

ITEM 614, MAINTAINING TRAFFIC

1. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
2. 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.
3. NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.] THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

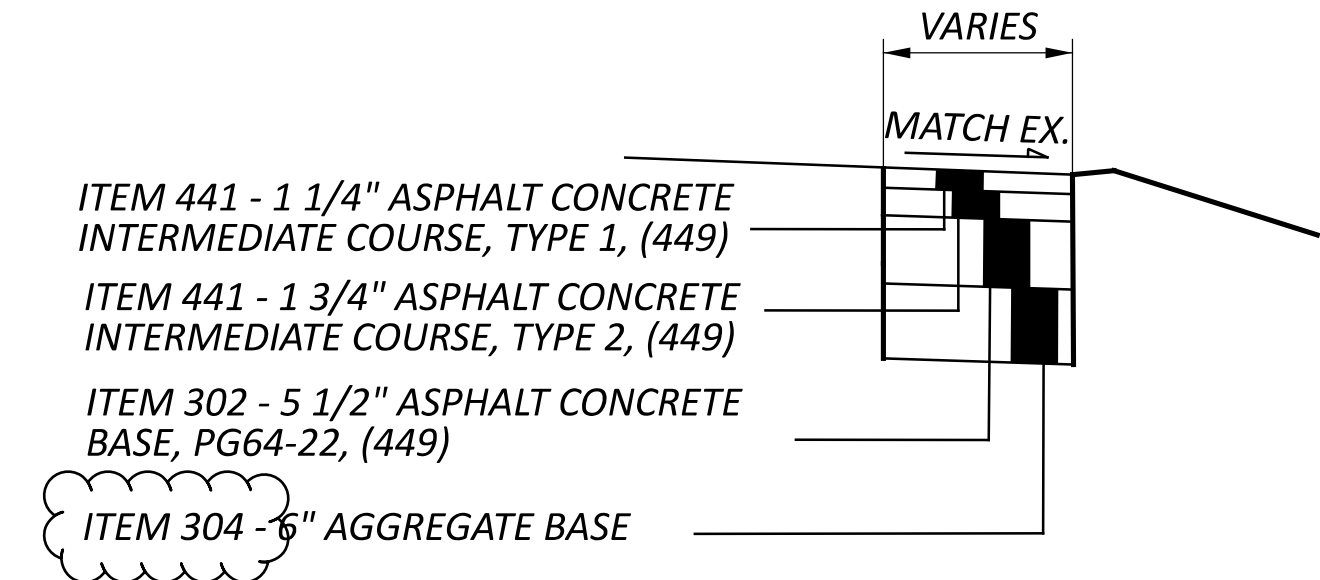
NOTICE OF CLOSURE SIGN TIME TABLE

ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP &	>2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
ROAD	> 12 HOURS&< 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
CLOSURES	<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.

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A

TEMPORARY PAVEMENT REQUIRED FOR THE MAINTENANCE OF TRAFFIC SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH ITEM 615 – PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AND ODOT STANDARD CONSTRUCTION DRAWINGS.



EARTHWORK FOR MAINTAINING TRAFFIC

- THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY.
- EXCAVATION FOR MAINTAINING TRAFFIC 29 CU. YD.
- EMBANKMENT FOR MAINTAINING TRAFFIC 5 CU. YD.
- WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, A TRENCH SHALL FIRST BE CONSTRUCTED TO ESTABLISH A STABLE VERTICAL FACE CAPABLE OF SUPPORTING THE TEMPORARY PAVEMENT. EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS.
- DETAILED LOCATIONS AND WIDTHS ARE PROVIDED IN THE MAINTENANCE OF TRAFFIC PLAN ON SHEET P.5. ALL MATERIALS AND LABOR NECESSARY TO INSTALL THE TEMPORARY PAVEMENT SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A. A QUANTITY FOR WHICH IS PROVIDED IN THE SUBSUMMARY ON SHEET P.9.

FULLY-ACTUATED OPERATION OF WORK ZONE TRAFFIC SIGNAL

THE WORK ZONE SIGNAL CONTROL REQUIRED FOR THIS PROJECT AND SHOWN ON SHEETS P.5 & P.6, AND TRAFFIC SCDS MT-96.11, 96.20 AND 96.26 SHALL BE FULLY TRAFFIC-ACTUATED AND OPERATE IN A MANNER SIMILAR TO THAT DESCRIBED IN SECTION 733.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THE INITIAL CONTROLLER TIMING SHALL BE AS FOLLOWS:

(TEM).	PHASE 1 (ALL RED) DUMMY	PHASE 2 MAINLINE (DIRECTION)	PHASE 3 (ALL RED) DUMMY	PHASE 4 MAINLINE (DIRECTION)
MIN.GREEN	10		10	
EXTENSION	4		4	
MAX.GREEN	30		30	
YELLOW	3.5		3.5	
ALL RED	X		X	
RECALL	ON	OFF	OFF	OFF

PROVIDE TIMING APPROPRIATE FOR THE SIGNAL LOCATION UNDER CONSIDERATION. TYPICAL FLOW RATES ARE DISPLAYED IN TABLE 697-2 IN THE ODOT TRAFFIC ENGINEERING MANUAL

THE CONTRACTOR SHALL ALSO DESIGN, FURNISH, INSTALL AND MAINTAIN A TRAFFIC DETECTOR ON EACH TRAFFIC APPROACH WHICH WILL RELIABLY DETECT ALL LEGAL TRAFFIC APPROACHING (BUT NOT LEAVING) THE SIGNAL AS IT PASSES OR WAITS IN THE DESIGNATED DETECTOR ZONE SHOWN IN THE PLANS. DETECTOR DESIGNS WHICH DO NOT PROVIDE RELIABLE DETECTION, FREE FROM FALSE CALLS, SHALL BE IMMEDIATELY REPLACED BY THE CONTRACTOR.

SEQUENCE OF CONSTRUCTION

PHASE 1

CONTRACTOR TO MAINTAIN TRAFFIC UTILIZING MT-96.11 (SIGNALIZED CLOSING 1 LANE OF A 2-LANE HIGHWAY). PRIOR TO SHIFTING TRAFFIC, THE CONTRACTOR MUST INSTALL TEMPORARY STRIPING, TEMPORARY PAVEMENT, TEMPORARY SIGNAL, AND REMAINING TEMPORARY TRAFFIC CONTROL DEVICES. TRAFFIC SHALL THEN BE SHIFTED TO NORTHBOUND LANE. AFTER TRAFFIC IS SHIFTED, THE CONTRACTOR SHALL INSTALL PORTABLE CONCRETE BARRIER (PCB), REMOVE THE SOUTHBOUND LANE, AND CONSTRUCT NEW SECTION OF BRIDGE AND ROADWAY WIDENING AS SHOWN IN SECTION A-A ON MOT PHASE 1 SHEET.

PHASE 2

CONTRACTOR TO MAINTAIN TRAFFIC UTILIZING MT-96.11 (SIGNALIZED CLOSING 1 LANE OF A 2-LANE HIGHWAY). ONCE PHASE 1 WORK IS COMPLETED, THE CONTRACTOR SHALL INSTALL TEMPORARY MARKINGS, AND REMAINING TEMPORARY TRAFFIC CONTROL DEVICES AS SHOWN ON MOT PHASE 2 SHEET. ONCE TRAFFIC IS SHIFTED, THE CONTRACTOR SHALL INSTALL PORTABLE CONCERET BARRIER, REMOVE THE REMAINING SECTION OF THE EXISTING BRIDGE, CONSTRUCT REMAINING PORTION OF BRIDGE, AND ROADWAY WIDENING. UTILIZE MT-97.10 (FLAGGER CLOSING 1 LANE OF 2-LANE HIGHWAY) TO CONSTRUCT FINAL PARKING LOT IMPROVEMENTS AND PLACE FINAL PAVEMENT MARKINGS.

ITEM 606 - IMPACT ATTENUATOR, TYPE 1 (UNIDIRECTIONAL)

- THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE MASH 2016 TYPE 1 IMPACT ATTENUATORS AS LISTED UNDER "PRODUCTS ACCEPTED FOR NEW, PERMANENT INSTALLATIONS" ON THE ROADWAY APPROVED PRODUCTS LIST POSTED ON THE OFFICE OF ROADWAY ENGINEERING’S WEB PAGE (REFER TO THE POSTED SHOP DRAWINGS FOR THE MOST CURRENT APPROVED PRODUCT MODELS). INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER’S SPECIFICATIONS.
- PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, IMPACT ATTENUATOR, TYPE 1(UNIDIRECTIONAL OR BIDIRECTIONAL), EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED TRANSITIONS, HARDWARE, REFLECTIVE SHEETING AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

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SHEET NUM.													PART	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION
P.3	P.4	P.8	P.9	RW.2								OFFICE CALCS	01/S>2					
													LS	201	11000	LS		ROADWAY
		190										X	190	202	23000	190	SY	CLEARING AND GRUBBING
		191											191	202	38000	191	FT	PAVEMENT REMOVED
		2											2	202	75250	2	EACH	GUARDRAIL REMOVED
1													1	202	98100	1	EACH	GATE REMOVED
																		REMOVAL MISC., AS PER PLAN
	29	26										X	55	203	10000	55	CY	EXCAVATION
	5	52										X	57	203	20000	57	CY	EMBANKMENT
		253										X	253	204	10000	253	SY	SUBGRADE COMPACTION
2													2	204	45000	2	HOOR	PROOF ROLLING
		150											150	606	15050	150	FT	GUARDRAIL, TYPE MGS
		2											2	606	20050	2	EACH	ROUNDED END SECTION
		2											2	606	25000	2	EACH	ANCHOR ASSEMBLY, TYPE A
		3											3	606	35140	3	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4
													3	623	40520	3	EACH	RIGHT-OF-WAY MONUMENT, TYPE B
																		EROSION CONTROL
1												168	168	601	32204	168	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC
107													1	659	00100	1	EACH	SOIL ANALYSIS TEST
964													107	659	00300	107	CY	TOPSOIL
49													964	659	00550	964	SY	SEEDING AND MULCHING, CLASS 4A
													49	659	14000	49	SY	REPAIR SEEDING AND MULCHING
49													49	659	15000	49	SY	INTER-SEEDING
0.14													0.14	659	20000	0.14	TON	COMMERCIAL FERTILIZER
0.2													0.2	659	31000	0.2	ACRE	LIME
6													6	659	35000	6	MGAL	WATER
1,366													1,366	832	30000	1,366	EACH	EROSION CONTROL
																		PAVEMENT
		911											911	254	01000	911	SY	PAVEMENT PLANING, ASPHALT CONCRETE (T=3")
		43											43	301	56000	43	CY	ASPHALT CONCRETE BASE, PG64-22, (449) (T=6")
		43											43	304	20000	43	CY	AGGREGATE BASE (T=6")
		47											47	407	20000	47	GAL	NON-TRACKING TACK COAT
		33											33	441	70000	33	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (449), PG64-22 (T=1.25")
		45											45	441	70300	45	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (449) (T=1.75")
		67											67	609	26000	67	FT	CURB, TYPE 6
		12											12	617	10100	12	CY	COMPACTED AGGREGATE (T=3")
																		TRAFFIC CONTROL
		4											4	630	84900	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL
		4											4	630	86002	4	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL
		0.15											0.15	646	10010	0.15	MILE	EDGE LINE, 6"
		0.08											0.08	646	10200	0.08	MILE	CENTER LINE
																		STRUCTURE OVER 20 FOOT SPAN (SFN 5765145)
																		MAINTENANCE OF TRAFFIC
		4											4	606	60002	4	EACH	IMPACT ATTENUATOR, TYPE 1 (UNIDIRECTIONAL)
		2											2	SPECIAL	61411300	2	EACH	WORK ZONE TRAFFIC SIGNAL
		0.14											0.14	614	22000	0.14	MILE	WORK ZONE EDGE LINE, CLASS I, 4"
		60											60	614	26000	60	FT	WORK ZONE STOP LINE, CLASS I
		72											72	615	20000	72	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A
		457											457	622	41110	457	FT	PORTABLE BARRIER, ANCHORED
		116											116	622	41100	116	FT	PORTABLE BARRIER, UNANCHORED
																		INCIDENTALS
8	LS												LS	614	11000	LS		MAINTAINING TRAFFIC
													8	619	16000	8	MNTH	FIELD OFFICE, TYPE A
													LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING
													LS	624	10000	LS		MOBILIZATION

GENERAL SUMMARY

 DESIGN AGENCY 8415 Pulis Plaza Suite 300 Columbus OH 43240	
DESIGNER	AJ
REVIEWER	SA 06/01/26
PROJECT ID	120484
SHEET	TOTAL
P.7	41

CTY-RTE-SECTION

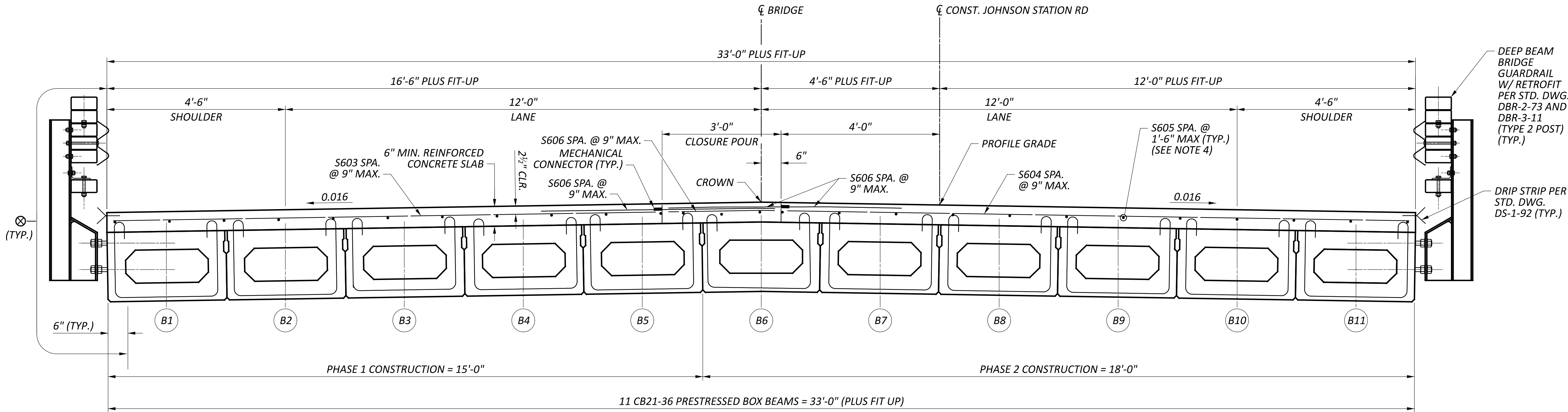
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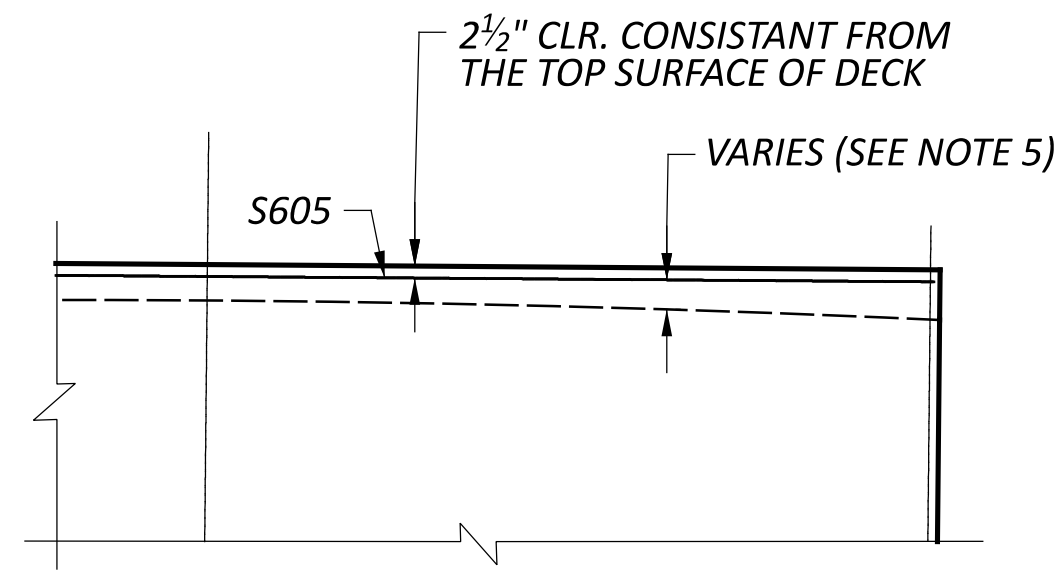
ROADWAY SUBSUMMARY

DESIGN AGENCY  PRIMER 8415 Pulsar Place Suite 300 Columbus Ohio 43240	
DESIGNER	
AJ	
REVIEWER	
SA 06/01/26	
PROJECT ID	
120484	
SHEET	TOTAL
P.8	41

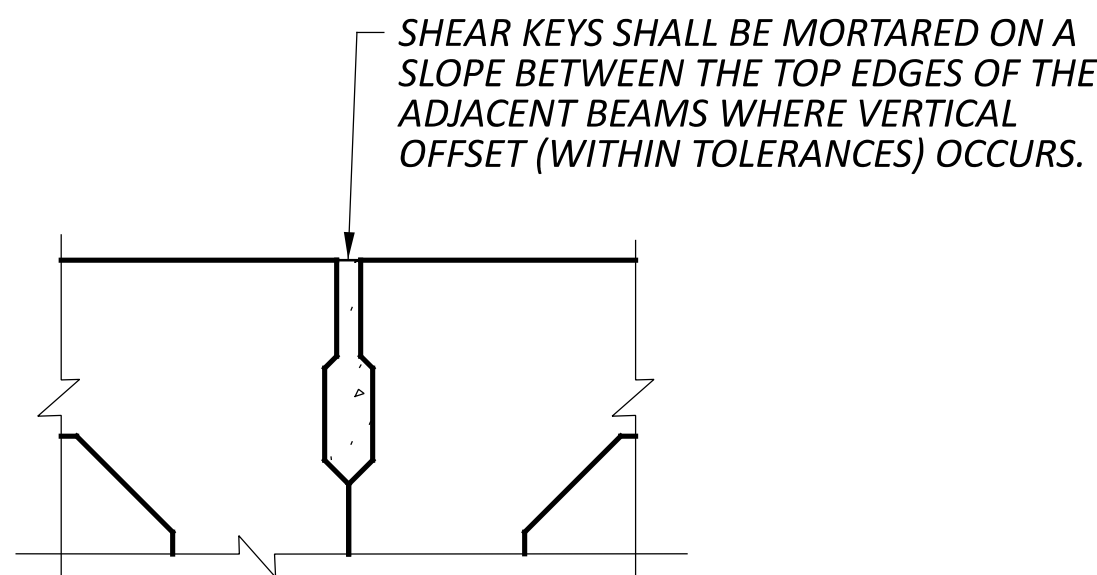
PAVEMENT/ MOT/ TRAFFIC CONTROL SUBSUMMARIES		
DESIGN AGENCY  PRIME 8415 Pulaski Place, Suite 300 Columbus Ohio 43240		
DESIGNER AJ		
REVIEWER SA 06/01/26		
PROJECT ID 120484		
SHEET P.9	TOTAL 41	



TRANSVERSE SECTION



CAMBER DETAIL



SHEAR KEY MORTAR DETAIL

MINIMUM LAP LENGTH:

6 BARS = 2'-10"

LEGEND:

- ⊗ = SEALING OF CONCRETE SURFACES (EPOXY - URETHANE)
B2 = BEAM NUMBER

NOTES:

- MECHANICAL CONNECTS: AN APPROVED TYPE OF MECHANICAL CONNECTOR SHALL BE PROVIDED WHERE SHOWN IN THE PLANS, THE INSTALLATION OF THE CONNECTORS SHALL CONFORM WITH THE MANUFACTURER'S PROCEDURES. MATERIAL COST, LABOR AND INCIDENTALS SHALL BE INCLUDED WITH ITEM 509 - EPOXY-COATED REINFORCING STEEL.
- PRESTRESSED CONCRETE BOX BEAM BRIDGE DETAILS SHALL BE IN ACCORDANCE WITH ODOT STANDARD DRAWING PSBD-2-07 AND THE ADDITIONAL SPECIFICATIONS ON SHEET 2/9.
- DO NOT PLACE THE GROUT FOR SHEAR KEYS EXPOSED BY PHASE CONSTRUCTION UNTIL THE DECK ADJACENT TO THE CLOSURE POUR IS CONSTRUCTED.
- SEE SHEET 11/16 FOR SLAB PLAN AND ADDITIONAL LONGITUDINAL REINFORCING DETAILS.
- VARIABLE DISTANCE DUE TO DECK CAMBER. USE VARIES HEIGHT OF REBAR SUPPORTS TO MAINTAIN THE 2.5" CLEAR COVER ACROSS THE LENGTH OF THE DECK.