203	90500	23		ROADMAT, MISC. EXCAVATION & EMDANKMENT	the plans.
204	10000	637	SY	SUBGRADE COMPACTION	
204	45000	1	HOUR	PROOF ROLLING	A copy of the Ohio Env
606	15050	175	FT	GUARDRAIL, TYPE MGS	Demolition and Renov
606	25000	2	EACH	ANCHOR ASSEMBLY, TYPE A	been included at the en
606	3216 <b>1</b>	2	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE TST, AS PER PLAN	The Contractor shall co
606	35002	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE I	
				EROSION CONTROL	
601	32200	63	СҮ	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	Ohio EPA, SAPC - Asb
659	98700	LS		SEEDING, MISC.:SEEDING AND MULCHING, AS PER PLAN	50 W. Town Street, 7th
832	30000	5,000	EACH	EROSION CONTROL	Columbus, OH 43216-
				DRAINAGE	
605	31100	37	FT	AGGREGATE DRAINS	Or submit these forms
000	51100	57			on the forms), at least 1
				PAVEMENT	
301	56000	63	СҮ	ASPHALT CONCRETE BASE, PG64-22, (449)	
304	20000	108	CY	AGGREGATE BASE	The Contractor shall p
407	10000	66	GAL	TACK COAT	Engineer. Information
411	10000	16	CY	STABILIZED CRUSHED AGGREGATE	ODOT Project Number
441	70000	19	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	number, 3) the schedul
441	70300	27	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449)	
				TRAFFIC CONTROL	Basis for payment: the
644	00100	0.12	MILE	EDGE LINE, 4"	
644	00300	0.06	MILE	CENTER LINE	necessary to complete a
					Renovation Forms. Pay
				STRUCTURE OVER 20 FOOT SPAN SEE ESTIMATED QUANTITIES	Structure Removal Iten
				INCIDENTALS	
614	11000	LS		MAINTAINING TRAFFIC	2. The Putnam County
623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	construction impacts to
623	50000	LS		PRECONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	
623	51000	LS		POST CONSTRUCTION SURVEY MONUMENT VERIFICATION AND REPORT	Putnam County Engine
624	10000	LS		MOBILIZATION	the pre-construction m
					terms and conditions o



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s survey of the PUT-CR O-14.741 bridge, scheduled for demolition, d by a certified asbestos hazard evaluation specialist. The survey egulated asbestos-containing materials are not present on the e asbestos survey report is found in the Special Provisions attached to

Ohio Environmental Protection Agency (OEPA) Notification of nd Renovation Forms, partially completed by the bridge owner, has l at the end of the asbestos survey report in the Special Provisions. or shall complete and sign the forms and submit them to:

APC - Asbestos Street, 7th Floor or P.O. Box 1049 H 43216-1049

ese forms electronically (electronic submission instructions provided , at least 10 working days prior to the start of any demolition work.

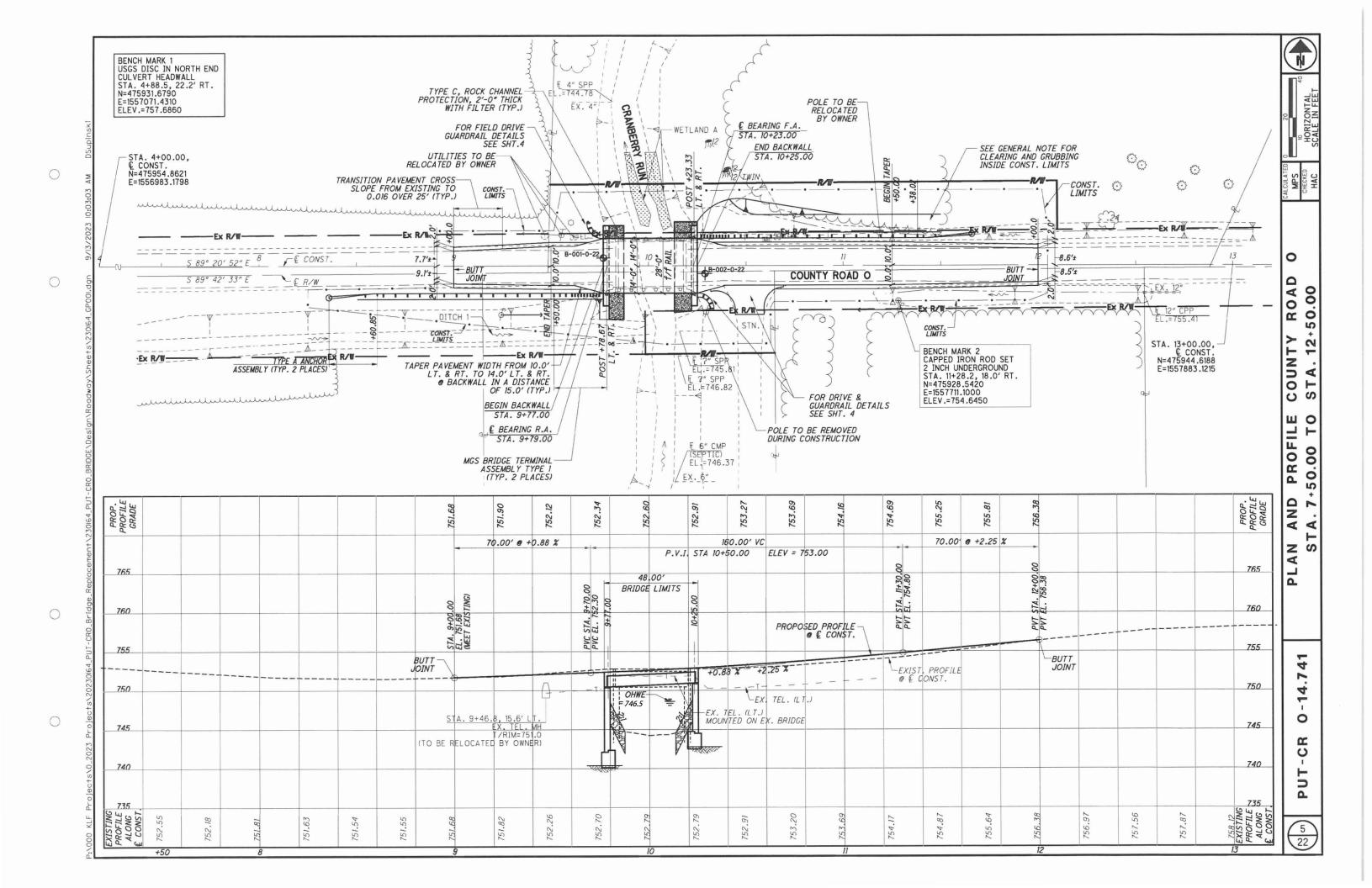
or shall provide a copy of the completed and signed forms to the ormation required on the forms shall include at a minimum: 1) the ct Number, 2) The Contractor's name, address, and telephone e scheduled dates for the start and completion of bridge demolition.

nent: the Contractor shall furnish all fees, labor, and material omplete and submit the OEPA Notification of Demolition and orms. Payments for this work shall be incidental to the Item 202 noval Item(s) in the plan.

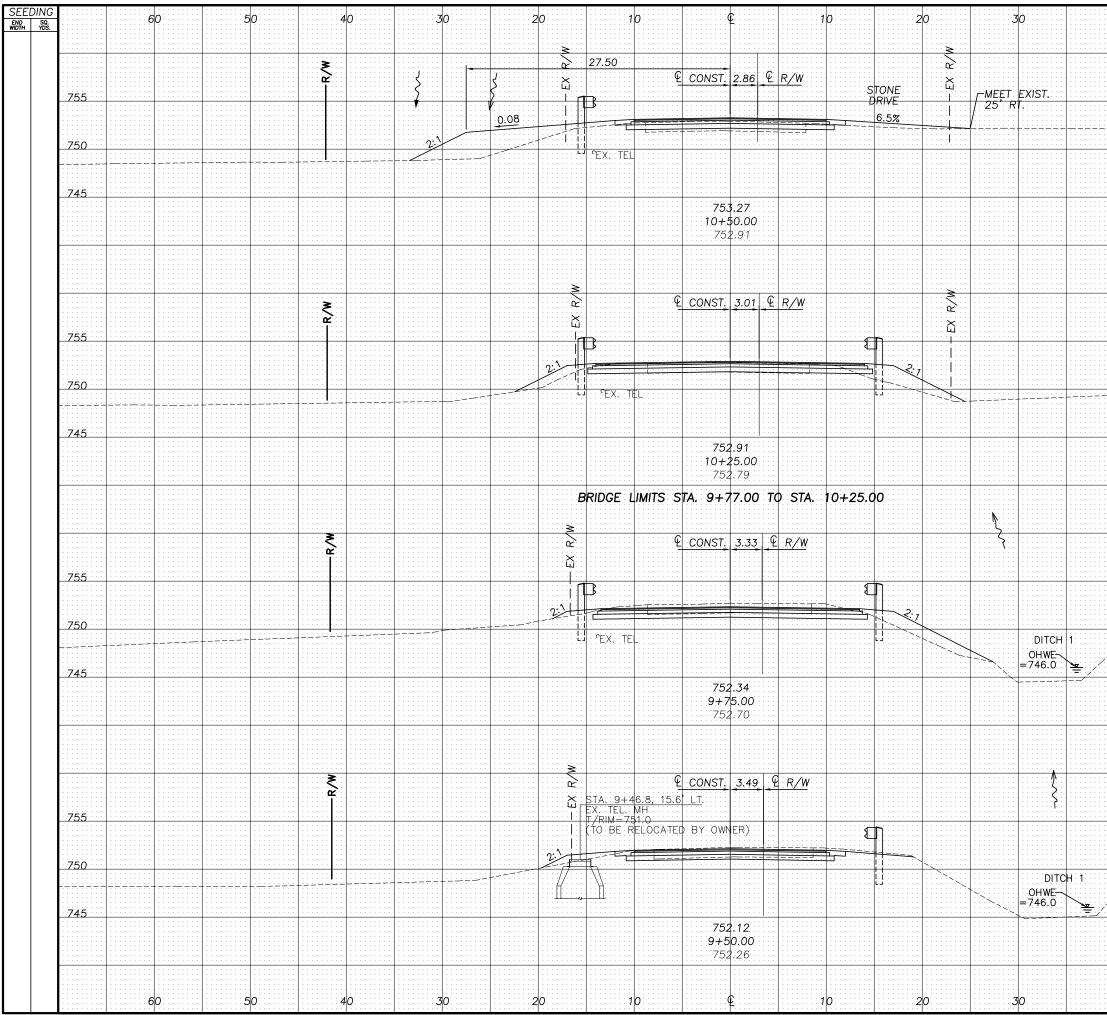
n County Engineer has obtained all necessary waterway permits for impacts to Cranberry Run, Ditch 1, and portions of Wetland A. The ity Engineer will provide the waterway permits to the Contractor at ruction meeting. The Contractor is responsible for following all the inditions of the waterway permit throughout construction.

PUT-CR 0-14.741

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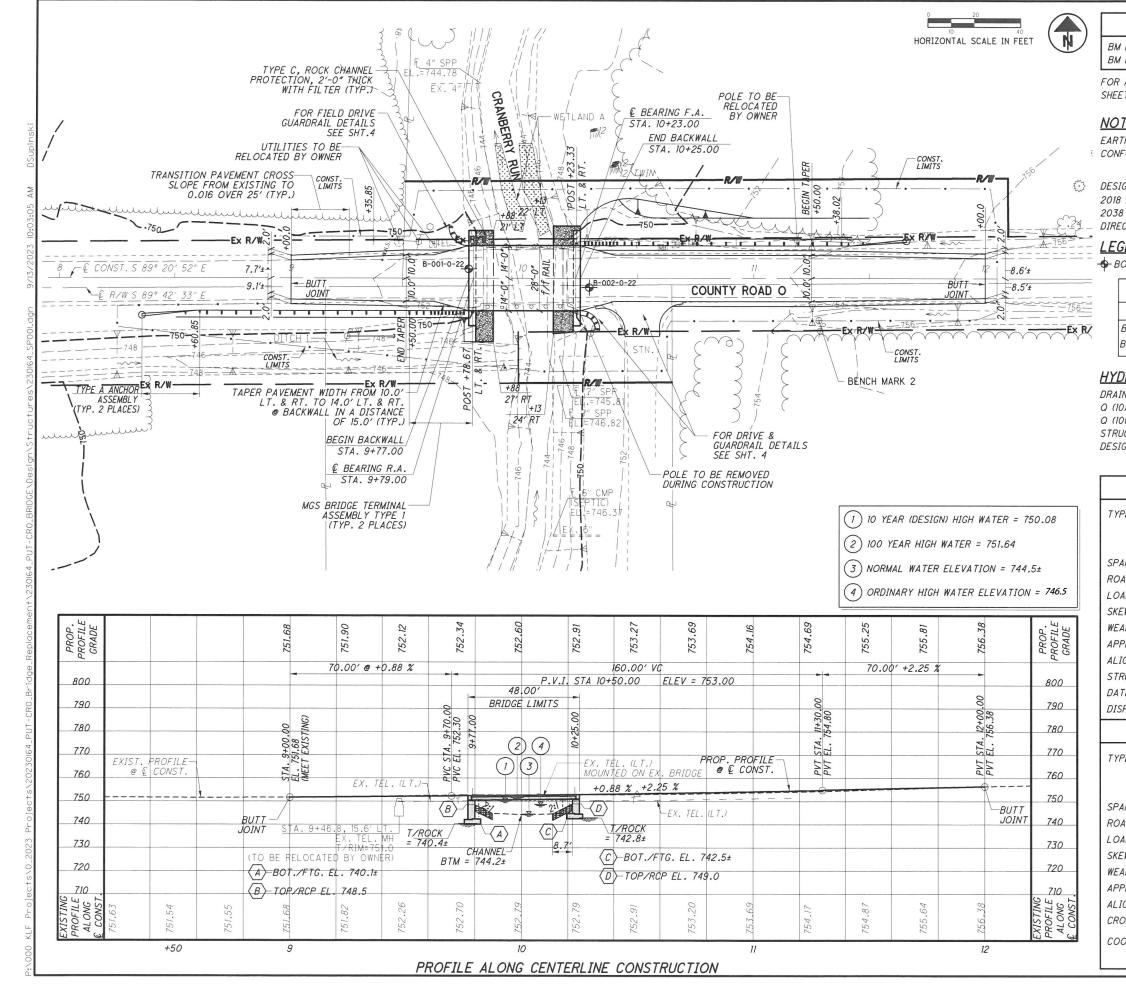


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60			× 2	<u>© CONST.</u> 1.60'	R/W W			CUT FILL	CUT
						 	760		
							755		
750				12+50.00 757.56			750		
			END FUL	L DEPTH PAVEMENT STA.	2+00.00 ¿				
	R W		26.00′ ₩ ₩	<u><u><u></u><u></u><u><u></u><u></u><u></u><u><u></u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u></u></u>	EX R/W		760		
755	<b>I</b>	MEET EXIST.				 	755	21 8	
750		{		756.38 <b>12+00.00</b> 756.38			750		
			₹ 26.00′						16
760	× 2		26.00'	© CONST. 2.23	EX R/		760		
		MEET EXIST.			MEET EXIST.	 	- 755	14 3	
750				755.25 <b>11+50.00</b> 754.87			750		
		↓	<u> </u>						13
755	R/W	MEET- EXIST.		€ CONST. 2.54′ € R/W	MEET	 	755		
750			•===				750	13 10	
745				754.16 <b>11+00.00</b> 753.69			745		

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	BEI	VCHMARK	DATA	
NO.1 STA NO.2 STA	1. 4+88.5, 4. 11+28.2,	ELEV.=757. ELEV.=754	.6860, OFFSET 22.2' RT. .6450, OFFSET 18.0' RT.	ENCY <b>:LDER</b> . Apped Solutions.
ADDITIONAL ET 5 18	BENCHMAR	K INFORMATI	ON. SEE ROADWAY PLAN	DESIGN AGENCY KLEINFELDER
TES THWORK LIMI FORM TO PL			IMATE. ACTUAL SLOPES SHALI	C
				/23 ABER
IGN TRAFFIC: 3 ADT = 270 8 ADT = 330 ECTIONAL DIS	) 202 ) 203	22 ADTT = 14 38 ADTT = 17 1 = 55%		REVIEWED DATE JDB 01/13/23 STRUCTURE FILE NUMBER 6932534
<u>GEND</u> BORING LOCA	TION			
	BOR	RING LOCAT	TIONS	DRAWN JEF REVISED
BORING	STATION	OFFSET	TOP OF ROCK EL.	
B-001-0-22		4'± LT.	740.4±	DESIGNEC MPS CHECKED
В-002-0-22	10+29±	4'± RT.	742.8±	
	= 11.3 SQ CFS CFS ARS THE 10	V (10) = V (100) =	4.3 FT/S 6.0 FT/S	PUTNAM COUNTY STA. 9+77.00 STA. 10+25.00
	EXIST	TING STRU	UCTURE	
		L BEAM SUPE METAL DECK	ERSTRUCTURE	
ANS: 35'-0"	C/C BEARI	NGS		74
ADWAY: 24'-	0" F/F DB	R		RUN
ADING: UNKI	VOWN			PLAN UT-CRC BERRY
EW: NONE				PUT NBEF
		ALT CONCETE		SITE SE No. ER CRAI
PROACH SLAI IGNMENT: TA				SITE PLA BRIDGE No. PUT-CR OVER CRANBERRY
RUCTURAL FI		: 6932533		BRIC
TE BUILT: 15		an an additional P. Co.		
SPOSITION:	TO BE REM	OVED		
	PROP	OSED STR	PUCTURE	
			MPOSITE BOX BEAMS OOTING ABUTMENTS.	41
AN: 44'-0"				0 - 14.7 117598
ADWAY: 28'-	O" F/F RA	IL		0-1
ADING: HL93	3, FWS=60	PSF		
EW: NONE	VCE: 1" 11	ONOLITHIC CO		
PROACH SLA		UNULITEL L	DINGITE I E	- TU PID
IGNMENT: TA				
OWN: 0.016	FT/FT			1 / 10
ORDINATES:		40°57′48.3		9
	LONGITUDE	83°59′17.0	1″ W	22
				$\sim$

#### STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

#### REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

<i>PSBD-2-07</i>	REVISED	07-20-18
SICD-1-96	REVISED	07-18-14
DS-1-92	REVISED	07- <i>1</i> 5-22
TST-1-99	REVISED	01-15-21

#### **OPERATIONAL IMPORTANCE:**

A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL 2020.

#### DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE 9th EDITION OF "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE\_AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, INCLUDING THE 2015 INTERM REVISIONS AND THE ODOT BRIDGE DESIGN MANUAL. DESIGN LOADING

DESIGN LOADING: HL-93 FUTURE WEARING SURFACE (FWS) OF 0.060 KIPS/SQ.FT.

#### DESIGN DATA

CONCRETE, CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI COMPRESSIVE STRENGTH 4.5 K.S.I. (SUPERSTRUCTURE)

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE) REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

CONCRETE FOR PRESTRESSED BOX BEAMS:

COMPRESSIVE STRENGTH (FINAL) - 7.0 KSI

COMPRESSIVE STRENGTH (RELEASE) - 5.0 KSI

PRESTRESSING STRANDS:

AREA = 0.167 SQ. IN.

ULTIMATE STRENGTH = 270 KSI

INITIAL STRESS = 202.5 KSI (LOW RELAXATION STRANDS)

#### DECK PROTECTION METHOD EPOXY COATED REINFORCING STEEL 21/2" CONCRETE COVER

TO BE 1 INCH THICK.

UTILITY LINES: ALL EXPENSE INVOLVED IN RELOCATION OF THE AFFECTED UTILITY LINES SHALL BE BORNE BY THE UTILITIES. THE CONTRACTOR AND UTILITIES ARE TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO EITHER WILL BE HELD TO A MINIMUM.

FOUNDATION BEARING RESISTANCE: ABUTMENT FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM SERVICE LOAD PRESSURE OF 4.9 KIPS PER SQUARE FOOT AND A MAXIMUM STRENGTH LOAD PRESSURE OF 7.0 KIPS PER SQUARE FOOT. THE ASSUMED FACTORED BEARING RESISTANCE IS 20 KIPS PER SQUARE FOOT.

FOOTINGS: FOOTINGS SHALL EXTEND A MINIMUM OF 3 INCHES INTO BEDROCK OR TO THE ELEVATION SHOWN, WHICHEVER IS LOWER.

THICKNESS.

				ESTIMATED QUANTITIES				CALC.	MPS	
			-	DESCRIPTION		MENTS		CHCK.	JTY	
ITEM	EXT	TOTAL	UNIT	DESCRIPTION	REAR	FWD.	SUPER	GENERAL	SEE	SHT
					ILEAN	1 1 1 2.				
202	11002	LUMP		STRUCTURE REMOVED, OVER 20 FOOT SPAN				LUMP		
503	11100	LUMP		COFFERDAMS AND EXCAVATION BRACING				LUMP		
503	21300	LUMP		UNCLASSIFIED EXCAVATION				LUMP		
503	31100	6	CU. YD.	ROCK EXCAVATION	3	3				
509	10000	13347	POLINDS	EPOXY COATED REINFORCING STEEL	4250	4249	4,848			
511	31610	27		CLASS QC2 CONCRETE, SUPERSTRUCTURE	42.50	7275	27			
511	44111	108		CLASS QCI CONCRETE, SUI ENGINALITY INCLUDING FOOTING, AS PER PLAN	57	51	21		20	OF 11
512	10100	44	SQ. YD.	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	15	15	14			
515	12030	7	EACH	PRESTRESSED CONCRETE COMPOSITE BOX BEAM BRIDGE MEMBERS, LEVEL 1, CB17-48 (45'-00 LONG)			7			
SPECIAL	51631200	56	FT	SAWING AND SEALING BITUMINOUS CONCRETE JOINTS	28	28				
516	13600	26	SQ.FT.	I" PREFORMED EXPANSION JOINT FILLER	13	13				
516	14020	66	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	33	33				
516	43100	28	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES ONLY (NEOPRENE) (1.5" x 5.5" x 11.5")	14	14				
517	70000	44.66	FT	RAILING (TWIN STEEL TUBE)			44.66			
SPECIAL	51822300	114	FT	STEEL DRIP STRIP			114			
518	21230	LUMP		POROUS BACKFILL WITH FILTER FABRIC				LUMP		
518	40000	86	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	43	43				
518	40010	40	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	21	19				
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					4					

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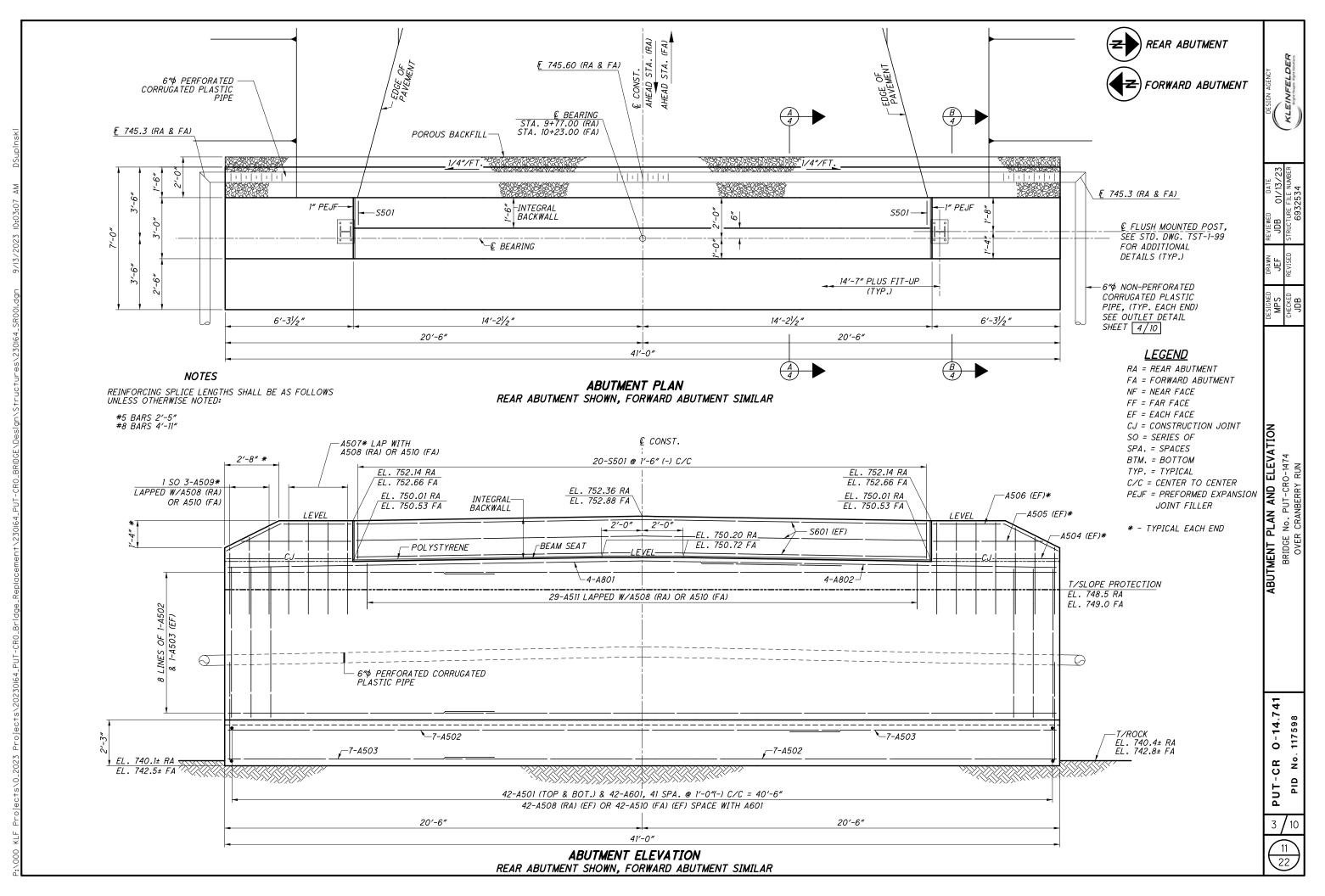
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MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES,

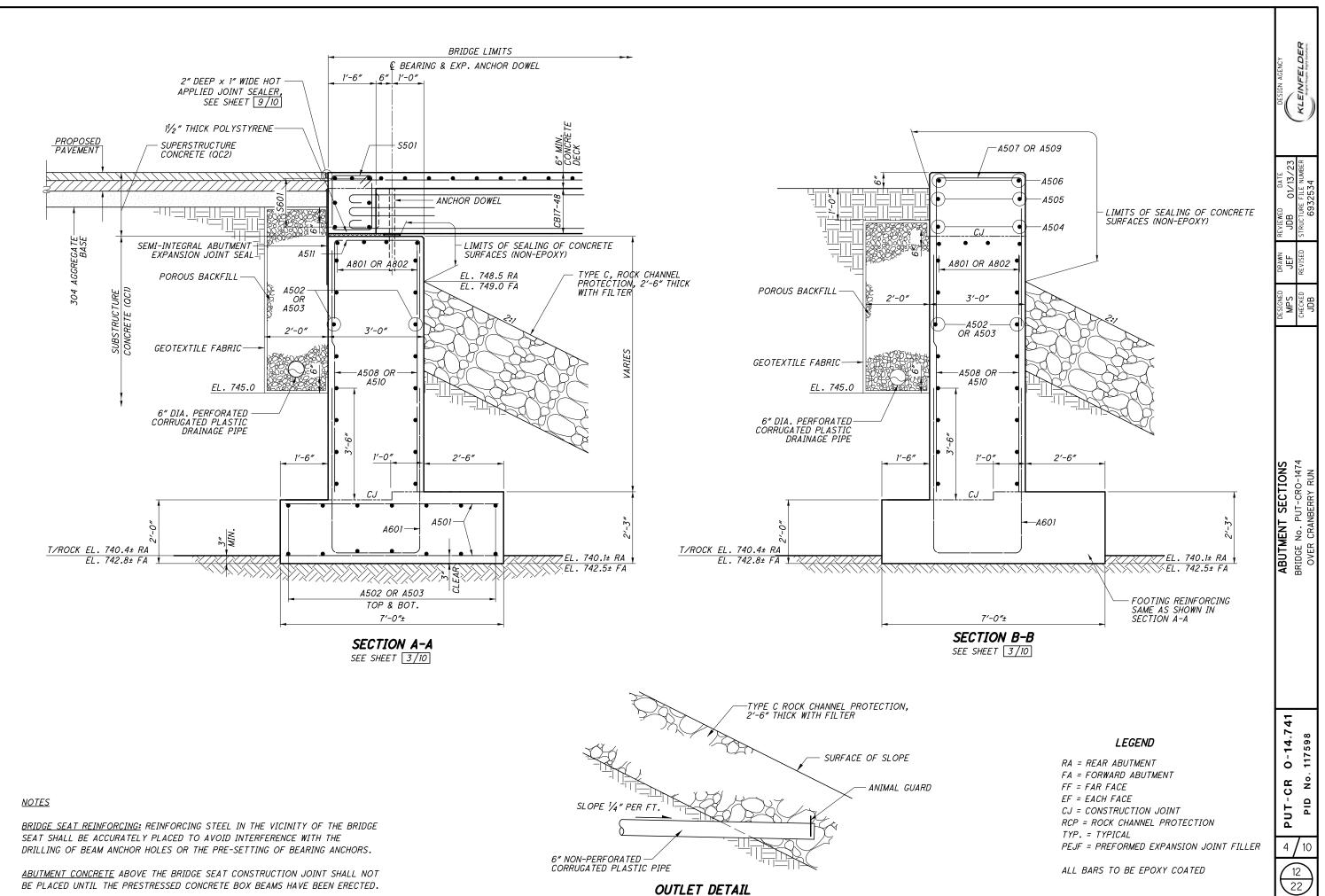
ITEM 511 - CLASS QCI CONCRETE, AS PER PLAN: POLYSTYRENE -FURNISH MATERIAL MEETING THE REQUIREMENTS OF ASTM C578 TYPE IV. NEATLY CUT MATERIAL AS NECESSARY TO ALLOW FOR PROPER INSTALLATION. JOINTS AT ABUTTING PIECES SHALL BE SEALED WITH DUCT TAPE. ALLOWABLE TOLERANCE FOR THE TOTAL THICKNESS OF THE MATERIAL SHALL BE -O", +1/2". DO NOT PLACE MORE THAN TWO LAYERS OF POLYSTYRENE TO ACHEIVE TOTAL

1012						
(	- 1997	CENERAI NOTES AND ESTIMATED OLIANTITES	DESIGNED	DRAWN	REVIEWED DATE	DESIGN AGENCY
	2   >   >   >   PUT-CR 0-14,741		NPS	5	JDB 01/13/23	(
1				i	2	
02	_	BRIDGE NO. PUI-CKO-1474	CHECKED	REVISED	STRUCTURE FILE NUMBER	KLEINFELDER
)	O PID No. 117598	OVER CRANBERRY RUN	4DB		6932534	Bright Areas Right Shutham.



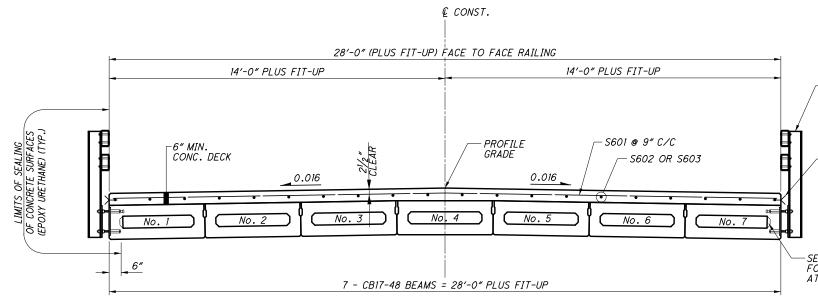
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TRANSVERSE SECTION

-TWIN STEEL TUBE BRIDGE RAILING, SEE STD. DWG. TST-1-99

> —STEEL DRIP STRIP, SEE STD. DWG. DS-1-92

- SEE PSBD-2-07 SHEET 1/4 FOR WALL THICKNESS AT GUARDRAIL ANCHORS

	G PUT-CR 0-14.741	N :	DESIGNED MPS	DRAWN JEF	REVIEWED DATE JDB 01/13/23	DESIGN AGENCY
3	G PID No. 117598	BRIDGE NO. PUI-CRO-1474 OVER CRANBERRY RUN	CHECKED JDB	REVISED	STRUCTURE FILE NUMBER 6932534	KLEINFELDER anger Propie Right Salation.

45'-0" BEAM LENGTH 44'-0" C/C BEARINGS 2'-0" 20'-6" 20′-6″ <u>© OF DIAPHRAGM</u> (TYP.) T Т I Ť • BEAM No. 1 (CB17-48) 5½ "x11½ "x1½" LAMINATED ELASTOMERIC BEARING PADS (TYP. EACH END) ł N 1'-6" ¢ BEAM No. 2 (CB17-48) (TYP.) ſſ 6″ (TYP.) 1½ "x6"x6" PEJF RETAINER (TYP. AT EACH ANCHOR DOWEL LOCATION) BEAM No. 3 (CB17-48) € CONST. Þ BEAM No. 4 (CB17-48) <u>© BEARING RA (SEMI-INT.)</u> STA. 9+79.00 PRECAST TIE ROD HOLES FOR 1" DIA. STEEL ROD (TYP.) SEE PSBD-2-07, SHT. 2/4 - 1 BEAM No. 5 (CB17-48) (TYP.) Þ BEAM No. 6 (CB17-48) EXP. ANCHOR DOWEL (TYP.) SEE PSBD-2-07 SHEET 1/4 ¢ BEAM No. 7 (CB17-48) 十 十 十 <u>© FLUSH MOUNTED</u> POST ON ABUTMENT 67 78. GUARDRAIL POST SPACING 3'-41/4" 3'-41/4" 3′-4¹/4″ 5 SPACES @ 6'-3" RAIL POST = 31'-3"

FRAMING PLAN

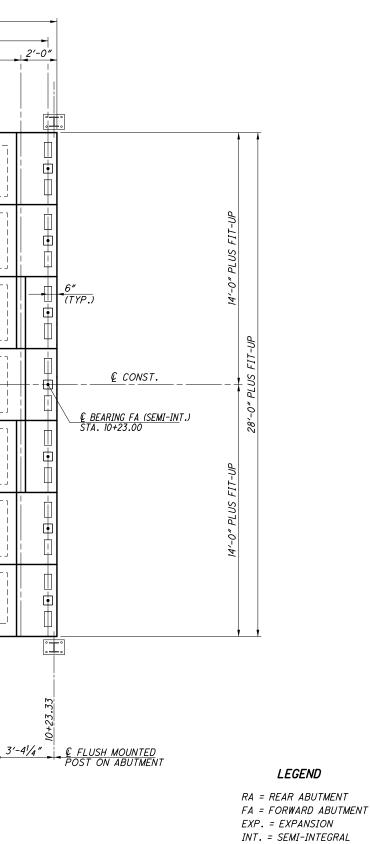
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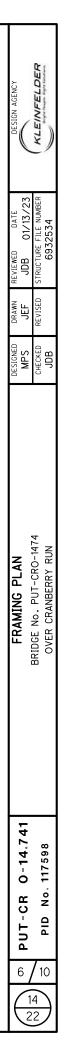
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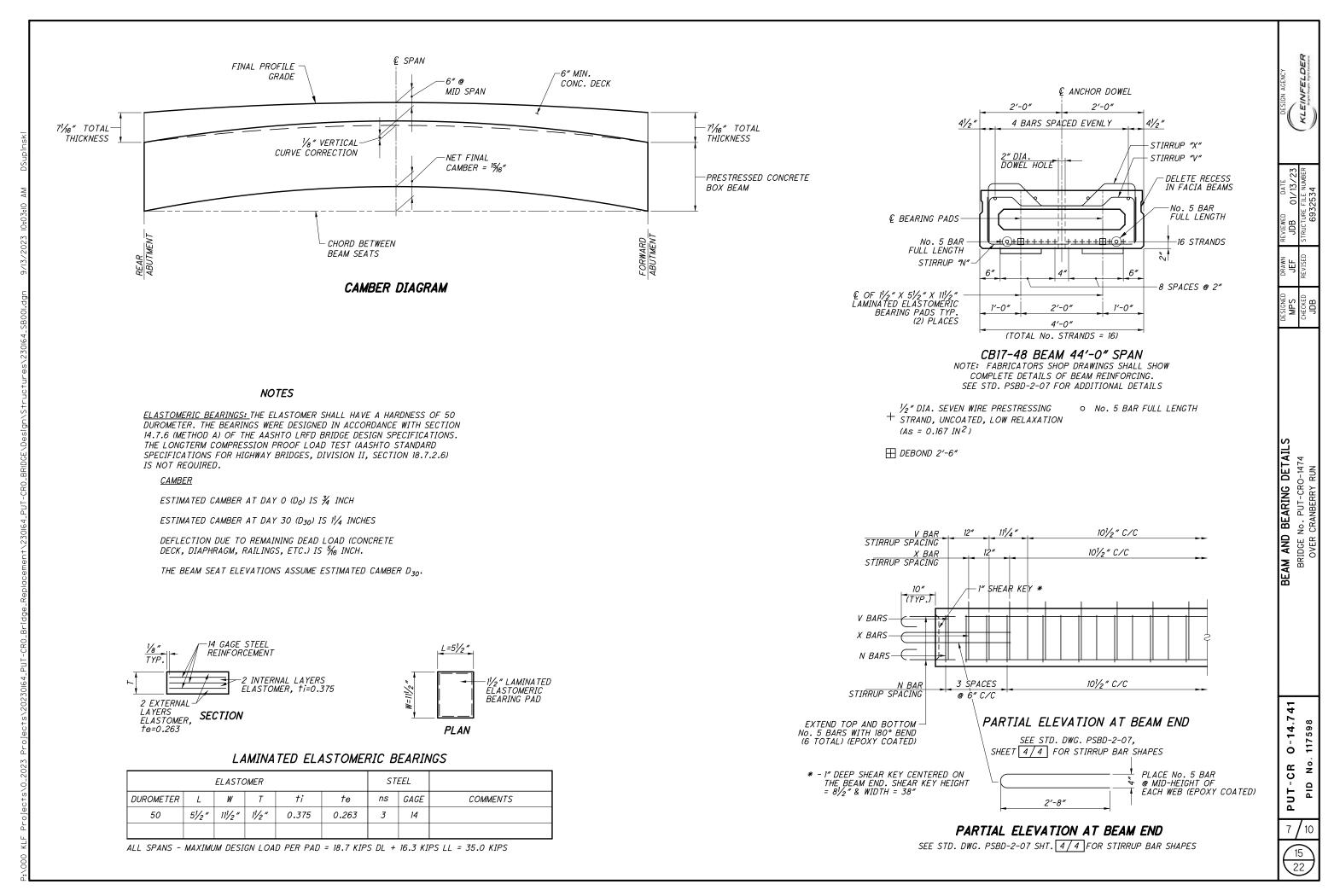
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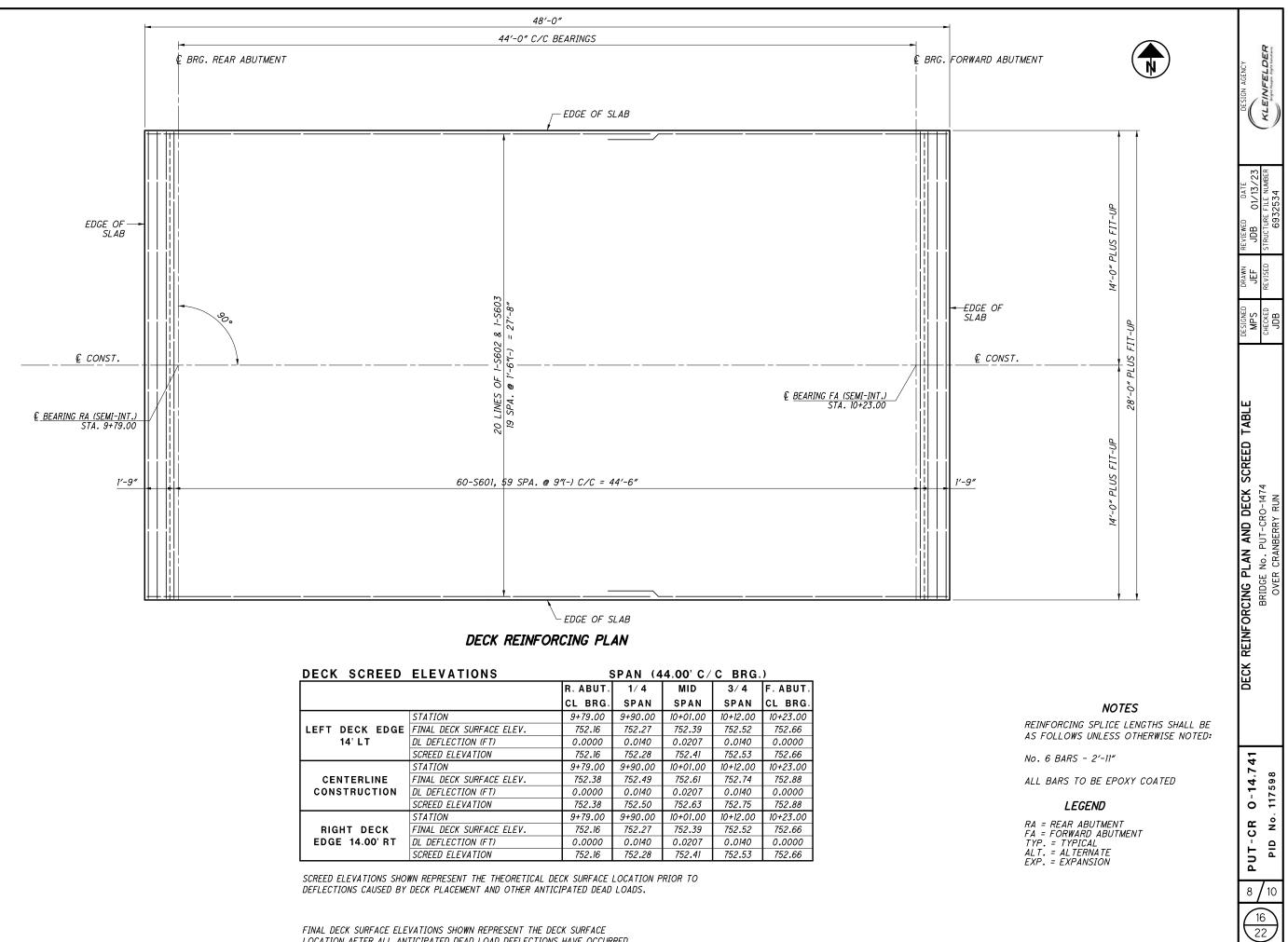
TYP. = TYPICAL





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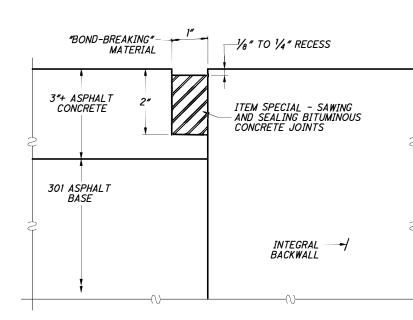
DECK SCREED	ELEVATIONS	5	SPAN (4	4.00' C/	C BRG.	)
		R. ABUT.	1/ 4	MID	3/4	F. ABUT.
		CL BRG.	SPAN	SPAN	SPAN	CL BRG.
	STATION	9+79.00	9+90.00	10+01.00	10+12.00	10+23.00
LEFT DECK EDGE	FINAL DECK SURFACE ELEV.	752.16	752.27	752.39	752.52	752.66
14' LT	DL DEFLECTION (FT)	0.0000	0.0140	0.0207	0.0140	0.0000
	SCREED ELEVATION	752.16	752.28	752.41	752.53	752.66
	STATION	9+79.00	9+90.00	10+01.00	10+12.00	10+23.00
CENTERLINE	FINAL DECK SURFACE ELEV.	752.38	752.49	752.61	752.74	752.88
CONSTRUCTION	DL DEFLECTION (FT)	0.0000	0.0140	0.0207	0.0140	0.0000
	SCREED ELEVATION	752.38	752.50	752.63	752.75	752.88
	STATION	9+79.00	9+90.00	10+01.00	10+12.00	10+23.00
RIGHT DECK	FINAL DECK SURFACE ELEV.	752.16	752.27	752.39	752.52	752.66
EDGE 14.00'RT	DL DEFLECTION (FT)	0.0000	0.0140	0.0207	0.0140	0.0000
	SCREED ELEVATION	752.16	752.28	752.41	752.53	752.66

LOCATION AFTER ALL ANTICIPATED DEAD LOAD DEFLECTIONS HAVE OCCURRED.

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## SEALING OF JOINTS AT ABUTMENTS

ITEM SPECIAL-SAWING AND SEALING BITUMINOUS CONCRETE JOINTS

#### 1) DESCRIPTION:

THIS WORK SHALL CONSIST OF CUTTING AND SEALING TRANSVERSE JOINTS IN THE NEW BITUMINOUS CONCRETE. BITUMINOUS CONCRETE JOINTS SHALL BE CONSTRUCTED DIRECTLY OVER, AND IN LINE WITH, THE EXISTING UNDERLYING TRANSVERSE ABUTMENT JOINT OF THE BOX BEAMS.

#### 2) MATERIALS:

THE JOINT SEALANT SHALL MEET THE REQUIREMENTS OF ITEM 705.04, JOINT SEALANTS, HOT-POURED, FOR CONCRETE AND ASPHALT PAVEMENTS. ACCEPTABLE ALTERNATE MATERIALS ARE:

A SILICONE SEALANT MEETING FEDERAL SPECIFICATIONS TT-S-001543A CLASS A (ONE-PART SILICONE SEALANTS) AND TT-S-00230C CLASS A (ONE-COMPONENT SEALANTS), SUCH AS THOSE MANUFACTURED BY GENERAL ELECTRIC, SILICONE PRODUCTS DIVISION, 4015 EXECUTIVE PARK DRIVE, CINCINNATI, OHIO 45242 (513-243-1953)OR DOW CORNING, 400 TECHNE CENTER. SUITE 103. MILFORD. OHIO 45150 (513-831-3586): OR SOF-SEAL, A COLD-APPLIED, LOW-MODULUS, TWO-COMPONENT POLY-MERIC COMPOUND HORIZONTAL SEALANT AS MANUFACTURED BY W.R.MEADOWS. INC., P.O.BOX 543, ELGIN, ILLINOIS 60121 (800-342-5976).

#### 3) CONSTRUCTION DETAILS:

A) GENERAL: THE CONTRACTOR SHALL CONDUCT HIS OPERATION SO THAT THE CUTTING, CLEANING AND SEALING OF TRANSVERSE JOINTS IS A CONTINUOUS OPERATION THAT WILL BE PERFORMED AS SOON AS PRACTICAL AFTER THE PAVING, BUT NO LATER THAN FOUR (4) DAYS AFTER PLACEMENT OF THE ASPHALT CONCRETE SURFACE COURSE. TRAFFIC SHALL NOT BE ALLOWED TO KNEAD TOGETHER OR DAMAGE JOINT CUT PRIOR TO SEALING.

B) CUTTING OF TRANSVERSE JOINTS: THE CONTRACTOR SHALL SAW OR ROUT TRANSVERSE JOINTS TO THE DIMENSIONS SHOWN IN THE DETAILS ON THIS SHEET. THE CUT JOINTS SHALL LIE DIRECTLY ABOVE EACH BOX BEAM ABUTMENT JOINT.

THE BLADE OR BLADES SHALL BE OF SUCH SIZE THAT THE FULL WIDTH AND DEPTH OF THE CUT CAN BE MADE WITH ONE PASS. DRY OR WET CUTTING WILL BE ALLOWED. JOINTS SHALL EXTEND THE FULL WIDTH OF THE BRIDGE.

C) CLEANING JOINTS: DRY SAWED JOINTS SHALL BE THOROUGHLY CLEANED WITH A SUFFICIENT AMOUNT OF COMPRESSED AIR TO REMOVE ANY DIRT, DUST, OR DELETERIOUS MATTER. WET SAWED JOINTS SHALL BE WASHED CLEAN OF ALL CUTTINGS BY FLUSHING WITH A JET OF WATER AND WITH OTHER TOOLS AS NECESSARY. AFTER FLUSHING. THE JOINT SHALL BE BLOWN OUT WITH COM-PRESSED AIR. WHEN THE SURFACES ARE THOROUGHLY CLEAN AND DRY, AND JUST PRIOR TO PLACING THE JOINT SEALER, COMPRESSED AIR HAVING A PRESSURE OF AT LEAST 90 P.S.I. SHALL BE USED TO BLOW OUT THE JOINT AND REMOVE ALL TRACES OF DUST.

JEFICE OF FRUCTURAI IGINEERING IN THE EVENT FRESHLY CUT JOINTS BECOME CONTAMINATED BEFORE THEY ARE SEALED. THEY SHALL BE RECLEANED OF ALL FOREIGN MATERIAL BY HIGH PRESSURE WATER JET. D) SEALING JOINTS: THE JOINT SHALL BE THOROUGHLY DRY WHEN THE SEALANT IS PLACED. AFTER CLEANING AND DRYING. A BOND-BREAKER MATERIAL SHALL BE APPLIED TO THE BOTTOM OF THE GROOVE. HOT-POURED JOINT SEALANT MATERIAL SHALL BE HEATED IN A KETTLE Φ OR MELTER CONSTRUCTED AS A DOUBLE BOILER, WITH THE SPACE Bridg BETWEEN THE INNER AND OUTER SHELLS FILLED WITH OIL OR OTHER HEAT TRANSFER MEDIUM. POSITIVE TEMPERATURE CONTROL AND MECHAN-ICAL AGITATION SHALL BE PROVIDED. HEATING MUST BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. JOINT SEALER MATERIAL SHALL NEVER BE KEPT HEATED AT THE POURING ε TEMPERATURE FOR MORE THAN FOUR (4) HOURS AND SHALL NEVER BE ß REHEATED.SEALER LEFT IN THE APPLICATOR AT THE END OF A Be DAY'S WORK SHALL NOT BE USED. × HOT-POURED SEALANT SHALL BE APPLIED IMMEDIATELY THROUGH 0 A NOZZLE, WHICH MUST PROJECT INTO THE SAWED JOINT, Ď FILLING FROM THE BOTTOM UP. THE SEALANT SHALL COMPLETELY Φ FILL THE JOINT IN SUCH A MANNER THAT, AFTER COOLING, THE LEVEL OF THE SEALANT WILL NOT BE HIGHER THAN 1/8" cret BELOW THE PAVEMENT SURFACE. ANY DEPRESSION IN THE COOLED SEAL GREATER THAN 3/6" SHALL BE BROUGHT UP TO THE SPECIFIED Con LIMIT BY FURTHER ADDITION OF HOT-POURED SEALANT. CARE SHALL BE TAKEN IN THE SEALING OF THE JOINTS SO THAT THE FINAL APPEARANCE WILL PRESENT A NEAT FINE LINE. S Bituminou THE COLD APPLIED SEALANT MATERIALS (POLYURETHANE, SILICONE, AND POLYMERIC COMPOUNDS) SHALL BE INSTALLED AS PER MANU-FACTURERS' RECOMMENDATIONS, EXCEPT AS MODIFIED BY THIS DRAWING. THE SEALANT SHALL BE INSTALLED WHEN THE AMBIENT TEMPERATURE IS 40 DEGREES F OR HIGHER. TRAFFIC SHALL NOT BE ALLOWED ON THE JOINT FOR ONE HOUR AFTER APPLICATION OF THE SEALANT. 4) METHOD OF MEASUREMENT: <u>2</u> THE QUANTITY TO BE PAID FOR UNDER THIS ITEM WILL BE THE Joints NUMBER OF LINEAR FEET OF JOINTS SAWED AND SEALED AS PER THE ABOVE REQUIREMENTS. 5) BASIS OF PAYMENT: utment THE UNIT PRICE PER LINEAR FOOT FOR ITEM SPECIAL-"SAWING AND SEALING BITUMINOUS CONCRETE JOINTS" SHALL INCLUDE THE COST OF ALL LABOR. MATERIALS. AND EQUIPMENT NECESSARY TO COMPLETE THE WORK, INCLUDING THE FURNISHING AND PLACING ΑÞ OF THE JOINT SEALER MATERIAL. 4 -14.7 11759 Ο ° N ۳ υ ۵I PUT 9 / 10 22

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INCE	С	В	Α	TYPE	WEIGHT	LENGTH	<b>MENTS</b>	ABUT	TOTAL	MARK
		-			(POUNDS)		FWD.	REAR		
				S	BUTMENT	AE			· · · ·	
			6-8	S	1168	6-8	84	84	168	A501
			30-0	S	1877	30-0	30	30	60	A502
			13-1	S	819	13-1	30	30	60	A503
			6-0	S	50	6-0	4	4	8	A504
			5-1	S	42	5-1	4	4	8	A505
	3-5	2-6	1-3	19	49	5-10	4	4	8	A506
	4-7	2-8	4-7	2	193	11-7	8	8	16	A507
			7-6	S	657	7-6	0	84	84	A508
	4-6		4-6			11-5	2	2	4	
0-6	ΤO	2-8	TO	2	82	TO	SO	SO	SO	A509
	5-6		5-6			12-5	3	3	3	
			5-7	S	489	5-7	84	0	84	A510
	2-8	2-8	2-8	2	469	7-9	29	29	58	A511
	5-3	2-8	5-3	2	1630	12-11	42	42	84	A601
			30-0	S	641	30-0	4	4	8	A801
			15-7	S	333	15-7	4	4	8	A802
		L	ΙΤ ΤΟΤΑ	ABUTMEN	8,499					

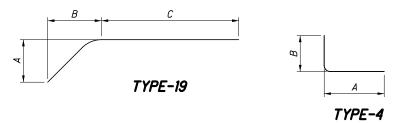
NOTE: BAR DIMENSIONS SHOWN ARE OUT TO OUT UNLESS OTHERWISE INDICATED. "R" INDICATES INSIDE RADIUS, UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.

ALL REINFORCING STEEL TO BE EPOXY COATED.

# BAR LEGEND

A	<u>5 0 6</u>
bar —	<i>\ BA</i>
LOCATION	\ BA
- A -	ABUTMENT
- S -	SUPERSTRU
- R -	RAILING

A TYPE-S



## LENGTHS SHOWN IN FEET AND INCHES

MARK	TOTAL	LENGTH	WEIGHT	TYPE	A	В	С	D	E	INCE
			(POUNDS)	)						
				SUPER	STRUCTU	RE				
S501	40	6-1	254	3	1-2	1-7				
S601	74	27-8	3075	S	27-8					
S602	20	30-0	901	S	30-0					
S603	20	20-7	618	S	20-7					
			4,848	SUPERST	RUCTURE	Е ТОТАЦ				

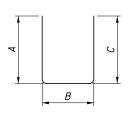
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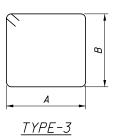
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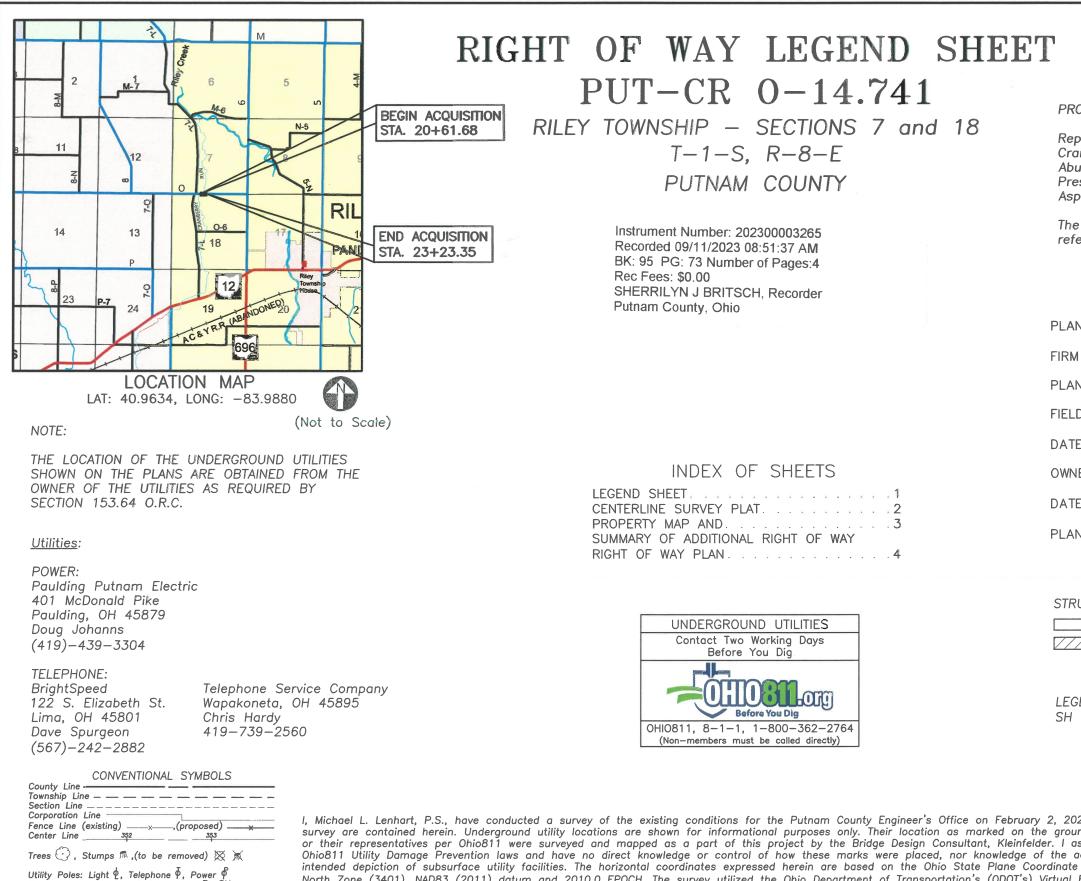
BAR NUMBER BAR SIZE ENT STRUCTURE





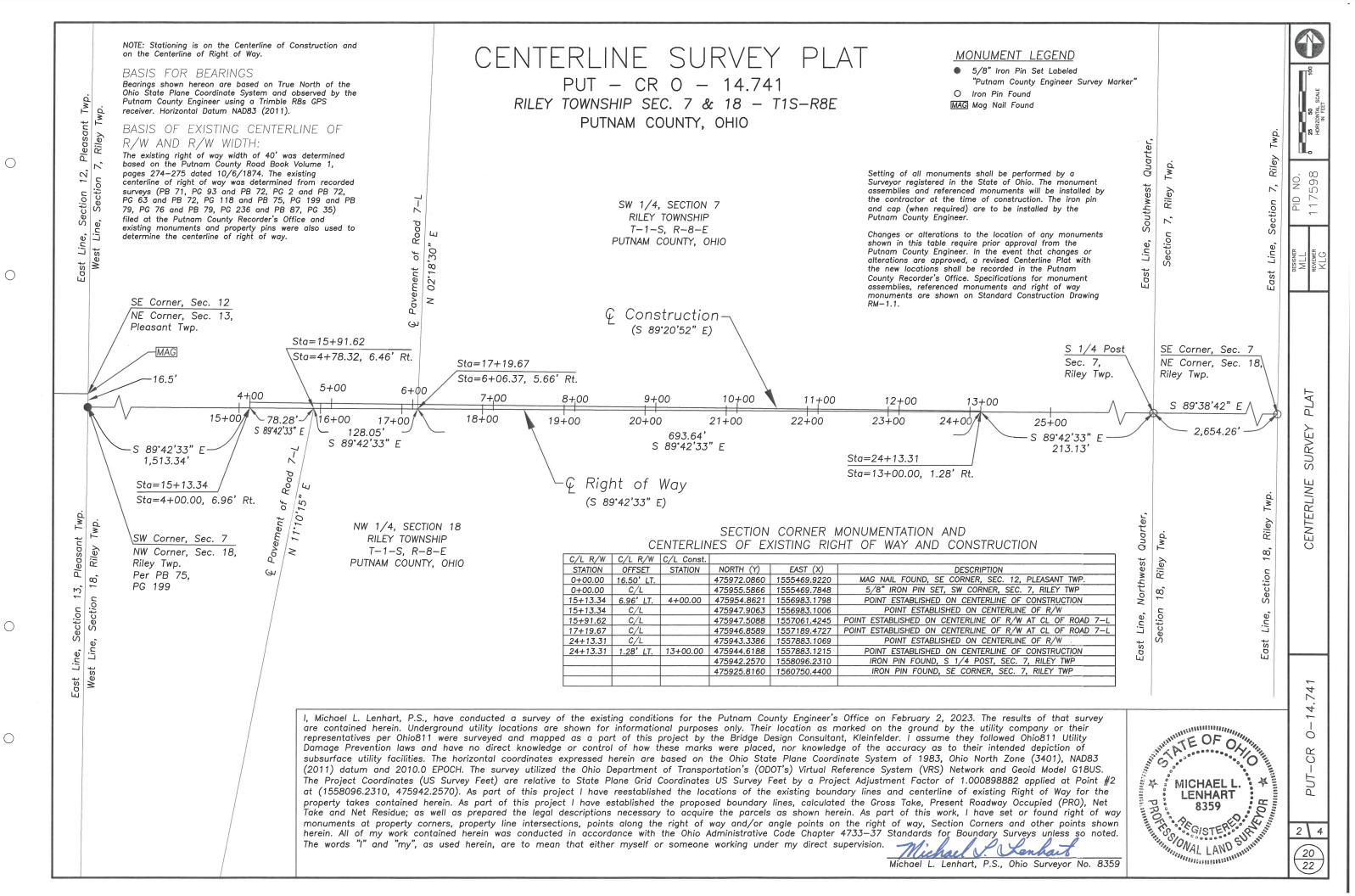


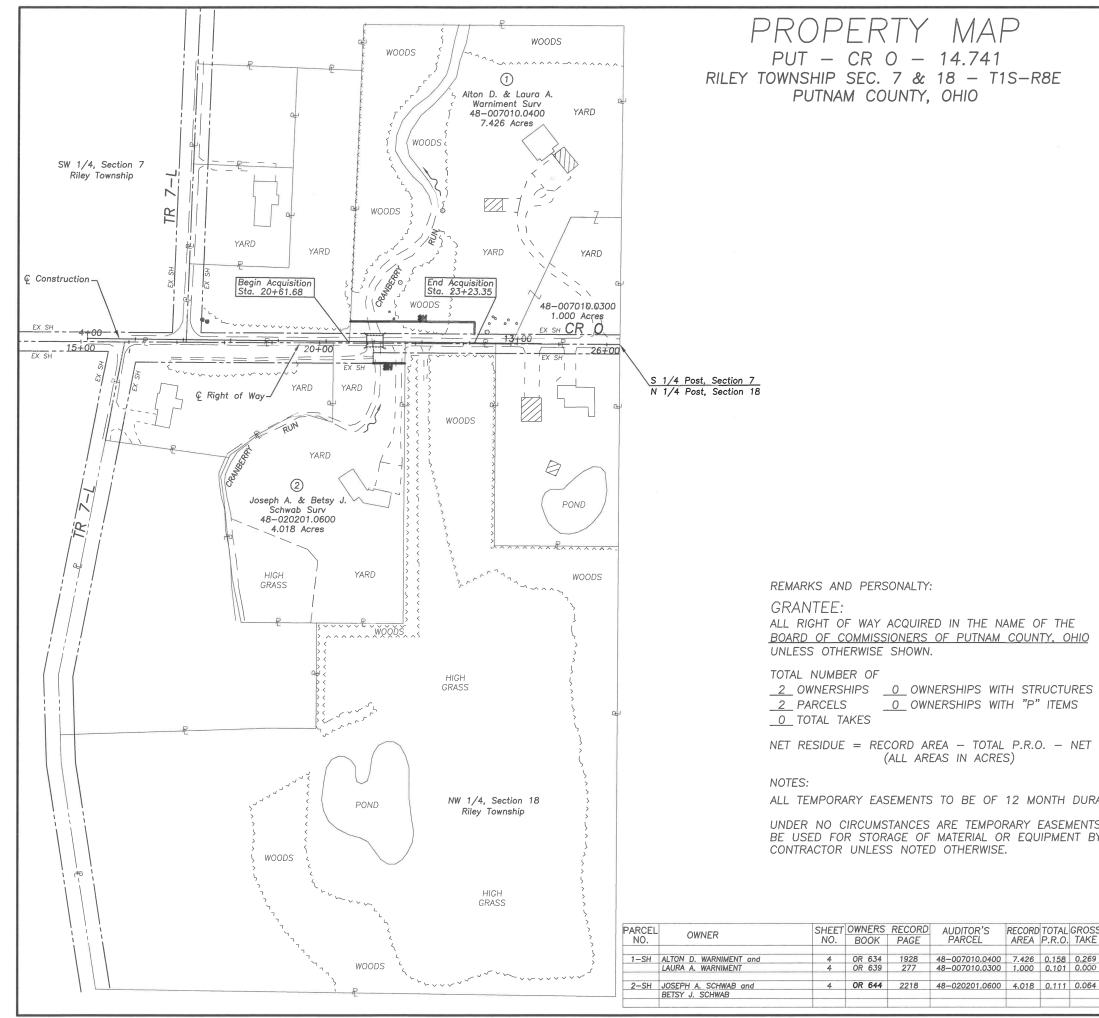
10	0 DIT-CB 0-14.741	REINFORCING STEEL LIST	DESIGNED	DRAWN	REVIEWED DATE	DESIGN AGENCY
1						
-		BRIDGE NO. PUI-CKO-1474	CHECKED	REVISED	STRUCTURE FILE NUMBER	KLEINFELDER
。 )	PID No. 117598	OVER CRANBERRY RUN	JDB		6932534	Bright Prospic Right Salutions.



survey are contained herein. Underground utility locations are shown for informational purposes only. Their location as marked on the groun or their representatives per Ohio811 were surveyed and mapped as a part of this project by the Bridge Design Consultant, Kleinfelder. I as Ohio811 Utility Damage Prevention laws and have no direct knowledge or control of how these marks were placed, nor knowledge of the ac intended depiction of subsurface utility facilities. The horizontal coordinates expressed herein are based on the Ohio State Plane Coordinate North Zone (3401), NAD83 (2011) datum and 2010.0 EPOCH. The survey utilized the Ohio Department of Transportation's (ODOT's) Virtual F Network and Geoid Model G18US. The Project Coordinates (US Survey Feet) are relative to State Plane Grid Coordinates US Survey Feet by Factor of 1.000898882 applied at Point #2 at (1558096.2310, 475942.2570). As part of this project I have reestablished the locations of lines and centerline of existing Right of Way for the property takes contained herein. As part of this project I have established the propose calculated the Gross Take, Present Roadway Occupied (PRO), Net Take and Net Residue; as well as prepared the legal descriptions necessar as shown herein. As part of this work, I have set or found right of way monuments at property corners, property line intersections, points and/or angle points on the right of way, Section Corners and other points shown herein. All of my work contained herein was conducted in Ohio Administrative Code Chapter 4733–37 Standards for Boundary Surveys unless so noted. The words "I" and "my", as used herein, are the myself or someone working under my direct supervision.

SHEE'	<b>P</b> ROJECT DESCRIPTION Replacement of the County Cranberry Run using Reinfo Abutments on Spread Foot Prestressed Concrete Box Asphalt Approaches. The existing and proposed referenced from the center	right of way shall be	MLL FID NO. FID NO. FIDERNI, FRANKET NO. MLL 117598 E230251 KLG	
	PLANS PREPARED BY: FIRM NAME: <u>PUTNAM COUNT</u> PLANS PREPARED BY: <u>Michol</u> FIELD REVIEW BY: <u>Scott Rec</u> DATE COMPLETED: <u>3/24/20</u> OWNERSHIP VERIFIED BY: <u>Mi</u> DATE COMPLETED: <u>8/7/202</u> PLAN COMPLETION DATE: <u>8</u> /	23 chael L. Lenhart, P.E., P.S. 23 chael L. Lenhart, P.E.,P.S. 3	OF WAY LEGEND SHEET	
	STRUCTURE KEY Residential Building ZZZ Non-Residential Build LEGEND SH = Standard Highway Ed		RIGHT OF	
as marked on th onsultant, Kleinfeld , nor knowledge o o State Plane Coo tation's (ODOT's) " inates US Survey I ablished the locati ve established the legal descriptions ine intersections, d herein was cond ny", as used herei Michaelo	2, 2023. The results of that e ground by the utility company er. I assume they followed f the accuracy as to their ordinate System of 1983, Ohio Virtual Reference System (VRS) Feet by a Project Adjustment tons of the existing boundary proposed boundary lines, necessary to acquire the parcels points along the right of way fucted in accordance with the in, are to mean that either	MICHAEL L. MICHAEL L. A MICHAEL A MICHAEL	72 6 14.741	





	LIMIT FLA For all Beg Work Flags	AG NOTE: gin and End , See Detai	l Project, I Sheets	Acquisitio	n, and		$\mathbb{D}$
	Structure Resi ZZZ Non	<u>e Key:</u> dential Buil –Residentia	ding I Building			100 50	HORIZONTAL SCALE
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						P.I.D. NO.	117598
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