

**Proposal Addendum  
for  
SUM-76/77-7.58/9.59, PID 98061  
Project 15-3000**

**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

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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  
\*-----\*

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

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
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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  
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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

Curve Data  
\*-----\*

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  
\*-----\*

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
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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)
T380	495,533.5380	2,245,081.5310	486+56.878	-109.530	1052.311
Feature : ipins #5 Rebar set w\ ODOT cap					
T400	496,325.2354	2,244,564.1606	496+25.813	-72.019	1038.282
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.					
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					

## PROJECT CONTROL POINTS

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

Point	North	East	Station	Offset	Elevation (NAVD88 Based on Geoid 12a)
M228	496,351.2535	2,241,134.7009	222+63.191	0.0000	
Feature : mags Fnd. & Used on top of Conc. Barrier wall					
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					
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					
M277	496,861.6807	2,246,623.9693	277+76.140	0.0000	
Feature : mags Fnd. & Used on top of Conc. Barrier wall					

## 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	1,048.479
Feature : ipins #5 Rebar set w\ODOT cap					
T340	496,408.8772	2,243,961.1434	9+24.627	13.221	1,047.048
Feature : ipins #5 Rebar set w\ODOT cap					
T360	496,211.3899	2,244,442.8305	14+42.240	-33.954	1,042.555
Feature : ipins #5 Rebar set w\ODOT cap					