:UY-271-06.13

<u>Item 422 – Asphalt Concrete, Misc.: Pressure Relief Joint Repair (Type A or C)</u>

This item consists of the removal and replacement of existing asphalt concrete within existing Pressure Relief Joints, Type A or Type C, as directed by the Engineer. Perform this work prior to the planning operation. The depth of the repair shall extend from the top of the existing asphalt surface to the top of the existing sleeper slab (Type A) or the bottom of the existing concrete pavement (Type C). Estimated widths and depths are shown on Sheet 37. Exact locations and existing widths shall be determined by exploratory removal under Item 251 – Partial Depth Pavement Repair (442), As Per Plan C.

Use replacement materials and reconstruct the pressure relief joint in conformance with the notes and details of Standard Drawing BP-2.3 (Type A) or BP-2.4 (Type C).

The following estimated quantities have been carried to the General Summary:

Item 519 – Patching Concrete Bridge Deck – Type A

This item is provided to perform spot repairs on existing bridge approach slabs within the project limits in accordance with PN 512. Repair all existing asphalt concrete patches and existing spalls with concrete. In addition, repair any additional unsound areas as determined by the Engineer. The following estimated quantities are provided for use as directed by the engineer:

Location	Item 519 Patching Concrete Bridge Deck – Type A (Sq Yd)
CUY-271-0720 L/R	12.4
CUY-271-0885 L/R	1.2
CUY-271-0916 L/R	8.5
CUY-271-0926 L/R	5.9
Total Carried to General Summary	28

Traffic Control

Pavement Markings

Auxiliary markings shall be located and installed as per Standard Drawing TC-71.10

Permanent Pavement Markings on Bridges

Proposed pavement markings on bridges shall be placed on top of existing markings.

Raised Pavement Markers

Install raised pavement markers for lane lines at a spacing of eighty feet (80') center-to-center.

<u>Item 621 – Raised Pavement Marker Removed</u>

This item shall include the removal and disposal of existing RPMs.

The following estimated quantity has been carried to the General Summary:

Item 621 - Raised Pavement Marker Removed........... 1,350 Each

Detection Maintenance

If vehicle detection becomes unexpectedly disabled, requires modification, or is scheduled to be temporarily removed during the construction project, the Contractor shall immediately notify the Project Engineer and District Traffic Engineer.

If the loss of vehicle detection is known prior to the start of construction, it shall be discussed at the preconstruction meeting. At such time, the District Traffic Engineer shall advise the Project Engineer and Contractor on the appropriate action to rectify any loss of vehicle detection. This may include placing the traffic signal on minimum or maximum recall, modifying the minimum green times, and removing the malfunctioning detection from service. Where nonintrusive detection (i.e. video, radar) already exists, the Contractor shall insure that detection is operating and maintained by reconfiguring the detection units accordingly during all construction phases. This is to avoid the signal from maxing out the effected signal phase and creating unnecessary delays.

Locations where non-intrusive detection is proposed and the existing vehicle detection is to be abandoned, the non-intrusive vehicle detection shall be installed, configured and made fully functional prior to the existing detection being disabled. The Contractor shall continue to maintain and modify the detection until final acceptance of the traffic signal. This is to ensure vehicle detection remains fully functional throughout construction.

Item 632 - Detector Loop, As Per Plan

All stop line inductance detector loops shown in the plans shall be the powerhead configuration shown on TC-82.10. The width shall be as specified on TC-82.10 and the length shall match the existing detector loop length, with a maximum length of 35'. The stop line detector loops shall not be wired to any other loops and shall have their own detector channel. The location of these loops shall be such that the powerhead is located at the stop line, not past it.

All dilemma zone inductance detector loops called for in the plans shall be the Angular Design Detection (A.D.D.) loop as shown on TC-82.10. Dimensions shall be as specified on TC-82.10.

System loops shall be as depicted in the plans.

All stop line detection shall be tested for a bicycle target and all dilemma detection zones shall be tested for a motorcycle target.

Install detector loops in the surface course within 72 hours of its placement.

When replacing the loop detectors, the loop detector wire shall be replaced to the pull box or pole, whichever is applicable, under Item 632 and TC-82.10. The new cable splice kits shall be included in this pay item.

The Contractor shall contact the Project Engineer and Bill Gerber, (216) 312-0084, District 12 Traffic Engineer, seven (7) days prior to planing through an intersection to adjust signal operation as needed.

The District 12 Traffic Engineer shall concur with the location of the replacement loops.

The following estimated quantity has been carried to the General Summary for use as described above:

632, Detector Loop, As Per Plan 9 Each

Detector Loop Locations

	Permitted Ramp Closures,	632
Reference No.	Lane Reductions Location	6'X20' Loops Size (Each)
L-1	Ramp G1 (Richmond Rd.) All Lanes	3
L-2	Ramp F4 (Chagrin Blvd.) All Lanes	3
L-3	Ramp F3 (Chagrin Blvd.) All Lanes	3
Total Carrie	ed to General Summary	9

DESIGN AGEN



DESIGNER

JDA

REVIEWER

EJK 05/24/23

PROJECT ID

105744

SHEET TOTAL

11 38

Item 614 – Work Zone Pavement Markings

The following estimated quantities have been carried to the General Summary to be used as directed by the Engineer for work zone pavement markings per the requirements of CMS 614.04 and 614.11. Place temporary markings at the same locations as the proposed permanent pavement markings.

Work zone temporary marking widths shall be as given in CMS 614 or 641.

After the planing is completed. use the following temporary markings:

	Item 614 –	Work Zone	Lane Line, Class I, 6", 642 F	^p aint	19.02 M	<u>ile</u>
	Item 614-	Work Zone	Edge Line, Class I, 6", 642 F	Paint Mark	20.47 M	<u>île</u>
	Item 614 -	Work Zone	Channelizing Line, Class I, 1	12", 642 Paint	21,138 F	<u>-t</u>
	Item 614 -	Work Zone	Dotted Line, Class I, 6", 642	Paint	13,201 F	<u>=t</u>
٨	ltem 614 →	Work Zone	Crosswalk Line, Class 1, 12"	7642 Paint	<u> </u>	
	Item 614 -	Work Zone	Stop Line, Class I, 642 Pain	t	<u>265 l</u>	<u>Ft</u>
			Transverse/Diagonal Line, C			
			Arrow, Class I, 642 Paint			_
						_

After the surface course is placed, use the following temporary markings:

Item 614 – Work Zone Lane Line, Class III, 6", 642 Paint	<u>19.02 Mile</u>
Item 614 - Work Zone Edge Line, Class III, 6", 642 Raint	20.47 Mile
Item 614 – Work Zone Channelizing Line, Class III, 12", 642 Pair	nt 21,138 Ft
Item 614 – Work Zone Dotted Line, Class III, 6", 642 Paint	
Item 614 - Work Zone Crosswalk Line, Class I, 12", 642 Paint	1,256 Ft
Item 614 – Work Zone Stop Line, Class III, 642 Paint	<u>265 Ft</u>
Item 614 – Work Zone Transverse/Diagonal Line, Class III, 642 F	Paint… 312 Ft
Item 614 – Work Zone Arrow, Class III, 642 Paint	44 Each

Permanent Pavement Markings

After placing the surface course, the Contractor may place permanent pavement marking instead of placing work zone pavement markings, which shall be non-performed at these locations.

Item 614 – Portable Changeable Message Signs, As Per Plan

The Contractor shall furnish, install, maintain and remove, when no longer needed, a changeable message sign. The sign shall be of a type shown on a list of approved PCMS units available on the Office of Materials Management web page. The list contains Class A and B units with minimum legibility distances of 800 feet and 650 feet, respectively.

Each sign shall be trailer-mounted and equipped with a functional dimming mechanism, to dim the sign during darkness, and a tamper and vandal proof enclosure. Each sign shall be provided with appropriate training and operation instructions to enable on-site personnel to operate and troubleshoot the unit. The sign shall also be capable of being powered by an electrical service drop from a local utility company. The PCMS shall be delineated in accordance with CMS 614.03.

Placement, operation, maintenance and all activation of the signs by the Contractor shall be as directed by the Engineer. The PCMS shall be located in a highly visible position yet protected from traffic. The Contractor shall, at the direction of the Engineer, relocate the PCMS to improve visibility or accommodate changed conditions. When not in use, the PCMS shall be turned off. Additionally, when not in use for extended periods of time, the PCMS shall be turned away from all traffic.

The Engineer shall be provided access to each sign unit and shall be provided with appropriate training and operation instructions to enable ODOT personnel to operate and troubleshoot the unit, and to revise sign messages, if necessary.

All messages to be displayed on the sign will be provided by the Engineer. A list of all required pre-programmed messages will be given to the Contractor at the project preconstruction conference. The sign shall have the capability to store up to

99 messages. Message memory or pre-programmed displays shall not be lost as a result of power failures to the on-board computer. The sign legend shall be capable of being changed in the field. Three-line presentation formats with up to six message phases shall be supported. PCMS format shall permit the complete message for each phase to be read at least twice.

The PCMS shall contain an accurate clock and programming logic which will allow the sign to be activated, deactivated or messages changed automatically at different times of the day for different days of the week.

The PCMS shall have a Web-Based Communication System that will allow the message board to be changed or programmed remotely. This system shall be password protected and may be operated from a computer or have an application that can be operated from a cell phone, android or I-phone. The Web Based Communication System shall be able show the location of each message board on a map. The PCMS unit shall be maintained in good working order by the Contractor in accordance with the provisions of CMS 614.07. The Contractor shall, prior to activating the unit, make arrangements, with an authorized service agent for the PCMS, to assure prompt service in the event of failure. Any failure shall not result in the sign being out of service for more than 12 hours, including weekends. Failure to comply may result in an order to stop work and open all traffic lanes and/or in the Department taking appropriate action to safely control traffic. The entire cost to control traffic, accrued by the Department due to the Contractor's noncompliance, will be deducted from moneys due, or to become due the Contractor on his contract.

The Contractor shall be responsible for 24-hour-per-day operation and maintenance of these signs on the project for the duration of the phases when the plan requires their use.

Payment for the above described item shall be at the contract unit price. Payment shall include all labor, materials, equipment, fuels, lubricating oils, software, hardware and incidentals to perform the above described work.

The estimated quantity provides for nine PCMS units at 3 months each.

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Item 614 – Portable Changeable Message Sign,
As Per Plan

.. 27 SNMT

Portable Changeable Message Signs for Lane Closure(s)

The Contractor shall place a PCMS 0.5 to 2 miles in advance of any lane closures or as directed by the Engineer. The PCMS shall read: ROAD WORK AHEAD/RIGHT (LEFT) (2) LANE(S) CLOSED. If traffic becomes congested and there is stopped traffic, the message board shall be changed to: STOPPED TRAFFIC AHEAD/PREPARE TO STOP. The WTS shall be responsible for monitoring traffic during lane closures and changing the message signs as necessary. The message shall be changed when there is no lane closure (e.g. ROAD WORK AHEAD/NIGHTLY LANE CLOSURES), or per the Engineer.

<u>Item 614 – Law Enforcement Officer with Patrol Car for Assistance</u>

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 OMUTCD intends that flaggers be used.

In addition to the requirements of CMS 614 and the latest edition of the OMUTCD, 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 CMS 614 and the OMUTCD, a uniformed LEO with an official patrol car (car with top-mounted emergency flashing lights and complete markings of the appropriate law enforcement agency) may 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).
 - For operations without positive protection occurring within 10 feet of an open traveled lane that meet all of the following criteria:
 - On a multi-lane divided interstate, other freeway or expressway;
 and
 - An authorized speed limit of 45 mph or greater that is in effect at the time of the operation; and,
 - AADT of 50,000 (or AADT of 30,000 with 25% or higher percent trucks)

"Without positive protection" means use of drums, cones, shadow vehicle, etc, without protection from portable barrier or other rigid barrier along the work area. This phrase does not apply to cases where positive protection is required. Mobile operations are regarded as "without positive protection". For work zones using a combination of barrier and temporary traffic control devices (cones, drums, etc), the designation shall be based upon the type of devices used in the area that workers are located.

If multiple active localized qualifying work areas occur without positive protection, per mainline traffic direction, provide a uniformed LEO and official patrol car in advance of:

- The first active work area that drivers will encounter: or
- The active work area laterally closest to the open traveled lane; or
- Other location as approved by the Engineer.

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.

DESIGN AGENCY



DESIGNER
JDA

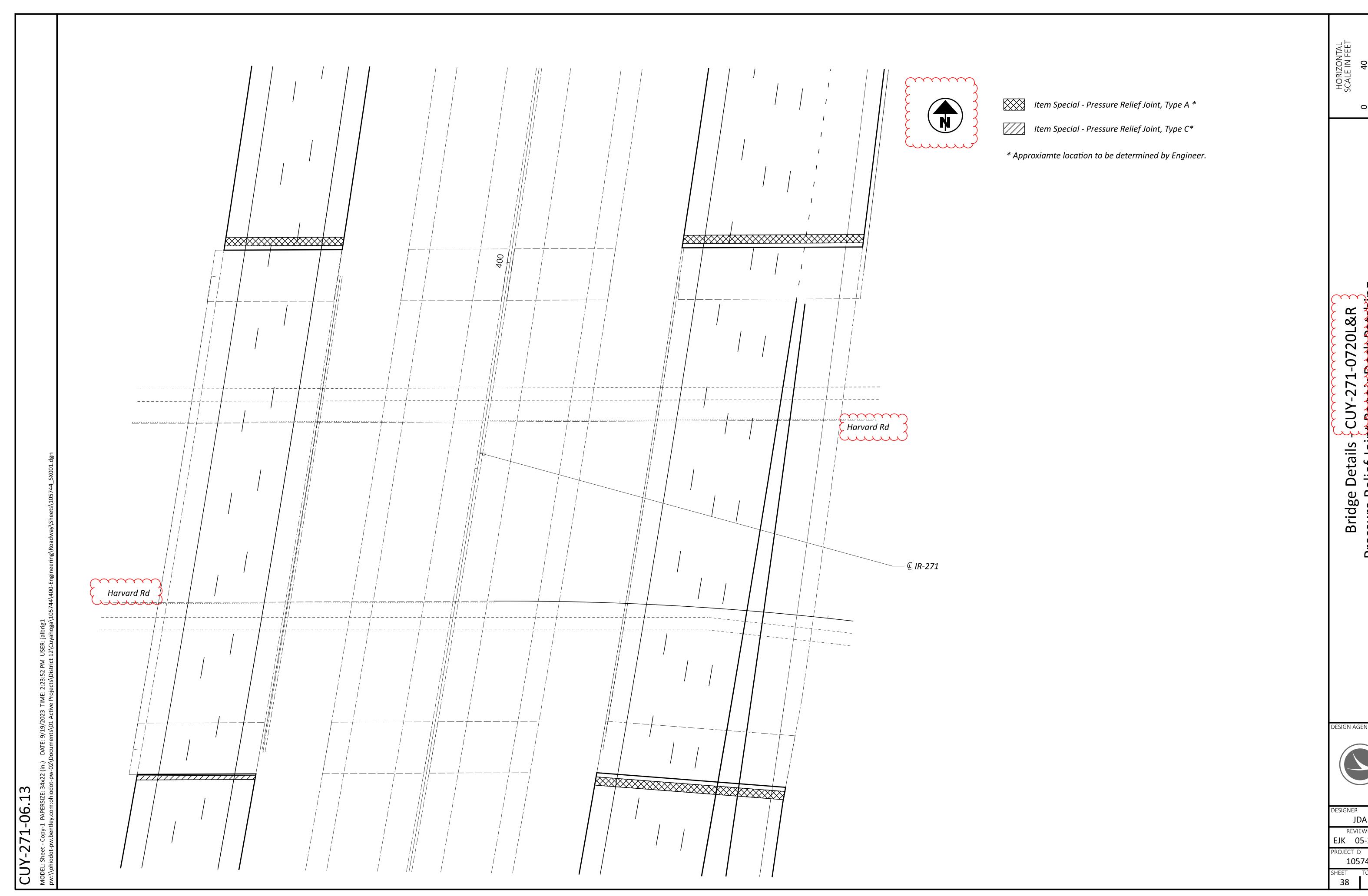
REVIEWER
EJK 05/24/23
PROJECT ID
105744
SHEET TOTAL
14 38

						SHEET NUM	l						PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION SEE SHEET
7-11	12-16	19	20	21	22	23	24						01/NFP/PV	I I EIVI	EXT	TOTAL	UNII	NO.
																		ROADWAY
520														209	60201	520	STA	LINEAR GRADING, AS PER PLAN 8
																		EROSION CONTROL
														832	30000	1,000	EACH	EROSION CONTROL
																		DRAINAGE
22														611 611	98631 98634	22	 	CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN CATCH BASIN RECONSTRUCTED TO GRADE
11														611	99655	11	EACH	MANHOLE ADJUSTED TO GRADE, AS PER PLAN 9
5,000														611 SPECIAL	99660 61199820	5,000	+	MANHOLE RECONSTRUCTED TO GRADE MISCELLANEOUS METAL 9
																		PAVEMENT
3,658.2														251	01021	3,658.2	SY	PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN A 10
422 28														251 251	01021 01021	422 28		PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN B PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN C 10
20		300,358	26,898											254	01001	327,256	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 1.5"
~~~~	~~~~	25,533	2,288	~~~			~~~~	~~~	~~~~	~~~~	~~~~			407	20000	27,821	GAL	NON-TRACKING TACK COAT
		9,138	1,295											442	00100	10,433	CY	ANTI-SEGREGATION EQUIPMENT
			· · · · · · · · · · · · · · · · · · ·			·									10000	1,136 12,548		
244														SPECIAL	45130000	244	FT	PRESSURE RELIEF JOINT, TYPE A
<i>31</i>						hand the second	·······	···	·····					SPECIAL	45132000	5/	FT	PRESSURE RELIEF JOINT, TYPE C
162														617	10101	162		COMPACTED AGGREGATE, AS PER PLAN  10
14.89	$\sim$		$\sim$	17.87	16.51	2.15	1.28		~~~~	~~~~	~~~			618 850	40601 10010	14,89 37.81		RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)
				1.84 0.73	1.58 0.74	0.11	0.04							850 850	10030 20010	3.57 1.47	1	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)  GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)
					0.74													
			8.852	462		1,897	········			<del></del>	· · · · · · · · · · · · · · · · · · ·			850 872	20130	2,359 8,852	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (CONCRETE)  VOID REDUCING ASPHALT MEMBRANE (VRAM)
	24		3,552											896	00012	24	SNMT	PORTABLE NON-INTRUSIVE TRAFFIC SENSOR, CLASS II
	6													896	00021	6	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN  14
237														620	00500	237	EACH	TRAFFIC CONTROL  DELINEATOR, POST GROUND MOUNTED
	9													620	11000	9	EACH	DELINEATOR, BRACKET MOUNTED
166	~~~	~~~	$\sim\sim$	944	779	239	65	~~~	~~~~	~~~	~~~	<del>~~~</del>	· · · · · · · · · · · · · · · · · · ·	620 621	31200 00100	166 2,027	EACH EACH	REMOVAL OF DELINEATOR RPM
1,350														621	54000	1,350	EACH	RAISED PAVEMENT MARKER REMOVED
						207	58							646	10400	265		STOP LINE
					217	1,033 95	223							646 646	10510 10600	1,256 312	FT FT	CROSSWALK LINE, 12" TRANSVERSE/DIAGONAL LINE
				432	154	93								646	10620	586		CHEVRON MARKING
						38	6							646	20300	44	EACH	LANE ARROW
						1								646	20320	1	EACH	WRONG WAY ARROW
				7.3	7.59	4.23	1.36							646 807	20350 12010	20.48	EACH MILE	LANE REDUCTION ARROW  WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"
$\sim$	~~~~	~~~	~~~	10.13	8.34 8,335	0.43 2,453	0.15	~~	~~~	~~~	~~~	~~~	~~~	807 807		19.05	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6" WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12"
8				10,137	6,333	2,433	213							607	12310	21,138	ГІ	WET REFLECTIVE EPOXY PAVEIVIENT WARKING, CHANNELIZING LINE, 12
				6,191	7,010									807	12410	13,201		WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 6"
																		TRAFFIC SIGNALS
9														632	26501	9	EACH	DETECTOR LOOP, AS PER PLAN  11
28														519	12200	28	SY	PATCHING CONCRETE BRIDGE DECK - TYPE A
								-				1				•		·

872 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446) ENDING WIDTH LENGTH STATION TO STATION STATION TO STATION FT. FT. SQ. YD. FT. FT. SQ. YD. FT. FT. GAL CY FT FT. FT. FT Ramp G-1 Ramp F-5 57+65.35 1010.00 60+00.00 235 55 60+00.00 25.00 556.00 3+12.20 100.00 20.00 556 200 21.00 19.00 222.00 222 62+00.00 25 25 24 2+12.20 27.00 261.00 3+12.20 12+01.06 888.86 2173.00 62+00.00 62+87.00 87.00 25 22 11 22.00 11 84.18 23.00 215.00 215 12+01.06 12+85.24 Ramp G-2 Ramp F-6 310.43 CADD 870.00 0+54.87 3+65.30 74 37 311 963.49 25.0 25.00 2676.00 2+63.35 25.0 100.00 24.0 23.00 3+65.30 13+28.79 112 1+63.35 256 Subsummary 1722.00 22.0 22.0 22.00 1722 705 2+63.35 9+67.78 704.43 126 Sta. 9+67.78 (BK) = Sta. 37+38.97 (AH) Ramp F-1 19.25 26.0 22.0 24.00 267.00 37+58.22 22.0 22.0 22.00 2+00.67 37+38.97 47.00 20 3+00.67 23 11 22.0 2253.00 921.72 22.0 22.00 38+38.22 24.50 2253 37+58.22 3+00.67 218 12+22.39 542.00 38+38.22 40+18.78 180.56 27.00 542 32 181 23 **Pavement** Ramp F-2 256.00 24.0 2+46.38 3+46.38 22.0 23.00 475.42 22.0 22.0 22.00 1162.00 3+46.38 8+21.80 49 476 Sta. 8+21.80 (BK) = Sta. 52+61.22 (AH) 22.0 52+61.22 25.0 23.50 202.00 53+38.63 17 25.00 490.07 1361.00 25 1361 116 53+38.63 58+28.70 25 Ramp F-3 26.50 4+53.07 5+53.07 100.00 31.0 22.0 294.00 25 100 12 13 22.00 22.0 22.0 408.00 166.93 5+53.07 7+20.00 17 167 35 17 800.00 22.0 42.0 32.00 2844.00 2844 7+20.00 15+20.00 242 800 119 119 125.35 42.0 42.0 42.00 585.00 15+20.00 16+45.35 126 50 25 17+31.45 86.10 CADD 460.00 16+45.35 20 87 39 24 Ramp F-4 17+57.50 35.0 35.0 35.00 2223.00 11+85.81 571.69 2223 189 93 93 572 Sta. 17+57.50 (BK) = Sta. 9+64.08 (AH) 160.92 35.0 35.0 35.00 626.00 626 27 161 9+64.08 53 26 11+25.00 39.6 182.74 35.0 37.30 11+25.00 13+07.74 757.00 183 757 32 32 35.3 37.45 39.6 125.00 13+07.74 13+37.74 125 11 **DESIGN AGENCY** 267.26 35.3 42.0 38.65 1148.00 13+37.74 268 98 48 16+05.00 1148 48 152.40 711.00 42.0 42.00 16+05.00 17+57.40 42.0 711 60 30 153 CADD 18+37.94 80.54 448.00 17+57.40 448 38 15 19 81 90-DESIGNER REVIEWER EJK 05/24/23 TOTALS, RIGHT COLUMN 228 2160 384 5395 459 7 TOTALS, LEFT COLUMN 1829 911 6692 908 21503 105744 TOTALS CARRIED TO GENERAL SUMMARY 26898 1295 1136 8852 2288 20 38 TOTALS, LEFT COLUMN 908 6692 21503 1829 911

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RPM (WHITE/RED)	EACH		21	10 4	48	18 6	30	27	14			7				<del>/</del>
RPM (YELLOW/RED)	EACH															
RPM (WHITE)	EACH		2 16 65	7 6	20 33 24 20	29 9 6 40	15	11 15 14 21	50	6 10 26 5	9 5 16	7	59			564
GROOVING FOR 12" RECESSED ⊗ SAVEMENT MARKING, (CONCRETE)	FT															
GROOVING FOR 6" RECESSED   → PAVEMENT MARKING, (CONCRETE)	FT					1032				910	897		\ \ \			3904
GROOVING FOR 12" RECESSED SEAVEMENT MARKING, (ASPHALT)	FT	-	808	369 - 152	1885	683 219	1193	861 1065	557	-	-	301 - 242	-	-		8335
GROOVING FOR 6" RECESSED  PAVEMENT MARKING, (ASPHALT)	FT		457 2019 8605	921 760	3174 4270 3769 3141	4640 1365 873 7872	2385	2152 2897 2129 3317	9950	1882 4036	1720 3045	601 724	9337			87154
LANE REDUCTION ARROW 99	EACH	(	\(\)	<u> </u>		\( \)		\(\)	<b>\( \)</b>	\(\frac{\chi}{\chi}\)		<u>{</u>	<u> </u>	<u>}</u>	\(\frac{\chi}{\chi}\)	{
WRONG WAY ARROW	EACH															
CROSSWALK LINE, 12" 99	FT															
LANE ARROW 9 <del>5</del> 9	EACH															
STOP LINE	FT															
TRANSVERSE/DIAGONAL LINE	FT					118			99							217
CHEVRON MARKING	FT		154				)					)		)	)	154
WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 6"	FT				529	1575	13/3	431 580	1990	213 377 182	344 180 609					7010
WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12"	FT		808	369 152	1885	683 219	1193	861 1065	557			301 242				8335
WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"	FT		153 1211 5163	553 456	1587 2562 1885 1571	516 2320 683 437 3149	1193	861 1159 1065 1659	557 3980	426 753 2018 364	688 359 1218	301 483	4669			43999
WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6", YELLOW	FT		152 404 1721	184 152	529 854 942 785	258 1160 341 218 1574	596	430 579 532 829	278 1990	213 376 1009 182	344 179 609	150	2334			19904
WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE,	FT		152 404 1721	184 152	529 854 942 785	258 1160 341 218 1574	596	430 579 532 829	278 1990	213 376 1009 182	344 179 609	150 241	2334			20145
LENGTH	FT		152.13 403.52 1720.71	184.16 151.71	528.72 853.91 942.12 785.11	257.81 1159.63 341.47 218.24 1574.04	596.02	430.27 579.10 532.33 829.17	278.14 1989.88	212.52 376.20 1008.52 181.96	343.93 179.01 608.84	150.24 241.06	2334.39			
	ТО	<u>inline</u>	341+57.27 345+60.79 362+81.50	364+65.66 366+17.37	371+46.09 380+00.00 389+42.12 397+27.23	399+85.04 411+44.67 414+86.14 417+04.38 432+78.42	43874.44	443+04.71 448+83.81 454+16.14 462+45.31	465+23.45 485+13.33	487+25.85 491+02.05 501+10.57 502+92.53	506+36.46 508+15.47 514+24.31	515+74.55 518+15.61	541+50.00			
STATION		'1 Southbound Mai														BTOTALS
	FROM	<u>IR-27</u>	340+05.14 341+57.27 345+60.79	362+81.50 364+65.66	366+17.37 371+46.09 380+00.00 389+42.12	397+27.23 399+85.04 411+44.67 414+86.14 417+04.38	432+78.42	438+74.44 443+04.71 448+83.81 454+16.14	462+45.31 465+23.45	485+13.33 487+25.85 491+02.05 501+10.57	502+92.53 506+36.46 508+15.47	514+24.31 515+74.55	518+15.61			SU
PLAN SPLIT NO.		+ +	1 1 1	1 1	1 1 1 1		1	1 1 1 1	1 1	1 1 1 1	1 1 1	1 1	1			
SHEET NO.																

646 646 807 646 850 850 621 621 621 GROOVING FOR 12" RECESSED PAVEMENT MARKING, (CONCRETE) GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT) GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE) WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6" **N** PLAN SPLIT STATION FROM FI TO FT **EACH EACH EACH EACH EACH EACH** FT Ramp G-1 56+83.93 57+76.60 92.67 95 185 93 191 93 57+76.60 57+99.00 22.40 22 22 23 23 57+99.00 62+03.66 404.66 405 405 810 6 Ramp G-2 Pavement Marking Subsummary 35.22 1+29.40 1+64.62 35 35 250 70 Sta. 1+64.62 (BK) = Sta. 1+95.97 (AH) 1+64.62 13+28.79 1164.17 1164 1164 2328 15 Ramp N-EW (No Work) 94+65.97 801.48 2404 86+64.49 96+01.57 135.60 94+65.97 136 136 272 96+01.57 551.86 552 15 28 101+53.43 552 1104 130 1104 1104 Ramp EW-S (No Work) 17+51.30 9+71.81 779.49 1558 779 75 779 Ramp E-N (No Work) 95+90.30 1159.95 1160 1160 84+30.35 55 2320 15 Ramp S-WE (No Work) 102+86.30 396.10 98+90.20 793 396 40 15 100 792 793 20 105+00.00 102+86.30 213.70 214 214 642 214 111+50.44 650.44 1300 105+00.00 650 650 Ramp S-WE (No Work) 97+11.75 109+81.04 1269.29 1269 1269 2538 55 Ramp F-1 2+00.00 12+22.39 2044 1022.39 1022 1022 45 13 Ramp F-2 2+46.00 8+21.80 575.80 576 576 1152 8 DESIGN AGENCY Sta. 8+21.80 (BK) = Sta. 52+61.22 (AH) 52+61.22 58+28.31 567.09 1134 567 567 8 Ramp F-3 1039.86 4+52.16 587.70 588 588 8 -06. DESIGNER 1507.44 10+39.86 467.58 936 1872 1727.36 15+07.44 219.92 132 440 220 220 440 57 440 11 REVIEWER 7 EJK 05/24/23 -2 **SUBTOTALS** 11209 2224 2453 207 38 1033 11348 1897 **150** 59 13202 105744 TOTALS CARRIED TO GENERAL SUMMARY 4.23 MI 2453 1033 0.11 MI 2.51 MI 1897 0.43 MI 95 207 38 2.15 MI 239 23 38



dge Details CUY-271-0720L&R re Relief Joint Repair Deck Patching

DESIGN AGENCY



EJK 05-24-23