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DESIGN DESIGNATIONS

	1-490 FB	I_/190 FB	1-490 W/B
	FROM I-71 TO I-77	FROM I-77 TO F 55TH ST	FROM I-71 TO F 55TH ST
CURRENT YEAR ADT (2023)	38.250	16.450	38,250
DESIGN YEAR ADT (2043)	44.250	9.750	44.250
DESIGN HOURLY VOLUME (2043)	8.050	900	8.050
DIRECTIONAL DISTRIBUTION	70%	52%	70%
TRUCKS (24 HOUR B & C)	8%	8%	8%
TD	4%	6%	4%
DESIGN SPEED	65 MPH	40 MPH	65 MPH
LEGAL SPEED	60 MPH	35 MPH	60 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	01 URBAN INTERSTATES	01 URBAN INTERSTATE	01 URBAN INTERSTATE
NHS PROJECT	YES	YES	YES
	1 71	177	
	SOLITH OF 1-490	1-77	vv. / 111 S1.
CURRENT YEAR ADT (2023)	86.000	.52.000	6.000
DESIGN YEAR ADT (2043)	86.000	67.000	6.000
DESIGN HOURLY VOLUME (2043)	8,600	8,000	700
DIRECTIONAL DISTRIBUTION	70%	70%	53%
TRUCKS (24 HOUR B & C)	4%	9%	9%
TD	2%	3%	11%
DESIGN SPEED	65 MPH	55 MPH	30 MPH
LEGAL SPEED	60 MPH	50 MPH	25 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	01 URBAN INTERSTATE	01 URBAN INTERSTATE	05 URBAN MAJOR COLLECTOR
NHS PROJECT	YES	YES	NO

-490-0.00 PART \succ

BALLOON L	EGEND	FXISTING UTI	LITY SYMBOL LEGEND	
(AB-#) ABA	NDON	= Guv Pole	$\dot{a} = Water Valve$	
		$ \vec{L} = Flag Pole $	$(\widehat{W}) = Water Manhole$	
	ILRETE DARRIER		M = Water Well	
(BR-#) CON	ICRETE BARRIER REMOVED	() = Power Pole	(W) = Water Meter (?) = Water Spigot / Tap	
D-# CAT AND	CH BASINS, MANHOLES INLETS	 Parking Meters Parking Meter 	 Cistern Sprinkler 	
DJ-# CAT ADJ	CH BASINS, MANHOLES AND INLETS USTED/RECONSTRUCTED TO GRADE	$\square = Air Condition Unit$	= Sprinkler Control Box	
DR-# CAT AND	CH BASINS, MANHOLES INLETS REMOVED	$\oint = Light Pole$	$\Psi = Cable TV Pole$	
DV-#) DRI	VEWAYS	 E Light Pedestal E = Electric Marker Post 	© = Cable IV Marker Post □ = Cable TV Pedestal ⊤	
E-# ERO	SION CONTROL	'(⊡) = Electric Meter ₪ = Electric Transformer		t SNO
(EX-#) EXIS	STING CATCH BASINS, HOLES AND INLETS	■ = Electric Pedestal X = Electric Tower	[T] = Telephone Pedestal 15 = Telephone Booth/or D	Prive-Up
(F-#) FEN	CE	= E ectric Out et	-III- = Traffic Lighting Control	N Box
(FP-#) FILL	8 PI UG	= Electric Pull Box $ (E) = Electric Manhole $ $ +$	$\square = Traffic Lighting Pull B$ $\perp = Sign$	
		$(\underline{G}) = Gas Valve$	\blacksquare = Curb Inlet \blacksquare = Catch Basin	
(FR-#) FEN	CE REMOVED	$\Theta = Gas Service$ $\Theta = Gas Marker Post$	= Cleanout	
G-# GUA	RDRAIL	$\bigcirc = Gas Meter / Regulator$	© = Sanitary Manhole © = Storm Manhole	
GR-#) GUA	RDRAIL REMOVED	+ Fire Hydrant	$(\bar{I}) = Telephone Manhole$	A N N
HR-# HEA	DWALL REMOVED	<u>proposed ut</u>	ILITY SYMBOL LEGEND	
HW-# HEA	DWALL	$\blacksquare \blacksquare \blacksquare = Prop$	posed Catch Basins	LEG
LS-#) LAN	DSCAPING		posed Manhole phole Adjusted To Grade	LAN
P-# DRA	INAGE PIPES	$= Prop$ $\stackrel{\bullet}{\textcircled{\baselineskip}} = Prop$	posed Exfiltration Trench posed Water Valve	<u>م</u>
PC-#) PIPE	E CLEANOUT	, ▼ = Prop ③ = San	posed Fire Hydrant itary Manhole Adjusted To Grade	
PR-# PIPE	ES REMOVED	$\mathbf{\mathbb{R}} = Prop$ $ = Prop$	posed Traffic Pullbox posed Conventional Luminaire	
R-# MISC	CELLANEOUS REMOVALS	= Prop $ = Prop$	posed Lighting Pullbox posed Decorative Luminaire	
SA-#) SAN	ITARY MANHOLE		posed Signal Pole Pedestal posed Signal Pole	
SJ-# SAN	ITARY STRUCTURE USTED/RECONSTRUCTED TO GRADE	$-\phi = Tes$	t Hole location	
SL-#) SAN	ITARY LATERAL	<u>U []</u> w	<u> </u>	
]	DING AND MULCHING	G SAN-	— = Gas Line — = Sanitary Line	
SP-#) SAN	ITARY PIPE	——————————————————————————————————————	— = Underground Electric — = Propane Line	DESIGN AGENCY
SR-#) SAN	ITARY REMOVAL	——————————————————————————————————————	= Underground Telephone = Diesel	
U-# UND	ERDRAINS	CATV- TR	— = Cable TV. — = Signal Wirina	GPD GROUP* Glaus, Pyle, Schomer, Burns & Dehaven, Inc. Copyright: Glaus, Pyle, Schomer, Burns & Dehaven, Inc. 2022
W-# WAT	ER WORK		REVISIONSNO.DATEDESCR	DESIGNER ATR
WJ-# WAT	ER WORK ADJUSTED TO GRADE		1 01/15/24 ADDED SHEET	65A PJF 11-21-23 PROJECT ID
WR-# WAT	ER WORK REMOVALS		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	5 493A-493F 107408 S 262A-262B 3 1069
<u> </u>				2 1000

P W-N (I-77)	585-587
P W-S (I-77)	588-589
	590-659
90	660-667
0	668-681
STREET	682-687
E-S (I-71)	688-718
S-E (I-71)	719-729
7-7C	730-741
C-7	742-747
3-C	748-755
С-В	756-759
E-N (I-77)	760-774
E-S (I-77)	775-783
N-E (I-77)	784-797
V-W (I-77)	798-815
S-E (I-77)	816-828
5-W (I-77)	829-839
N-N (I-77)	840-847
N-S (I-77)	848-858
	859-887
	888-897
	898-901
	902-905
	906-911
N	912
	913-914
	915-934
	935-939
	940-942
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	992-1002, 1002A, 1002B
	1003-1031
	1032-1038
- ROADWAY	1039-1068



PART

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14	ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D	(26)	ITEM 601 - PAVED G
(15)	ITEM 206 - CEMENT	(27)	ITEM 601 - CONCRE
\frown	ITEM 200 - CORING COAT ITEM 206 - CEMENT STABILIZED SUBGRADE, 14" INCHES DEEP (SEE SHEET 51)	(28)	ITEM 622 - CONCRE
(16)	ITEM 204 - PROOF ROLLING		(4" LIGH
(17)	ITEM 441 - 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	(29)	TEM 622 - CONORE) ITEM 622 - (CONORE) (4" LIGH
18	ITEM 209 - RESHAPING UNDER GUARDRAIL, AS PER PLAN	30	ITEM 608 - 4" CONC
(19)	ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN	(31)	ITEM 304 - 3" AGGR
_	ITEM 617 - SHOULDER PREPARATION ITEM 617 - WATER	(32)	ITEM 609 - 4" CONC
(20)	ITEM 408 - PRIME COAT, AS PER PLAN	(33)	ITEM 304 - 4" AGGR
21)	ITEM 609 - CURB, TYPE 4-C	(34)	
(22)	ITEM 622 - CONORETE BARRIER, SINGLE SLOPE, RYPE OT	\bigcirc	TIEM OUT - PAVED G
\bigcirc	$(4" LIGHTING CONDÚIT AND 2" ITS CONDUIT PER SCD RM-4.3) \frac{1}{4}$	(35)	ITEM 622 - CONCRE
(23)	ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5")	36	ITEM 203 - GRANUL
24)	ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN		
25	ITEM 609 - CURB, TYPE 6		



			REVISIONS		
		D. DATE	DESCRIPTIO	N	
	4	04/04/24	UPDAIED CONDUIIS	IN	
E EDGE DETAIL E GUARDRAIL II	S ON SHEET 45 NSTALLATION D	DN SHEET 4. "ON SHEET	HEET 45		TYPICAL SECTIONS
STA. 2035+00.00 VARIES - SEE CUR	TO STA. 2050+0 VES 6, 7, & 8 DA	17.73 ATA IN PLANS			
					DESIGN AGENCY
FOR PROPOSED L FOR WIDTH TABL FOR SUPERELEVA * 0.04 OR RA	EGEND, SEE SH E, SEE SHEET 29 TION TABLES, S TE OF PAVEME	EET 24 9 EE SHEETS 86 NT SLOPE	56 - 867		GPD GROUP* Capytight: Glaus, Pyle, Schomer, Burns & Dehaven, Inc. Copytight: Glaus, Pyle, Schomer, Burns & Dehaven, Inc. 2020
IF GREATER	R. SIDE SHOULDE	R SLOPES,	45		designer NRB revifwfr
SEE SHOUL	DER DETAIL "A WN IN UNDERI	" ON SHEET DRAIN PLAN	45 . S, SEE SHEETS 938 ·	- 939	PJF 11-21-23
			,		107408 SHEET TOTAL 28 1068

GENERAL (CONTINUED)

ITEM 619 FIELD OFFICE, TYPE C, AS PER PLAN

ALL REQUIREMENTS OF C&MS 619 SHALL APPLY EXCEPT AS MODIFIED HEREIN:

THE FIELD OFFICE SHALL BE A SUITE TYPE OFFICE (NO TRAILER OR MODULAR OFFICE) WITH A MINIMUM OF 4,000 SQUARE FEET AND AT GROUND LEVEL WITH A MINIMUM CEILING HEIGHT OF EIGHT (8) FEET. PROVIDE TWO (2) OUTSIDE DOORS, LOCKABLE VANDAL PROOF CYLINDER TYPE DEAD BOLTS AND LOCKABLE WINDOWS. THE FLOOR SPACE WILL BE DIVIDED INTO TWO RESTROOMS, ONE GENERAL OFFICE AREA (MINIMUM 400 SQUARE FEET), NOT LESS THAN SEVEN INDIVIDUAL OFFICES (MINIMUM 300 SQUARE FEET EACH) AS SEPARATE ENCLOSED ROOMS (NO CUBICLE DIVIDERS WILL BE ACCEPTED), ONE KITCHEN SPACE INCLUDING SINK, REFRIGERATOR, AND MICROWAVE, AND ONE CONFERENCE ROOM (MINIMUM 1000 SQUARE FEET).

FURNISH NEAT, SANITARY, ENCLOSED TOILET ACCOMMODATIONS CONNECTED TO AN EXISTING SANITARY SEWER LINE FOR THE USE OF THE OCCUPANTS OF THE FIELD OFFICE, MEETING APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. FURNISH ASSOCIATED LAVATORY AND SANITARY SUPPLIES. POTABLE HOT AND COLD RUNNING WATER WILL BE PROVIDED IN THE RESTROOM FOR SANITARY PURPOSES.

FURNISH TRASH COLLECTION SERVICE/DUMPSTER.

FURNISH PROFESSIONAL, BONDED, AND INSURED JANITORIAL SERVICE WITH A WEEKLY CLEANING OF THE ENTIRE OFFICE TO INCLUDE THE RESTROOM FACILITIES FOR THE DURATION OF THE PROJECT.

FURNISH BOTTLED DRINKING WATER SERVICE WITH A HOT AND COLD DISPENSER AND ASSOCIATED SUPPLIES.

FURNISH A BOX FOR STORING A NUCLEAR DENSITY GAUGE WITH **REQUIREMENTS AS SET FORTH IN C&MS 619.02.**

FURNISH AND MAINTAIN A BROADBAND INTERNET CONNECTION CAPABLE OF MINIMUM DOWNLOAD SPEEDS OF 1.0 GB/S. PROVIDE A WIRELESS ROUTER THAT SUPPORTS WI-FI STANDARD 802.11AX (WIFI 6) AND A MINIMUM WIRELESS DATA TRANSFER RATE OF 4000 MB/S. PROVIDE PRE-WIRED ETHERNET ACCESS FOR ALL INDIVIDUAL OFFICES AND THE CONFERENCE ROOM.

FURNISH TEN (10) DESK AND CHAIR SETS, THIRTY (30) STACKABLE CHAIRS, *TWENTY (20) WORK TABLES (30" x72"), AND TWELVE (12) 24- QUART* WASTE BASKETS WITH APPROPRIATE SIZED TRASH BAGS.

FURNISH AND INSTALL TWO (2) WALL-MOUNTED 8' x 4' GLASS, MAGNETIC DRY ERASE BOARDS.

FURNISH ONE NEW TELEVISION WITH THE FOLLOWING SPECIFICATIONS:

a) DIAGONAL SCREEN SIZE - 70" MINIMUM"

b) NATIVE RESOLUTION - 4K

c) HDMI PORTS: 3

d) ALL ACCESSORIES NECESSARY TO OPERATE

f) ALL HARDWARE AND INSTALLATION NECESSARY TO HANG THE TELEVISION ON THE WALL IN THE CONFERENCE ROOM

THE FIELD OFFICE WILL BE APPROVED IN ADVANCE BY THE ENGINEER AND FULLY OPERATIONAL WITHIN 30 DAYS AFTER THE SIGNING AND EXECUTION OF THE PROJECT OR PRIOR TO THE START OF ANY CONSTRUCTION WORK, WHICHEVER COMES FIRST.

THE DEPARTMENT WILL MEASURE FIELD OFFICE, TYPE C, AS PER PLAN BY THE NUMBER OF MONTHS THE OFFICE IS MAINTAINED. A PARTIAL MONTH AT THE END OF THE PROJECT WILL BE PAID AS A FULL MONTH.

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICE AS FOLLOWS:

ITEM 619 MONTH

UNIT

DESCRIPTION FIELD OFFICE, TYPE C, AS PER PLAN

ITEM SPECIAL - SURVEY CONTROL VERIFICATION

THE CONTRACTOR SHALL PERFORM THIS WORK TO VERIFY THE PROVIDED SURVEY CONTROL. THE CONTRACTOR WILL PERFORM THE VERIFICATION USING ONE OF THE TWO METHODS BELOW DEPENDENT UPON THE CONTRACTOR'S CHOSEN MEANS OF SURVEY CONTROL TO BE USED ON THE PROJECT. THE WORK SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN OHIO LICENSED SURVEYOR.

- 1) IF USING GPS DEVICES TO ESTABLISH AND OR PROVIDE
- PLAN.
- DISCREPANCIES FOUND.
- SURVEY CONTROL:

- DISCREPANCIES FOUND.

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID ITEM.

PERMIT

IN THE CITY OF CLEVELAND, ALL PERMITS MUST BE OBTAINED FROM THE DIVISION OF ASSESSMENTS AND LICENSES PRIOR TO BEGINNING ANY WORK WITHIN THE CITY OF CLEVELAND RIGHT OF WAY. PERMITS INCLUDE BUT ARE NOT LIMITED TO STREET OPENING PERMIT, OVERLOAD PERMIT, OBSTRUCTION PERMIT AND/OR SIDEWALK PERMIT AND MAY BE OBTAINED THROUGH THE FOLLOWING CONTACT:

TRAVIS EVANS DEPARTMENT OF FINANCE DIVISION OF ASSESSMENTS AND LICENSES 601 LAKESIDE AVENUE, ROOM 122 CLEVELAND, OHIO 44114 PHONE: (216) 664-2174 EMAIL: DALPERMITS@CITY.CLEVELAND.OH.US

ALL STREET OPENING REPAIRS, CURB REPAIRS, AND/OR SIDEWALK REPAIRS EITHER INCIDENTAL TO THE PROJECT OR PART OF THE PROJECT MUST BE PERFORMED IN ACCORDANCE TO CITY OF CLEVELAND STANDARDS. A COPY OF THE STANDARDS CAN BE OBTAINED ON-LINE UNDER THE "FORMS AND PUBLICATIONS" TAB OF THE CAPITAL PROJECTS WEBSITE OR FROM THE DIVISION OF ENGINEERING AND CONSTRUCTION BY CALLING (216) 664-2381.

ALL PERMITS. FEES AND CHARGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THEIR ASSOCIATED COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THIS ITEM. THE COST BELOW MAY NOT BE FULLY INCLUSIVE OF ALL PERMIT FEES REQUIRED TO BE PAID. NOTE THAT CLEVELAND WATER DEPARTMENT CHARGES ARE PAID UNDER A SEPARATE ITEM.

FOR BIDDING PURPOSES, THE FOLLOWING FEES AND CHARGES HAVE BEEN ESTIMATED BY THE CITY OF CLEVELAND DIVISION OF ENGINEERING AND CONSTRUCTION ON BEHALF OF THE DIVISION OF ASSESSMENTS AND LICENSES (DAL): \$1,540

DAL HAS ASSIGNED RECORD NUMBER STP24-00196 TO THIS PROJECT. THE AWARDED CONTRACTOR SHALL CONTACT DAL AS DESCRIBED ABOVE, USING THE ASSIGNED STP NUMBER FOR REFERENCE. THE CONTRACTOR SHALL PROVIDE DAL WITH THEIR CERTIFICATE OF INSURANCE (COI) MEETING THE CITY OF CLEVELAND REQUIREMENTS. UPON SUBMITTAL OF THE COI AND RECEIPT OF PAYMENT, DAL WILL ISSUE THE PERMIT.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL NOTES SUBSUMMARY:

ITEM SPECIAL - PERMITS

REVISIONS								
NO.	DATE	DESCRIPTION						
Δ	01/15/24	PERMITS NOTE ADDED						
2	02/15/24	PERMITS NOTE UPDATED						
3	03/05/24	EXCAVATION OF SUBGRADE QUANTITY ADDED						
4	04/04/24	SUBGRADE NOTE & QUANTITIES UPDATED						

PART -0.00 60 4

OUANTITIES CARRIED TO GENERAL NOTES SUBSUMMARY ON SHEET 59

SUPPLEMENTAL HORIZONTAL AND VERTICAL SURVEY CONTROL: a. LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT b. PERFORM A SITE CALIBRATION UTILIZING THE AVAILABLE HORIZONTAL AND VERTICAL CONTROL POINTS PROVIDED IN THE

c. PROVIDE A REPORT, SIGNED BY AN OHIO LICENSED SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE OBSERVED DATA TO THE PLAN DATA ALONG WITH A NARRATIVE DETAILING ANY

2) IF USING CONVENTIONAL SURVEY INSTRUMENTATION TO ESTABLISH AND OR PROVIDE SUPPLEMENTAL HORIZONTAL AND VERTICAL

a. LOCATE VERTICAL CONTROL POINTS PROVIDED IN THE PLANS AND PERFORM A DIFFERENTIAL LEVEL CIRCUIT. b. LOCATE AND OBSERVE ANGLE AND DISTANCE TO ALL AVAILABLE HORIZONTAL CONTROL POINTS PROVIDE IN THE PLAN. c. PROVIDE A REPORT, SIGNED BY AN OHIO LICENSED SURVEYOR, TO THE PROJECT ENGINEER COMPARING THE OBSERVED DATA TO THE PLAN DATA ALONG WITH A NARRATIVE DETAILING ANY

LUMP

ROADWAY

ITEM 202 - PAVEMENT REMOVED

AS SHOWN ON THE PAVEMENT REMOVAL CALCULATIONS (SHEET 489 TO 492). THE CONTRACTOR SHALL REMOVE ALL PAVEMENTS WHETHER ASPHALT, CONCRETE, OR COMPOSITE UNDER THE PRICE BID FOR ITEM 202 - PAVEMENT REMOVAL (SY).

ITEM 204 - SUBGRADE COMPACTION AND PROOF ROLLING

CONSTRUCT THE SUBGRADE AS FOLLOWS AND IN THE FOLLOWING SEQUENCE:

- 1. SHAPE THE SUBGRADE TO WITHIN 0.2 FEET OF THE PLAN SUBGRADE ELEVATION.
- 2. EXCAVATE AND REPLACE UNSUITABLE SUBGRADE BEFORE PROOF ROLLING. THE EXCAVATION LIMITS ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSUITABLE SUBGRADE. UNSUITABLE SUBGRADE INCLUDES UNSUITABLE SOIL (A-4B, A-2-5, A-5, A-7-5, AND SOIL WITH A LIQUID LIMIT GREATER THAN 65) AND ANY COAL SHALE, OR ROCK WHICH NEEDS TO BE REMOVED ACCORDING TO SECTION 204.05 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (C&MS).

IF THERE IS UNSUITABLE SUBGRADE IN A SHALLOW FILL LOCATION, EXCAVATE AND REPLACE THE UNSUITABLE SUBGRADE BEFORE CONSTRUCTING THE SHALLOW FILL AND SHAPING THE SUBGRADE.

- 3. COMPACT THE SUBGRADE ACCORDING TO C&MS 204.03.
- 4. APPROXIMATE LIMITS FOR EXCAVATION OF UNSTABLE SUBGRADE ARE SHOWN AND LABELED ON THE CROSS SECTIONS AS UNSTABLE SUBGRADE. THE ENGINEER WILL IDENTIFY THE ACTUAL LIMITS OF EXCAVATION FOR UNSTABLE SUBGRADE BASED ON THE PROOF ROLLING RESULTS AND VISUAL OBSERVATIONS.

PROOF ROLL THE COMPACTED SUBGRADE ACCORDING TO C&MS 204.06.

- 5. EXCAVATE UNSTABLE SUBGRADE AS DIRECTED BY THE ENGINEER AND STABILIZE BY REPLACING WITH THE SPECIFIED MATERIALS ACCORDING TO C&MS 204.07. EXCAVATIONS WILL EXTEND 18 INCHES BEYOND THE EDGE OF THE SURFACE OF THE PAVEMENT, PAVED SHOULDERS, OR PAVED MEDIANS.
- 6. PROOF ROLL THE STABILIZED AREAS ACCORDING TO C&MS 204.06 TO VERIFY STABILITY.
- 7. FINE GRADE THE SUBGRADE TO THE SPECIFIED GRADE.

THE QUANTITIES FOR EXCAVATING THE UNSUITABLE SUBGRADE AND UNSTABLE SUBGRADE ARE BOTH PAID UNDER ITEM 204, EXCAVATION OF SUBGRADE.

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING. SEE TYPICAL PLAN SHEETS 24 - 46 FOR ADDITIONAL INFORMATION. $\sim\sim\sim\sim$

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ITEM 204 - PROOF ROLLING ~ 80 HOUR イ

	PAVEMENT SUBGRADE									
ALIGNMENT	BEGIN STATION	END STATIC								
C/I D/IM & CONST I 400	933+23.03	985+67.5								
C/L R/W & CONST. 1-490	1020+69.29	1035+00.0								
B/L CONST. EB I-490	2035+00.00	2050+87.7								
B/L CONST. WB I-490	3035+00.00	3049+75.8								
C/L CONST. W. 7TH ST.	10+24.33	14+47.65								
	3036+66.35	3042+13.5								
B/L CONST. RAMP E-S (I-71)	3047+21.36	3058+59.2								
	3058+59.21	3064+68.9								
	2049+00.00	2052+23.1								
B/L CONST. RAIVIP S-E (I-71)	2052+23.15	2058+00.0								
B/L CONST. RAMP 7-7C	68+37.92	80+59.02								
B/L CONST. RAMP C-7	81+96.55	85+63.86								
B/L EX. & CONST. RAMP B-C	14+98.42	18+18.79								
B/L EX. & CONST. RAMP C-B	14+78.03	17+33.88								
B/L CONST. RAMP E-N (I-77)	734+00.31	746+47.5								
B/L CONST. RAMP E-S (I-77)	836+08.78	842+23.62								
B/L CONST. RAMP N-E (I-77)	437+48.58	445+70.0								
B/L CONST. RAMP N-W (I-77)	120+15.54	131+37.5								
B/L CONST. RAMP S-E (I-77)	336+00.00	347+00.0								
B/L CONST. RAMP S-W (I-77)	224+14.63	227+50.02								
B/L CONST. RAMP W-N (I-77)	625+00.00	631+44.1								
B/L CONST. RAMP W-S (I-77)	521+21.52	528+83.0								



EROSION CONTROL	YYYYYYY			WATER QUALITY
ITEM 601 - PAVED GUTTER, TYPE 1-2, AS PER PLAN		<u>EARTHWORK - CONTINUED</u>		POST CONSTRUCTION STORM WATER TREATMENT
THIS ITEM SHALL CONSIST OF CONSTRUCTING CONCRI GUTTER AS PER STANDARD CONSTRUCTION DRAWING DETAILS AS SHOWN ON SHEET 46 AT THE LOCATIONS	ETE PAVED	RAMP S-E (I-71) ITEM 203, EXCAVATION ITEM 203, EMBANKMENT ITEM 659, SEEDING AND MULCHING, CLASS 3B	1,880 CU. YD. 5 CU. YD. 116 SO. YD	THIS PLAN UTILIZES STRUCTURAL BEST MANAGEMENT PRACTICES (BMP'S) FOR POST CONSTRUCTION STORM WATER TREATMENT.
SHOWN IN THE DETAIL. PEJF (PREFORMED EXPANSION SHALL BE PER CMS 516 AND IS INCLUDED IN THE COST	N JOINT FILLER)	ITEM 659, SEEDING AND MULCHING, CLASS SB ITEM 659, SEEDING AND MULCHING	903 SQ. YD.	VEGETATED BIOFILTER
GUTTER. ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY THE ABOVE-DESCRIBED WORK SHALL BE INCLUDED IN PRICE BID PER FOOT FOR ITEM 601 - PAVED GUTTER, T	TO COMPLETE	RAMP 7-7C/W. 7TH STREET ITEM 203, EXCAVATION ITEM 203, EMBANKMENT ITEM 659, SEEDING AND MULCHING	8,549 CU. YD. 408 CU. YD. 11,056 SQ. YD.	THIS PLAN UTILIZES VEGETATED BIOFILTER(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR
	uuuu	RAMP C-7 ITEM 203, EXCAVATION ITEM 203, EMBANKMENT ITEM 659, SEEDING AND MULCHING	363 CU. YD. 9 CU. YD. 588 SQ. YD.	EACH VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL, AS SHOWN IN THE PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS SPECIFIED IN THE PLANS. ALL DITCHES LOCATED WITHIN LIMITS OF VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL AND NOT HAVE ROUNDING.
ITEM 601 - PAVED GUTTER, TYPE 3, AS PER PLAN		RAMP B-C ITEM 203. EXCAVATION	359 CU. YD.	
THIS ITEM SHALL CONSIST OF CONSTRUCTING CONCRUGUTTER AS PER STANDARD CONSTRUCTION DRAWING	ETE PAVED G DM-2.1 AND THE	ITEM 203, EMBANKMENT ITEM 659, SEEDING AND MULCHING, CLASS 3B	8 CU. YD. 29 SQ. YD. 260 SQ. YD	
ANS. THE GUTTER SHALL BE CONSTRUCTED TO THE	E DIMENSIONS	RAMP C-R	260 SQ. YD.	ENVIKUNIVIEN IAL
HALL BE PER CMS 516 AND IS INCLUDED IN THE COST	T OF THE PAVED	ITEM 203, EXCAVATION	386 CU. YD. 17 CU. YD	NO TREES SHALL BE REMOVED LINDER THIS PROJECT FROM APRIL 1
UTTER.	II IIIIS FAVED	ITEM 659, SEEDING AND MULCHING	325 SQ. YD.	THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS
L LABOR, EQUIPMENT AND MATERIALS NECESSARY 1E ABOVE-DESCRIBED WORK SHALL BE INCLUDED IN	TO COMPLETE	RAMP E-N (I-77) ITEM 203, EXCAVATION	2,383 CU. YD.	NECESSARY TO AVOID AND MINIMIZE IMPACTS TO FEDERALLY AND STATE LISTED BAT SPECIES AS REQUIRED BY THE ENDANGERED SPECIES
RICE BID PER FOOT FOR ITEM 601 - PAVED GUTTER, 1 LAN.	TYPE 3, AS PER	ITEM 203, EMBANKMENT ITEM 659, SEEDING AND MULCHING	5 CU. YD. 2,693 SQ. YD.	ACT. FOR THE PURPOSE OF THE NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODY PLANT WITH A TRUCK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND
FEDING AND MUICHING		RAMP E-S (I-77) ITEM 203, EXCAVATION	693 CU. YD.	SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.
THE FOLLOWING QUANTITIES ARE PROVIDED TO PROM	MOTE	ITEM 203, EMBANKMENT ITEM 659, SEEDING AND MULCHING	10 CU. YD. 1,430 SQ. YD.	BEST MANAGEMENT PRACTICES/SOIL EROSION AND SEDIMENTATION
ROWTH AND CARE OF PERMANENT SEEDED AREAS:		RAMP N-E (I-77)		<u>CONTROL</u>
EM 659, SOIL ANALYSIS TEST 2 TEM 659, MOWING 2	2 EACH 150 M. SQ. FT.	ITEM 203, EXCAVATION ITEM 203, EMBANKMENT	2,433 CU. YD. 4 CU. YD.	ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SPECIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE IN
EM 659, TOPSOIL EM 659, SEEDING AND MULCHING, CLASS 3B	7,419 CU. YD. 3,490 SQ. YD.	ITEM 659, SEEDING AND MULCHING	2,301 SQ. YD.	PLACE PRIOR TO ANY EXCAVATION, GRADING OR FILLING OPERATIONS AND INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES. THEY
M 659, SEEDING AND MULCHING M 659, REPAIR SEEDING AND MULCHING	63,346 SQ. YD. 3,342 SQ. YD.	RAMP N-W (I-77) ITEM 203, EXCAVATION	2,308 CU. YD.	SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE AND THE AREA IS STABILIZED AS ACCEPTED BY THE ENGINEER.
Л 659, INTER-SEEDING 3 Л 659, COMMERCIAL FERTILIZER 9 Л 659, LIME 3 Л 659, WATER 3	3,342 SQ. YD. 9.33 TON 13.81 ACRES 370 M. GAL.	ITEM 203, EMBANKMENT ITEM 659, SEEDING AND MULCHING, CLASS 3B ITEM 659, SEEDING AND MULCHING	20 CU. YD. 309 SQ. YD. 2,357 SQ. YD.	
PLY SEEDING AND MULCHING TO ALL AREAS OF EXP	POSED	RAMP S-E (I-77)		
VIL BETWEEN THE RIGHT-OF-WAY LINES AND WITHIN NSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGH NES COVERED BY WORK AGREEMENT OR SLOPE EAS UANTITY CALCULATIONS FOR SEEDING AND MULCHI	N THE HT-OF-WAY SEMENT. ING ARE	ITEM 203, EXCAVATION ITEM 203, EMBANKMENT ITEM 659, SEEDING AND MULCHING, CLASS 3B ITEM 659, SEEDING AND MULCHING	4,148 CO. TD. 0 CU. YD. 181 SQ. YD. 4,010 SQ. YD.	
BASED ON THESE LIMITS.		RAMP S-W (I-77) ITEM 203 EXCAVATION	934 CU VD	
ARTHWORK		ITEM 203, EMBANKMENT ITEM 659. SEEDING AND MULCHING	2 CU. YD. 885 SQ. YD.	
HE FOLLOWING IS A SUMMARY OF ALL EARTHWORK ARTHWORK END AREA CALCULATIONS HAVE BEEN PR HEETS 493A-493F FOR REFERENCE ONLY.	QUANTITIES. ROVIDED ON	RAMP W-N (I-77) ITEM 203, EXCAVATION ITEM 203, EMBANKMENT	716 CU. YD. 5 CU. YD.	
-490 MAINLINE ITEM 203 EXCAVATION	30 524 CU YD	ITEM 659, SEEDING AND MULCHING	2,064 SQ. YD.	
ITEM 203, EMBANKMENT ITEM 659, SEEDING AND MULCHING, CLASS 3B ITEM 659, SEEDING AND MULCHING	1,978 CU. YD. 1,525 SQ. YD. 17,190 SQ. YD.	RAMP W-S (I-77) ITEM 203, EXCAVATION ITEM 203, EMBANKMENT ITEM 659, SEEDING AND MULCHING	1,106 CU. YD. 7 CU. YD. 1,789 SQ. YD.	
B I-490 BASELINE ITEM 203, EXCAVATION ITEM 203, EMBANKMENT 22	4,243 CU. YD. 23 CU. YD.	THE FOLLOWING GRAND TOTAL HAS BEEN CARRIED NOTES SUBSUMMARY:	TO THE GENERAL	
ITEM 659, SEEDING AND MULCHING, CLASS 3B ITEM 659, SEEDING AND MULCHING WB I-490 BASELINE	356 SQ. YD. 4,268 SQ. YD.	ITEM 203, EXCAVATION ADD EXCAVATION FROM VBF	69,140 CU. YD. 1,476 CU. YD. 70,616 CU. YD.	
ITEM 203, EXCAVATION ITEM 203, EMBANKMENT ITEM 659, SEEDING AND MULCHING, CLASS 3B ITEM 659, SEEDING AND MULCHING	5,792 CU. YD. 290 CU. YD. 208 SQ. YD. 7,533 SQ. YD.	ITEM 203, EMBANKMENT	2,931 CU. YD.	
RAMP E-S (I-71) ITEM 203, EXCAVATION	2,323 CU. YD.			
ITEM 203, EMBANKMENT ITEM 659, SEEDING AND MULCHING, CLASS 3B ITEM 659. SEEDING AND MULCHING	140 CU. YD. 766 SQ. YD. 3,694 SQ. YD.			
	· / ·	REVISIONS		
		NO. DATE DESCRIPTION		
		$\frac{2}{2} 02/29/24 UPDATED EARTHWORK$	QUANTITIES	
SUBSUMMARY ON SHEET 59		4 04/04/24 REVISED PAVED GUTTER	NOTE AND	

CUY-490-0.00 PART

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WATER WORK	
CLEVELAND WATER DEPARTMENT FEES AND CHARGES	
THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CLEVELAND WATER DEPARTMENT FEES AND CHARGES ASSOCIATED WITH THIS PROJECT. A LINE ITEM WITH A FIXED AMOUNT HAS BEEN ADDED TO THE BID FORM. A COPY OF THE CHARGE LETTER WILL BE PROVIDED UPON RECEIPT. PAYMENT WILL BE BASED ON THE CONTRACTOR'S PAID INVOICE TO CLEVELAND WATER DEPARTMENT. FOR BIDDING PURPOSES, THE FOLLOWING FEES AND CHARGES HAVE BEEN ESTIMATED: \$20,000. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.	
ITEM 638 - WATER WORK, MISC.: CLEVELAND WATER DEPARTMENT FEES AND CHARGES 20,000 EACH	
CLEVELAND WATER DEPARTMENT AS-BUILTS	
THIS ITEM SHALL INCULDE ALL NECESSARY LABOR AND MATERIAL TO PROVIDE THE CITY OFFICIALS AND THE CITY OF CLEVELAND DIVISION OF WATER WITH ACCURATE AS-BUILT DRAWINGS. THESE DRAWINGS SHALL INCLUDE THE EXACT LOCATION OF ALL NEW VALVES AND HYDRANTS INSTALLED. THE DATE OF VALVE AND HYDRANT INSTALLATION SHALL BE INDICATED ON THE DRAWINGS. THE DRAWINGS SHALL SHOW THE EXACT LIMITS OF THE PIPE THAT WAS INSTALLED. ALL EXCAVATIONS SHALL BE RECORDED WITH LOCATION AND DIMENSIONS, DATE OPENED, DATE BACKFILLED, DATE PAVED AND SHALL BE SHOWN ON THE AS-BUILTS. A REGISTERED PROFESSIONAL ENGINEER SHALL SEAL THE DRAWINGS. AS- BUILTS WILL BE REQUIRED PRIOR TO DISINFECTING THE WATER MAIN. ALL WORK REQUIRED SHALL BE INCLUDED IN THE LUMP SUM BID PRICE FOR "AS-BUILT DRAWINGS." THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.	S
ITEM 638 - WATER WORK, MISC.: CLEVELAND WATER DEPARTMENT AS-BUILT DRAWINGS LS	NOTE
ITEM SPECIAL - 6" FIRE HYDRANT (CLEVELAND)	AL
ALL HYDRANTS SHALL BE "MUELLER-CENTURION", "KENNEDY-GUARDIAN", OR AN APPROVED EQUAL (PAINTED YELLOW). THIS ITEM SHALL INCLUDE ALL NECESSARY EXCAVATION, EMBANKMENT, DEWATERING, SHEETING, PREPARATION OF THE TRENCH BOTTOM, ROCK EXCAVATION, VALVE, VALVE BOX, HYDRANT, 12"x6" TEE, JOINT MATERIAL, BLOCKING, ADJUSTMENT, BEDDING, BACKFILL, TESTING, DISPOSAL OF WASTE AND ALL OTHER EXPENSES WHETHER SPECIFICALLY MENTIONED OR NOT, FOR THE INSTALLATION OF A 6" HYDRANT ASSEMBLY IN ACCORDANCE WITH CLEVELAND WATER DEPARTMENT STANDARDS. SEE SHEET 945 FOR CLEVELAND WATER DEPARTMENT STANDARD CONSTRUCTION DRAWING STD-H06.	GENER
HYDRANT ASSEMBLIES SHALL BE EQUIPPED WITH A 4" HPHA HARRINGTON PERMANENT HYDRANT STORZ COUPLING AS MANUFACTURED BY HARRINGTON, INC.	
THREADS ON HYDRANTS MUST BE CLEVELAND STANDARD THREAD AND MUST BE APPROVED BY THE FIRE CHIEF. THE CONTRACTOR IS REQUIRED TO SCHEDULE AN INSPECTION WITH THE FIRE CHIEF TO REVIEW FUNCTIONALITY OF ALL HYDRANTS PRIOR TO RECEIVING FINAL APPROVAL.	
PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR EACH HYDRANT ASSEMBLY INSTALLED COMPLETE, TESTED, DISINFECTED, AND READY FOR SERVICE INCLUDING PERMANENT ADAPTERS.	
<u>ITEM SPECIAL - FIRE HYDRANT SERVICE LINE EXTENDED AND ADJUSTED</u> TO GRADE (CLEVELAND)	
ALL HYDRANTS SHALL BE "MUELLER-CENTURION", "KENNEDY-GUARDIAN", OR AN APPROVED EQUAL (PAINTED YELLOW). THIS ITEM SHALL INCLUDE ALL NECESSARY EXCAVATION, EMBANKMENT, DEWATERING, SHEETING, PREPARATION OF THE TRENCH BOTTOM, ROCK EXCAVATION, HYDRANT, JOINT MATERIAL, BLOCKING, ADJUSTMENT, BEDDING, BACKFILL, TESTING, DISPOSAL OF WASTE AND ALL OTHER EXPENSES WHETHER SPECIFICALLY MENTIONED OR NOT, FOR THE INSTALLATION OF A 6" HYDRANT ASSEMBLY IN ACCORDANCE WITH CLEVELAND WATER DEPARTMENT STANDARDS. SEE SHEET 945 FOR CLEVELAND WATER DEPARTMENT STANDARD CONSTRUCTION DRAWING STD-H02	
HYDRANT ASSEMBLIES SHALL BE EQUIPPED WITH A 4" HPHA HARRINGTON PERMANENT HYDRANT STORZ COUPLING AS MANUFACTURED BY	DESIGN AGENCY
THREADS ON HYDRANTS MUST BE CLEVELAND STANDARD THREAD AND MUST BE APPROVED BY THE FIRE CHIEF. THE CONTRACTOR IS REQUIRED TO SCHEDULE AN INSPECTION WITH THE FIRE CHIEF TO REVIEW FUNCTIONALITY OF ALL HYDRANTS PRIOR TO RECEIVING FINAL APPROVAL.	GPD GROUP* Glaus, Pyle, Schomer, Burns & Dehaven, Inc. 2022
PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR EACH HYDRANT ASSEMBLY EXTENDED, SHORTENED AND ADJUSTED TO GRADE COMPLETE, TESTED, DISINFECTED, AND READY FOR SERVICE INCLUDING PERMANENT ADAPTERS.	DESIGNER ATR REVIEWER PJF 11-21-23 PROJECT ID

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<u>NOTI</u>	FICATIONS AND CONTACTS
THE FOUF ACTI AND DETC	CONTRACTOR SHALL NOTIFY THE FOLLOWING ENTITIES AT LEAST RTEEN (14) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION VITIES, INCLUDED IN THE NOTIFICATION SHALL BE THE PROJECTED DATES TIME FRAMES OF ANY ROAD CLOSURES OR DETOURS, INCLUDING DURS TO THE TOWPATH TRAIL AND IMPACTS TO PARCEL 10-T.
1.	ODOT DISTRICT 12 5500 TRANSPORTATION BLVD. GARFIELD HEIGHTS, OHIO 44125 216-581-2100
2.	CITY OF CLEVELAND DEPARTMENT OF PUBLIC WORKS 500 LAKESIDE AVE. CLEVELAND, OHIO 44114 216-664-2485
3.	CITY OF CLEVELAND DIVISION OF FIRE 1645 SUPERIOR AVE., EAST CLEVELAND, OHIO 44114 216-664-6800
4.	CITY OF CLEVELAND DIVISION OF POLICE 1300 ONTARIO ST. CLEVELAND, OHIO 44113 216-623-5000
5.	CITY OF CLEVELAND METROPOLITAN SCHOOLS 1111 SUPERIOR AVE. E, SUITE 1800 CLEVELAND, OHIO 44114 216-838-0000
6.	CUYAHOGA COUNTY SHERIFF 1215 W 3RD ST. CLEVELAND, OHIO 44113 216-443-6000
7.	GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY 1240 WEST 6TH ST. CLEVELAND, OHIO 44113-1302 216-356-3270
8.	OHIO STATE HIGHWAY PATROL 5225 W 140 [™] ST. BROOKPARK, OHIO 44142 216-265-1677
9.	CUYAHOGA METROPOLITAN HOUSING AUTHORITY 8120 KINSMAN RD. CLEVELAND, OH 44104 216-348-5000
THE PRI	E FOLLOWING CONTACTS SHALL BE NOTIFIED 48 HOURS OR TO THE TOWPATH TRAIL CLOSURE.
10.	CANALWAY PARTNERS ATT: MERA CARDENAS PO BOX 609420 CLEVELAND, OH 44109 216-520-1825
11.	JEREMY SKAGGS SR. PARK MANAGER, OHIO & ERIE CANAL RESERVATION 4101 FULTON PARKWAY CLEVELAND, OHIO 44144 OFFICE: 216-341-1706 MOBILE: 440-523-1241 EMAIL: JDS1@CLEVELANDMETROPARKS.COM
SHOI AND THE	ULD ANY OF THE PROJECTED DATES AND TIME FRAMES OF THE START END OF THE ROAD CLOSURES CHANGE THROUGHOUT THE DURATION OF PROJECT, THE AGENCIES LISTED ABOVE MUST BE NOTIFIED IMMEDIATELY.
<u>SEQI</u> PRE-	UENCE OF CONSTRUCTION PHASE 1
PRIO GON FOR CON BE M CLOS DATE CON REM AT AL	R TO COMMENCING PHASE 1 CONSTRUCTION ACTIVITIES THE TRACTOR SHALL CONSTRUCT TEMPORARY PAVEMENT REQUIRED PHASE 1 AND REMOVE ALL EXISTING RUMBLE STRIPS THAT FLICT WITH THE TEMPORARY TRAFFIC PATTERNS. TRAFFIC SHALL AINTAINED IN ACCORDANCE WITH MT-95.30. ONLY ONE LANE, CENT TO ENTHER THE INSIDE OR OUTSIDE SHOULDER MAY BE SED AT ANY ONE TIME IN ACCORDANCE WITH THE MOST UP TO E ODOT PERMITTED LANE CLOSURE CHART (SEE LANE VALUE TRACT TABLE ON SHEET 61). THIS WORK ZONE SHALL BE OVED BY 6 AM DAILY. ALL RAMPS SHALL REMAIN OPEN TO TRAFFIC L TIMES.
PHAS FROI 11TH INTE WES SHOU ROAL	<u>SE 1</u> M THE BEGINNING OF THE PROJECT TO THE PEDESTRIAN BRIDGE/W. STREET THE CONTRACTOR SHALL SHIFT TWO EASTBOUND RSTATE 490 LANES TO THE OUTSIDE LANES AND SHOULDER AND ONE TBOUND INTERSTATE 490 LANE TO THE OUTSIDE LANE AND ULDER. THE CONTRACTOR SHALL CONSTRUCT ALL PROPOSED DWAY IMPROVEMENTS TO THE MEDIAN DRAINAGE, MEDIAN BARRIER,

INSIDE SHOULDERS, AND INSIDE LANES.

PHASE 1 (CONT.)

BETWEEN THE PEDESTRIAN BRIDGE/W. 11TH STREET AND THE END OF THE CUYAHOGA RIVER BRIDGE THE CONTRACTOR SHALL SHIFT THREE EASTBOUND AND WESTBOUND LANES TO THE OUTSIDE LANES AND SHOULDER. BETWEEN THE END OF THE CUYAHOGA RIVER BRIDGE AND THE END OF THE PROJECT THE CONTRACTOR SHALL SHIFT TWO EASTBOUND AND WESTBOUND LANES TO THE OUTSIDE LANES AND SHOULDER. THE CONTRACTOR SHALL CONSTRUCT ALL PROPOSED ROADWAY IMPROVEMENTS TO THE MEDIAN DRAINAGE AND MEDIAN BARRIER.

THE CONTRACTOR SHALL SUSPEND CONSTRUCTION OF THE PROPOSED MEDIAN BARRIER JUST EAST OF THE PEDESTRIAN BRIDGE/W. 11TH STREET AND CONSTRUCT THE WEST END CROSSOVER AND ASSOCIATED TEMPORARY PAVEMENT. THE CONTRACTOR SHALL ALSO CONSTRUCT THE EAST END CROSSOVER AND ASSOCIATED TEMPORARY PAVEMENT JUST TO THE EAST OF THE NS RAILROAD BRIDGE. ALL RAMPS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES.

IN ORDER TO COMPLETE THE EAST CROSSOVER TEMPORARY PAVEMENT, EAST OF THE N-S RAILROAD BRIDGE. ONE WESTBOUND **OPPORTUNITY CORRIDOR LANE SHALL BE CLOSED IN ACCORDANCE** WITH THE MOST UP TO DATE ODOT PERMITTED LANE CLOSURE CHART AND PER MT-95.30.

1ST WINTER OVER PHASE

AFTER THE COMPLETION OF PHASE 1. THE CONTRACTOR SHALL WINTER OVER IN THE PHASE 1 TRAFFIC PATTERN.

PRE-PHASE 2

PRIOR TO COMMENCING PHASE 2 CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL CONSTRUCT TEMPORARY PAVEMENT **REQUIRED FOR PHASE 2. DURING CONSTRUCTION OF THE** TEMPORARY PAVEMENT, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH MT-95.30. ONLY ONE LANE, ADJACENT TO EITHER THE INSIDE OR OUTSIDE SHOULDER MAY BE CLOSED AT ANY ONE TIME BETWEEN 8 PM – 6 AM OR IN ACCORDANCE WITH THE MOST UP TO DATE ODOT PERMITTED LANE CLOSURE CHART. THIS WORK ZONE SHALL BE REMOVED BY 6 AM DAILY. ALL RAMPS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES.

PHASE 2

FROM THE BEGINNING OF THE PROJECT TO THE PEDESTRIAN BRIDGE/W. 11TH STREET THE CONTRACTOR SHALL KEEP EASTBOUND TRAFFIC IN THE PHASE 1 TRAFFIC PATTERN AND SHIFT TWO WESTBOUND INTERSTATE 490 LANES TO THE INSIDE LANE AND SHOULDER. THE CONTRACTOR SHALL CONSTRUCT ALL PROPOSED ROADWAY IMPROVEMENTS TO THE WESTBOUND OUTSIDE SHOULDER, AND OUTSIDE LANES.

BETWEEN THE PEDESTRIAN BRIDGE/W. 11TH STREET AND THE END OF THE CUYAHOGA RIVER BRIDGE THE CONTRACTOR SHALL SHIFT THREE EASTBOUND LANES TO THE OUTSIDE LANES AND SHOULDER, SHIFT TWO WESTBOUND LANES TO THE OUTSIDE LANES AND SHOULDER, AND CROSSOVER ONE WESTBOUND LANE ONTO EASTBOUND PAVEMENT. THE CONTRACTOR SHALL CONSTRUCT ALL PROPOSED ROADWAY IMPROVEMENTS TO THE WESTBOUND INSIDE SHOULDER AND INSIDE LANES.

BETWEEN THE END OF THE CUYAHOGA RIVER BRIDGE AND THE END OF THE PROJECT THE CONTRACTOR SHALL SHIFT TWO EASTBOUND LANES TO THE OUTSIDE LANES AND SHOULDER AND CROSSOVER ONE WESTBOUND LANE. THE CONTRACTOR SHALL CONSTRUCT ALL PROPOSED ROADWAY IMPROVEMENTS TO THE FULL WIDTH WESTBOUND PAVEMENT.

ALL RAMPS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES EXCEPT FOR THE FOLLOWING RAMPS/MOVEMENTS WHICH MAY BE CLOSED AND DETOURED DURING RAMP/PAVEMENT **RECONSTRUCTION ONLY:**

WESTBOUND OPPORTUNITY CORRIDOR TRAFFIC TRYING TO ACCESS I-71 SOUTHBOUND.

THE CONTRACTOR SHALL CLOSE AND DETOUR THE TOWPATH TRAIL WHEN WORKING ON THE CUYAHOGA RIVER BRIDGE.

PHASE 2A

ALL TRAFFIC SHALL REMAIN IN THE PHASE 2 TRAFFIC PATTERN, EXCEPT FOR THE GORE AREAS BETWEEN RAMP N-W (I-77)/RAMP S-W (I-77) AND RAMP E-S (I-77)/RAMP E-S (I-77). THE CONTRACTOR SHALL SHIFT ONE LANE OF TRAFFIC TO THE OUTSIDE OF EACH RAMP AND CONSTRUCT THE CENTER GORE AREAS BETWEEN TRAFFIC. THE CONTRACTOR SHALL CLOSE AND DETOUR RAMP S-W (I-77 NB) DURING RAMP / PAVEMENT RECONSTRUCTION ONLY.

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PRE-PHASE 3

PRIOR TO COMMENCING PHASE 3 CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL CONSTRUCT TEMPORARY PAVEMENT **REQUIRED FOR PHASE 3. DURING CONSTRUCTION OF THE** TEMPORARY PAVEMENT, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH MT-95.30. ONLY ONE LANE, ADJACENT TO EITHER THE INSIDE OR OUTSIDE SHOULDER MAY BE CLOSED AT ANY ONE TIME BETWEEN 8 PM – 6 AM OR IN ACCORDANCE WITH THE MOST UP TO DATE ODOT PERMITTED LANE CLOSURE CHART. THIS WORK ZONE SHALL BE REMOVED BY 6 AM DAILY. ALL RAMPS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES.

PHASE 3

FROM THE BEGINNING OF THE PROJECT TO THE PEDESTRIAN BRIDGE/W. 11TH STREET THE CONTRACTOR SHALL KEEP EASTBOUND TRAFFIC IN THE PHASE 1 TRAFFIC PATTERN AND PLACE WESTBOUND TRAFFIC INTO THE PROPOSED TRAFFIC PATTERN. THE CONTRACTOR SHALL NOT CONSTRUCT ANY ROADWAY IMPROVEMENTS IN THIS SECTION OF PAVEMENT.

BETWEEN THE PEDESTRIAN BRIDGE/W. 11TH STREET AND THE END OF THE CUYAHOGA RIVER BRIDGE THE CONTRACTOR SHALL KEEP EASTBOUND TRAFFIC AND THE SINGLE WESTBOUND CROSSED OVER LANE IN THE PHASE 2 TRAFFIC PATTERN AND SHIFT TWO WESTBOUND LANES TO THE INSIDE LANES AND SHOULDER. THE CONTRACTOR SHALL CONSTRUCT ALL PROPOSED ROADWAY IMPROVEMENTS TO THE WESTBOUND OUTSIDE SHOULDER AND OUTSIDE LANES.

BETWEEN THE END OF THE CUYAHOGA RIVER BRIDGE AND THE END OF THE PROJECT THE CONTRACTOR SHALL KEEP BOTH EASTBOUND AND WESTBOUND TRAFFIC IN THE PHASE 2 TRAFFIC PATTERN. THE CONTRACTOR SHALL CONTINUE CONSTRUCTION OF ALL PROPOSED ROADWAY IMPROVEMENTS TO THE FULL WIDTH WESTBOUND PAVEMENT.

ALL RAMPS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES EXCEPT FOR THE FOLLOWING RAMPS/MOVEMENTS WHICH MAY BE CLOSED AND DETOURED DURING RAMP/PAVEMENT **RECONSTRUCTION ONLY:**

WESTBOUND EXIT RAMP C-7 TO W. 7TH STREET WESTBOUND ENTRANCE RAMP B-3 FROM BROADWAY AVE./ROCKEFELLER AVE. WESTBOUND OPPORTUNITY CORRIDOR TRAFFIC TRYING TO ACCESS I-71 SOUTHBOUND

THE CONTRACTOR SHALL CLOSE AND DETOUR THE TOWPATH TRAIL WHEN WORKING ON THE CUYAHOGA RIVER BRIDGE.

PHASE 3A

ALL TRAFFIC SHALL REMAIN IN THE PHASE 3 TRAFFIC PATTERN. EXCEPT FOR THE GORE AREA BETWEEN RAMP E-S (I-71) AND I-490 WB. THE CONTRACTOR SHALL SHIFT ONE LANE OF TRAFFIC TO THE OUTSIDE OF RAMP E-S (I-71) AND ONE LANE OF TRAFFIC TO THE INSIDE OF I-490 WB. THE CONTRACTOR SHALL CONSTRUCT THE CENTER GORE AREA BETWEEN TRAFFIC.

2ND WINTER OVER PHASE

AFTER THE COMPLETION OF PHASE 3, THE CONTRACTOR SHALL WINTER OVER IN THE EXISTING/PROPOSED TRAFFIC PATTERN. SEE TRAFFIC CONTROL PLANS FOR PAVEMENT MARKING PLACEMENT.

PRE-PHASE 4

PRIOR TO COMMENCING PHASE 4 CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL CONSTRUCT TEMPORARY PAVEMENT REQUIRED FOR PHASE 4. DURING CONSTRUCTION OF THE TEMPORARY PAVEMENT, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH MT-95.30. ONLY ONE LANE, ADJACENT TO EITHER THE INSIDE OR OUTSIDE SHOULDER MAY BE CLOSED AT ANY ONE TIME BETWEEN 8 PM – 6 AM OR IN ACCORDANCE WITH THE MOST UP TO DATE ODOT PERMITTED LANE CLOSURE CHART. THIS WORK ZONE SHALL BE REMOVED BY 6 AM DAILY. ALL RAMPS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES.

PHASE 4

FROM THE BEGINNING OF THE PROJECT TO THE PEDESTRIAN BRIDGE/W. 11TH STREET THE CONTRACTOR SHALL KEEP EASTBOUND TRAFFIC IN THE PHASE 1 TRAFFIC PATTERN AND KEEP WESTBOUND TRAFFIC INTO THE PROPOSED TRAFFIC PATTERN. THE CONTRACTOR SHALL NOT CONSTRUCT ANY ROADWAY IMPROVEMENTS IN THIS SECTION OF PAVEMENT.

BETWEEN THE PEDESTRIAN BRIDGE/W. 11TH STREET AND THE END OF THE CUYAHOGA RIVER BRIDGE THE CONTRACTOR SHALL SHIFT THREE WESTBOUND LANES TO THE OUTSIDE LANES AND SHOULDER, SHIFT TWO EASTBOUND LANES TO THE OUTSIDE LANES AND SHOULDER, AND CROSSOVER ONE EASTBOUND LANE ONTO WESTBOUND PAVEMENT. THE CONTRACTOR SHALL CONSTRUCT ALL PROPOSED ROADWAY IMPROVEMENTS TO THE EASTBOUND INSIDE SHOULDER AND INSIDE LANES.

BETWEEN THE END OF THE CUYAHOGA RIVER BRIDGE AND THE END OF THE PROJECT THE CONTRACTOR SHALL SHIFT TWO WESTBOUND LANES TO THE OUTSIDE LANES AND SHOULDER. SHIFT ONE EASTBOUND LANE TO THE OUTSIDE LANE AND SHOULDER, AND CROSSOVER ONE EASTBOUND LANE ONTO WESTBOUND PAVEMENT. THE CONTRACTOR SHALL CONSTRUCT ALL PROPOSED ROADWAY IMPROVEMENTS TO THE EASTBOUND INSIDE SHOULDER AND INSIDE LANES.

THE CONTRACTOR SHALL CLOSE AND DETOUR THE TOWPATH TRAIL WHEN WORKING ON THE CUYAHOGA RIVER BRIDGE.

BETWEEN THE PEDESTRIAN BRIDGE/W. 11TH STREET AND THE END OF THE CUYAHOGA RIVER BRIDGE THE CONTRACTOR SHALL KEEP WESTBOUND TRAFFIC AND THE SINGLE EASTBOUND CROSSED OVER LANE IN THE PHASE 4 TRAFFIC PATTERN AND SHIFT TWO EASTBOUND LANES TO THE OUTSIDE LANES AND SHOULDER. THE CONTRACTOR SHALL CONSTRUCT ALL PROPOSED ROADWAY IMPROVEMENTS TO THE EASTBOUND OUTSIDE SHOULDER AND OUTSIDE LANES.

ALL RAMPS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES EXCEPT FOR THE FOLLOWING RAMPS/MOVEMENTS WHICH MAY BE CLOSED AND DETOURED DURING RAMP/PAVEMENT RECONSTRUCTION ONLY:

EASTBOUND ENTRANCE RAMP 7-C FROM W. 7TH STREET EASTBOUND EXIT RAMP C-B TO BROADWAY AVE.

THE CONTRACTOR SHALL CLOSE AND DETOUR THE TOWPATH TRAIL WHEN WORKING ON THE CUYAHOGA RIVER BRIDGE.

PHASE 5A

THE CONTRACTOR CLOSE THE INSIDE LANE IN BOTH DIRECTIONS AND THE CROSSOVERS SHALL BE REMOVED AND THE PREVIOUSLY SUSPENDED MEDIAN BARRIER SHALL BE CONSTRUCTED. ALL RAMPS SHALL BE OPEN TO TRAFFIC ALL TEMPORARY DRAINAGE ITEMS TO THE INSIDE OF I-490 SHALL BE REMOVED AND RESTORED TO THE PERMANENT CONDITION. TRAFFIC SHALL BE MAINTAINED PER MT-95.30 DURING OFF-PEAK HOURS AND IN ACCORDANCE WITH THE LATEST REVISION OF THE PERMITTED LANE CLOSURE SCHEDULE (PLCS).

PHASE 7

THE CONTRACTOR SHALL PERFORM PAVEMENT PLANING OPERATIONS. PLACE THE FINAL SURFACE COURSE. AND PLACE THE FINAL PAVEMENT MARKINGS THROUGHOUT THE PROJECT LIMITS. ALL WORK SHALL BE RESTRICTED TO NIGHTTIME HOURS BETWEEN 8 PM AND 6 AM. DURING PAVEMENT PLANING OPERATIONS AND PLACEMENT OF THE FINAL SURFACE COURSE, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH MT-95.30. DURING PLACEMENT OF THE FINAL PAVEMENT MARKINGS. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH MT-99.20.



PHASE 4 (CONT.)

ALL RAMPS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES.

PRE-PHASE 5

PRIOR TO COMMENCING PHASE 5 CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL CONSTRUCT TEMPORARY PAVEMENT REQUIRED FOR PHASE 5. DURING CONSTRUCTION OF THE TEMPORARY PAVEMENT, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH MT-95.30. ONLY ONE LANE, ADJACENT TO EITHER THE INSIDE OR OUTSIDE SHOULDER MAY BE CLOSED AT ANY ONE TIME BETWEEN 8 PM – 6 AM OR IN ACCORDANCE WITH THE MOST UP TO DATE ODOT PERMITTED LANE CLOSURE CHART. THIS WORK ZONE SHALL BE REMOVED BY 6 AM DAILY. ALL RAMPS SHALL REMAIN OPEN TO TRAFFIC AT ALL TIMES.

PHASE 5

FROM THE BEGINNING OF THE PROJECT TO THE PEDESTRIAN BRIDGE/W. 11TH STREET THE CONTRACTOR SHALL SHIFT TWO EASTBOUND INTERSTATE 490 LANES TO THE INSIDE LANES AND SHOULDER AND KEEP WESTBOUND TRAFFIC INTO THE PROPOSED TRAFFIC PATTERN. THE CONTRACTOR SHALL CONSTRUCT ALL PROPOSED ROADWAY IMPROVEMENTS TO THE EASTBOUND OUTSIDE SHOULDER AND OUTSIDE LANES.

ALL TRAFFIC SHALL REMAIN IN THE PHASE 5 TRAFFIC PATTERN, EXCEPT FOR RAMP S-E (I-71) AND BETWEEN THE PEDESTRIAN BRIDGE/W. 11TH STREET AND I-490 EB BEFORE W. 7TH STREET. THE CONTRACTOR SHALL SHIFT ONE LANE OF TRAFFIC TO THE INSIDE OF RAMP S-E (I-71) AND ONE LANE OF TRAFFIC TO THE INSIDE OF I-490 EB. THE CONTRACTOR SHALL CONSTRUCT THE OUTSIDE OF RAMP S-E (I-71) AND THE REMAINING I-490 EB PAVEMENT BETWEEN THE PEDESTRIAN BRIDGE/W. 11TH STREET AND W. 7TH STREET.

PHASE 6

20	•		DESIGNER	
		REVISIONS	KI	RM
).	DATE	DESCRIPTION	REVI	EWER
		CANALWAY PARTNERS AND CLE. METROPARKS CONTACT	AKF 1	.1-21-23
7	<i>01/15/24</i>	INFO ADDED AND TOWPATH TRAIL CLOSURE ADDED TO	PROJECT II	
		SEQUENCE OF CONSTRUCTION PHASES	10/	/408
	02/27/21	ADDED TO PHASE 1 AND 6 SECUENCE OF CONSTRUCTION	SHEET	TOTAL
7	03/27/24	ADDED TO PHASE TAND 8 SEQUENCE OF CONSTRUCTION	60	1068

GPD GROUP

	<u>SC</u>	HEDULE OF THROUGH LANES TO BE MAINTAINED	<u>ITEN</u>	1 614 - MAINTAINING T	RAFFIC (CONT.)	
	ALI PE LIS	L LANE CLOSURES MAY ONLY BE IMPLEMENTED AT THE TIMES RMITTED BY THE "DISTRICT 12 PERMITTED LANE CLOSURE TIMES" ST, WHICH IS LOCATED ON THE ODOT WEBSITE:	10.	NO WORK SHALL BE MAINLINE I-490 LANE THE FOLLOWING DE	E PERFORMED AND ALL EX ES SHALL BE OPEN TO TRA ESIGNATED HOLIDAYS OR I	ISTING AFFIC DURING EVENTS:
	http:/ TH EF	//www.dot.state.oh.us/districts/D12/HighwayManagement/Pages/PermittedLaneClosures.aspx E LATEST REVISION, AT 14 DAYS PRIOR TO THE BID, SHALL BE IN FECT FOR THIS PROJECT.		CHRISTMAS NEW YEAR'S TOTAL SOLAR ECLIP	PSE (4/8/24)	FOURTH OF JULY LABOR DAY THANKSGIVING
	NO WC SH SP	LANE OR SHOULDER CLOSURES SHALL BE IN PLACE WHEN NO ORK IS BEING PERFORMED, UNLESS DIRECTED BY THE ENGINEER. OULDER CLOSURES SHALL ONLY BE ALLOWED AT THE TIMES ECIFIED FOR LANE CLOSURES.		THE PERIOD OF TIM THE DAY OF THE WE FOLLOWING SCHED	ELECTION DAY (NOV.) E THAT THE LANES ARE TO EEK ON WHICH THE HOLID. ULE SHALL BE USED TO D	MEMORIAL DAY O BE OPEN DEPENDS C AY OR EVENT FALLS. TI FTERMINE THIS PERIO
	AN WE	Y ROADWAY NOT LISTED SHALL NOT HAVE ANY CLOSURES ON EEKDAYS FROM 6:00 AM TO 9:00 AM AND 3:00 PM TO 6:00 PM.		DAY OF HOLIDAY DR SPECIAL EVENT	TIME ALL MA LANES MUST BE	AINLINE I-490 OPEN TO TRAFFIC
	CO MA	NTACT TROY ONESTI, DISTRICT 12 WORK ZONE TRAFFIC NAGER, AT (216) 584-2204 IF THERE ARE ANY QUESTIONS.		SUNDAY	12:00N FRIDAY THROUGH	H 6:00 AM MONDAY
	ALI PAI	L NOTES ON THE PERMITTED LANE CLOSURE TIMES SHALL BE RT OF THE PROJECT.		MONDAY	12:00N FRIDAY THROUGH	H 6:00 AM TUESDAY
	<u>ITE</u>	EM 614 - MAINTAINING TRAFFIC	(TC	MONDAY DTAL SOLAR ECLIPSE)	12:00N FRIDAY THROUGH	6:00 AM WEDNESDAY
	TH. FX	IS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON ISTING ROADWAYS IN ACCORDANCE WITH THE OHIO MANUAL		TUESDAY	12:00N MONDAY THROUG	GH 6:00 AM WEDNESDA
	OF HIC	UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND GHWAYS, CURRENT EDITION, LATEST REVISION, THE	<u>(</u> G	TUESDAY EN./REG. ELECTION)	5:00 AM TUESDAY THROU	JGH 12:00 AM WEDNSD
	SP	ECIFICATIONS AND THE FOLLOWING:		WEDNESDAY	12:00N TUESDAY THROU	GH 6:00 AM THURSDAY
	1.	A MINIMUM OF THREE (3) ELEVEN FOOT (11') LANES OF TRAFFIC ON I-490 (UNLESS OTHERWISE SPECIFIED IN THE		THURSDAY	12:00N WEDNESDAY THR	OUGH 6:00 AM FRIDAY
		PLANS) IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED	(7)	THURSDAY HANKSGIVING ONLY)	6:00 AM WEDNESDAY TH	ROUGH 6:00 AM MOND
		PAVEMENT OR ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, DURING CONSTRUCTION OF THE WORK.		FRIDAY	12:00N THURSDAY THRO	UGH 6:00 AM MONDAY
	2.	THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE		SATURDAY	12:00N FRIDAY THROUGH	H 6:00 AM MONDAY
		(216) 584-2006 FOURTEEN (14) DAYS PRIOR TO THE BEGINNING OF WORK.		DURING THE SAME F PEDESTRIAN ACCES	PERIOD, MAINTAIN PEDES SS WAS PRESENT PRIOR T	TRIAN ACCESS IF O CONSTRUCTION.
	3.	LANE RESTRICTIONS OR LANE REDUCTIONS SHALL NOT BE PERMITTED AFTER NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE THOSE HOURS DURING WHICH THE CONTRACTOR HAS A FULL COMPLEMENT OF EMPLOYEES		SHOULD THE CONT REQUIREMENTS, TH DISINCENTIVE PER T	RACTOR FAIL TO MEET AN IE CONTRACTOR SHALL BI THE LANE VALUE CONTRA	Y OF THESE E ASSESSED A CT (PN 127).
		AND EQUIPMENT ACTIVELY REMOVING AND/OR PLACING PAVEMENT MATERIALS.	11.	IN THE VICINITY OF OPEN TO TRAFFIC D	THE TRAIL THE EXISTING DURING THE FOLLOWING E	TOWPATH TRAIL SHALL DESIGNATED EVENTS:
	4.	WHEN DETOUR SIGNS ARE IN USE, ALL CONFLICTING SIGNS SHALL BE COVERED.		- TOWPATH MARATH - TOWPATH TRAIL LA	ON - FIRST WEEKEND OF NTERN PARADE - FIRST N	OCTOBER 2024 /EEKEND OF MARCH 20
	5.	FOR ROUTES NOT ON THE PERMITTED LANE CLOSURE CHART, ONLY DURING ANY PERIOD OTHER THAN 6-9 AM AND 3-6 PM SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.	12.	PRIOR TO OPENING SAFE, PASSABLE CC ACROSS THE FULL L BE FREE FROM UNE LONGITUDINAL JOIN	TRAFFIC EACH LANE SHA ONDITION. ALL TRANSVER ANE AND SHOULDER WID VEN LONGITUDINAL JOINT ITS SHALL BE TREATED IN	LL BE IN A SE JOINTS SHALL EXTE TH AND EACH LANE SH 'S. UNEVEN ACCORDANCE WITH O
	6.	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		SCD MT-101.90. AT U SHALL PROVIDE TEN TRANSITION FOR TH FOR TEMPORARY RA PRIOR TO PLACING AND WEDGE MATER ESTIMATED QUANTI TRAFFIC GENERAL S ENGINEER.	JNEVEN TRANSVERSE JOI MPORARY ASPHALT RAMP IE TRAVELING PUBLIC. TH AMPING AT UNEVEN TRAN THE SURFACE COURSE, A IAL SHALL BE REMOVED. TY HAS BEEN CARRIED TO SUMMARY TO BE USED AS	NTS, THE CONTRACTO ING TO ENSURE A SMO IE MINIMUM TAPER RAT SVERSE JOINTS IS 120. LL TEMPORARY RAMPI THE FOLLOWING DTHE MAINTENANCE O DIRECTED BY THE
	7	$\frac{24}{4}$	\sim	ITEM 614 - ASPHALT	CONCRETE FOR MAINTAII	NING TRAFFIC 250
=: 10:54:07 AM USEK: kmonas 107408_MN002.dgn	ζ.	A MINIMUM OF ONE LANE OF TRAFFIC ON RAMPS SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED THE CONSECUTIVE CALENDAR DAYS LISTED ON THE LANE VALUE CONTRACT TABLE, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEETS <u>124</u> - <u>136</u> . A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT LISTED ON THE LANE VALUE CONTRACT TABLE PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.	<pre>/ 13. / / / / / / / / / / / / /</pre>	THE CONTRACTOR S EXISTING ASPHALT S RUMBLE STRIPS IN T THE PLANS. THE CO SURFACES HORIZON NEXT THE CONTRAC CONCRETE SURFAC 76-22M. ALL COST AS PAVEMENT AND THE INCLUDED IN THE PE	SHALL MILL 2 INCHES BY 2 SHOULDER IN ORDER TO I THE AREA WHERE TRAFFIC NTRACTOR SHALL THEN C NTAL AND VERTICAL WITH CTOR SHALL PLACE 2 INCH E COURSE, 12.5 MM, TYPE SSOCIATED WITH THE REM E PLACEMENT OF THE SUF RICE BID PER FOOT OF TH	FEET WIDE OF THE REMOVE THE EXISTING C IS SHIFTED AS SHOW COAT ALL MILLED APPROVED AC LIQUID. HES OF ITEM 442 ASPHA E A (447), AS PER PLAN, MOVAL OF THE EXISTIN RFACE COURSE SHALL I HE FOLLOWING ITEM:
/2024 IIME DT\Sheets\1	σ.	PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS AND PROVISIONS OF THE OMUTCD AND THE FAILURE RESULTS IN A CONDITION AT THE WORK SITE WHICH IS	> > >	ITEM 614, MAINTAINI RUMBLE STRIPS, SH	NG TRAFFIC, MISC.: REMC IOULDER (ASPHALT CONC	VE RETE) <u>945(</u>
) DATE: 4/2 ngineering\M(UNSAFE FOR TRAFFIC, THE ENGINEER SHALL SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS.	> > > >	RUMBLE STRIPS LOO IS USED TO MAINTAI FOR A SMOOTH SUR	CATED WITHIN A CONCRE ⁻ IN TRAFFIC SHALL BE PAVI RFACE. IN AREAS OUTSIDE	TE SHOULDER AREA WI ED OVER WITH ASPHAL OF THE SHOULDER
: 34x22 (in. 408\400-Er	9.	THE TEMPORARY TRAFFIC CONTROL SHALL BE MAINTAINEDTHROUGHOUT THIS PROJECT BY THE CONTRACTOR.PERMANENT TRAFFIC CONTROL MAY BE TEMPORARILY	> > >	REMOVED AND THE	RUMBLE STRIPS EXPOSE	D TO ORIGINAL CONDIT
:KSIZE 389/107		RELOCATED AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING,	r U.s.	RUMBLE STRIPS, SH	IOULDER (CONCRETE)	<u>216(</u>
L: SHEE I 001 PAPE 1ts\ORD\2021\2021(DAMAGED, AND IMPROPERLY PLACED SIGNS. ANY WORK DONE BY THE CITY OF CLEVELAND OR THE OHIO DEPARTMENT OF TRANSPORTATION, INCLUDING INSTALLATION, MODIFICATION, REMOVAL AND/OR REPLACEMENT OF PERMANENT TRAFFIC CONTROL DEVICES, AS A RESULT OF WORK DONE BY THE CONTRACTOR SHALL	ALL C&M WEL CUR AND FOR	WORK AND TRAFFIC C IS 614 AND OTHER APH L AS THE OHIO MANU RENT EDITION, LATES MATERIALS SHALL BE TEM 614 - MAINTAININ	CONTROL DEVICES SHALL PLICABLE PORTIONS OF T AL OF UNIFORM TRAFFIC ST REVISION. PAYMENT FO E INCLUDED IN THE LUMP NG TRAFFIC. UNLESS SEP	BE IN ACCORDANCE W HE SPECIFICATIONS, A CONTROL DEVICES, DR ALL LABOR, EQUIPM SUM CONTRACT PRICE ARATELY ITEMIZED IN T
MODEL O:\Clier		BE AT THE EXPENSE OF THE CONTRACTOR.	PLAI	N.		

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LANE VALUE CONTRACT (PN 127)

THE CONTRACTOR SHALL BE ASSESSED DISINCENTIVES AS DESIGNATED IN THE LANE VALUE CONTRACT TABLE FOR EACH UNIT OF TIME THE DESCRIBED CRITICAL LANE/RAMP IS RESTRICTED FROM FULL USE BY THE TRAVELING PUBLIC WITHIN THE RESTRICTED TIME PERIOD. THE LANE VALUE CONTRACT TABLE IS LOCATED BELOW. THE DISINCENTIVES WILL BE ASSESSED FOR ALL RESTRICTIONS OF THE CRITICAL WORK.

CRITICAL WORK IS SHOWN IN THE LANE VALUE CONTRACT TABLE.

CRITICAL WORK IS DEFINED AS HAVING THE DESIGNATED SECTIONS OPEN TO UNRESTRICTED TRAFFIC AS SHOWN IN THE TABLE, OR THE ENTIRE PROJECT IF NOT OTHERWISE LISTED.

UNRESTRICTED TRAFFIC IS DEFINED AS ALL TRAFFIC LANES BEING AVAILABLE FOR USE WITH SPECIFIED STRIPING AND SAFETY FEATURES IN PLACE.

LANE VALUE CONTRACT TABLE					
DESCRIPTION OF CRITICAL LANE/ RAMP TO BE MAINTAINED	RESTRICTED TIME PERIOD	TIME UNIT	DISINCENTIVE \$ PER TIME PERIOD		
I-490 - BEGIN PROJECT TO SR-176 SPLIT (EB)	PER PLCS	PER LANE/ PER MINUTE	\$85		
I-490 - SR-176 SPLIT TO BROADWAY (EB)	PER PLCS	PER LANE/ PER MINUTE	\$155		
I-490 - BROADWAY TO END PROJECT (EB)	PER PLCS	PER LANE/ PER MINUTE	\$120		
I-490 - END PROJECT TO BROADWAY (WB)	PER PLCS	PER LANE/ PER MINUTE	\$265		
I-490 - BROADWAY TO I-71 SPLIT (WB)	PER PLCS	PER LANE/ PER MINUTE	\$155		
I-490 / I-71 SPLIT TO BEGIN PROJECT (WB)	PER PLCS	PER LANE/ PER MINUTE	\$125		

DRUM REQUIRMENTS

IN ADDITION TO THE REQUIREMENTS OF THE PLANS. SPECIFICATION AND PROPOSAL, DRUMS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AT THE TIME OF ARRIVAL ON THE PROJECT. ANY DRUMS BROUGHT ON THE PROJECT. WHICH HAVE PREVIOUSLY BEEN USED ELSEWHERE. WILL NOT BE ACCEPTED. PAYMENT FOR DRUMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES AND CARRIED TO THE MAINTENANCE OF TRAFFIC GENERAL SUMMARY:

ITEM 616, WATER

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.

<u>300</u> MGAL

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, ETC.

AN ESTIMATED QUANTITY OF <u>50</u> EACH HAS BEEN PROVIDED IN THE MAINTENANCE OF TRAFFIC GENERAL SUMMARY.





THE GLARE SCREEN SYSTEM SHALL BE SECURELY FASTENED TO THE 32-INCH PORTABLE BARRIER USING THE HARDWARE AND PROCEDURES SPECIFIED BY THE MANUFACTURER. FOR DIRECTIONS ON HOW TO INSTALL THE GLARE SCREEN AND THE BARRIER, SEE THE MANUFACTURER'S INSTRUCTIONS. PAYMENT SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR ITEM 622, PORTABLE BARRIER, 50", AS PER PLAN.

PORTIONS OF THE MOT PLANS AS DESCRIBED BELOW HAVE APPROVED MOT EXCEPTION PER TRAFFIC MANAGEMENT IN WORK ZONES POLICY (21-008(P)) AND STANDARD PROCEDURE (123-001(SP))

APPROVED MOT EXCEPTION(S) INCLUDE:

I-77 SB TO I-490 EB (RAMP N-E) I-77 NB TO I-490 WB (RAMP S-W)

A MAINTENANCE OF TRAFFIC MEETING SHALL BE HELD A MINIMUM OF 30 CALENDAR DAYS PRIOR TO IMPLEMENTATION OF EACH APPROVED MOT EXCEPTION. THIS MEETING SHALL INCLUDE THE DISTRICT WORK ZONE TRAFFIC MANAGER AND THE CITY OF CLEVELAND AS WELL AS THE CONTRACTOR, WORKSITE TRAFFIC SUPERVISOR (WTS) AND ANY SUBCONTRACTORS INVOLVED WITH TEMPORARY TRAFFIC CONTROL

IN ADDITION TO ANY NOTIFICATIONS REQUIRED IN OTHER NOTES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AT LEAST 3 BUSINESS DAYS IN ADVANCE OF IMPLEMENTATION OF THE APPROVED MOT EXCEPTION REFERENCED ABOVE SO THAT THE PROJECT ENGINEER CAN SEND EMAIL NOTIFICATION TO THE OFFICE OF ROADWAY ENGINEERING. STATEWIDE TMC. DWZTM AND SPECIAL HAULING PERMITS AT LEAST 2 BUSINESS DAYS IN ADVANCE OF THE IMPLEMENTATION OF THE APPROVED MOT EXCEPTION REFERENCED ABOVE. REFERENCE "EXCEPTION REQUEST APPROVAL DATED 12 / 07 / 2023 FOR PID 107408" IN THE NOTIFICATION AND OTHER CORRESPONDENCE.

ANY CHANGES TO THE MOT THAT IMPACT THE PREVIOUSLY APPROVED MOT EXCEPTION LISTED ABOVE SHALL BE APPROVED IN WRITING BY THE MOT EXCEPTION COMMITTEE (MOTEC). IN THE EVENT THAT SUCH CHANGES ARE PROPOSED, THE REQUEST SHALL BE COORDINATED THROUGH THE DISTRICT WORK ZONE TRAFFIC MANAGER (DWZTM) A MINIMUM OF 30 CALENDAR DAYS PRIOR TO THE DESIRED IMPLEMENTATION DATE. IF THE DISTRICT AGREES WITH THE PROPOSED CHANGES THE DWZTM SHALL SEEK APPROVAL FROM THE MOTEC. IN THE EVENT THE PROPOSED CHANGES ARE APPROVED IN WRITING. THE CLOSURES ARE STILL SUBJECT TO NOTIFICATION REQUIREMENTS WITHIN THIS NOTE PRIOR TO IMPLEMENTATION.

ITEM 622 - PORTABLE BARRIER, 50", AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING, MAINTAINING, AND SUBSEQUENTLY REMOVING A 50-INCH PORTABLE BARRIER AT THE LOCATIONS SHOWN ON THE PLANS. FOR DETAILS, SEE SCD RM-4.1.

PORTABLE STEEL BARRIER IS AN APPROVED ALTERNATIVE TO PORTABLE CONCRETE BARRIER. FOR INFORMATION ON APPROVED VENDORS, SEE THE APPROVED PRODUCTS LIST MAINTAINED BY THE OFFICE OF ROADWAY ENGINEERING.

PORTABLE BARRIER, 32 INCHES HIGH WITH AN 18-INCH MINIMUM HEIGHT GLARE SCREEN MAY BE USED AT THE OPTION OF THE CONTRACTOR. THE GLARE SCREEN SHALL BE CONSTRUCTED USING ONE OF THE SCREENS PROVIDED ON THE APPROVED LIST. AVAILABLE ON THE OFFICE OF ROADWAY ENGINEERING WEBSITE.

PADDLE OR INTERMITTENT TYPE GLARE SCREENS SHALL BE DESIGNED USING A 20 DEGREE CUT-OFF ANGLE BASED ON TANGENT ALIGNMENT. THAT SPACING SHALL BE USED THROUGHOUT THE BARRIER LENGTH WITHOUT REGARD TO BARRIER CURVATURE.

APPROVED MAINTENANCE OF TRAFFIC (MOT) POLICY EXCEPTION

ITEM 614 - DETOUR SIGNING

ALL REQUIRED SIGNS AND SUPPORTS SHALL BE FURNISHED, ERECTED, MAINTAINED AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. PAYMENT FOR ALL WORK ASSOCIATED WITH THE DETOUR SHALL BE INCLUDED UNDER THE LUMP SUM BID FOR ITEM 614 - DETOUR SIGNING.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE MAINTENANCE OF TRAFFIC GENERAL SUMMARY:

ITEM 614 - DETOUR SIGNING <u>LS</u>

		REVISIONS	GPD GROUP* Glaus, Pyle, Schomer, Burns & Dehaven, Inc. Copyright: Glaus, Pyle, Schomer, Burns & Dehaven, Inc. 2020
NO.	DATE	DESCRIPTION	DESIGNER
	01/15/24	ADDED #11 TO 614 - MOT NOTE AND MOVED PORTION OF THE LANE VALUE CONTRACT TO NEW NOTE ON NEW SHEET 65A	KRM REVIEWER AKF 11-21-23
4	03/27/24	ADDED #13 TO ITEM 614 MOT NOTE	PROJECT ID 107408
4	04/02/24	REMOVED ITEM 611 - 12" CONDUIT, TYPE B, AS PER PLAN	SHEET TOTAL 61 1068

ESIGN AGENCY

THE FOLLOWING WORK ZONE SPEED ZO IMIT REVISION(S) HAVE BEEN APPROVE PROJECT WHEN WORK ZONE CONDITION	ONE (WZSZ) SPEED ED FOR USE ON THIS NS AND FACTORS ARE	TABLE 1: WARRANTED WORK WORK ZONES ON HIGH-SPEE LANE HIGHWAYS
MET AS DESCRIBED BELOW:		WITH POS
WZSZ REVISION NUMBER(S)	DIRECTION(S)	ORIGINAL POSTED SPEED LIMIT WO
WZ - 65263-00	CUY-490-0.00-1.00	65
WZ - 65264-00	CUY-490-1.00	60
WZ - 65263-01	CUY-490-1.75-2.28	55
POTENTIAL WZSZ LOCATIONS SHALL HA	VE AN ORIGINAL (PRE-	WITHOUT PC
GREATER. A QUALIFYING WORK ZONE C	OF 55 MPH OR ONDITION OF AT	ORIGINAL POSTED SPEED LIMIT W
EAST 0.5 MILE IN LENGTH, AN EXPECTE	D WORK DURATION	65
OF AT LEAST THREE HOURS, AND A WOP IN PLACE THAT REDUCES THE EXISTING	RK ZONE CONDITION	60 55
THE TRAVEL LANES OR SHOULDERS (I.E	., LANE CLOSURE,	
_ANE SHIFT, CROSSOVER, CONTRAFLOU CLOSURF). THE LENGTH OF THE WORK	N AND/OR SHOULDER ZONF CONDITION IS	THE FOLLOWING ESTIMATED
MEASURÉD FROM THE BEGINNING OF T	HE TAPER FOR THE	
SUBJECT WORK ZONE CONDITION IMPA	CTING THE TRAVEL OF THE DOWNSTREAM	ITEM 808, DIGITAL SPEED LII SIGN ASSEMBLY
TAPER, WHERE DRIVERS ARE RETURNE	D TO TYPICAL	
ALIGNMENT. AN EXPECTED WORK DURA THREE HOURS IS REQUIRED TO BALANC	TION OF AT LEAST THE ADDITIONAL	ASSUMING <u>3</u> DSL SIGN ASSEI
EXPOSURE CREATED BY INSTALLING AN	ID REMOVING WZSZ	ASSUMING 2 DSL SIGN ASSE
SIGNING WITH THE TIME NEEDED TO CC	MPLETE THE WORK.	
F THE WORK ZONE MEETS THESE MININ	MUM CRITERIA, IT	WORK ZONE INCREASED PEN
SHALL BE ANALYZED FURTHER USING TA	ABLE 1 BELOW TO	R11-H5A-48 SIGNS SHALL BE F
REDUCTION. DEPENDING ON THE ORIGI	NAL POSTED SPEED	NECESSARY AND SUBSEQUE
IMIT, THE TYPE OF TEMPORARY TRAFF	IC CONTROL USED,	CONTRACTOR. SIGNS SHALL
NZSZ WILL VARY IN THE APPROVED SPE	EED LIMIT TO BE	THE OHIO MANUAL OF UNIFO
POSTED OVER TIME.		THEY SHALL BE MAINTAINED
C&MS ITEM 614, PARAGRAPH 614.02(B), I	INDICATES THAT	SALLI I UNITERIA.
WO DIRECTIONS OF A DIVIDED HIGHWA	AY ARE CONSIDERED	THE SIGNS MAY BE ERECTED
MULTI-LANE DIVIDED HIGHWAY IS LIMI	TED TO ONLY ONE	SIGNS SHALL BE REMOVED O
DIRECTION, A SPEED LIMIT REDUCTION	IN THE DIRECTION	HOURS FOLLOWING RESTOR
SPEED LIMIT REDUCTION IN THE OPPOS	SITE DIRECTION.	ENGINEER. TEMPORARY SIGN
EACH DIRECTION SHALL BE ANALYZED	NDEPENDENTLY FROM	TO TEMPORARY LANE RESTO
EAGH UTHER.		RESTORATIONS SHOULD BE E
LL WZSZS FLUCTUATE BETWEEN TWO	APPROVED REDUCED	FOR 30 OR MORE CONSECUT
IMIT AND THE ORIGINAL POSTED SPEE	D LIMIT. ONLY ONE	DURING WINTER SHUT-DOWN
OF TWO SIGNING STRATEGIES SHALL BE	E USED TO IMPLEMENT	THE SIGNS ON THE MAINLINE
VVZSZ.		UNLESS NOT PHYSICALLY PO BE PLACED BETWFFN THF RO
ZSZS USING DSL SIGN ASSEMBLIES SH	HALL BE IN	AND THE NEXT SIGN IN THE S
JCORDANCE WITH THIS NOTE, APPRO	VED LIST, 08 AND 908. AND	ERECTED ON EACH ENTRANC
RAFFIC SCD MT-104.10.		MAINLINE SHALL BE R11-H5A-
ΟΝΙ Υ ΟΝΕ ΨΔΩΡΔΝΙΤΕΠ ΩΡΕΕΠ Ι ΙΜΙΤ ΔΕ	PHIES AT ANV ONE	RAMPS SHALL BE R11-H5A-24.
TIME; SPEED LIMIT REDUCTIONS ARE NO	OT CUMULATIVE.	IS NOT PHYSICALLY POSSIBLE
VZSZS SHALL NOT BE USED FOR MOVIN	IG/MOBILE	SIGNS IN THE MEDIAN.
ACTIVITIES, AS DEFINED IN UMUTED PAI	ΛΤΟ.	THE R11-H5A-48 SIGNS SHALL
HEN LOOKING UP THE WARRANTED W	ORK ZONE SPEED	POSTS WHEN LOCATED WITH
POSTED SPEED LIMIT. DO NOT USE A PR	E-CONSTRUCTION, RIOR OR CURRENT	THE CONTRACTOR MAY USE S
VORK ZONE SPEED LIMIT AS A LOOK UP	VALUE IN THE	BUT GOOD, CONDITION PROV
PORTABLE BARRIER OR OTHER RIGID B	ARRIER IN USE ALONG	RETROREFLECTORIZED WITH
HE WORK AREA WITHIN THE SUBJECT	WARRANTED WORK ZONE	WITH THE REQUIREMENTS OF
CONDITION. WITHOUT POSITIVE PROTEC	STION IS GENERALLY SHADOW VEHICLE	WORK ZONE INCREASED PEN
ETC., ALONG THE WORK AREA WITHIN T	HE SUBJECT	WILL BE MEASURED AS THE N
WARRANTED WORK ZONE CONDITION. V	NORKERS ARE	INSTALLATIONS, INCLUDING T
WITHIN THE SUBJECT WARRANTED WOR	RK ZONE CONDITION.	REMOVED AND REERECTED A
WHEN THE WORK ZONE CONDITION REL	DUCING THE EXISTING	DIRECTED BY THE ENGINEER
MOVED, THE SPEED LIMIT DISPLAYED SI	HALL RETURN TO THE	ANUTHER UNIT.
ORIGINAL POSTED SPEED LIMIT.		PAYMENT FOR ACCEPTED QU
		SHALL BE FULL COMPENSATI
		INCIDENTALS AND EQUIPMEN
		MAIN I AINING, COVERING DUF REMOVAL OF THE SIGN AND S
		QUANTITY HAS BEEN CARRIE
		TRAFFIC GENERAL SUMMARY
		ITEM 614, WORK ZONE INCK

WZSZS) (CONT.)

ZONE SPEED LIMITS (MPH) FOR

PLAN FOR INFORMATION ONLY. ED (55 MPH OR GREATER) MULTI-EXCAVATION FOR MAINTAINING TRAFFIC SITIVE PROTECTION WORKERS NOT PRESENT EMBANKMENT FOR MAINTAINING TRAFFIC ORKERS PRESENT 60 65 WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT 55 60 OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR 55 60 TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY 50 55 TO THE MAINLINE UNDERCUTS A GEOTECHNICAL EVALUATION **OSITIVE PROTECTION** SHOU SOIL (ORKERS PRESENT WORKERS NOT PRESEN TEMPO 55 TEMP 50 60 50 60 55 45 <u>ITEM 6</u> QUANTITY HAS BEEN CARRIED TO HAZAł FIC GENERAL SUMMARY. MIT (DSL) <u>42 SNMT</u> MBLIES FOR 12 MONTHS EMBLIES FOR $\overline{2}$ MONTHS EMBLIES FOR 1 MONTHS SPECIFICATIONS. NALTIES SIGN (R11-H5A) FURNISHED, ERECTED, AND ITION AND/OR REPLACED AS NTLY REMOVED BY THE BE MOUNTED AT THE ELEVATIONS AS PRESCRIBED BY RM TRAFFIC CONTROL DEVICES. ON SUPPORTS MEETING CURRENT ENGINEER FOR ACCEPTANCE. OR UNCOVERED NO MORE THAN CTUAL START OF WORK. THE R COVERED NO LATER THAN FOUR ATION OF ALL LANES TO TRAFFIC SOONER AS DIRECTED BY THE N COVERING AND UNCOVERING DUE RATIONS SHALL BE GUIDED BY S STATED ABOVE. SUCH LANE EXPECTED TO REMAIN IN EFFECT TIVE CALENDAR DAYS, SUCH AS IS. SHALL BE DUAL MOUNTED SSIBLE. THE FIRST SIGN SHALL DAD WORK AHEAD (W20-1) SIGN SEQUENCE. SIGNS SHALL BE CE RAMP AND EVERY 2 MILES ON WORK LIMITS. SIGNS ON THE 48. SIGNS USED ON THE R11-H5A-24 SIGNS MAY BE OF R11-H5A-48 SIGNS IF IT E TO PROVIDE R11-H5A-48 BE MOUNTED ON 2 NO. 3 IIN CLEAR ZONES. CONDITION ARE ACCEPTABLE. SIGNS AND SUPPORTS IN USED. IDED THE SIGNS MEET CURRENT FACES SHALL BE H TYPE G SHEETING COMPLYING F C&MS 730.19. NALTIES SIGNS AND SUPPORTS NUMBER OF SIGN THE SIGN AND NECESSARY JPPORT COMBINATION IS AT ANOTHER LOCATION AS R, IT SHALL BE CONSIDERED

JANTITIES. COMPLETE. IN PLACE RACT UNIT PRICE. PAYMENT ON FOR ALL MATERIALS, LABOR, NT FOR FURNISHING, ERECTING, RING SUSPENSION OF WORK, AND SUPPORT. THE FOLLOWING ED TO THE MAINTENANCE OF

REASED

<u>14</u> EACH

ITEM 614 - WORK ZONE CROSSOVER LIGHTING SYSTEM

2 EACH

REI BAI QRI SEI SUN SUN SUN ABI CAI
TRI ON SH, DR CLO THI ON TIM
PL/ TW EX MIN RE CO
<u>32"</u> PL/ PEI PEI ASS - PO

E MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION
LD BE CONSIDERED TO DETERMINE IF THE EXISTING
CONDITIONS ARE ADEQUATE TO SUPPORT THE
ORARY ROAD. ADDITIONAL SOIL BORINGS ALONG THE
ORARY ROAD ARE NOT NORMALLY REQUIRED.
314 - WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE
RDS (UNIDIRECTIONAL)

<u>1573</u> CU. YD.

<u>563</u> CU. YD.

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE

EARTHWORK FOR MAINTAINING TRAFFIC

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

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

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 614 - WORK ZONE CROSSOVER LIGHTING SYSTEM

THIS WORK SHALL CONSIST OF FURNISHING, ERECTING, OPERATING, MAINTAINING AND REMOVING A WORK ZONE LIGHTING SYSTEM FOR A SINGLE CROSSOVER, OR OVERLAPPING A PAIR OF CROSSOVERS. THE SYSTEM SHALL BE AS SHOWN ON TRAFFIC SCD MT 100.00. THE CONTRACTOR SHALL ARRANGE FOR AND PAY FOR POWER. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE PORTIONS OF 625 AND 725 EXCEPT: THE PERFORMANCE TEST OF 625.19F. AND CERTIFIED DRAWING REQUIREMENT OF 625.06, ARE WAIVED AND USED MATERIALS IN GOOD

POLES WHICH ARE NOT PROTECTED BY GUARDRAIL OR PORTABLE BARRIER SHALL BE LOCATED OUTSIDE THE CLEAR ZONE. AND SHOULD BE LOCATED AT LEAST 30 FEET (PREFERABLY 40 FEET) FROM THE EDGE OF PAVEMENT WHEN POSSIBLE. ADDITIONAL POLE LINES, CABLES AND APPURTENANCES NECESSARY TO FURNISH POWER TO THE LIGHTING SYSTEM SHALL BE INCLUDED IN THIS ITEM. SERVICE POLES SHALL BE POSITIONED WITH THE SAME CONSTRAINTS AS THE LIGHTING POLES AS A MINIMUM.

PAYMENT WILL BE MADE AT THE UNIT PRICE PER EACH FOR ITEM 614. WORK ZONE CROSSOVER LIGHTING SYSTEM THROUGHOUT ALL PHASES OF WORK WHEN THE CROSSOVER ROADWAYS ARE USED. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE MAINTENANCE OF TRAFFIC GENERAL SUMMARY.

FLOODLIGHTING FLOODLIGHTING OF THE W CONDUCTED DURING NIGH ACCOMPLISHED SO THAT T TO THE DRIVERS ON THE R ADEQUACY OF THE FLOOD AND THE ENGINEER SHALL EACH NIGHT WHEN THE LIG OPERATIVE PRIOR TO COM DETECTED, THE LIGHT PLA ADJUSTED TO THE SATISFA WORK PROCEEDS.	ORK SITE FOR (TTIME PERIODS HE LIGHTS DO I OADWAY. TO EN LIGHT PLACEME DRIVE THROUG GHTING IS IN PLA MENCING ANY V CEMENT AND SI ACTION OF THE I	OPERATIONS S SHALL BE NOT CAUSE GLARE NSURE THE ENT, THE CONTRACTOR GH THE WORK SITE ACE AND WORK. IF GLARE IS HIELDING SHALL BE ENGINEER BEFORE	
PAYMENT FOR ALL LABOR, BE INCLUDED IN THE LUMP 614, MAINTAINING TRAFFIC.	EQUIPMENT AN SUM CONTRAC	D MATERIALS SHALL T PRICE FOR ITEM	
MAINTENANCE OF CANOE CANOE TRAFFIC SHALL BE CONSTRUCTION OF THE PF RIVER CHANNEL OR THROU THE ENGINEER.	<u>TRAFFIC</u> MAINTAINED TH ROJECT EITHER JGH PORTAGE 1	ROUGHOUT THROUGH EXISTING RAIL APPROVED BY	
ADEQUATE SIGNING BOTH BE INSTALLED AND MAINTA FOLLOWING TYPE SIGNS AI TREATMENT:	UPSTREAM AND INED BY THE CO RE CONSIDEREI	DOWNSTREAM SHALL DNTRACTOR. THE D TO BE MINIMUM	ES
1. APPROXIMATELY ONE WARNING TYPE SIGN	E-QUARTER MILE S ON BOTH BAN	E UPSTREAM, ADVANCED IKS;	LON
2. APPROXIMATELY 300 ACTIONS REQUIRED	FEET UPSTREA OF CANOEIST O	M, SIGNS SPECIFYING N BOTH BANKS;	L FIC
3. APPROXIMATELY ONE ADVANCE WARNING 1	E-QUARTER MILE TYPE SIGNS ON	E DOWNSTREAM, BOTH BANKS; AND	[RAF
4. APPROXIMATELY 300 SPECIFYING ACTIONS BANKS.	FEET DOWNSTF S REQUIRED OF	REAM, SIGNS CANOEIST OF BOTH	OF 1
OVERNIGHT TRENCH CLOS THE BASE WIDENING SHALL NO MORE THAN 3.25" INCHE PAVEMENT BY THE END OF SHALL BE LEFT OPEN OVER LENGTH (25 FEET OR LESS) END OF THE TRENCH. IN CA BECAUSE OF INCLEMENT W TRENCH FOR THE UNCOMP BACKFILLED AT THE DIREC	MAINTENANC		
CONCRETE MEDIAN BARRI REMOVING, GRADING AND BARRIER WITHIN THE PROJ ORERATION SHALL BE LIMIT SEE DETAIL SHEETS 287-28 SUBJECT TO THE APPROVA ENGINEER SHALL BE SATIS WILL AFFORD MAXIMUM PR ABOVE QUANTITY HAS BEE CALCULATIONS	ER REPLACEME INSTALLING THE IECT LIMITS IN A RED TO <u>471'</u> LINE 8, AND SHALL A A OF THE ENGIN RED THAT ALL OTECTION FOR N INCLUDED IN	ENT EREPLACEMENT CONTINUOUS EAR FEET , T ALL TIMES BE NEER. THE NSTALLATIONS TRAFFIC. THE ROADWAY OFFICE	
TRENCH FOR WIDENING TRENCH EXCAVATION FOR ONE SIDE OF THE PAVEMEN SHALL BE ADEQUATELY MA DRUMS OR BARRICADES AT PROPOSED SUBBASE AND CLOSELY AS POSSIBLE BEH THE LENGTH OF WIDENING ONE TIME SHALL BE HELD T TIMES BE SUBJECT TO APP	BASE WIDENING NT AT A TIME. TH INTAINED AND F T ALL TIMES. PLA BASE MATERIAL HIND EXCAVATIC TRENCH WHICH TO A MINIMUM A ROVAL OF THE	G SHALL BE ONLY ON HE OPEN TRENCH PROTECTED WITH ACEMENT OF SHALL FOLLOW AS ON OPERATIONS. H IS OPEN AT ANY ND SHALL AT ALL ENGINEER.	
PLACEMENT OF ASPHALT OF TWO-WAY TRAFFIC SHALL E EXCEPT THAT ONE-WAY TR MINIMUM PERIODS OF TIME REQUIREMENTS OF THE SF COMPLETED ASPHALT COM	CONCRETE BE MAINTAINED AFFIC WILL BE F CONSISTENT V PECIFICATIONS F CRETE COURSE	AT ALL TIMES PERMITTED FOR VITH THE FOR PROTECTION OF FS	DESIGN AGENCY
<u>32" PORTABLE BARRIER (A</u> PLAN			
ALL 32" PORTABLE BARRIER PER PLAN CAN BE SUBSTIT PER PLAN (ANCHORED OR ASSOCIATED WITH THE CH/ - PORTABLE BARRIER, ANCH PORTABLE BARRIER, ANCH	GPD GROUP* Glaus, Pyle, Schomer, Burns & Dehaven, Inc. Copyright: Glaus, Pyle, Schomer, Burns & Dehaven, Inc. 2020 DESIGNER KRM		
I UNIADLE DARRIER, UNAN	UNCU, AS PE		REVIEWER AKF 11-21-23
	NO. DATE	REVISIONS DESCRIPTION	PROJECT ID 107408
	4 04/02/24	MODIFIED CONCRETE MEL BARRIER REPLACEMENT N	DIAN SHEET TOTAL NOTE 62 1068

	WINTER OVER PHASE WORK ZONE PAVEMENT MAR CROSSOVER CLOSURE	KINGS AND	
	THE CONTRACTOR SHALL INSTALL THE WINTER OV ZONE PAVEMENT MARKINGS AND CLOSE THE CROS PORTABLE BARRIER PER THE TYPICAL SECTIONS F LAYOUT OF THE WINTER OVER ZONES. TEMPORAF MARKINGS SHALL BE PER THE REQUIREMENTS OF AND 614.11. THE PORTABLE BARRIER TO CLOSE TH SHALL BE OVERLARPED WITH THE MEDIAN BARRIE ELIMINATE THE BLUNT END OF THE MEDIAN BARRIE WINTER OVER PHASE SHALL MATCH THE FINAL PAN MARKING PLANS. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED MAINTENANCE OF TRAFFIC GENERAL SUMMARY:	ER WORK SOVER WITH OR THE Y PAVEMENT C&MS 614.04 E CROSSOVER RTØ ER. THE 3RD /EMENT	
	1ST WINTER OVER PHASE QUANTITIES:		
	ITEM 614 - WORK ZONE LANE LINE,		
	CLASS I, 6" ITEM 614 - WORK ZONE EDGE LINE,	<u>0.70</u> MILE	
	CLASS I, 6" ITEM 614 - WORK ZONE CHANNELIZING	<u>7.79</u> MILE	
	LINE, CLASS I, 12"	<u>12648</u> FT	
	CLASS I	<u>720</u> FT	
	2ND WINTER OVER PHASE QUANTITIES:		H
	TTEM 614 - WORK ZONE LANE LINE, CLASS I, 6"	<u>6.47</u> MILE	
	ITEM 614 - WORK ZONE CENTER LINE, CLASS I	<u>0.05</u> MILE	
	ITEM 614 - WORK ZONE EDGE LINE, CLASS I, 4"	<u>0.17</u> MILE	
	ITEM 614 - WORK ZONE EDGE LINE, CLASS I. 6"	13.94 MILE	8 8 0
	ITEM 614 - WORK ZONE CHANNELIZING LINE. CLASS I. 12"	 11247 FT	
	ITEM 614 - WORK ZONE DOTTED LINE, CLASS I	 4100 FT	
	ITEM 614 - BARRIER REFLECTOR, TYPE 1 (ONF-WAY)	22 FACH	
	ITEM 614 - OBJECT MARKER, ONE-WAY ITEM 622 - PORTABLE BARRIER, 50", AS PER PLAN	<u>11</u> EACH <u>510</u> FT	
	4 3RD WINTER OVER PHASE QUANTITIES:	$\langle \cdot \cdot \cdot \cdot \rangle$	
	(TIEM 614 - WORK ZONE LANE LINE,		
	(ITEM 614 - WORK ZONE CENTER LINE,	<u>10.79</u> MILE	
	(ITEM 614 - WORK ZONE EDGE LINE,	<u>0.11</u> MILE 2	
	(ITEM 614 - WORK ZONE CHANNELIZING	<u>14.57</u> MILE 2	
	LINE, CLASS I, 12" LITEM 614 - WORK ZONE DOTTED LINE,	<u>15868</u> FI Z	
	CLASS I ITEM 614 - WORK ZONE STOP LINE	<u>8869</u> FT { <u>70</u> FT {	
	> ITEM 614 - WORK ZONE LANE ARROW > ITEM 614 - MAINTAINING TRAFFIC, MISC.:	<u>_24</u> EACH {	
	LANE REDUCTION ARROW	<u>1</u> EACH $\frac{1}{3}$	
	FITEM 614 - MAINTAINING TRAFFIC, MISC.: LANE RED ARROW SHALL BE PER THE PERMANENT DESIGN E MATERIAL SHALL BE WORK ZONE PAVEMENT MARK 642 PAINT.	UCTION XCEPT THE ING CLASS I,	
	WORK ZONE SIGNING		
	THE FOLLOWING ESTIMATED QUANTITIES HAVE BE IN THE MAINTENANCE OF TRAFFIC GENERAL SUMN WORK ZONE SIGNING AS SHOWN ON THE MAINTEN TRAFFIC ELEVATION DETAILS.	EN INCLUDED IARY FOR THE ANCE OF	
וממוסיו	ITEM 630 - SIGN ATTACHMENT ASSEMBLY	14 EACH	
$\tilde{\mathbf{p}}$	ITEM 630 - SIGN. OVERHEAD EXTRUSHEET	824.3 SF	
	ALL MATERIAL LAROR AND FOLLIPMENT REOLUDED	TO INSTALL	
	AND SUBSEQUENTLY REMOVE SOLID WOOD POST APPROVED EQUAL) FOR WORK ZONE SIGNING SHA INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MA TRAFFIC.	SUPPORTS (OR LL BE AINTAINING	
	ALL MATERIAL, LABOR AND EQUIPMENT TO REMOV AND/OR RELOCATE EXISTING OVERHEAD MOUNTED BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 TRAFFIC.	E, ADJUST D SIGNS SHALL - MAINTAINING	
	ALL REMAINING WORK ZONE SIGNING AND TEMPOR SUPPORTS NOT SPECIFICALLY ITEMIZED SHALL BE THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TR	RARY INCLUDED IN RAFFIC.	

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NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED. NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT. DETOUR ROUTES. IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER

NOTIFICAION OF TRAFFIC RESTRICTION			
ITEM DURATION OF CLOSURE NOTICE DUE		NOTICE DUE TO PERMITS & PIO	
5045	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE	
CLOSURES	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE	
	< = 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE	
LANE CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE	
& RESTRICTIONS	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE	
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION	

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

NOTICE OF CLOSURE SIGN

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 TIMETABLE 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 SIGNS SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

	NOTICE OF CLO	SURE TIME TABLE
<u>ITEM</u>	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
	<u>></u> 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
ROAD	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
CLOSURES	<u><</u> 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 GENERAL SWITCHBOARD NUMBER.

CROSSOVER #1/3/4/6 - #2/5 CONSTRUCTION AND REMOVAL

CROSSOVER CONSTRUCTION SHALL INCLUDE THE PLACEMENT OF A VARIABLE DEPTH ASPHALT PAVEMENT IN THE SHOULDER AREA. SLOTTED DRAWS AND TEMPORARY OUTLETS ARE INCLUDED IN ORDER TO PROMOTE DRAINAGE. THE REQUIREMENTS OF ITEM 611.04BCD SHALL BE WAVED FOR THE FOLLOWING AS PER PLAN TEMPORARY DRAINAGE ITEMS. THE FOLLOWING ITEMS ARE INCLUDED IN THE MAINTENANGE OF TRAFFIC GENERAL SUMMARY FOR THE CROSSOVER CONSTRUCTION:

HEM611-12"CONDULT. TYRE B. AS PER PLAN 452 FT ITEM 611 - SLOTTED DRAIN, TYPE 1, 12", AS PER PLAN <u>1150</u> FT

mmmmm CROSSOVER REMOVAL SHALL INCLUDE REMOVING THE SLOTTED DRAINS, ALL ASSOCIATED PAVEMENT REPAIR, FILL AND PLUG SLOTTED DRAIN OUTLETS AND PAVEMENT PLANING TO RESTORE THE SURROUNDING PAVED SURFACES TO THEIR ORIGINAL CONDITION AND GRADE. THE FOLLOWING ITEMS ARE INCLUDED IN THE MAINTENANCE OF TRAFFIC GENERAL SUMMARY FOR THE CROSSOVER CONSTRUCTION:

ITEM 202 - PIPE REMOVED	
ITEM 253 - PAVEMENT REPAIR	
ITEM 254 - PAVEMENT PLANING	

PAVEMENT REPAIR SHALL INCLUDE THE REMOVAL OF THE TEMPORARY SLOTTED DRAINS IN THE CROSSOVER AREAS. THE CONTRACTOR SHALL SAW CUT A NEAT EDGE ONE (1) FOOT FROM THE EDGE OF THE TEMPORARY SLOTTED DRAINS. REMOVE THE SLOTTED DRAINS. AND REMOVE EXCESS EXISTING PAVEMENT PER C&MS 253.02. THIS TRENCHED AREA SHALL BE REPLACED WITH ASPHALT PAVEMENT TO MATCH THE EXISTING ASPHALT PAVEMENT COMPOSITION, AS DIRECTED BY THE ENGINEER. AFTER BACKFILLING OF THE CAVITY PER C&MS 202.02, THE CONTRACTOR SHALL PROVIDE AN ASPHALT CONCRETE PAVED SURFACE IN THIS AREA BY MATCHING THE EXISTING ASPHALT PAVEMENT COMPOSITION, AS DIRECTED BY THE ENGINEER.

ANY ADDITIONAL ITEMS OF WORK NOT SPECIFICALLY LISTED WHICH ARE REQUIRED TO CONSTRUCT OR REMOVE THE CROSSOVERS SHALL BE CONSIDERED INCIDENTAL TO AND INCLUDED IN THE LUMP SOM BID FOR ITEM 615 - ROADS FOR MAINTAINING TRAFFIÇ

LLLL

TEMPORARY TROUGHS

TEMPORARY TROUGHS WILL BE ADDED THROUGHOUT THE CORRIDOR TO CONTROL THE SPREAD FOR THE TWO-YEAR STORM DURING CONSTRUCTION. THE LOCATION AND SIZE OF THESE TROUGHS ARE SHOWN IN THE MOT PLANS. WHERE THE TROUGHS ARE PLACED WITHIN EXISTING/PROPOSED PAVEMENT LIMITS, THE PLAN SPECIFIED DEPTH WILL BE MILLED FROM THE TROUGH AREA SHOWN IN THE PLANS. IN LOCATIONS WHERE THE TROUGHS ARE TO BE PLACED WITHIN THE PROPOSED PAVEMENT LIMITS. THE INTERMEDIATE COURSE WILL NOT BE PLACED WITHIN THE TROUGH AREAS UNTIL THE MOT PHASES FOR WHICH THEY ARE REQUIRED ARE COMPLETED.

TEMPORARY TROUGHS LABELED ON THE MAINTENANCE OF TRAFFIC PLAN ARE ITEMIZED ON THE MOT PLANS AND CARRIED TO THE GENERAL SUMMARY.

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (DEPTH 1.5")

<u>111_</u> SY

<u>452</u> FT

1965 SY

1170 SY

ITEM 301 - STABILIZED CRUSHED AGGREGATE

ITEM 301 - STABILIZED CRUSHED AGGREGATE SHALL BE 2' WIDE AND 6" DEEP AND PLACED ADJACENT TO THE OUTSIDE OF ALL ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A PAVEMENT. EXCEPT WHEN THE PAVEMENT FOR MAINTAINING TRAFFIC HAS A TEMPORARY CURB. THE MAINTENANCE OF TRAFFIC SUB SUMMARIES QUANTITY ITEM 301 - STABILIZED CRUSHED AGGREGATE AND ACCURATELY DISPLAYS THE STATION RANGES WHERE THE ITEM IS REQUIRED.



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ITEM 615 - ROADS FOR MA	INTAING TRAF	<u>FIC</u>	
ROADS FOR MAINTAINING VARIOUS LOCATIONS AS S CONSTRUCTED ACCORDIN THE PLANS.	TRAFFIC WILL HOWN IN THE I NG TO C&MS 61	<i>BE REQUIRED AT PLANS, AND SHALL BE 5 AND AS DETAILED IN</i>	
FOLLOWING CONSTRUCTION MAINTAINING TRAFFIC, TEN REMOVED AS PER C&MS 6 SHALL BE RESTORED, UNL PLANS.	ON OF PAVEME MPORARY FAC 15.08, AND THE ESS OTHERWI	ENTS AND ROADS FOR ILITIES SHALL BE E EXISTING TOPOGRAPHY SE SPECIFIED IN THE	
PAYMENT FOR ALL LABOR, INCIDENTALS FOR ROADS TRAFFIC SHALL BE INCLUE PRICE FOR ITEM 615 - ROA SEPARATELY ITEMIZED IN	EQUIPMENT, I AND PAVEMEN DED IN THE LUN DS FOR MAINT THE PLANS.	MATERIALS AND OTHER TS FOR MAINTAINING MP SUM CONTRACT TAINING TRAFFIC UNLESS	
THE FOLLOWING QUANTIT MAINTENANCE OF TRAFFIC	TY HAS BEEN CA C GENERAL SU	ARRIED TO THE MMARY:	
ITEM 615 - ROADS FOR MA	INTAINING TRA	FFIC <u>LS</u>	
TEMPORARY DRAINAGE IT THE REQUIREMENTS OF IT THE FOLLOWING AS PER F PLAN "D" TEMPORARY DRA ITEMS LABELED ON THE MOT PLA MAINTENANCE OF TRAFFIC ITEM 611 - CATCH BASIN, N ITEM 611 - CATCH BASIN, N ITEM 611 - 12" CONDUIT, TY ITEM 611 - 12" CONDUIT, TY ITEM 611 - SLOTTED DRAIN AS PER PLAN TEMPORARY DRAINAGE RI THE TEMPORARY SLOTTED ALL ASSOCIATED PAVEMENT DRAIN OUTLETS AND ANY THE SURROUNDING AREA PAVEMENT REPAIR SHALL TEMPORARY SLOTTED DRAIN CONTRACTOR SHALL SAW THE EDGE OF THE TEMPOO SLOTTED DRAINS, AND RE PER C&MS 253.02. THIS TR WITH ASPHALT PAVEMENT PROPOSED ASPHALT PAVE THE ENGINEER. AFTER BA 202.02, THE CONTRACTOR CONCRETE PAVED SURFAC EXISTING OR PROPOSED A DIRECTED BY THE ENGINE BEEN PROVIDED AND CAR TRAFFIC GENERAL SUMMA TEMPORARY DRAINAGE IT ITEM 253 - PAVEMENT REPA ANY ADDITIONAL ITEMS OF WHICH ARE REQUIRED TO TEMPORARY PAVEMENT SUMMA TEMPORARY PAVEMENT SUMMA TEMPORARY DRAINAGE IT ITEM 253 - PAVEMENT REPA ANY ADDITIONAL ITEMS OF WHICH ARE REQUIRED TO TEMPORARY PAVEMENT SUMMA TEMPORARY PAVEMEN	TEMS TEM 611.04BCD PLAN, AS PER P AINAGE ITEMS. AINTENANCE (C ANS AND CARR C GENERAL SU IO. 3A, AS PER IO. 2-2B, AS PER PE C, AS PE C, AS PER PE C, AS PER PE C, AS PE C, AS PER PE C, AS PE C, AS PER PE C, AS PE C	SHALL BE WAVED FOR PLAN "C" AND AS PER TEMPORARY DRAINAGE OF TRAFFIC PLAN ARE PLAN "D" <u>11</u> EACH R PLAN "C" <u>7</u> EACH PLAN <u>3489</u> FT PLAN <u>416</u> FT D <u>1</u> EACH <u>5462</u> FT INCLUDE REMOVING PORARY CATCH BASINS, LAND PLUG SLOTTED CESSARY TO RESTORE VAL OR FINAL CONDITION. REMOVAL OF THE THE CROSSOVER AREAS EN INSTALLED. THE DGE ONE (1) FOOT FROM D RAINS, REMOVE THE SEXISTING PAVEMENT SHALL BE REPLACED E EXISTING OR SITION, AS DIRECTED BY THE CAVITY PER C&MS DE AN ASPHALT A BY MATCHING THE MENT COMPOSITION, AS DWING QUANTITY HAS ANNTENANCE OF RE AREAS WHERE REMOVED. <u>115</u> SY PECIFICALLY LISTED DR REMOVE ANY IDERED INCIDENTAL TO R ITEM 615 - ROADS FOR	MAINTENANCE OF TRAFFIC NOTES
		REVISIONS	
	NO. DATE	DESCRIPTION	DESIGN AGENCY
	<u>/3</u> 03/14/24	ADDED NOTES MODIFIED WINTER	
	<u>/3</u> 03/20/24	OVER PHASE NOTE	GPD GROUP*
	<u>/4</u> 03/27/24	ADDED 3RD WINTER OVER	Glaus, Pyle, Schomer, Burns & Dehaven, Inc. Copyright: Glaus, Pyle, Schomer, Burns & Dehaven, Inc. 2020
	<u>/4</u> 04/02/24	PHASE TO WINTER OVER NOTE	designer KRM
	<u>/4</u> 04/02/24	TO GENEARL SUMMARY MADE ALL TEMP. DRAINAGE ITEMS	REVIEWER AKF 11-21-23
	<u>/ + \</u> 04/02/24	"AS PER PLAN" AND ADDED TO TEMP. DRAINGE NOTE	PROJECT ID 107408
	4 04/02/24	MOVED SIGNAL/FLASHER NOTE	SHEET TOTAL 65 1068

TO SHEET 65A

65 1068



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FLEXIBLE START WINDOW CONTRACT (PN 129) (CONTINUED)

IF THE WORK IS NOT COMPLETED WITHIN THE CALENDAR DAYS IDENTIFIED IN THE CONTRACT CRITICAL WORK TABLE. IF THE DESIGNATE A DISINCENTIVE VALUE, THE CONTRACTOR WILL BE SUBJECT TO THE LIQUIDATED DAMAGES IN ACCORDANCE WITH

108.06 C SHALL BE MODIFIED TO THE FOLLOWING AND SHALL BE APPLICABLE ONLY TO THE CRITICAL WORK (AS DEFINED IN THE

108.06 C EXTENSION TO THE COMPLETION DATE FOR WEATHER OR SEASONAL CONDITIONS. A WEATHER DAY FOR CRITICAL WORK IS DEFINED AS A WORKDAY THAT WEATHER REDUCED PRODUCTION BY MORE THAN 50 PERCENT ON ITEMS OF WORK REQUESTED FOR AN EXTENSION OF TIME FOR A LOST WORKDAY DUE TO WEATHER WITH 2 DAYS OF OCCURRENCE. THE ENGINEER WILL EXTEND THE CALENDAR DAYS TO COMPLETE BY CALENDAR DAYS. THE ENGINEER WILL CONVERT WORKDAYS TO CALENDAR MULTIPLYING THE NUMBER OF LOST WORKDAYS BY 1.4 FOR A 5-DAY WORK WEEK OR LESS; 1.2 FOR A 6-DAY WORK WEEK; AND 1 FOR A 7-DAY WORK WEEK; AND EXTEND THE CALENDAR DAYS TO COMPLETE BY THE RESULTING NUMBER OF CALENDAR DAYS

WORK THAT OCCUR IN THE EXTENSION PERIOD. WHEN THE CONVERSION OF WORKDAYS TO CALENDAR DAYS RESULTS IN A DECIMAL OF 0.5 OR GREATER. THE ENGINEER WILL ROUND THE

TO THI SION R DELE	E NEXT HIGHEST V ESULTS IN A DECI TE THE DECIMAL F	WHOLE MAL LESS PORTION O	F				
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RT WI	NDOW TABLE						
IDAR	DISINCENTIVE \$	WORK V	VINDOW				
LETE	PER DAY	START	END				
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Z & 3)		2	3 (
0 DAYS HASE 5)	\$ 1,500	BEGIN PHASE 5	END (PHASE (5 (
5 DAYS IASE 2A)	\$ 8,000	BEGIN PHASE 2A	END PHASE 2A

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL/FLASHER INSTALLATIONS WITHIN THE PROJECT

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

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

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

MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION (CONTINUED)

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 $\leftarrow OUTAGE.$

\WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE CRASH 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 YFOR THE DAMAGE.

WHERE THE CONTRACTOR HAS FAILED TO, OR CANNOT RESPOND TO, AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION, AT THESE)LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE. THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO THE STATE OR THE CITY OF CLEVELAND FOR POLICE SERVICES AND MAINTENANCE SERVICES BY CITY FORCES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH ∠PROVISIONS OF SECTION 105.15.

\≺THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICE KENTIRELY WITH HIS FORCES OR HE MAY CHOOSE TO ENTER INTO A COOPERATIVE UNDERSTANDING WITH THE LOCAL MAINTAINING ✓AGENCY TO PROVIDE THE MAINTENANCE. THE CONTRACTOR SHALL INFORM THE ENGINEER. IN WRITING. OF THE MAINTENANCE METHOD SELECTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM. WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONSTRUCTION PROCEDURES, THIS OUTAGE SHALL NOT EXCEED 4 HOURS AND SHALL NOT INCLUDE THE HOURS OF 6-8 AM TO 4-6 PM. ANY SIGNALIZED INTERSECTION, WHERE THE SIGNAL IS OUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES. OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE, SHALL BE PROTECTED, BY THE CONTRACTOR, BY THE INSTALLATION OF TEMPORARY "STOP" SIGNS.

ANY VEHICULAR TRAFFIC SIGNAL HEAD, EITHER NEW OR EXISTING WHICH WILL BE OUT OF OPERATION SHALL BE COVERED IN THE MANNER DESCRIBED IN 632.25.

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

1. TIME OF NOTIFICATION OF MALFUNCTION;

2. TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION; 3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED;

- 4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND
- PROBABILITY OF REOCCURRENCE; 5. TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

• A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER · WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH - REPAIR.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM [<] 614. MAINTAINING TRAFFIC.

REVISIONS NO. DATE DESCRIPTION 1 01/15/24 CREATED SHEET, ADDED PN 121, ADDED PN 129, UPDATED DISINCENTIVE \$ AMOUNTS AND ADDED WORK WIDOWS BASED ON ODOT COMMENTS 3 03/15/24 MODIFIED CALENDAR DAYS TO COMPLETE RAMP WORK 4 04/02/24 MOVED SIGNAL FLASHER NOTE FROM SHEET 65 4 04/02/24 MODIFIED FLEXIBLE START WINDOW TABLE 4 04/02/24 MODIFIED INCENTIVE/DISNCENTIVE 65					
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Image: Addition of the state	3	03/15/24	MODIFIED CALENDAR DAYS TO COMPLETE RAMP WORK	DESIGNER	RM
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DESCRIPTION	SEE SHEET NO.	
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TYPE 1 (ONE-WAY) TYPE 2 (ONE-WAY) WAY		IANCE
MISC.: LANE REDUCTION ARROW MISC.: REMOVE RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	65 61	
MISC.: REMOVE RUMBLE STRIPS, SHOULDER (CONCRETE)	61	
LE MESSAGE SIGN; AS PER PLAN	168	
E, CLASS I, 6"		2
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E, CLASS I, 4" E, CLASS I, 6" E, CLASS I, 6", 807 PAINT IZING LINE, CLASS I, 12" IZING LINE, CLASS I, 12", 807 PAINT		
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Image: Image:<	SHEET NO.	REF. NO.	LOCATION	STA	TION	SIDE	WORK ZONE RAISED	WORK ZONE RAISED PAVEMENT MARKER, (YELLOW)	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN (WHITE)	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN (YELLOW)	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	WORK ZONE CENTER LINE, CLASS I	WORK ZONE EDGE LINE, CLASS I, 4"	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT (WHITE)	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT (YELLOW)	WORK ZONE CHANNELIZING	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT (WHITE)	WORK ZONE STOP LINE, CLASS I	WORK ZONE CROSSWALK LINE, CLASS I, 12"	WORK ZONE GORE MARKING, CLASS II	WORK ZONE ARROW, CLASS I			
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38 EV.149 BL.COMST. RAMP Sc 2001 10 100 <td>250</td> <td></td> <td></td> <td>2044174</td> <td>2050 - 50</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>E70</td> <td></td>	250			2044174	2050 - 50									E70										
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280 CH-130 NOT USED Image: Control of the second sec																								
281 CD5-3 BL EX. W, TT ST: 110+14 19+90 LT 19+10 LT 19+10 <td>259</td> <td>CH-130</td> <td>NOT USED</td> <td></td>	259	CH-130	NOT USED																					
30 EV-H11 CL NDT USED NOT USED	259	CDS-2	B/L EX. W. 7TH ST.	10+14 10+14	16+50							636		636									/	-
SP EV-158 NOT USED Image: Specific and Specific	259	EW-150	NOT USED	10+14	10+30									030								+	-	-
259 LA-1 NOT USED Image: constraint of the second se	259	EY-158	NOT USED																					
293 LH ICH Deck ICH Deck </td <td>259</td> <td>LA-1</td> <td>NOT USED</td> <td></td> <td>_</td> <td></td> <td>-</td>	259	LA-1	NOT USED																			_		-
280 EW-152 BUL CONST. RAMP W-S 529+00 533+10 RT 10 410 -	259	SL-1	NOT USED														_							-
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Zev E1-193 BL CONST, RAMP NS 322410 K1 10 510 10 261 EW-163 BL EX, RAMP N4V 24-88 39-43 RT 829 10	260	EW-152	B/L CONST. RAMP W-S	529+00	533+10	RT			10	40				410	240		_							
261 EW-153 BIL EX. BROADWAY AVE. 11+21 19+50 LT 6829 656 666	200	ET-159	B/L CONST. RAIMP W-S	529+00	532+10										310									-
262 CH-131 BL CNST. RAMP S-E 334-52 336-60 LT 5 146 41 262 CH-132 BL CONST. RAMP S-E 334-52 335-60 LT 588 441 41 262 CH-136 BL CONST. RAMP S-E 338-22 335-50 RT 588 441 41 262 EW-164 BL CONST. RAMP S-E 338-42 355-50 RT 588 44 <td>261</td> <td>EW-153</td> <td>B/L EX. BROADWAY AVE.</td> <td>11+21</td> <td>19+50</td> <td>LT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>829</td> <td></td>	261	EW-153	B/L EX. BROADWAY AVE.	11+21	19+50	LT							829											
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202 CV-26 BIL CONST. RAMP S.E. 334+52 335+00 LT 578 41 41 262 EW-154 DL CONST. RAMP S.E. 335+00 RT 598 350 41 598 262 EW-154 BL CONST. RAMP S.E. 335+00 RT 598 350 41 598 262 EW-154A BL CONST. RAMP S.E. 335+00 RT 598 350 41 598 262A EW-154A BL CONST. RAMP N.E. 437+50 447+00 RT 447+00 RT 262A EW-154B BL CONST. RAMP N.E. 334+00 347+00 RT 400 950 400 950 400 950 400 950 400 10	262 262	CH-131 CH-132	B/L EX. RAMP S-W B/L CONST. RAMP S-F	2+58 334+52	3+43 336+00											85 148					<u> </u>			\vdash
3 262 EW-164 BL CONST. RAMP S-E 333+60 RT RT RT State	262	CV-26	B/L CONST. RAMP S-E	334+52	336+00															41				
acc ETrio BIL CONST. RAMP N=E 330+00 L1 All	u 262	EW-154	B/L CONST. RAMP S-E	333+52	339+50	RT								598										<u> </u>
Zeza EW-154A B/L CONST. RAMP N-E 437+50 447+00 RT Addition of the second	4 262		B/L CONST. RAMP S-E	336+00	339+50										350			4						\vdash
262A EW-68B B/L CONST. RAMP 9-E 343+00 RT Image: Constraint of the second seco		EW-154A	Β/L CONST. RAMP N-E	437+50	<u>447+00</u>									950		<u>1 </u>		2			<u> </u>			╞
262A EY-160A B/L CONST. RAMP N-E 437+50 447+00 CL 950 CL 950 CL 0 </td <td>262A</td> <td>EW-154B</td> <td>B/L CONST. RAMP S-E</td> <td>343+00</td> <td>347+00</td> <td>RT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>400</td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	262A	EW-154B	B/L CONST. RAMP S-E	343+00	347+00	RT								400				2						
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SHEET NO.	REF. NO.	LOCATION	STA	STATION SIDE			STABILIZED CRUSHED AGGREGATE		ANCHOR ASSEMBLY, AGS TYPE E (MASH 2016)	ANCHOR ASSEMBLY, MGS TYPE T	GUARDRAIL, TYPE MGS		CURB, TYPE 4-C		INCREASED BARRIER DELINEATION	WORK ZONE IMPACT ATTENUATOR, 24" WIDE ZARDS, (UNIDIRECTIONAL)	BARRIER REFLECTOR, TYPE 1 (ONE-WAY)	BARRIER REFLECTOR, TYPE 2 (ONE-WAY)	OBJECT MARKER, ONE WAY		VEMENT FOR MAINTAINING TRAFFIC, CLASS A	SPHALT CONCRETE FOR MAINTAINING TRAFFIC	
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			FROM	то	-		СҮ		EACH	EACH	FT		FT		FT	EACH	EACH	EACH	EACH		SY	СҮ	
		PHASE 5																					
247	PB-133	B/L EX. RAMP W-S	31+60	33+30												4	4		4			 	
247	PD-134	C/L R/W & CONST. 1-490 C/L R/W & CONST 1-490	931+60	935+50													0 0		o Q				
248	PB-135	C/L R/W & CONST. I-490	935+50	948+00	RT												25		25				
248		C/L R/W & CONST. I-490	935+50	948+00	RT												25		25				
			0.40.00	000-50	DT.																		
249	PB-136	C/L R/W & CONST. 1-490	948+00	960+50													25		25				
249	PB-137	C/L R/W & CONST. I-490	955+70	960+50												1	20		20				
249		C/L R/W & CONST. I-490	960+45		CL											1							
249		C/L R/W & CONST. I-490	948+00	955+70	RT												16		16				
250	PB-139	C/L R/W & CONST. I-490	960+50	961+00													2		2				
250	PB-140		960+50	961+00													1						
250	PB-141	C/L R/W & CONST. 1-490	961+00	973+00	RT											1	24		24				
250		C/L R/W & CONST. I-490	960+50	973+00	RT											· ·	25		25				
			070-00	005-50																			
251	PB-143		9/3+00	985+50													25		25				
231			975+00	905+50													25		25				
252	PB-144	C/L R/W & CONST. I-490	985+50	987+00	RT												3		3				
252	PB-144A	C/L R/W & CONST. I-490	986+90	993+50	RT												15		15				
252	PB-144B	C/L R/W & CONST. I-490	994+70	998+00	RT											1	8		8				
252		C/L R/W & CONST. I-490	985+50	998+00	RT												25		25				
253	PB-145	C/I_R/W & CONST, I-490	998+00	1010+50	RT												25		25				
253		C/L R/W & CONST. I-490	998+00	1010+50	RT												25		25				
254	PB-146	C/L R/W & CONST. I-490	1010+50	1022+00	RT												23		23				
254		C/L R/W & CONST. I-490	1010+50	1022+00	RT												23		23				
255	PR-147	B/L CONST RAMP W-S	522+00	529+00	 IT												14		14				
255	PB-148	B/L CONST. RAMP W-S	522+70	525+30													6		6				
255	PB-149	B/L CONST. RAMP W-S	527+50	528+80	LT											1	3		3				
255	PB-150	C/L R/W & CONST. I-490	1023+70	1033+00	RT											1	20		20				
255	PB-151	B/L CONST. RAMP W-N	627+70	632+00	RT												9		9		0.50		
255		B/L CONST. RAMP W-S B/L CONST. RAMP W-S	522+58	527+28			18														852		
255		C/L R/W & CONST. I-490	1022+00	1033+00	RT												22		22		204		
255		B/L CONST. RAMP W-N	628+20	632+00	LT												5	3	8				
				630+50																			
	PB-152	I-490 / OPPOR. CORRIDOR	1033+00	111+50	RT												29		29			I	
200 256	рв-153 Г	C/L R/W & CONST 1-490	339+50 1033+00	347+00 1045+00													15 24		15 24			ł	
≥ 256		C/L R/W & CONST. I-490	340+80	345+00	RT	1											6	4	10	1		ł	
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257	PB-154	OPPORTUNITY CORRIDOR	111+50	115+20	RT												8		8				
US/L0 258	DR-155		2046+40	2050+50	 1T												0		<u>م</u>				
	PD-133		2040+40	2030+30													5		9				
eu ag 259	PB-156	B/L EX. W. 7TH ST.	10+14	15+14	LT											2	11		11				
Engir																							
260	PB-157	B/L CONST. RAMP W-S	529+00	532+10	RT		40									1	7		7		20	 	
200			529+00	532+20			12														52	 	
201 261	PB-158	B/L EX. BROADWAY AVE.	15+50	19+00	RT	1										1	8		8	1		ł	
02106																							
262	PB-159	B/L EX. RAMP S-W	3+40	4+60	RT												4		4				
262	PB-160~	B/L-CONST. RAMPS-E	335+20	339+50			$\uparrow \uparrow \uparrow \uparrow$	m	\sim	\sim		\sim			\sim		10	\sim					m
		B/L CUNST. RAMP N-E	43/+/0	44/+00		huu	h	hun	·····	·····	h	m	h	hu	h					hi	h	m	tuu
	TOTALS CARRIED TO MAINTENANCE OF TRAFFIC SUBSUMMARY - TOTALS 2							-	_		_		_	1		$\overline{\mathbf{C}}$			CARP			_	
	IUIALS CAR	KIED TO MAINTENANCE OF TRA			51								4		632)	7	$\left(\begin{array}{c} 639 \\ \end{array}\right)$	4	1148				

615	614		622	622	622	622				
PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC		PORTABLE BARRIER, 50", AS PER PLAN	DUAL PORTABLE BARRIER TRANSITION/TERMINATION	PORTABLE BARRIER, UNANCHORED, AS PER PLAN	PORTABLE BARRIER, ANCHORED, AS PER PLAN				
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				SHEET		TOTAL			EACH	EACH	EACH	EACH	FT	FT	FT	FT	FT	 FT	FT	FT	FT	FT	EA
		PHASE 1	TOTALS CARRIED FROM SHEET	67	OF	1068			54	34	433	149	2121			8407	10686	9200	720			103	
		PHASE 1	TOTALS CARRIED FROM SHEET	<u>68</u> 70		1068			182	118	99 148	71 93	1568 7874			2854	19190 13706	<u>3448</u> 6077	363			50	
		PHASE 2	TOTALS CARRIED FROM SHEET	71	OF	1068			204	21			10282			10540	11476	2380	2292			105	
		PHASE 2	TOTALS CARRIED FROM SHEET	72	OF	1068			144	71	200	155	2487			11125	11429	2986	4004			152	
	P	PHASE 2 & 2A PHASE 3	TOTALS CARRIED FROM SHEET	73		1068			101 290	55 113	65	70 32	148 7830			4790	4636	<u>1381</u> 3061	1001			35	
	P	PHASE 3 & 3A	TOTALS CARRIED FROM SHEET	77	OF	1068			159	101	32	26	810	285	885	7943	7902	1986				164	
		PHASE 4	TOTALS CARRIED FROM SHEET	79	OF	1068			129	70	88	18	7459			10163	10936	3608	2839		400	302	<u> </u>
		PHASE 4 PHASE 4	TOTALS CARRIED FROM SHEET	80		1068			93	81	1		9419 868			11/52	11829 13087	<u>3412</u> 2648	2582	38	130	435	
		PHASE 4	TOTALS CARRIED FROM SHEET	82	OF	1068					45	45			4	4040	5039	150		4			
		PHASE 5	TOTALS CARRIED FROM SHEET	84	OF	1068			168	77	237	97	7282			9987	10545	3937				154	
		PHASE 5	TOTALS CARRIED FROM SHEET	85 86	OF	1068			272	106	131	20 56	1774	030	829 (8/40 7467	1232 1232 1232	5562		3		277	
		PHASE 5A	TOTALS CARRIED FROM SHEET	87	OF	1068					80	46	519			2856	3266	878		31	188	150	1(
		PHASE 6	TOTALS CARRIED FROM SHEET	90	OF	1068			62		205	56	10295			6338	7284	4669	3002			272	
		PHASE 6	TOTALS CARRIED FROM SHEET	91	OF	1068			02		3		332			7590	9343 10403	2026	4305			84	
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ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)	ANCHOR ASSEMBLY, MGS TYPE T	GUARDRAIL, TYPE MGS	CURB, TYPE 4-C	INCREASED BARRIER DELINEATION	WORK ZONE IMPACT ATTENUATOR, 24" WIDE IAZARDS, (UNIDIRECTIONAL)	BARRIER REFLECTOR, TYPE 1 (ONE-WAY)	BARRIER REFLECTOR, TYPE 2 (ONE-WAY)	OBJECT MARKER, ONE WAY		
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291		C/L R/W & CONST. I-490	934+00	934+20	LT		($\langle \rangle$	20	2 / 4			(ł	2/4			
291	1	C/L R/W & CONST. I-490	934+20	934+86	LT		$- \wedge$		66) (K			(}				
291	2	C/L R/W & CONST. I-490	934	+86	LT		4	X		<u> </u>		<u> </u>			(}	<u>}</u>		 	
291	3	C/L R/W & CONST. I-490	934+86	934+96	LT				10	3 (R			(2		 	
291	6	C/L R/W & CONST. I-490	934+32	935+25	RT		(<u>)</u> 93 (K			(}	<u> </u>			
291	7	C/L R/W & CONST. I-490	935	+25	RT		(X		$\langle \rangle$		В	1		(}	<u>}</u>		 	
291		C/L R/W & CONST. I-490	932+25	932+40	RT		(<u>)</u> (15	<u> </u>			($\langle \cdot \cdot \rangle$		 	
291	8	C/L R/W & CONST. I-490	932+40	933+25	RT		(×	85)	40	К			(<u>}</u>			
291	^		933+25	933+35			(ا ل	70	K >	10	Ď			(ł –	2		 	
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291	ĨŬ	C/L R/W & CUNST. 1-490	904710 022105	934+83 021±05		11 2	(ا لا	10	\prec]	Ŕ – – – –			(ŧ l	2		 	
231		U/L N/W & UUNDI. 1-430	333703	JJ470J		11.2	(2ζ		K			(}	\langle			<u> </u>
292		C/L R/W & CONST 1-490	936+00	936+10	II		(<u>}</u>		$\prec \qquad \qquad$	10	<u> К</u>			((<u>}</u>	5			<u> </u>
292	1	C/L R/W & CONST. 1-490	936+10	937+00			(90	\prec		Ŕ			(ţ	2			<u> </u>
292		C/L R/W & CONST. I-490	937+00	937+10			($\frac{1}{2}$	10	К			(}	3		 	
292	2	C/L R/W & CONST. I-490	937+10	938+00	LT				90	5 8		Ď			($\boldsymbol{\Sigma}$			
292		C/L R/W & CONST. I-490	938+00	938+10	LT		($\hat{\lambda}$	10	R			(-	$\overline{\langle}$			
292	3	C/L R/W & CONST. I-490	938+10	939+00	LT			X	90	$\langle \rangle$		К			(ł	3			
292		C/L R/W & CONST. I-490	939+00	939+10	LT					$\frac{1}{2}$	10	<u> </u>			(ł	2			
292	4	C/L R/W & CONST. I-490	939+10	939+80	LT		(×	70	2	-	K			(2	{			
292	5	C/L R/W & CONST. I-490	940	+14	LT		(X		<u> </u>		<u> </u>			(}	<u>)</u>			
292	6	C/L R/W & CONST. I-490	939+80	939+91			(10) (R			(<──		 	
292	0		935+50	937+33			(×	20	$\langle \rangle$	183	<u> К</u>			(<u>}</u>	<u>}</u>		 	
292	9	C/L R/W & CONST. 1-490	937+33	937+53	RT		(X	20	3 2	241	Ŕ			(}	2			
292	12	C/L R/W & CONST. 1-490	940+14	940+34	RT		(X	20	$2 \leq \epsilon$	<u> </u>	K			(}			 	
292		C/L R/W & CONST. I-490	936+95	938+00	LT	11.7	(5 8	105	Ď			($\mathbf{\dot{z}}$			
292		C/L R/W & CONST. I-490	936+85	938+00	RT	12.8	(8		χ ζ		R			(-	$\overline{\langle}$			
292		C/L R/W & CONST. I-490	939+39	939+74	LT	3.9	(X		2 8		К			(}	3			
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293		C/L R/W & CONST. I-490	940+50	940+60	LT		(X		Κ Έ	10	Ķ			(}	<u></u>		 	
293	1	C/L R/W & CONST. I-490	940+60	941+00			(40	j (R			(<			
293	2		941+00	941+10				×	20	$\langle \rangle$	10	К			(<u>}</u>		 	
293	3	C/L R/W & CONST. 1-490	941+10	+30			(X	20	5 6	1	Ř 1			(2		 	
293	4	C/L R/W & CONST. I-490	941+30	941+38			(8	8	$2 \leq 2$		K .			(}	$\frac{1}{2}$		 	<u> </u>
293	7	C/L R/W & CONST. I-490	942+06	942+15			(9	5 >	1	Ŕ	1			t	2		 	
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293	10	C/L R/W & CONST. I-490	942+86	943+06	LT		(20	K k	1	К			((ł	3			
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293		C/L R/W & CONST. I-490	940+65	940+80	RT					λ	15	К			(}	$\langle $			
293	11	C/L R/W & CONST. I-490	940+80	941+00	RT		(ل	20	K 2	1	Ř			(<u>}</u>	<u></u>			
ubp 293	12	C/L R/W & CONST. I-490	941	+00		 				<u> </u>	1	<u>)</u> 1			(ţ	2		 	
ଅନ୍ତୁ 293	13	C/L R/W & CONST. I-490	941+00	941+08	RT				7	<u></u>		К			(<u>}</u>	3		 	
ž 293	15	C/L R/W & CONST. I-490	941+08	941+20	RT			l t	13	K >		Ď			(<u>}</u>	2			
293	·	C/L R/W & CONST. I-490	941+20	941+75	RT		(þ Ç	55	R				[2		 	
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-	297	Q		904+07	904+02					<u> </u>	50		- ID	<u> </u>				_	$\langle \cdots \rangle$			
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ŀ	297		C/L R/W & CONST 1-490	963+83	965+98	RT		23.9		<u>}</u>				R				t	\mathbb{R}			
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	298	1	C/L R/W & CONST. I-490	965+46	965+95	LT				7	50		· · · ·	₿				7	5			
ł	298	•	C/L R/W & CONST. I-490	965+95	966+10								× 15	R				t	$\hat{\mathbf{x}}$			
	298	2	C/L R/W & CONST, I-490	966+10	966+59	LT	0			×	50	5	· · ·	K				F	K			
	298		C/L R/W & CONST. I-490	966+59	966+74	LT				7			15				-	7	5			
	298	3	C/L R/W & CONST. I-490	966+74	967+23	LT				7	50			R				t	2 I			
	298		C/L R/W & CONST. I-490	967+23	967+38	LT				Ç			+ 15 ·	K				ļ.	K			
	298	4	C/L R/W & CONST. I-490	967+38	967+92	LT				7	55			Į –				-	3			
	298		C/L R/W & CONST. I-490	968+41	969+11	LT				7			70.	\mathbf{k}				t	2			
	298	6	C/L R/W & CONST. I-490	969+11	969+51					(]	40		<u>}</u>	₿				<u>}</u>	KI	ſ		-
	298		C/L R/W & CONST. I-490	969+70	969+80	LT			ļ		1		<u>} 10</u>	₽				}	Ķ I	I		J
	298	8	C/L R/W & CONST. I-490	969+80	970+00	<u> </u>				2	20		ļ	<u>k</u>				ţ				J
	298	10	C/L R/W & CONST. I-490	970+00	970+20					Ç	20		· ·	₭				}	K I	I		
	298		C/L R/W & CONST. I-490	970+20	970+30					<u>}</u>	1	}	<u>† 10</u>	₽				}	Ķ I	I		J
	298		C/L R/W & CONST. I-490	967+57	967+97	RT		4.5		<u>}</u>	{	<u> </u>	ļ <u> </u>	K				ţ	\geq	I		
	298		C/L R/W & CONST. I-490	969+19	969+49			3.4		ļ	1)	<u>}</u>	₿				}	K I			
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Shee	300	2	C/I R/W & CONST 1-400	976+05	976+50	1 17				¢ –	Δ5		· · · ·	ť				}	K l		 	
010	300	۲		976+50	978+77							}	207 ·	\mathbb{R}				<u>t</u>	₿ l		 	
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eerir	300		C/I R/W & CONST I-490	979+33	985+05	<u>і </u>				5			572	<u> </u>				-	$\langle \cdot \cdot \cdot \rangle$			
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					REV	ISIONS			REV AKF	KIVI IEWER 11-21-23
	NO.	D. 04/0	ATE 02/24	RE DR	MOVED A RAIN WITH	DESCRI ND REPLA I SLOTTED	PTION ACED TREN DRAIN AN	ICH ND	PROJECT I 10 SHEET	D 7408 TOTAL
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							254	}	r	· · 611	611	611	611	611	611			<u>}</u>		
SHEET NO.	REF. NO.	LOCATION	STA	TION	SIDE	PAVEMENT PLANING,	ASPHALT CONCRETE (12" W x 1.5" D x VARIES L)			12" CONDUIT TYPE B, AS PER PLAN	12" CONDUIT TYPE C, AS PER PLAN	SLOTTED DRAIN, TYPE 1, 12", AS PER PLAN	CATCH BASIN, NO. 3A, AS PER PLAN "D"	CATCH BASIN, NO. 2-2B, AS PER PLAN "C"	TCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN					
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302		B/L EX. RAMP S-E	14+37	14+52	RT			\land	\frown	\sim			\land				\frown	λ		
302	1	B/L EX. RAMP S-E	14+52	15+17	RT			4	ζ	65	5	}	<u>}</u> / 4 \			4	,	<u> </u>		
302		B/L EX. RAMP S-E	15+17	15+32	RT				<u>}</u>		$\langle $	15					۲	5		
302	2	B/L EX. RAMP S-E	15+32	15+97	RT				ζ	65	\$	<u>}</u>	Κ					$\langle \dots \rangle$		
302	2	B/L EX. RAMP S-E	15+97	16+12					<u> </u>	<u> </u>	}	<u> </u>	Ķ				}	5		
302	<u>э</u>	D/L EX. RAMP S-E	16+77	16+92						00	}	15	K					2		
300	4	C/L R/W & CONST. 1-490	16+92	17+73	RT				<u>}</u>	80	\sum		6				٢	}		
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303	1	B/L CONST. RAMP N-W	122	2+75	LT				×		\sum	}	5	1			}	3		
303	2	B/L CONST. RAMP N-W	122+75	123+10	LT				>		34 (Į į	R					2		
303	3	B/L CONST. RAMP N-W	123	3+10	LT						<u>}</u>	}	<u>{</u> 1				_	ζ		
303	4	B/L CONST. RAMP N-W	123+10	123+17					<u>≻</u>	6	}(<u>}</u>	<u>}</u>				}	<u>}</u>		
303	6	B/L CONST. RAMP N-W	123+17	123+30					> >	13	}	188	Κ				ţ	$\langle \cdots \rangle$		
303	7	B/L CONST. RAMP N-W	123130	<u> </u>	RT				۲		$\overline{\langle}$	400 [Ř.	1			}	3		
303	8	B/L CONST. RAMP N-W	123+00	123+06	RT				y y) 8	<u>ا</u>	K	· ·			r -	$\overline{\boldsymbol{X}}$		
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308	2	OPPORTUNITY CORRIDOR	111+77	112+00	RT				× ×		<u>} 30 (</u>	}	Κ			(F	ζ		_
308	3	OPPORTUNITY CORRIDOR	111	1+77 	RT				Y		$\left\{ \right\}$	<u>}</u>	¥	1			}	3		
310	1	B/L CONST RAMP N-W	128	 8+50	 IT				r r		}(<u> </u>	1		($\left\{ \right.$		
310	2	B/L CONST. RAMP N-W	128+44	128+50					•		√ 6 (}	<u>K</u>				}	}		
											$\frac{1}{2}$	X	K					2		
312	1	B/L EX. RAMP W-S	6+	+24	RT				•			X	5	1			}	3		
312	2	B/L EX. RAMP W-S	6+24	8+17	RT				-		<mark>} 190</mark> (Å	<u> </u>				<u> </u>	2		
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313	2	B/L EX. RAMP W-S	8+1/	<u> 8+/4</u> ⊧7∕				}) 55		R	1			<u>}</u>	2		
313	5	B/L EX. RAMP W-S	4-	+19	RT				•		\sum	8	5		1		1 }	$\overline{\boldsymbol{\beta}}$		
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287		C/L R/W & CONST. I-490	955+73	957+50	RT						$\sum_{i=1}^{n}$	177	Κ			(x	\langle		
287		C/L R/W & CONST. I-490	957+50	957+75	RT			{	•	25	$\langle \ \langle \ \rangle$	<u>}</u>	Ž				*	<u> </u>		
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288		C/L R/W & CONST. 1-490 C/L R/W & CONST 1-490	957+85	960+45						87	$\langle - \rangle$	260	<u>X</u>				*	<u>}</u>		
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289		OPPORTUNITY CORRIDOR	106+61	110+00	LT/RT			X		340	$\langle \rangle$		Ź				×	3		
289		OPPORTUNITY CORRIDOR	110+00	113+50	RT						<u>} </u>	350	Κ				*	ζ		
			440-50	447-40					-		$\langle \langle \rangle$		Ž				*	<u>}</u>		
290			113+50	11/+13	RI			X				/ <u>363</u>	ξ				*	<───		
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	NO.	DATE	DEMOVE		RIPTION		Ā
	<u>/4</u> (04/02/24	DRAIN W MADE AI	/ITH SLOTTI LL ITEMS "A	ED DRAIN A S PER PLA	AND N″	Σ
					-		DESIGN AGENCY
							GPD GROUP* Glaus, Pyle, Schomer, Burns & Dehaven, Inc. Copyright: Glaus, Pyle, Schomer, Burns & Dehaven, Inc. 2020
							DESIGNER KRN1
							REVIEWER AKF 11-21-23
 							PROJECT ID 107408
							SHEET TOTAL 99 1068



	1	TEMPORARY 66' - 12" CONDUIT TYPE B, AS PER PLAN @ 3.03%	8	TEMPORARY 85' - 12" CONDUIT
	2	TEMPORARY CB-3A STA. 934+86, 48' LT (& R/W & CONST. I-490)	9	$(_{\text{TEMPORARY 70' - 12'' CONDUIT}} / 4 \\ (_{\text{TYPEB} AS PER PLAN} / 2)$
	3	TEMPORARY 12' CONDUIT TYPE B, AS PER PLAN @ 7.20% 4	(10)	TEMPORARY 70%-12"CONDUIT TYPE BY AS PER PLAN @ 3.56%
	4	EXISTING INLET (DR-58) (TO BE PLATED IN PRE-PHASE 1)	(11)	PROPOSED INLET (D-1)
	5	EXISTING MANHOLE (EX-1) (TO BE TEMPORARILY RECONSTRUCTED TO GRADE)		(CONSTRUCT IN PHASE 1) STA. 934+85, (& R/W & CONST. I-490)
	6	TEMPORARY:98 12"CONDUIT TYPE C, AS PER PLAN @ 0.50% 4		
	7	TEMPORARY CB-2-28 STA. 935+25, 67' RT. (@ R/W & CONST. I-490)		
		931		
				TEMPORARY DRA CONSTRUCTED IN P
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USER: kmo dgn				
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108_MM00 10\2021\20		TEMPORARY DRAINAGE FLOW	M	AINTENANCE OF TRAFFIC DRAINAGE NOTE:
DEL: 1074 Clients\OR		> EXISTING/PROPOSED DRAINAGE FLOW	<u></u> 1.	PROPOSED DRAINAGE TO BE CONSTRUCTED IN PHASE 1
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PART

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'-490-0.00 PART 1
107408_MP104D-2 PAPERSIZE: 34x22 (in.) DATE: 4/2/2024 TIME: 1:14

PART

2.	LEGEND, SEE SHEET <u>291</u> .

USER: ΡM 05:29 /2024 490-0.00 PART

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4

TEMPORARY 50' 12" CONDUIT TYPE B, AS PER PLAN @ 5.77%

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USER: : 3:22:33 PM :08_MM117 c TIME: 4/2/2024 DATE:

	HORIZONTAL SCALE IN FEET 0 20 10 40
TEMPORARY DRAINAGE CONSTRUCTED IN PRE-PHASE 1	MAINTENANCE OF TRAFFIC - TEMPORARY DRAINAGE - PRE-PHASE 1 RAMP S-E (I-71 NB) - BEGIN TO STA. 18+00
REVISIONS DESCRIPTION	DESIGN AGENCY
2/24 REPLACE SLOTTED DRAIN WITH SLOTTED DRAIN AND MADE ALL TEMP. DRAINAGE ITEMS "AS PER PLAN"	GPD GROUP* Glaus, Pyle, Schomer, Burns & Dehaven, Inc. Copyright: Glaus, Pyle, Schomer, Burns & Dehaven, Inc. 2020
MAINTENANCE OF TRAFFIC DRAINAGE NOTES:	designer KRM

1. PROPOSED DRAINAGE TO BE CONSTRUCTED IN PHASE 1.

REVIEWER

AKF 11-21-23

107408

 SHEET
 TOTAL

 302
 1068

PROJECT ID

2. FOR MAINTENANCE OF TRAFFIC DRAINAGE LEGEND, SEE SHEET <u>291</u>.

		REVISIONS
NO.	DATE	DESCRIPTION
	04/02/24	REPLACE SLOTTED DRAIN WITH SLOTTED DRAIN AND MADE ALL TEMP. DRAINAGE ITEMS "AS PER PLAN"

		REVISIONS
NO.	DATE	DESCRIPTION
4	04/02/24	REPLACE SLOTTED DRAIN WITH SLOTTED DRAIN AND MADE ALL TEMP. DRAINAGE ITEMS "AS PER PLAN"

N

E - PRE-PHASE 0+00 TEMPORARY DRAINAGE STA. 125+00 TO STA. 130 STA. - TRAFFIC -W (I-77) - 1 MAINTENANCE OF RAMP N

MAINTENANCE OF TRAFFIC DRAINAGE NOTES:

- 1. PROPOSED DRAINAGE TO BE CONSTRUCTED PRIOR TO PHASE 2 AND PRE-PHASE 2.
- 2. FOR MAINTENANCE OF TRAFFIC DRAINAGE

		REVISIONS
NO.	DATE	DESCRIPTION
	04/02/24	MADE ALL TEMP. DRAINAGE ITEMS "AS PER PLAN"

4:37:55 PM USER: 7408 MM402 den LIME: 2024 4/2/ 22

		REVISIONS
NO.	DATE	DESCRIPTION
	04/02/24	MADE ALL TEMP. DRAINAGE ITEMS "AS PER PLAN"

						S	SHEET NUN	Л.						PART.		ITEM	GRAND		
	OFFICE CALCS		59		457		459							01/IMS/04		EXT	TOTAL	UNIT	
			LS											LS	201	11000	LS		CLEARING AND GRUBBING
					146,031									146,031	202	23000	146,031	SY ST	
					1,225									1,225	202	30000	1,225	SF	
					9									9 8 796	202	30000	9 796		
					140									140	202	30800	140	SY	
					110										202		110		
					17,483									17,483	202	32000	17,483	FT	CURB REMOVED
					7,908									7,908	202	35100	7,908	FT	PIPE REMOVED, 24" AND UNDER
					257									257	202	35200	257	FT	PIPE REMOVED, OVER 24"
					13,152									13,152	202	38000	13,152	FT	GUARDRAIL REMOVED
					2									2	202	47800	2	EACH	IMPACT ATTENUATOR REMOVED
					12									12	202	E 8000	12	БАСЦ	
					13									13	202	58000	13		
					61									61	202	58200	61	EACH FACH	
					01		163							163	SPECIAL	20270110	163	FT	PIPE CLEANOUT, 24" AND UNDER
							798							798	SPECIAL	20270120	798	FT	PIPE CLEANOUT, 27" TO 48"
					10,034									10,034	202	75000	10,034	FT	FENCE REMOVED
			70,616											70,616	203	10000	70,616	CY	EXCAVATION
			2,931		750									2,931	203	20000	2,931	CY	
					/50									/50	203	35120	/50	СҮ	GRANULAR MATERIAL, TYPE C
		F	2 111	\geq	205								$ \land \langle \rangle$	2 216	R 204	10000	2 216		
			2,111	$\left\{ \begin{array}{c} \\ \end{array} \right\}$	205									1 056) 204	21000	1 056		
		ک	80	$\frac{1}{2}$										80	R 204	45000	80	K HOUR	PROOF ROLLING
		5	1,056	$\left\{ \begin{array}{c} 4 \end{array} \right\}$									}	1,056) 204	13000	1,056) сү	EXCAVATION OF SUBGRADE
	4,356	K X	ىىنىر										ξ	4,356	R 206	10500	4,356	R TON	CEMENT
	(144,043	\downarrow \land												144,043	5 206	11000	144,043	SY SY	CURING COAT
	2 144,043	$\left\{ 4 \right\}$											6	. 144,043	206	15020 (, 144,043	R /sy	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP
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	145													145	209	15001	145	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN
					12,078									12,078	606	15050	12,078	FT	GUARDRAIL, TYPE MGS
					125									125	606	15150	125	FT	GUARDRAIL, TYPE MGS HALF POST SPACING
					2									2	606	26050	2	EACH	ANCHOR ASSEMBLY, MGS TYPE B
					23									23	606	26150	23	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)
					16									16	606	26550	16	EACH	ANCHOR ASSEMBLY, MGS TYPE T
															<u> </u>	25000		54.011	
					26									26	606	35002	26		MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1
					1										606	60050	1		IMPACT ATTENHATOR TYPE 3 (BIDIRECTIONAL) (72" W
					–										000	00050		LACIT	
: pfry					11,119									11,119	607	23000	11,119	FT	FENCE, TYPE CLT
JSER					11,119									11,119	607	70000	11,119	FT	FENCELINE SEEDING AND MULCHING
Me	up																		
):10 H	001.d				1,152			 						1,152	608		1,152	SF CF	4" CONCRETE WALK
:: 5:11	00				687									687	608	52000	687	SF	
TIME	720													720	622	10100	720	Г Т	CONCRETE BARRIER SINGLE SLODE TVDE P1
. 224	s/107				640									640	622	10100	640	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE DI
4/4/2	Sheet				31									31	622	10120	31	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C. AS PER PL
TE:	v) \$ 4,930													4,930	622	10140	4,930	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C1
DA	30 30													30	622	10141	30	FT	CONCRETE BARRIER, SINGLE SLOPE, TYPE C1, AS PER P
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REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

AS-1-15	REVISED	01-20-23
AS-2-15	REVISED	01-20-23
BR-1-13	REVISED	01-17-14
EXJ-4-87	REVISED	01-20-23
GSD-1-19	DATED	01-15-21
PCB-91	REVISED	07-17-20
RB-1-55	DATED	07-19-13
VPF-1-90	REVISED	01-20-23

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

300	DATED	04-21-23
344	DATED	04-20-18
348	DATED	01-15-21

DESIGN SPECIFICATIONS:

THE EXISTING STRUCTURE WAS DESIGNED IN CONFORMANCE WITH THE "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, DATED 1969, INCLUDING THE 1970 INTERIM SPECIFICATIONS AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN LOADING:

HS20-44 CASE I AND THE ALTERNATE MILITARY LOADING FUTURE WEARING SURFACE (FWS) OF 0.030 KIPS PER SQUARE FOOT

DESIGN DATA:

CONCRETE CLASS QC2 - COMPRESSIVE STRENGTH 4500 PSI (SUPERSTRUCTURE) CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4000 PSI (SUBSTRUCTURE)

CONCRETE REINFORCEMENT - ASTM A615 OR A996, GRADE 60, MINIMUM YIELD STRENGTH 60,000 PSI

STRUCTURAL STEEL - ASTM A572 GRADE 50, YIELD STRENGTH 50 KSI (EXISTING) STRUCTURAL STEEL - ASTM A709 GRADE 50, YIELD STRENGTH 50 KSI (PROPOSED)

MONOLITHIC WEARING SURFACE:

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 INCH THICK.

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK. BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER. THE OWNER WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

EXISTING STRUCTURE PLANS:

PLANS MAY BE EXAMINED BY PROSPECTIVE BIDDERS AT THE OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 12, 5500 TRANSPORTATION BLVD., GARFIELD HEIGHTS, OH 44125-5396, TEL 216-581-2100. EXISTING PLANS MAY ALSO BE DOWNLOADED AT THE FOLLOWING LINK: ftp://ftp.dot.state.oh.us/pub/Contracts/Attach

USCG ENVIRONMENTAL COMMITMENTS:

- 1. SCAFFOLDING UNDER THE BRIDGE IS AUTHORIZED BUT MUST NOT EXTEND MORE THAN 4-FEET BELOW LOW STEEL.
- 2. LIGHTING OF THE BOTTOM AND FOUR-CORNERS OF THE SCAFFOLDING WITH STEADY BURNING YELLOW LIGHTS IS REQUIRED SO THAT APPROACHING VESSELS ARE WARNED OF THE TEMPORARY REDUCTION IN CLEARANCE.
- 3. SNOOPER VEHICLES OR OTHER MANLIFTS ARE AUTHORIZED AND WILL REQUIRE SPOTTERS TO WARN WORKERS OF APPROACHING VESSELS AND TO MOVE MANLIFTS TO ALLOW VESSELS TO PASS IS REQUIRED.
- 4. USE OF BARGES OR FALSEWORK MUST BE AUTHORIZED BY THE USCG WITH A MINIMUM OF 30 DAYS ADVANCED NOTICE OF DEPLOYMENT.

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ITEM 202 - PORTIONS OF STRUCTURE REMOVED. OVER 20 FOOT SPAN. AS PER PLAN:

DESCRIPTION: WORK TO BE PAID FOR UNDER THIS ITEM SHALL INCLUDE THE REMOVAL OF EXISTING STRUCTURE COMPONENTS AS DETAILED IN THE PLANS AND AS DIRECTED BY THE ENGINEER. THE REMOVALS SHALL INCLUDE BUT NOT NECESSARILY BE LIMITED TO THE FOLLOWING:

- 1. PORTIONS OF EXISTING BRIDGE DECK SLAB AND CONCRETE PARAPETS AS SHOWN IN THE PLANS, INCLUDING SAW CUTTING.
- 2. PORTIONS OF EXISTING ABUTMENT BACKWALLS AND WINGWALLS AS SHOWN IN THE PLANS, INCLUDING SAW CUTTING.
- 3. EXISTING STEEL END CROSSFRAMES, STEEL END DAMS, AND SLIDING PLATE OR STRIP SEAL EXPANSION JOINTS AT ALL ABUTMENTS AND JOINT 6 AS SHOWN IN THE PLANS.
- 4. EXISTING NEOPRENE DRAINAGE TROUGHS AND STEEL ANGLES BELOW JOINTS 1 THRU 6. INCLUDING ALL DIRT AND DEBRIS CONTAINED WITHIN.
- 5. EXISTING STEEL PIPE COLLECTORS AND DOWNSPOUTS AS SHOWN IN THE PLANS, INCLUDING ALL DIRT AND DEBRIS CONTAINED WITHIN.
- 6. EXISTING PIER ACCESS LADDERS AND MANHOLES IN BRIDGE DECK AS SHOWN IN THE PLANS.
- 7. EXISTING ITEMS NOTED TO BE REMOVED FOR REPAIRS TO EXISTING FINGER JOINTS, EXISTING INSPECTION SAFETY CABLE SYSTEM, AND EXISTING SCUPPER GRATES AS SHOWN IN THE PLANS.
- 8. MISCELLANEOUS ITEMS THAT ARE NOT SHOWN TO BE INCORPORATED INTO THE FINAL CONSTRUCTION AND ARE DIRECTED TO BE REMOVED BY THE ENGINEER.

THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING DECK REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE OF EQUIPMENT IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO C&MS 501.05.

PROTECTION OF STEEL SUPPORT SYSTEMS: BEFORE DECK SLAB CUTTING IS PERMITTED, DRAW THE OUTLINE OF PRIMARY STEEL MEMBERS IN CONTACT WITH THE BOTTOM OF THE DECK ON THE SURFACE OF DECK. DRILL SMALL DIAMETER PILOT HOLES 2 INCHES OUTSIDE THESE LINES TO CONFIRM THE LOCATION OF FLANGE EDGES. DECK CUTS OVER OR WITHIN 2 INCHES OF FLANGE EDGES SHALL NOT EXTEND LOWER THAN THE BOTTOM LAYER OF DECK SLAB REINFORCING STEEL. CUTS MADE OUTSIDE 2 INCHES OF FLANGE EDGES MAY EXTEND THE FULL DEPTH OF THE DECK. PERFORM WORK CAREFULLY DURING CUTTING OF THE DECK SLAB TO AVOID DAMAGING STEEL MEMBERS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE. REPLACE OR REPAIR STEEL MEMBERS DAMAGED BY THE DECK SLAB CUTTING OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK. SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE ENGINEER. OBTAIN THE ENGINEER'S APPROVAL BEFORE PERFORMING REPAIR.

PROTECTION OF RAILWAY TRACK: A TEMPORARY SHIELD SHALL BE PROVIDED OVER THE RAILWAY TRACK AREA DURING DEMOLITION. SEE SECTION "D" OF CSX TRANSPORTATION COORDINATION NOTE ON SHEET 8A OF 120 FOR DETAILS. ammunummun REMOVAL METHODS: THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER STRUCTURAL MEMBERS (STEEL GIRDER. STEEL STRINGER, ETC.), THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS BUT NOT TO EXCEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. REMOVAL METHODS OVER STRUCTURAL MEMBERS SHALL ENSURE ADEQUATE DEPTH CONTROL AND PREVENT NICKING OR GOUGING THE PRIMARY STRUCTURAL MEMBERS. DUE TO THE POSSIBLE PRESENCE OF ATTACHMENTS (E.G., FINISHING MACHINE, SCUPPER AND FORM SUPPORTS, ETC.) TO EXISTING STRUCTURAL MEMBERS, PERFORM WORK CAREFULLY DURING DECK REMOVAL TO AVOID DAMAGING STRUCTURAL MEMBERS THAT ARE TO REMAIN. REPLACE OR REPAIR STRUCTURAL MEMBERS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE ENGINEER. OBTAIN THE ENGINEER'S APPROVAL BEFORE PERFORMING REPAIR.

(CON'T):

CUT LINE CONSTRUCTION JOINT PREPARATION: SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT. DUST. RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

SUBSTRUCTURE CONCRETE REMOVAL: REMOVE CONCRETE BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18-INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURE.

MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

ITEM 509 - CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING REINFORCEMENT, AS PER PLAN:

REPLACE ALL EXISTING REINFORCING STEEL BARS DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL MEASURE THE REPLACEMENT REINFORCING STEEL BY THE NUMBER OF POUNDS ACCEPTED IN PLACE. REPLACE ALL EXISTING REINFORCING STEEL BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND ARE DEEMED BY THE ENGINEER TO BE MADE UNUSABLE BY CONCRETE REMOVAL OPERATIONS WITH NEW EPOXY COATED REINFORCING STEEL OF THE SAME SIZE AT NO COST TO THE DEPARTMENT.

ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE):

APPLY AN EPOXY-URETHANE SEALER TO THE EXPOSED CONCRETE SURFACES OF THE FOLLOWING BRIDGE ELEMENTS:

- OF REPAIR AREA PERIMETER).

COMPLETE ALL CRACK REPAIR AND CONCRETE PATCHING ON A GIVEN STRUCTURE ELEMENT BEFORE SEALING. THE COLOR OF THE FINISH COAT FOR ALL SURFACES SHALL BE FEDERAL COLOR NUMBER 595B-27778 (LIGHT NEUTRAL, SEMIGLOSS).

ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN

1. ABUTMENTS: ALL FACES OF BACKWALLS, BRIDGE SEAT, BREASTWALLS, WINGWALLS, AND PARAPETS (REMOVE EXISTING SEALER).

2. PIERS 4L, 4R, 9L, 9R, 12L, 12R, 15L, 15R, 20L AND 20R: ALL FACES OF CAPS AND COLUMNS. INCLUDING TOP OF CAP (DO NOT REMOVE EXISTING SEALER).

3. PIERS 7L. 7R AND 8R: ALL FACES OF COLUMNS. GROUND LINE TO THE BOTTOM OF CAP (DO NOT REMOVE EXISTING SEALER).

4. PIERS 13L, 13R, 14L AND 14R: ALL FACES OF CAPS AND COLUMNS, EXCLUDING TOP OF CAP (NO EXISTING SEALER).

5. PIERS 6L, 6R, 10L, 10R, AND CAPS OF PIERS 7L AND 7R: AREAS OF CONCRETE PATCHING REPAIR ONLY (OVERLAP EXISTING SEALER SIX INCHES ON ALL SIDES

6. SUPERSTRUCTURE: PARAPETS AND DECK EDGES, SEE SHEETS 11/120 AND 12/120 FOR LIMITS (REMOVE EXISTING SEALER).

7. APPROACH SLABS: PARAPETS (NEW WORK, NO EXISTING SEALER).

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$\overline{4}$ 03/	/29/2024

ITEM 518 - STRUCTURE DRAINAGE. MISC.: SCUPPER GRATE REPLACEMENT (CONTINUED):

MATERIALS: STRUCTURAL STEEL FOR SCUPPER GRATES SHALL BE ASTM A709 GRADE 36 OR 50, GALVANIZED IN ACCORDANCE WITH C&MS 711.02. FURNISH MATERIALS IN CONFORMANCE WITH C&MS 513 AND C&MS 518.

MEASUREMENT AND PAYMENT: THE DEPARTMENT WILL MEASURE THIS WORK BY THE NUMBER OF EACH ACCEPTED IN PLACE. THE BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE SCUPPER GRATE REPLACEMENT. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT UNIT PRICE BID FOR ITEM 518 - STRUCTURE DRAINAGE, MISC.: SCUPPER GRATE REPLACEMENT.

ITEM 518 - STRUCTURE DRAINAGE, MISC.: BRIDGE DRAINAGE SYSTEM CLEANING:

DESCRIPTION: THIS WORK CONSISTS OF REMOVING SEDIMENT AND DEBRIS FROM THE BRIDGE DECK. THE BRIDGE SEATS AT ALL SUBSTRUCTURES. AND ALL PORTIONS OF THE EXISTING BRIDGE DRAINAGE SYSTEM TO BE REUSED. INCLUDING THE INLETS. CATCH BASINS. AND PIPES OF THE UNDERGROUND STORM SEWER SYSTEM AS SHOWN IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER C&MS 105.16 AND 105.17. ALL DOWNSPOUTS AND SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

EXECUTION: AFTER THE SEDIMENT AND DEBRIS ARE REMOVED. THE EXISTING BRIDGE DRAINAGE SYSTEM SHALL BE FLUSHED WITH CLEAN WATER MAKING CERTAIN THE WATER FLOWS SMOOTHLY. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT PRIOR TO BEGINNING WORK FOR THE PURPOSE OF EXAMINING THE PORTIONS OF THE EXISTING BRIDGE DRAINAGE SYSTEM TO REMAIN AFTER CLEANING TO VERIFY THE CONDITION OF ALL DOWNSPOUTS AND SEWERS. THE CONTRACTOR'S SUPERINTENDENT SHALL ACCOMPANY THE ENGINEER IN MAKING THE DETAILED EXAMINATION OF THE DRAINAGE SYSTEM.

MEASUREMENT AND PAYMENT: THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE BRIDGE DRAINAGE SYSTEM CLEANING. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT UNIT PRICE BID FOR ITEM 518 - STRUCTURE DRAINAGE, MISC.: BRIDGE DRAINAGE SYSTEM CLEANING.

ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=137), AS PER PLAN:

THIS ITEM CONSISTS OF CONSTRUCTING REINFORCED CONCRETE APPROACH SLABS WITH INTEGRAL CURBS AND/OR MEDIAN BARRIER IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS. STANDARD DRAWINGS AS-1-15 AND AS-2-15. AND CMS 526.

MEASUREMENT AND PAYMENT: THE DEPARTMENT WILL MEASURE THIS WORK BY THE NUMBER OF SQUARE YARDS ACCEPTED IN PLACE. THE BID PRICE SHALL INCLUDE ALL CONCRETE FOR THE APPROACH SLABS, INTEGRAL CURBS AND/OR MEDIAN BARRIER, JUNCTION BOX, CONDUIT, EPOXY COATED REINFORCING STEEL, PREFORMED EXPANSION JOINT FILLER, JOINT SEALER, AND ALL OTHER INCIDENTAL MATERIALS, LABOR AND EQUIPMENT REQUIRED TO COMPLETE THE WORK. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT UNIT PRICE BID FOR ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=13"), AS PER PLAN.

ITEM 625 - SPECIAL - MAINTAIN EXISTING LIGHTING

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DESCRIPTION: THIS ITEM CONSISTS OF RESTORING THE LIGHTING THAT IS DISTURBED IN THE COURSE OF WORK.

MEASUREMENT AND PAYMENT: THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE BID PRICE SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE RESTORATION OF DISTURBED LIGHTING. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT UNIT PRICE BID FOR ITEM 625 - SPECIAL - MAINTAIN EXISTING LIGHTING.

ITEM 844 - CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN:

THIS WORK CONSISTS OF PATCHING EXISTING REINFORCED CONCRETE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 844, MODIFIED AS FOLLOWS:

WHERE THE AREA OF AN INDIVIDUAL REPAIR, AS DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION, TOTALS LESS THAN FIVE (5) SQUARE FEET, THE INSTALLATION OF GALVANIC ANODES IS NOT REQUIRED, AND THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH C&MS 519.

ANODE SPACING SHALL BE 30" FOR REPAIRS ON EXISTING ABUTMENTS. 28" FOR REPAIRS ON EXISTING PIERS. AND 24" FOR REPAIRS ON EXISTING SUPERSTRUCTURE PARAPETS.

ASBESTOS NOTIFICATION:

A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST SURVEYED THE BRIDGE STRUCTURE SCHEDULED FOR DEMOLTION AND/OR REHABILITATION THE SURVEY DETERMINED THAT NO ASBESTOS IS PRESENT ON THE BRIDGE STRUCTURE.

ODOT SHALL PROVIDE A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORM, PARTIALLY COMPLETED AND SIGNED BY THE BRIDGE OWNER, TO THE SUCCESSFUL BIDDER. THE CONTRACTOR SHALL COMPLETE THE FORM AND SUBMIT IT TO ONE OF THE ADDRESSES BELOW AT /4\ LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR RENOVATION.

ASBESTOS PROGRAM	OR	ASBESTOS PROGRAM
OHIO EPA, DAPC		OHIO EPA, DAPC
P.O. BOX 1049		50 W. TOWN ST., SUITE 700
COLUMBUS, OH 43216-1049		COLUMBUS, OH 43215

THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED FORM TO THE ENGINEER AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR RENOVATION. THE FORM SHALL INCLUDE: 1) THE CONTRACTORS NAME AND ADDRESS, 2) THE SCHEDULED DATES FOR THE START AND COMPLETION OF THE BRIDGE REMOVAL AND 3) A DESCRIPTION OF THE PLANNED DEMOLITION WORK AND THE METHOD(S) TO BE USED. COPIES OF THE OEPA FORM AND BRIDGE INSPECTION REPORT ARE AVAILABLE FOR REVIEW AT THE ODOT DISTRICT 12 OFFICE, 5500 TRANSPORTATION BOULEVARD, GARFIELD HEIGHTS, OHIO 44125.

BASIS FOR PAYMENT: THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIAL NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

SUMMARY OF PROPOSED REHABILITATION WORK:

THE FOLLOWING LIST CONTAINS THE MAJOR ITEMS OF WORK INCLUDED IN THESE PLANS FOR THE REHABILITATION OF THIS STRUCTURE:

- 1. REPLACEMENT OF THE EXISTING APPROACH SLABS.
- 2. REPLACEMENT OF PARAPET TRANSITIONS TO ACCEPT MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 OR TYPE 2, AND REPLACEMENT OF APPROACH GUARDRAIL.
- 3. REPLACEMENT OF THE EXISTING STRIP SEAL OR SLIDING PLATE EXPANSION JOINTS AT THE WEST ABUTMENT, EAST ABUTMENT, ABUTMENT B-C, AND ABUTMENT C-B, AND INTERMEDIATE JOINT 6 ON RAMP C-B WITH NEW STRIP SEAL EXPANSION JOINTS, INCLUDING REPLACEMENT OF THE EXISTING END CROSSFRAMES AND RECONSTRUCTION OF THE TOPS OF THE ABUTMENT BACKWALLS AND PORTIONS OF THE EXISTING DECK SLAB AND PARAPETS AT ALL LOCATIONS.
- 4. REPAIR OF THE EXISTING INTERMEDIATE FINGER EXPANSION JOINTS, JOINTS 1 THRU 5. INCLUDING REPLACEMENT OF MISSING/DAMAGED FINGERS AT JOINTS 2 AND 3.
- 5. REPLACEMENT OF THE EXISTING NEOPRENE DRAINAGE TROUGHS BELOW JOINTS 1 THRU 5 WITH NEW GALVANIZED STEEL DRAINAGE TROUGHS. INCLUDING THE INSTALLATION OF A NEW COLLECTOR PIPE SYSTEM SEPARATE FROM THAT OF THE DECK SCUPPERS, AND REMOVAL OF THE EXISTING NEOPRENE DRAINAGE TROUGH BELOW JOINT 6.
- 6. CLEANOUT OF THE EXISTING DECK SCUPPERS, REPLACEMENT OF ONE EXISTING DECK SCUPPER GRATE. REPLACEMENT OF THE EXISTING DOWNSPOUT PIPE SYSTEM. AND CLEANING OF EXISTING STORM SEWERS.
- 7. MISCELLANEOUS REPAIRS TO THE SUPERSTRUCTURE STEEL, INCLUDING REPLACEMENT OF LOOSE AND MISSING BOLTS, REPAIR OF THE EXISTING INSPECTION SAFETY CABLE SYSTEM, SHIMMING OF THE FLOATING BEARINGS OF THREE (3) BEAMS AT THE WEST ABUTMENT. AND REMOVAL OF EXISTING PIER ACCESS MANHOLES AND LADDERS.
- 8. PAINTING OF THE BEAM/GIRDER ENDS AT THE ABUTMENTS AND INTERMEDIATE EXPANSION JOINTS.
- 9. REPLACEMENT OF THE EXISTING BRIDGE DECK OVERLAY, INCLUDING FULL-DEPTH DECK SLAB REPAIRS.
- 10. SUBSTRUCTURE CONCRETE PATCHING AND CRACK REPAIR.
- 11. SUPERSTRUCTURE AND SUBSTRUCTURE CONCRETE SEALING.
- 12. REPLACEMENT OF THE EXISTING CONCRETE SLOPE PROTECTION AT THE SOUTH COLUMN OF PIER 14R.

SUGGESTED CONSTRUCTION PROCEDURE:

PHASE 1 CONSTRUCTION:

- WESTBOUND SIDE. SLAB SEGMENTS. mmmmmmmm PHASE 2 CONSTRUCTION: OF € I-490. PHASE 3 CONSTRUCTION:

PRE-PHASE WORK, USING INSIDE SHOULDER CLOSURE:

1. PERFORM CLEAN-OUT OF ALL SCUPPERS ALONG THE MEDIAN PARAPETS.

2. CLEAN ALL DEBRIS FROM INSIDE SHOULDERS IN BOTH DIRECTIONS.

IMPLEMENT PHASE 1 MAINTENANCE OF TRAFFIC. MAINTAIN THREE LANES OF I-490

TRAFFIC IN EACH DIRECTION ON THE EXISTING OUTER PORTIONS OF THE EASTBOUND AND WESTBOUND DIRECTIONS ON THE DECK AND APPROACH SLABS.

2. PERFORM WORK AT THE WEST ABUTMENT AND EAST ABUTMENT:

A. REMOVE EXISTING MEDIAN BARRIER ON EXISTING ABUTMENT APPROACH SLABS AND ON ABUTMENT BACKWALLS.

B. REMOVE EXISTING APPROACH SLAB AND SLEEPER SLAB TO LIMITS OF PROPOSED MEDIAN BARRIER ON APPROACH SLAB AND REMOVE TOPS OF EXISTING ABUTMENT BACKWALL TO LIMITS OF PROPOSED MEDIAN BARRIER ON ABUTMENT BACKWALL. ADDITIONAL APPROACH SLAB AND TOPS OF ABUTMENT BACKWALL MAY BE REMOVED TO WITHIN 10'-0" OF CENTERLINE I-490 ON THE

C. CONSTRUCT PROPOSED ABUTMENT BACKWALL UNDER PROPOSED ABUTMENT MEDIAN BARRIER, SLEEPER SLAB AND APPROACH SLAB UNDER PROPOSED APPROACH SLAB MEDIAN TRANSITION BARRIER.

D. CONSTRUCT MEDIAN BARRIERS ATOP NEW ABUTMENT BACKWALL AND APPROACH

1. IMPLEMENT PHASE 2 MAINTENANCE OF TRAFFIC. SHIFT TRAFFIC AND MAINTAIN THREE LANES OF I-490 TRAFFIC IN EACH DIRECTION ON THE EXISTING EASTBOUND BRIDGE DECK AND APPROACH SLABS AND THE OUTER PORTION OF THE EXISTING WESTBOUND BRIDGE DECK AND APPROACH SLABS.

2. SAW CUT THE EXISTING BRIDGE DECK OVERLAY AND THE EXISTING EAST AND WEST ABUTMENT APPROACH SLABS AND TOP OF BACKWALL AT OFFSET OF 36'-7" LEFT

✓4 Y 3. PERFORM WORK AT THE WEST ABUTMENT AND EAST ABUTMENT:

A. REMOVE REMAINING INNER PORTIONS OF EXISTING APPROACH SLABS.

B. REMOVE REMAINING INNER PORTIONS OF EXISTING TOPS OF BACKWALL, EXPANSION JOINTS. AND ENDS OF BRIDGE DECK.

C. REMOVE AND REPLACE EXISTING END CROSSFRAMES WITHIN THE SAME LIMITS. RESET BEARINGS OF BEAMS M AND N AFTER EXISTING CROSSFRAME REMOVAL AND BEFORE PROPOSED CROSSFRAME INSTALLATION.

D. INSTALL INNER PORTION OF PROPOSED STRIP SEAL EXPANSION JOINTS.

E. CONSTRUCT INNER PORTIONS OF PROPOSED ENDS OF DECK. TOPS OF BACKWALL, AND APPROACH SLABS. BUILD TO LONG-ITUDINAL CONSTRUCTION JOINT AT OFFSET OF 35'-7" LEFT OF € I-490.

4. PERFORM REPAIRS TO INNER PORTIONS OF EXISTING MAINLINE BRIDGE DECK. FINGER JOINTS, AND MEDIAN PARAPETS.

1. IMPLEMENT PHASE 3 MAINTENANCE OF TRAFFIC. SHIFT TRAFFIC AND MAINTAIN THREE LANES OF I-490 TRAFFIC IN EACH DIRECTION ON THE EXISTING EASTBOUND BRIDGE DECK AND APPROACH SLABS AND THE INNER PORTION OF THE EXISTING WESTBOUND BRIDGE DECK AND APPROACH SLABS.

2. REFER TO PART 1 PLANS FOR CLOSURE DURATION AT RAMP C-7 TO W. 7TH ST. TO PERFORM WORK AT THE EXIT RAMP PORTION OF THE WEST ABUTMENT:

A. REMOVE OUTER PORTION OF EXISTING APPROACH SLAB AND EXISTING PARAPET ON ABUTMENT WINGWALL.

B. REMOVE OUTER PORTIONS OF EXISTING TOP OF BACKWALL, EXPANSION JOINT. AND END OF BRIDGE DECK.

AL NOTES - 3 DESIGNED DRAWN REVIEWED DRAWN REVIEWED	-490-0100 CHECKED REVISED STRUCTURE FILE	HOGA RIVER JAM/CJS 181199
490-01.00 STRUCTURE GENER	BRIDGE NO. CUY	0.107408 I-490 OVER CUYA

PHASE 3 CONSTRUCTION (CONTINUED):

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- C. REMOVE AND REPLACE EXISTING END CROSSFRAMES WITHIN THE SAME LIMITS. RESET BEARING OF BEAM D AFTER EXISTING CROSSFRAME REMOVAL AND BEFORE PROPOSED CROSSFRAME INSTALLATION.
- D. INSTALL OUTER PORTION OF PROPOSED STRIP SEAL EXPANSION JOINT.
- E. CONSTRUCT OUTER PORTION OF PROPOSED END OF DECK, TOP OF BACKWALL, AND APPROACH SLAB. BUILD TO LONGITUDINAL CONSTRUCTION JOINT AT EDGE OF GORE AREA.
- 3. REFER TO PART 1 PLANS FOR CLOSURE DURATION AT RAMP B-C FROM ROCKEFELLER AVENUE TO PERFORM WORK AT ABUTMENT B-C:
 - A. REMOVE EXISTING APPROACH SLAB AND EXISTING NORTH PARAPET ON ABUTMENT WINGWALL.
- B. REMOVE EXISTING TOP OF BACKWALL, EXPANSION JOINT, AND END OF BRIDGE DECK.
- C. REMOVE AND REPLACE ALL EXISTING END CROSSFRAMES.
- D. INSTALL PROPOSED STRIP SEAL EXPANSION JOINT.
- E. CONSTRUCT PROPOSED END OF DECK, TOP OF BACKWALL, APPROACH SLAB, AND NORTH PARAPET ON ABUTMENT WINGWALL.
- 4. PERFORM REPAIRS TO OUTER PORTIONS EXISTING MAINLINE BRIDGE DECK, FINGER JOINTS, AND EXTERIOR PARAPETS AS REQUIRED TO RE-OPEN THE ENTRANCE AND EXIT RAMPS TO TRAFFIC.
- 5. PERFORM WORK AT THE REMAINING PORTION OF THE WEST ABUTMENT AND AT THE EAST ABUTMENT:
 - A. REMOVE OUTER PORTIONS OF EXISTING APPROACH SLABS AND EXISTING PARAPETS ON ABUTMENT WINGWALLS.
 - B. REMOVE OUTER PORTIONS OF EXISTING TOPS OF BACKWALL, EXPANSION JOINTS. AND ENDS OF BRIDGE DECK.
 - C. REMOVE AND REPLACE EXISTING END CROSSFRAMES WITHIN THE SAME LIMITS.
 - D. INSTALL OUTER PORTIONS OF PROPOSED STRIP SEAL EXPANSION JOINT.
 - E. CONSTRUCT OUTER PORTIONS OF PROPOSED ENDS OF DECK, TOPS OF BACKWALL, APPROACH SLABS, AND PARAPETS ON ABUTMENT WINGWALLS. BUILD TO LONGITUDINAL CONSTRUCTION JOINT AT OFFSET OF 35'-7" *LEFT OF € I-490.*
- 6. PERFORM REPAIRS TO REMAINING OUTER PORTIONS OF EXISTING EASTBOUND BRIDGE DECK, FINGER JOINTS, AND EXTERIOR PARAPETS.
- 7. PERFORM CLEAN-OUT OF ALL SCUPPERS ALONG THE EXTERIOR PARAPET.

PHASE 4 CONSTRUCTION:

- 1. IMPLEMENT PHASE 4 MAINTENANCE OF TRAFFIC. SHIFT TRAFFIC AND MAINTAIN THREE LANES OF I-490 TRAFFIC IN EACH DIRECTION ON THE EXISTING WESTBOUND BRIDGE DECK AND APPROACH SLABS AND THE OUTER PORTION OF THE EXISTING EASTBOUND BRIDGE DECK AND APPROACH SLABS.
- 2. SAW CUT THE EXISTING BRIDGE DECK OVERLAY AND THE EXISTING EAST AND WEST ABUTMENT APPROACH SLABS AND TOP OF BACKWALL AT OFFSET OF 37'-7" RIGHT *OF € I-490*.

- 3. PERFORM WORK AT THE WEST ABUTMENT AND EAST ABUTMENT:
 - A. REMOVE REMAINING INNER PORTIONS OF EXISTING APPROACH SLABS.
 - B. REMOVE REMAINING INNER PORTIONS OF EXISTING TOPS OF BACKWALL, EXPANSION JOINTS, AND ENDS OF BRIDGE DECK.
- C. REMOVE AND REPLACE EXISTING END CROSSFRAMES WITHIN THE SAME LIMITS.
- D. INSTALL INNER PORTIONS OF PROPOSED STRIP SEAL EXPANSION JOINTS.
- E. CONSTRUCT INNER PORTIONS OF PROPOSED ENDS OF DECK, TOPS OF BACKWALL, AND APPROACH SLABS. BUILD TO LONG-ITUDINAL CONSTRUCTION JOINT AT OFFSET OF 36'-7" RIGHT OF € I-490.

PHASE 4 CONSTRUCTION (CONTINUED):

4. PERFORM REPAIRS TO INNER PORTIONS OF EXISTING MAINLINE BRIDGE DECK. FINGER JOINTS, AND MEDIAN PARAPETS.

PHASE 5 CONSTRUCTION:

- 1. IMPLEMENT PHASE 5 MAINTENANCE OF TRAFFIC. SHIFT TRAFFIC AND MAINTAIN THREE LANES OF I-490 TRAFFIC IN EACH DIRECTION ON THE EXISTING WESTBOUND BRIDGE DECK AND APPROACH SLABS AND THE INNER PORTION OF THE EXISTING EASTBOUND BRIDGE DECK AND APPROACH SLABS.
- 2. REFER TO PART 1 PLANS FOR CLOSURE DURATION AT RAMP C-B TO BROADWAY AVENUE TO PERFORM WORK AT ABUTMENT C-B AND JOINT 6:

A.REMOVE EXISTING APPROACH SLAB AND EXISTING PARAPETS ON ABUTMENT WINGWALLS.

- B. REMOVE EXISTING TOP OF BACKWALL, EXPANSION JOINTS, AND ENDS OF BRIDGE DECK.
- C. REMOVE AND REPLACE ALL EXISTING END CROSSFRAMES.
- D. INSTALL PROPOSED STRIP SEAL EXPANSION JOINTS.
- E. CONSTRUCT PROPOSED ENDS OF DECK. TOP OF BACKWALL. APPROACH SLAB. AND PARAPETS ON ABUTMENT WINGWALLS.
- 3. PERFORM REPAIRS TO RAMP C-B BRIDGE DECK AND EXTERIOR PARAPETS AS REQUIRED TO RE-OPEN THE EXIT RAMP TO TRAFFIC.
- 4. PERFORM WORK AT THE WEST ABUTMENT AND AT THE EAST ABUTMENT:
 - A. REMOVE OUTER PORTIONS OF EXISTING APPROACH SLABS AND EXISTING PARAPETS ON ABUTMENT WINGWALLS.
 - B. REMOVE OUTER PORTIONS OF EXISTING TOPS OF BACKWALL, EXPANSION JOINTS, AND ENDS OF BRIDGE DECK.
 - C. REMOVE AND REPLACE EXISTING END CROSSERAMES WITHIN THE SAME LIMITS.
 - D. INSTALL OUTER PORTIONS OF PROPOSED STRIP SEAL EXPANSION JOINT.
 - E. CONSTRUCT OUTER PORTIONS OF PROPOSED ENDS OF DECK, TOPS OF BACKWALL, APPROACH SLABS, AND PARAPETS ON ABUTMENT WINGWALLS. BUILD TO LONGITUDINAL CONSTRUCTION JOINT AT OFFSET OF 36'-7" RIGHT OF € I-490.
- 5. PERFORM REPAIRS TO OUTER PORTIONS OF EXISTING EASTBOUND BRIDGE DECK. FINGER JOINTS, AND EXTERIOR PARAPETS.
- 6. PERFORM CLEAN-OUT OF ALL SCUPPERS ALONG THE EXTERIOR PARAPET.

WORK BELOW THE BRIDGE DECK:

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WORK BELOW THE BRIDGE DECK IS NOT RESTRICTED TO A SPECIFIC CONSTRUCTION PHASE BUT MAY BE SUBJECT TO COMPLETION OF OTHER WORK AT A GIVEN LOCATION. THIS WORK INCLUDES:

- 1. MODIFY THE BRIDGE DRAINAGE SYSTEM (AFTER SCUPPER CLEANING IS COMPLETE):
 - A. REMOVE EXISTING NEOPRENE DRAINAGE TROUGHS, STEEL ANGLES, AND STEEL COLLECTOR PIPES BELOW JOINTS 1 THRU 5 ON I-490 MAINLINE AND JOINT 6 ON RAMP C-B. INSTALL RETROFIT CLEANOUTS WHERE EXISTING COLLECTOR PIPE WAS CONNECTED TO EXISTING SCUPPER PIPE.
 - B. REMOVE EXISTING STEEL DOWNSPOUT PIPES FROM PIERS.
 - C. PERFORM CLEANOUT OF EXISTING SCUPPER PIPES, INLETS, CATCH BASINS, AND STORM SEWERS TO REMAIN.
 - D. INSTALL PROPOSED GALVANIZED STEEL DOWNSPOUT PIPES ON PIER.
 - E. INSTALL PROPOSED GALVANIZED STEEL DRAINAGE TROUGHS BELOW JOINTS 1 THRU 5 ON I-490 MAINLINE.
 - F. INSTALL PROPOSED GALVANIZED STEEL COLLECTOR PIPES.
- 2. REPLACE LOOSE AND MISSING BOLTS IN SUPERSTRUCTURE FRAMING.

PHASE 5 CONSTRUCTION (CONTINUED):

- CRACK REPAIR IS COMPLETE).

THE ABOVE IS A SUGGESTED CONSTRUCTION PROCEDURE. THE CONTRACTOR SHALL SUBMIT HIS OR HER PROPOSED CONSTRUCTION PROCEDURE AND SCHEDULE TO THE ENGINEER FOR APPROVAL BEFORE BEGINNING CONSTRUCTION. NO CONSTRUCTION OPERATIONS WILL BE PERMITTED WITHOUT PRIOR APPROVAL.

CSX TRANSPORTATION COORDINATION NOTES:

REFER TO THE CSX TRANSPORTATION PUBLIC PROJECT INFORMATION MANUAL FOR ADDITIONAL REQUIREMENTS NEEDED FOR WORKING ON/ABOVE/ADJACENT TO CSXT. SPECIFIC SECTIONS THAT PERTAIN TO THIS PROJECT ARE SPECIAL PROVISIONS FOR CONSTRUCTION NEAR CSXT PROPERTY, OVERHEAD BRIDGE CRITERIA, CONSTRUCTION SUBMISSION CRITERIA, AND INSURANCE REQUIREMENTS FOR PUBLIC PROJECTS.

CONTRACTOR ACCESS WILL BE LIMITED TO THE IMMEDIATE PROJECT AREA ONLY. THE CSXT RIGHT-OF-WAY OUTSIDE THE PROJECT AREA MAY NOT BE USED FOR CONTRACTOR ACCESS TO THE PROJECT SITE AND NO TEMPORARY AT-GRADE CROSSINGS WILL BE ALLOWED.

THE CONTRACTOR WILL BE REQUIRED TO ABIDE BY THE PROVISIONS OF THE AGENCY/CSXT CONSTRUCTION AGREEMENT.PERIODICALLY, THROUGHOUT THE PROJECT DURATION, THE CONTRACTOR MAY BE REQUIRED TO MEET, DISCUSS AND, IF NECESSARY, TAKE IMMEDIATE ACTION AT THE DISCRETION OF CSXT PERSONNEL AND/OR THEIR AUTHORIZED REPRESENTATIVE, TO COMPLY WITH PROVISIONS OF THAT AGREEMENT AND THESE SPECIFICATIONS.

IT IS THE RESPONSIBILITY OF THE INDIVIDUAL OWNERS OF WIRELINES, PIPELINES, UTILITIES, ETC TO COORDINATE DIRECTLY WITH CSXT REAL ESTATE AND FACILITIES MANAGEMENT (REFM) GROUP. THIS INCLUDES ALL NEW INSTALLATIONS AND THE ADJUSTMENT, MODIFICATION, REMOVAL OR RETIREMENT IN PLACE OF ALL EXISTING FACILITIES.

THE CONTRACTOR MAY NOT USE CSXT RIGHT-OF-WAY FOR STORAGE OF MATERIALS OF EQUIPMENT DURING CONSTRUCTION WITHOUT PRIOR CSXT APPROVAL. THE CSXT RIGHT-OF-WAY MUST ALWAYS REMAIN CLEAR FOR RAILROAD USE. EQUIPMENT MAY NOT BE POSITIONED TO BLOCK THE RAILROAD ACCESS ROAD, TRACK AREA OR ANY PART OF THE CSXT RIGHT-OF-WAY WITHOUT PRIOR CSXT APPROVAL. ALL MOVEMENTS OF EQUIPMENT WITHIN RAILROAD RIGHT-OF-WAY MUST BE COORDINATED WITH THE RAILROAD FLAGGER.

THE ROADWAY AUTHORITY, OR DESIGNATED CONTRACTOR, SHALL COORDINATE WITH THE RAILROAD WHENEVER THE CONTRACTOR'S WORK ACTIVITIES ARE LOCATED OVER. UNDER OR WITHIN THE RAILROAD'S RIGHT-OF-WAY.

ANY DAMAGE CAUSED BY THE PROJECT WORK TO THE TRACK OR RAILROAD PROPERTY WILL REQUIRE REPAIR IMMEDIATELY UPON NOTIFICATION FROM THE RAILROAD OR THEIR DESIGNATED REPRESENTATIVE. IF THE DAMAGE AFFECTS THE TRACK. TRACK STRUCTURE, RAILROAD FACILITIES, OR TRAIN OPERATIONS AS DETERMINED BY THE RAILROAD. THE REPAIRS WILL BE PERFORMED BY THE RAILROAD AT THE CONTRACTOR'S EXPENSE INCLUDING ALL ASSOCIATED COSTS OF DELAYS TO THE RAILROAD.

DURING TRAIN MOVEMENTS THROUGH THE PROJECT LOCATION, VEHICLES, EQUIPMENT, AND PERSONNEL WILL NOT BE ALLOWED TO OPERATE WITHIN TWENTY-FIVE (25) FEET OF THE TRACK.

CSXT SHALL BE NOTIFIED AT LEAST FIVE (5) DAYS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING.

THE CONTRACTOR SHALL COORDINATE ALL WORK ON, OVER OR ADJACENT TO THE RAILROADS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL CONTACT CSX RAILROAD, AT LEAST THIRTY (30) DAYS IN ADVANCE, IN ORDER TO COORDINATE THE NECESSARY WORK. UNDER NO CIRCUMSTANCES SHALL THERE BE ANY WORK WITHIN THE RAILROAD RIGHT-OF-WAY WITHOUT THE PROPER AUTHORIZATION AND/OR FLAG PROTECTION FROM THE RAILROAD.

3. REPLACE MISSING SAFETY CABLE AND REMOVE SAFETY CABLE ATTACHED TO HANDRAIL AND REATTACH TO SUPPORT.

4. PAINT THE BEAM/GIRDER ENDS AT THE ABUTMENTS AND INTERMEDIATE EXPANSION JOINTS (AFTER PROPOSED END CROSSFRAMES, EXPANSION JOINTS, AND/OR PROPOSED DRAINAGE TROUGHS ARE INSTALLED).

5. PERFORM SUBSTRUCTURE CONCRETE PATCHING AND CRACK REPAIR.

6. PERFORM SUBSTRUCTURE CONCRETE SEALING (AFTER CONCRETE PATCHING AND

7. REPLACE CONCRETE SLOPE PROTECTION AT THE SOUTH COLUMN OF PIER 14R.

	AWN REVIEWED DATE 7/VS MJL 08/05/20	1SED STRUCTURE FILE NUMBER 1514 W. SUPERIOR AVE., SUITE 1000 * CLEVELAND, OHIO 44113
	DESIGNED DR	CHECKED REV JAM/CJS
r S	STRUCTURE GENERAL NOTES - 4	I-490 OVER CUYAHOGA RIVER
	CUY-490-01.00	PID No. 107408
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4 03/29/2024

FUNDING					ESTIMATED QUANTITIES					C7 CF	ILC. BY: PA IKD. BY: JAN	T/VS DATE M/JDA DATE	: 08/04/20 : 08/05/20
02/IMS/13	ITEM	ITEM EXTENSION	TOTAL	UNIT	DESCRIPTION	WEST ABUTMENT	EAST ABUTMENT	ABUTMENT B-C	ABUTMENT C-B	PIERS	SUPER- STRUCTURE	GENERAL	REF. SHEET NUMBER
LS	201	11000	LS		CLEARING AND GRUBBING							LS	
15	202	11203	15		PORTIONS OF STRUCTURE REMOVED OVER 20 FOOT SPAN AS PER PLAN							15	5/120
1,341	202	22900	1,341	SY	APPROACH SLAB REMOVED							1,341	07120
50	202	32800	50	SY	CONCRETE SLOPE PROTECTION REMOVED							50	
90	202	75266	90	FT	VANDAL PROTECTION FENCE REMOVED AND RESET						90		
LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING							LS	
8	503	21100	8	СҮ	UNCLASSIFIED EXCAVATION	2	2	4^2	2				
		10000					m	700	1 715				
4 (15,296 2	509	20001	15,296		CONCRETE REINFORCEMENT REPLACEMENT OF EXISTING REINFORCEMENT AS PER PLAN	$-\frac{3,052}{250}$	3, (49) 250	125	1,715	250	6,011		120/120
	000	20001	\sim					120		200	1,000		
Z4 (1,062)	510	10000	(1,062)	4 SEACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	462	448	52	100				
33	511	34444	33	СҮ	CLASS QC2 CONCRETE, BRIDGE DECK		4	\mathbf{N}			33		
5	511	34448	5	CY	CLASS QC2 CONCRETE, BRIDGE DECK (PARAPET)						5		
5 5	511	45710	55	CY	CLASS QC1 CONCRETE, ABUTMENT	17	21	5	12			/4\	
4 (2) 531	512	10100	(21 531)		SEALING OF CONCRETE SURFACES (FROXY-URETHANE)	231	288	85	112	8 426	(12 344)	45	
2.723	512	10600	2.723	FT	CONCRETE REPAIR BY EPOXY INJECTION	231	70	00	36	2.615			
12,908	512	74000	12,908	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	212	247	67	67		12,315		
15.000	— • ¬	10001	15 000								15.000		
15,800	513	10201	15,800	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN						15,800	15	6/120
1	513	95030		EACH	STRUCTURAL STEEL, MISC.: INSPECTION SAFETT CADEL STSTEM REFAIN						1		6/120
3	513	95030	3	EACH	STRUCTURAL STEEL, MISC.: FINGER JOINT SINGLE FINGER REPAIR						3		6/120
125	513	95030	125	EACH	STRUCTURAL STEEL, MISC.: REPLACE LOOSE OR MISSING BOLT						125		6/120
41.800	514	00050	41.800	SE	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL						41.800		
41,800	514	00056	41,800	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT						41,800		6/120
43,800	514	00060	43,800	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT						43,800		6/120
43,800	514	00066	43,800	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT						43,800		6/120
40	514	00504	40	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL						40		+
27	514	10000	27	EACH	FINAL INSPECTION REPAIR						27		
500	E10	11010	500								500		
34	516	11210	308	F I F T	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL						308		81/120
3	516	46701	3	EACH	RESET BEARING, AS PER PLAN						3		6/120
LS	516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN							LS	6/120
173	518	62100	173	FT	STRUCTURE DRAINAGE MISC . DRAINAGE TROUCH SYSTEM EXPANSION JOINT 1						173		6/120
135	518	62100	135	FT	STRUCTURE DRAINAGE, MISC.: DRAINAGE TROUGH SYSTEM, EXPANSION JOINT 2						135		6/120
135	518	62100	135	FT	STRUCTURE DRAINAGE, MISC.: DRAINAGE TROUGH SYSTEM, EXPANSION JOINT 3						135		6/120
143	518	62100	143	FT FT	STRUCTURE DRAINAGE, MISC.: DRAINAGE TROUGH SYSTEM, EXPANSION JOINT 4						143		6/120
44	518	62100	144	<i>F 1</i>	STRUCTURE DRAINAGE, MISC.: DRAINAGE TROUGH SYSTEM, EXPANSION JOINT 5						144		67120
2,970	518	62100	2,970	FT	STRUCTURE DRAINAGE, MISC.: 10" GALVANIZED STEEL PIPE, INCLUDING SPECIALS						2,970		6/120
35	518	62200	35	EACH	STRUCTURE DRAINAGE, MISC.: SCUPPER CLEANOUT						35		6/120
	518 518	62200	1	EACH	SIRUCIURE DRAINAGE, MISC. SCUPPER GRATE REPLACEMENT						1	10	7/120
	510		LJ		STRUCTURE DRAINAGE, MIJC. DRIDGE DRAINAGE STSTEM CLEANING								17120
1,032	526	15001	1,032	SY	REINFORCED CONCRETE APPROACH SLABS (T=13"), AS PER PLAN							1,032	7/120
481	526	90010	481	FT	TYPE A INSTALLATION							481	
					ESTIMATED QUANTITIES CONTINUE ON SHEET 10/120								

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UNDING					ESTIMATED QUANTITIES					CA CH	LC.BY: PA KD.BY: JAN	T/VS DAT N/JDA DAT	E: 08/04/20 E: 08/05/20
02/IMS/13	ITEM	ITEM EXTENSION	TOTAL	UNIT	DESCRIPTION	WEST ABUTMENT	EAST ABUTMENT	ABUTMENT B-C	ABUTMENT C-B	PIERS	SUPER- STRUCTURE	GENERAL	REF. SHEET NUMBER
50	601	21000	50	SY	CONCRETE SLOPE PROTECTION							50	
LS	SPECIAL	62540000	LS		MAINTAIN EXISTING LIGHTING							LS	7/120
724	844	10001	724	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN		15		54	655			
58.030	848	10000	58.030	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION (2.50" THICK)						58.030		
58,030	848	20000	58,030	SY	SURFACE PREPARATION USING HYDRODEMOLITION						58,030		
403	848	30000	403	СҮ	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY						403		
2,902	848	50000	2,902	SY	HAND CHIPPING						2,902		
45	848	50100	45		TEST SLAB							LS	
> 65 m	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	59299	~ ⁶⁵ ~		EULL DEPIH REPAIR		\sim	h	\sim	\sim	65	\sim	-

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SITE PLAN	1 - 4
STRUCTURE GENERAL NOTES	5 - 8, 8A
ESTIMATED QUANTITIES	9 - 10
PHASE CONSTRUCTION DETAILS	11 - 28
WEST ABUTMENT REPAIR DETAILS	29 - 31
PIER REPAIR DETAILS	<i>32 - 53</i>
EAST ABUTMENT REPAIR DETAILS	54 - 57
ABUTMENT B-C REPAIR DETAILS	58
ABUTMENT C-B REPAIR DETAILS	59 - 60
ABUTMENT PARAPET REPLACEMENT DETAILS	61
WEARING SURFACE REPAIR DETAILS	62 - 66
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PIER ACCESS MANHOLE REMOVAL DETAILS	68 - 69
MISCELLANEOUS STEEL REPAIR DETAILS	70 - 81
CLIMBING SYSTEM REPAIR DETAILS	82
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FINGER JOINT REPAIR DETAILS	88
DRAINAGE TROUGH REPLACEMENT DETAILS	89 - 97
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TROUGH DRAINAGE SYSTEM DETAILS	103 - 108
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APPROACH SLAB DETAILS	113 - 119
REINFORCING STEEL LIST	120

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D PROP. $2^{1/2}$ " MICRO-SILICA MODIFIED CONCRETE OVERLAY

E EXIST. REINFORCED CONCRETE DECK SLAB, 7¾ "(±) MIN. TO 8¼ "(±) MAX. TOTAL THICKNESS INCLUDING WEARING SURFACE, SEE EXIST.

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(S) REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES AND SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)

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2211-62" 71-38" 611-64" Reference Line-Waterstop from top of footing to bottom of opproach slab (Typical, Elev. 648.43 contraction and expansion joints-(Break in Cross Slope) *Contraction* Elev. 648.16 Joint -6"Ø Helical Perforated ¢ Beam R ¬ C.S.P. (Typical) ∕€ Beam U ∕¢ Beam V - & Beam W and ∕⊈Beam T ∕€ Beam S Q Rocker (Typical Beams EC thru Y) ス 2 89°38'31" 2-89°49'15" 90°00'00"(Typical, Beams Q, Pand N) 7-401@5" 1'-6" 1'-6" Bearing Area 89° 27' 46" 89° 06'17" 89017'02"-(Typical) (Typical) 8 Beam Spaces @ 8'-108" = 71'-3" 44'-5³4'' 223'-114" EXISTING PLAN 147-607, 147-608 and 147-654 @ about 12" 99-EDAW 801 @ about 18" 1-656 e.f.-1-658 e.f.-1-657 e.f. 1-585 ff -1-585ff 1-655 e.f. -1-513 -1-513 Elev. 6.44.86 Elev. 644. 40 <u>3-513ef Elev. 644.18</u> Elev. 644.63 Elev. 643.95 Elev.643.66 2" x 6 " Kel 7-517-6 EXISTING PARTIAL ELEVATION PHASE 1 CONSTRUCTION-PHASE 4 CONSTRUCTION UNIT PHASE 5 CONSTRUCTION 44′-5<u>¾</u>″(±) $\frac{4}{35'-0''}$ 7'-10<u>¾</u>"(±) \otimes 56-A601 DOWELS SPA. @ 1'-0" MAX. = 34'-4"(±) (E.F.) \otimes = 8-A601 DOWELS (TYP.) SPA. @ 1'-0" MAX. = 7'-2¾"(±) (E.F.) 31 rand A502 - A503 (E.F.) (E.F.) -A539 (E.F.) <u>u</u> EXIST. CONTRACTION JOINT C.J. EXIST. EXPANSION JOINT PROPOSED PARTIAL ELEVATION ESTIMATED PATCHING QUANTITIES ESTIMATED CRACK REPAIR QUANTITIES AREA (SF) LOCATION WIDTH X HEIGHT DESCRIPTION LOCATION LENGTH NO NO DETERIORATION DETERIORATION NOTED NOTED

TOTAL	LENGTH ESTIMATED *
	* SEE NOTE 3

—

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TOTAL LENGTH MEASURED

_

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* SEE NOTE 3

	38'-7'8"	
Limit of Porous Backfill		
- & Beom J & Beom H & Beom G & Beom F	E Beam ED E Beam EC	_(
		301)
		2.2
(Typicol)	pansion Joint Filler & Rocker-	
<u>-92"=62'-4"</u> 31'+88'' 31'-38" 5'-0"Rounding	4 Beam Spaces @ 8'-9 ³ "= 35 35'-10	;'-12
223'-114"	· · · · · · · · · · · · · · · · · · ·	
EXISTING PLAN		
	39-653 @ about	12"
@ about 12"	39-607 @ about 12	?" E
out 18"	<u>_</u> 3	<u>-53</u>
Fley 646,95	<u>Elev. 647.32</u> 1-589 f.f.	
f. $\frac{3-517 e.f.}{1-588 f.f}$	Flav I	 64 6
5/7	<u>Elev. 644.88</u> 5-533)40 1
<u>Elev. 643.00</u> <u>Elev. 642.80</u> <u>Elev. 642.40</u> <u>Elev. 6</u>	643.39	<u> </u>
<u>Elev.642.60</u>		
Slage Protoction 3-517e.f.		
EXISTING PARTIAL ELEVATION		
PHASE 3 CON	STRUCTION	
$31' - 8^{1}/_{8}''(\pm)$	43′-4¾″(±)	
$\frac{25' - 10\%'(\pm)}{100} = 25' - 25' $	44-4601 DOWELS SP4 @ 1'-0" MAX = 42	21-8
A601 DOWELS		
A. @ 1'-O" MAX. 5'-1 ¹ /2"(±) (E.F.)	A-1 A50) <i>8</i> (
- 1502 (F F)	31	
A506 (E.F.) 1" PEJF A507 (E.F	.)	
EXIST. EXPANSION JOINT		
PROPOSED PARTIAL ELEVATION		/
	•	1
ESTIMATED PATCHING QUANTITIES ESTIMATED CRACK REP	PAIR QUANTITIES	2
ATION WIDTH X HEIGHT AREA (SF)	TION LENGTH	
NO I STEM		-
DETERIORATION NOTED		
TOTAL AREA MEASURED – TOTAL LENGTH MEASUR	RED 1.00'	Z

TOTAL AREA ESTIMATED * * SEE NOTE 3

_

TOTAL LENGTH ESTIMATED * * SEE NOTE 3

1.50′

ESTIMA	TED PATCHING QUAI	VTITIES
CATION	WIDTH X HEIGHT	AREA (SF)
	NO	
	DETERIORATION	
	NOTED	
TOTAL AP	REA MEASURED	_
otal are	A ESTIMATED *	-
	* SEE NOTE 3	

ESTIMATE	D CRACK REPAIR QU	JANTITIES
LOCATION	DESCRIPTION	LENGTH
1	STEM	1.50′
2	1.00′	
3	STEM	2.50'
4	STEM	3.50′
5	STEM	2.50'
6	STEM	3.50′
7	STEM	3.00′
8	STEM	3.00′
TOTAL LEI	20.50'	
TOTAL LENG	TH ESTIMATED *	30.75′
	* SEE NOTE 3	

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APPROA	CH SLAB EL	EVATIONS	SLEEPE	R SLAB ELE	VATIONS	
LO	CATION	REAR	LO	CATION	REAR	
	STATION	985+65.40		STATION	985+61.43	
(1)	OFFSET	<u>(-1.45</u>) 4	9	OFFSET	F-1.45	
	ELEVATION	647.13		ELEVATION	645.95	
	STATION	985+85.45		STATION	985+69.44	
(2)	OFFSET	(-1.63)/4	10	OFFSET	-1.49	
Ŭ	ELEVATION	647.54		ELEVATION	646.14	
	STATION	985+64.72		STATION	G 985+60.71	
(3)	OFFSET	-35.58	$\left(11\right)$	OFFSET	-35.58	DATE 105,
\bigcirc	ELEVATION	646.52		ELEVATION	645.26	08/ FILE
	STATION	985+84.86		STATION	985+68.76	WED L
(4)	OFFSET	-35.58	[12]	OFFSET	-35.58	
\bigcirc	ELEVATION	647.09		ELEVATION	645.50	
	STATION	985+64.07		STATION	985+60.04	AWN 1SED
$\overline{(5)}$	OFFSET	-68.46	13	OFFSET	-67.24	DAF DAF
\smile	ELEVATION	645.92		ELEVATION	644.62	
	STATION	985+84.29		STATION	985+68.13	SIGNE S/J ECKEL
(6)	OFFSET	-68.46	14	OFFSET	-67.40	CHI CHI
	ELEVATION	646.55		ELEVATION	644.90	
	STATION	985+64.02				
$\overline{(7)}$	OFFSFT	-73.46				
$\mathbf{\cdot}$	ELEVATION	646.30				
	STATION	985+84.26				\sim
(8)	OFESET	-73.46				
		646.88				
2'-6" MI	N. LAP	PECTORS,				WEST ABUTMENT APPROA(BRIDGE NO. CUY
<u>NOTES</u>						
. ELEVATI ADJUSTE	ONS SHOWN ON T D TO MATCH THE	THIS SHEET ARE E EXISTING STRU	TO BE FIELD CTURE.	VERIFIED AND		00
?. THREADE THREADE APPROVE REINFOR	D MECHANICAL C D DOWEL BAR AS ED EQUAL. COS CED CONCRETE A	ONNECTORS SHA SSEMBLY, LENTO T SHALL BE INCL APPROACH SLABS	LL BE RICHMC N REBAR SPLI UDED FOR PA S (T=13″), AS F	ND SCREW ANCH CING MECHANISM YMENT WITH ITE PER PLAN.	IOR 1, OR TM 526,	490-01。 10740
3. SEAL TH METHACK CENTERE REINFOR	E LONGITUDINAL RYLATE (HMWM). D OVER THE JOI CED CONCRETE A	CONSTRUCTION THE WIDTH OF T NT. PAYMENT S APPROACH SLABS	JOINT WITH H THE SEALING S HALL BE MADE S (T=13″), AS F	IGH MOLECULAR SHALL BE TWO F E UNDER ITEM 5. PER PLAN.	WEIGHT EET (2'), 26,	
	NFORCING STEEL	LIST, SEE SHEE	T 120/120.			114/12
ч. ГОК KEII			$\sim\sim\sim\sim$			
5. FOR MED	DIAN BARRIER ELI	EVATION, SEE SH	HEET 118/120.	34		125

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5. FOR REINFORCING STEEL LIST, SEE SHEET 120/120.

BEL	B ELEVATIONS								
	REAR								
TION	985+63.69								
SET	-109.44								
A TION	649.26								
TION	985+84.09								
SET	-104.41								
A <i>TION</i>	649.43								
TION	985+84.09								
SET	-114.61								
A <i>TION</i>	649.68								
TION	985+84.06								
SET	-109.57								
A <i>TION</i>	649.85								
TION	985+63.18								
SET	-142.25								
A <i>TION</i>	652.34								
TION	985+83.70								
SET	-137.21								
A <i>TION</i>	652.17								
TION	985+63.05								
SET	-149.87								
A <i>TION</i>	653.02								
TION	985+83.60								
SET	-144.83								
A <i>TION</i>	652.80								
SE I ATION	-144.83 652.80								

SLEEPER	SLAB ELE	VATIONS
LOCA	TION	REAR
	STATION	985+59.59
9	OFFSET	-111.96
~	ELEVATION	648.53
	STATION	985+67.74
10	OFFSET	-112.09
	ELEVATION	648.36
	STATION	985+59.06
	OFFSET	-143.25
~	ELEVATION	651.29
	STATION	985+67 . 29
12	OFFSET	-141.25
~	ELEVATION	651.23
	STATION	985+58.92
13	OFFSET	-151.39
~	ELEVATION	651.99
	STATION	985+67.16
14	OFFSET	-149.39
~	ELEVATION	651.90

ALL ELEVATIONS ARE ±

1. ELEVATIONS SHOWN ON THIS SHEET ARE TO BE FIELD VERIFIED AND ADJUSTED TO MATCH THE EXISTING STRUCTURE.

2. THIS DRAWING PROVIDES DETAILS TO SUPPLEMENT THE STANDARD DRAWING. FOR APPROACH SLAB REINFORCING STEEL AND DETAILS NOT SHOWN, REFER TO STANDARD DRAWING AS-1-15.

3. THREADED MECHANICAL CONNECTORS SHALL BE RICHMOND SCREW ANCHOR THREADED DOWEL BAR ASSEMBLY, LENTON REBAR SPLICING MECHANISM, OR APPROVED EQUAL. COST SHALL BE INCLUDED FOR PAYMENT WITH ITEM 526, REINFORCED CONCRETE APPROACH SLABS (T=13"), AS PER PLAN.

4. SEAL THE LONGITUDINAL CONSTRUCTION JOINT WITH HIGH MOLECULAR WEIGHT METHACRYLATE (HMWM). THE WIDTH OF THE SEALING SHALL BE TWO FEET (2'), CENTERED OVER THE JOINT. PAYMENT SHALL BE MADE UNDER ITEM 526, REINFORCED CONCRETE APPROACH SLABS (T=13"), AS PER PLAN.

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ROAU	CH SLAB EL	EVATIONS	SLEEPEI	R SLAB ELE	VATIONS	N
LOU	CATION	FORWARD		$\frac{24}{4}$	FORWARD	
_	STATION	1020+46.14	4	STATION	1020+61.37	
1)	OFFSET	-1.63		OFFSET	-1.48	
	ELEVATION	650.75		ELEVATION	649.32	
_	STATION	1020+66.36	4	STATION	1020+71.33	
2)	OFFSET (-1.45	[12]	OFFSET	-1.45	
	ELEVATION	650.24		ELEVATION	649.02	
_	STATION	1020+21.64		STATION	1020+36.66	/20 IBER
3)	OFFSET	-35.58	[13]	OFFSET	-35.58	DATE 105,
	ELEVATION	651.71		ELEVATION	650.35	08/ 100
_	STATION	1020+41.59		STATION	1020+46.53	WED L
4)	OFFSET	-35.58	[14]	OFFSET	-35.58	MJ MJ
	ELEVATION	651.30		ELEVATION	650.13	r v ⊻ v
_	STATION	1019+88.97	~	STATION	1020+02.96	AWN MH
	OFFSET	-80.87	[15]	OFFSET	-82.09	DAF.
	ELEVATION	652.99		ELEVATION	651.74	
	STATION	1020+07.55		STATION	1020+12.14	SIGNE SIGNE
	OFFSET	-82.50	16	OFFSET	-82.91	
	ELEVATION	652.76		ELEVATION	651.66	
	STATION	1019+85.61		STATION	1019+99.59	
	OFFSET	-85.60	17	OFFSET	-86.81	
	ELEVATION	653.28		ELEVATION	651.92	
	STATION	1020+04.18		STATION	1019+08.76	\sim
	OFFSET	-87.22	(18)	OFFSET	-87.62	
-	ELEVATION	652.94		ELEVATION	651.81	
	STATION	1019+81.35		STATION	1019+95.33	TA
\overline{A}	OFFSET	-91.60	(19)	OFFSET	-92.80	
	ELEVATION	653.58		ELEVATION	652.27	AB 010(
	STATION	1019+99.91		STATION	1020+04.15	SL 90-
$\overline{\mathcal{O}}$	OFFSET	-93.20	(20)	OFFSET	-94.08	CH
	ELEVATION	653.28		ELEVATION	652.16	
TES		ALL ELEVA	TIONS ARE ±			EAST ABUTMENT AF BRIDGE I
ELEV ADJU THIS FOR	ATIONS SHOWN STED TO MATCH DRAWING PROVI APPROACH SLAB	ON THIS SHEET , THE EXISTING S DES DETAILS TO REINFORCING S	ARE TO BE FIE STRUCTURE. D SUPPLEMENT STEEL AND DET	ELD VERIFIED AN THE STANDARD TAILS NOT SHOW	ND DRAWING. 'N, REFER	
TO S THRE THRE APPR REINI SEAL METH	TANDARD DRAWI ADED MECHANICA ADED DOWEL BA OVED EQUAL. FORCED CONCRE THE LONGITUDI ACRYLATE (HMW)	NG AS-1-15. AL CONNECTORS R ASSEMBLY, LE COST SHALL BE TE APPROACH SU NAL CONSTRUCT M). THE WIDTH	SHALL BE RIC ENTON REBAR S INCLUDED FOR LABS (T=13″), A TION JOINT WIT OF THE SEALI	THMOND SCREW A SPLICING MECHA PAYMENT WITH AS PER PLAN. TH HIGH MOLECU NG SHALL BE TW	ANCHOR NISM, OR ITEM 526, LAR WEIGHT VO FEET (2'),	J Y - 49 0- 01.00 ID No. 107 408

5. FOR REINFORCING STEEL LIST, SEE SHEET 120/120.

6. FOR MEDIAN BARRIER ELEVATION, SEE SHEET 118/120.

117/120

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	VATIONS	SLAB ELE	SLEEPER	EVATIONS	AB ELL
	FORWARD	ATION	LOCA	FORWARD	
	14+91.20	STATION		14+75.44	ATION
	17.79	OFFSET	7	17.71	FFSET
	665.20	ELEVATION	~	666.47	VATION
	14+99.17	STATION		14+95.24	ATION
	17.84	OFFSET	8	17.81	FFSET
	665.11	ELEVATION	~	666.23	VATION
<i>'</i> 20	14+93.71	STATION		14+77.61	ATION
05/	0.00	OFFSET	9	0.00	FFSET
08/	664.99	ELEVATION	~	666.00	VATION
/ED	15+01.79	STATION		14+97.75	ATION
EVIEM MJL	0.00	OFFSET	(10)	0.00	FFSET
	665.02	ELEVATION	~	666.08	VATION
NWA VWA	14+94.75	STATION		14+78.48	ATION
DAF	-7.41	OFFSET	(11)	-7.36	FFSET
_ v	664.87	ELEVATION	~	665.75	VATION
SIGNE S/V	15+05.41	STATION		14+98.83	ATION
DE()	-7.82	OFFSET	12	-7.38	FFSET
	664.91	ELEVATION	~	666.00	VATION

ALL ELEVATIONS ARE ±

1. ELEVATIONS SHOWN ON THIS SHEET ARE TO BE FIELD VERIFIED AND ADJUSTED TO MATCH THE EXISTING STRUCTURE.

		VATIONS	SLAB ELE	SLEEPER	EVATIONS	AB ELE
		REAR	<i>TION</i>	LOCA	REAR	
		14+78.96	STATION		14+64.60	4 <i>TION</i>
		7.42	OFFSET	(7)	7.42	FSET
		667.34	ELEVATION	~	667.82	VATION
		14+90.21	STATION		14+84.60	4 <i>TION</i>
		7.42	OFFSET	8	7.42	FSET
		667.81	ELEVATION	~	668.65	VATION
MBER	Ц И И И И И И И И И И И И И И И И И И И	14+71.52	STATION		14+57.18	4 <i>TION</i>
	DAT 205	0.00	OFFSET	9	0.00	FSET
	080	667.09	ELEVATION	~	667.61	VATION
CTUR	E WED	14+82.84	STATION		14+77.18	4 <i>TION</i>
STRU	Revie M .	0.00	OFFSET	$\overline{10}$	0.00	FSET
2	Ľ	667.53	ELEVATION	~	668.39	VATION
VISEI	RAWN.	14+44.11	STATION		14+29.76	4 <i>TION</i>
		-27.41	OFFSET	(11)	-27.41	FSET
ED	ED	666.32	ELEVATION	~	666.97	VATION
HECK	E SIGN	14+55.40	STATION		14+49.76	4 TION
\bigcirc	DI	-27.41	OFFSET	(12)	-27.41	FSET
		666.66	ELEVATION	~	667.57	VATION

ALL ELEVATIONS ARE (±)

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4 03/29/2024

1. ELEVATIONS SHOWN ON THIS SHEET ARE TO BE FIELD VERIFIED AND ADJUSTED TO MATCH THE EXISTING STRUCTURE.

MARK	NO.	LENGTH	WEIGHT	TYPE	Λ			ט ח	
Δ					A				
			171	CTD.					
A501	4	31'-5"	\bigwedge_{127}^{137}	SIR					
A502	16		<u>4 X</u> 5	SIR					
A503	4	$(15/2)^{*}$	/ð	SIR					
A504	4		0J 27	SIR					
A505 4506	4	5-5	25						
A300 4507	4	25-0	68						
A307 1508	4	301-11	127						
A500 1509	4	30-4	121	STR					
A510	8	27'-1"	100 ▲ 226	STR					
<u> </u>	4	16'-4"	A 68	STR					
4.512	8	221-9"	<u> </u>	STR					
4.513	4		48	STR					
<u> </u>	8	24'-3"	202	STR					
A.51.5	8	221-21	▲ 18.5	STR					
A.516	NOT	USFIT							
A517	NOT	USED L	-+ \						
A518	4	25'-2"	105	STR					
A519	8	26'-2"	218	STR					1
*	6	3'-0"			2'-5"				
A520	SER OF	TO	321	16	TO				
	15	3'-10"			3'-3"				
A521	24	13′-10″	346	STR	1				1
A522	12	5'-7"	70	25	1'-10″	2'-5"	1'-4″	0'-2"	0'
A523	12	5′-8″	71	STR					
A524	36	10'-0"	375	STR					
A525	39	7'-0"	285	23	0'-8"	3'-3"	3'-0"		
A526	2	13′-8″	29	STR					
A527	6	2'-6″	16	STR					
A528	4	4'-9"	20	STR					
A529	2	16′-6″	34	STR					
A530	6	6'-8″	42	STR					
A531	4	8′-11″	37	STR					
A532	2	20'-8″	43	STR					
A533	12	4'-8"	58	STR					
A534	8	6′-11″	58	STR					
A535	4	18'-9″	78	STR					
A536	6	14'-2"	89	STR					
A537	4	16'-5"	68	STR					
A538	h^2		$\gamma \gamma \gamma \gamma \gamma$	SIR					
<u>A539</u>	8	4'-8"	39	STR	<u>74</u>				
A540		5'-1''	$\frac{42}{\sqrt{2}}$	SIR					
1601	(1060)	21_6#	3 000	1	01_0#	1/_11//			
AUUI		2 -0 7/_1/1///	J,30U		5-3	י <i>בוו</i> קי_חיי			
1602			575	1	1'_0"				
71002	1.5	4'-8"			, 0	3'-10"			+
A60.3	36	3'-10"	207	1	1'-0"	3'-0"			
A604	4	4'-11"	30	. 24	0'-5"	2'-2"			1
A605	4	5'-4"	32	2.3	0'-8"	2'-5"	2'-2"		1
A606	4	3'-5"	21	14	1'-0"	1'-3"	0'-8"	0'-6"	0'
A607	8	4'-4"	52	1	1'-0"	3'-6"			
A608	4	5'-2"	31	24	0'-7"	2'-2"			1
A609	4	5′-4″	32	23	0'-8"	2'-5"	2'-2"		1
A610	4	3'-7"	22	14	1'-0"	1'-3"	0'-8"	0'-7"	0'
					-	-	-		-
		TOTAL	9,285	LBS					1

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MARK	NO.	LENGTH	WEIGHT	TYPE	A	<i>B</i>	C	D	E	
SUPER	RSTRU	CTURE								
5501	36	7′-0″	263	23	0'-8"	31_3"	3'-0"			
	48	3'-0"	150	14	1'-0"	0'-10"	0'-8"	0'-6"	0'-7"	
S503	48	2'-4"	117	1	1'-0"	1'-6"				
<i>S504</i>	12	4'-10"	60	24	0'-4"	2'-2"				
<i>S505</i>	12	5′-4″	67	23	0'-8″	2'-5"	2'-2"			
CC01	150	<u> </u>	1 7 0 0	17						
5602	76 76	30'-0"	1,528 3 125	 	4'-4"					
<u>5603</u>	20	20'-0"	601	 STR						
		TOTAL	6,011	LBS						
APPR AS501	OACH S	SLABS 5'-1"	445	28	2'-9"	1'-3"				
AS502	42	6'-3"	274	2	2'-11″	0'-8"	2'-11″			2
AS503 AS504	40 84	19'-8" 5'-3"	820 460	STR STR						3
AS601	84	4'-9"	599	14	1'-10"	0'-10"	0'-11″	0'-4"	1'-5"	2
		TOTAL	2,598	LBS						3
~~~	تبير	μιι	لمنك		لتنب	h	لننا	لبينا	تىب	$\downarrow$
										+

CONCRETE REINFORCEMENT WEIGHTS AND TOTALS FOR THE APPROACH SLABS ARE PROVIDED FOR INFORMATION ONLY. THE CONCRETE REINFORCEMENT LISTED ABOVE IS REQUIRED IN ADDITION TO THE CONCRETE REINFORCEMENT SHOWN IN ODOT STANDARD DRAWING AS-1-15. INCLUDE ALL CONCRETE REINFORCEMENT FOR APPROACH SLABS FOR PAYMENT WITH ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=13"), AS PER PLAN.

![](_page_68_Figure_7.jpeg)