



**CUY-90-14.90**

**PID 77332/85531**

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**APPENDIX SU-01**

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**Survey Control  
(Contract Document)**

State of Ohio  
Department of Transportation  
Jolene M. Molitoris, Director

**Innerbelt Bridge  
Construction Contract Group 1 (CCG1)**

# MON 01

## BURGESS & NIPLE, INC.

4160 PLEASANT VALLEY ROAD, CHANTILLY, VA 201151-1226  
 PH. (703) 631-9630 FAX (703)-631-9177

GEODETIC CONTROL SHEET Ohio Department of Transportation Cuyahoga County Control	State Plane: OHIO (NORTH ZONE) Datum: NAD 83 (95)
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County: CUYAHOGA	Name of Station: 90-175.6	Year: 2004	Vertical Datum: NAVD 88
N 207212.23013m	E 670633.20513m	Elevation: 76.75184m	Conversion: US Survey Foot
Lat: 41°31'46.38409"N	Long: 81°39'13.07647"W	Combined Scale Factor: 0.99994020409	
Date: April 29, 2004			

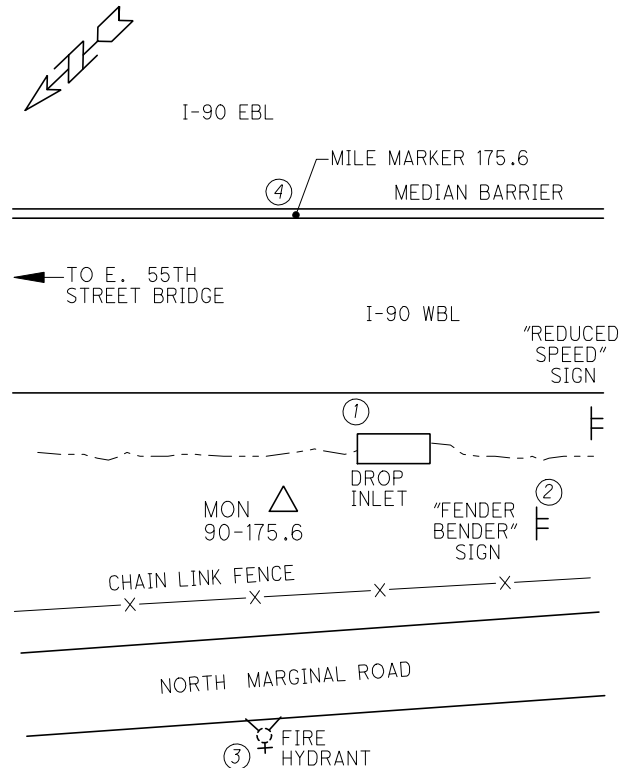
PROJECT COORDINATES:

N 679869.4451'	E 2200367.3468'	Elevation: 579.89'
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SKETCH: NOT TO SCALE

REFERENCES:

1. SE CORNER OF DROP INLET = 70.3'
2. SOUTHERN LEG OF ROAD SIGN ("FENDER BENDER") = 138.10'
3. FIRE HYDRANT = 61.1'
4. MILE MARKER 175.6 = 87.8'



# MON 02

## BURGESS & NIPLE, INC.

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 PH. (703) 631-9630 FAX (703)-631-9177

GEODETIC CONTROL SHEET

Ohio Department of Transportation Cuyahoga County Control

State Plane: OHIO (NORTH ZONE)

Datum: NAD 83 (95)

County: CUYAHOGA

Name of Station: 90-175.2

Year: 2004

Vertical Datum: NAVD 88

N 206836.08407m

E 670102.21003m

Elevation: 77.94066m

Conversion: US Survey Foot

Lat: 41°31'34.35842"N

Long: 81°39'36.13699"W

Combined Scale Factor: 0.99994020409

Date: April 29, 2004

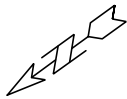
PROJECT COORDINATES:

N 678635.2988'

E 2198625.1362'

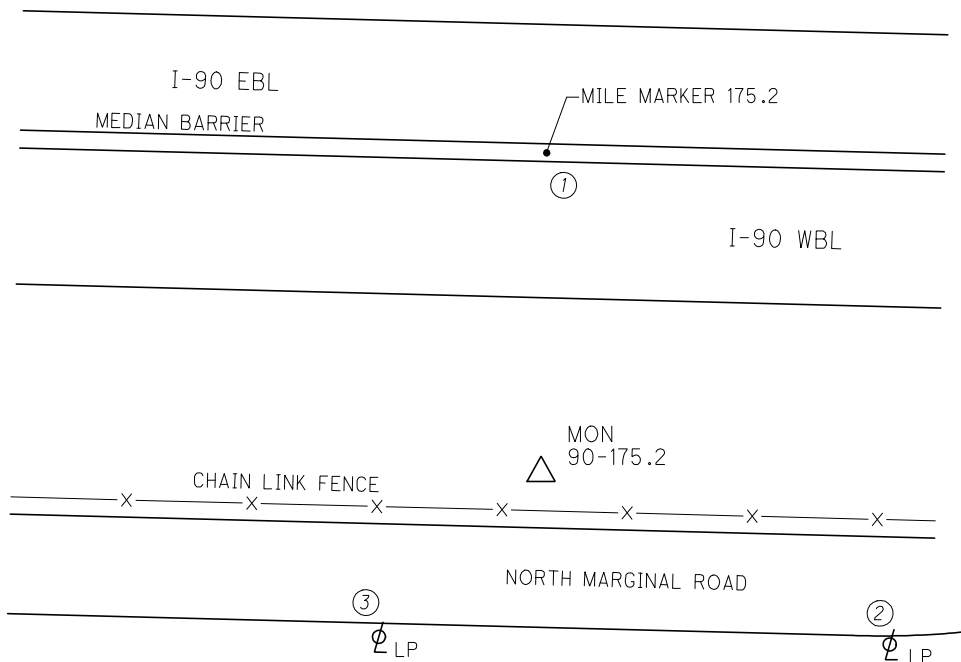
Elevation: 583.79'

SKETCH: NOT TO SCALE



REFERENCES:

1. MILE MARKER 175.2 = 84.3'
2. LP WITH "NO PARKING" SIGN = 112.5'
3. LIGHT POLE = 61.0'



# MON 03

## BURGESS & NIPLE, INC.

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 PH. (703) 631-9630 FAX (703)-631-9177

GEODETIC CONTROL SHEET

Ohio Department of Transportation Cuyahoga County Control

State Plane: OHIO (NORTH ZONE)

Datum: NAD 83 (95)

County: CUYAHOGA

Name of Station: 2-16.8

Year: 2004

Vertical Datum: NAVD 88

N 205625.66682m

E 668384.27010m

Elevation: 83.24368m

Conversion: US Survey Foot

Lat: 41°30'55.65456"N

Long: 81°40'50.72644"W

Combined Scale Factor: 0.99994020409

Date: April 29, 2004

PROJECT COORDINATES:

N 674663.8840'

E 2192988.5246'

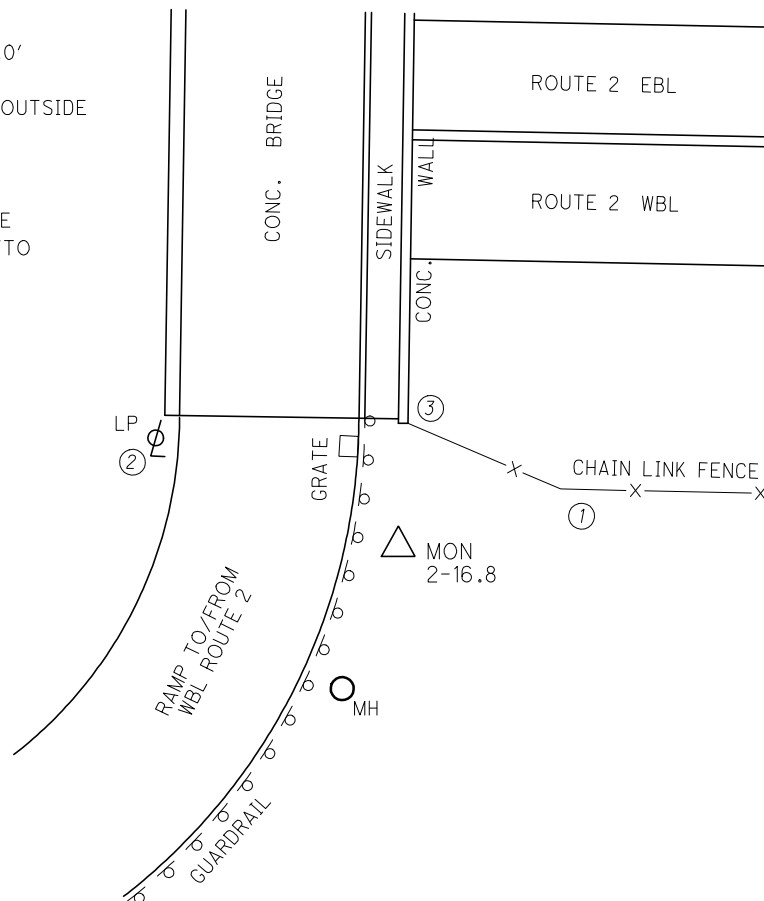
Elevation: 601.17'

SKETCH: NOT TO SCALE

REFERENCES:

1. CHAIN LINK FENCE CORNER = 23.0'
2. LIGHT POLE = 39.0'
3. CORNER OF CONCRETE WALL, OUTSIDE WESTERN CORNER = 12.5'

MONUMENT IS LOCATED ON WEST SIDE OF ROADWAY NEAR OVERPASS FROM/TO ROUTE 2 WBL AND MARGINAL ROAD



# MON 04

## BURGESS & NIPLE, INC.

4160 PLEASANT VALLEY ROAD, CHANTILLY, VA 201151-1226  
 PH. (703) 631-9630 FAX (703)-631-9177

GEODETIC CONTROL SHEET Ohio Department of Transportation Cuyahoga County Control			State Plane: OHIO (NORTH ZONE) Datum: NAD 83 (95)
County: CUYAHOGA	Name of Station: 2-16.44	Year: 2004	Vertical Datum: NAVD 88
N 205234.04804m	E 667965.11454m	Elevation: 77.51436m	Conversion: US Survey Foot
Lat: 41°30'43.08811"N	Long: 81°41'08.96038"W	Combined Scale Factor: 0.99994020409	
Date: April 29, 2004			

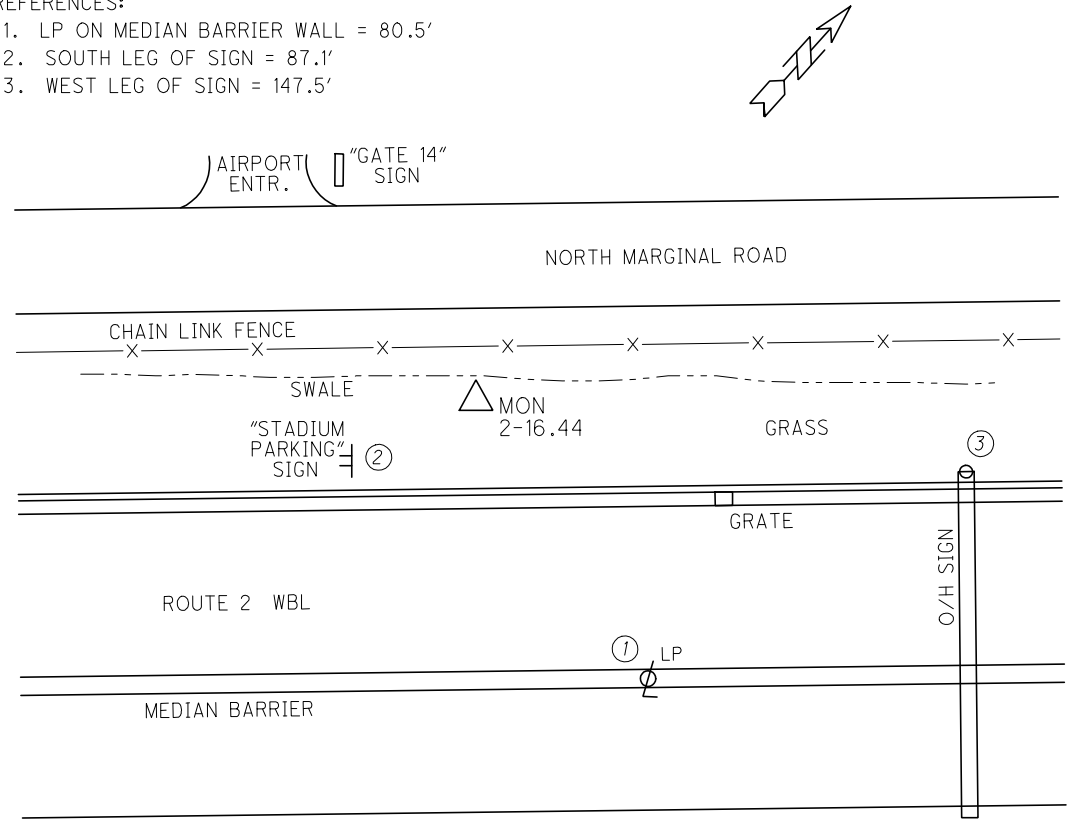
PROJECT COORDINATES:

N 673378.9712'	E 2191613.2628'	Elevation: 582.36'
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SKETCH: NOT TO SCALE

REFERENCES:

1. LP ON MEDIAN BARRIER WALL = 80.5'
2. SOUTH LEG OF SIGN = 87.1'
3. WEST LEG OF SIGN = 147.5'



# MON 05

## BURGESS & NIPLE, INC.

4160 PLEASANT VALLEY ROAD, CHANTILLY, VA 20115-1226  
 PH. (703) 631-9630 FAX (703)-631-9177

**GEODETIC CONTROL SHEET**

Ohio Department of Transportation Cuyahoga County Control

State Plane: OHIO (NORTH ZONE)

Datum: NAD 83 (95)

County: CUYAHOGA	Name of Station: 90-172.2	Year: 2004	Vertical Datum: NAVD 88
N 203346.31627m	E 668361.94418m	Elevation 212.18591m	Conversion: US Survey Foot
Lat: 41°29'41.77978"N	Long: 81°40'52.61205"W	Combined Scale Factor: 0.99994020409	
Date: April 29, 2004			

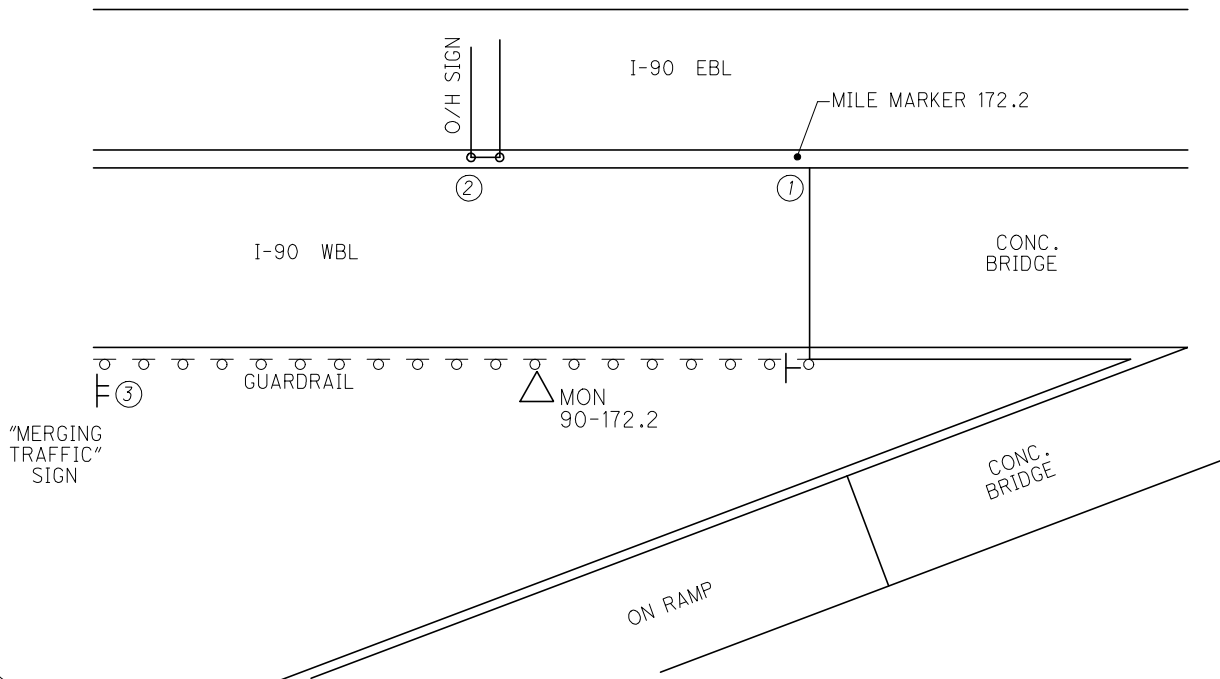
**PROJECT COORDINATES:**

N 667185.2676'	E 2192915.2726'	Elevation 696.15'
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SKETCH: NOT TO SCALE

**REFERENCES:**

1. MILE MARKER 172.2 = 66.80'
2. EASTERN LEG OF O/H SIGN = 57.0'
3. NORTHERN LEG OF "MERGING TRAFFIC" SIGN = 66.52'



# MON 06

## BURGESS & NIPLE, INC.

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GEODETIC CONTROL SHEET

Ohio Department of Transportation Cuyahoga County Control

State Plane: OHIO (NORTH ZONE)

Datum: NAD 83 (95)

County: CUYAHOGA

Name of Station: 77-162.8

Year: 2004

Vertical Datum: NAVD 88

N 203150.60963m

E 668622.61148m

Elevation: 12.01066m

Conversion: US Survey Foot

Lat: 41°29'35.35676"N

Long: 81°40'41.45369"W

Combined Scale Factor: 0.99994020409

Date: April 29, 2004

PROJECT COORDINATES:

N 666543.1483'

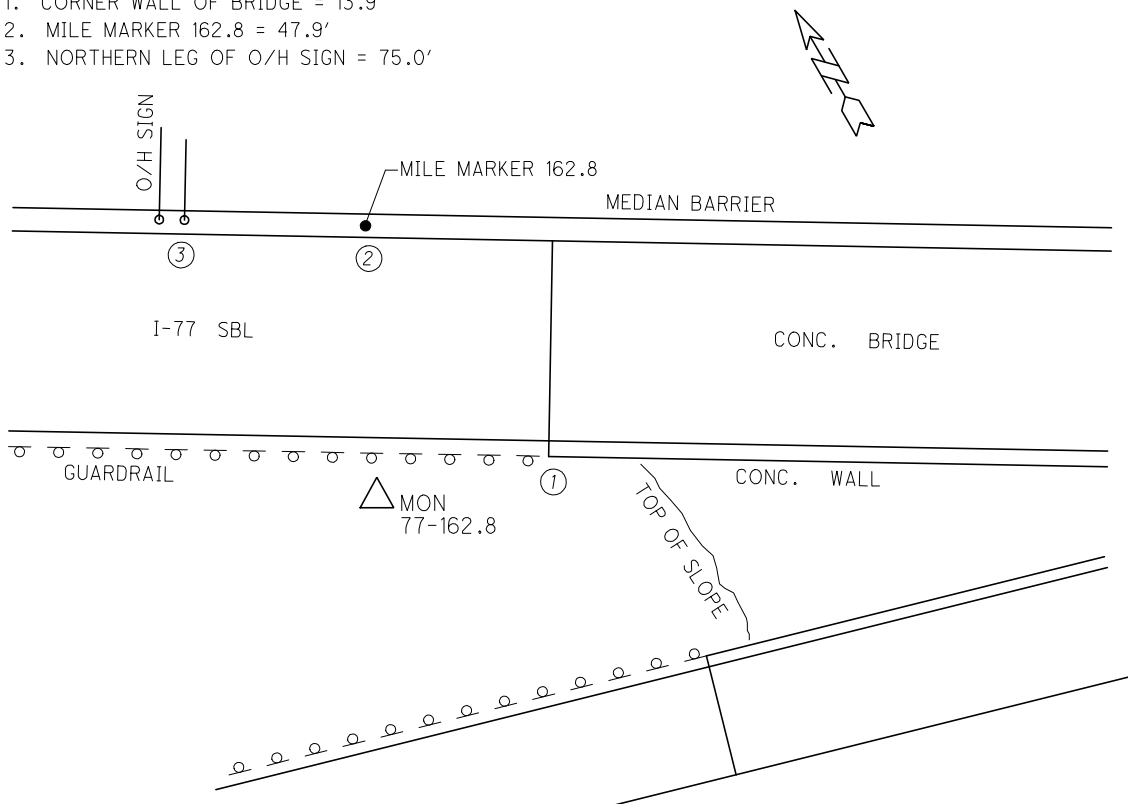
E 2193770.5297'

Elevation: 695.57'

SKETCH: NOT TO SCALE

REFERENCES:

1. CORNER WALL OF BRIDGE = 13.9'
2. MILE MARKER 162.8 = 47.9'
3. NORTHERN LEG OF O/H SIGN = 75.0'



# MON 07

## BURGESS & NIPLE, INC.

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 PH. (703) 631-9630 FAX (703)-631-9177

GEODETIC CONTROL SHEET

Ohio Department of Transportation Cuyahoga County Control

State Plane: OHIO (NORTH ZONE)

Datum: NAD 83 (95)

County: CUYAHOGA

Name of Station: 422-2.31

Year: 2004

Vertical Datum: NAVD 88

N 202644.06184m

E 670713.98642m

Elevation 206.16830m

Conversion: US Survey Foot

Lat: 41°29'18.28927"N

Long: 81°39'11.50526"W

Combined Scale Factor: 0.99994020409

Date: April 29, 2004

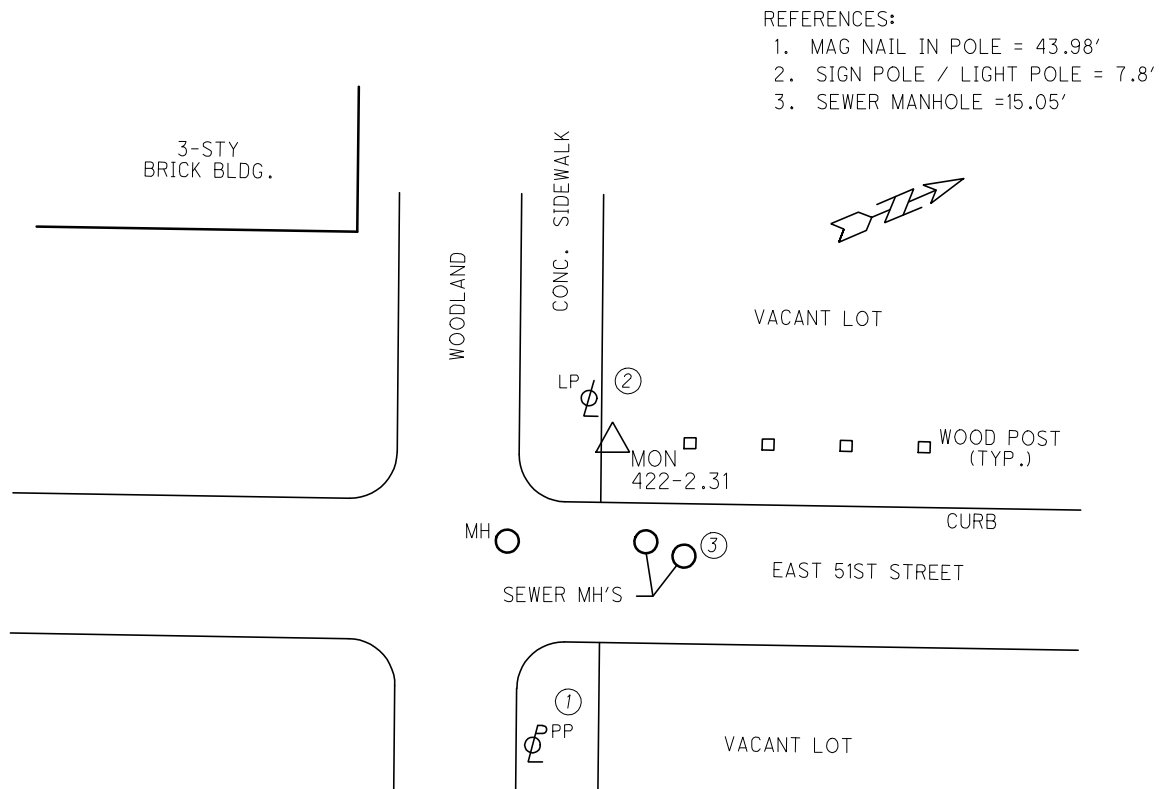
PROJECT COORDINATES:

N 664881.1501'

E 2200632.3926'

Elevation 676.40'

SKETCH: NOT TO SCALE





# MON 08

## BURGESS & NIPLE, INC.

4160 PLEASANT VALLEY ROAD, CHANTILLY, VA 201151-1226  
 PH. (703) 631-9630 FAX (703)-631-9177

GEODETTIC CONTROL SHEET

Ohio Department of Transportation Cuyahoga County Control

State Plane: OHIO (NORTH ZONE)

Datum: NAD 83 (95)

County: CUYAHOGA	Name of Station: 422-2.02	Year: 2004	Vertical Datum: NAVD 88
N 202732.42026m	E 670263.04202m	Elevation 206.28355m	Conversion: US Survey Foot
Lat: 41°29'21.29474"N	Long: 81°39'30.90761"W	Combined Scale Factor: 0.99994020409	
Date: April 29, 2004			

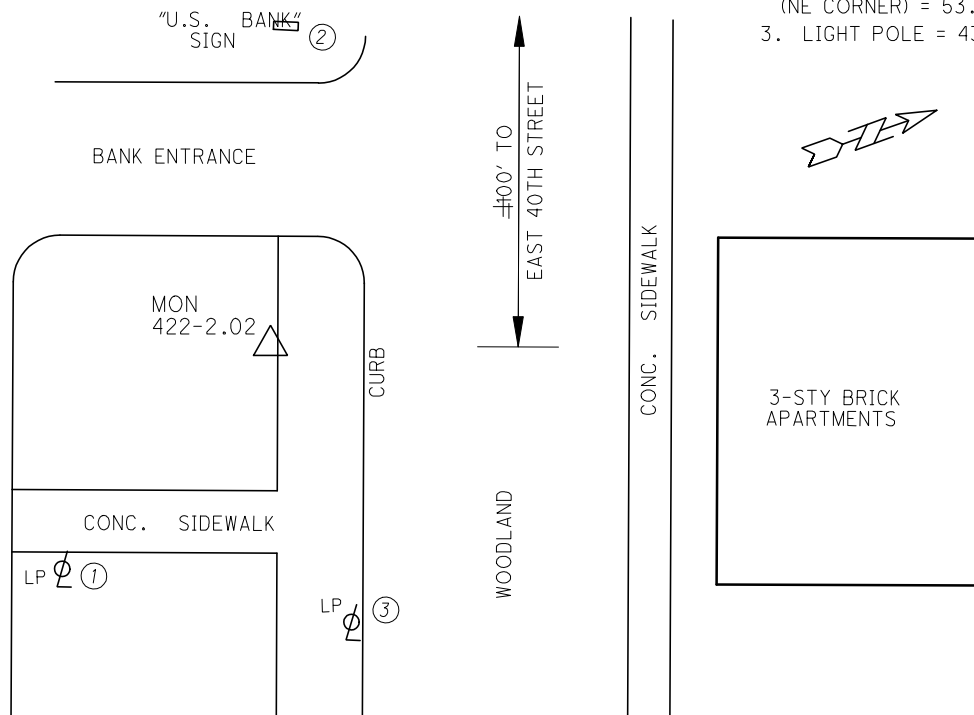
PROJECT COORDINATES:

N 665171.0566'	E 2199152.8307'	Elevation 676.78'
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SKETCH: NOT TO SCALE

REFERENCES:

1. LIGHT POLE = 17.90'
2. BASE OF "U.S. BANK" SIGN (NE CORNER) = 53.68'
3. LIGHT POLE = 43.18'



# MON 09

## BURGESS & NIPLE, INC.

4160 PLEASANT VALLEY ROAD, CHANTILLY, VA 201151-1226  
 PH. (703) 631-9630 FAX (703)-631-9177

GEODETIC CONTROL SHEET

Ohio Department of Transportation Cuyahoga County Control

State Plane: OHIO (NORTH ZONE)

Datum: NAD 83 (95)

County: CUYAHOGA

Name of Station: 90-171.28

Year: 2004

Vertical Datum: NAVD 88

N 202123.16176m

E 667575.29234m

Elevation 212.64837m

Conversion: US Survey Foot

Lat: 41°29'02.37090"N

Long: 81°41'27.01541"W

Combined Scale Factor: 0.99994020409

Date: April 29, 2004

PROJECT COORDINATES:

N 663172.0615'

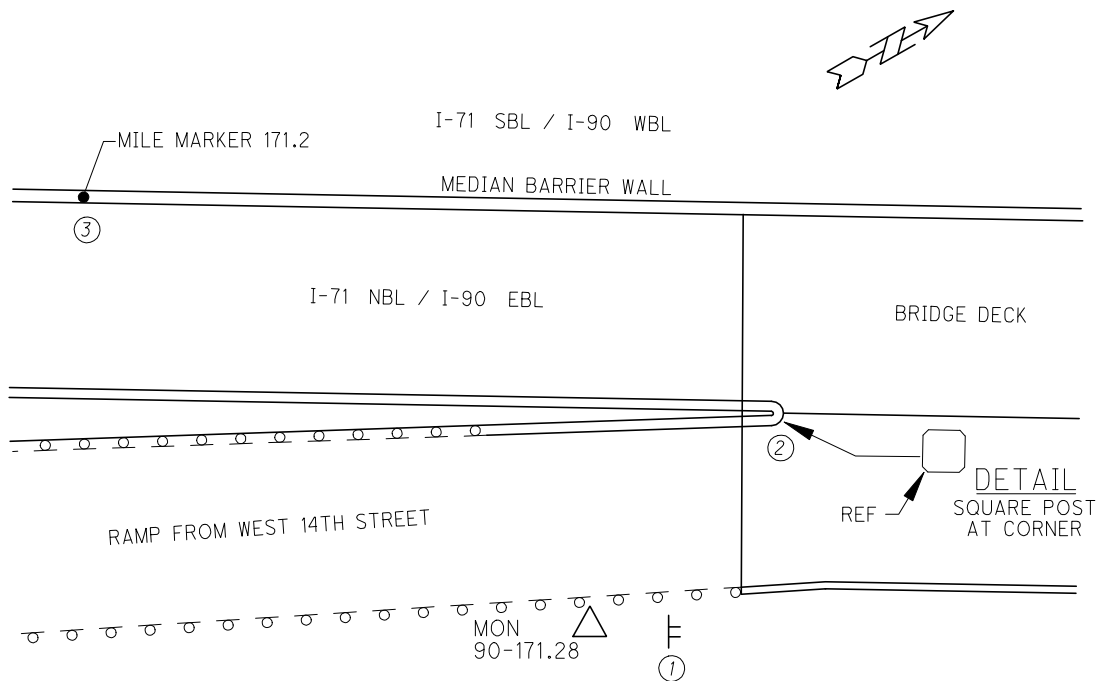
E 2190334.2447'

Elevation 697.66'

SKETCH: NOT TO SCALE

REFERENCES:

1. "YIELD" SIGN = 10.1'
2. SE CORNER OF BARRIER WALL AT RAMP = 90.1'
3. I-90 WEST BOUND MILE MARKER 171.2 = 436.5'



# MON 10

## BURGESS & NIPLE, INC.

4160 PLEASANT VALLEY ROAD, CHANTILLY, VA 201151-1226  
 PH. (703) 631-9630 FAX (703)-631-9177

GEODETIC CONTROL SHEET Ohio Department of Transportation Cuyahoga County Control			State Plane: OHIO (NORTH ZONE) Datum: NAD 83 (95)
County: CUYAHOGA	Name of Station: 90-171.09	Year: 2004	Vertical Datum: NAVD 88
N 201829.62506m	E 667429.96500m	Elevation: 211.68293m	Conversion: US Survey Foot
Lat: 41°28'52.89995"N	Long: 81°41'33.39685"W	Combined Scale Factor: 0.99994020409	
Date: April 29, 2004			

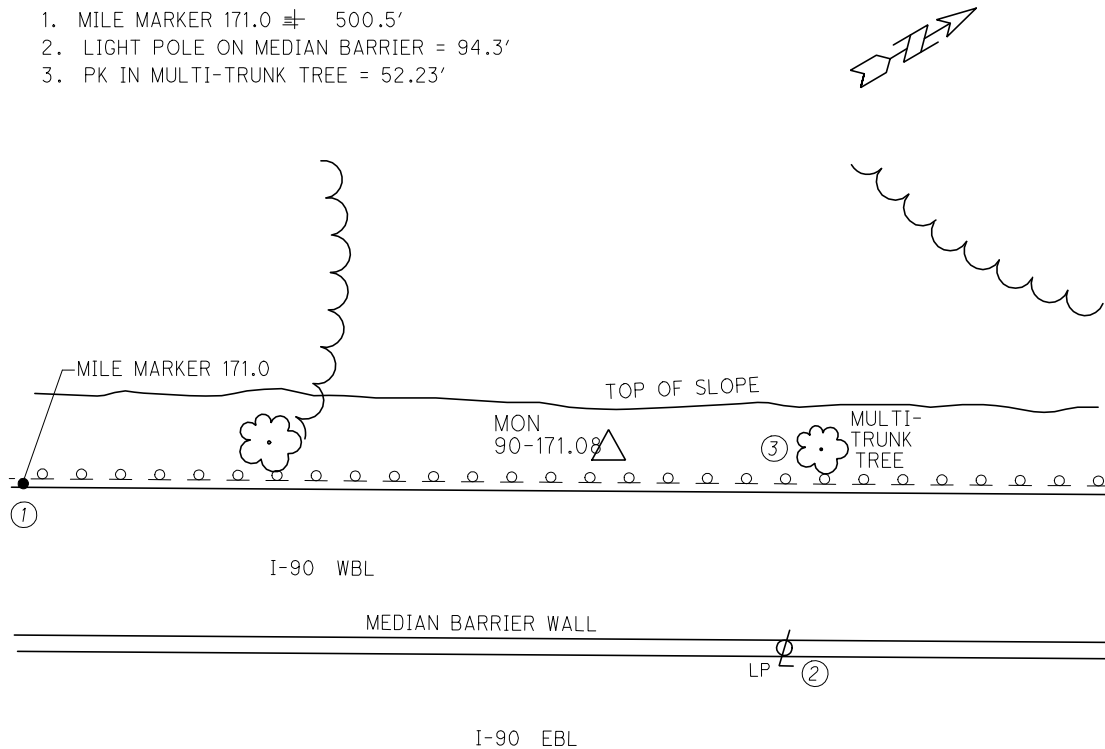
PROJECT COORDINATES:

N 662208.9589'	E 2189857.4214'	Elevation: 694.50'
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SKETCH: NOT TO SCALE

REFERENCES:

1. MILE MARKER 171.0 ± 500.5'
2. LIGHT POLE ON MEDIAN BARRIER = 94.3'
3. PK IN MULTI-TRUNK TREE = 52.23'



# MON 11

## BURGESS & NIPLE, INC.

4160 PLEASANT VALLEY ROAD, CHANTILLY, VA 201151-1226  
 PH. (703) 631-9630 FAX (703)-631-9177

GEODETIC CONTROL SHEET

Ohio Department of Transportation Cuyahoga County Control

State Plane: OHIO (NORTH ZONE)

Datum: NAD 83 (95)

County: CUYAHOGA	Name of Station: 71-244.97	Year: 2004	Vertical Datum: NAVD 88
N 198626.47168m	E 665031.03899m	Elevation: 217.81996m	Conversion: US Survey Foot
Lat: 41°27'09.78017"N	Long: 81°43'18.03036"W	Combined Scale Factor: 0.99994020409	
Date: April 29, 2004			

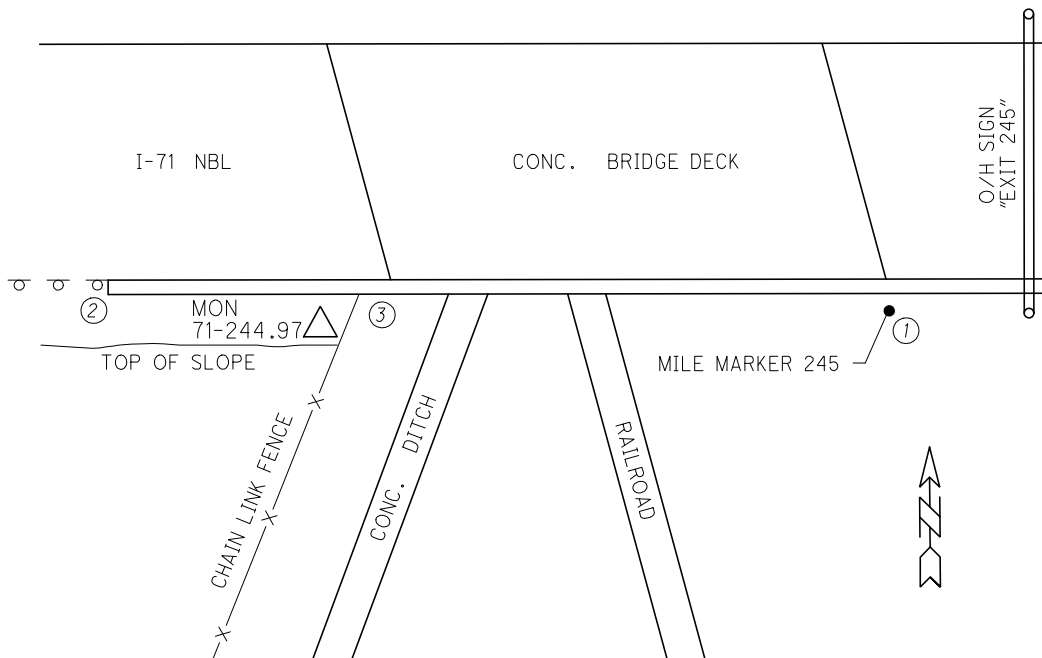
PROJECT COORDINATES:

N 651699.3181'	E 2181986.4743'	Elevation: 714.63'
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SKETCH: NOT TO SCALE

REFERENCES:

1. MILE MARKER 245 = ± 163'
2. PK NAIL SET IN FIRST WOODEN GUARDRAIL POST SOUTH OF BRIDGE = 20.4'
3. CHISELED "X" ON BRIDGE WALL = 9.8'



# MON 12

## BURGESS & NIPLE, INC.

4160 PLEASANT VALLEY ROAD, CHANTILLY, VA 201151-1226  
 PH. (703) 631-9630 FAX (703)-631-9177

GEODETIC CONTROL SHEET Ohio Department of Transportation Cuyahoga County Control			State Plane: OHIO (NORTH ZONE) Datum: NAD 83 (95)
County: CUYAHOGA	Name of Station: 71-245.25	Year: 2004	Vertical Datum: NAVD 88
N 198785.77730m	E 665398.20128m	Elevation: 209.98366m	Conversion: US Survey Foot
Lat: 41°27'14.83740"N	Long: 81°43'02.14981"W	Combined Scale Factor: 0.99994020409	
Date: April 29, 2004			

PROJECT COORDINATES:

N 652222.0046'	E 2183191.1446'	Elevation: 688.92'
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SKETCH: NOT TO SCALE

REFERENCES:

1. SOUTHERN POST ON "EXIT" SIGN = 59.60'
2. LIGHT POLE = 124.60'
3. MILE MARKER 245.2 = 271.33'

