



**OHIO TURNPIKE AND
INFRASTRUCTURE COMMISSION**

ADDENDUM NO. 3
ISSUED JANUARY 28, 2020

PROJECT NO. 39-20-02 (PART A)
MAINLINE PAVEMENT RECONSTRUCTION
MILEPOST 46.50 TO MILEPOST 50.92
FULTON & LUCAS COUNTIES, OHIO
ISSUED DECEMBER 30, 2019

PROJECT NO. 39-20-02 (PART B)
TOLL PLAZA 49 SITE CONSTRUCTION
MILEPOST 48.8 TO MILEPOST 49.1
LUCAS COUNTY, OHIO
ISSUED DECEMBER 30, 2019

OPENING DATE PREVIOUSLY *EXTENDED TO*: 2:00 P.M. (EASTERN TIME), ~~JANUARY 27~~
FEBRUARY 4, 2020

ATTENTION OF BIDDERS IS DIRECTED TO:
ANSWERS TO QUESTIONS RECEIVED THROUGH 10:00 A.M. ON JANUARY 28, 2020

MODIFICATIONS TO THE CONTRACT DOCUMENTS

Plan Sheets:

39-18-02A – 1, 10, 169 and 478 of 505

39-18-02B – 9 of 59

-AND-

OTIC Standard Drawings CJ-1 and TCR-14

-AND-

Bid Schedule of Items and Estimated Quantities Worksheet

Ref. Nos. 27A of 315

Issued by the Ohio Turnpike and Infrastructure Commission through Jennifer L. Stueber, Esq., General Counsel.

Jennifer L. Stueber, Esq.,

1/28/2020

Date

ANSWERS TO QUESTIONS RECEIVED THROUGH 10:00 A.M. ON JANUARY 28, 2020:

Q#44 Part B plan sheet 9 has notes calling for the contractor to place temporary asphalt wedges over the SP302 at the staging areas adjacent to the staging area. There is no Asphalt for Maintaining Traffic bid item in part B. Will the temporary wedges be paid for under bid item 138 in Part A Asphalt for Maintaining Traffic or will there be similar item added to part B?

A#44 This Addendum No. 3 revises the Part B Contract Coordination Plans, Plan Sheet No. 9 of 59 to remove the language requiring the contractor to place temporary asphalt wedges in the pedestrian bridge assembly staging area.

Q#45 Part A typical sections do not show anything for in between stations 1327+50 and 1345+50. Subsummary sheets 180 and 181 call for this section to be removed and replaced. This section was part of project 43-19-07. What is the typical section for this run of pavement and is this section to be rebuilt on this project?

A#45 The Normal Typical Section on Typical Sections Plan Sheet No. 10 of 505 clearly shows work within the limits of Station 1327+50 to Station 1345+50 for both the eastbound and westbound directions. Excluded from the limits shown for this Typical Section are the limits of the bridges that were constructed under OTIC Project 43-19-07.

Q#46 After reviewing the NWP Authorization for Beecher Ditch (provided in Add. #2) it is unclear if In-Water Work Exclusion Dates apply to Beech Ditch. Will the Commission please clarify if In-Water Work Exclusion Dates apply to Beech Ditch, and if so, what those Exclusion Dates are?

A#46 In-Water Work Exclusions do not apply to Beecher Ditch as it is not listed under those waters identified by ODNR for work restrictions under NWP Regional General Conditions (see page 19 of NWP#14). No other Special Conditions were placed on the permit by the USACE.

Q#47 After reviewing the Jurisdictional Determination provided in Add. #2, it appears that this JD only covered the portion of the project roughly between Fulton-Lucas Road and Scott Road. Were separate JDs completed for the remaining portions of the project to the east and west? If so, will the Commission please provide those additional JDs for the Bidders to review?

A#47 No Jurisdictional Determinations were warranted outside of the Fulton-Lucas Road and Scott Road areas.

Q#48 Ref. #109, Catch Basin No. 1, APP (17 EA) – What location should the Contractor pick up these catch basins and is the OTC providing the castings for these structures?

A#48 The Catch Basin No. 1, As Per Plan note on General Notes Sheet 23 of 505 states that only the precast concrete will be supplied by OTIC. The precast concrete is stored at the east end of the of the abandoned westbound service plaza located at MP 49.

Q#49 Plan sheet 78 and 79, Maintenance of Traffic Plan, Phase 1, left side, from approximate station 18+20 to 36+00, appears to show, but is not called out, a run of Portable Barrier with an impact attenuator. What is Ohio Turnpike Commission trying to show the contractor at this location?

A#49 The barrier shown is the Item Legend No. 38, Item 622 – Concrete Barrier, Single Slope, Type C that is to be placed per the typical section shown on Typical Sections Plan Sheets 13 and 14 of 505.

Q#50 Plan sheet 150 thru 152, Maintenance of Traffic Plan, Phase 2, right side, from approximate station 16+50 to 34+25, appears to show, but is not called out, a run of Portable Barrier with an impact attenuator. What is Ohio Turnpike Commission trying to show the contractor at this location?

A#50 The barrier shown is the Item 622 – Concrete Barrier, Single Slope, Type C that is to be placed per the typical section shown on Typical Sections Plan Sheets 13 and 14 of 505.

Q#51 On sheet BP-3.1 of the standard drawings (aggregate drain), it does not call out the difference between type 1 and type 2, please clarify?

A#51 This Addendum No. 3 revises the Part A Title Sheet, Plan Sheet No. 1 of 505, to add OTIC Standard Drawing CJ-1 dated 10-20-17. Section AA on Standard Drawing CJ-1 shows that Type 1 Aggregate drains are parallel to the pavement and Type 2 Aggregate drains are perpendicular to the pavement.

Q#52 On Plan sheet PIS-1 of Part A, Note #12 states that a contingency quantity of 1,985CY – Item Special Limestone Sand has been carried to the general summary. We are unable to determine where this quantity has been picked up. Could the Commission please clarify where this items is to be paid, if needed?

A#53 This Addendum No. 3 revises the General Summary Plan Sheet No. 169 of 505 to add the ITEM SPECIAL – LIMESTONE SAND as well as the quantity of 1,985 CY; and adds Reference No. 27A on the Bid Schedule of Items and the Estimated Quantities Worksheet to add ITEM SPECIAL – LIMESTONE SAND and a quantity of 1,985 CY.

Q#53 Plan sheet 10 on typical sections calls out Topsoil as being 3” thick. Plan sheet 23 Erosion Control notes gives quantities of Topsoil as well as Seeding and Mulching such that it calculates to 4” thick topsoil over seeding area. Please verify if topsoil thickness is to be 3” or 4”.

A#53 This Addendum No. 3 revises Typical Sections Plan Sheet No. 10 of 505 to change Item Legend No. 19 to Item 659 – Topsoil (T=4”).

Q#54 Ohio Turnpike and Infrastructure Commission update to Standard Drawing TCR-14.

A#54 This Addendum No. 3 revises the Part A Title Sheet, Plan Sheet No. 1 of 505, to revise the current date of OTIC Standard Drawing TCR-14 to 12-31-19 and provides the revised OTIC Standard Drawing TCR-14, dated 12-31-19.

Q#55 We are unable to determine where the excavation of the detention basins are to be paid for discussed on sheet 24/505 and shown on sheet 398,399/505. In review of the cross-sections, specifically sheet 320/505 it states that “BMP Earthwork not represented in cross-section quantities”. Can the commission inform the bidders how this excavation will be paid for?

A#55 Quantities for the detention basins are shown on Earthwork Sub Summary, Plan Sheet No. 176 of 505 under the headings of North Basin referencing Plan Sheet No. 398 of 505 and South Basin referencing Plan Sheet No. 399 of 505.

Q#56 What is the maximum amount of weight the Turnpike Commission will allow to cross the existing structures at AI Creek and SR 64 with construction related equipment and trucks?

A#56 Please reference Special Provision SP109D for restrictions and required analysis.

Q#57 We represent GE Lighting for the Ohio DOT market and would like to get a pre bid question answered on this project. The plans call for the following LED fixtures:

**REF 233 – LED fixture w/ 120-277 Volts – Type II Distribution – 4,000K color temp - w/
House Side Shield – 388 Watts / 40,300 Lumens**

**REF 234 – LED fixture w/ 120-277 Volts – Type IV Distribution – 4,000K color temp w/
House Side Shield – 388 Watts / 41,600 Lumens**

REF 235 – LED fixture w/ 120-277 Volts – Type III Distribution – 4,000K color temp w/ House Side Shield – 214 Watts / 26,800 Lumens

REF 236 – LED fixture w/ 120-277 Volts – Type III Distribution – 4,000K color temp w/ House Side Shield – 83 Watts / 10,800 Lumens

Please advise if GE Lighting’s EALP & EALS LED fixtures with the following distribution and wattages is considered an approved equal to what is being specified in the plans:

REF 233 (GE PART #EALP-03-0-M2-AN-7-40-N-D-C1-GRAY-LR) – GE LED EALP fixture w/ 120-277 Volts – Type II Distribution – w/ shorting cap 4,000K color temp - w/ House Side Shield – 305 Watts / 40,400 Lumens

REF 234 (GE PART #EALP-03-0-M4-AF-7-40-N-D-C1-GRAY-LR) – GE LED EALP fixture w/ 120-277 Volts – Type IV Distribution – w/ shorting cap 4,000K color temp w/ House Side Shield – 305 Watts / 40,000 Lumens

REF 235 (GE PART #EALP-03-0-K3-AW-7-40-N-D-C1-GRAY-LR) – GE LED EALP fixture w/ 120-277 Volts – Type III Distribution – w/ shorting cap 4,000K color temp w/ House Side Shield – 212 Watts / 30,000 Lumens

REF 236 (GE PART #EALS-03-0-D3-AW-7-40-N-D-C1-GRAY-LR) – GE LED EALS fixture w/ 120-277 Volts – Type III Distribution – w/ shorting cap 4,000K color temp w/ House Side Shield – 70 Watts / 10,100 Lumens

Also, please confirm a House Side Shield is needed as LED fixtures have excellent light control.

I’ve attached a cut sheet of GE Lighting’s EALP & EALS fixtures as well as some additional benefits of the GE luminaire below:

GE Lighting uses several unique design features in their fixtures including:

- **Advanced reflective optic design = Less Glare for the traveling public**
- **The LED chamber is completely sealed using a flat tempered glass panel – the optics are not exposed to the elements as is common with other LED designs out on the market = Reduced dirt depreciation**
- **Flat Glass design has the best dirt depreciation performance ratings per the IES study (1% annually vs. up to 3.8% for other exposed optic design LED’s)**
- **Improved ratings for backlight, upright and glare (BUG ratings)**
- **GE Lighting uses their own drivers and places the LED chips on board at their Hendersonville, NC production facility**

A#57 Yes, the General Electric fixture is an approved equal and the General Note on Plan Sheet No. 478 of 505 has been modified with this Addendum No. 3.

Q#58 In the estimated quantities worksheet, for the Temporary Access Deduct Alternate it states that the information specified in SP 104 must be included with the submitted bid. There is no place on the Bid Express form to put required information. Please specify as to how/when the bidder is to supply required SP 104 information.

A#58 SP 104I, "Temporary Access Deduct Alternate" states that "In addition, The Contractor shall furnish the following information in the sealed envelope containing its signed original Bid Guaranty/Performance Bond, Power of Attorney, Bidder's Affidavit and completed Financial Statement submitted within twenty-four (24) hours of the Bid Opening in accordance with Articles 2.7.2, 2.7.4 and 6.1.1 of the Instructions to Bidders."

Q#59 The temporary access deduct alternative on the Bid Express form, states that the Temporary Access Deduct Alternate is to be a positive number. The Waste Site 1 and 2 Deduct Alternates do not indicate if the amount to be entered is to be a positive number. Please verify if these two deducts are to be positive numbers or not.

A#59 Yes, the Waste Site 1 Deduct Alternate, Waste Site 2 Deduct Alternate, and Temporary Access Deduct Alternate should all be positive numbers.

Receipt of Addendum No. 3

Project No. 39-20-02 (Part A & B) is hereby acknowledged:

(Firm Name) _____

(Signature) _____

(Printed Name) _____

(Date) _____

BIDDERS MUST RETURN THE ABOVE ACKNOWLEDGEMENT OF RECEIPT OF ADDENDUM NO. 3 WITH THEIR BID.

THE OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

JAMES W. SHOCKNESSY OHIO TURNPIKE



PROJECT NO. 39-20-02A MAINLINE PAVEMENT REPLACEMENT

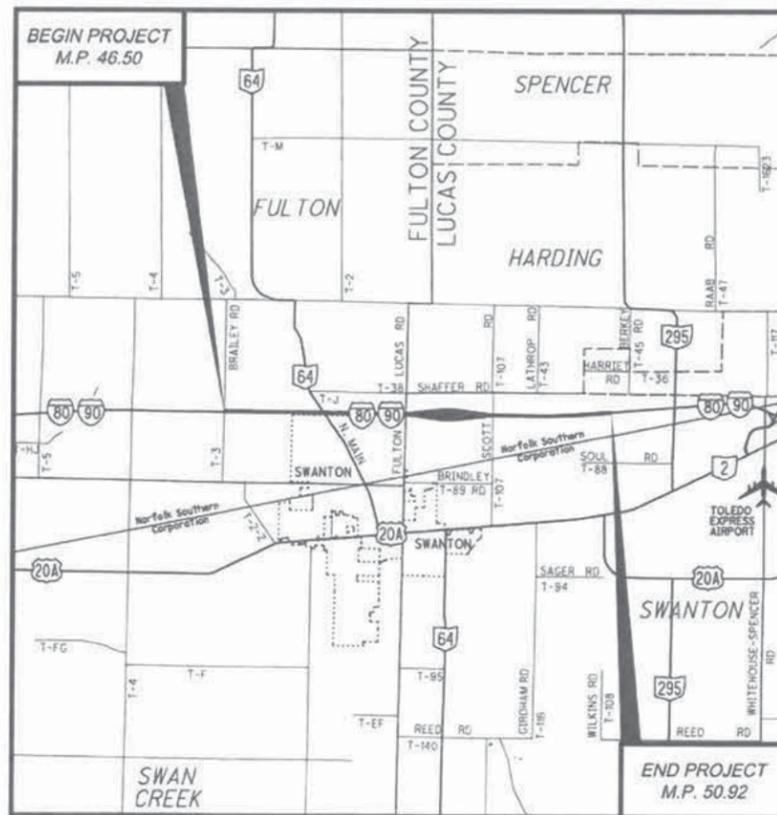
MILEPOST 46.50 TO MILEPOST 50.92
FULTON AND LUCAS COUNTIES, OHIO

AS-1	12-31-19			TC-1	10-20-17
CB-1	12-31-19			TC-2	10-20-17
CBR-2	09-19-18			TCB-1	10-20-17
DR-1	10-20-17			TCB-2	10-20-17
F-1	10-20-17			TCB-3	10-20-17
F-1	10-20-17			TCR-1	10-20-17
F-1	10-20-17			TCR-2	10-20-17
RPM-1	10-20-17			TCR-4	10-20-17
UD-1	09-19-18			TCR-9	10-20-17
CJ-1	10-20-17			TCR-10	10-20-17
				TCR-11MZ	10-20-17
				TCR-11PS	10-20-17
				TCR-12	10-20-17
				TCR-13	10-20-17
				TCR-14	12-31-19
				TCR-15	10-20-17

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BP-3.1	7/18/2014	MT-95.70	7/20/2018	TC-41.10	7/19/2013
BP-5.1	7/20/2018	MT-99.30	1/19/2018	TC-41.20	10/18/2013
CB-1.1	7/20/2018	MT-101.60	1/20/2017	TC-41.30	10/18/2013
CB-2.3	1/15/2016	MT-101.70	7/20/2018	TC-41.50	10/18/2013
		MT-101.75	7/15/2016	TC-42.10	10/18/2013
MH-1.2	1/15/2016	MT-101.90	7/21/2017	TC-42.20	10/18/2013
HW-2.2	7/20/2018	MT-102.10	1/20/2017	TC-51.11	1/15/2016
I-2.2	1/15/2016	MT-102.20	7/18/2014	TC-52.10	10/18/2013
		MT-105.10	7/19/2013	TC-52.20	7/20/2018
DM-1.1	7/21/2017			TC-61.10	1/17/2014
DM-4.3	1/15/2016	HL-10.11	7/20/2018	TC-71.10	1/19/2018
DM-4.4	1/15/2016	HL-10.12	1/20/2017	TC-72.20	7/20/2018
F-3.1	7/19/2013	HL-10.13	7/20/2018		
F-3.3	7/19/2013	HL-20.11	4/21/2017		
F-3.4	7/19/2013	HL-20.13	1/19/2018		
		HL-30.11	7/20/2018		
MGS-1.1	1/19/2018	HL-30.21	1/17/2014	800	7/19/2019
MGS-2.1	1/19/2018	HL-30.22	1/17/2014	821	4/20/2012
MGS-3.1	1/19/2018	HL-30.41	1/19/2018	832	10/19/2018
MGS-3.2	1/18/2013	HL-40.20	7/20/2018	861	1/16/2015
MGS-4.1	1/20/2017	HL-60.11	7/21/2017	921	4/20/2012
MGS-4.2	7/19/2013	HL-60.12	7/15/2016	992	4/18/2014
MGS-4.3	1/18/2013	HL-60.31	7/20/2018		
RM-4.2	4/18/2014				
RM-4.3	7/18/2014	TC-7.65	7/20/2018		
RM-4.5	7/21/2017	TC-12.30	1/19/2018		
RM-4.6	7/19/2013	TC-16.21	7/20/2018	1003	7/17/2015
		TC-21.10	7/21/2017	1122	7/20/2018
WQ-1.1	1/18/2013	TC-21.20	7/20/2018		
WQ-1.2	1/15/2016	TC-21.50	7/15/2016		
		TC-22.20	1/17/2014		



APPROVED FOR
THE OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION
BY
Anthony D. Park
CHIEF ENGINEER
12-17-19
DATE

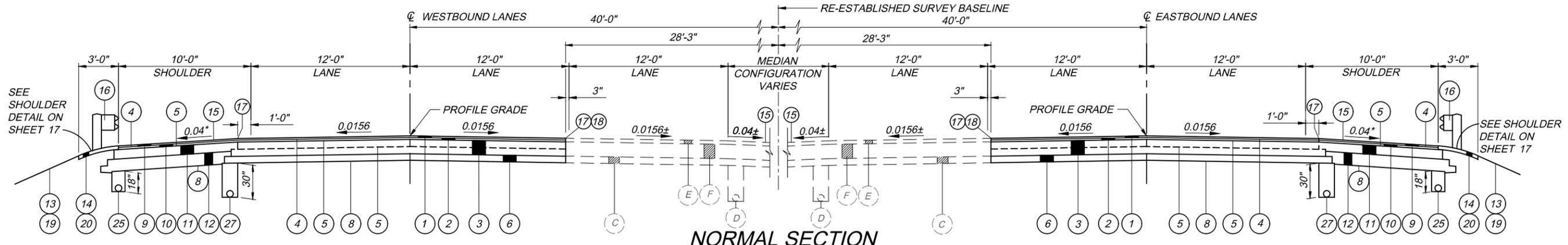
ENGINEERS SEAL:

SIGNED *Anthony D. Park*
DATE: 12/3/19

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES
CALL TWO WORKING DAYS
BEFORE YOU DIG
CALL
1-800-362-2764
OR 811 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY
OHIO OIL & GAS PRODUCERS UNDERGROUND
PROTECTION SERVICE CALL: 614-715-2984 OR 811
OTIC DIVISION TRADES SUPERVISOR:
440-971-2731 - WEST (M.P. 0.0 - M.P. 126.4)
440-971-2781 - EAST (M.P. 126.4 - M.P. 241.26)

DESIGN CONTRACT:	71-18-02		
PLAN PREPARED BY:			
NO.	REVISIONS	BY	DATE

NO REVISION BY DATE
1 ADDENDUM NO. 3 JMP 1/27/2020



NORMAL SECTION

WESTBOUND		EASTBOUND	
STA 1312+50.00 TO STA 1328+22.81 =	1,572.81 L.F.	STA 1312+50.00 TO STA 1328+67.61 =	1,617.61 L.F.
STA 1330+22.17 TO STA 1335+13.22 =	491.05 L.F.	STA 1330+67.97 TO STA 1335+70.29 =	502.32 L.F.
STA 1337+13.01 TO STA 1384+16.60 (BACK) =	4,703.59 L.F.	STA 1337+70.07 TO STA 1384+16.60 (BACK) =	4,646.53 L.F.
STA EQ: 1384+16.60 (BACK) = STA 0+30.00 (AHEAD)		STA EQ: 1384+16.60 (BACK) = STA 0+30.00 (AHEAD)	
STA 0+30.00 (AHEAD) TO STA 14+40.00 (BACK) =	1,410.00 L.F.	STA 0+30.00 (AHEAD) TO STA 14+40.00 (BACK) =	1,410.00 L.F.
STA EQ: STA 14+40.00 (BACK) = STA 14+50.00 (AHEAD)		STA EQ: STA 14+40.00 (BACK) = STA 14+50.00 (AHEAD)	
STA 14+50.00 (AHEAD) TO STA 81+00.00 =	6,650.00 L.F.	STA 14+50.00 (AHEAD) TO STA 81+00.00 =	6,650.00 L.F.
STA 100+00.00 TO STA 118+40.00 =	1,840.00 L.F.	STA 100+00.00 TO STA 118+40.00 =	1,840.00 L.F.
STA EQ: 118+40.00 (BACK) = STA 119+00.00 (AHEAD)		STA EQ: 118+40.00 (BACK) = STA 119+00.00 (AHEAD)	
STA 119+00.00 TO STA 125+00.00 =	600 L.F.	STA 119+00.00 TO STA 125+00.00 =	600 L.F.

ITEM LEGEND

- 1 ITEM SP 404 ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG 76-22 (FR) (T=1-1/2")
- 2 ITEM SP 402 ASPHALT CONCRETE INTERMEDIATE COURSE OR RECYCLED ASPHALT CONCRETE INTERMEDIATE COURSE, PG 76-22 (FR) (T=1-3/4")
- 3 ITEM SP 302 ASPHALT CONCRETE BASE, PG 64-22 (T=12") (2 EQUAL LIFTS) (SEE NOTE 1)
- 4 ITEM 407 NON-TRACKING TACK COAT (APPLIED @ 0.06 GAL./S.Y.)
- 5 ITEM 407 NON-TRACKING TACK COAT (APPLIED @ 0.075 GAL./S.Y.)
- 6 ITEM SP 304 AGGREGATE BASE (T=6")
- 7 ITEM SP 304 AGGREGATE BASE (VAR. THICKNESS) (WITHOUT GUARDRAIL)
- 8 ITEM 206 CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN, SEE SHEET 21.
- 9 ITEM SP 404 ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG 64-22 (T=1-1/2")
- 10 ITEM SP 402 ASPHALT CONCRETE INTERMEDIATE COURSE OR RECYCLED ASPHALT CONCRETE INTERMEDIATE COURSE, PG 64-22 (T=1-3/4")
- 11 ITEM SP 302 ASPHALT CONCRETE BASE, PG 64-22 (SHOULDER) (T=8")
- 12 ITEM SP 304 AGGREGATE BASE (SHOULDER) (T=10") (2 EQUAL LIFTS)
- 13 ITEM 659 SEEDING AND MULCHING
- 14 ITEM SP 627 STONE SHOULDER PROTECTION (WITH GUARDRAIL) (T=3")
- 15 ITEM SPECIAL SONIC NAP ALERT PATTERN (SNAP)
- 16 ITEM 606 GUARDRAIL, TYPE MGS WITH LONG STEEL POSTS
- 17 ITEM SP 404A JOINT SEALER (APPLIED TO VERTICAL FACE, SP 402 AND SP 404) (SEE NOTE 6)
- 18 ITEM 252 FULL DEPTH PAVEMENT SAWING
- 19 ITEM 659 TOPSOIL (T=4")
- 20 ITEM 209 LINEAR GRADING, AS PER PLAN
- 21 ITEM 526 NOT USED
- 22 ITEM SP 304 NOT USED
- 23 ITEM 204 NOT USED

- 24 ITEM 609 CURB, TYPE 4-A
- 25 ITEM SP 605 6" BASE PIPE UNDERDRAIN, WITH FABRIC WRAP (18")
- 26 ITEM SP 605 6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (24")
- 27 ITEM SP 605 6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (30")
- 28 ITEM 609 ASPHALT CONCRETE CURB, TYPE 1, PG 64-22
- 29 ITEM 622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN
- 30 ITEM 609 CURB, TYPE 4-C
- 31 ITEM SP 404 NOT USED
- 32 ITEM SP 403 NOT USED
- 33 ITEM 254 NOT USED
- 34 ITEM SP 404 NOT USED
- 35 ITEM 254 NOT USED
- 36 ITEM SP 404 NOT USED
- 37 ITEM 622 NOT USED
- 38 ITEM 622 CONCRETE BARRIER, SINGLE SLOPE, TYPE C
- 39 ITEM 622 NOT USED

EXISTING ITEM LEGEND

- (A) ASPHALT CONCRETE (T=5"±)
- (B) CONCRETE PAVEMENT (T=10"±)
- (C) AGGREGATE BASE (T=6"±)
- (D) 6" UNDERDRAIN
- (E) ASPHALT CONCRETE (T=3-1/4"±)
- (F) BITUMINOUS AGGREGATE BASE (T=12"±)
- (G) GUARDRAIL
- (H) CONCRETE BARRIER
- (J) AGGREGATE BASE (T=10 1/2"± AVERAGE)
- (K) ASPHALT CONCRETE (T=9"±)

COMMON NOTES

- NOTE 1: ITEM 407 - NON-TRACKING TACK COAT SHALL BE PLACED BETWEEN ALL LIFTS.
- NOTE 2: THE TRAVELED LANE PAVEMENT COMPOSITION SHALL EXTEND 1 FOOT INTO THE SHOULDER.
- NOTE 3: ASPHALT OR CONCRETE CURB SHALL BE SEALED PER THE REQUIREMENTS OF SP 400.
- NOTE 4: ALL EXPOSED SUBGRADE SHALL HAVE SUBGRADE STABILIZATION PERFORMED USING ITEM 206 - CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN. SEE GENERAL NOTES SHEET 21.
- NOTE 5: FOR PAVEMENT AND SHOULDER WIDTHS AND CROSS SLOPES, SEE PAVEMENT ELEVATION TABLES ON SHEETS 365 - 394.
- NOTE 6: JOINT SEALER SHALL BE APPLIED TO ALL CONSTRUCTION JOINTS.

*VARIES
 0.040 TO 0.0156 - STA 1327+79.93 TO STA 1328+79.93 RT
 0.0156 TO 0.040 - STA 1330+79.29 TO STA 1331+79.29 RT
 0.040 TO 0.0156 - STA 1334+85.98 TO STA 1335+85.98 RT
 0.0156 TO 0.040 - STA 1337+85.76 TO STA 1338+85.76 RT

0.040 TO 0.0156 - STA 1327+10.49 TO STA 1328+10.49 LT
 0.0156 TO 0.040 - STA 1330+09.85 TO STA 1331+09.85 LT
 0.040 TO 0.0156 - STA 1333+97.53 TO STA 1334+97.53 LT
 0.0156 TO 0.040 - STA 1336+97.32 TO STA 1337+97.32 LT

H:\2018\180192\DWG\SHEETS-5 MILES.C - GENERAL SUMMARY-5 MILES.DWG - 1 - 1/24/2020 2:44:38 PM - KEVIN ABRAMS

SHEET NUMBER													ITEM	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
19	20	22	173	174	175	176	178	181	183	396	397	PIS-1						
ROADWAY																		
1														201	1	LS	CLEARING AND GRUBBING, AS PER PLAN	19
	119													201	119	EACH	TREE REMOVED, 18" SIZE	
	58													201	58	EACH	TREE REMOVED, 30" SIZE	
	6													201	6	EACH	TREE REMOVED, 48" SIZE	
							44							202	44	EACH	HEADWALL REMOVED	
							2,104							202	2,104	FT	PIPE REMOVED, 24" AND UNDER	
							(135) A				145			202	(280) A	FT	PIPE REMOVED, OVER 24"	
							26							202	26	EACH	CATCH BASIN OR INLET REMOVED	
					49,266									202	49,266	FT	FENCE REMOVED	
		13,057												202	13,057	FT	GUARDRAIL REMOVED, AS PER PLAN	20
								(176,957) A		752				202	(177,709) A	SY	PAVEMENT REMOVED, AS PER PLAN	20
			386											202	386	FT	CONCRETE BARRIER REMOVED	
											2			202	2	EACH	STRUCTURE REMOVED	
10														202	10	CY	PORTIONS OF STRUCTURES REMOVED, AS PER PLAN	20
		200												202	200	SY	REMOVAL MISC.: CONCRETE CHANNEL REMOVED	22
							1							202	1	EACH	REMOVAL MISC.: STEEL PLATE REMOVED	22
												1		202	1	LS	REMOVAL MISC.: TEMPORARY SHEETING REMOVED	22
							124							SPECIAL	124	FT	PIPE CLEANOUT, 24" DIA AND UNDER	24
							662							SPECIAL	662	FT	PIPE CLEANOUT, 27" TO 48"	24
						83,967		(141) A						203	(84,108) A	CY	EXCAVATION	
						16,539								203	16,539	CY	EMBANKMENT, AS PER PLAN	20
	1,800													203	1,800	CY	ROADWAY EXCAVATION AND EMBANKMENT	20
														203	19,812	CY	EXCAVATION INCLUDING EMBANKMENT CONSTRUCTION, AS PER PLAN	PIS-1
														203	9,906	CY	BORROW	
														203	145	CY	GRANULAR MATERIAL, TYPE C	
														203	1,873	CY	GRANULAR EMBANKMENT, AS PER PLAN (SHEAR KEY)	PIS-1
														203	60	CY	GRANULAR EMBANKMENT, AS PER PLAN (NO. 8 AGGREGATE)	PIS-1
														(SPECIAL)	(1,985) A	CY	LIMESTONE SAND	(2) (PIS-1)
		227												204	227	SY	SUBGRADE COMPACTION	
		178												204	178	CY	EXCAVATION	
														204	600	SY	GEOTEXTILE FABRIC, 712.09, TYPE A	
														204	4,795	SY	GEOTEXTILE FABRIC, TYPE B	
		227												204	227	SY	GEOTEXTILE FABRIC, 712.09, TYPE D	
		216,545												206	216,545	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP, AS PER PLAN	21
		12,000												206	12,000	SY	CEMENT STABILIZED SUBGRADE, 16 INCHES DEEP	
		10,280												206	10,280	TON	CEMENT	
		13,470												206	13,470	GAL	CURING COAT, AS PER PLAN	21
		140												206	140	HOUR	TEST ROLLING	
		6,785												206	6,785	SY	PRE-PULVERIZATION, 10 INCHES DEEP, AS PER PLAN	21
		6,785												206	6,785	SY	FULL-DEPTH RECLAMATION, 12 INCHES, AS PER PLAN	21
		2,040												206	2,040	GAL	FULL DEPTH RECLAMATION CURING COAT, AS PER PLAN	21
									42,608					209	42,608	FT	LINER GRADING, AS PER PLAN	20
	2,000													209	2,000	FT	DITCH CLEANOUT, AS PER PLAN	20
		178												SP 304	178	CY	GRANULAR MATERIAL	
			10,135											606	10,135	FT	GUARDRAIL, TYPE MGS, WITH LONG STEEL POSTS	
			15											606	15	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
			1											606	1	EACH	ANCHOR ASSEMBLY, MGS TYPE A	
			11											606	11	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, WITH LONG STEEL POSTS	
			7											606	7	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
			15											SP 606A	15	EACH	ANCHOR ASSEMBLY, MGS TYPE E	
			2											SP 606B	2	EACH	IMPACT ATTENUATOR, TYPE 2 (BI-DIRECTIONAL)	

DESIGN AGENCY 	BY DATE JMP 11/25/20 JMP 1/27/20
REVISIONS ADDENDUM NO. 2 ADDENDUM NO. 3	NO. 1 2 3
CHECKED W.D.B. IN CHARGE	NO. 1 2 3
DESIGNED J.M.P. DRAWN K.P.A.	NO. 1 2 3
GENERAL SUMMARY	
PROJECT 39-20-02A	
DATE: 12/3/19	
1 / 4	
169 505	

ODOT ITEM REFERENCES

ALL REFERENCES TO ODOT ITEMS REFER TO THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, 2019 EDITION.

UTILITIES NOTIFICATION AND UNDERGROUND UTILITIES

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INCLUDE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE REGISTERED UTILITY PROTECTION SERVICE, AND THE OWNERS OF ANY UNDERGROUND UTILITY FACILITY IN THE AREA FOR UTILITY STAKING. THE MARKING OR LOCATING OF UTILITIES THROUGH THE UTILITY PROTECTION SERVICE SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF PLANNED CONSTRUCTION.

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE EXISTING UNDERGROUND LIGHTING OR OTIC COMMUNICATION FACILITIES, THE CONTRACTOR SHALL NOTIFY:

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION
682 PROSPECT ST.
BEREA, OHIO, 44017
440-234-2081

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION-TYPE DEVICES SHALL NOT BE OPERATED BETWEEN THE HOURS OF 9:00 P.M. AND 6:00 A.M. IN ADDITION, ANY SUCH DEVICE SHALL NOT BE OPERATED AT ANY TIME IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY PRESENT DURING THE EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

CONSTRUCTION SPECIFICATIONS

THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS DATED JANUARY 1, 2019 AND THE OHIO TURNPIKE COMMISSION SPECIAL PROVISIONS CONTAINED IN THE CONTRACT DOCUMENTS SHALL GOVERN THIS PROJECT.

LIGHT POLE OFFSET

THE OFFSET FROM THE EDGE OF THE SHOULDER TO THE CENTER OF A CONVENTIONAL LIGHT POLE SHALL BE 8.5 FEET (WITHOUT GUARDRAIL). THE OFFSET FROM THE FACE OF GUARDRAIL TO THE CENTER OF A CONVENTIONAL LIGHT POLE SHALL BE 6.5 FEET. IF A CONFLICT ARISES, THE LOCATION WILL BE REVIEWED BY THE CHIEF ENGINEER. IF ANY ADJUSTMENTS ARE REQUIRED, THE ADJUSTMENTS SHALL BE APPROVED BY THE CHIEF ENGINEER.

UNDERDRAINS FOR PULL BOXES

REFERENCE IS MADE TO ODOT STANDARD DRAWING HL-30.11 FOR DETAILS OF DRAINING PULL BOXES. UNDERDRAINS FOR PULL BOXES SHALL BE USED AS DIRECTED BY THE CHIEF ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED APPROXIMATELY 20 FEET. AN ANIMAL GUARD SHALL BE INCLUDED AT THE OUTLET END OF THE DRAIN. AN ESTIMATED QUANTITY OF C&MS ITEM 611, 4" CONDUIT, TYPE E IS INCLUDED AT EACH PULL BOX FOR THIS PURPOSE.

HIGH VOLTAGE DIRECT CURRENT TEST

A HIGH VOLTAGE DIRECT CURRENT TEST, AS DESCRIBED IN ODOT SUPPLEMENTAL SPECIFICATION 1003 SHALL BE PERFORMED ON ALL DISTRIBUTION CABLE AND DUCT CABLE SYSTEMS TO BE INSTALLED ON THIS PROJECT. THE TEST SHALL NOT BE PERFORMED UNTIL AFTER ALL NEW GUARDRAIL, FENCE, DELINEATOR POSTS, SIGN SUPPORTS, ETC. IN THE IMMEDIATE VICINITY OF THE LOCATION OF THE CABLE RUN BEING TESTED, HAS BEEN COMPLETE.

REMOVAL ITEMS

ALL ITEMS SLATED FOR REMOVAL SHALL BE DETERMINED BY THE ENGINEER TO BE RETAINED FOR STORAGE OR DISPOSED OF. ALL ITEMS DESIGNATED TO BE RETAINED FOR STORAGE SHALL BE PROPERLY STORED ON THE PROJECT SITE FOR PICK-UP BY THE OTIC. ITEMS DESIGNATED FOR DISPOSAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF OF THE PROJECT SITE.

PAYMENT WILL BE INCLUDED IN THE UNIT PRICE BID UNDER THE RESPECTIVE C&MS REMOVAL ITEM FOR ITEM REMOVED, WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM OF WORK IN A SATISFACTORY MANNER.

LIGHTING DESIGN REQUIREMENTS

THE CANDLE POWER DISTRIBUTION MUST BE IN ACCORDANCE WITH THE 2005 AASHTO ROADWAY LIGHTING GUIDE. DESIGN CRITERIA MUST BE AS FOLLOWS:

TOLL PLAZAS: THE AVERAGE FOOTCANDLES MUST NOT BE LESS THAN 1.0 WITH 1.2 PREFERRED, MINIMUM FOOTCANDLES MUST NOT BE LESS THAN 0.3, AND THE UNIFORMITY RATIO (AVERAGE TO MINIMUM FOOTCANDLES) MUST NOT EXCEED 4:1.

USE AN APPROVED LIGHTING PROGRAM TO COMPLETE THE CALCULATIONS. OTIC PREFERS VISUAL.

SUBMITTED CALCULATIONS MUST CLEARLY IDENTIFY THE FIXTURE BEING SUBMITTED, THE IES PHOTOMETRIC FILE ASSOCIATED WITH THE FIXTURE, THE MOUNTING HEIGHT, SPACING AND OFFSET OF THE LUMINAIRE, THE LUMENS AND WATTAGE THE LUMINAIRE NEEDS TO OPERATE AT TO MEET THE LIGHTING REQUIREMENTS AND THE UNIFORMITY AND AVERAGE FOOTCANDLES.

ALL OF THE ABOVE INFORMATION MUST BE INCLUDED ON 11" X 17" PAPER ALONG WITH ISOFOOTCANDLE PLOTS SHOWING THE 0.25, 0.5 AND 1.0 FOOTCANDLE LOCATIONS. THIS SUBMITTAL MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF OHIO ALONG WITH WRITTEN NOTIFICATION THAT THIS LUMINAIRE MEETS THE DESIGN CRITERIA SPECIFIED ABOVE.

ITEM 625, TRENCH, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT C&MS 625.13, ITEM 625, TRENCH, AS PER PLAN SHALL INCLUDE HAND DIGGING A TRENCH WHERE UTILITY CONFLICTS EXIST IN ORDER TO PLACE THE CONDUIT OR CABLE WITHOUT DISTURBING EXISTING UNDERGROUND UTILITIES.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR C&MS ITEM 625, TRENCH, AS PER PLAN AND SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIAL AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM OF WORK.

ITEM 625, POWER SERVICE, AS PER PLAN

THE CONTRACTOR SHALL PROVIDE A LIGHTING CONTROL CABINET AND CONNECT THE ROADWAY LIGHTING CIRCUITS TO THE NEW TOLL PLAZA POWER SERVICE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

PAYMENT WILL BE MADE AT THE LUMP SUM PRICE BID FOR ITEM 625, "POWER SERVICE, AS PER PLAN" AND SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO COMPLETE THIS ITEM OF WORK.

ITEM 625, LUMINAIRE, CONVENTIONAL, 388W, LED, TYPE II, MVOLT, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION SPECIFICATIONS, LUMINAIRES FOR CONVENTIONAL LIGHTING SHALL BE 388W, LED, TYPE II, MVOLT, AMERICAN ELECTRIC LIGHTING (AEL) AUTOBAHN SERIES CAT. #ATB2-80BLEDE15-MVOLT-R2-HSS OR EQUAL BY COOPER STREETWORKS, HOLOPHANE, **OR GENERAL ELECTRIC** AND WILL BE PROVIDED AND INSTALLED BY CONTRACTOR. PHOTOCCELL PROVIDED ON FIXTURE FOR CONTROL.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LUMINAIRE, CONVENTIONAL, 388W, LED, TYPE II, MVOLT, AS PER PLAN" FOR EACH LUMINAIRE INSTALLED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO PERFORM THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625, LUMINAIRE, CONVENTIONAL, 388W, LED, TYPE III, MVOLT, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION SPECIFICATIONS, LUMINAIRES FOR CONVENTIONAL LIGHTING SHALL BE 388W, LED, TYPE III, MVOLT, AMERICAN ELECTRIC LIGHTING (AEL) AUTOBAHN SERIES CAT. #ATB2-80BLEDE15-MVOLT-R3-HSS OR EQUAL BY COOPER STREETWORKS, HOLOPHANE, **OR GENERAL ELECTRIC** AND WILL BE PROVIDED AND INSTALLED BY CONTRACTOR. PHOTOCCELL PROVIDED ON FIXTURE FOR CONTROL.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LUMINAIRE, CONVENTIONAL, 388W, LED, TYPE IV, MVOLT, AS PER PLAN" FOR EACH LUMINAIRE INSTALLED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO PERFORM THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625, LUMINAIRE, CONVENTIONAL, 388W, LED, TYPE IV, MVOLT, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION SPECIFICATIONS, LUMINAIRES FOR CONVENTIONAL LIGHTING SHALL BE 388W, LED, TYPE IV, MVOLT, AMERICAN ELECTRIC LIGHTING (AEL) AUTOBAHN SERIES CAT. #ATB2-80BLEDE15-MVOLT-R4-HSS OR EQUAL BY COOPER STREETWORKS, HOLOPHANE, **OR GENERAL ELECTRIC** AND WILL BE PROVIDED AND INSTALLED BY CONTRACTOR. PHOTOCCELL PROVIDED ON FIXTURE FOR CONTROL.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LUMINAIRE, CONVENTIONAL, 388W, LED, TYPE IV, MVOLT, AS PER PLAN" FOR EACH LUMINAIRE INSTALLED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO PERFORM THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625, LUMINAIRE, CONVENTIONAL, 388W, LED, TYPE V, MVOLT, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION SPECIFICATIONS, LUMINAIRES FOR CONVENTIONAL LIGHTING SHALL BE 388W, LED, TYPE V, MVOLT, AMERICAN ELECTRIC LIGHTING (AEL) AUTOBAHN SERIES CAT. #ATB2-80BLEDE15-MVOLT-R5-HSS OR EQUAL BY COOPER STREETWORKS, HOLOPHANE, **OR GENERAL ELECTRIC** AND WILL BE PROVIDED AND INSTALLED BY CONTRACTOR. PHOTOCCELL PROVIDED ON FIXTURE FOR CONTROL.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LUMINAIRE, CONVENTIONAL, 388W, LED, TYPE V, MVOLT, AS PER PLAN" FOR EACH LUMINAIRE INSTALLED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO PERFORM THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625, LUMINAIRE, CONVENTIONAL, 214W, LED, TYPE III, MVOLT, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION SPECIFICATIONS, LUMINAIRES FOR CONVENTIONAL LIGHTING SHALL BE 214W, LED, TYPE III, MVOLT, AMERICAN ELECTRIC LIGHTING (AEL) AUTOBAHN SERIES CAT. #ATB2-80BLEDE85-MVOLT-R3 OR EQUAL BY COOPER STREETWORKS, HOLOPHANE, **OR GENERAL ELECTRIC** AND WILL BE PROVIDED AND INSTALLED BY CONTRACTOR. PHOTOCCELL PROVIDED ON FIXTURE FOR CONTROL.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LUMINAIRE, CONVENTIONAL, 214W, LED, TYPE III, MVOLT, AS PER PLAN" FOR EACH LUMINAIRE INSTALLED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO PERFORM THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

ITEM 625, LUMINAIRE, CONVENTIONAL, 83W, LED, TYPE III, MVOLT, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ODOT'S CONSTRUCTION SPECIFICATIONS, LUMINAIRES FOR CONVENTIONAL LIGHTING SHALL BE 83W, LED, TYPE III, MVOLT, AMERICAN ELECTRIC LIGHTING (AEL) AUTOBAHN SERIES CAT. #ATB2-80BLEDE85-MVOLT-R3 OR EQUAL BY COOPER STREETWORKS, HOLOPHANE, **OR GENERAL ELECTRIC** AND WILL BE PROVIDED AND INSTALLED BY CONTRACTOR. PHOTOCCELL PROVIDED ON FIXTURE FOR CONTROL.

PAYMENT WILL BE MADE AT THE UNIT PRICE BID UNDER CMS ITEM 625, "LUMINAIRE, CONVENTIONAL, 83W, LED, TYPE III, MVOLT, AS PER PLAN" FOR EACH LUMINAIRE INSTALLED WHICH SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS AND INCIDENTALS REQUIRED TO PERFORM THIS ITEM IN A SATISFACTORY AND WORKMANLIKE MANNER.

DESIGNED	ELE	DRAWN	ELE/ISS	CHECKED	W.D.B.	NO.	REVISIONS	BY	DATE
				IN CHARGE	W.D.B.	1	ADDENDUM NO. 3	JMP	10/20/20
LIGHTING GENERAL NOTES									
PROJECT 39-20-02A									
DATE: 12/31/19									
1 / 11									
478									
505									

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

H:\2018\180192\DWG\SHEETS-5 MILES.C - LMT - 1/27/2020 4:50:10 PM - JIM COBB

CHECKING PRINT

CHECKED: _____ DATE: _____ CORRECTED: _____ DATE: _____
 BACKCHECKED: _____ DATE: _____ APPROVED: _____ DATE: _____

CONSTRUCTION OF THE TP 49 TOLL COLLECTION FACILITY WILL INVOLVE TWO SEPARATE CONTRACTS AS FOLLOWS:

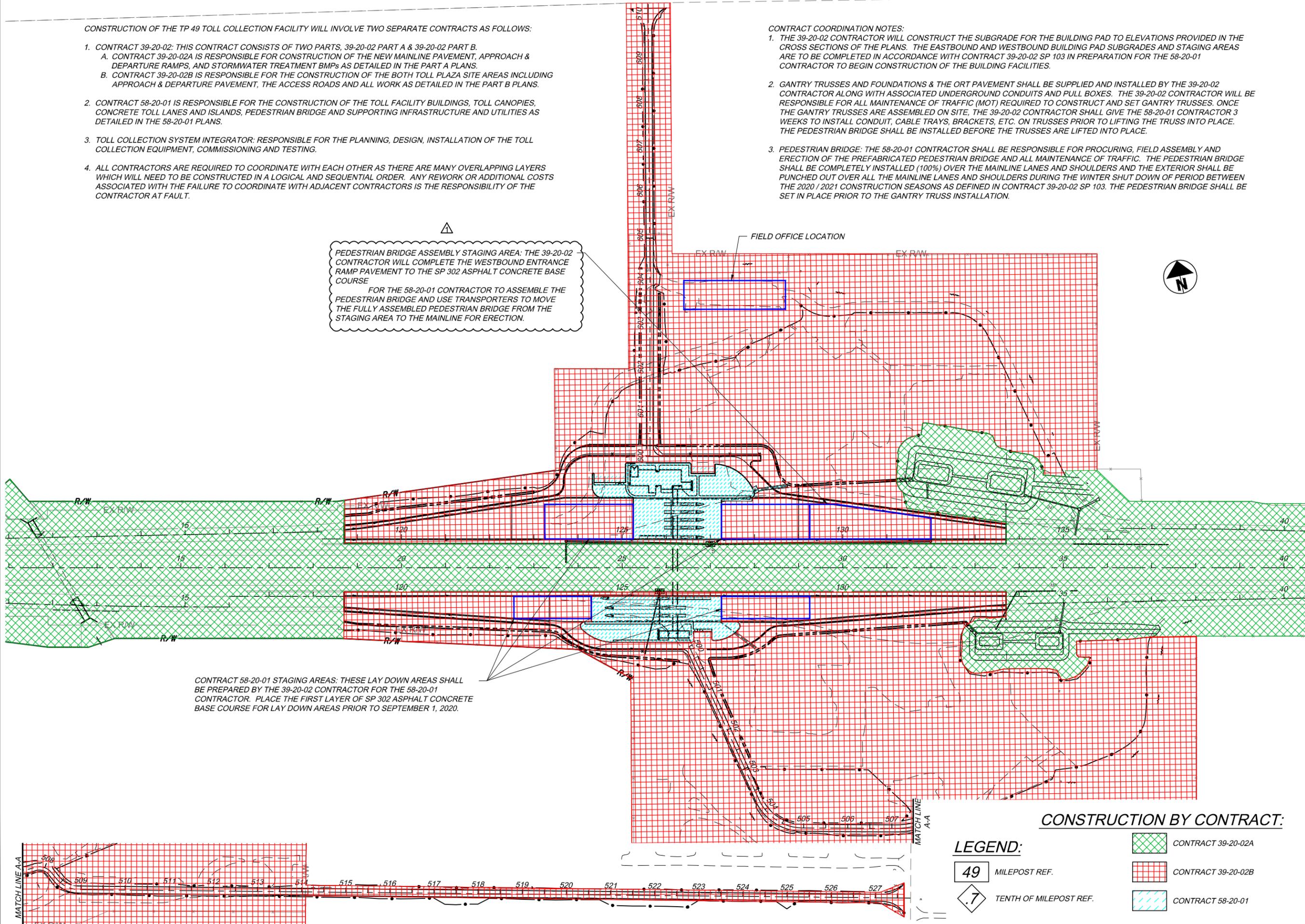
- CONTRACT 39-20-02: THIS CONTRACT CONSISTS OF TWO PARTS, 39-20-02 PART A & 39-20-02 PART B.
 - CONTRACT 39-20-02A IS RESPONSIBLE FOR CONSTRUCTION OF THE NEW MAINLINE PAVEMENT, APPROACH & DEPARTURE RAMPS, AND STORMWATER TREATMENT BMPs AS DETAILED IN THE PART A PLANS.
 - CONTRACT 39-20-02B IS RESPONSIBLE FOR THE CONSTRUCTION OF THE BOTH TOLL PLAZA SITE AREAS INCLUDING APPROACH & DEPARTURE PAVEMENT, THE ACCESS ROADS AND ALL WORK AS DETAILED IN THE PART B PLANS.
- CONTRACT 58-20-01 IS RESPONSIBLE FOR THE CONSTRUCTION OF THE TOLL FACILITY BUILDINGS, TOLL CANOPIES, CONCRETE TOLL LANES AND ISLANDS, PEDESTRIAN BRIDGE AND SUPPORTING INFRASTRUCTURE AND UTILITIES AS DETAILED IN THE 58-20-01 PLANS.
- TOLL COLLECTION SYSTEM INTEGRATOR: RESPONSIBLE FOR THE PLANNING, DESIGN, INSTALLATION OF THE TOLL COLLECTION EQUIPMENT, COMMISSIONING AND TESTING.
- ALL CONTRACTORS ARE REQUIRED TO COORDINATE WITH EACH OTHER AS THERE ARE MANY OVERLAPPING LAYERS WHICH WILL NEED TO BE CONSTRUCTED IN A LOGICAL AND SEQUENTIAL ORDER. ANY REWORK OR ADDITIONAL COSTS ASSOCIATED WITH THE FAILURE TO COORDINATE WITH ADJACENT CONTRACTORS IS THE RESPONSIBILITY OF THE CONTRACTOR AT FAULT.

CONTRACT COORDINATION NOTES:

- THE 39-20-02 CONTRACTOR WILL CONSTRUCT THE SUBGRADE FOR THE BUILDING PAD TO ELEVATIONS PROVIDED IN THE CROSS SECTIONS OF THE PLANS. THE EASTBOUND AND WESTBOUND BUILDING PAD SUBGRADES AND STAGING AREAS ARE TO BE COMPLETED IN ACCORDANCE WITH CONTRACT 39-20-02 SP 103 IN PREPARATION FOR THE 58-20-01 CONTRACTOR TO BEGIN CONSTRUCTION OF THE BUILDING FACILITIES.
- GANTRY TRUSSES AND FOUNDATIONS & THE ORT PAVEMENT SHALL BE SUPPLIED AND INSTALLED BY THE 39-20-02 CONTRACTOR ALONG WITH ASSOCIATED UNDERGROUND CONDUITS AND PULL BOXES. THE 39-20-02 CONTRACTOR WILL BE RESPONSIBLE FOR ALL MAINTENANCE OF TRAFFIC (MOT) REQUIRED TO CONSTRUCT AND SET GANTRY TRUSSES. ONCE THE GANTRY TRUSSES ARE ASSEMBLED ON SITE, THE 39-20-02 CONTRACTOR SHALL GIVE THE 58-20-01 CONTRACTOR 3 WEEKS TO INSTALL CONDUIT, CABLE TRAYS, BRACKETS, ETC. ON TRUSSES PRIOR TO LIFTING THE TRUSS INTO PLACE. THE PEDESTRIAN BRIDGE SHALL BE INSTALLED BEFORE THE TRUSSES ARE LIFTED INTO PLACE.
- PEDESTRIAN BRIDGE: THE 58-20-01 CONTRACTOR SHALL BE RESPONSIBLE FOR PROCURING, FIELD ASSEMBLY AND ERECTION OF THE PREFABRICATED PEDESTRIAN BRIDGE AND ALL MAINTENANCE OF TRAFFIC. THE PEDESTRIAN BRIDGE SHALL BE COMPLETELY INSTALLED (100%) OVER THE MAINLINE LANES AND SHOULDERS AND THE EXTERIOR SHALL BE PUNCHED OUT OVER ALL THE MAINLINE LANES AND SHOULDERS DURING THE WINTER SHUT DOWN OF PERIOD BETWEEN THE 2020 / 2021 CONSTRUCTION SEASONS AS DEFINED IN CONTRACT 39-20-02 SP 103. THE PEDESTRIAN BRIDGE SHALL BE SET IN PLACE PRIOR TO THE GANTRY TRUSS INSTALLATION.

PEDESTRIAN BRIDGE ASSEMBLY STAGING AREA: THE 39-20-02 CONTRACTOR WILL COMPLETE THE WESTBOUND ENTRANCE RAMP PAVEMENT TO THE SP 302 ASPHALT CONCRETE BASE COURSE
 FOR THE 58-20-01 CONTRACTOR TO ASSEMBLE THE PEDESTRIAN BRIDGE AND USE TRANSPORTERS TO MOVE THE FULLY ASSEMBLED PEDESTRIAN BRIDGE FROM THE STAGING AREA TO THE MAINLINE FOR ERECTION.

CONTRACT 58-20-01 STAGING AREAS: THESE LAY DOWN AREAS SHALL BE PREPARED BY THE 39-20-02 CONTRACTOR FOR THE 58-20-01 CONTRACTOR. PLACE THE FIRST LAYER OF SP 302 ASPHALT CONCRETE BASE COURSE FOR LAY DOWN AREAS PRIOR TO SEPTEMBER 1, 2020.



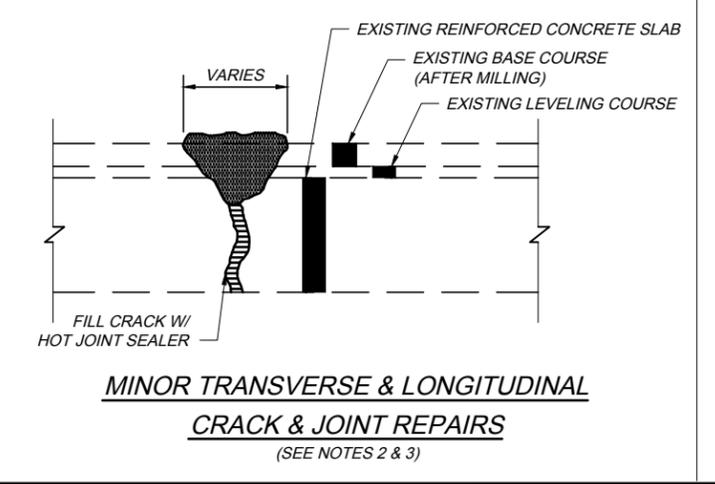
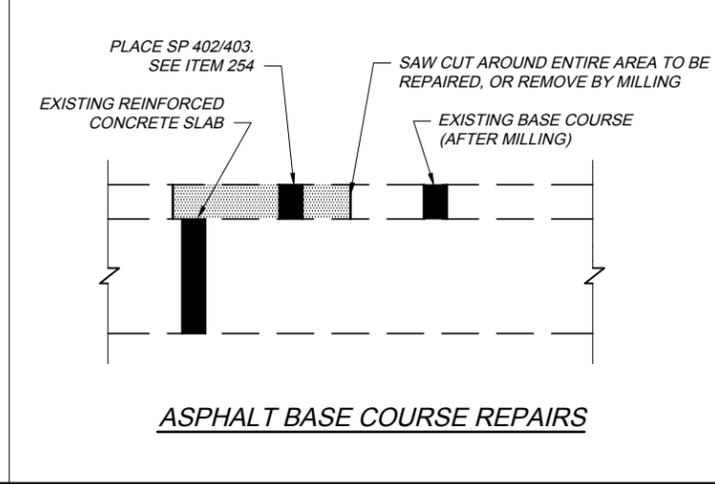
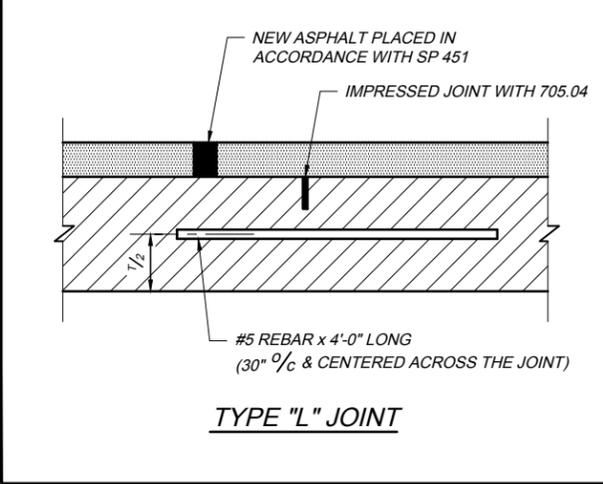
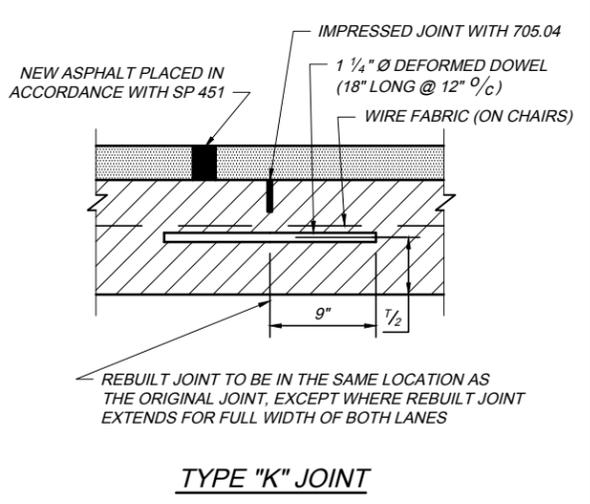
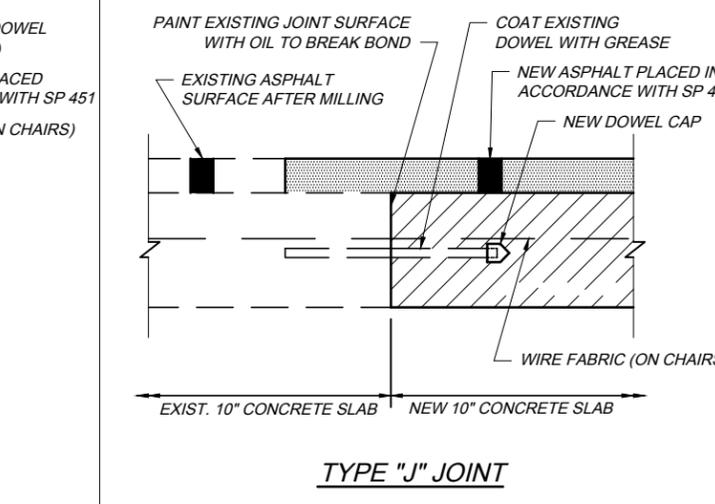
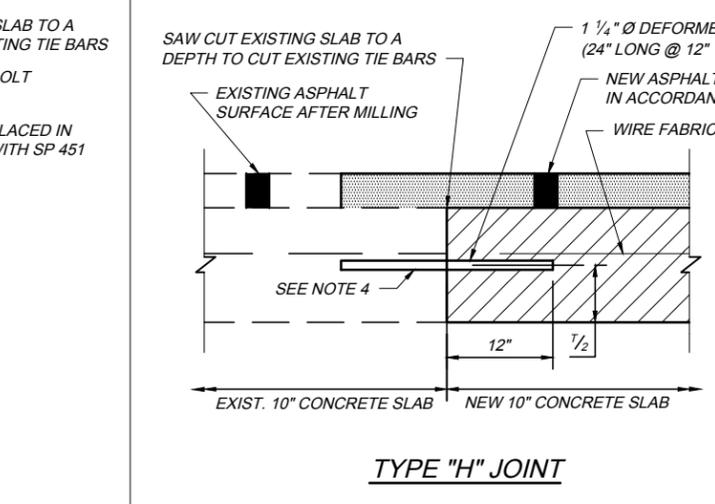
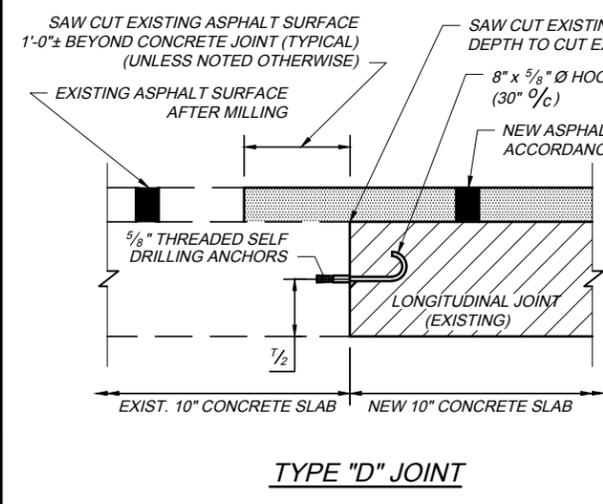
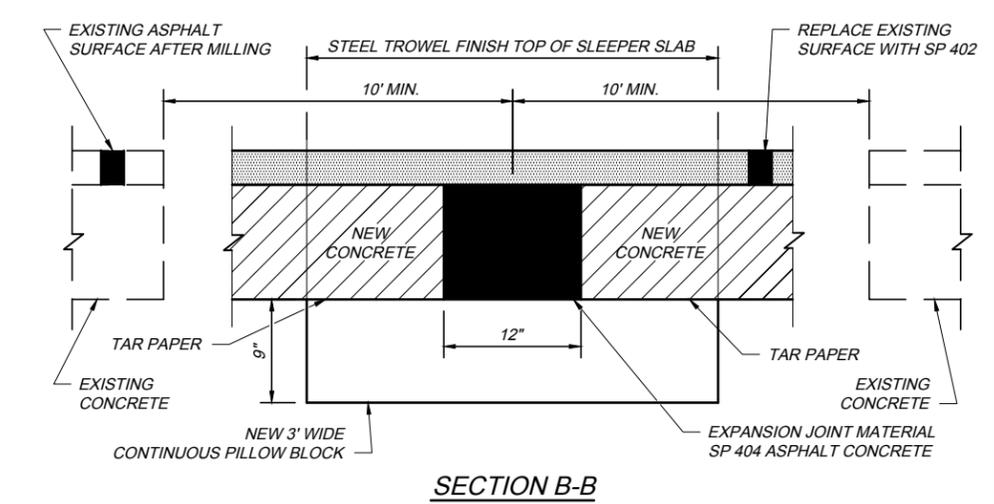
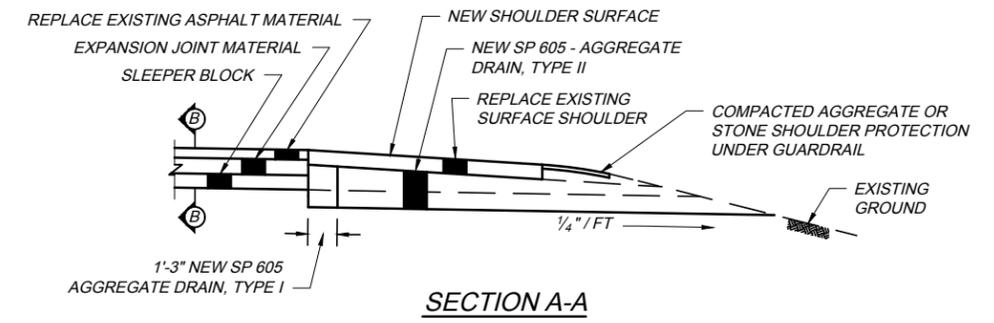
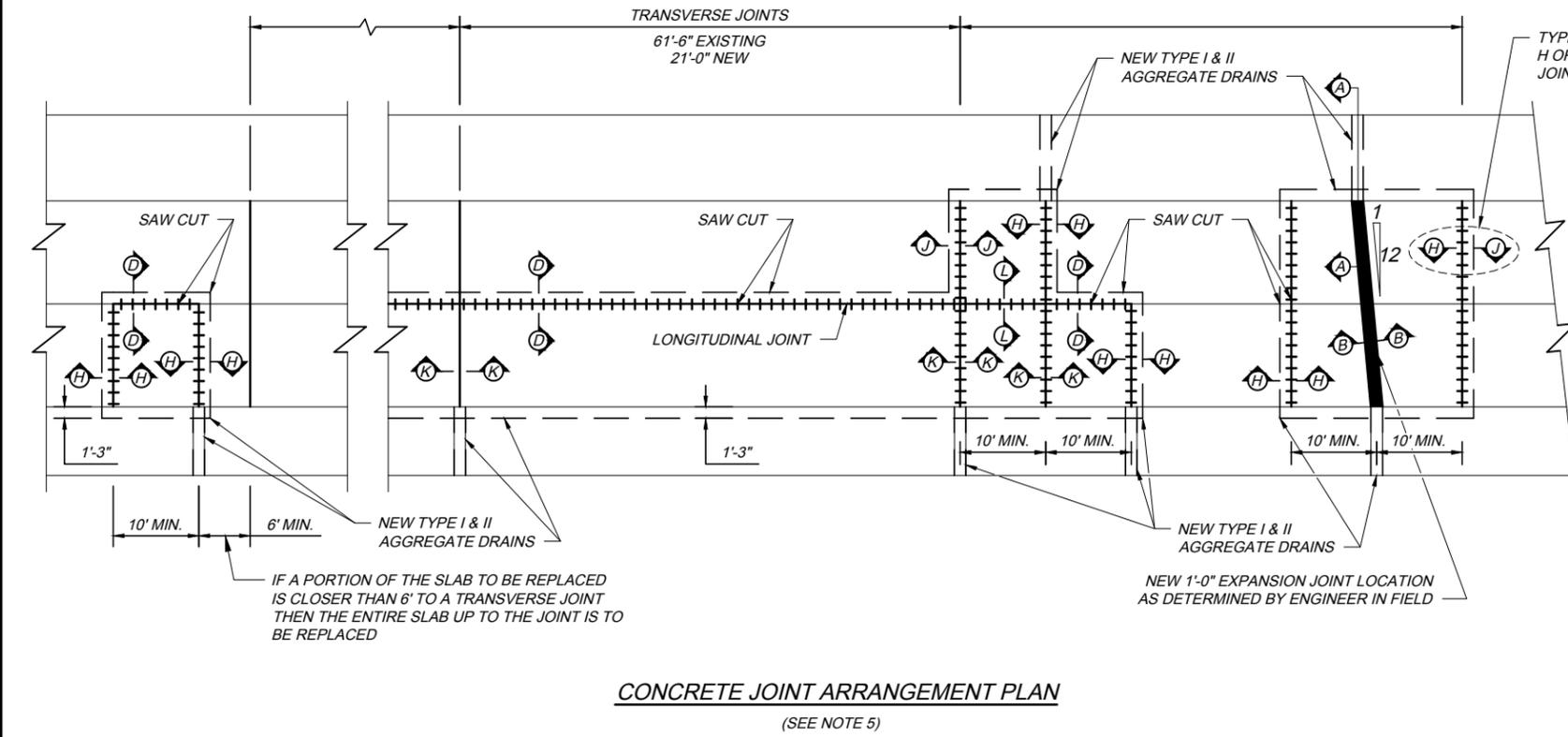
LEGEND:

- 49 MILEPOST REF.
- .7 TENTH OF MILEPOST REF.
- CONTRACT 39-20-02A
- CONTRACT 39-20-02B
- CONTRACT 58-20-01

CONSTRUCTION BY CONTRACT:

nnmmGM001.dwg: 1/23/20 - 3:45pm

PROJECT 39-20-02B		CONTRACT COORDINATION PLANS		DESIGN AGENCY	
DATE: 12/20/2019		SITE PLAN		JACOBS	
TP-49		LUCAS COUNTY		10101 JAMES MARBLE, P.FLOOR BOSTON, MASS 02118 OFFICE 617.262.8222	
1 / 5		ADDENDUM NO. 3		BY DATE	
9		NO. 1		AMS 1/12/20	
59		CHECKED CSM		DESIGNED AMS	
		IN CHARGE CSM		DRAWN AMS	



- NOTES:**
- FOR DETAILS, NOT SHOWN SEE ODOT STANDARD DRAWINGS BP-1.1, BP-2.1 & BP-2.2
 - FOR CRACK AND JOINT SPECIAL PROVISION, SEE SP 202B.
 - DETAIL OF LONGITUDINAL PAVEMENT SHOULDER JOINT SIMILAR.
 - GROUT ANCHORING SHALL BE IN ACCORDANCE WITH CMS 510 USING NON-SHRINK, NON-METALLIC GROUT THAT CONFORMS TO 705.20. THE GROUT SHALL FIRMLY ANCHOR THE DOWEL WITHIN 30 MINUTES. THE RIGID REPLACEMENT SHALL NOT BE PLACED UNTIL THE GROUT AROUND THE DOWEL HAS HARDENED.
 - A NEW TYPE II DRAIN MAY ONLY BE REQUIRED AT ONE END OF THE EXPANSION JOINT OR SLAB REPLACEMENT AS DICTATED BY DRAINAGE CONDITIONS IN THE FIELD

STANDARD DRAWING DATE: OCTOBER 20, 2017

CRACK AND JOINT DETAILS AT FULL DEPTH CONCRETE REPAIRS

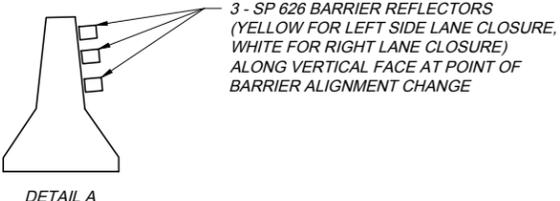
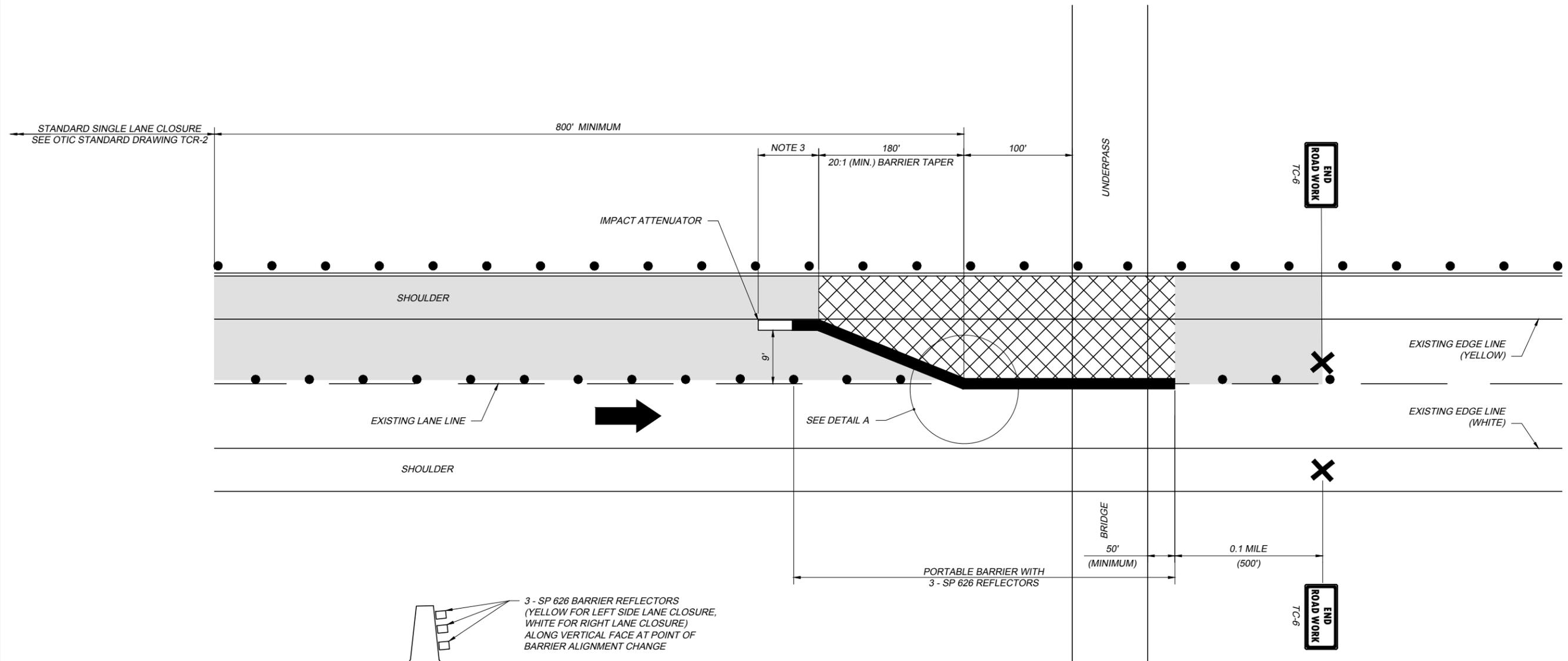
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OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

CJ-1 2017.10.20.DWG; 10/25/17 - 4:24pm

TCR-14 2019.12.31.DWG; 12/19/19 - 2:23pm



SINGLE LANE CLOSURE WITH PORTABLE BARRIER (TPB)
 (LEFT LANE CLOSURE SHOWN, RIGHT LANE CLOSURE SIMILAR)
 (TWO LANE SECTION SHOWN, THREE LANE CLOSURE SIMILAR)

NOTES:

1. IMPACT ATTENUATOR FROM CURRENT ODOT APPROVED LIST, ODOT TYPE 3 AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. THE IMPACT ATTENUATOR AND PORTABLE BARRIER NEEDED FOR THIS DETAIL SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR SP 614 - MAINTAINING TRAFFIC AND SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO SET, RESET, AND REMOVE THE IMPACT ATTENUATOR AND PORTABLE BARRIER.
3. DISTANCE BASED ON MANUFACTURER'S RECOMMENDATION.
4. SP 626 BARRIER REFLECTORS @ 10' SPACING (YELLOW FOR LEFT LANE CLOSURE, WHITE FOR RIGHT LANE CLOSURE)
5. IMPACT ATTENUATORS INSTALLED AT LOCATIONS OTHER THAN UNDERPASS BRIDGE (SHOWN) SHALL BE INSTALLED PER ODOT STANDARD CONSTRUCTION DRAWING MT - 101.75.

PROJECT NO. 39-20-02 - ESTIMATED QUANTITIES WORKSHEET

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
		39-20-02A - ROADWAY (Ref. Nos. 1 - 67)				
1	201	CLEARING AND GRUBBING, AS PER PLAN	1	LS		\$ -
2	201	TREE REMOVED, 18" SIZE	119	EACH		\$ -
3	201	TREE REMOVED, 30" SIZE	58	EACH		\$ -
4	201	TREE REMOVED, 48" SIZE	6	EACH		\$ -
5	202	HEADWALL REMOVED	44	EACH		\$ -
6	202	PIPE REMOVED, 24" AND UNDER	2,104	FT		\$ -
7	202	PIPE REMOVED, OVER 24"	280	FT		\$ -
8	202	CATCH BASIN OR INLET REMOVED	26	EACH		\$ -
9	202	FENCE REMOVED	49,266	FT		\$ -
10	202	GUARDRAIL REMOVED, AS PER PLAN	13,057	FT		\$ -
11	202	PAVEMENT REMOVED, AS PER PLAN	177,709	SY		\$ -
12	202	CONCRETE BARRIER REMOVED	386	FT		\$ -
13	202	STRUCTURE REMOVED	2	EACH		\$ -
14	202	PORTIONS OF STRUCTURES REMOVED, AS PER PLAN	10	CY		\$ -
15	202	REMOVAL MISC.: CONCRETE CHANNEL REMOVED	200	SY		\$ -
16	202	REMOVAL MISC.: STEEL PLATE REMOVED	1	EACH		\$ -
17	202	REMOVAL MISC.: TEMPORARY SHEETING REMOVED	1	LS		\$ -
18	SPECIAL	PIPE CLEANOUT, 24" DIA AND UNDER	124	FT		\$ -
19	SPECIAL	PIPE CLEANOUT, 27" TO 48"	662	FT		\$ -
20	203	EXCAVATION	84,108	CY		\$ -
21	203	EMBANKMENT, AS PER PLAN	16,539	CY		\$ -
22	203	ROADWAY EXCAVATION AND EMBANKMENT	1,800	CY		\$ -
23	203	EXCAVATION INCLUDING EMBANKMENT CONSTRUCTION, AS PER PLAN	19,812	CY		\$ -
24	203	BORROW	9,906	CY		\$ -
25	203	GRANULAR MATERIAL, TYPE C	145	CY		\$ -
26	203	GRANULAR EMBANKMENT, AS PER PLAN (SHEAR KEY)	1,873	CY		\$ -
27	203	GRANULAR EMBANKMENT, AS PER PLAN (NO. 8 AGGREGATE)	60	CY		\$ -
27A	SPECIAL	LIMESTONE SAND	1985	CY		\$ -
28	204	SUBGRADE COMPACTION	227	SY		\$ -
29	204	EXCAVATION	178	CY		\$ -
30	204	GEOTEXTILE FABRIC, 712.09, TYPE A	600	SY		\$ -
31	204	GEOTEXTILE FABRIC, TYPE B	4,795	SY		\$ -
32	204	GEOTEXTILE FABRIC, 712.09, TYPE D	227	SY		\$ -
33	206	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP, AS PER PLAN	216,545	SY		\$ -
34	206	CEMENT STABILIZED SUBGRADE, 16 INCHES DEEP	12,000	SY		\$ -
35	206	CEMENT	10,280	TON		\$ -
36	206	CURING COAT, AS PER PLAN	13,470	GAL		\$ -
37	206	TEST ROLLING	140	HOUR		\$ -
38	206	PRE-PULVERIZATION, 10 INCHES DEEP, AS PER PLAN	6,785	SY		\$ -
39	206	FULL-DEPTH RECLAMATION, 12 INCHES, AS PER PLAN	6,785	SY		\$ -
40	206	FULL DEPTH RECLAMATION CURING COAT, AS PER PLAN	2,040	GAL		\$ -
41	209	LINER GRADING, AS PER PLAN	42,608	FT		\$ -
42	209	DITCH CLEANOUT, AS PER PLAN	2,000	FT		\$ -

PROJECT NO. 39-20-02 - ESTIMATED QUANTITIES WORKSHEET

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
43	SP 304	GRANULAR MATERIAL	178	CY		\$ -
44	606	GUARDRAIL, TYPE MGS, WITH LONG STEEL POSTS	10,135	FT		\$ -
45	606	ANCHOR ASSEMBLY, MGS TYPE T	15	EACH		\$ -
46	606	ANCHOR ASSEMBLY, MGS TYPE A	1	EACH		\$ -
47	606	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1, WITH LONG STEEL POSTS	11	EACH		\$ -
48	606	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	7	EACH		\$ -
49	SP 606A	ANCHOR ASSEMBLY, MGS TYPE E	15	EACH		\$ -
50	SP 606B	IMPACT ATTENUATOR, TYPE 2 (BI-DIRECTIONAL)	2	EACH		\$ -
51	607	FENCE, TYPE 47, AS PER PLAN	45,569	FT		\$ -
52	607	FENCELINE SEEDING AND MULCHING	49,266	FT		\$ -
53	SP 607	FENCE, TYPE CL, AS PER PLAN	3,697	FT		\$ -
54	SPECIAL	FENCELINE CLEARING AND GRUBBING	49,266	FT		\$ -
55	609	ASPHALT CONCRETE CURB, TYPE 1, PG64-22	3,795	FT		\$ -
56	609	CURB, TYPE 4-C	135	FT		\$ -
57	622	CONCRETE BARRIER, SINGLE SLOPE, TYPE B-50, AS PER PLAN	227	FT		\$ -
58	622	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B-50, AS PER PLAN	4	EACH		\$ -
59	622	CONCRETE BARRIER, SINGLE SLOPE, TYPE C	3,248	FT		\$ -
60	622	CONCRETE BARRIER, END SECTION, TYPE C	2	EACH		\$ -
61	622	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE C	6	EACH		\$ -
62	622	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN	200	FT		\$ -
63	622	CONCRETE BARRIER, END SECTION, TYPE D, AS PER PLAN	14	EACH		\$ -
64	622	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D, AS PER PLAN	3	EACH		\$ -
65	SP 626	BARRIER REFLECTOR, TYPE A	175	EACH		\$ -
66	SP 626	BARRIER REFLECTOR, TYPE B	88	EACH		\$ -
67	861	GEOGRID FOR SUBGRADE STABILIZATION, AS PER PLAN, TENSAR TRIAX 160 GEOGRID	227	SY		\$ -
TOTAL - 39-20-02A - ROADWAY						\$ -

39-20-02A - EROSION CONTROL (Ref. Nos. 68-91)						
68	SP 113	SWPPP MANAGEMENT	1	LS		\$ -
69	601	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	224	CY		\$ -
70	601	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	800	CY		\$ -
71	601	TIED CONCRETE BLOCK MAT, TYPE 1	136	SY		\$ -
72	659	SOIL ANALYSIS TEST	10	EACH		\$ -
73	659	TOPSOIL	12,080	CY		\$ -
74	659	SEEDING AND MULCHING	108,911	SY		\$ -
75	659	REPAIR SEEDING AND MULCHING	4,970	SY		\$ -
76	659	INTER-SEEDING	4,970	SY		\$ -
77	659	COMMERCIAL FERTILIZER	13.42	TON		\$ -
78	659	LIME	20.54	ACRE		\$ -
79	659	WATER	537	MGAL		\$ -
80	659	MOWING, AS PER PLAN	21.60	MILE		\$ -
81	660	DITCH EROSION PROTECTION MAT TYPE A	3,506	SY		\$ -

PROJECT NO. 39-20-02 - ESTIMATED QUANTITIES WORKSHEET

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
82	671	EROSION CONTROL MAT, TYPE B	9,511	SY		\$ -
83	832	EROSION CONTROL	1	LS		\$ -
84	832	INLET PROTECTION	1,732	FT		\$ -
85	832	SLOPE DRAIN	200	FT		\$ -
86	832	CONSTRUCTION SEEDING AND MULCHING	183,714	SY		\$ -
87	832	PERIMETER FILTER FABRIC FENCE	8,580	FT		\$ -
88	832	FILTER FABRIC DITCH CHECK	3,840	FT		\$ -
89	832	CONSTRUCTION ENTRANCE	500	CY		\$ -
90	832	ROCK CHANNEL PROTECTION, TYPE C OR D, WITH FILTER	250	CY		\$ -
91	832	MISCELLANEOUS SEDIMENT REMOVAL	2,000	CY		\$ -
TOTAL - 39-20-02A - EROSION CONTROL						\$ -

39-20-02A - DRAINAGE (Ref. Nos. 92-119)						
92	602	CONCRETE MASONRY	3.4	CY		\$ -
93	SP 605	6" BASE PIPE UNDERDRAIN, WITH FABRIC WRAP (18")	42,536	FT		\$ -
94	SP 605	6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (24")	1,707	FT		\$ -
95	SP 605	6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (30")	48,269	FT		\$ -
96	SP 605	6" UNDERDRAIN OUTLET PIPE	2,425	FT		\$ -
97	SP 605	AGGREGATE DRAIN, TYPE 1, WITH FABRIC WRAP	200	FT		\$ -
98	SP 605	AGGREGATE DRAIN, TYPE 2, WITH FABRIC WRAP	200	FT		\$ -
99	SP 611	4" CONDUIT, TYPE E, 707.31 (TYPE CP)	255	FT		\$ -
100	SP 611	4" CONDUIT, TYPE F, 707.33	120	FT		\$ -
101	SP 611	12" CONDUIT, TYPE F, 707.33	1,112	FT		\$ -
102	SP 611	15" CONDUIT, TYPE B, 706.02	523	FT		\$ -
103	SP 611	18" CONDUIT, TYPE B, 706.02	80	FT		\$ -
104	SP 611	24" CONDUIT, TYPE B, 706.02	126	FT		\$ -
105	SP 611	30" CONDUIT, TYPE B, 706.02	217	FT		\$ -
106	SP 611	48" CONDUIT, TYPE A, 706.02, AS PER PLAN	136	FT		\$ -
107	SP 611	PRECAST REINFORCED CONCRETE OUTLET	81	EACH		\$ -
108	SP 611	CATCH BASIN, NO. CB-1	7	EACH		\$ -
109	SP 611	CATCH BASIN, NO. CB-1, AS PER PLAN	17	EACH		\$ -
110	SP 611	CATCH BASIN, NO. 6	2	EACH		\$ -
111	SP 611	CATCH BASIN, AS PER PLAN	1	EACH		\$ -
112	SP 611	INLET, NO. I-3C (ODOT)	4	EACH		\$ -
113	SP 611	WATER QUALITY BASIN	2	EACH		\$ -
114	SP 611	MANHOLE, NO. 3	2	EACH		\$ -
115	SPECIAL	12" PRECAST CONCRETE END SECTION	25	EACH		\$ -
116	SPECIAL	15" PRECAST CONCRETE END SECTION	18	EACH		\$ -
117	SPECIAL	18" PRECAST CONCRETE END SECTION	8	EACH		\$ -
118	SPECIAL	30" PRECAST CONCRETE END SECTION	3	EACH		\$ -
119	SPECIAL	48" PRECAST CONCRETE END SECTION	2	EACH		\$ -
TOTAL - 39-20-02A - DRAINAGE						\$ -

PROJECT NO. 39-20-02 - ESTIMATED QUANTITIES WORKSHEET

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
39-20-02A - PAVEMENT (Ref. Nos. 120-135)						
120	252	FULL DEPTH PAVEMENT SAWING	47,400	FT		\$ -
121	254	PAVEMENT PLANING, ASPHALT CONCRETE (VARIABLE DEPTH)	670	SY		\$ -
122	SP 302	ASPHALT CONCRETE BASE, PG64-22 (SHOULDER)	10,339	CY		\$ -
123	SP 302	ASPHALT CONCRETE BASE, PG64-22	46,100	CY		\$ -
124	SP 304	AGGREGATE BASE (SHOULDER)	16,913	CY		\$ -
125	SP 304	AGGREGATE BASE	24,009	CY		\$ -
126	SP 304	AGGREGATE BASE (VARIABLE THICKNESS)	2,439	CY		\$ -
127	SP 402	ASPHALT CONCRETE INTERMEDIATE COURSE OR RECYCLED ASPHALT CONCRETE INTERMEDIATE COURSE, PG64-22	2,811	CY		\$ -
128	SP 402	ASPHALT CONCRETE INTERMEDIATE COURSE OR RECYCLED ASPHALT CONCRETE INTERMEDIATE COURSE, PG76-22 (FR)	6,064	CY		\$ -
129	SP 404	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG64-22	2,421	CY		\$ -
130	SP 404	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG76-22 (FR)	5,217	CY		\$ -
131	SP 404A	JOINT SEALER	112,944	FT		\$ -
132	407	NON -TRACKING TACK COAT	36,570	GAL		\$ -
133	452	15-1/4" NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, CLASS QC 1, AS PER PLAN	752	SY		\$ -
134	SP 627	STONE SHOULDER PROTECTION	356	CY		\$ -
135	SPECIAL	SONIC NAP ALERT PATTERN	18.35	MILE		\$ -
TOTAL - 39-20-02A - PAVEMENT						\$ -

39-20-02A - MAINTENANCE OF TRAFFIC (Ref. Nos. 136-167)						
136	614	WORK ZONE CROSSOVER LIGHTING SYSTEM	2	EACH		\$ -
137	614	WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL)	8	EACH		\$ -
138	614	REPLACEMENT SIGN	20	EACH		\$ -
139	614	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC	300	CY		\$ -
140	614	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	1,900	DAY		\$ -
141	614	WORK ZONE LANE LINE, CLASS I, 642 PAINT (4" WHITE)	6.44	MILE		\$ -
142	614	WORK ZONE EDGE LINE, CLASS I, 642 PAINT (4" WHITE)	23.71	MILE		\$ -
143	614	WORK ZONE EDGE LINE, CLASS I, 642 PAINT (4" YELLOW)	17.36	MILE		\$ -
144	614	WORK ZONE EDGE LINE, CLASS I, 642 PAINT (6" WHITE)	1.19	MILE		\$ -
145	614	WORK ZONE EDGE LINE, CLASS I, 642 PAINT (6" YELLOW)	7.64	MILE		\$ -
146	614	WORK ZONE EDGE LINE, CLASS I, 642 PAINT (8" WHITE)	3.95	MILE		\$ -
147	614	WORK ZONE EDGE LINE, CLASS I, 642 PAINT (8" YELLOW)	3.95	MILE		\$ -
148	614	WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT (8" WHITE)	17,726	FT		\$ -
149	SP 614	ZONE PERSON	20,000	HOUR		\$ -
150	SP 614B	WORK ZONE WHITE LANE LINE, 4 INCH	0.08	MILE		\$ -
151	SP 614B	WORK ZONE WHITE EDGE LINE, 4 INCH	0.40	MILE		\$ -
152	SP 614B	WORK ZONE YELLOW EDGE LINE, 4 INCH	0.32	MILE		\$ -
153	SP 614B	WORK ZONE YELLOW EDGE LINE, 6 INCH	0.08	MILE		\$ -
154	SP 614C	REMOVAL OF PAVEMENT MARKING	94.78	MILE		\$ -
155	616	WATER	2,000	M GAL		\$ -
156	SP 621	RAISED PAVEMENT MARKER-STIMSONITE MODEL 101 LPCR	50	EACH		\$ -

PROJECT NO. 39-20-02 - ESTIMATED QUANTITIES WORKSHEET

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
157	SP 621	REPLACEMENT PRISMATIC RETRO-REFLECTOR	50	EACH		\$ -
158	SP 621	REPLACEMENT RAISED PAVEMENT MARKER CASTING-STIMSONITE MODEL 101 LPCR	50	EACH		\$ -
159	SP 622	32" PORTABLE BARRIER (WITH GLARE SCREEN)	1	LS		\$ -
160	SP 622	32" PORTABLE BARRIER (WITHOUT GLARE SCREEN)	1	LS		\$ -
161	SP 626	BARRIER REFLECTOR, TYPE A (WHITE)	50	EACH		\$ -
162	SP 626	BARRIER REFLECTOR, TYPE B	450	EACH		\$ -
163	SP 626A	CONSTRUCTION ZONE MARKER, ONE-WAY MODEL, WHITE	5,406	EACH		\$ -
164	SP 626A	CONSTRUCTION ZONE MARKER, ONE-WAY MODEL, YELLOW	2,792	EACH		\$ -
165	630	SIGNING, MISC.: ADDITIONAL SIGNS WITH SUPPORTS, AS DIRECTED BY THE CHIEF ENGINEER	500	SF		\$ -
166	SPECIAL	EXISTING CROSSOVER TO BE CLOSED / RE-OPENED	2	LS		\$ -
167	SPECIAL	SPEED MEASUREMENT MARKING, AS PER PLAN	10	EACH		\$ -
TOTAL - 39-20-02A - MAINTENANCE OF TRAFFIC						\$ -

39-20-02A - TRAFFIC CONTROL (Ref. Nos. 168-214)						
168	620	REMOVAL OF DELINEATOR	178	EACH		\$ -
169	620	DELINEATOR, POST MOUNTED, AS PER PLAN	178	EACH		\$ -
170	621	RAISED PAVEMENT MARKER REMOVED	470	EACH		\$ -
171	SP 621	REPLACEMENT PRISMATIC RETRO-REFLECTOR	550	EACH		\$ -
172	SP 621	RAISED PAVEMENT MARKER - STIMSONITE MODEL 101 LPCR	1,225	EACH		\$ -
173	625	GROUND ROD	32	EACH		\$ -
174	625	CONDUIT, 1 1/2", 725.051	960	FT		\$ -
175	625	CONDUIT, 4", 725.051	360	FT		\$ -
176	625	JUNCTION BOX, 12"x18"x24"	12	EACH		\$ -
177	SP 626	BARRIER REFLECTOR, TYPE B	540	EACH		\$ -
178	630	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4x7.7	70.3	FT		\$ -
179	630	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6x9	88.8	FT		\$ -
180	630	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10x12	82.3	FT		\$ -
181	630	BARRIER MOUNTED STRUCTURAL BEAM SUPPORT, W8x18	48.9	FT		\$ -
182	630	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	12	EACH		\$ -
183	630	BREAKAWAY STRUCTURAL BEAM CONNECTION	12	EACH		\$ -
184	630	SIGN ERECTED, FLAT SHEET, AS PER PLAN	183	EACH		\$ -
185	630	SIGN ERECTED, EXTRUSHEET, AS PER PLAN	40	EACH		\$ -
186	630	CONCRETE MEDIAN BARRIER OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.50, AS PER PLAN	4	EACH		\$ -
187	630	RIGID OVERHEAD SIGN SUPPORT FOUNDATION, AS PER PLAN	22	EACH		\$ -
188	630	OVERHEAD SIGN SUPPORT, TYPE 7.65, DESIGN 8	8	EACH		\$ -
189	630	OVERHEAD SIGN SUPPORT, TYPE 7.65, DESIGN 8, AS PER PLAN	4	EACH		\$ -
190	630	OVERHEAD SIGN SUPPORT, TYPE 12.30, DESIGN 8	2	EACH		\$ -
191	630	OVERHEAD SIGN SUPPORT, TYPE 12.30, DESIGN 10	5	EACH		\$ -
192	630	OVERHEAD SIGN SUPPORT, TYPE 16.21, DESIGN 13	1	EACH		\$ -
193	630	SIGN POST REFLECTOR	82	EACH		\$ -
194	630	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	5	EACH		\$ -
195	630	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	118	EACH		\$ -

PROJECT NO. 39-20-02 - ESTIMATED QUANTITIES WORKSHEET

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
196	630	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	94	EACH		\$ -
197	630	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	7	EACH		\$ -
198	630	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	12	EACH		\$ -
199	630	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-7.65	2	EACH		\$ -
200	630	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-12.30	5	EACH		\$ -
201	630	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-17.10	1	EACH		\$ -
202	630	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	18	EACH		\$ -
203	630	SIGNING, MISC.: MILEPOST AND TENTH MILEPOST SIGNS REMOVED	178	EACH		\$ -
204	630	SIGNING, MISC.: TENTH MILEPOST SIGN ERECTED	160	EACH		\$ -
205	631	SIGN LIGHTING MISC.: REMOVE SIGN LIGHTING AND SIGN SERVICE	2	EACH		\$ -
206	632	SAW CUTTING FOR PAVEMENT LOOPS	1,220	FT		\$ -
207	642	EDGE LINE, 6", TYPE 1	58.54	MILE		\$ -
208	642	LANE LINE, 6", TYPE 1	31.75	MILE		\$ -
209	642	DOTTED LINE, 6", TYPE 1	4,440	FT		\$ -
210	642	CHANNELIZING LINE, 12", TYPE 1	12,197	FT		\$ -
211	642	CHEVRON MARKING, 24", TYPE 1	970	FT		\$ -
212	642	LANE REDUCTION ARROW, TYPE 1	6	EACH		\$ -
213	642	WORD ON PAVEMENT, 96", TYPE 1	14	EACH		\$ -
214	SPECIAL	SPEED MEASUREMENT MARKING	20	EACH		\$ -
TOTAL - 39-20-02A - TRAFFIC CONTROL						\$ -

39-20-02A - LIGHTING (Ref. Nos. 215-237)						
215	625	CONNECTION, UNFUSED, PERMANENT	102	EACH		\$ -
216	625	CONNECTION, FUSED, PULL APART	96	EACH		\$ -
217	625	PULL BOX 725.08, 24"	4	EACH		\$ -
218	625	GROUND ROD	49	EACH		\$ -
219	625	TRENCH, 24" DEEP	5,747	FT		\$ -
220	625	TRENCH IN PAVED AREA	436	FT		\$ -
221	625	MEDIAN JUNCTION BOX	6	EACH		\$ -
222	625	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	20,610	FT		\$ -
223	625	NO. 4 AWG GROUND CONDUCTOR	9,928	FT		\$ -
224	625	NO. 10 AWG POLE AND BRACKET CABLE	7,000	FT		\$ -
225	625	2" CONDUIT	5,956	FT		\$ -
226	625	3" CONDUIT	120	FT		\$ -
227	625	3" CONDUIT, JACKED OR DRILLED	107	FT		\$ -
228	625	CONTROL CENTER CABINET, COMPLETE	1	EACH		\$ -
229	625	LIGHT POLE FOUNDATION, 24"X 10' DEEP	28	EACH		\$ -
230	625	MEDIAN LIGHT POLE FOUNDATION, 10' DEEP	20	EACH		\$ -
231	625	LIGHT POLE CONVENTIONAL, AT20B40	28	EACH		\$ -
232	625	LIGHT POLE CONVENTIONAL, A20BB40	20	EACH		\$ -
233	625	LUMINAIRE, CONVENTIONAL, 388W, LED, TYPE II, MVOLT, AS PER PLAN	10	EACH		\$ -
234	625	LUMINAIRE, CONVENTIONAL, 388W, LED, TYPE IV, MVOLT, AS PER PLAN	18	EACH		\$ -

PROJECT NO. 39-20-02 - ESTIMATED QUANTITIES WORKSHEET

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
235	625	LUMINAIRE, CONVENTIONAL, 214W, LED, TYPE III, MVOLT, AS PER PLAN	20	EACH		\$ -
236	625	LUMINAIRE, CONVENTIONAL, 83W, LED, TYPE III, MVOLT, AS PER PLAN	20	EACH		\$ -
237	625	PLASTIC CAUTION TAPE	6,220	FT		\$ -
TOTAL - 39-20-02A - LIGHTING						\$ -

39-20-02A - STRUCTURES 20 FT SPAN AND UNDER (MP 48.7) (Ref. Nos. 238-258)						
238	202	PORTIONS OF STRUCTURE REMOVED	1	LS		\$ -
239	203	EXCAVATION	96	CY		\$ -
240	203	GRANULAR MATERIAL, TYPE C (703.16)	96	CY		\$ -
241	204	GEOTEXTILE FABRIC, TYPE A	256	SY		\$ -
242	204	GEOTEXTILE FABRIC, TYPE D	288	SY		\$ -
243	503	COFFERDAMS AND EXCAVATION BRACING	1	LS		\$ -
244	503	UNCLASSIFIED EXCAVATION (WINGWALL FOOTINGS)	150	CY		\$ -
245	SP509	EPOXY COATED REINFORCING STEEL	7,449	LB		\$ -
246	510	DOWEL HOLES WITH NON-SHRINK, NON-METALLIC GROUT	124	EACH		\$ -
247	511	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	23	CY		\$ -
248	511	CLASS QC1 CONCRETE, FOOTING	61	CY		\$ -
249	512	TYPE 2 MEMBRANE WATERPROOFING	350	SY		\$ -
250	512	SEALING OF CONCRETE SURFACES (NON-EPOXY)	48	SY		\$ -
251	516	1" PREFORMED EXPANSION JOINT FILLER	49	SF		\$ -
252	518	POROUS BACKFILL WITH FILTER FABRIC	30	CY		\$ -
253	SP519A	PATCHING CONCRETE, BOX STRUCTURES	5	SF		\$ -
254	601	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	30	CY		\$ -
255	602	CONCRETE MASONRY	18	CY		\$ -
256	611	12' X 6'-3" CONDUIT, TYPE A, 706.05, AS PER PLAN	96	FT		\$ -
257	613	LOW STRENGTH MORTAR BACKFILL (TYPE 2)	7	CY		\$ -
258	SPECIAL	PIPE CLEANOUT, 12' (SPAN) X 6'-3" (RISE)	173	FT		\$ -
TOTAL - 39-20-02A - STRUCTURES 20 FT SPAN AND UNDER (MP 48.7)						\$ -

39-20-02A - STRUCTURES OVER 20 FT SPAN (M.P. 47.4 AND M.P. 47.5) (Ref. Nos. 259-261)						
259	202	APPROACH SLAB REMOVED	494	SY		\$ -
260	526	APPROACH SLAB (T=12"), AS PER PLAN	529	SY		\$ -
261	SP536	CONCRETE WEATHERPROOFING, APPROACH SLABS	491	SY		\$ -
TOTAL - 39-20-02A - STRUCTURES OVER 20 FT SPAN (M.P. 47.4 AND M.P. 47.5)						\$ -

39-20-02B - ROADWAY (Ref. Nos. 262 - 277)						
262	201	CLEARING AND GRUBBING	1	LS		\$ -
263	202	HEADWALL REMOVED	1	EACH		\$ -
264	202	PIPE REMOVED, 4" AND UNDER, AS PER PLAN	1,480	FT		\$ -
265	202	PIPE REMOVED, 24" AND UNDER	70	FT		\$ -
266	202	PUMP STATION DEMOLISHED	1	LS		\$ -
267	202	CONCRETE CURB REMOVED	1,936	FT		\$ -
268	202	PAVEMENT REMOVED	2,176	SY		\$ -
269	202	REMOVAL MISC.: CONCRETE CHANNEL REMOVED	110	SY		\$ -
270	202	REMOVAL MISC.	1	LS		\$ -
271	203	EXCAVATION	40,797	CY		\$ -

Addendum No 1 (Yellow Highlight)
 Addendum No 2 (Green Highlight)
 Addendum No 3 (Blue Highlight)

PROJECT NO. 39-20-02 - ESTIMATED QUANTITIES WORKSHEET

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
272	203	EMBANKMENT	24,119	CY		\$ -
273	606	GUARDRAIL, TYPE MGS, WITH LONG STEEL POSTS	1,313.25	FT		\$ -
274	606	ANCHOR ASSEMBLY, MGS TYPE T	2	EACH		\$ -
275	607	FENCE, TYPE 47, AS PER PLAN	491	FT		\$ -
276	SP 626	BARRIER REFLECTOR, TYPE A	16	EACH		\$ -
277	SP 627	STONE SHOULDER PROTECTION (T=3")	38	CY		\$ -
TOTAL - 39-20-02B - ROADWAY						\$ -

39-20-02B - EROSION CONTROL (Ref. Nos. 278-285)						
278	651	TOPSOIL STOCKPILED	4,663	CY		\$ -
279	652	PLACING STOCKPILED TOPSOIL	4,256	CY		\$ -
280	659	SEEDING AND MULCHING	73,433	SY		\$ -
281	659	REPAIR SEEDING AND MULCHING	3,672	SY		\$ -
282	659	INTER-SEEDING	5,000	SY		\$ -
283	659	COMMERCIAL FERTILIZER	6.60	TON		\$ -
284	659	LIME	15.20	ACRE		\$ -
285	659	WATER	398	MGAL		\$ -
TOTAL - 39-20-02B - EROSION CONTROL						\$ -

39-20-02B - DRAINAGE (Ref. Nos. 286-297)						
286	601	ROCK CHANNEL PROTECTION TYPE C WITH FILTER	10	CY		\$ -
287	SP 605	6" BASE PIPE UNDERDRAIN, WITH FABRIC WRAP (18")	3,127	FT		\$ -
288	SP 605	6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (30")	5,804	FT		\$ -
289	SP 611	PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN	6	EACH		\$ -
290	SP 611	15" CONDUIT, TYPE B, 706.02	32	FT		\$ -
291	SP 611	12" CONDUIT, TYPE C, 707.33	145	FT		\$ -
292	SP 611	6" CONDUIT, TYPE B	200	FT		\$ -
293	SP 611	6" CONDUIT, TYPE E	200	FT		\$ -
294	SP 611	6" CONDUIT, TYPE F	200	FT		\$ -
295	611	MANHOLE, CATCH BASIN OR INLET ADJUST TO GRADE	2	EACH		\$ -
296	SPECIAL	12" PRECAST CONCRETE END SECTION	1	EACH		\$ -
297	SPECIAL	15" PRECAST CONCRETE END SECTION	2	EACH		\$ -
TOTAL - 39-20-02B - DRAINAGE						\$ -

39-20-02B - PAVEMENT (Ref. Nos. 298-309)						
298	209	LINEAR GRADING	5,981	FT		\$ -
299	SP 302	ASPHALT CONCRETE BASE, PG64-22 (SHOULDER)	1,955	CY		\$ -
300	SP 302	ASPHALT CONCRETE BASE, PG64-22	5,100	CY		\$ -
301	SP 302	ASPHALT CONCRETE BASE, PG64-22	787	CY		\$ -
302	SP 304	AGGREGATE BASE (SHOULDER)	2,674	CY		\$ -
303	SP 304	AGGREGATE BASE	2,550	CY		\$ -
304	SP 402	ASPHALT CONCRETE INTERMEDIATE COURSE OR RECYCLED ASPHALT CONCRETE INTERMEDIATE COURSE, PG64-22	423	CY		\$ -
305	SP 402	ASPHALT CONCRETE INTERMEDIATE COURSE OR RECYCLED ASPHALT CONCRETE INTERMEDIATE COURSE, PG76-22 (FR)	744	CY		\$ -
306	SP 404	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG64-22	658	CY		\$ -
307	SP 404	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG76-22 (FR)	637	CY		\$ -
308	SP 404A	JOINT SEALER	5,026	FT		\$ -

Addendum No 1 (Yellow Highlight)
 Addendum No 2 (Green Highlight)
 Addendum No 3 (Blue Highlight)

PROJECT NO. 39-20-02 - ESTIMATED QUANTITIES WORKSHEET

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
309	407	NON -TRACKING TACK COAT	4,813	GAL		\$ -
TOTAL - 39-20-02B - PAVEMENT						\$ -
39-20-02B - TRAFFIC CONTROL (Ref. Nos. 310)						
310	SP 642	EDGE LINE, 6", TYPE 1	1.12	MILE		\$ -
TOTAL - 39-20-02B - TRAFFIC CONTROL						\$ -
39-20-02 - GENERAL (Ref. Nos. 311-315)						
311	IB,ART.6	PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND	1	LS		\$ -
312	SP 614	MAINTAINING TRAFFIC	1	LS		\$ -
313	SP 619	FIELD OFFICE	1	LS		\$ -
314	SP 623	CONSTRUCTION LAYOUT SURVEY	1	LS		\$ -
315	624	MOBILIZATION	1	LS		\$ -
TOTAL - 39-20-02 - GENERAL						\$ -

PROJECT 39-20-02 - TOTAL BASE BID (REF. No. 1 THRU REF. No. 315)

PROJECT NO. 39-20-02 - ESTIMATED QUANTITIES WORKSHEET

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
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NOTE: Bidders must complete following information below.

WASTE SITE 1 DEDUCT ALTERNATE

The Bidder may deposit waste material on the westbound side for the 39-20-02 Project as described on Plan Sheet 496 - 2/3. Such deduct alternate must be submitted with the Bidder's Bid, and all the requirements to fulfill the Alternate Work as described in the Plans. The Bidder must fill in "yes" or "no" in the space provided below as to whether a Waste Site Proposal is included with the Bid and must also enter an amount to be deducted from the Total Base Bid as a credit due to the Commission, should this Proposal be approved. (Refer to Articles 2.6.3 and 3.5.1 of the INSTRUCTIONS TO BIDDERS)

A **Waste Site 1 Deduct Alternate** Proposal is included in the Bid Submittal: _____ . (yes or no)

Amount of **WASTE SITE 1 DEDUCT ALTERNATE**:

WASTE SITE 2 DEDUCT ALTERNATE

The Bidder may deposit waste material on the eastbound side for the 39-20-02 Project as described on Plan Sheet 497 - 3/3. Such deduct alternate must be submitted with the Bidder's Bid, and all the requirements to fulfill the Alternate Work as described in the Plans. The Bidder must fill in "yes" or "no" in the space provided below as to whether a Waste Site Proposal is included with the Bid and must also enter an amount to be deducted from the Total Base Bid as a credit due to the Commission, should this Proposal be approved. (Refer to Articles 2.6.3 and 3.5.1 of the INSTRUCTIONS TO BIDDERS)

A **Waste Site 2 Deduct Alternate** Proposal is included in the Bid Submittal: _____ . (yes or no)

Amount of **WASTE SITE 2 DEDUCT ALTERNATE**:

TEMPORARY ACCESS DEDUCT ALTERNATE

The Bidder may request permission to construct one (1) or more Temporary Access entrances or exits at a site, sites of its own choice or either abandoned Service Plaza 2 (MP49). Such Deduct Alternate request must be submitted with the Bidder's Bid, and must include the information specified in SP 104 and will be considered subject to the conditions and provisions contained in said SP 104. The Bidder must fill in "yes" or "no" in the space provided below as to whether a Temporary Access Proposal is included with the Bid and must also enter an amount to be deducted from the Total Base Bid as a credit due to the Commission, should this Proposal be approved. (Refer to Articles 2.6.3 and 3.5.1 of the INSTRUCTIONS TO BIDDERS)

A **Temporary Access Deduct Alternate** Proposal is included in the Bid Submittal: _____ . (yes or no)

Amount of **TEMPORARY ACCESS DEDUCT ALTERNATE**:

PROJECT 39-20-02 - TOTAL BASE BID (REF. No. 1 THRU REF. No. 315) MINUS DEDUCT ALTERNATES	<input type="text"/>	<input type="text"/>
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