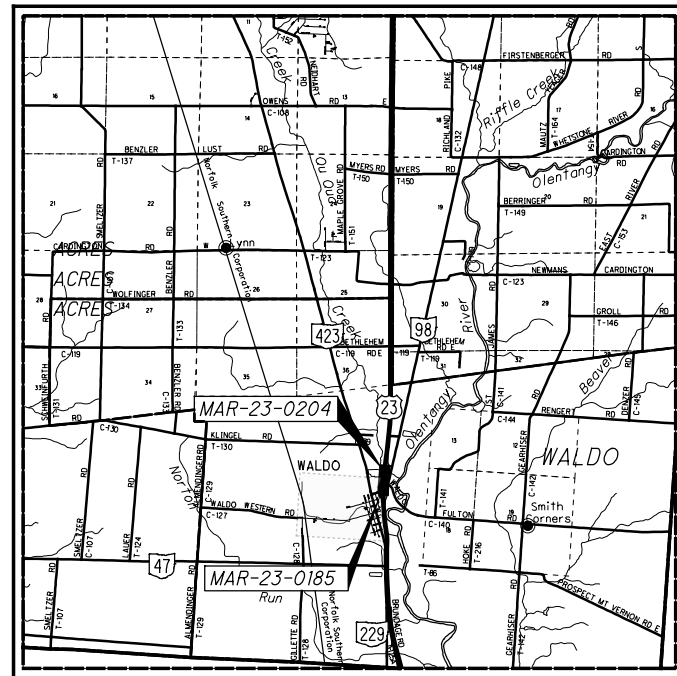


STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

MAR-23-1.85 / 2.04

**WALDO TOWNSHIP
MARION COUNTY**



LOCATION MAP

LATITUDE: 40°27'50" LONGITUDE: 83°04'32"



PORTION TO BE IMPROVED	-----
INTERSTATE HIGHWAY	=====
FEDERAL ROUTES	-----
STATE ROUTES	-----
COUNTY & TOWNSHIP ROADS	-----
OTHER ROADS	-----

DESIGN DESIGNATION

MAR-23 (1.56-2.39)	
CURRENT ADT (2018)	28,000
DESIGN YEAR ADT (2038)	37,000
DESIGN HOURLY VOLUME (2038)	3,700
DIRECTIONAL DISTRIBUTION	51%
TRUCKS (24 HOUR B&C)	10%
DESIGN SPEED	65
LEGAL SPEED	65
DESIGN FUNCTIONAL CLASSIFICATION:	
	02 PRINCIPAL ARTERIAL (RURAL)
NHS PROJECT	YES

UNDERGROUND UTILITIES

Contact Two Working Days
Before You Dig

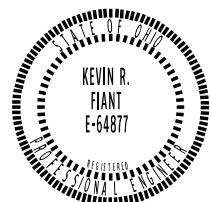


OHIO811, 8-1-1, or 1-800-362-2764
(Non-members must be called directly)

PLAN PREPARED BY:



STRUCTURES:



SIGNED: *Kevin R. Fiant*
DATE: 7/2/2020

ENGINEERS SEAL:



SIGNED: *Katherine L. Montoya*
DATE: 7/2/2020

DESIGN EXCEPTIONS

DESIGN FEATURE	APPROVAL DATE	SHEET NUMBERS
SHOULDER WIDTH	02/15/18	3 AND 103

INDEX OF SHEETS:

TITLE	1
SCHEMATIC	2
TYPICAL SECTIONS	3 - 4
TYPICAL DETAILS	5
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STRUCTURE OVER 20' SPAN	
	MAR-23-0185 58 - 87
	MAR-23-0204 88 - 112 AND 90A

STANDARD CONSTRUCTION DRAWINGS

STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS	
AS-1-15	07/17/15	MGS-1.1	01/19/18	MT-98.20	04/19/19	SICD-1-96	07/18/14	800	07/17/20
AS-2-15	01/19/18	MGS-2.1	01/19/18	MT-98.29	01/17/20	SICD-2-14	07/18/14	808	01/18/19
		MGS-3.1	01/19/18	MT-99.20	04/19/19			821	04/20/12
BP-3.1	01/17/20	MGS-3.2	01/18/13	MT-99.30	01/17/20	TC-41.20	10/18/13	832	10/19/18
BP-5.1	01/18/19	MGS-4.2	07/19/13	MT-100.00	01/15/16	TC-42.20	10/18/13	868	10/17/14
BP-9.1	01/18/19	MGS-5.3	07/15/16	MT-101.60	01/17/20	TC-52.10	10/18/13	873	10/17/08
		MGS-6.1	01/19/18	MT-101.70	01/17/20	TC-52.20	01/19/18	875	01/18/19
DM-4.1	07/20/18			MT-101.75	01/17/20	TC-61.10	01/17/20	878	01/17/20
DM-4.3	01/15/16	MT-95.30	07/19/19	MT-101.80	01/17/20	TC-61.30	07/19/19	896	07/21/17
DM-4.4	01/15/16	MT-95.40	01/17/20	MT-101.90	07/21/17	TC-65.10	01/17/14		
		MT-95.50	07/21/17	MT-104.10	10/16/15	TC-65.11	07/21/17		
PCB-91	01/18/13	MT-95.70	01/17/20	MT-105.10	01/17/20	TC-72.20	07/15/16		
		MT-95.82	07/19/13						
RM-4.2	04/17/20	MT-97.10	04/19/19	SBR-1-13	01/17/14	VPF-1-90	07/20/18		

SPECIAL PROVISIONS

PROJECT DESCRIPTION

REPLACE BRIDGE DECKS OF TWO TWIN STRUCTURES ON US-23 OVER SR-98 AND QU OUA CREEK IN MARION COUNTY NEAR THE TOWN OF WALDO. INCIDENTAL RESURFACING AND GUARDRAIL REPLACEMENTS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	3.47 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	0.13 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	4.90 ACRES

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2019 SPECIFICATIONS

OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

PLANS CERTIFIED BY:

NAME: *Kevin Fiant* DATE: 7-2-2020

DISTRICT 6
OHIO DEPT. OF TRANSPORTATION

APPROVED: *Michael R. Blaylock* DISTRICT DEPUTY DIRECTOR

DATE: 7/2/2020

APPROVED: _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

DATE: _____

FEDERAL PROJECT NO.
E170(477)

PID NO.
102332

CONSTRUCTION PROJECT NO.
-

RAILROAD INVOLVEMENT
NONE

MAR-23-1.85 / 2.04

1
112

WORK ZONE SPEED ZONES (WZSZ):

THE FOLLOWING WORK ZONE SPEED ZONE (WZSZ) SPEED LIMIT REVISION HAS BEEN APPROVED FOR USE ON THIS PROJECT WHEN WORK ZONE CONDITIONS AND FACTORS ARE MET AS DESCRIBED BELOW:

WZSZ REVISION NUMBER	COUNTY & ROUTE	DIRECTION
WZ-35653	MAR-23	NB/SB

POTENTIAL WZSZ LOCATIONS SHALL HAVE AN ORIGINAL (PRE-CONSTRUCTION) POSTED SPEED LIMIT OF 55 MPH OR GREATER, A QUALIFYING WORK ZONE CONDITION OF AT LEAST 0.5 MILES IN LENGTH, AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS, AND A WORK ZONE CONDITION IN PLACE THAT REDUCES THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS (I.E., LANE CLOSURE, LANE SHIFT, CROSSOVER, CONTRAFLOW AND/OR SHOULDER CLOSURE). THE LENGTH OF THE WORK ZONE CONDITION IS MEASURED FROM THE BEGINNING OF THE TAPER FOR THE SUBJECT WORK ZONE CONDITION IMPACTING THE TRAVEL LANES AND/OR SHOULDER TO THE END OF THE DOWNSTREAM TAPER, WHERE DRIVERS ARE RETURNED TO TYPICAL ALIGNMENT. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS IS REQUIRED TO BALANCE THE ADDITIONAL EXPOSURE CREATED BY INSTALLING AND REMOVING WZSZ SIGNING WITH THE TIME NEEDED TO COMPLETE THE WORK.

IF THE WORK ZONE MEETS THESE MINIMUM CRITERIA, IT SHALL BE ANALYZED FURTHER USING TABLE 1 TO THE RIGHT TO DETERMINE IF AND WHEN IT QUALIFIES FOR A SPEED LIMIT REDUCTION. DEPENDING ON THE ORIGINAL POSTED SPEED LIMIT, THE TYPE OF TEMPORARY TRAFFIC CONTROL USED, AND WHETHER OR NOT WORKERS ARE PRESENT, A WARRANTED WZSZ WILL VARY IN THE APPROVED SPEED LIMIT TO BE POSTED OVER TIME.

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATES THAT TWO DIRECTIONS OF A DIVIDED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION, A SPEED LIMIT REDUCTION IN THE DIRECTION OF WORK DOES NOT AUTOMATICALLY CONSTITUTE A SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION. EACH DIRECTION SHALL BE ANALYZED INDEPENDENTLY FROM EACH OTHER.

ALL WZSZs FLUCTUATE BETWEEN TWO APPROVED REDUCED SPEED LIMITS OR BETWEEN AN APPROVED REDUCED SPEED LIMIT AND THE ORIGINAL POSTED SPEED LIMIT. ONLY ONE OF TWO SIGNING STRATEGIES SHALL BE USED TO IMPLEMENT A WZSZ.

WZSZs USING DSL SIGN ASSEMBLIES SHALL BE IN ACCORDANCE WITH THIS NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.

ONLY ONE WARRANTED SPEED LIMIT APPLIES AT ANY ONE TIME; SPEED LIMIT REDUCTIONS ARE NOT CUMULATIVE. WZSZs SHALL NOT BE USED FOR MOVING/MOBILE ACTIVITIES, AS DEFINED IN OMTCD PART 6.

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORIGINAL, PRE-CONSTRUCTION, POSTED SPEED LIMIT. DO NOT USE A PRIOR OR CURRENT WORK ZONE SPEED LIMIT AS A LOOK UP VALUE IN THE TABLE. POSITIVE PROTECTION IS GENERALLY REGARDED AS PORTABLE BARRIER OR OTHER RIGID BARRIER IN USE ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WITHOUT POSITIVE PROTECTION IS GENERALLY REGARDED AS USING DRUMS, CONES, SHADOW VEHICLE, ETC., ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WORKERS ARE CONSIDERED AS BEING PRESENT WHEN ON-SITE, WORKING WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THE SPEED LIMIT DISPLAYED SHALL RETURN TO THE ORIGINAL POSTED SPEED LIMIT.

TABLE 1: WARRANTED WORK ZONE SPEED LIMITS (MPH) FOR WORK ZONES ON HIGH-SPEED (55 MPH OR GREATER) MULTI-LANE HIGHWAYS

ORIGINAL POSTED SPEED LIMIT	WITH POSITIVE PROTECTION		WITHOUT POSITIVE PROTECTION	
	WORKERS PRESENT	WORKERS NOT PRESENT	WORKERS PRESENT	WORKERS NOT PRESENT
70	60	65	55	65
65	55	60	50	60
60	55	60	50	60
55	50	55	45	55

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN PROVIDED AND THE TOTAL HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 808 - DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY
= 2 SIGNS FOR 6 MONTHS = 12 SNMT

ITEM 873 - WORK ZONE PAVEMENT MARKING, CLASS I:
WORK ZONE PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN ON SHEETS 24 -31 AND SHALL CONFORM TO SUPPLEMENTAL SPECIFICATION 873. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION, SIZE, AND TYPE OF WORK ZONE MARKINGS NEEDED MEETING THE REQUIREMENTS OF ITEM 614 BEFORE THE REMOVAL OR RESURFACING OBLITERATES THE EXISTING.

WORK ZONE PAVEMENT MARKINGS ARE NOT TO BE SUBSTITUTED FOR PERMANENT PAVEMENT MARKINGS.

ITEM 614 - WORK ZONE PAVEMENT MARKINGS, CLASS III, 642 PAINT:
TO RETURN TRAFFIC TO PRE-CONSTRUCTION LAYOUT FOLLOWING PHASE 1, THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED AND CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS AND AT TIMES AS DIRECTED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS PER THE REQUIREMENT OF C&MS 614.11:

- ITEM 614 - WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT = 2.03 MILE
- ITEM 614 - WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT = 1.60 MILE
- ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT = 279 FT
- ITEM 614 - WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT = 554 FT

WORK ZONE PAVEMENT MARKINGS ARE NOT TO BE SUBSTITUTED FOR PERMANENT PAVEMENT MARKINGS.

CONFLICTING PAVEMENT MARKINGS:
PRIOR TO PLACEMENT OF ANY WORK ZONE PAVEMENT MARKINGS, THE CONTRACTOR SHALL COMPLETELY OBLITERATE, AS PER SPEC. 641.10, ALL EXISTING PAVEMENT MARKINGS THAT WOULD CREATE CONFUSION OR CONFLICT WITH THE WORK ZONE PAVEMENT MARKINGS. PAYMENT FOR THIS COMPLETE REMOVAL SHALL BE INCLUDED IN ITEM 614 - MAINTAINING TRAFFIC.

WRECKER AND EMERGENCY VEHICLE ACCESS:
THE CONTRACTOR SHALL MAKE PROVISIONS TO ASSIST IN THE ACCESS OF WRECKERS AND EMERGENCY VEHICLES THROUGHOUT THE WORK ZONE. THIS MAY INCLUDE, BUT NOT LIMITED TO, PROVIDING FLAGGERS OR REMOVING SECTIONS OF BARRIER TO ALLOW EMERGENCY VEHICLES AND WRECKER TO MOVE THROUGH PORTIONS OF THE WORK ZONE TO REACH ACCIDENTS AND/OR BREAKDOWNS. THE INTENT IS TO MINIMIZE EXTENDED DELAYS TO THE TRAVELLING PUBLIC AND TO PROVIDE QUICKER RESPONSE TIMES FOR WRECKERS AND EMERGENCY VEHICLES. ALL AGENTS AND EMPLOYEES OF THE CONTRACTOR SHALL BE MADE AWARE OF THIS PROVISION BEFORE WORK BEGINS.

ALL ACTIVITIES THROUGHOUT THE WORK ZONE SHALL BE COORDINATED BY THE WORKSITE TRAFFIC SUPERVISOR AND THE ENGINEER.

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A:
PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, SHALL USE THE FLEXIBLE PAVEMENT DESIGN AS GIVEN IN C&MS 615.05. SHEETS 18 -19 SHOW THE PLACEMENT OF THIS PAVEMENT. PAVEMENT USED TO REBUILD SHOULDERS SHALL REMAIN IN PLACE AFTER CONSTRUCTION. PAVEMENT WITHIN THE MEDIAN USED TO CONSTRUCT THE CROSSOVERS SHALL BE REMOVED AND THE TOTAL PAVEMENT WIDTH SHALL BE BROUGHT BACK TO EXISTING EXCEPT FOR THE AREAS SHOWN ON THE PLAN SHEETS.

ITEM 622 - PORTABLE BARRIER, UNANCHORED
ITEM 622 - PORTABLE BARRIER, ANCHORED:
THIS WORK SHALL CONSIST OF FURNISHING, INSTALLING, MAINTAINING, AND SUBSEQUENTLY REMOVING PORTABLE BARRIER AT THE LOCATIONS SHOWN ON SHEETS 25-26 AND 29 - 30 . FOR DETAILS, SEE SCD RM-4.3 AND PCB-91.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND SHALL BE PAID FOR AT THE CONTRACT PRICE.

USE OF WEIGHTED CHANNELIZER:
THE WEIGHTED CHANNELIZER MAY BE USED IN ACCORDANCE WITH THIS SECTION. THE WEIGHTED CHANNELIZER SHALL BE PREDOMINANTLY ORANGE IN COLOR AND SHALL BE MADE OF LIGHTWEIGHT, FLEXIBLE, AND DEFORMABLE MATERIAL. THEY SHALL BE AT LEAST 42 INCHES IN HEIGHT WITH A WEIGHTED BASE. THEY MAY HAVE A HANDLE OR LIFTING DEVICE WHICH EXTENDS ABOVE THE 42" MINIMUM HEIGHT.

THE MARKINGS ON THE WEIGHTED CHANNELIZER SHALL BE HORIZONTAL, CIRCUMFERENTIAL, ALTERNATING ORANGE AND WHITE RETROREFLECTIVE STRIPES 6 INCHES WIDE. EACH WEIGHTED CHANNELIZER SHALL HAVE A MINIMUM OF TWO ORANGE AND TWO WHITE STRIPES. ANY NON-RETROREFLECTIVE SPACES BETWEEN THE HORIZONTAL ORANGE AND WHITE STRIPES SHALL NOT EXCEED 2 INCHES WIDE. THE WEIGHTED CHANNELIZER SHALL HAVE A 4-INCH MINIMUM WIDTH, REGARDLESS OF ORIENTATION.

USE OF WEIGHTED CHANNELIZERS ON FREEWAYS AND MULTILANE HIGHWAYS SHALL BE LIMITED TO SHORT-TERM OPERATION FOR EITHER DAY OR NIGHT. UPON COMPLETION OF WORK, THE WEIGHTED CHANNELIZERS SHALL BE REMOVED. THE WEIGHTED CHANNELIZERS MAY AGAIN BE PLACED ON THE HIGHWAY WHEN THE WORK IS TO RESUME ON THE FOLLOWING DAY OR NIGHT. ANY LANE CLOSURE USING CHANNELIZATION DEVICES, EXPECTED TO REMAIN FOR MORE THAN TWELVE HOURS, SHALL REQUIRE THE USE OF DRUMS OR BARRIERS.

WHEN USED AT NIGHT, WEIGHTED CHANNELIZERS SHALL ONLY BE PLACED IN THE TANGENT AREA. THE TANGENT AREA IS DEFINED AS THE AREA AFTER THE TRANSITION TAPER WHERE THE WORK TAKES PLACE. DRUMS SHALL BE USED IN THE TRANSITION TAPERS FOR NIGHT OPERATIONS. MAXIMUM SPACING OF THE WEIGHTED CHANNELIZER SHALL BE 40 FEET AT NIGHT.

STEPS SHOULD BE TAKEN TO ENSURE THAT THE WEIGHTED CHANNELIZERS WILL NOT BE BLOWN OVER OR DISPLACED BY WIND OR MOVING TRAFFIC. BALLASTS SHOULD NOT PRESENT A HAZARD IF THE WEIGHTED CHANNELIZERS ARE INADVERTENTLY STRUCK, NOR SHOULD THEY AFFECT THE VISIBILITY OF THE WEIGHTED CHANNELIZERS. ALL BALLASTS USED SHOULD BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

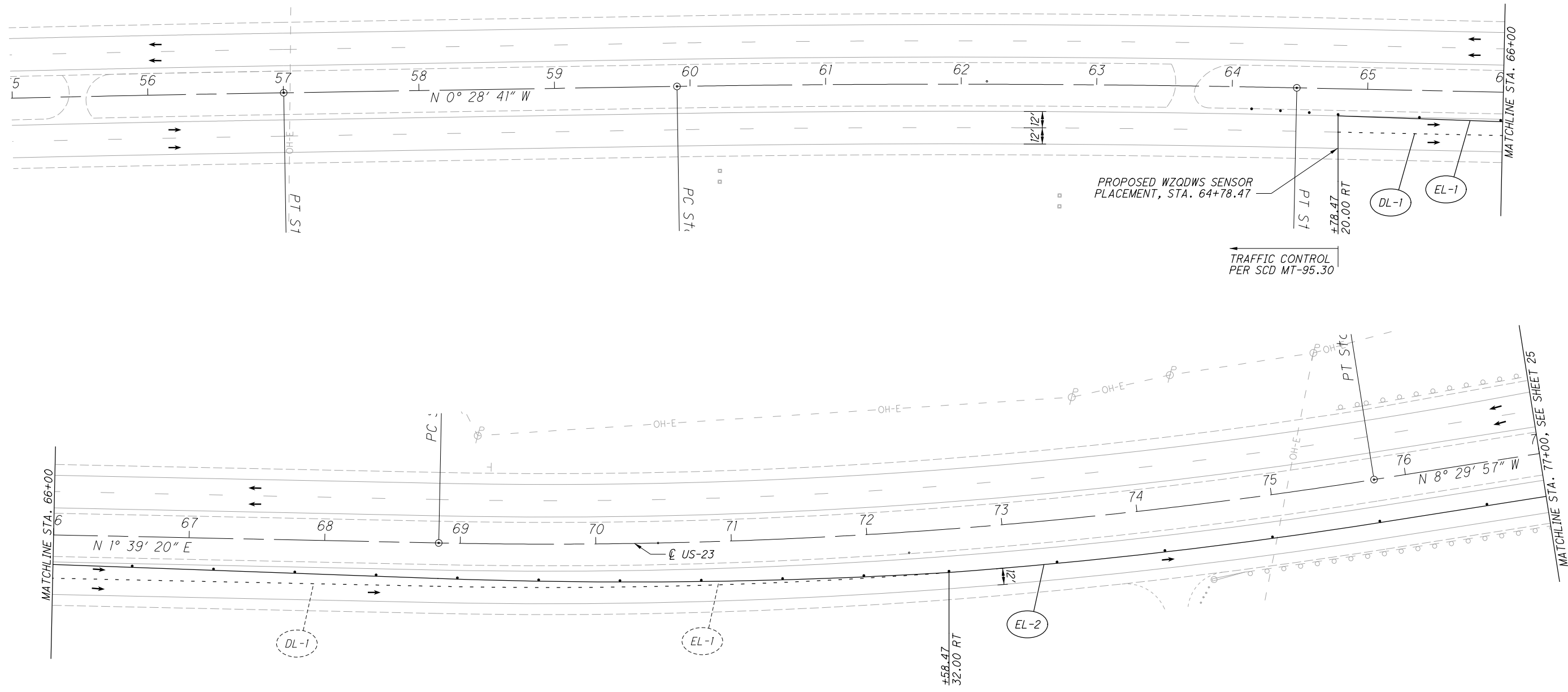
PAYMENT SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

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SHEET	STATION		PHASE	202	411	614	614	614	614	614	615	622	622	873	873	873
	FROM	TO		PAVEMENT REMOVED, ASPHALT SY	STABILIZED CRUSHED AGGREGATE CY	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL) EACH	WORK ZONE RAISED PAVEMENT MARKER EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY EACH	OBJECT MARKER, ONE WAY EACH	OBJECT MARKER, TWO WAY EACH	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A SY	PORTABLE BARRIER, UNANCHORED FT	GLARE SCREEN FT	WORK ZONE EDGE LINE, CLASS I MILE	WORK ZONE CHANNELIZING LINE, CLASS I FT	WORK ZONE DOTTED LINE, CLASS I FT
18	55+00.00	154+00.00		3741	51						5234					
19	55+00.00	154+00.00		2941	54						4363					
24	66+00.00	88+00.00	1											0.45		783
25	88+00.00	110+00.00	1			2		52	5	45		2500	2500	1.83		
26	110+00.00	132+00.00	1			1	26	7	6			310	310	0.58	470	563
27	132+00.00	154+00.00	1											0.28		779
28	55+00.00	77+00.00	2											0.15		784
29	77+00.00	99+00.00	2			1	21	19		17		820	820	2.15	392	416
30	99+00.00	121+00.00	2			2		42	12	28		1960	1960	0.62		
31	121+00.00	143+00.00	2											0.15		778
TOTALS CARRIED TO GENERAL SUMMARY				6682	105	6	47	120	23	90	9597	5590	5590	6.21	862	4103

MAINTENANCE OF TRAFFIC SUBSUMMARY

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CALCULATED
KLM
CHECKED
MAK

0 40 80
HORIZONTAL
SCALE IN FEET

CROSSOVER PHASE 1
STA. 55+00 TO STA. 77+00

REF NO.	STATION		DIRECTION	ITEMS												
	FROM	TO		614	614	614	614	614	622	622	873	873	873			
			WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER	BARRIER REFLECTOR, TYPE 1, ONE WAY	OBJECT MARKER, ONE WAY	OBJECT MARKER, TWO WAY	PORTABLE BARRIER, UNANCHORED	GLARE SCREEN	WORK ZONE EDGE LINE, CLASS I	WORK ZONE CHANNELIZING LINE, CLASS I	WORK ZONE DOTTED LINE, CLASS I				
			EACH	EACH	EACH	EACH	EACH	FT	FT	MILE	FT	FT				
EL-1	64+78.47	72+58.47	NB							0.15						
DL-1	64+78.47	72+58.47	NB									783				
EL-2	72+58.47	88+18.47	NB							0.30						
TOTALS CARRIED TO SHEET 15										0.45		783				

LEGEND

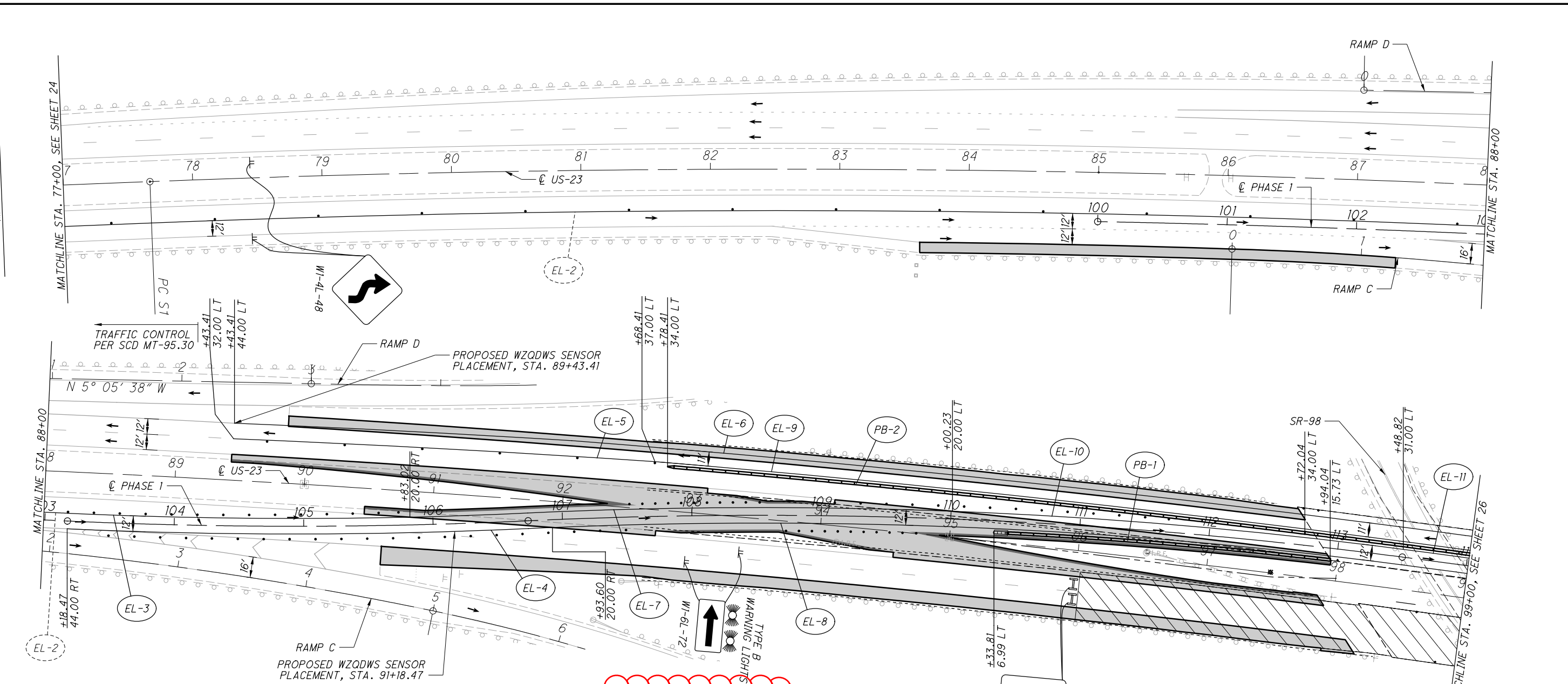
- PAVEMENT FOR MAINTAINING TRAFFIC
- WORK AREA
- CHANNELIZING LINE
- DOTTED LINE
- EDGE LINE
- PORTABLE BARRIER

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MATCHLINE STA. 77+00

MATCHLINE STA. 88+00

MATCHLINE STA. 99+00



REF NO.	STATION		DIRECTION	MARKING TYPE					GLARE SCREEN		WORK ZONE		
	FROM	TO		WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER	BARRIER REFLECTOR, TYPE 1, ONE WAY	OBJECT MARKER, ONE WAY	OBJECT MARKER, TWO WAY	PORTABLE BARRIER, UNANCHORED	GLARE SCREEN	WORK ZONE EDGE LINE, CLASS I	WORK ZONE CHANNELIZING LINE, CLASS I	WORK ZONE DOTTED LINE, CLASS I
			EACH	EACH	EACH	EACH	EACH	FT	FT	MILE	FT	FT	
EL-3	88+18.47	90+83.02	NB							0.05			
EL-4	88+18.47	91+93.60	NB							0.07			
EL-7	90+83.02	95+00.23	NB							0.08			
EL-8	91+93.60	115+54.68	NB							0.42			
EL-10	95+00.23	98+48.82	NB							0.07			
PB-1	95+33.81	97+94.04	NB	1		6	5	250	250				
EL-11	98+48.82	109+60.26	NB							0.21			
EL-5	89+43.41	92+68.41	SB							0.06			
EL-6	89+43.41	104+98.09	SB							0.30			
EL-9	92+68.41	122+74.59	SB							0.57			
PB-2	92+78.41	115+39.59	SB	1		46	45	2250	2250				
TOTALS CARRIED TO SHEET 15				2		52	5	45	2500	2500	1.83		

LEGEND

- PAVEMENT FOR MAINTAINING TRAFFIC
- WORK AREA
- CHANNELIZING LINE
- DOTTED LINE
- EDGE LINE
- PORTABLE BARRIER

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HORIZONTAL SCALE IN FEET

CROSSOVER PHASE 1

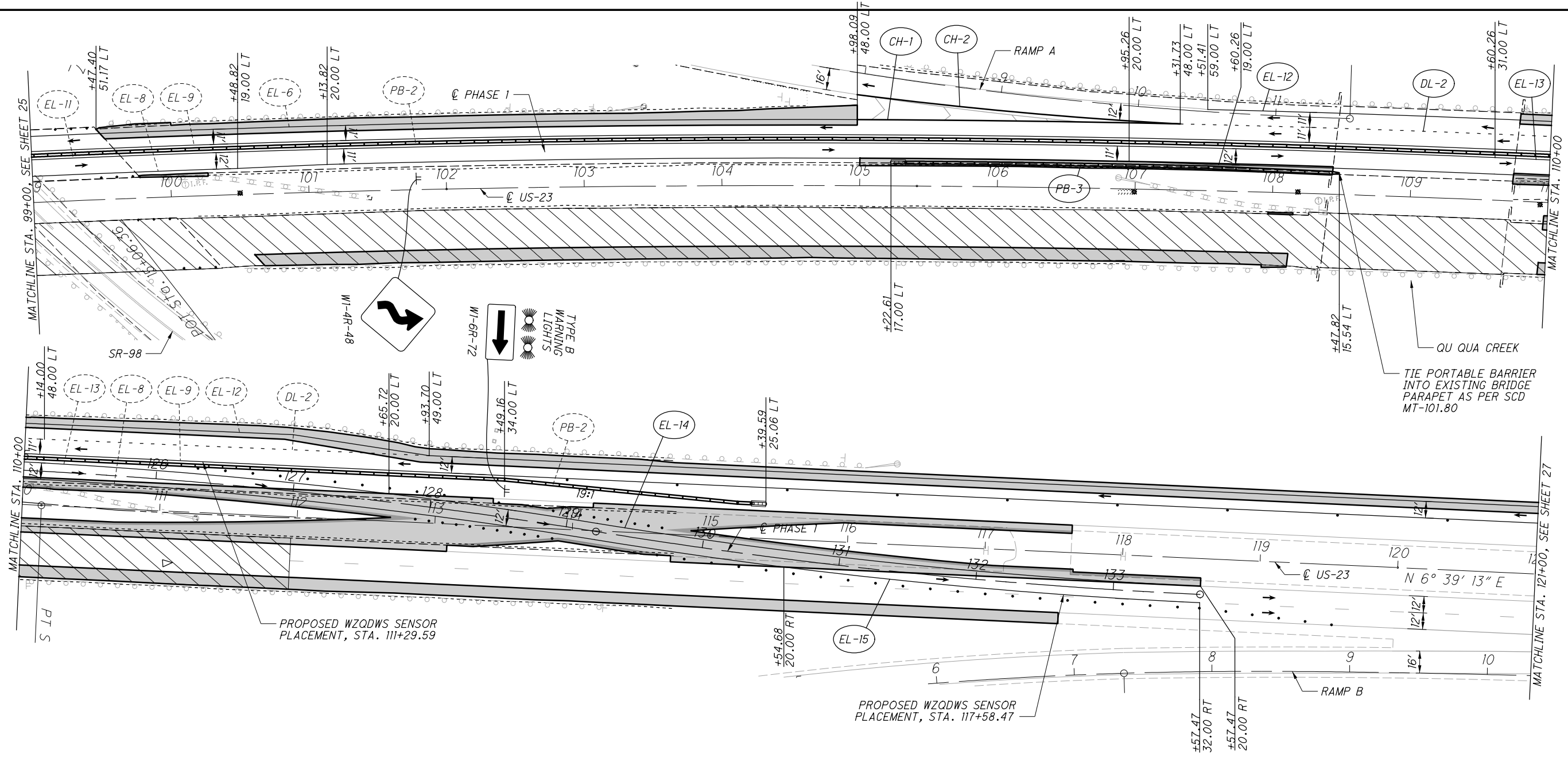
STA. 77+00 TO STA. 99+00

MAR-23-1.85 / 2.04

25

112

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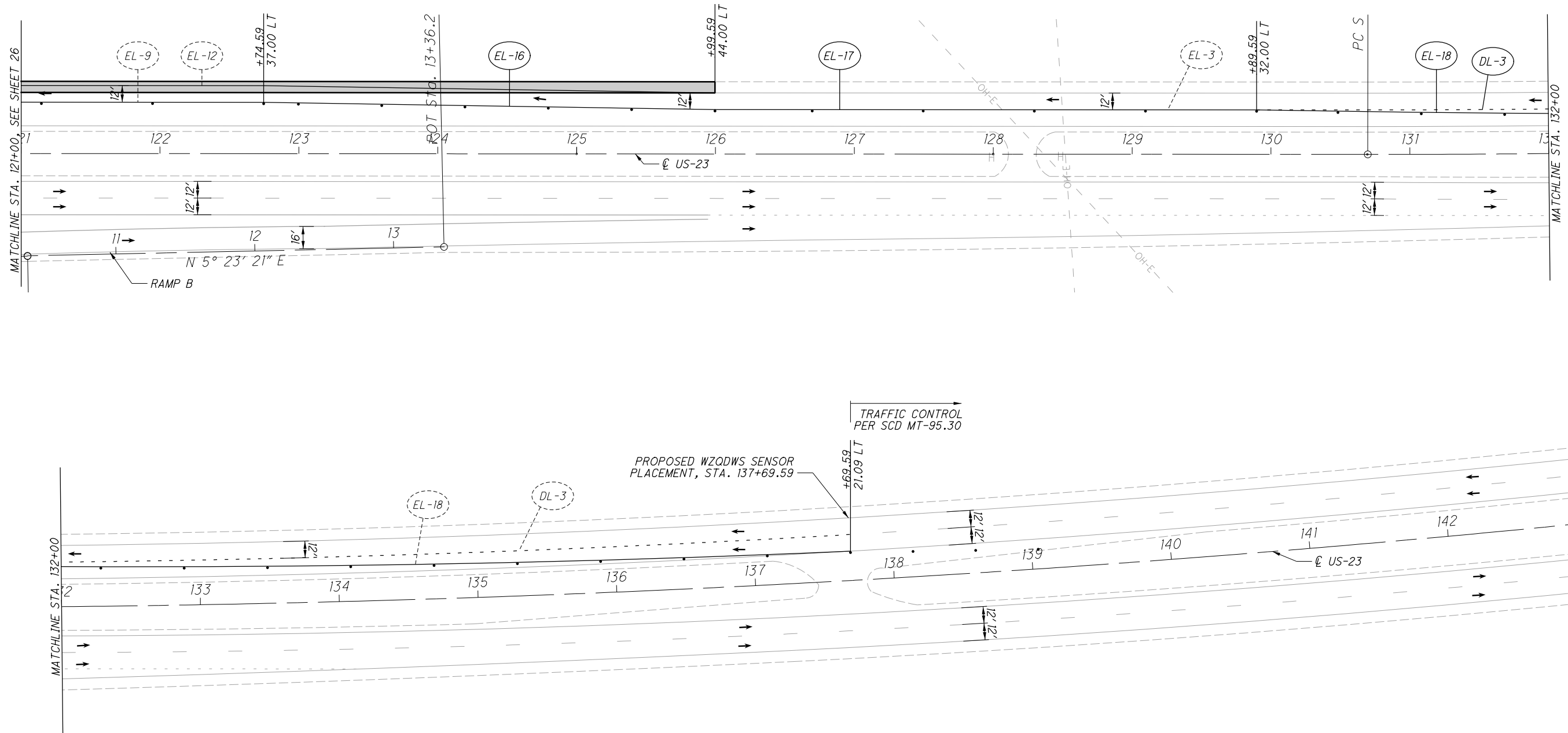
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CROSSOVER PHASE 1
STA. 99+00 TO STA. 121+00

REF NO.	STATION		DIRECTION	614		614		614		614		614		622		622		873		873		873	
	FROM	TO		WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER	BARRIER REFLECTOR, TYPE 1, ONE WAY	OBJECT MARKER, ONE WAY	OBJECT MARKER, TWO WAY	PORTABLE BARRIER, UNANCHORED	GLARE SCREEN	WORK ZONE EDGE LINE, CLASS I	WORK ZONE CHANNELIZING LINE, CLASS I	WORK ZONE DOTTED LINE, CLASS I	EACH	EACH	EACH	EACH	EACH	FT	FT	MILE	FT	FT
PB-3	105+22.61	108+47.82	NB	1		7	6											310	310	0.06			
EL-13	109+60.26	112+65.72	NB																	0.11			
EL-14	112+65.72	118+57.47	NB																	0.06			
EL-15	115+54.68	118+57.47	NB																				
CH-1	104+98.09	107+31.73	SB																		235		
CH-2	104+98.09	107+31.73	SB																		235		
DL-2	107+31.73	112+93.70	SB																			563	
EL-12	107+51.41	125+99.59	SB																		0.35		
TOTALS CARRIED TO SHEET 15				1	26	7	6											310	310	0.58	470	563	

- LEGEND**
- PAVEMENT FOR MAINTAINING TRAFFIC
 - WORK AREA
 - CHANNELIZING LINE
 - DOTTED LINE
 - EDGE LINE
 - PORTABLE BARRIER

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CALCULATED 0 40 80
KLM
CHECKED
MAK

20
HORIZONTAL
SCALE IN FEET

N

CROSSOVER PHASE 1
STA. 121+00 TO STA. 143+00

REF NO.	STATION		DIRECTION	ITEMS												
	FROM	TO		614	614	614	614	614	622	622	873	873	873			
			WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER	BARRIER REFLECTOR, TYPE 1, ONE WAY	OBJECT MARKER, ONE WAY	OBJECT MARKER, TWO WAY	PORTABLE BARRIER, UNANCHORED	GLARE SCREEN	WORK ZONE EDGE LINE, CLASS I	WORK ZONE CHANNELIZING LINE, CLASS I	WORK ZONE DOTTED LINE, CLASS I				
			EACH	EACH	EACH	EACH	EACH	FT	FT	MILE	FT	FT				
EL-16	122+74.59	125+99.59	SB							0.06						
EL-17	125+99.59	130+69.69	SB							0.07						
DL-3	129+89.59	137+69.59	SB										779			
EL-18	130+69.69	137+69.59	SB							0.15						
TOTALS CARRIED TO SHEET 15										0.28			779			

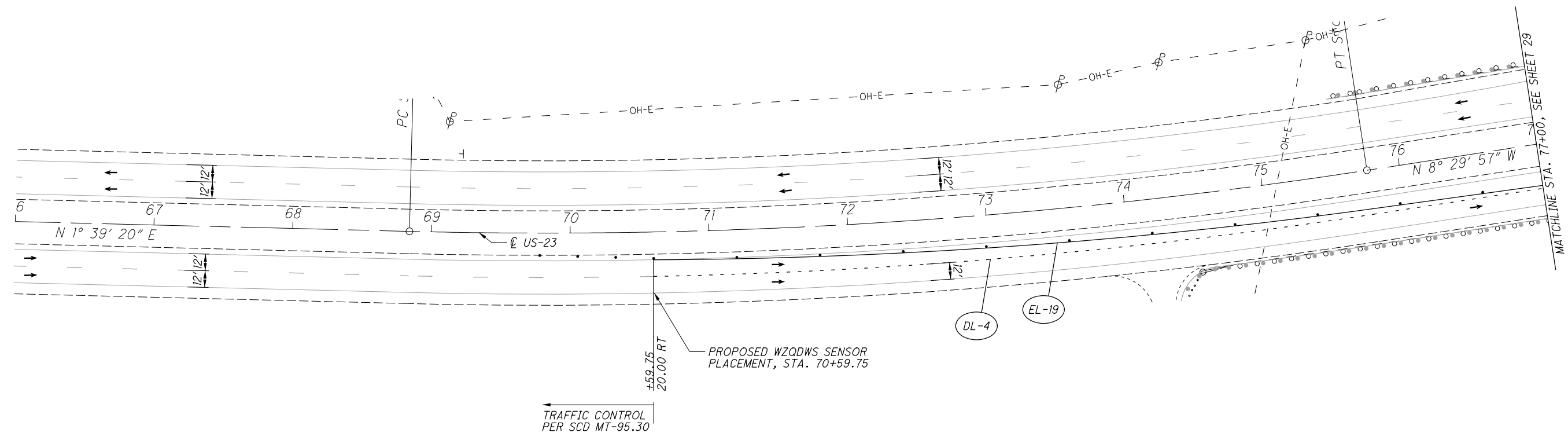
LEGEND

- PAVEMENT FOR MAINTAINING TRAFFIC
- WORK AREA
- CHANNELIZING LINE
- DOTTED LINE
- EDGE LINE
- PORTABLE BARRIER

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CALCULATED
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CHECKED
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HORIZONTAL SCALE IN FEET



REF NO.	STATION		DIRECTION	ITEMS												
	FROM	TO		614	614	614	614	614	622	622	873	873	873			
				EACH	EACH	EACH	EACH	EACH	FT	FT	MILE	FT	FT			
EL-19	70+59.75	78+39.75	NB								0.15					
DL-4	70+59.75	78+39.75	NB											784		
TOTALS CARRIED TO SHEET 15											0.15			784		

LEGEND

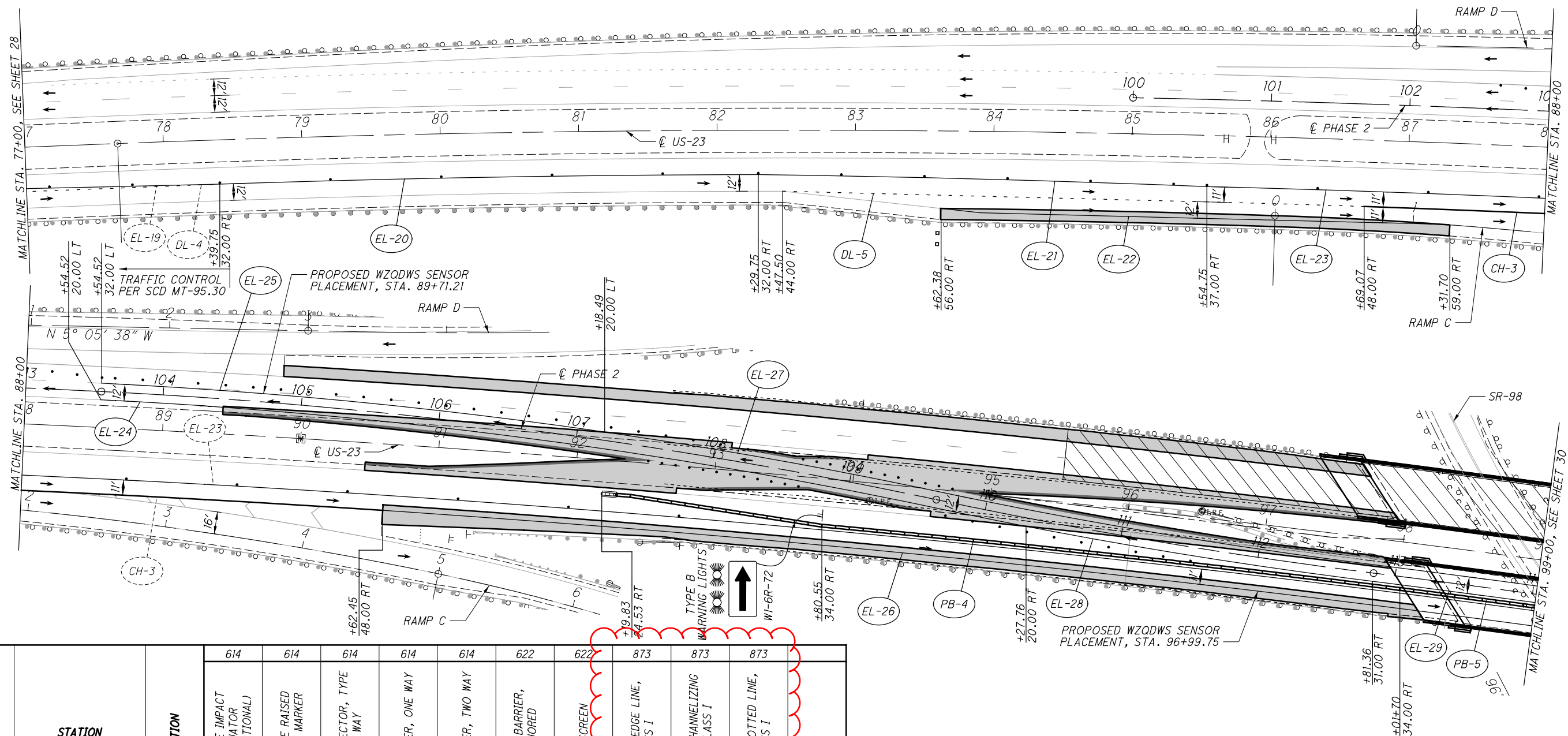
- PAVEMENT FOR MAINTAINING TRAFFIC
- WORK AREA
- CHANNELIZING LINE
- DOTTED LINE
- EDGE LINE
- PORTABLE BARRIER

CROSSOVER PHASE 2
STA. 55+00 TO STA. 77+00

MAR-23-1.85 / 2.04

28
112

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CALCULATED
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CHECKED
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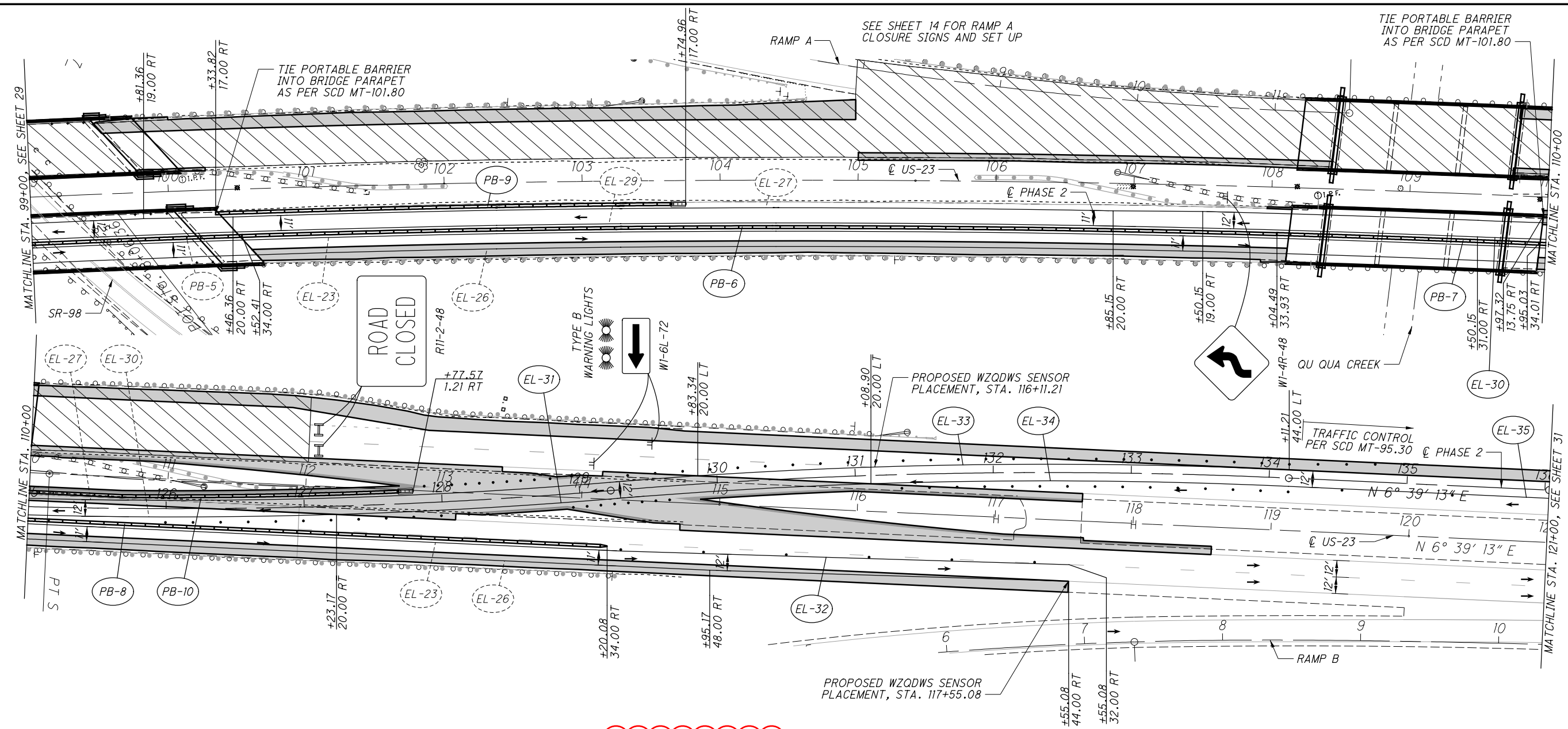
**CROSSOVER PHASE 2
STA. 77+00 TO STA. 99+00**

REF NO.	STATION		DIRECTION	614		614		614		614		622		622		873		873		873	
	FROM	TO		EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	MILE	FT	FT	FT	FT	
EL-20	78+39.75	82+29.75	NB													0.07					
EL-21	82+29.75	85+54.75	NB													0.06					
DL-5	82+47.50	86+69.07	NB																	416	
EL-22	83+62.38	87+31.70	NB													0.07					
EL-23	85+54.75	114+30.08	NB													0.54					
CH-3	86+69.07	90+62.45	NB		21																
EL-26	90+62.45	117+55.08	NB													0.51					
PB-4	92+19.83	98+01.71	NB	1		12			11	570	570										
PB-5	98+01.71	100+52.41	NB			6			5	250	250										
EL-24	88+54.52	95+27.76	SB													0.13					
EL-25	88+54.52	92+18.49	SB													0.07					
EL-27	92+18.49	114+83.34	SB													0.43					
EL-28	95+27.76	97+81.36	SB													0.05					
EL-29	97+81.36	109+50.15	SB													0.22					
TOTALS CARRIED TO SHEET 15				1	21	19			17	820	820				2.15	392	416				

LEGEND

- PAVEMENT FOR MAINTAINING TRAFFIC
- WORK AREA
- CHANNELIZING LINE
- DOTTED LINE
- EDGE LINE
- PORTABLE BARRIER

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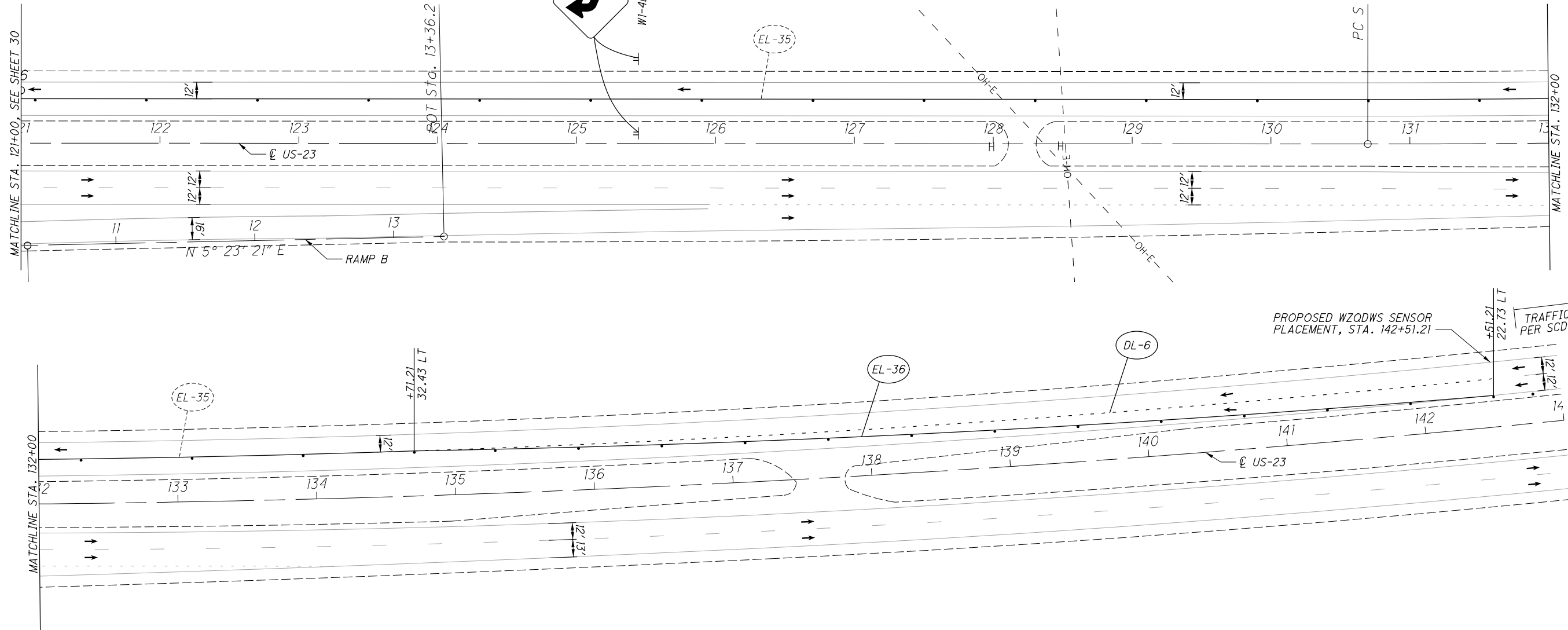
CROSSOVER PHASE 2
STA. 99+00 TO STA. 121+00

REF NO.	STATION		DIRECTION	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)		WORK ZONE RAISED PAVEMENT MARKER		BARRIER REFLECTOR, TYPE 1, ONE WAY		OBJECT MARKER, ONE WAY		OBJECT MARKER, TWO WAY		PORTABLE BARRIER, UNANCHORED		GLARE SCREEN		WORK ZONE EDGE LINE, CLASS I		WORK ZONE CHANNELIZING LINE, CLASS I		WORK ZONE DOTTED LINE, CLASS I	
	FROM	TO		EACH	EACH	EACH	EACH	EACH	EACH	FT	FT	MILE	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
PB-6	100+52.41	108+04.49	NB					15			15			750	750								
PB-7	108+04.49	109+95.03	NB					4			4			190	190								
PB-8	109+95.03	114+20.08	NB					8			8			420	420								
EL-32	114+30.08	117+55.08	NB																0.06				
PB-9	100+33.82	103+74.96	SB	1				8	7					330	330								
EL-30	109+50.15	112+23.17	SB								8	7							0.05				
PB-10	109+97.32	112+77.55	SB	1							6	5		270	270								
EL-31	112+23.17	116+08.90	SB																0.07				
EL-33	114+83.34	119+11.21	SB																0.08				
EL-34	116+08.90	119+11.21	SB																0.06				
EL-35	119+11.21	134+71.21	SB																0.30				
TOTALS CARRIED TO SHEET 15				2				42	12		28			1960	1960				0.62				

LEGEND

	PAVEMENT FOR MAINTAINING TRAFFIC
	WORK AREA
	CHANNELIZING LINE
	DOTTED LINE
	EDGE LINE
	PORTABLE BARRIER

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HORIZONTAL
SCALE IN FEET

CROSSOVER PHASE 2
STA. 121+00 TO STA. 143+00

REF NO.	STATION		DIRECTION													
	FROM	TO		614	614	614	614	614	622	622	873	873	873			
			WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER	BARRIER REFLECTOR, TYPE 1, ONE WAY	OBJECT MARKER, ONE WAY	OBJECT MARKER, TWO WAY	PORTABLE BARRIER, UNANCHORED	GLARE SCREEN	WORK ZONE EDGE LINE, CLASS I	WORK ZONE CHANNELIZING LINE, CLASS I	WORK ZONE DOTTED LINE, CLASS I				
			EACH	EACH	EACH	EACH	EACH	FT	FT	MILE	FT	FT				
EL-36	134+71.21	142+51.21	SB							0.15						
DL-6	134+71.21	142+51.21	SB									778				
TOTALS CARRIED TO SHEET 15										0.15		778				

LEGEND

- PAVEMENT FOR MAINTAINING TRAFFIC
- WORK AREA
- CHANNELIZING LINE
- DOTTED LINE
- EDGE LINE
- PORTABLE BARRIER

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SHEET NUMBER	PARTICIPATION			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.		
	01/NHS/BR	02/SAF/OT									
6-7	8-13	15	34	35	36						
TRAFFIC CONTROL (CONT.)											
					1.81	1.81	644	00104	1.81	MILE	EDGE LINE, 6"
					1.74	1.74	644	00204	1.74	MILE	LANE LINE, 6"
					896	896	644	00404	896	FT	CHANNELIZING LINE, 12"
					135	135	644	00720	135	FT	CHEVRON MARKING
					881	881	644	01510	881	FT	DOTTED LINE, 6"
					0.32	0.32	646	10010	0.32	MILE	EDGE LINE, 6"
					0.16	0.16	646	10110	0.16	MILE	LANE LINE, 6"
					181	181	646	20504	181	FT	DOTTED LINE, 6"
STRUCTURE OVER 20 FOOT SPAN (SFN 5100305 & 5100364)											
SEE SHEET 62											
STRUCTURE OVER 20 FOOT SPAN (SFN 5100399 & 5100429)											
SEE SHEET 91											
MAINTENANCE OF TRAFFIC											
	100					100	614	11110	100	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE
		6				6	614	12336	6	EACH	WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)
	LS					LS	614	12421	LS		DETOUR SIGNING, AS PER PLAN
	4					4	614	12484	4	EACH	WORK ZONE INCREASED PENALTIES SIGN
	2					2	614	12756	2	EACH	WORK ZONE CROSSOVER LIGHTING SYSTEM
		47				47	614	12800	47	EACH	WORK ZONE RAISED PAVEMENT MARKER
		120				120	614	13310	120	EACH	BARRIER REFLECTOR, TYPE 1, ONE-WAY
		23				23	614	13350	23	EACH	OBJECT MARKER, ONE WAY
		90				90	614	13360	90	EACH	OBJECT MARKER, TWO WAY
	15					15	614	18601	15	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN
	2.03					2.03	614	20560	2.03	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT
	1.60					1.60	614	22360	1.60	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT
	279					279	614	23690	279	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT
	554					554	614	24612	554	FT	WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT
						LS	615	10000	LS		ROADS FOR MAINTAINING TRAFFIC
		9597				9597	615	20000	9597	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A
		5590				5590	622	4100	5590	FT	PORTABLE BARRIER, UNANCHORED
		5590				5590	622	40000	5590	FT	CLARE SCREEN
		6				6.21	873	22000	6.21	MILE	WORK ZONE EDGE LINE, CLASS I
		862				862	873	23000	862	FT	WORK ZONE CHANNELIZING LINE, CLASS I
		4103				4103	873	27000	4103	FT	WORK ZONE DOTTED LINE, CLASS I
	12					12	808	18700	12	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY
	36					36	896	00010	36	SNMT	PORTABLE NON-INTRUSIVE TRAFFIC SENSOR, CLASS I
	12					12	896	00021	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN
INCIDENTALS											
						LS	108	30000	LS		CPM PROGRESS SCHEDULE SHORT DURATION PROJECTS
						LS	614	11000	LS		MAINTAINING TRAFFIC
						7	619	16010	7	MNTH	FIELD OFFICE, TYPE B
						LS	623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN
						LS	624	10000	LS		MOBILIZATION

GENERAL SUMMARY

MAR - 23 - 1.85 / 2.04

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