

REMOVAL OF EXISTING RUMBLE STRIPES

THE CONTRACTOR SHALL MILL 1 INCH BY 2 FEET WIDE OF THE EXISTING PAVEMENT IN ORDER TO REMOVE THE EXISTING RUMBLE STRIPES ALONG THE S.R. 73 LEFT EDGE LINE AND CENTER LINE IN THE AREA WHERE TRAFFIC IS SHIFTED AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL THEN COAT ALL MILLED SURFACES HORIZONTAL AND VERTICAL WITH APPROVED AC LIQUID. NEXT THE CONTRACTOR SHALL PLACE 1" OF ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR THE REMOVAL OF EXISTING RUMBLE STRIPES AND THE INSTALLATION OF PROPOSED RUMBLE STRIPES:

ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE (1")	<u>354</u> SY
ITEM 442, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	<u>10</u> CY
ITEM 407, TACK COAT	<u>32</u> GAL
ITEM 618, RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	<u>251</u> FT
ITEM 618, RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)	<u>358</u> FT

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUB-BASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

OVER NIGHT TRENCH CLOSING

THE BASE WIDENING SHALL BE COMPLETED TO A DEPTH OF NO MORE THAN 1½ INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT EXCEPT FOR A SHORT LENGTH (25 FEET OR LESS) OF A WORK SECTION AT THE END OF THE TRENCH. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY.

EXCAVATION FOR MAINTAINING TRAFFIC	35 CU. YD.
EMBANKMENT FOR MAINTAINING TRAFFIC	35 CU. YD.

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION SHOULD BE CONSIDERED TO DETERMINE IF THE EXISTING SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE TEMPORARY ROAD. ADDITIONAL SOIL BORINGS ALONG THE TEMPORARY ROAD ARE NOT NORMALLY REQUIRED.

TEMPORARY PAVEMENT SHALL BE REMOVED UPON COMPLETION OF ALL PHASE 2 WORK. REPLACE WITH EMBANKMENT AS PER CMS 615.03. CONTRACTOR SHALL NOT DISTURB THE GRADING OUTSIDE OF THE TEMPORARY PAVEMENT REMOVAL LIMITS.

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 615, ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN, LUMP SUM.

ITEM 614, WORK ZONE MARKINGS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE BETWEEN THE COMPLETION OF ALL PHASE 2 WORK AND THE PLACEMENT OF THE FINAL ASPHALT SURFACE COURSE AT LOCATIONS IDENTITFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS PER THE REQUIREMENTS OF C&MS 614.11.

ITEM 614, WORK ZONE CENTER LINE, CLASS I	<u>0.20</u> MILE
ITEM 614, WORK ZONE EDGE LINE, CLASS I, 6"	<u>0.29</u> MILE

MODEL: Sheet PAPER:SIZE: 34x22 (in.) DATE: 10/24/2025 TIME: 8:57:02 AM USER: jperchinski
P:\Transportation\Works\Seals\117406_VAR-D09_Genl Eng Servs FY 23-24\409-Engineering_HIG-73-0.30\Roadway\Sheets\105111_GG001.dgn

SHEET NUM.													PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.6	P.7	P.8	P.9		P.16		P.31		P.33		RW.3	OFFICE CALCS	01/STR						
LS													LS	201	11000	LS		ROADWAY	
												1,611	1,611	202	23000	1,611	SY	PAVEMENT REMOVED	
					207								207	202	35100	207	FT	PIPE REMOVED, 24" DIAMETER AND UNDER	
					8								8	202	75000	8	FT	FENCE REMOVED	
					LS								LS	202	98000	LS		REMOVAL MISC.: CONCRETE RETAINING WALL	P.6
							446						446	203	10000	446	CY	EXCAVATION	
							721						721	203	20000	721	CY	EMBANKMENT	
					199							2,352	2,551	204	10000	2,551	SY	SUBGRADE COMPACTION	
2													2	204	45000	2	HOURL	PROOF ROLLING	
					275								275	606	15050	275	FT	GUARDRAIL, TYPE MGS	
					2								2	606	26150	2	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	
					2								2	606	26550	2	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
					4								4	606	34600	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2	
											1		1	623	38500	1	EACH	MONUMENT ASSEMBLY, TYPE C	
											3		3	623	40520	3	EACH	RIGHT-OF-WAY MONUMENT, TYPE B	
					2								2	SPECIAL	69050350	2	EACH	MAILBOX REMOVED AND RESET	P.6
																		EROSION CONTROL	
					81								81	601	32104	81	CY	ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC	
302					69								371	659	00300	371	CY	TOPSOIL	
2,717													2,717	659	10000	2,717	SY	SEEDING AND MULCHING	
136													136	659	14000	136	SY	REPAIR SEEDING AND MULCHING	
													0.37	659	20000	0.37	TON	COMMERCIAL FERTILIZER	
0.37													0.56	659	31000	0.56	ACRE	LIME	
0.56													15	659	35000	15	MGAL	WATER	
15													623	670	00500	623	SY	SLOPE EROSION PROTECTION	
					623								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	
													16,309	832	30000	16,309	EACH	EROSION CONTROL	
																		DRAINAGE	
	244												244	605	31100	244	FT	AGGREGATE DRAINS	
30													30	611	01400	30	FT	6" CONDUIT, TYPE E	
30													30	611	01500	30	FT	6" CONDUIT, TYPE F	
					136								136	611	04900	136	FT	12" CONDUIT, TYPE D	
					2								2	611	98470	2	EACH	CATCH BASIN, NO. 2-2B	
					1								1	611	98630	1	EACH	CATCH BASIN ADJUSTED TO GRADE	
																		PAVEMENT	
					354								354	254	01000	354	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1")	
													135	254	01000	135	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1.5")	
													510	301	56000	510	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
													389	430	20000	430	CY	AGGREGATE BASE	
					32								370	402	10000	402	GAL	TACK COAT	
			25										25	410	12000	25	CY	TRAFFIC COMPACTED SURFACE, TYPE A OR B	
			25										25	410	13000	25	CY	TRAFFIC COMPACTED SURFACE, TYPE C	
				10									170	441	70000	180	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22	
													3	441	70500	3	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), (DRIVEWAYS)	
																		TRAFFIC CONTROL	
					251								1,089	618	40800	1,089	FT	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	
					358								842	618	40900	842	FT	RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)	
													8	621	00100	8	EACH	RPM	
													8	621	54000	8	EACH	RAISED PAVEMENT MARKER REMOVED	
													12	626	00112	12	EACH	BARRIER REFLECTOR, TYPE 3 (BI-DIRECTIONAL)	
													36.4	630	03100	36.4	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
													1	630	08600	1	EACH	SIGN POST REFLECTOR	
													27	630	80100	27	SF	SIGN, FLAT SHEET	

GENERAL SUMMARY

DESIGN AGENCY



5560 WILCOX PLACE, SUITE C
DUBLIN, OHIO 43016

DESIGNER

CAW

REVIEWER

RG 07/28/25

PROJECT ID

105111

SHEET

P.14

TOTAL

65

GENERAL SUMMARY

STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:
REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

AS-1-15	DATED REVISED	01/20/2023
AS-2-15	DATED REVISED	07/21/2023
DS-1-92	DATED REVISED	07/15/2022
GSD-1-19	DATED REVISED	07/19/2024
PCB-91	DATED REVISED	07/17/2020
SICD-1-21	DATED REVISED	01/19/2024
SICD-2-14	DATED REVISED	01/15/2021
TST-2-21	DATED REVISED	01/17/2025

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

SS800	DATED	07/18/2025
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DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO THE 9TH EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATIONS OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 9TH EDITION, 2020, 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 LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

DESIGN LOADING:

DESIGN LOADING INCLUDES:

VEHICULAR LIVE LOAD : HL-93

FUTURE WEARING SURFACE (FWS) OF 0.06 KIPS/ SQ. FT.

DESIGN DATA:

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

CONCRETE CLASS QC5, WITH 3/8" - IN MAX. AGGREGATE SIZE - COMPRESSIVE STRENGTH 4.5 KSI (DRILLED SHAFT)

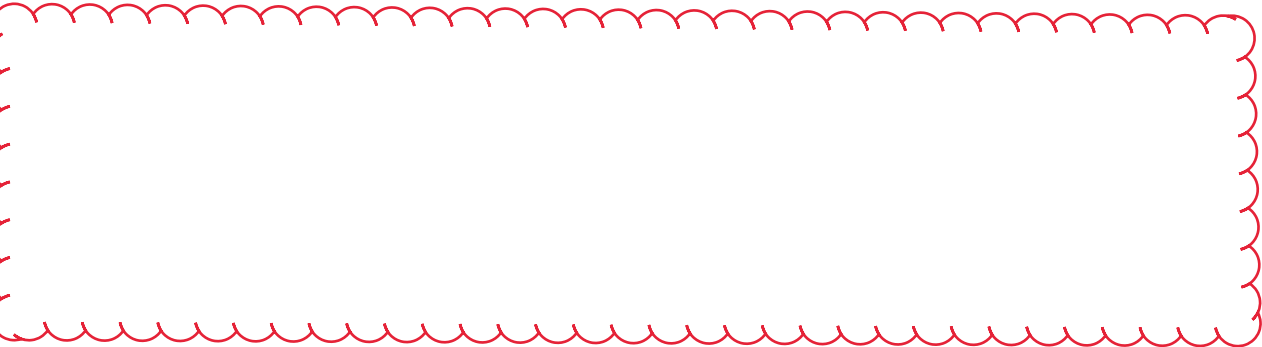
REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

STRUCTURAL STEEL - ASTM A709 GRADE 50 - YIELD STRENGTH 50 KSI

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

MONOLITHIC WEARING SURFACE:

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



ROCK - SOCKETED DRILLED SHAFTS

ROCK-SOCKETED DRILLED SHAFTS: THE MAXIMUM FACTORED LOAD TO BE SUPPORTED BY EACH DRILLED SHAFT IS 169 KIPS AT THE ABUTMENTS. AT THE ABUTMENT, THE FACTORED TIP RESISTANCE IS 1,250 KIPS.

EXISTING STRUCTURE VERIFICATION:

DETAIL AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES 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 C&MS SECTIONS 102.05, 105.02 AND 513.04. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURES. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

ITEM 513 - COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN:

THE DESIGN SHOWN ON THE PLANS FOR TEMPORARY SUPPORT OF EXCAVATION IS ONE REPRESENTATIVE DESIGN THAT MAY BE USED TO CONSTRUCT THE PROJECT. THE CONTRACTOR MAY CONSTRUCT THE DESIGN SHOWN ON THE PLANS OR PREPARE AN ALTERNATE DESIGN TO SUPPORT THE SIDES OF EXCAVATIONS. IF CONSTRUCTING AN ALTERNATE DESIGN FOR TEMPORARY SUPPOT OF EXCAVATION, PREPARE AND PROVIDE PLANS IN ACCORDANCE WITH C&MS 501.05. THE DEPARTMENT WILL PAY FOR THE TEMPORARY SUPPORT OF EXCAVATION AT THE CONTRACT LUMP SUM PRICE FOR COFFERDAMS AND EXCAVATION BRACING. THE DEPARTMENT WILL NOT MAKE ADDITIONAL PAYMENT FOR PROVIDING AN ALTERNATE DESIGN.

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 FALSE 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 WHEEL LOAD OF 2.2 KIPS.

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

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 IN.

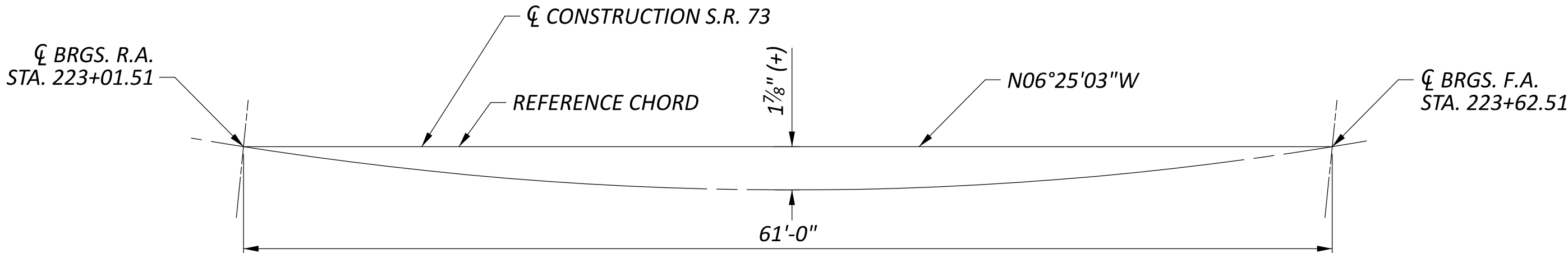
ITEM 513 - STRUCTURAL STEEL, LEVEL 1, AS PER PLAN:

IN ADDITION TO ALL REQUIREMENTS OF C&MS 513, THE STEEL BEAMS AND CROSSFRAMES SHALL ALSO BE GALVANIZED PER C&MS 711.02. ALL EQUIPMENT, LABOR, AND MATERIALS REQUIRED FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO ITEM 513-STRUCTURAL STEEL, LEVEL 1, AS PER PLAN.

ABBREVIATIONS:

ABUT. - ABUTMENT
ADT - AVERAGE DAILY TRAFFIC
ADTT - AVERAGE DAILY TRUCK TRAFFIC
APPR. - APPROACH
B - BOTTOM
BM - BENCHMARK
BOT. OR BTM. - BOTTOM
BRGS. - BEARINGS
CL - CENTERLINE
C/C - CENTER TO CENTER
C.J. - CONSTRUCTION JOINT
CLR. - CLEAR
CMS - CONSTRUCTION AND MATERIAL SPECIFICATIONS
CONC. - CONCRETE
CONSTR. - CONSTRUCTION
DIA. - DIAMETER
DIM. - DIMENSION
DWG. - DRAWING
E.F. - EACH FACE
EL. OR ELEV. - ELEVATION
E/P - EDGE OF PAVEMENT
EQ. - EQUAL
EST. - ESTIMATED
EX. - EXISTING
F.A. - FORWARD ABUTMENT
F/F - FACE TO FACE
F.F. - FAR FACE
FT. - FOOT OR FEET
FWD. - FORWARD
HW - HIGH WATER
IN. - INCH
INT. - INTEGRAL
JT. - JOINT
LT. - LEFT
MAX. - MAXIMUM
MIN. - MINIMUM
MISC. - MISCELLANEOUS

N.F - NEAR FACE
NO. - NUMBER
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
PG - PROFILE GRADE
PROP. - PROPOSED
PSF - POUNDS PER SQUARE FOOT
P.V.I. - POINT OF VERTICAL INTERSECTION
Q - FLOW RATE
R - RADIUS
R.A. - REAR ABUTMENT
RCP - ROCK CHANNEL PROTECTION
REQD. - REQUIRED
RT. - RIGHT
R/W - RIGHT OF WAY
SER. - SERIES
SHLDR - SHOULDER
SPA. - SPACE OR SPACES
STA. - STATION
STD. - STANDARD
STR - STRAIGHT
T - TOP
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



REFERENCE CHORD LAYOUT

ESTIMATED QUANTITIES					CALCULATED BY: GA		CHECKED BY: SRB	
					DATE: 09/27/24		DATE: 02/13/25	
ITEM	ITEM EXT.	TOTAL	UNITS	DESCRIPTION	STRUCTURE FILE NUMBER 3601537			
					ABUTS.	SUPER.	GENERAL	SHT. REF.
202	11202	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN			LS	
202	22900	94	SY	APPROACH SLAB REMOVED			94	
202	23500	265	SY	WEARING COURSE REMOVED			265	
503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN			LS	2
503	21300	LS	CY	UNCLASSIFIED EXCAVATION			LS	
503	31100	85	CY	ROCK EXCAVATION			85	
509	10000	38585	LB	EPOXY COATED STEEL REINFORCEMENT	14306	24279		
511	33500	2	EA	SEMI-INTEGRAL DIAPHRAGM GUIDE	2			
511	34446	105	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK		105		
511	44112	92	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT NOT INCLUDING FOOTING	92			
511	46512	75	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	75			
512	10100	167	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	137	30		
512	10300	20	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN		20		
512	33000	33	SY	TYPE 2 WATERPROOFING	33			
513	10221	71028	LB	STRUCTURAL STEEL MEMBERS, LEVEL 1, AS PER PLAN		71028		2
513	20000	2664	EA	WELDED STUD SHEAR CONNECTORS		2664		
516	13900	54	SF	2" PREFORMED EXPANSION JOINT FILLER	54			
516	14020	118	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	118			
516	44001	12	EA	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (14" WIDE X 12" LONG X 1.92" THICK), AS PER PLAN		12		
517	70100	134	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)		134		
518	21200	79	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC			79	
518	22300	147	FT	SPECIAL - STEEL DRIP STRIP		147		
518	40000	168	FT	6" PERFORATED CORRUGATED PLASTIC PIPE			168	
518	40011	40	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE INCLUDING SPECIALS			40	
524	94604	160	FT	DRILLED SHAFTS, 30" DIAMETER, INTO BEDROCK	160			
524	94704	9	FT	DRILLED SHAFTS, 36" DIAMETER, INTO BEDROCK	9			
526	25010	200	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")			200	
526	90010	88	FT	TYPE A INSTALLATION			88	
625	33000	1	EA	STRUCTURE GROUNDING SYSTEM			1	

NOTE: ROCK CHANNEL PROTECTION AND PORTABLE BARRIER QUANTITIES CARRIED WITH ROADWAY PLANS.

ESTIMATED QUANTITIES
BRIDGE NO. HIG-00073-00.300
S.R. 73 OVER EAST FORK LITTLE MIAMI RIVER

SFN
3601537

DESIGN AGENCY

www.bgengr.com
5960 WILCOX PLACE SUITE C
DUBLIN, OHIO 43016

DESIGNER
SRB

CHECKER
GA

REVIEWER
GTB 02/14/25

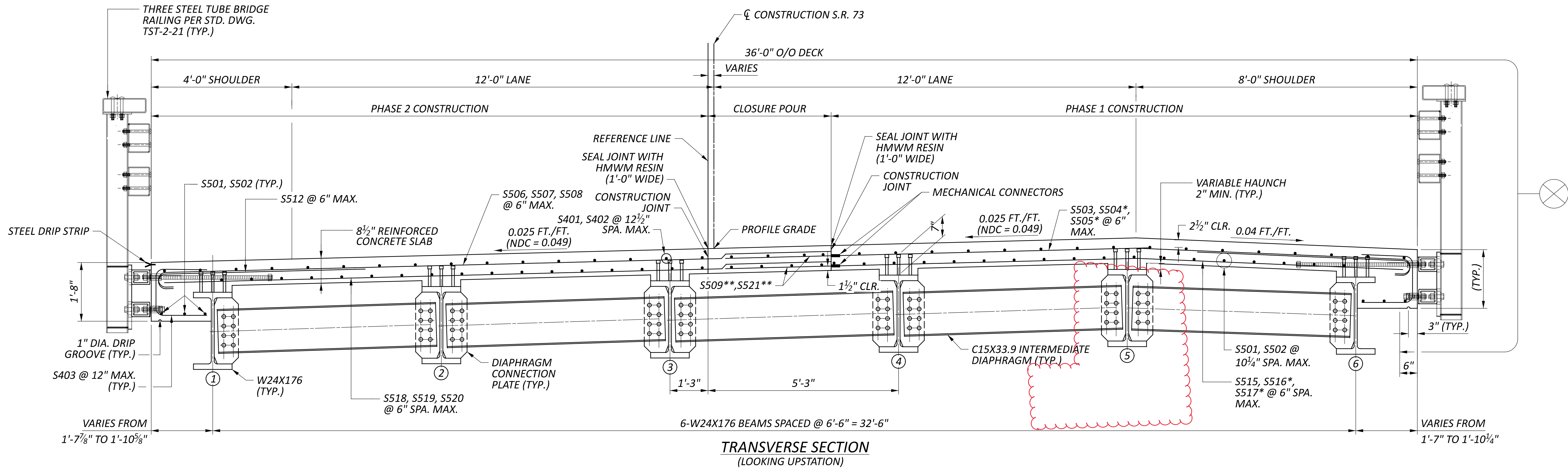
PROJECT ID
105111

SUBSET
3

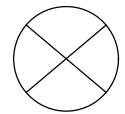
TOTAL
26

SHEET
P.37

TOTAL
65



MIN. LAP LENGTHS	
NO. 4 BARS	1'-11"
NO. 5 BARS	3'-0"

LEGEND:

- SEALING OF CONCRETE SURFACES (EPOXY - URETHANE)



- BEAM LINE DESIGNATION

NOTES:

- DECK SLAB CONCRETE QUANTITY: THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH BEAM HAUNCH. THE ESTIMATE ASSUMES A CONSTANT HAUNCH THICKNESS OF 3.50 INCHES AND A HAUNCH WIDTH EQUAL TO THE TOP FLANGE WIDTH. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE.

THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE BEAM, FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB THICKNESS. THE AREA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH 511.23
 - FOR ADDITIONAL STEEL DETAILS, SEE STANDARD DRAWING GSD-1-19.
 - THE DIAPHRAGM CONNECTIONS BETWEEN BEAMS 3 AND 4 SHALL NOT BE PERMANENTLY ATTACHED UNTIL AFTER THE PHASE 2 DECK POUR IS COMPLETE.
- * SEE SHEET 26 OF 26 FOR NOTE REGARDING PHASE 1 BAR UTILIZING MECHANICAL CONNECTORS.
- ** SEE SHEET 26 OF 26 FOR NOTE REGARDING PHASE 2 BAR UTILIZING MECHANICAL CONNECTORS.

TRANSVERSE SECTION
BRIDGE NO. HIG-00073-00.300
S.R. 73 OVER EAST FORK LITTLE MIAMI RIVER

SFN

3601537

DESIGN AGENCY

www.bgggroup.com

5960 WILCOX PLACE SUITE C

DUBLIN, OHIO 43016

BG

DESIGNER

MS/CW

CHECKER

GA

REVIEWER

GTB 02/14/25

PROJECT ID

105111

SUBSET

19

TOTAL

26

SHEET

P.53

TOTAL

65

MARK	MAT'RL TYPE	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS						
		REAR	FWD.	TOTAL				A	B	C	D	E	R	INC
REAR ABUTMENT (60 KSI, EPOXY COATED)														
AR501	ECSR	69		69	13'-2"	948	3	3'-8"	2'-7"					
AR502*	ECSR	3		3	42'-11"	134	STR							
AR503*	ECSR	3		3	40'-4"	126	STR							
AR504	ECSR	3		3	40'-4"	126	STR							
AR505	ECSR	3		3	42'-10"	134	STR							
AR506**	ECSR	14		14	3'-1"	45	STR							
AR507*	ECSR	8		8	21'-6"	179	STR							
AR508	ECSR	8		8	25'-4"	211	STR							
AR509	ECSR	10		10	20'-1"	209	STR							
AR510	ECSR	10		10	23'-7"	246	STR							
AR511	ECSR	9		9	16'-9"	157	2	7'-5"	2'-2"	7'-5"				
AR512	ECSR	48		48	10'-5"	522	2	4'-0"	2'-8"	4'-0"				
AR513	ECSR	1 SER. OF 9		1 SER. OF 9	8'-9" TO 14'-9"	110	2	3'-5" TO 6'-5"	2'-2"	3'-5" TO 6'-5"				Incr A = 4 1/2" Incr C = 4 1/2"
AR514	ECSR	1 SER. OF 4		1 SER. OF 4	13'-1" TO 15'-5"	59	2	5'-7" TO 6'-9"	2'-2"	5'-7" TO 6'-9"				Incr A = 4 5/8" Incr C = 4 5/8"
AR515	ECSR	1 SER. OF 10		1 SER. OF 10	9'-5" TO 15'-11"	132	2	3'-9" TO 7'-0"	2'-2"	3'-9" TO 7'-0"				Incr A = 4 3/8" Incr C = 4 3/8"
AR516	ECSR	1 SER. OF 5		1 SER. OF 5	13'-1" TO 15'-11"	76	2	5'-7" TO 7'-0"	2'-2"	5'-7" TO 7'-0"				Incr A = 4 1/4" Incr C = 4 1/4"
AR517	ECSR	1 SER. OF 5		1 SER. OF 5	8'-2" TO 15'-6"	62	STR							1'-10"
AR518	ECSR	1 SER. OF 5		1 SER. OF 5	6'-8" TO 14'-0"	54	STR							1'-10"
AR519	ECSR	1 SER. OF 4		1 SER. OF 4	3'-2" TO 11'-2"	30	STR							2'-8"
AR520	ECSR	1 SER. OF 4		1 SER. OF 4	4'-8" TO 12'-8"	36	STR							2'-8"
AR521	ECSR	1		1	15'-11"	17	19	13'-9"	2'-1"	9"				
AR522	ECSR	1		1	17'-5"	18	19	13'-9"	3'-5"	1'-4"				
AR523	ECSR	1		1	21'-1"	22	19	15'-8"	5'-1"	1'-11"				
AR524	ECSR	1		1	19'-7"	20	19	15'-8"	3'-8"	1'-4"				
AR525	ECSR	2		2	12'-4"	26	3	3'-3"	2'-7"					
AR601	ECSR	48		48	15'-10"	1,142	2	6'-9"	2'-8"	6'-9"				
AR602	ECSR	28		28	15'-4"	645	2	6'-9"	2'-2"	6'-9"				
AR801*	ECSR	1 SER. OF 4		1 SER. OF 4	40'-4" TO 42'-11"	445	STR							10 3⁄8"
AR802	ECSR	1 SER. OF 4		1 SER. OF 4	40'-4" TO 42'-10"	444	STR							10"
AR803**	ECSR	8		8	5'-4"	114	STR							
AR804*	ECSR	4		4	21'-6"	230	STR							
AR805	ECSR	4		4	25'-4"	271	STR							
SUBTOTAL						6,990								

MARK	MAT'RL TYPE	NUMBER			LENGTH	WEIGHT	TYPE	DIMENSIONS						
		REAR	FWD.	TOTAL				A	B	C	D	E	R	INC
FORWARD ABUTMENT (60 KSI, EPOXY COATED)														
AF501	ECSR		75	75	13'-2"	1,030	3	3'-8"	2'-7"					
AF502	ECSR		3	3	45'-1"	141	STR							
AF503	ECSR		3	3	42'-7"	133	STR							
AF504*	ECSR		3	3	38'-8"	121	STR							
AF505*	ECSR		3	3	41'-2"	129	STR							
AF506**	ECSR		14	14	3'-1"	45	STR							
AF507*	ECSR		8	8	21'-11"	183	STR							
AF508	ECSR		8	8	25'-8"	214	STR							
AF509	ECSR		10	10	22'-0"	229	STR							
AF510	ECSR		10	10	21'-10"	228	STR							
AF511	ECSR		9	9	16'-9"	157	2	7'-5"	2'-2"	7'-5"				
AF512	ECSR		50	50	11'-5"	595	2	4'-6"	2'-8"	4'-6"				
AF513	ECSR		1 SER. OF 10	1 SER. OF 10	9'-5" TO 16'-7"	136	2	3'-9" TO 7'-4"	2'-2"	3'-9" TO 7'-4"				Incr A = 4 3/4" Incr C = 4 3/4"
AF514	ECSR		1 SER. OF 5	1 SER. OF 5	13'-7" TO 16'-7"	79	2	5'-10" TO 7'-4"	2'-2"	5'-10" TO 7'-4"				Incr A = 4 1/2" Incr C = 4 1/2"
AF515	ECSR		1 SER. OF 8	1 SER. OF 8	10'-5" TO 15'-3"	107	2	4'-3" TO 6'-8"	2'-2"	4'-3" TO 6'-8"				Incr A = 4 1/8" Incr C = 4 1/8"
AF516	ECSR		1 SER. OF 5	1 SER. OF 5	13'-7" TO 17'-11"	82	2	5'-10" TO 8'-0"	2'-2"	5'-10" TO 8'-0"				Incr A = 6 1/2" Incr C = 6 1/2"
AF517	ECSR		1 SER. OF 4	1 SER. OF 4	5'-0" TO 12'-5"	36	STR							2'-5 5/8"
AF518	ECSR		1 SER. OF 4	1 SER. OF 4	6'-9" TO 14'-2"	44	STR							2'-5 5/8"
AF519	ECSR		1 SER. OF 4	1 SER. OF 4	6'-10" TO 14'-2"	44	STR							2'-5 3/8"
AF520	ECSR		1 SER. OF 4	1 SER. OF 4	5'-2" TO 12'-5"	37	STR							2'-5"
AF521	ECSR		1	1	17'-11"	19	19	15'-10"	1'-11"	9"				
AF522	ECSR		1	1	19'-8"	21	19	15'-10"	3'-7"	1'-5"				
AF523	ECSR		1	1	19'-4"	20	19	13'-8"	5'-3"	2'-2"				
AF524	ECSR		1	1	17'-7"	18	19	13'-8"	3'-8"	1'-6"				
AF525	ECSR		2	2	12'-4"	26	3	3'-3"	2'-7"					
AF601	ECSR		50	50	16'-10"	1,264	2	7'-3"	2'-8"	7'-3"				
AF602	ECSR		27	27	16'-4"	662	2	7'-3"	2'-2"	7'-3"				
AF801*	ECSR		1 SER. OF 4	1 SER. OF 4	38'-8" TO 41'-2"	426	STR							10"
AF802	ECSR		1 SER. OF 4	1 SER. OF 4	45'-1" TO 42'-7"	468	STR							10"
AF803**	ECSR		8	8	5'-4"	114	STR							
AF804*	ECSR		4	4	21'-11"	234	STR							
AF805	ECSR		4	4	25'-8"	274	STR							
SUBTOTAL						7,316								

* - SEE SHEET 26 OF 26 FOR NOTE REGARDING PHASE 1 BAR UTILIZING MECHANICAL CONNECTORS

** - SEE SHEET 26 OF 26 FOR NOTE REGARDING PHASE 2 BAR UTILIZING MECHANICAL CONNECTORS