

ROUNDING

THE ROUNDING AT SLOPE BREAKPOINTS SHOWN ON THE TYPICAL SECTIONS APPLIES TO ALL CROSS-SECTIONS, EVEN THOUGH OTHERWISE SHOWN.

UTILITIES

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

ELECTRIC:
 DAYTON POWER & LIGHT - TRANSMISSION
 P.O. BOX 1247
 DAYTON, OH 45401
 GREGORY TOKAR
 937.331.4647
 Gregory.tokar@aes.com

DAYTON POWER & LIGHT - DISTRIBUTION
 1900 DRYDEN RD.
 DAYTON, OH 45439
 BILL WARD
 937.554.9063
 William.ward@aes.com

PIONEER RURAL ELECTRIC COOP
 344 W. USR 36
 PIQUA, OH 45356
 JEFF DIETZ
 937.773.2523
 jdietz@pioneerrec.com

TELEPHONE:
 THE OHIO BELL TELEPHONE COMPANY
 3233 WOODMAN DR.
 DAYTON, OH 45420
 HOWARD LAUDERMILK
 OFFICE: 937.296.3588
 CELL: 937.286.7218
 HL1596@att.com

CABLE:
 CHARTER COMMUNICATIONS
 3691 TURNER RD.
 DAYTON, OH 45415
 JACOB HOUESHELL
 OFFICE: 937.396.8372
 CELL: 937.405.3786
 jacob.houdeshell@charter.com

TRAFFIC SIGNAL, ELECTRIC, FIBER, WATER, SEWER:
 CITY OF TROY
 100 S. MARKET ST.
 TROY, OH 45373
 JILLIAN RHOADES, CE
 937.339.2641
 Jillian.rhoades@troyohio.gov

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.

EXISTING PLANS

EXISTING BRIDGE PLANS ENTITLED "PETERSON BR. 0.10" AND EXISTING SIGNAL PLANS ENTITLED "MIA-CR25A-21.500" AND "MIA-CR031-04.2" MAY BE INSPECTED IN THE MIAMI COUNTY ENGINEERS OFFICE IN TROY, OHIO.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE THIS SHEET OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: STATIC GPS
 MONUMENT TYPE: TYPE B

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
 GEOID: 18

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83 (2011)
 ELLIPSOID: 2011
 MAP PROJECTION: LAMBERT CONFORMAL CONIC
 COORDINATE SYSTEM: OHIO STATE PLANE, SOUTH ZONE
 COMBINED SCALE FACTOR: 0.99998029
 PROJECT ADJUSTMENT FACTOR: 1.00001971
 ORIGIN OF COORDINATE SYSTEM: (0,0)

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

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.

CLEARING AND GRUBBING

REMOVE ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	NO. TREES	NO. STUMPS	TOTAL
18"	18 19	0	0 19
30"	3	0	3
48"	1	1	2
60"	0	0	0

BENCHING OF FOUNDATION SLOPES

ALTHOUGH CROSS-SECTIONS INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING OF THE EMBANKMENT FOUNDATIONS IN CERTAIN AREAS, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. BENCH ALL OTHER SLOPED EMBANKMENT AREAS AS SET FORTH IN SECTION 203.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS). NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF SECTION 203.05.

MONUMENT ASSEMBLIES

CONSTRUCT MONUMENT ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE STANDARD CONSTRUCTION DRAWINGS AND AT THE LOCATIONS SHOWN ON SHEET RW.2.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

ITEM 204 - PROOF ROLLING 2 HOUR.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A W-BEAM, BEAM SPLICE AS SHOWN IN AASHTO M 180-12, EXCEPT THE BEAM WASHERS ARE NOT TO BE USED. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, MGS TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 202 - REMOVAL MISC.: ADDRESS SIGN POST SUPPORT REMOVED

THIS WORK SHALL CONSIST OF REMOVING THE EXISTING ADDRESS POST SUPPORT AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS. THE CONTRACTOR SHALL SALVAGE THE EXISTING ADDRESS SIGN AS DESCRIBED IN ITEM SPECIAL ADDRESS SIGN POST SUPPORT.

ITEM 202 - REMOVAL MISC.: ADDRESS SIGN POST SUPPORT REMOVED, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM 202 - REMOVAL.: ADDRESS SIGN POST SUPPORT REMOVED.

ITEM SPECIAL - ADDRESS SIGN POST SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING ADDRESS POST SUPPORT AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED ADDRESS SIGN AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

THE ADDRESS SIGN SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW ADDRESS SIGN SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING ADDRESS SIGN AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY ADDRESS SIGN DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

ADDRESS SIGN POST SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL ADDRESS SIGN POST SUPPORTS.

DESIGN AGENCY	KORDA
DESIGNER	CLP
REVIEWER	BMV 09-08-23
PROJECT ID	108792
SHEET	TOTAL
P.5	78

ITEM 614, MAINTAINING TRAFFIC

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 180 ~~EXCEED 150~~ CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET P.9. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$1,000 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE.

NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP & ROAD	≥ 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
CLO-SURES	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	≤ 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 410,	TRAFFIC COMPACTED SURFACE, TYPE A OR B	25 CU. YD.
ITEM 614,	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	25 CU. YD.
ITEM 616,	WATER	1 M. GAL.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

DESCRIPTION OF CRITICAL WORK	CALENDAR DAYS TO COMPLETE	DISINCENTIVE \$ PER DAY	WORK WINDOW	
			START	END
CR 16A (PETERSON RD.) CLOSURE	150 DAYS 180 DAYS	\$1000	3/1/2024 2/1/2024	9/30/2024

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616,	WATER	7 M. GAL.
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ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

- DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

- DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

- FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS (CONTINUED)

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	90 HOURS
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THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	≥2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	≤ 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	≥2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

DETOUR SIGNING

THE CONTRACTOR SHALL ERECT, MAINTAIN AND REMOVE THE DETOUR SIGNING AS SHOWN HEREIN. THE PAYMENT FOR ALL THE MATERIAL, LABOR AND EQUIPMENT TO PERFORM THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614, DETOUR SIGNING.

MIA-CR16A-0.00

MODEL: Sheet PAPER: 34x22 (in.) DATE: 9/14/2023 TIME: 4:56:50 PM USER: cplacek
H:\Projects\2019\2019-0444_00_MIA-CR16A-0.00\108792-400-Engineering\Roadway\Sheets\108792_CG002.dgn

SHEET NUM.													PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
										P.35	P.40	P.48	01/S>2/10	EXT	TOTAL				
TRAFFIC CONTROL																			
										43			43	644	00500	43	FT	STOP LINE	
										209			209	644	00620	209	FT	CROSSWALK LINE, 12"	
										2			2	644	01400	2	EACH	WORD ON PAVEMENT, 72"	
										2			2	644	01620	2	EACH	BIKE CROSSING SYMBOL	
										0.12			0.12	646	10000	0.12	MILE	EDGE LINE, 4"	
										0.06			0.06	646	10200	0.06	MILE	CENTER LINE	
TRAFFIC SIGNALS																			
											15		15	625	25500	15	FT	CONDUIT, 3", 725.04	
											15		15	625	29000	15	FT	TRENCH	
											1		1	625	30700	1	EACH	PULL BOX, 725.08, 18"	
											2		2	625	32000	2	EACH	GROUND ROD	
											2		2	630	87520	2	EACH	REMOVAL OF POLE MOUNTED SIGN AND REERECTION	
											1		1	632	26500	1	EACH	DETECTOR LOOP	
											25		25	632	30200	25	FT	MESSENGER WIRE, 7 STRAND, 3/8" DIAMETER WITH ACCESSORIES	
											148		148	632	30500	148	FT	MESSENGER WIRE, MISC.: MESSENGER WIRE RELOCATED	P.38
											151		151	632	30600	151	FT	TETHER WIRE, WITH ACCESSORIES	
											274		274	632	40500	274	FT	SIGNAL CABLE, 5 CONDUCTOR, NO. 14 AWG	
											1		1	632	64000	1	EACH	STRAIN POLE FOUNDATION	
											1		1	632	64020	1	EACH	PEDESTAL FOUNDATION	
											302		302	632	65200	302	FT	LOOP DETECTOR LEAD-IN CABLE	
											1		1	632	86130	1	EACH	STRAIN POLE, TYPE TC-81.11, DESIGN 10	
											1		1	632	89802	1	EACH	PEDESTAL, 5', TRANSFORMER BASE	
											1		1	632	90100	1	EACH	REMOVAL OF TRAFFIC SIGNAL INSTALLATION	
											4		4	632	90200	4	EACH	REUSE OF VEHICULAR SIGNAL HEAD: VEHICULAR SIGNAL HEAD RELOCATED	
											1		1	632	90202	1	EACH	REUSE OF PEDESTRIAN SIGNAL HEAD: PEDESTRIAN SIGNAL HEAD RELOCATED	
											1		1	632	90210	1	EACH	REUSE OF PEDESTRIAN PUSHBUTTON: PUSHBUTTON RELOCATED	
											8		8	632	90400	8	EACH	SIGNALIZATION, MISC.: BACKPLATE INSTALLATION	P.38
STRUCTURE OVER 20 FOOT SPAN (SFN 5530769)																			
											LS		LS	202	11002	LS		STRUCTURE REMOVED, OVER 20 FOOT SPAN	
											680		680	202	23500	680	SY	WEARING COURSE REMOVED	
											LS		LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
											848		848	503	21104 21100	848	CY	UNCLASSIFIED EXCAVATION, INCLUDING ROCK	
											24		24	503	31100	24	CY	ROCK EXCAVATION	
											LS		LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION	
											665		665	507	00600	665	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	
											760		760	507	00650	760	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	
											19		19	507	93300	19	EACH	STEEL POINTS OR SHOES	
											177,090		177,090	509	10000	177,090	LB	EPOXY COATED STEEL REINFORCEMENT	
											123		123	511	33418	123	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE (ABUTMENT AND PIER DIAPHRAGMS)	
											2		2	511	33501	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN	P.52
											358		358	511	34446	358	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK	
											204		204	511	40512	204	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS	
											351		351	511	43512	351	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	
											108		108	511	46512	108	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	
											1,529		1,529	512	10100	1,529	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
											10		10	515	15130	10	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF72-49 (91'-4" BEAM LENGTH)	
											5		5	515	15130	5	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF72-49 (113'-0" BEAM LENGTH)	
											36		36	515	20000	36	EACH	INTERMEDIATE DIAPHRAGMS	
											155		155	516	13900	155	SF	2" PREFORMED EXPANSION JOINT FILLER	
											110		110	516	14020	110	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
											10		10	516	44101	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-0" x 2'-6" x 3")	P.55
											20		20	516	44200	20	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1'-4" x 2'-6" x 3.75")	
											607.5		607.5	517	70100	607.5	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)	
											187		187	518	21200	187	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
											728		728	SPECIAL	51822300	728	FT	STEEL DRIP STRIP	
											188		188	518	40000	188	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
											150		150	518	40010	150	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
											1		1	523	20000	1	EACH	DYNAMIC LOAD TESTING	

GENERAL SUMMARY

DESIGN AGENCY

KORDA / NEMETH ENGINEERING, INC
 1650 Watermark Drive,
 Suite 200,
 Columbus, OH 43215

DESIGNER
 CLP

REVIEWER
 BMV 09-08-23

PROJECT ID
 108792

SHEET TOTAL
 P.11 78

CALC: CLP DATE: 02-20-23
 CHECKED: CAB DATE: 02-24-23

ESTIMATED QUANTITIES (STRUCTURE OVER 20' SPAN, SFN 5530769)									
ITEM	EXTENSION	TOTAL	UNIT		ABUT.	PIERS	SUPER.	GEN.	SEE SHEET
202	11002	LS	LS	STRUCTURE REMOVED, OVER 20 FOOT SPAN				LS	
202	23500	680	SY	WEARING COURSE REMOVED				680	
503	11100	LS	LS	COFFERDAMS AND EXCAVATION BRACING				LS	
503	21104 21100	848	CY	UNCLASSIFIED EXCAVATION, INCLUDING ROCK	692	156			
503	31100	24	CY	ROCK EXCAVATION		24			
505	11100	LS	LS	PILE DRIVING EQUIPMENT MOBILIZATION				LS	
507	00600	665	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	665				
507	00650	760	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	760				
507	93300	19	EACH	STEEL POINTS OR SHOES	19				
509	10000	177,090	LB	EPOXY COATED STEEL REINFORCEMENT	33,869	35,880	107,341		
511	33418	123	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE (ABUTMENT AND PIER DIAPHRAGMS)			123		
511	33501	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN	2				8/23
511	34446	358	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			358		
511	40512	204	CY	CLASS QC1 CONCRETE WITH QC/QA, PIER ABOVE FOOTINGS		204			
511	43512	351	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT INCLUDING FOOTING	351				
511	46512	108	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING		108			
512	10100	1,529	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	224	356	949		
515	15130	10	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF72-49 (91'-4" BEAM LENGTH)			10		
515	15130	5	EACH	DRAPED STRAND PRESTRESSED CONCRETE BRIDGE I-BEAM MEMBERS, LEVEL 3, TYPE WF72-49 (113'-0" BEAM LENGTH)			5		
515	20000	36	EACH	INTERMEDIATE DIAPHRAGMS			36		
516	13900	155	SF	2" PREFORMED EXPANSION JOINT FILLER	155				
516	14020	110	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	110				
516	44101	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1'-0" x 2'-6" x 3")	10				11/23
516	44200	20	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1'-4" x 2'-6" x 3.75")		20			
517	70100	608	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)				607.5	
518	21200	187	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	187				
SPECIAL	51822300	728	FT	STEEL DRIP STRIP			728		
518	40000	188	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	188				
518	40010	150	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	150				
523	20000	1	EACH	DYNAMIC LOAD TESTING	1				
524	94804	63	FT	DRILLED SHAFTS, 42" DIAMETER, INTO BEDROCK	63				
524	94902	297	FT	DRILLED SHAFTS, 48" DIAMETER, ABOVE BEDROCK	153	144			
524	94904	56	FT	DRILLED SHAFTS, 48" DIAMETER, INTO BEDROCK		56			
524	95100	2	EACH	DRILLED SHAFTS, MISC.:ADDITIONAL PIER BORING		2			9/23
526	30011	248	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=17"), AS PER PLAN				248	19/23
526	90020	43	SY	TYPE B INSTALLATION				43	
894	10000	2	EACH	THERMAL INTEGRITY PROFILING (TIP) TEST	1	1			

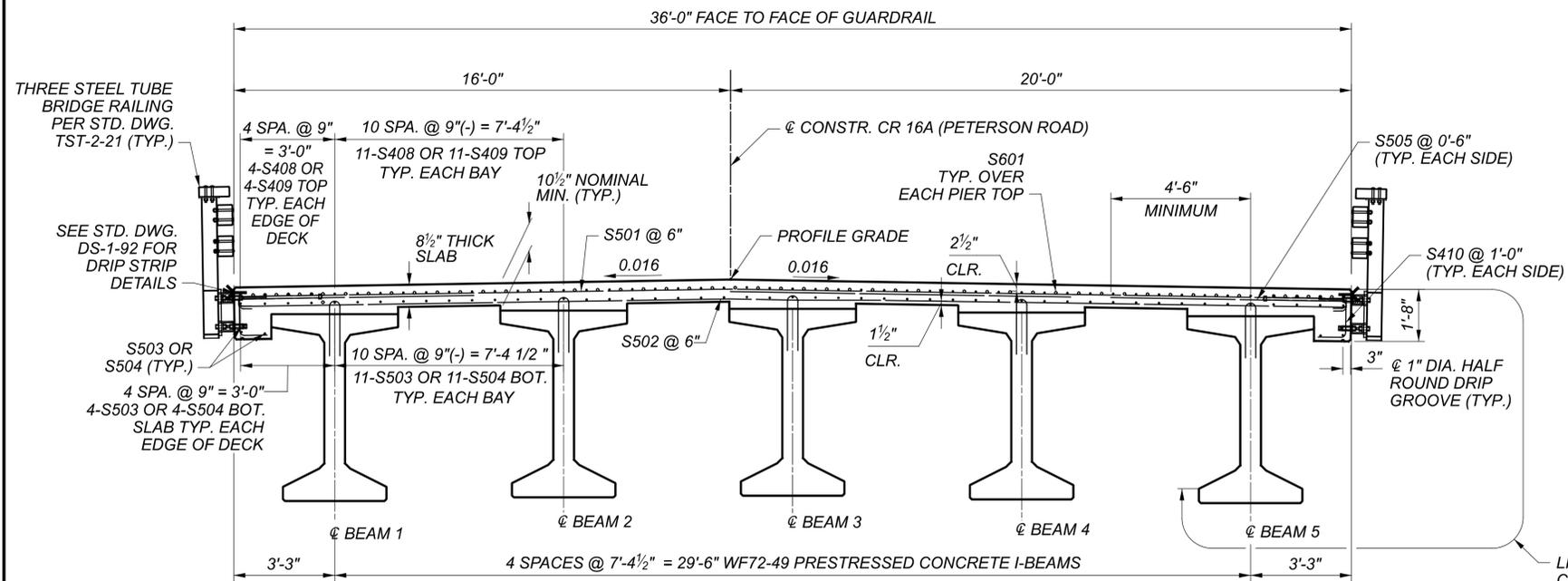
SEE ROADWAY QUANTITIES FOR ITEM 203, EMBANKMENT AS PER PLAN; ITEM 601, ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC; ITEM 606, MGS BRIDGE TERMINAL ASSEMBLY, TYPE TST-2

ESTIMATED QUANTITIES
 BRIDGE NO.: MIA-00016-00.024
 PETERSON ROAD OVER GREAT MIAMI RIVER

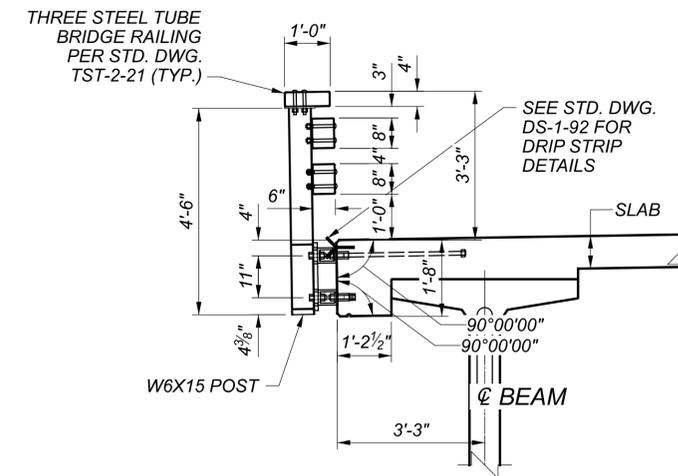
SFN	5530769
DESIGN AGENCY	KORDA
DESIGNER	CLP
CHECKER	CAB
REVIEWER	BMV 09-08-23
PROJECT ID	108792
SUBSET	4
TOTAL	23
SHEET	P.48
TOTAL	78

KORDA / NEMETH
 ENGINEERING, INC

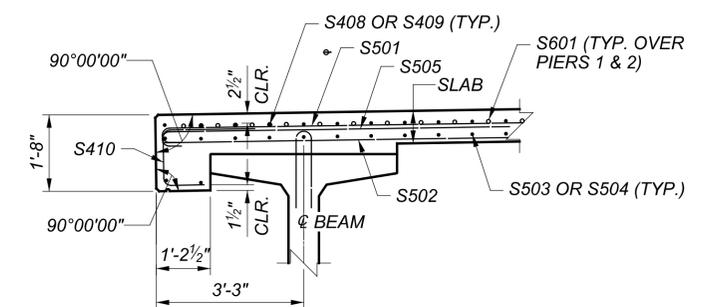
1650 Watermark Drive,
 Suite 200,
 Columbus, OH 43215



TRANSVERSE SECTION

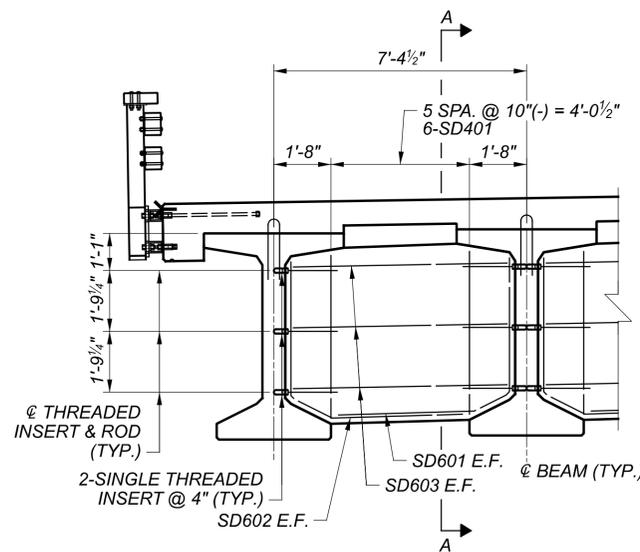


RAILING DETAIL

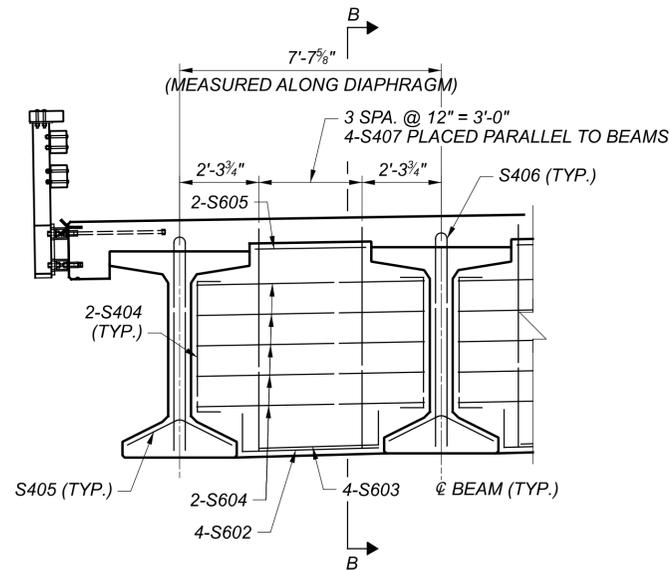


DECK OVERHANG DETAIL

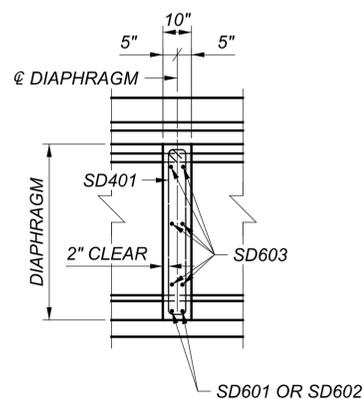
LIMITS OF SEALING OF CONCRETE SURFACES (TYP.)
 SEAL ENTIRE SURFACE AREA WITH EPOXY-URETHANE SEALER



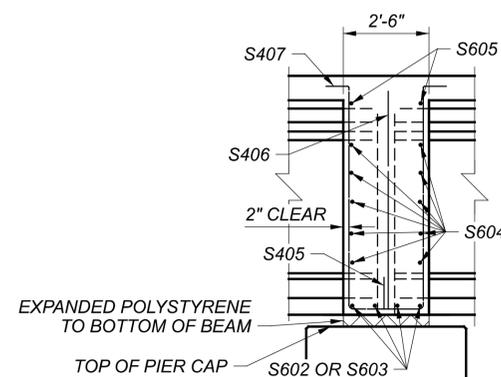
INTERMEDIATE DIAPHRAGM
 (TYPICAL EACH BAY)



PIER DIAPHRAGM
 (TYPICAL EACH BAY)



SECTION A-A



SECTION B-B

MINIMUM BAR LAP

- #4 - 1'-11"
- #5 - 2'-5"
- #6 - 3'-7"
- #8 - 5'-4"

THE INTERMEDIATE DIAPHRAGMS MAY BE EITHER CAST-IN-PLACE, CLASS QC2 CONCRETE AS SHOWN OR GALVANIZED STEEL AS SHOWN ON SHEET 9 OF 10 OF STD. DWG. PSID-1-13. THE CONTRACTOR SHALL CHOOSE THE TYPE. ONLY ONE TYPE OF INTERMEDIATE DIAPHRAGM MAY BE USED PER STRUCTURE.

NOTES

- FOR DECK REINFORCING PLAN SEE SHEET 16/23
- FOR BEAM DETAILS SEE SHEETS 13 & 14 / 23
- FOR DECK SLAB THICKNESS DIAGRAM SEE SHEET 17/23
- FOR DECK SCREED, TOP OF HAUNCH AND FINAL DECK ELEVATIONS SEE SHEET 17/23
- FOR ELEVATION PLAN SEE SHEET 18/23
- FOR SEMI-INTEGRAL ABUTMENT DIAPHRAGM DETAILS SEE SHEET 16/23
- FOR DIAPHRAGM LAYOUT SEE SHEET 12/23
- SEE STANDARD DRAWING PSID-1-13 AND SCID-2-14 FOR ADDITIONAL DETAILS AND NOTES.
- PIER AND SEMI-INTEGRAL DIAPHRAGM INCLUDED WITH ITEM 511 CLASS QC2 CONCRETE, SUPERSTRUCTURE, (PIER AND ABUTMENT DIAPHRAGMS) FOR PAYMENT.

ABUTMENT AND PIER DIAPHRAGMS, PRESTRESSED I-BEAM SUPERSTRUCTURE

PLACE THE DIAPHRAGM CONCRETE ENCASEING THE PRESTRESSED I-BEAM STRUCTURAL MEMBER ENDS AFTER THE DECK PLACEMENT IN THE ADJACENT SPAN IS COMPLETE. PROCEDURES THAT PLACE THE ABUTMENT AND PIER DIAPHRAGM WITH THE DECK CONCRETE MAY BE APPROVED BY THE ENGINEER IF THE PLACEMENT SUBMITTAL CAN ASSURE THAT THE DECK CONCRETE IN THE ADJACENT SPAN WILL BE PLACED BEFORE CONCRETE IN THE DIAPHRAGM HAS REACHED ITS INITIAL SET.

~~THE INTERMEDIATE DIAPHRAGMS SHALL BE CAST-IN-PLACE, CLASS QC2 CONCRETE AS SHOWN. CONCRETE INTERMEDIATE DIAPHRAGMS SHALL BE PLACED AND CURED AT LEAST 48 HOURS BEFORE DECK PLACEMENT BEGINS.~~

PAYMENT FOR INTERMEDIATE DIAPHRAGMS SHALL BE MADE AT THE CONTRACT PRICE FOR ITEM 515, EACH, INTERMEDIATE DIAPHRAGMS.

SFN	5530769
DESIGN AGENCY	KORDA
DESIGNER/CHECKER	EAT CAB
REVIEWER	BMV 09-08-23
PROJECT ID	108792
SUBSET	15 TOTAL 23
SHEET	P.59 TOTAL 78