

ITEM 614 - MAINTAINING TRAFFIC

BEFORE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF A PERSON OR PERSONS WHO CAN BE CONTACTED 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 ORDER TO PROVIDE A SAFE FACILITY FOR THE TRAVELLING PUBLIC, THIS PERSON SHALL HAVE AVAILABLE ALL TOOLS AND MATERIALS NECESSARY TO PERFORM THIS FUNCTION AT ALL TIMES.

A MINIMUM OF (1) 11 FOOT LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ALONG BRECKSVILLE ROAD (SR-21) BY USE OF THE EXISTING PAVEMENT.

ALL EXISTING LANES OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES ALONG I-480 BY USE OF THE EXISTING PAVEMENT. FOR THE SR-21 STRUCTURAL WORK TO REMOVE AND REPLACE THE DECK OR FOR PAINTING, THE CONTRACTOR SHALL FOLLOW THE PERMITTED LANE CLOSURE TABLE SHOWN ON THIS SHEET, ALONG WITH THE SHORT TERM CLOSURE OF MULTI-LANE DIVIDED HIGHWAY (MT-99.60).

ALL DRIVEWAYS ON SR-21 SHALL BE MAINTAINED AT ALL TIMES. NOTIFICATION SHALL BE GIVEN TO ADJOINING PROPERTIES A MINIMUM OF TWO BUSINESS DAYS IN ADVANCE OF ACCESS INTERRUPTIONS. THE CONTRACTOR SHALL PROVIDE APPROPRIATE SIGHT DISTANCE AT THE DRIVEWAYS.

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.

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.

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 SUBBASE 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.

WORK ZONE MARKINGS AND SIGNS

ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE MOT SUBSUMMARY FOR USE AT THE LOCATIONS IDENTIFIED IN THE PLANS AND BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11.

ITEM 614, REPLACEMENT SIGN

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ECT.

AN ESTIMATED QUANTITY OF 5 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

RTA BUS STOPS

ACCESS TO RTA BUS STOPS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. SEE PLAN SHEETS FOR LOCATIONS.

PEDESTRIAN ACCESS

PEDESTRIAN ACCESS ON BRIDGE SHALL BE MAINTAINED IN AT LEAST ONE DIRECTION THROUGHOUT CONSTRUCTION. SEE PLAN SHEETS FOR DETAILS.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL AND BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS. WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

ITEM 622, PORTABLE BARRIER, ANCHORED, AS PER PLAN

THE CONTRACTOR MAY SUBSTITUTE APPROVED PROPRIETARY PORTABLE BARRIER PRODUCTS WHICH CAN BE FOUND ON THE OFFICE OF ROADWAY ENGINEERING'S WEBSITE. THE CONTRACTOR SHALL PROVIDE TWO WEEKS WRITTEN NOTICE TO THE ENGINEER IF THE CONTRACTOR CHOOSES TO USE BARRIER OTHER THAN BARRIER MEETING THE REQUIREMENTS OF THE MOST CURRENT VERSION OF STANDARD CONSTRUCTION DRAWING PCB-91.

SCHEDULE OF THROUGH LANES TO BE MAINTAINED

ALL LANE CLOSURES MAY ONLY BE IMPLEMENTED AT THE TIMES PERMITTED BY THE "DISTRICT 12 PERMITTED LANE CLOSURE TIMES" LIST, WHICH IS LOCATED ON THE ODOT WEBSITE:

WWW.DOT.STATE.OH.US/DISTRICTS/D12/HIGHWAYMANAGEMENT/PAGES/PERMITTEDLANECLOSURES.ASPX

THE LATEST REVISION, AT 14 DAYS PRIOR TO THE BID DATE, SHALL BE IN EFFECT FOR THIS PROJECT.

NO LANE OR SHOULDER CLOSURES SHALL BE IN PLACE WHEN NO WORK IS BEING PERFORMED. SHOULDER CLOSURES SHALL ONLY BE ALLOWED AT THE TIMES SPECIFIED FOR LANE CLOSURES.

ANY ROADWAY NOT LISTED SHALL NOT HAVE ANY LANE CLOSURES ON WEEKDAYS FROM 6:30AM TO 9:00AM AND 3:00PM TO 6:00PM. CONTACT DENNIS O'NEIL, DISTRICT 12 WORK ZONE TRAFFIC MANAGER, AT (216) 584-2204 IF THERE ARE ANY QUESTIONS.

DELINEATION OF PORTABLE AND PERMANENT BARRIER

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

SEE SUB AND GENERAL SUMMARIES FOR ESTIMATED QUANTITIES.

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL/FLASHER INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

1. EXISTING SIGNAL/FLASHER INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST, MODIFY, ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME HIS OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK IS ACCEPTED.
2. NEW OR REUSED SIGNAL/FLASHER INSTALLATIONS OR DEVICES, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE MAINTAINING AGENCY AND THE ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK TO SERVICE WITHIN FOUR HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE.

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT EXCEPT POLES AND CONTROL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN 8 HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK IN OPERATION.

IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED 8-HOUR PERIOD, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON THEREAFTER AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE.

WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE ACCIDENT THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE.

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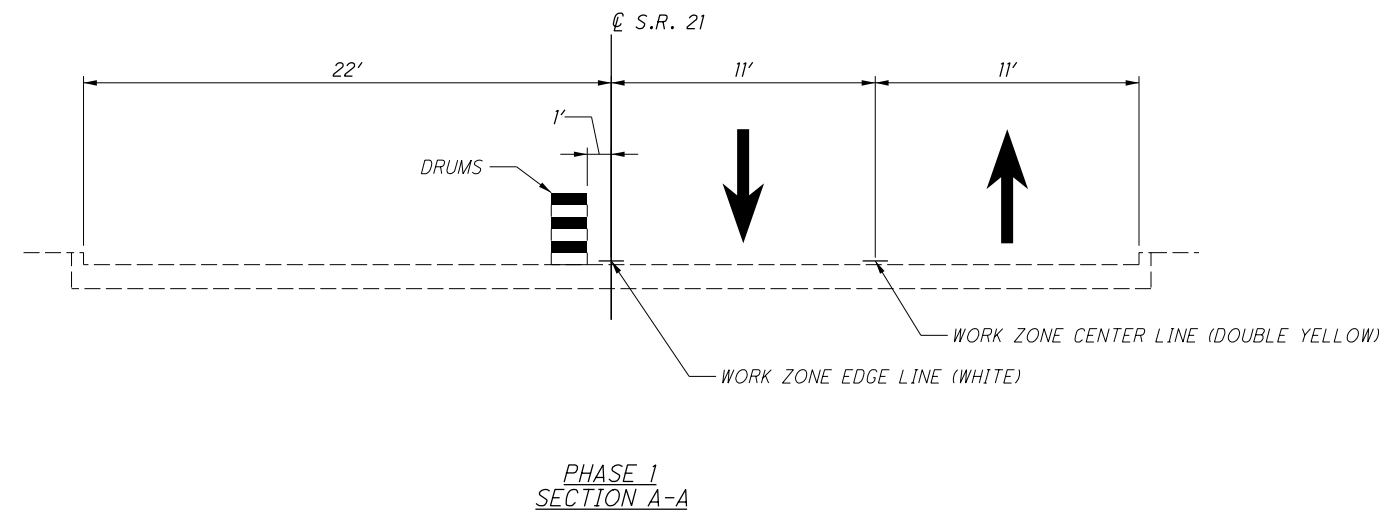
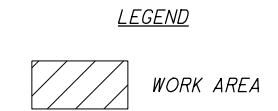
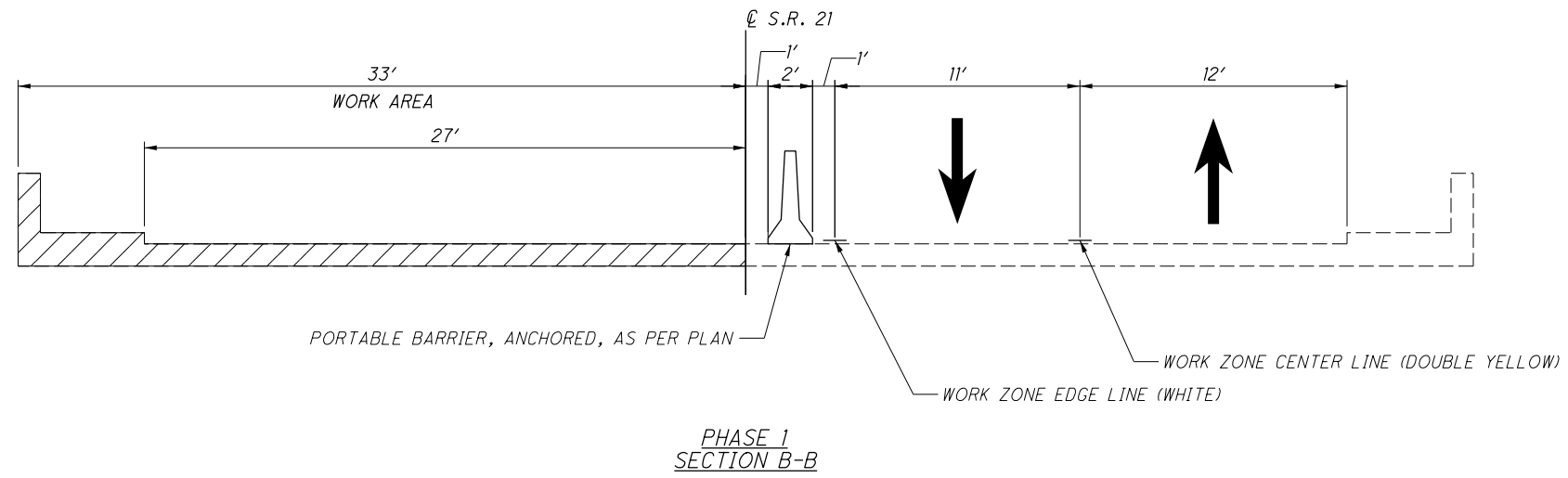
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MAINTENANCE OF TRAFFIC NOTES

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NOTES
1. FOR SECTIONS A-A AND B-B, SEE SHEET 9



MAINTENANCE OF TRAFFIC TYPICAL SECTIONS

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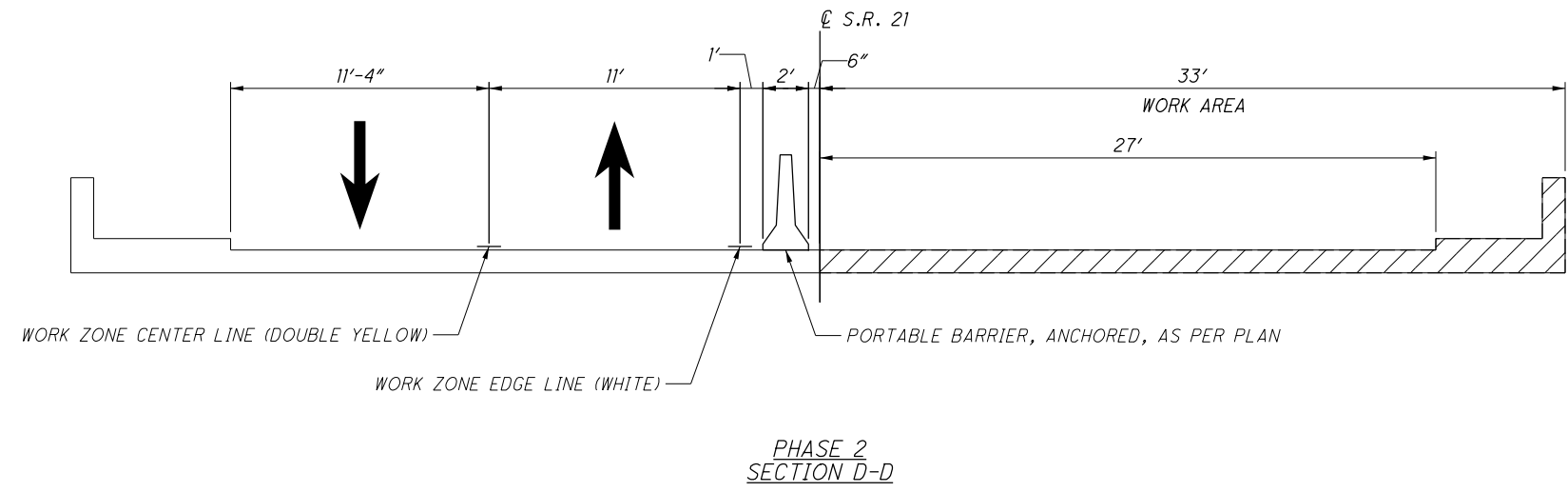
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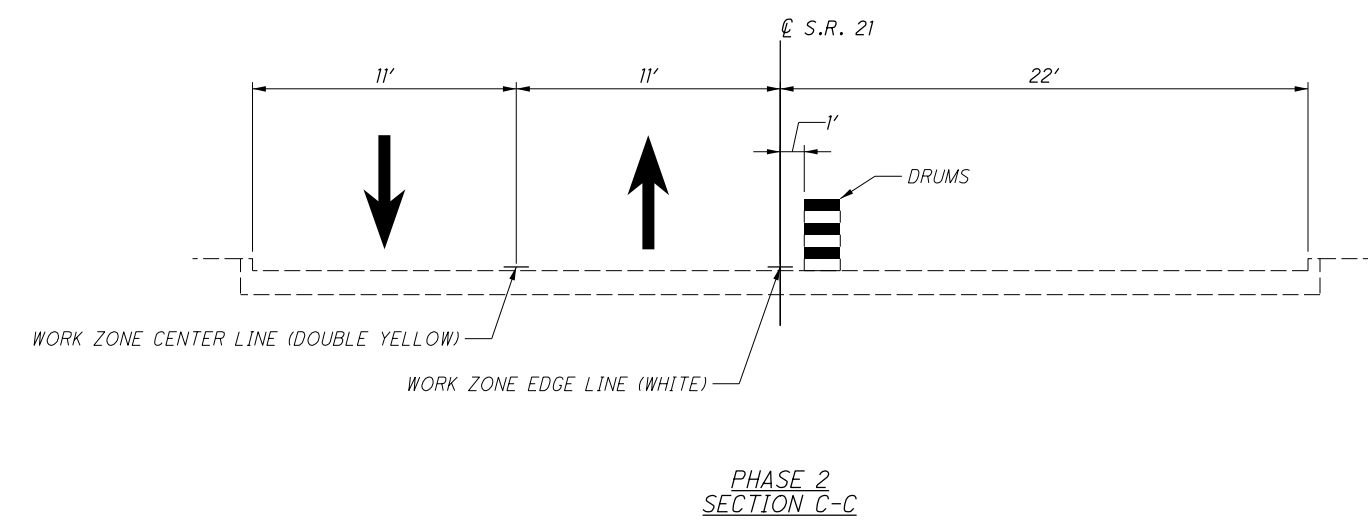
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NOTES
1. FOR SECTIONS C-C AND D-D, SEE SHEET 10

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 WORK AREA



MAINTENANCE OF TRAFFIC TYPICAL SECTIONS

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REF. NO.	SHEET NO.	STATION TO STATION	614	614	614	614	614	614	614	614	614	614	614	622	622				
			WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)	BARRIER REFLECTOR, TYPE I (ONE WAY)	BARRIER REFLECTOR, TYPE I (BIDIRECTIONAL)	OBJECT MARKER, ONE WAY	OBJECT MARKER, TWO WAY	WORK ZONE LANE LINE, CLASS I, 4", 740.06, TYPE I	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I (DOUBLE SOLID)	WORK ZONE EDGE LINE, CLASS I, 4", 740.06, TYPE I (WHITE)	WORK ZONE EDGE LINE, CLASS I, 4", 740.06, TYPE I (YELLOW)	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I	WORK ZONE CROSSWALK LINE, CLASS I, 24", 740.06, TYPE I	PORTABLE BARRIER, UNANCHORED	PORTABLE BARRIER, ANCHORED, AS PER PLAN			
			EACH	EACH	EACH	EACH	EACH	EACH	MILE	MILE	MILE	MILE	FT	FT	FT	FT			
S.R. 21 PHASE 1																			
ELY-1	\$MP001\$	99+40 102+92											0.07						
ELY-2	\$MP001\$	101+71 102+92											0.02						
ELW-1	\$MP001\$	102+42 117+14										0.28							
ELW-2	\$MP001\$	118+20 121+27										0.06							
CL-1	\$MP001\$	102+92 104+10								0.02									
CL-2	\$MP001\$	105+45 116+51								0.21									
SL-1	\$MP001\$	104+10 104+10											11						
SL-2	\$MP001\$	105+45 105+45											11						
PB-1	\$MP001\$	105+35 111+55				14		13							190		430		
IA-1	\$MP001\$	111+55 111+80		1															
S.R. 21 PHASE 2																			
ELW-1	\$MP002\$	97+67 103+90										0.12							
ELW-2	\$MP002\$	105+15 113+95										0.17							
CL-1	\$MP002\$	101+19 103+90								0.05									
CL-2	\$MP002\$	105+15 113+45								0.16									
SL-1	\$MP002\$	103+90 103+90											11						
SL-2	\$MP002\$	105+15 105+15											11						
IA-1	\$MP002\$	104+95 105+20		1															
IA-2	\$MP002\$	105+90 106+15		1															
IA-3	\$MP002\$	111+15 111+40		1															
PB-1	\$MP002\$	105+20 105+60				2		1							40				
PB-2	\$MP002\$	106+15 111+15				11		10							70		430		
XW-1	\$MP002\$	111+44 111+44																	
XW-1	\$MP002\$	111+50 111+50																	
ELY-1	\$MP002\$	113+45 116+97											0.07						
ELY-2	\$MP002\$	113+45 116+97											0.07						
LL-1	\$MP002\$	114+66 116+51								0.04									
LL-2	\$MP002\$	116+97 121+27								0.08									
I-480 PHASE 2																			
IA-1	\$MP009\$	984+76 984+99	1																
IA-2	\$MP009\$	985+02 985+26	1																
PB-1	\$MP009\$	984+99 988+46				8		7							350				
PB-2	\$MP009\$	985+26 988+46				8		7							320				
TOTALS CARRIED TO GENERAL SUMMARY			2	4	16	27	14	24	0.12	0.44	0.63	0.23	44	46	970	860			

CALCULATED	REM	CHECKED	KF
MAINTENANCE OF TRAFFIC SUBSUMMARY			
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