SHEET NUM.													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	5	6	7	8	14	15	16	18	24	28	RW.2	01/STR		EXT	TOTAL			
																		ROADWAY	
LS													LS	201	11000	LS		CLEARING AND GRUBBING	
							1,179						1,179	202	23000	1,179	SY	PAVEMENT REMOVED	
								512.5					512.5	202	38000	512.5	FT	GUARDRAIL REMOVED	
								3					3	202	42010	3	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E	
								1					1	202	42040	1	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
									1,692				1,692	203	10000	1,692	CY	EXCAVATION	
									520				520	203	20000	520	CY	EMBANKMENT	
							1,497						1,497	204	10000	1,497	SY	SUBGRADE COMPACTION	
							5.18						5.18	209	15001	5.18	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN	4
	2.17												2.17	209	60201	2.17	STA	LINEAR GRADING, AS PER PLAN	4
								212.5					212.5	606	15050	212.5	FT	GUARDRAIL, TYPE MGS	
								4					4	606	26150	4	EACH	ANCHOR ASSEMBLY, MGS TYPE E	
								4					4	606	35002	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
								2					2	620	70000	2	EACH	DELINEATOR, MISC.: TYPE C	
								2					2	620	70000	2	EACH	DELINEATOR, MISC.: TYPE D	
												1	1	623	40520	1	EACH	RIGHT-OF-WAY MONUMENT, TYPE B	
LS													LS	SPECIAL	69071000	LS		ASBESTOS ABATEMENT: WORK INVOLVING ASBESTOS CONTAINING MATERIALS	3
																		EROSION CONTROL	
	1												1	659	00100	1	EACH	SOIL ANALYSIS TEST	
	388												388	659	00300	388	CY	TOPSOIL	
	3,498												3,498	659	00500	3,498	SY	SEEDING AND MULCHING, CLASS 1	
	175												175	659	14000	175	SY	REPAIR SEEDING AND MULCHING	
	175												175	659	15000	175	SY	INTER-SEEDING	
	0.5												0.5	659	20000	0.5	TON	COMMERCIAL FERTILIZER	
	0.74												0.74	659	31000	0.74	ACRE	LIME	
	19												19	659	35000	19	MGAL	WATER	
	8												8	659	40000	8	MSF	MOWING	
													LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
													LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
													LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
													39,720	832	30000	39,720	EACH	EROSION CONTROL	
																		DRAINAGE	
										370			370	601	32100	370	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
							92						92	605	31100	92	FT	AGGREGATE DRAINS	
	150												150	611	00900	150	FT	6" CONDUIT, TYPE B	
	50												50	611	01100	50	FT	6" CONDUIT, TYPE C	
	50												50	611	01400	50	FT	6" CONDUIT, TYPE E	
	50												50	611	01500	50	FT	6" CONDUIT, TYPE F	
	50												50	611	01800	50	FT	8" CONDUIT, TYPE B	
	50												50	611	02000	50	FT	8" CONDUIT, TYPE C	
																		PAVEMENT	
							267						267	254	01001	267	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN	4
							285						285	301	56000	285	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
							307						307	304	20000	307	CY	AGGREGATE BASE	
							269						269	407	20000	269	GAL	NON-TRACKING TACK COAT	
							103						103	441	70101	103	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), AS PER PLAN, PG70-22M	5
							15						15	441	70801	15	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	5
							73						73	609	24000	73	FT	CURB, TYPE 4-A	
	2												2	617	10101	2	CY	COMPACTED AGGREGATE, AS PER PLAN	4
							78						78	875	10000	78	LB	LONGITUDINAL JOINT ADHESIVE	
																		TRAFFIC CONTROL	
						16							16	626	00102	16	EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY)	
		12.5				25							37.5	630	02100	37.5	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
		1											1	630	80100	1	SF	SIGN, FLAT SHEET	
						4							4	630	84900	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
						2							2	630	85100	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	

GENERAL SUMMARY

DESIGN AGENCY
RIBWAY ENGINEERING GROUP, INC.
300 E. BROAD ST.
SUITE 500
COLUMBUS, OHIO 43215
PH. NO. (614) 221-6009
FAX NO. (614) 221-9089

DESIGNER: LI
REVIEWER: AE 04-22-26
PROJECT ID: 110999
SHEET 12 TOTAL 53

GEA-87-3.18

MODEL: Sheet_SurvPt PAPERSIZE: 34x22 (in.) DATE: 11/2/2026 TIME: 10:53:34 AM USER: DKiger
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SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
3	4	5	6	7	8	14	15	16	18	24	28	RW.2	01/STR						
						6							6	630	86002	6	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
						0.33							0.33	646	10010	0.33	MILE	EDGE LINE, 6"	
						0.17							0.17	646	10200	0.17	MILE	CENTER LINE	
						0.5							0.5	646	50300	0.5	MILE	REMOVAL OF PAVEMENT MARKING	
																		STRUCTURE OVER 20 FOOT SPAN (GEA-S.R. 87-03.18)	
											LS		LS	202	11003	LS		STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	27
											451		451	202	23500	451	SY	WEARING COURSE REMOVED	
											LS		LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
											136		136	503	21100	136	CY	UNCLASSIFIED EXCAVATION	
											LS		LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION	
											1,925		1,925	507	00100	1,925	FT	STEEL PILES HP10X42, FURNISHED	
											1,815		1,815	507	00150	1,815	FT	STEEL PILES HP10X42, DRIVEN	
											51,324		51,324	509	10000	51,324	LB	EPOXY COATED STEEL REINFORCEMENT	
											2,284		2,284	509	30020	2,284	FT	NO. 4 DEFORMED GFRP REINFORCEMENT	
											155		155	511	34446	155	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK	
											24		24	511	34450	24	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)	
											127		127	511	43510	127	CY	CLASS QC1 CONCRETE, ABUTMENT INCLUDING FOOTING	
											401		401	512	10100	401	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
											8		8	512	33000	8	SY	TYPE 2 WATERPROOFING	
											6		6	515	15070	6	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF36-49 (LENGTH 81'-4")	
											15		15	515	20000	15	EACH	INTERMEDIATE DIAPHRAGMS	
											88		88	516	13200	88	SF	1/2" PREFORMED EXPANSION JOINT FILLER	
											88		88	516	13600	88	SF	1" PREFORMED EXPANSION JOINT FILLER	
											54		54	516	13900	54	SF	2" PREFORMED EXPANSION JOINT FILLER	
											416		416	516	25000	416	SF	NYLON REINFORCED NEOPRENE SHEETING	
											12		12	516	44001	12	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN	34
											103		103	518	21200	103	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
											140		140	518	40000	140	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
											64		64	518	40010	64	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
											178		178	526	15000	178	SY	REINFORCED CONCRETE APPROACH SLABS (T=13")	
											80		80	526	90010	80	FT	TYPE A INSTALLATION	
											34		34	846	00110	34	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	
																		MAINTENANCE OF TRAFFIC	
				24									24	614	11110	24	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
					4								4	SPECIAL	61411300	4	EACH	WORK ZONE TRAFFIC SIGNAL	8
					6								6	614	12380	6	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	6
				5									5	614	12500	5	EACH	REPLACEMENT SIGN	
			45										45	614	13310	45	EACH	BARRIER REFLECTOR, TYPE 1, (BIDIRECTIONAL)	
			45										45	614	13360	45	EACH	OBJECT MARKER, TWO WAY	
				8									8	614	18601	8	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	7
					0.36								0.36	614	21200	0.36	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I	
					0.94								0.94	614	22200	0.94	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 740.06, TYPE I	
					48								48	614	26400	48	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I	
					159								159	615	20000	159	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
					1,720								1,720	622	41100	1,720	FT	PORTABLE BARRIER, UNANCHORED	
					370								370	622	41110	370	FT	PORTABLE BARRIER, ANCHORED	
			50										50	630	97800	50	SF	SIGNING, MISC.: ADDITIONAL SIGNS, GROUND MOUNTED, AS DIRECTED BY THE ENGINEER	6
																		INCIDENTALS	
													LS	614	11000	LS		MAINTAINING TRAFFIC	
4													4	619	16011	4	MNTH	FIELD OFFICE, TYPE B, AS PER PLAN	3
													LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
													LS	624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

GEA-87-3.18

MODEL: Sheet_Surf1 PAPERSIZE: 34x22 (in.) DATE: 11/5/2026 TIME: 1:50:35 PM USER: DKiger
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DESIGN AGENCY
RIBWAY ENGINEERING GROUP, INC.
300 E. BROAD ST.
SUITE 500
COLUMBUS, OHIO 43215
PH. NO. (614) 221-6009
FAX NO. (614) 221-9089

DESIGNER
LI

REVIEWER
AE 04-22-26

PROJECT ID
110999

SHEET 13 TOTAL 53

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

AS-1-15	*REVISED*	*01-20-23*
AS-2-15	*REVISED*	*07-21-23*
ICD-2-18	*REVISED*	*01-19-24*
PCB-91	*REVISED*	*07-17-20*
PSID-1-13	*REVISED*	*07-18-25*
SBR-1-20	*REVISED*	*07-19-24*

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 10TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2017 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

OPERATIONAL IMPORTANCE

A LOAD MODIFIER OF 1.0 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFDBRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN LOADING

HL-93
FUTURE WEARING SURFACE (FWS) 0.060 KSF

DESIGN DATA

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

EPOXY COATED REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI (DECK & BRIDGE RAILING)

GFRP REINFORCEMENT (BRIDGE RAILING)

CONCRETE FOR PRESTRESSED BEAMS:
COMPRESSIVE STRENGTH (FINAL) - 7.0 KSI
COMPRESSIVE STRENGTH (RELEASE) - 6.0 KSI

WELDED WIRE FABRIC:
YIELD STRENGTH - 70 KSI

PRESTRESSING STRAND: 270 KSI
AREA = 0.217 SQ. IN.
ULTIMATE STRENGTH = 270 KSI
INITIAL STRESS = 202.5 KSI (LOW RELAXATION STRANDS)

STEEL H-PILES - ASTM A572 - YIELD STRENGTH 50 KSI

STEEL SHEET PILING - ASTM A572 GRADE 50 - YIELD STRENGTH 50 KSI

DECK PROTECTION METHOD

EPOXY COATED REINFORCING STEEL
2½" CONCRETE COVER

MONOLITHIC WEARING SURFACE

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1" THICK.

PILES TO BEDROCK

DRIVE PILES TO REFUSAL ON BEDROCK. THE DEPARTMENT WILL CONSIDER REFUSAL TO BE OBTAINED WHEN THE PILE PENETRATION IS AN INCH OR LESS AFTER RECEIVING AT LEAST 20 BLOWS FROM THE PILE HAMMER. SELECT THE HAMMER SIZE TO ACHIEVE THE REQUIRED DEPTH TO BEDROCK AND REFUSAL. THE TOTAL FACTORED LOAD IS 160 KIPS PER PILE FOR THE ABUTMENT PILES. THE ABUTMENT PILES WERE DESIGNED TO ACCOMMODATE 8.47 FT. AT R.A. AND 6.21 FT. AT F.A. OF SCOUR.

REAR ABUTMENT PILES:
HP 10X42 PILES 85 FEET LONG, ORDER LENGTH

FORWARD ABUTMENT PILES:
HP 10X42 PILES 90 FEET LONG, ORDER LENGTH

DECK PLACEMENT DESIGN ASSUMPTIONS

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM LOAD OF 0.95 KIPS FOR A TOTAL MACHINE LOAD OF 7.6 KIPS.

A MINIMUM OUT-TO OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103".

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 IN.

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65".

ITEM 503 - COFFERDAMS AND EXCAVATION BRACING

THE CONTRACTOR IS RESPONSIBLE FOR DESIGN OF TEMPORARY SUPPORT OF EXCAVATION THAT SHALL BE USED TO CONSTRUCT THE PROJECT. THE APPROXIMATE LOCATION OF SOME SHEETING IS SHOWN ON THE PLANS. THE DEPARTMENT WILL PAY FOR THE TEMPORARY SUPPORT OF EXCAVATION AT THE CONTRACT LUMP SUM PRICE FOR COFFERDAMS AND EXCAVATION BRACING.

MECHANICAL CONNECTORS

AN APPROVED TYPE OF MECHANICAL CONNECTOR FOR REINFORCING BARS SHALL BE PROVIDED. INSTALLATION OF CONNECTORS SHALL CONFORM TO MANUFACTURER'S RECOMMENDED PROCEDURES.

CONNECTORS USED WITH EPOXY COATED BARS SHALL BE EPOXY COATED. COATING FOR BOTH CONNECTORS AND BARS SHALL CONFORM TO THE SAME SPECIFICATIONS. COATING WHICH HAVE BEEN DAMAGED OR WHICH OTHERWISE DO NOT MEET SPECIFICATIONS WITH RESPECT TO COLOR, CONTINUITY AND UNIFORMITY SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER OR THEY SHALL BE REPLACED WITH MATERIAL THAT MEETS THE SPECIFICATIONS.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM EXISTING PLANS, FIELD SURVEY OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05 AND 105.02. IN ADDITION, THE FABRICATOR IS REQUIRED TO ABIDE BY CMS SECTION 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

ITEM 202 - STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

THIS ITEM SHALL INCLUDE THE ELEMENTS INDICATED IN THE PLANS AND GENERAL NOTES AND THAT ARE NOT SEPARATELY LISTED FOR PAYMENT, EXCEPT FOR WEARING COURSE REMOVAL. ITEMS TO BE REMOVED INCLUDE ALL EXISTING MATERIALS BEING REPLACED BY NEW CONSTRUCTION AND MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER. THE DEPARTMENT WILL NOT PERMIT THE USE OF EXPLOSIVES AND HEADACHE BALLS. THE USE OF HOE-RAMS SHALL BE APPROVED BY THE ENGINEER. PROVIDE FULL DEPTH SAWCUT AT REMOVAL LIMIT BETWEEN PHASE 1 AND PHASE 2 PRIOR TO USE OF PNEUMATIC HAMMERS OR OTHER HEAVY EQUIPMENT FOR PHASE 1 CONCRETE REMOVAL. THE USE OF HOE-RAMS AND OTHER HEAVY EQUIPMENT SHALL NOT BE PERMITTED WITHIN 3'-0" OF THE PORTION OF THE STRUCTURE THAT IS RETAINED FOR PHASE 1 MAINTENANCE OF TRAFFIC. DO NOT BEGIN WORK UNTIL THE ENGINEER ACCEPTS THE METHOD OF REMOVAL AND THE WEIGHT OF HAMMER SHALL BE APPROVED BY THE ENGINEER. PERFORM ALL WORK IN A MANNER THAT WILL NOT CUT, ELONGATE OR DAMAGE THE EXISTING CONCRETE REINFORCEMENT TO BE PRESERVED. CHIPPING HAMMERS SHALL NOT BE HEAVIER THAN THE NOMINAL 90-POUND CLASS. PNEUMATIC HAMMERS SHALL NOT BE PLACED IN DIRECT CONTACT WITH CONCRETE REINFORCEMENT THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05.

SCOUR ELEVATIONS

THE DESIGN FLOOD AND CHECK FLOOD SCOUR ELEVATIONS ARE PROVIDED BELOW:

	REAR ABUTMENT	*FORWARD ABUTMENT*
DESIGN FLOOD	*1021.83*	*1024.32*
CHECK FLOOD	*1021.11*	*1023.62*

ABBREVIATIONS

ABUT. - ABUTMENT
A.S. - APPROACH SLAB
BRG. - BEARING
C/C - CENTER TO CENTER
C.J. - CONSTRUCTION JOINT
C.I.P. - CAST-IN-PLACE
CONC. - CONCRETE
CONST. - CONSTRUCTION
DIA. - DIAMETER
EL. - ELEVATION
EX. - EXISTING
EX. SH - STANDARD HIGHWAY EASEMENT
EX. U - EXISTING UTILITY BASEMENT
EXP. - EXPANSION
F.A. - FORWARD ABUTMENT
F/F - FACE TO FACE
FWD. - FORWARD
IN. - INCH
IN-BET. - IN-BETWEEN
INCR. - INCREMENT
JNT. - JOINT
L.F. - LEFT FORWARD
LT. - LEFT
MID. - MIDDLE
MIN. - MINIMUM
NB - NORTHBOUND
NO. - NUMBER
NPCPP - NON-PERFORATED CORRUGATED PLASTIC PIPE
PCB - PORTABLE CONCRETE BARRIER
PCPP - PERFORATED CORRUGATED PLASTIC PIPE
PEJF - PREFORMED EXPANSION JOINT FILLER
P.P. - POWER POLE
PPT. - PARAPET
PRESS. - PRESSURE
PROP. - PROPOSED
R.A. - REAR ABUTMENT
REQ'D - REQUIRED
RT. - RIGHT
SB - SOUTHBOUND
SPA. - SPACES
STA. - STATION
STR. - STRAIGHT
SUPER. - SUPERSTRUCTURE
TBR - TO BE REMOVED
T/T - TOE TO TOE
TYP. - TYPICAL
VERT. - VERTICAL
U.N.O. - UNLESS NOTED OTHERWISE
W/ - WITH

BRIDGE GENERAL NOTES AND ESTIMATED QUANTITIES
BRIDGE NO. GEA-87-3.18
OVER SILVER CREEK

SFN 2800668

DESIGN AGENCY
RIBWAY ENGINEERING GROUP, INC.
300 E. BROAD ST.
SUITE 500
COLUMBUS, OHIO 43215
PH. NO. (614) 221-6009
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DESIGNER	CHECKER
PA	JC

REVIEWER: AE 04-22-26

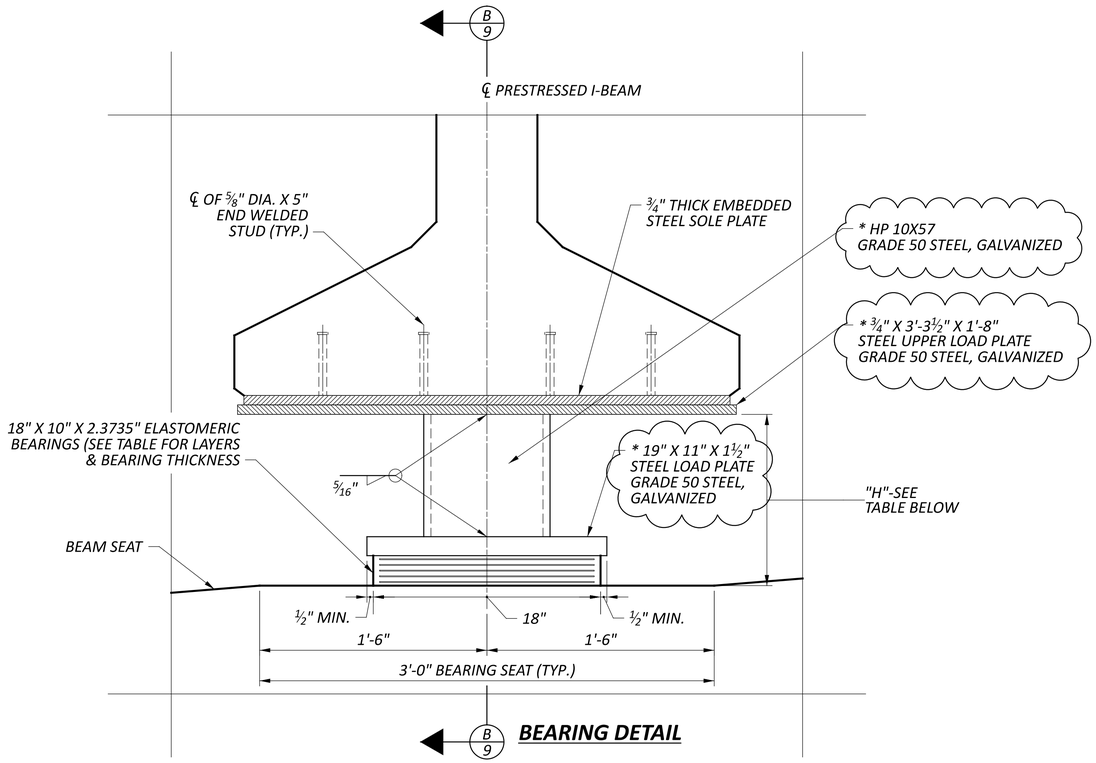
PROJECT ID 110999

SUBSET	TOTAL
2	16

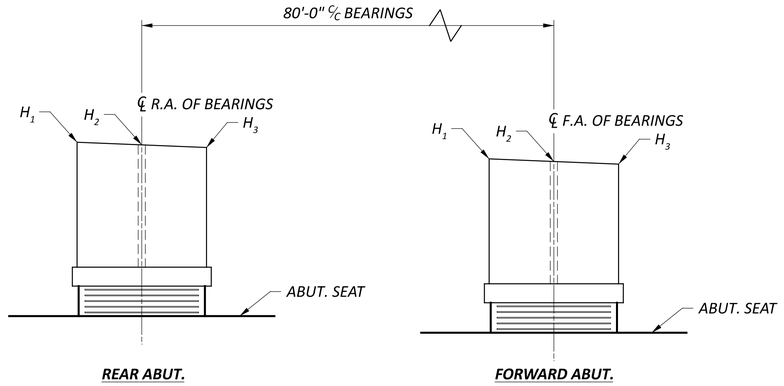
SHEET	TOTAL
27	53

GEA-87-3.18

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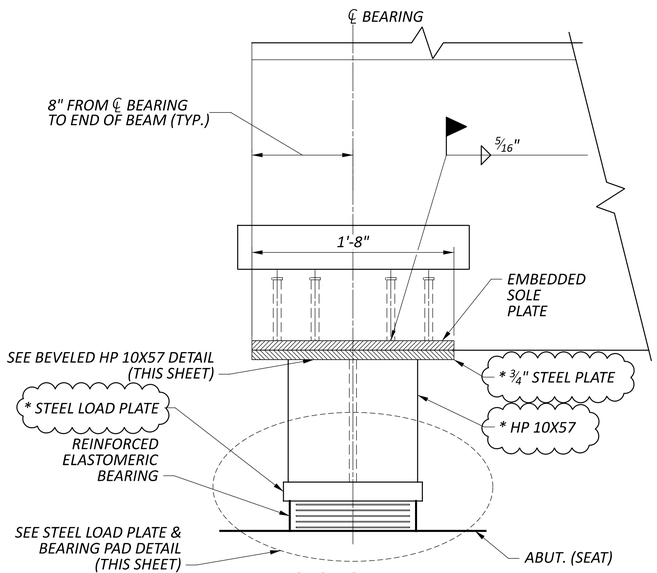


BEARING DETAIL

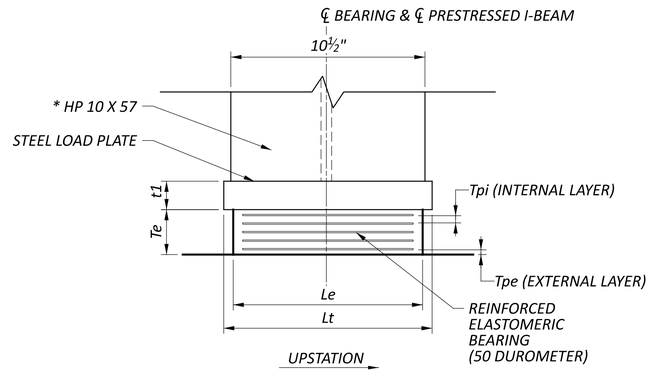


BEARING ASSEMBLY HEIGHT "H" REAR & FORWARD ABUTMENTS	
H_1	1.146'
H_2	1.130'
H_3	1.115'

BEVELED HP 10X57 DETAIL



SECTION B-B



STEEL LOAD PLATE & BEARING PAD DETAIL

BEARING LOCATION	BEARING TYPE	NO. REQ'D	UNFACTORED LOADS			Le (INCHES)	We (INCHES)	Tpi (INCHES)	NO. OF Tpi'S	Tpe (INCHES)	NUMBER OF INTERNAL STEEL LAMINATES (14 GAGE)	Te (INCHES)	STEEL LOAD PLATE			
			DEAD LOAD (KIPS)	LIVE LOAD (KIPS)	TOTAL LOAD (DL * LL) (KIPS)								Lt (INCHES)	Wt (INCHES)	t1 (INCHES)	
REAR ABUTMENT	REINFORCED ELASTOMERIC	6	95.80	84.60	180.40	10	18	0.375	4	0.25	5	2.3735	11	19	1½	
FORWARD ABUTMENT	REINFORCED ELASTOMERIC	6	95.80	84.60	180.40	10	18	0.375	4	0.25	5	2.3735	11	19	1½	

NOTES AND LEGEND

* HP 10X57 AND UPPER & LOWER LOAD PLATES INDICATED ARE GRADE 50 STEEL, GALVANIZED AND WILL BE INCLUDED WITH LAMINATED ELASTOMERIC BEARING PADS FOR PAYMENT.

ELASTOMERIC BEARINGS

1. THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER THE BEARINGS WERE DESIGNED IN ACCORDANCE WITH SECTION 14.7.6 (METHOD A) OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. THE LONG-TERM COMPRESSION PROOF LOAD TEST(AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6) IS NOT REQUIRED.

   VULCANIZE THE STEEL LOWER LOAD PLATE TO THE ELASTOMER DURING THE MOLDING PROCESS.

   UPPER & LOWER LOAD PLATES AND HP SHAPES SHALL BE CONSIDERED COMPONENTS OF THE ELASTOMERIC BEARING ASSEMBLY FOR PAYMENT. THE ¾" THICK EMBEDDED STEEL SOLE PLATE IS INCIDENTAL TO THE COST OF THE I-BEAMS.

2. ALL BEARINGS SHALL BE MARKED PRIOR TO SHIPPING. THE MARK SHALL INCLUDE THE BEARING LOCATION AND DIRECTIONAL ARROW POINTING UP STATION. ALL MARKS SHALL BE PERMANENT AND BE VISIBLE AFTER THE BEARING IS INSALLED.

3. CONTROL WELDING SO THAT THE PLATE TEMPERATURE AT THE ELASTOMER BONDED SURFACE DOES NOT EXCEED 300°F AS DETERMINED BY THE USE OF PYROMETRIC STICKS OR OTHER TEMPERATURE MONITORING DEVICES.

4. THE UNIT PRICE FOR BEARINGS SHALL INCLUDE ALL MATERIALS,LABOR, TESTING, HP SHAPES AND INCIDENTALS NECESSARY TO FURNISH AND INSTALL LAMINATED ELASTOMERIC BEARINGS. PAYMENT SHALL BE MADE AT THE CONTRACT PRICE FOR ITEM 516, EACH, ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE, (NEOPRENE), AS PER PLAN.

SUPERSTRUCTURE DETAILS - BEARING & SEAT DETAILS
BRIDGE NO. GEA-87-3.18
OVER SILVER CREEK

SFN 2800668

DESIGN AGENCY
RIBWAY ENGINEERING GROUP, INC.
300 E. BROAD ST.
SUITE 500
COLUMBUS, OHIO 43215
PH. NO. (614) 221-6009
FAX NO. (614) 221-9089

DESIGNER	CHECKER
PA	AE/JC

REVIEWER AE 04-22-26

PROJECT ID 110999

SUBSET	TOTAL
9	16

SHEET	TOTAL
34	53

GEA-87-3.18

MODEL: Sheet_SurvPt PAPERSIZE: 34x22 (in.) DATE: 11/5/2026 TIME: 2:08:00 PM USER: DKiger
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