



# OHIO DEPARTMENT OF TRANSPORTATION

CENTRAL OFFICE • 1980 WEST BROAD STREET • COLUMBUS, OH 43223  
JOHN R. KASICH, GOVERNOR • JERRY WRAY, DIRECTOR

12/29/2014

Project 153000      **Addendum No. 2**  
PID No. 98061  
SUM – IR 76/77 – 7.58/9.59  
Bridge Repair  
Letting: January 15, 2015

Notice to all Bidders and Suppliers to please be advised of the attached Proposal Addendum.

For internet access to information referenced in this addendum, please see the ODOT web site at -> <ftp://ftp.dot.state.oh.us/pub/Contracts/Attach/SUM-98061/>

The Department utilizes Bid Express (<http://www.bidx.com>) as the official medium for electronic bid submittal. All bidders must prepare bids and submit them online via Bid Express.

Addenda amendments must be acknowledged in the miscellaneous section of the Expedite (EBS) file and all amendments loaded in order for your bid to be considered for award of this project. Bid express will not accept bids that do not have amendments incorporated. Failure to incorporate changed quantities or items in your Expedite (EBS) submissions will result in the rejection of your bid.

**Proposal Addendum  
For  
SUM-76/77-7.58/9.59, PID 98061  
Project 153000**

**Completion Date Change:** No

**Bid Item Changes, Additions or Deletions:** Yes

**Funding Splits Required:** No

**Added Bid Items:** No

**Please be advised of the following:**

The Centerline Control for this Project is attached.

**Delete the following Note:** No

**Plan sheets:** No

**Answers to Prebid Questions:** Yes

**Q1:** Can the centerline control referenced in the scope be made available to the DBTs?  
(Submitted 12/18/2014 at 03:23:07 PM

**A1:** Supplied with this Addendum

# SUM-I77-9.58

PID#98061

Copyright: (c) 2006 Bentley Systems, Incorporated. All rights reserved.

Project: 98061

Subject:

Job No. 077 Operator: BM

Date: Tuesday August 26, 2014 8:01 am

SYSTEM FIX 4 ASEC 2 BEAR PRI 0 RED NE STA 3 FILE: 'CNTRL'

**\*\*\*NOTE:** ALL COORDINATES SHOWN BELOW ARE ENGLISH **LOCAL GROUND COORDINATES** (SCALED ABOUT THE ORIGIN) BASED ON REF. FRAME: **NAD83(2011) EPOCH 2010.0000**, AND WERE DERIVED FORM GPS OBSERVATIONS MADE IN JULY 2014. THESE VALUES MAY BE REDUCED TO **OHIO NORTH ZONE METRIC GRID** (3401) BY A **P.A.F.** (PROJECT ADJUSTMENT FACTOR) OF **0.30476852898** (Average Combined Ground to Grid Scale Factor = 0.99989474882)  
\*Note: Elevations are based on GPS Ortho Height of T-100. (NAVD88,GEOID12a).\*

## NORTH BOUND BASELINE I-77

\* 2 DESCRIBE CHAIN BLNB77

Chain BLNB77 contains:

CUR C1 M506

Beginning chain BLNB77 description

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### Curve Data

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Curve C1

P.I. Station 485+55.843 N 495,537.0271 E 2,245,364.2159

Delta = 30- 33' 42.63" (LT)

Degree = 1- 28' 03.32"

Tangent = 1,066.6362

Length = 2,082.4509

Radius = 3,904.0724

External = 143.0864

Long Chord = 2,057.8510

Mid. Ord. = 138.0276

P.C. Station 474+89.207 N 494,490.6648 E 2,245,571.1907

P.T. Station 495+71.658 N 496,332.7896 E 2,244,653.9519

1" ipin Fnd &

Used 14" deep

C.C. N 493,733.1010 E 2,241,741.3241

Back = N 11- 11' 20.08" W

Ahead = N 41- 45' 02.71" W

Chord Bear = N 26- 28' 11.40" W

Course from PT C1 to M506 N 41- 45' 02.71" W Dist 1,094.0922

Point M506            N    497,149.0356 E    2,243,925.4052 Sta    506+65.750    Monbox Fnd  
& Used Flush

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Ending chain BLNB77 description

### BASELINE RAMP B

\*     4    DESCRIBE CHAIN BLRAMP-B

Chain BLRAMP-B contains:  
BL10 CUR B0 CUR B1 CUR B2 BL228

Beginning chain BLRAMP-B description

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Point BL10            N    497,177.5764 E    2,243,162.8098 Sta    10+78.650

Course from BL10 to PC B0 S 29- 42' 46.63" W Dist 195.4500

#### Curve Data

\*-----\*

Curve B0

P.I. Station        13+94.382 N        496,903.3574 E        2,243,006.3159

Delta     =     9- 36' 00.00" (RT)

Degree    =     4- 00' 00.00"

Tangent   =     120.2815

Length    =     240.0000

Radius    =     1,432.3945

External   =     5.0413

Long Chord =     239.7194

Mid. Ord. =     5.0236

S. E.      =     0.000

P.C. Station        12+74.100 N        497,007.8243 E        2,243,065.9341

P.T. Station        15+14.100 N        496,810.2960 E        2,242,930.1109

C.C.                N    497,717.7978 E    2,241,821.8715

Back       = S 29- 42' 46.63" W

Ahead      = S 39- 18' 46.63" W

Chord Bear = S 34- 30' 46.63" W

#### Curve Data

\*-----\*

Curve B1

P.I. Station        17+19.076 N        496,651.7067 E        2,242,800.2472

Delta     =    31- 56' 33.00" (RT)

Degree    =     8- 00' 00.21"

Tangent   =     204.9759

Length    =     399.2783

Radius    =     716.1919

External   =     28.7550

Long Chord =     394.1275

Mid. Ord. = 27.6451  
 S. E. = 0.000  
 P.C. Station 15+14.100 N 496,810.2960 E 2,242,930.1109  
 P.T. Station 19+13.378 N 496,585.8379 E 2,242,606.1431  
 C.C. N 497,264.0435 E 2,242,375.9953  
 Back = S 39- 18' 46.63" W  
 Ahead = S 71- 15' 19.63" W  
 Chord Bear = S 55- 17' 03.13" W

Curve Data  
\*-----\*

Curve B2  
 P.I. Station 20+63.933 N 496,537.4572 E 2,242,463.5736  
 Delta = 12- 00' 00.00" (RT)  
 Degree = 3- 59' 59.60"  
 Tangent = 150.5549  
 Length = 300.0082  
 Radius = 1,432.4339  
 External = 7.8902  
 Long Chord = 299.4602  
 Mid. Ord. = 7.8470  
 S. E. = 0.000  
 P.C. Station 19+13.378 N 496,585.8379 E 2,242,606.1431  
 P.T. Station 22+13.387 N 496,519.7756 E 2,242,314.0606  
 C.C. N 497,942.2965 E 2,242,145.8315  
 Back = S 71- 15' 19.63" W  
 Ahead = S 83- 15' 19.63" W  
 Chord Bear = S 77- 15' 19.63" W

Course from PT B2 to BL228 S 83- 15' 19.63" W Dist 584.3776

Point BL228 N 496,451.1446 E 2,241,733.7271 Sta 27+97.764

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 Ending chain BLRAMP-B description

## BASELINE RAMP B-2

\* 3 DESCRIBE CHAIN BLRAMP-B2

Chain BLRAMP-B2 contains:

CUR RAMP1 SPI RAMP1 CUR RAMP2 SPI RAMP2A BL15

Beginning chain BLRAMP-B2 description

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### Curve Data

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Curve RAMP1

P.I. Station        2+94.117 N        496,930.9331 E        2,244,103.9895  
Delta        =    11- 43' 25.00" (LT)  
Degree       =    2- 00' 00.00"  
Tangent       =        294.1172  
Length        =        586.1806  
Radius        =        2,864.7890  
External       =        15.0584  
Long Chord    =        585.1585  
Mid. Ord.     =        14.9796  
S. E.         =        0.000  
P.C. Station        0+00.000 N        496,711.5074 E        2,244,299.8396  
P.T. Station        5+86.181 N        497,105.9865 E        2,243,867.6397  
C.C.                N        494,803.8688 E        2,242,162.5678  
Back         = N 41- 45' 02.71" W  
Ahead        = N 53- 28' 27.71" W  
Chord Bear   = N 47- 36' 45.21" W  
Spiral RAMP1        Type 3    Spiral Element

D1        2- 00' 00.00"    DEL1 1- 29' 56.30"    LC        149.7831  
D2        12- 00' 00.44"    DEL2 9- 00' 04.03"    R1        2,864.7890  
LS        150.0000        P        1.6349    R2        477.4600  
Angle    10- 30' 00.33" (LT)    LT        93.0541    BK N 53- 28' 27.71" W  
DEFL     3- 59' 57.57"        ST        57.3241    AH N 63- 58' 28.04" W

### Spiral Coordinates

\*-----\*

Point	North	East	Station
CS	497,105.9865	2,243,867.6397	5+86.181
PI	497,161.3706	2,243,792.8623	6+79.235
SC	497,186.5228	2,243,741.3509	7+36.181
CC1	494,803.8688	2,242,162.5678	
CC2	496,757.4780	2,243,531.8550	

### Curve Data

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Curve RAMP2

P.I. Station        10+65.431 N        497,330.9885 E        2,243,445.4874  
Delta        =    69- 10' 46.00" (LT)  
Degree       =    12- 00' 00.59"  
Tangent       =        329.2500

Length = 576.4874  
 Radius = 477.4583  
 External = 102.5176  
 Long Chord = 542.1024  
 Mid. Ord. = 84.3964  
 P.C. Station 7+36.181 N 497,186.5228 E 2,243,741.3509  
 P.T. Station 13+12.668 N 497,105.7945 E 2,243,205.2932  
 C.C. N 496,757.4796 E 2,243,531.8557  
 Back = N 63- 58' 28.04" W  
 Ahead = S 46- 50' 45.96" W  
 Chord Bear = S 81- 26' 08.96" W

Spiral RAMP2A Type 2 Spiral Element

Angle 9- 00' 00.33" (LT) P 1.9618 BK S 46- 50' 45.96" W  
 LS 150.0000 K 74.9384 AH S 37- 50' 45.63" W  
 R 477.4600 LT 100.1296 CB S 40- 50' 43.48" W  
 YS 7.8402 ST 50.1178 Defl 2- 59' 57.85"  
 XS 149.6303 LC 149.8356 Deg 12- 00' 00.44"

Spiral Coordinates

\*-----\*

Point	North	East	Station
CS	497,105.7945	2,243,205.2932	13+12.668
PI	497,071.5159	2,243,168.7313	13+62.786
ST	496,992.4474	2,243,107.2977	14+62.668
CC	496,757.4783	2,243,531.8569	

Course from ST RAMP2A to BL15 S 37- 50' 45.63" W Dist 80.0000

Point BL15 N 496,929.2744 E 2,243,058.2144 Sta 15+42.668

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Ending chain BLRAMP-B2 description

# CENTERLINE R/W I-277

\* 1 DESCRIBE CHAIN CLRW277

Chain CLRW277 contains:  
M228 M277

Beginning chain CLRW277 description

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Point M228            N    496,351.2535 E   2,241,134.7009 Sta   222+63.191    Magmail  
Fnd& Used

Course from M228 to M277 N 84- 41' 15.18" E Dist 5,512.9487

Point M277            N    496,861.6807 E   2,246,623.9693 Sta   277+76.140    Magmail  
Fnd& Used

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Ending chain CLRW277 description



## PROJECT CONTROL POINTS

(Sta. & Offset to North Bound Baseline I-77)

Point	North	East	Station	Offset	Elevation (NAVD88 Based on Geoid 12a)
-----					
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T380	495,533.5380	2,245,081.5310	486+56.878	-109.530	<b>1052.311</b>
	Feature : ipins #5 Rebar set w\ ODOT cap				
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T400	496,325.2354	2,244,564.1606	496+25.813	-72.019	<b>1038.282</b>
	Feature : ipins #5 Rebar set w\ ODOT cap				
-----					
M495	496,332.7896	2,244,653.9519	495+71.658	0.0000	
	Feature : IPIN 1" ipin Fnd & Used 14" deep @ P.T.				
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M500	496,651.9183	2,244,369.0644	499+99.447	-0.0348	
	Feature : MONBOX				
-----					
M506	497,149.0356	2,243,925.4052	506+65.750	0.0000	
	Feature : MONBOX Fnd and used @ T.S. flush				
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## PROJECT CONTROL POINTS

(Sta. & Offset to Centerline R\W I-277)

Point	North	East	Station	Offset	Elevation (NAVD88 Based on Geoid 12a)
-----					
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M228	496,351.2535	2,241,134.7009	222+63.191	0.0000	
	Feature : mags Fnd. & Used on top of Conc. Barrier wall				
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M237	496,484.5241	2,242,567.5004	237+02.175	-0.0396	
	Feature : mags Fnd. on top of Conc. Barrier wall				
-----					
M247	496,577.2203	2,243,563.2224	247+02.203	-0.1467	
	Feature : mags Fnd. on top of Conc. Barrier wall				
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M257	496,669.8592	2,244,558.8995	257+02.180	-0.2010	
	Feature : mags Fnd. on top of Conc. Barrier wall				
-----					
M267	496,762.3488	2,245,554.6195	267+02.186	-0.1026	
	Feature : mags Fnd. on top of Conc. Barrier wall				
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M277	496,861.6807	2,246,623.9693	277+76.140	0.0000	
	Feature : mags Fnd. & Used on top of Conc. Barrier wall				
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## PROJECT CONTROL POINTS

(Sta. & Offset to Baseline Ramp B-2)

Point	North	East	Station	Offset	Elevation (NAVD88 Based on Geoid 12a)
--					
T100	497,076.1645	2,243,893.4575	5+47.571	-8.339	1,045.339
Feature	: ipins #5 Rebar set w\ ODOT cap				
T200	497,185.4207	2,243,343.0982	11+51.400	-9.737	1,053.761
Feature	: ipins #5 Rebar set w\ ODOT cap				
BM2000	497,057.9454	2,243,975.3909	4+72.077	27.820	1,044.188
Feature	: bm "x" cut on the Northwest bolt of the West sign post of the "EXIT 122B" sign				

## PROJECT CONTROL POINTS

(Sta. & Offset to Baseline Ramp B)

Point	North	East	Station	Offset	Elevation (NAVD88 Based on Geoid 12a)
--					
T300	496,619.2009	2,242,915.1345	16+48.959	-124.340	1,036.955
Feature	: ipins #5 Rebar set w\ ODOT cap				
BM5000	496,613.1203	2,242,856.9857	16+91.912	-93.161	1,037.826
Feature	: BM "x" cut on the East most bolt of a high mast light #WO 3/2				

## PROJECT CONTROL POINTS

(Sta. & Offset to Centerline R\W I-77)

Point	North	East	Station	Offset	Elevation (NAVD88 Based on Geoid 12a)
--					
M448	491,870.3195	2,246,058.9248	448+23.911		
Feature	: cmon 1/2" ipin in Concrete reference mon				
M472	494,227.0752	2,245,592.7486	472+26.330		
Feature	: cmon 1/2" ipin in Concrete reference mon				

# PROJECT CONTROL POINTS

(Sta. & Offset to Baseline Ramp A)

Point	North	East	Station	Offset	Elevation (NAVD88 Based on Geoid 12a)
-----					
T320	496,472.8260	2,243,316.3152	2+69.186	15.496	<b>1,048.479</b>
Feature	: ipins #5 Rebar set w\ODOT cap				
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T340	496,408.8772	2,243,961.1434	9+24.627	13.221	<b>1,047.048</b>
Feature	: ipins #5 Rebar set w\ODOT cap				
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T360	496,211.3899	2,244,442.8305	14+42.240	-33.954	<b>1,042.555</b>
Feature	: ipins #5 Rebar set w\ODOT cap				
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