

ITEM 614, MAINTAINING TRAFFIC

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION). COPIES ARE AVAILABLE FROM,

THE OHIO DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC, 1980 WEST BROAD STREET COLUMBUS, OHIO 43223

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER.

LANE CLOSURES AND RESTRICTIONS SHALL ADHERE TO THE TIMES LISTED IN THE LANE VALUE CONTRACT TABLES. THE MAXIMUM ALLOWABLE CLOSURE LENGTH IS 2 MILES AT ANY GIVEN TIME. CLOSURES OR RESTRICTIONS SHALL BE REMOVED FROM THE ROADWAY AT THE END OF WORKING HOURS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR APPROVED BY THE ENGINEER. LANE CLOSURES OR RESTRICTIONS SHALL BE LIMITED TO AREAS WHERE WORK IS BEING PERFORMED. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL IS IN PLACE AND APPROVED BY ODOT PERSONNEL. THE CONSTRUCTION INSPECTOR SHALL APPROVE ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR CONDITION AND LOCATION BEFORE THE CONTRACTOR WILL BE ALLOWED TO BEGIN WORK. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, HIS PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED.

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF WORK ZONE TRAFFIC SIGNALS AND A COMBINATION OF EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, AND TEMPORARY SURFACES USING ITEMS 410 AND 614, EXCEPT FOR A PERIOD NOT TO EXCEED 30 CONSECUTIVE CALENDAR DAYS FOR THE 0.36 SITE AND 75 CONSECUTIVE CALENDAR DAYS FOR THE 3.48 SITE WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEETS P.20A & P.21. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT SHOWN IN THE WINDOW CONTRACT TABLE ON THIS SHEET. THE 0.36 AND 3.48 SITES SHALL NOT BE CONCURRENTLY CLOSED.

CONTRACTOR SHALL CONSIDER THE 1.49 AND 1.56 SITE LOCATIONS TO BE A SINGLE WORK ZONE AND SHALL CONSTRUCT BOTH LOCATIONS SIMULTANEOUSLY.

THE 3.25 SITE SHALL UTILIZE FLAGGERS AS PER SCD MT-97.10 TO PERFORM ALL CONSTRUCTION OPERATIONS. A MINIMUM OF ONE LANE IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES WHEN CONSTRUCTION ACTIVITIES ARE NOT BEING PERFORMED. FLAGGERS SHALL ALSO BE USED TO COMPLETE THE BRIDGE OVERLAY WORK FOR THE 0.93 STRUCTURE AND SHALL BE LIMITED TO NIGHTTIME AND WEEKEND HOURS ONLY.

NO WORK SHALL BE PERFORMED AND THE SAME NUMBER OF LANES AS WERE AVAILABLE AT THE START OF THE PROJECT SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

Table with 2 columns: NEW YEAR'S (OBSERVED), MEMORIAL DAY, FOURTH OF JULY (OBSERVED), LABOR DAY; GENERAL/REGULAR ELECTION DAY (NOV), THANKSGIVING, CHRISTMAS (OBSERVED)

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR SPECIAL EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

Table with 2 columns: DAY OF HOLIDAY OR EVENT, TIME ALL LANES MUST BE OPEN TO TRAFFIC. Rows include SUNDAY, MONDAY, TUESDAY, TUESDAY (GEN/REG ELECTION), WEDNESDAY, THURSDAY, THURSDAY (THANKSGIVING ONLY), FRIDAY, SATURDAY.

ITEM 614, MAINTAINING TRAFFIC (CONTINUED)

SPECIAL EVENTS

DELAWARE COUNTY FAIR - LANE OR SHOULDER CLOSURES ARE NOT PERMITTED DURING THE DELAWARE COUNTY FAIR 6AM-10PM DAILY ON THE FOLLOWING ROUTES: SR 229 BETWEEN US 23 AND PETERS ROAD (CR 250)

DURING THE SAME PERIODS, MAINTAIN PEDESTRIAN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$100 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

BEFORE THE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE NAME(S) AND TELEPHONE NUMBER(S) OF A PERSON OR PERSONS WHO CAN BE CONTACTED TWENTY-FOUR (24) HOURS PER DAY BY THE OHIO DEPARTMENT OF TRANSPORTATION AND ALL INTERESTED POLICE AGENCIES. THIS PERSON OR PERSONS SHALL BE RESPONSIBLE FOR PLACING OR REPLACING NECESSARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

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.

Table with 3 columns: ITEM, DURATION OF CLOSURE, SIGN DISPLAYED TO PUBLIC. Rows for ROAD CLOSURES with durations >= 2 WEEKS, > 12 HOURS & < 2 WEEKS, <= 12 HOURS.

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. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF 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.

SR 229 WILL BE CLOSED "MMM-DD" FOR 30 DAYS INFO: 1-740-833-8268

SR 229 WILL BE CLOSED "MMM-DD" FOR 75 DAYS INFO: 1-740-833-8268

W20-H13-60 (0.36 SITE)

W20-H13-60 (3.48 SITE)

WINDOW CONTRACT TABLE with columns: DESCRIPTION OF CRITICAL WORK, CALENDAR DAYS TO COMPLETE, DISINCENTIVE \$ PER DAY, WORK WINDOW (START, END). Rows for 0.36 and 3.48 sites.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48 X 30 INCH ROAD CLOSED SIGNS, SIGN SUPPORTS, BARRICADES AND LIGHTS, AS DETAILED IN SCD MT-101.60 AT THE FOLLOWING LOCATIONS DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC:

- AT THE LIMITS OF THE WORK AREA FOR THE 0.36 SITE ON S.R 229
- AT THE LIMITS OF THE WORK AREA FOR THE 3.48 SITE ON S.R 229

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS SHOWN ON THE DETOUR PLAN.

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.

SEQUENCE OF CONSTRUCTION ON S.R. 229

THE FOLLOWING IS A SUGGESTED SEQUENCE OF CONSTRUCTION FOR THIS PROJECT:

IT IS THE INTENT OF THE FOLLOWING SEQUENCE OF CONSTRUCTION TO PROVIDE A WORK AREA FOR THE CONTRACTOR WHILE ALSO MAINTAINING TRAFFIC IN THE MANNER WHICH IS SAFE FOR THE TRAVELING PUBLIC. ALL WORK ZONE OR PERMANENT PAVEMENT MARKINGS SHALL BE IN PLACE BEFORE ANY PAVEMENT IS OPEN TO TRAFFIC. CONTRACTOR SHALL ERECT ALL TRAFFIC CONTROL DEVICES AND ENSURE THEY ARE IN GOOD WORKING ORDER PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES ON THE BRIDGE. PRIOR TO ERECTING PORTABLE BARRIER, PAVEMENT FOR MAINTAINING TRAFFIC SHALL BE PLACED AS SHOWN, ON SHEET P.15-P.20.

ALL WORK ZONE SIGNING AND STRIPING SHALL BE IN PLACE PRIOR TO ERECTING BARRIER, AS WELL AS THE WORK ZONE TRAFFIC SIGNAL INSTALLATIONS.

THE WORK ZONE TRAFFIC SIGNALS SHALL INITIALLY BE TIMED ACCORDING TO THE SIGNAL PHASING DIAGRAM INCLUDED IN THE PLAN OR AS PROVIDED BY ENGINEER. THE CONTRACTOR SHALL PERIODICALLY MONITOR THE SIGNAL OPERATION TO DETERMINE FAILURE OR INEFFICIENT OPERATION. AT THE BEGINNING OF EACH PHASE, THE ENGINEER SHALL OBSERVE THE INITIAL FUNCTIONING OF THE TIMING PLAN TO ENSURE IT IS WORKING PROPERLY, AND ACCOMPLISHING THE ABOVE STATED INTENT, AS WELL AS AVOIDING UNREASONABLY LONG TRAFFIC QUEUES AT EITHER END. IF NECESSARY, THE TIMING SHALL BE ADJUSTED IF UNREASONABLY LONG TRAFFIC QUEUES ARE OBSERVED ON EITHER SIDE. THE ENGINEER AND CONTRACTOR SHALL MAKE PERIODIC OBSERVATIONS (AT LEAST BI-WEEKLY) TO ENSURE THAT THE SIGNALS ARE CONTINUING TO FUNCTION AS PLANNED. THE CONTRACTOR SHALL COMPLETE ALL WORK AS SHOWN IN THE TABLE:

Table with 3 columns: PROPOSED WORK, COMPLETION DATE, DISINCENTIVE \$ PER DAY. Row for ALL PROPOSED WORK AT 0.93, 1.49, 1.56, 2.298, AND 3.25 SITES with completion date 10/15/2026 and \$2,000.

0.93 SITE

PRE-PHASE: DURING PRE-PHASE, CONSTRUCT ALL TEMPORARY PAVEMENT ALONG THE SOUTHERN SHOULDER TO THE LIMITS SHOWN ON SHEET P.15. CONTRACTOR IS TO MAINTAIN TWO-WAY TRAFFIC USING THE EXISTING PAVEMENT AS WELL AS MAINTAIN ACCESS TO THE "NORTON RUN FISHING AREA AND KAYAK LAUNCH" DRIVE DURING PHASE 1 CONSTRUCTION.

PHASE 1: DURING PHASE 1, TRAFFIC WILL BE SHIFTED TO THE EXISTING PAVEMENT ON THE SOUTH SIDE (EASTBOUND) OF S.R. 229 AND REDUCED TO A SIGNALIZED ONE LANE, TWO-WAY TRAFFIC TO ALLOW CONSTRUCTION TO BE PERFORMED ON THE NORTH SIDE OF S.R. 229. THROUGHOUT THE WORK AREA, THE LANE SHALL BE 10.0' WITH 1.0' PORTABLE BARRIER OFFSET AND A 2.0' SHOULDER MAXIMUM. THE CONTRACTOR SHALL INSTALL ALL PORTABLE BARRIER, SIGNS, AND PAVEMENT MARKINGS AS SHOWN ON SHEET P.15. INSTALL THE TEMPORARY TRAFFIC SIGNALS AS SHOWN TO BE USED DURING PHASES 1 AND 2. FOR THE DEL-00229-00.930 PART-WIDTH CONSTRUCTION DETAILS, SEE SHEET P.87. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE "NORTON RUN FISHING AREA AND KAYAK LAUNCH" DRIVE. REFER TO SHEET P.14 FOR ADDITIONAL NOTES REGARDING CANOE AND BOATING TRAFFIC TEMPORARY CLOSURES DURING SPECIFIC CONSTRUCTION ACTIVITIES. CONSTRUCT TEMPORARY PAVEMENT ON THE NORTH SIDE OF S.R. 229 TO THE LIMITS SHOWN ON SHEET P.16 TO BE USED DURING PHASE 2.

PHASE 2: DURING PHASE 2, TRAFFIC WILL BE SHIFTED TO THE EXISTING PAVEMENT ON THE NORTH SIDE (WESTBOUND) OF S.R. 229 AND REDUCED TO A SIGNALIZED ONE LANE, TWO-WAY TRAFFIC TO ALLOW CONSTRUCTION TO BE PERFORMED ON THE SOUTH SIDE OF S.R. 229. THROUGHOUT THE WORK AREA, THE LANE SHALL BE 10.0' WITH 1.0' PORTABLE BARRIER OFFSET AND A 2.0' SHOULDER MAXIMUM. THE CONTRACTOR SHALL INSTALL ALL PORTABLE BARRIER, SIGNS, AND PAVEMENT MARKINGS AS SHOWN ON SHEET P.16. FOR THE DEL-00229-00.930 PART-WIDTH CONSTRUCTION DETAILS, SEE SHEET P.88. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE "NORTON RUN FISHING AREA AND KAYAK LAUNCH" DRIVE. REFER TO SHEET P.14 FOR ADDITIONAL NOTES REGARDING CANOE AND BOATING TRAFFIC TEMPORARY CLOSURES DURING SPECIFIC CONSTRUCTION ACTIVITIES.

PHASE 3: CONTRACTOR SHALL REMOVE ALL TEMPORARY TRAFFIC CONTROL DEVICES USED IN THE PREVIOUS PHASE PRIOR TO BEGINNING PHASE 3 WORK. FLAGGERS AS PER SCD MT-97.10 SHALL BE USED TO COMPLETE THE BRIDGE OVERLAY AND MISCELLANEOUS WORK. THIS WORK SHALL BE LIMITED TO NIGHTTIME AND WEEKEND CLOSURES ONLY.

CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING PRIOR TO ANY CLOSURES AS OUTLINED IN THE "NOTIFICATION OF TRAFFIC RESTRICTIONS" NOTE.

CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES AND RETURN THE FLOW OF TRAFFIC TO THE TYPICAL CONFIGURATION ONCE ALL PROPOSED WORK HAS BEEN COMPLETED. PLACE THE FINAL PAVEMENT MARKINGS PRIOR TO OPENING TRAFFIC FOR S.R. 229.

0.1.49/1.56 SITE

PRE-PHASE: DURING PRE-PHASE, CONSTRUCT ALL TEMPORARY PAVEMENT ALONG THE SOUTHERN SHOULDER TO THE LIMITS SHOWN ON SHEET P.17. CONTRACTOR IS TO MAINTAIN TWO-WAY TRAFFIC USING THE EXISTING PAVEMENT AS WELL AS MAINTAIN ACCESS TO "GEARHISER ROAD" AND THE FIELD DRIVE ON THE NORTH SIDE OF S.R. 229 DURING PHASE 1 CONSTRUCTION.

PHASE 1: DURING PHASE 1, TRAFFIC WILL BE SHIFTED TO THE EXISTING PAVEMENT ON THE SOUTH SIDE (EASTBOUND) OF S.R. 229 AND REDUCED TO A SIGNALIZED ONE LANE, TWO-WAY TRAFFIC TO ALLOW CONSTRUCTION TO BE PERFORMED ON THE NORTH SIDE OF S.R. 229. THROUGHOUT THE WORK AREA, THE LANE SHALL BE 10.0' WITH 1.0' PORTABLE BARRIER OFFSET AND A 2.0' SHOULDER MAXIMUM. THE CONTRACTOR SHALL INSTALL ALL PORTABLE BARRIER, SIGNS, AND PAVEMENT MARKINGS AS SHOWN ON SHEET P.17. INSTALL THE TEMPORARY TRAFFIC SIGNALS AS SHOWN TO BE USED DURING PHASES 1 AND 2. FOR THE DEL-00229-01.490 PART-WIDTH CONSTRUCTION DETAILS, SEE SHEET P.100. THE CONTRACTOR SHALL MAINTAIN ACCESS TO "GEARHISER ROAD" AND THE FIELD DRIVE. CONSTRUCT TEMPORARY PAVEMENT ON THE NORTH SIDE OF S.R. 229 TO THE LIMITS SHOWN ON SHEET P.18 TO BE USED DURING PHASE 2.

PHASE 2: DURING PHASE 2, TRAFFIC WILL BE SHIFTED TO THE EXISTING PAVEMENT ON THE NORTH SIDE (WESTBOUND) OF S.R. 229 AND REDUCED TO A SIGNALIZED ONE LANE, TWO-WAY TRAFFIC TO ALLOW CONSTRUCTION TO BE PERFORMED ON THE SOUTH SIDE OF S.R. 229. THROUGHOUT THE WORK AREA, THE LANE SHALL BE 10.0' WITH 1.0' PORTABLE BARRIER OFFSET AND A 2.0' SHOULDER MAXIMUM. THE CONTRACTOR SHALL INSTALL ALL PORTABLE BARRIER, SIGNS, AND PAVEMENT MARKINGS AS SHOWN ON SHEET P.18. FOR THE DEL-00229-00.930 PART-WIDTH CONSTRUCTION DETAILS, SEE SHEET P.101. THE CONTRACTOR SHALL MAINTAIN ACCESS TO "GEARHISER ROAD" AND THE FIELD DRIVE.

CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES AND RETURN THE FLOW OF TRAFFIC TO THE TYPICAL CONFIGURATION ONCE ALL PROPOSED WORK HAS BEEN COMPLETED. PLACE THE FINAL PAVEMENT MARKINGS PRIOR TO OPENING TRAFFIC FOR S.R. 229.

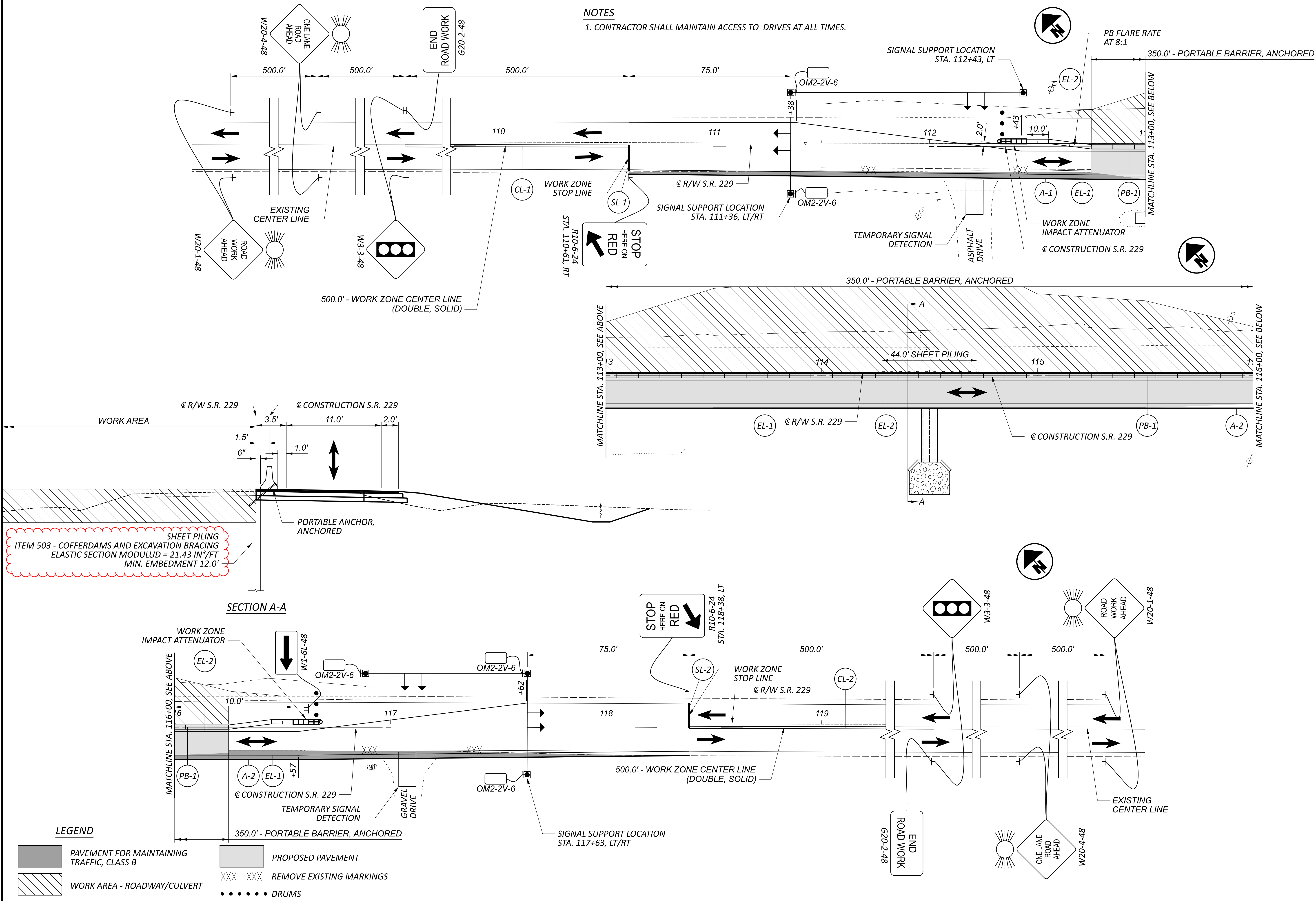
2.298 SITE

PRE-PHASE: DURING PRE-PHASE, CONSTRUCT ALL TEMPORARY PAVEMENT ALONG THE SOUTHERN SHOULDER TO THE LIMITS SHOWN ON SHEET P.19. CONTRACTOR IS TO MAINTAIN TWO-WAY TRAFFIC USING THE EXISTING PAVEMENT AS WELL AS MAINTAIN ACCESS TO THE ASPHALT AND GRAVEL DRIVES ON THE SOUTH SIDE OF S.R. 229 DURING PHASE 1 CONSTRUCTION.

PHASE 1: DURING PHASE 1, TRAFFIC WILL BE SHIFTED TO THE EXISTING PAVEMENT ON THE NORTH SIDE (WESTBOUND) OF S.R. 229 AND REDUCED TO A SIGNALIZED ONE LANE, TWO-WAY TRAFFIC TO ALLOW CONSTRUCTION TO BE PERFORMED ON THE SOUTH SIDE OF S.R. 229. THROUGHOUT THE WORK AREA, THE LANE SHALL BE 10.0' WITH 1.0' PORTABLE BARRIER OFFSET AND A 2.0' SHOULDER MAXIMUM. THE CONTRACTOR SHALL INSTALL ALL PORTABLE BARRIER, SIGNS, AND PAVEMENT MARKINGS AS SHOWN ON SHEET P.19. INSTALL THE TEMPORARY TRAFFIC SIGNALS AS SHOWN TO BE USED DURING PHASES 1 AND 2. CONTRACTOR SHALL COMPLETE ALL ROADWAY AND PROPOSED CULVERT WORK TO THE LIMITS SHOWN DURING THIS PHASE. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE ASPHALT AND GRAVEL DRIVES AT ALL TIME. CONSTRUCT TEMPORARY PAVEMENT ON THE SOUTH SIDE OF S.R. 229 TO THE LIMITS SHOWN ON SHEET P.20 TO BE USED DURING PHASE 2.

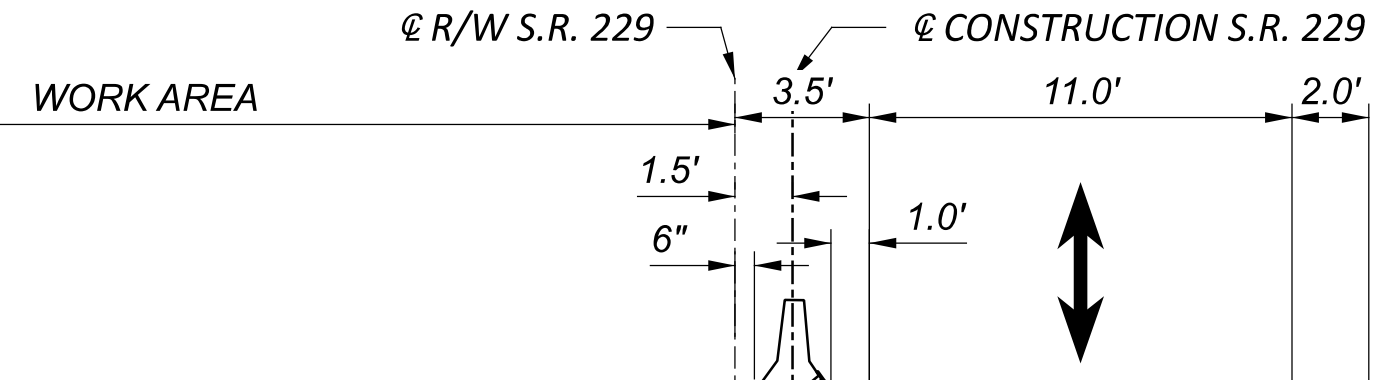
PHASE 2: DURING PHASE 2, TRAFFIC WILL BE SHIFTED TO THE NEWLY CONSTRUCTED PAVEMENT AND EXISTING PAVEMENT ON THE SOUTH SIDE (EASTBOUND) OF S.R. 229 AND REDUCED TO A SIGNALIZED ONE LANE, TWO-WAY TRAFFIC TO ALLOW CONSTRUCTION TO BE PERFORMED ON THE NORTH SIDE OF S.R. 229. THROUGHOUT THE WORK AREA, THE LANE SHALL BE 10.0' WITH 1.0' PORTABLE BARRIER OFFSET AND A 2.0' SHOULDER MAXIMUM. THE CONTRACTOR SHALL INSTALL ALL PORTABLE BARRIER, SIGNS, AND PAVEMENT MARKINGS AS SHOWN ON SHEET P.20. CONTRACTOR SHALL COMPLETE ALL ROADWAY AND PROPOSED CULVERT WORK TO THE LIMITS SHOWN DURING THIS PHASE. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE ASPHALT AND GRAVEL DRIVES AT ALL TIME.

CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES AND RETURN THE FLOW OF TRAFFIC TO THE TYPICAL CONFIGURATION ONCE ALL PROPOSED WORK HAS BEEN COMPLETED. PLACE THE FINAL PAVEMENT MARKINGS PRIOR TO OPENING TRAFFIC FOR S.R. 229.



NOTES

1. CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVES AT ALL TIMES.

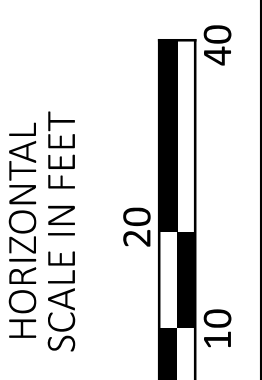


SHEET PILING
 ITEM 503 - COFFERDAMS AND EXCAVATION BRACING
 ELASTIC SECTION MODULUS = 21.43 IN³/FT
 MIN. EMBEDMENT 12.0'

SECTION A-A

LEGEND

	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B		PROPOSED PAVEMENT
	WORK AREA - ROADWAY/CULVERT	XXX XXX	REMOVE EXISTING MARKINGS
		•••••	DRUMS



MAINTENANCE OF TRAFFIC - 2.298
 PHASE 2


DESIGN AGENCY	
DESIGNER	JEP
REVIEWER	RG
PROJECT ID	107754
SHEET	P.20
TOTAL	P.136

DEL-229-0.45 AND VARIOUS

MODEL: Sheet PAPER: 34x22 (in.) DATE: 3/24/2026 TIME: 2:55:43 PM USER: cwhite
P:\Transportation\Work\Seals\107754_DEL-229-0021400-Engineering\Roadway\Sheets\107754_GG003.dgn

SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
P.74		P.86		P.99		P.113				01/STR	02/STR						
		161								161		512	10050	161	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
		6								6		512	10600	6	FT	CONCRETE REPAIR BY EPOXY INJECTION	
		66								66		516	10501	66	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC COMPRESSION SEAL, AS PER PLAN	P.85
		8								8		516	45305	8	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	P.85
		LS								LS		516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	P.85
		562								562		517	70100	562	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)	
		684								684		SPECIAL	51822300	684	FT	STEEL DRIP STRIP	P.92
		436								436		519	11101	436	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.85
		5								5		601	32100	5	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	
		860								860		848	10200	860	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION (1.75" THICK)	
		680								680		848	20000	680	SY	SURFACE PREPARATION USING HYDRODEMOLITION (1" NOMINAL THICKNESS)	
		6								6		848	30200	6	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
		102								102		848	50000	102	SY	HAND CHIPPING	
		LS								LS		848	50100	LS		TEST SLAB	
		4								4		848	50201	4	CY	FULL DEPTH REPAIR, AS PER PLAN	P.95
																STRUCTURE OVER 20 FOOT SPAN (DEL-00229-01.490)	
				LS						LS		202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	P.98
				67						67		202	23500	67	SY	WEARING COURSE REMOVED	
				22,922						22,922		509	10000	22,922	LB	EPOXY COATED STEEL REINFORCEMENT	
				580						580		509	20001	580	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	P.98
				74						74		511	32210	74	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
				62						62		512	10050	62	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
				28						28		512	10600	28	FT	CONCRETE REPAIR BY EPOXY INJECTION	
				272						272		517	70100	272	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)	
				314						314		SPECIAL	51822300	314	FT	STEEL DRIP STRIP	P.105
				100						100		519	11101	100	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	P.98
				520						520		848	10200	520	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION (1.75" THICK)	
				380						380		848	20000	380	SY	SURFACE PREPARATION USING HYDRODEMOLITION (1" NOMINAL THICKNESS)	
				4						4		848	30200	4	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY	
				57						57		848	50000	57	SY	HAND CHIPPING	
				LS						LS		848	50100	LS		TEST SLAB	
				11						11		848	50201	11	CY	FULL DEPTH REPAIR, AS PER PLAN	P.107
				380						380		848	50320	380	SY	EXISTING CONCRETE OVERLAY REMOVED (1 3/4" THICK)	
																STRUCTURE 20 FOOT SPAN AND UNDER (CFN 1997557)	
	LS									LS		503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
	60									60		503	21100	60	CY	UNCLASSIFIED EXCAVATION	
	2,789									2,789		509	10000	2,789	LB	EPOXY COATED STEEL REINFORCEMENT	
	6									6		511	46010	6	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
	19									19		511	46510	19	CY	CLASS QC1 CONCRETE, FOOTING	
	1									1		511	46610	1	CY	CLASS QC1 CONCRETE, HEADWALL	
	32									32		512	10050	32	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
	95									95		512	33000	95	SY	TYPE 2 WATERPROOFING	
	81									81		512	33010	81	SY	TYPE 3 WATERPROOFING	
	24									24		516	13600	24	SF	1" PREFORMED EXPANSION JOINT FILLER	

GENERAL SUMMARY

DESIGN AGENCY

www.bgengr.com
5560 WILCOX PLACE, SUITE C
DUBLIN, OHIO 43016

DESIGNER
JEP

REVIEWER
RG 9-9-25


PROJECT ID
107754

SHEET TOTAL
P.24 P.136

ESTIMATED QUANTITIES						CALCULATED BY GLA DATE 10/16/2024		CHECKED BY SB DATE 10/23/2024		
ITEM	ITEM EXT.	TOTAL	PART. 01/STR	UNITS	DESCRIPTION	STRUCTURE FILE NUMBER 2102765				
						ABUTS.	PIERS	SUPER.	GENERAL	SHT. REF.
202	11203	LUMP	LUMP		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	2, 4
202	23500	67	67	SY	WEARING COURSE REMOVED				67	
509	10000	22922	22922	LB	EPOXY COATED STEEL REINFORCEMENT			22922		
509	20001	580	580	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN			580		2
511	32210	74	74	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE			74		
512	10050	62	62	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)			62		
512	10600	28	28	FT	CONCRETE REPAIR BY EPOXY INJECTION	28				
517	70100	272	272	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)			272		
518	22300	314	314	FT	SPECIAL - STEEL DRIP STRIP			314		
519	11101	100	100	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	100				2
601	32100	5	5	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	5				
848	10200	520	520	SY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION (1 3/4" THICK)			520		
848	20000	380	380	SY	SURFACE PREPARATION USING HYDRODEMOLITION (1" NOMINAL THICKNESS)			380		
848	30200	4	4	CY	SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY			4		
848	50000	57	57	SY	HAND CHIPPING			57		
848	50100	LUMP	LUMP		TEST SLAB			LUMP		
848	50201	380	380	CY	FULL DEPTH REPAIR, AS PER PLAN			11		11
848	50320	380	380	SF	EXISTING CONCRETE OVERLAY REMOVED (1 3/4" THICK)			380		

NOTE: PORTABLE BARRIER QUANTITIES CARRIED WITH ROADWAY QUANTITIES.

ESTIMATED QUANTITIES
 BRIDGE NO. DEL-00229-01.490
 S.R. 229 OVER BRONDIGE RUN

SFN 2102765
 DESIGN AGENCY

 www.bgengr.com
 6960 WILCOX PLACE, SUITE C
 DUBLIN, OHIO 43016
 DESIGNER: GLA CHECKER: RG
 REVIEWER: GTB 10-30-24
 PROJECT ID: 107754
 SUBSET: 3 TOTAL: 13
 SHEET: P.99 TOTAL: P.136