

COUNTY OF YORK SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD 1983)

STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
101	Meters	3683682.653	1091563.836
	U S Survey ft.	12085548.837	3581239.019
	Int'l ft.	12085573.009	3581246.181

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE	ELEVATION
RM1	N24°05'56"W	54.02'	---
RM2	N84°05'40"W	83.46'	---
RM3	S06°45'47"W	482.08'	---

VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation Of Station= 9.98'

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

COUNTY/CITY
YORK COUNTY

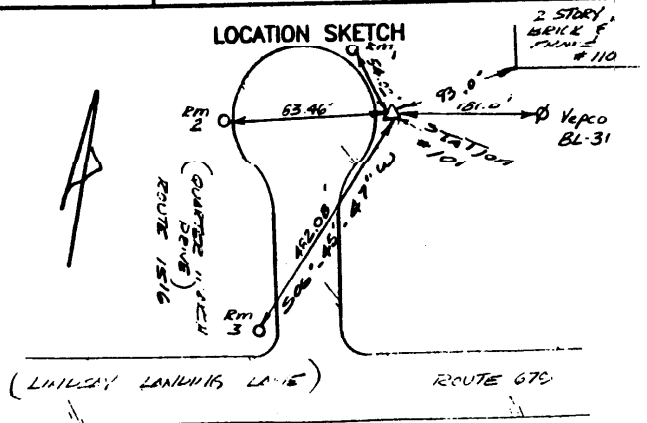
DISTRICT
GRAFTON

STATION NUMBER:

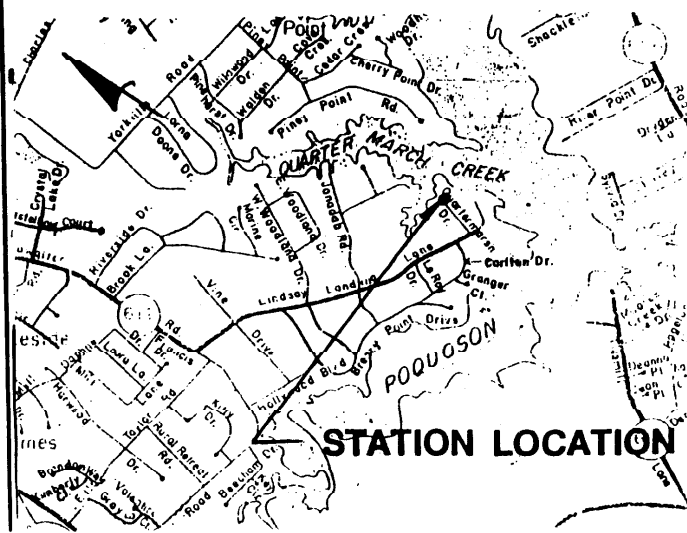
101

FIELD BOOKS
PS 320/10

LOCATION SKETCH



LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

- STATION 101:** A 3-1/4" disk in concrete, approximately 2" below the ground surface, stamped "STATION NO. 101". The disk is located on the east side of the cul-de-sac at the end of Route 1516 (Quartermarsh Drive), 181.0' northeast of utility pole #BL-31, 93.0' west of the southwest corner of the residence at 110 Quartermarsh Drive (two-story brick and frame).
- REFERENCE MARK NO. 1:** A 2" disk in concrete, approximately 3" below the ground surface, stamped "REFERENCE MARK NO. 1". The disk is located 15.0' southwest of the corner of the concrete driveway at 110 Quartermarsh Drive (two-story brick and frame residence), 18.0' southeast of the center line of Route 1516 (Quartermarsh Drive).
- REFERENCE MARK NO. 2:** A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 2". The disk is located 44.0' west of the center line of Route 1516 (Quartermarsh Drive), opposite STATION 101.
- REFERENCE MARK NO. 3:** A 2" disk in concrete, approximately 1" below the ground surface, stamped "REFERENCE MARK NO. 3". The disk is located 18.0' north of the center line of Route 679 (Lindsay Landing Lane), 26.0' west of the center line of Route 1516 (Quartermarsh Drive).

STA 101	WITNESS POST PLACED OF THE STATION	<u>4.0' East</u>
RM1	WITNESS POST PLACED OF THE MARK	<u>3.0' East</u>
RM2	WITNESS POST PLACED OF THE MARK	<u>7.5' West</u>
RM3	WITNESS POST PLACED OF THE MARK	<u>3.5' Northeast</u>

Station Name: 101

Latitude (dms)	37 8 25.07058
Longitude (dms)	76 25 56.47427
State Plane Zone (4502) Virginia South	
Easting (X) in meters	3683682.653
Northing(Y) in meters	1091563.836
Easting (X) in US Survey ft	12085548.837
Northing(Y) in US Survey ft	3581239.019
Easting (X) in international ft	12085573.009
Northing(Y) in international ft	3581246.181
Scale	.99995322
Convergence (dms)	1 15 17.661

COUNTY OF YORK 2005 SUPPLEMENTAL SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD 1983)

STATION NO.	UNITS	NORTHING (Y)	EASTING (X)
102 RESET	Meters	1092308.594	3681320.302
	U.S. Survey Feet	3583682.446	12077798.358

REFERENCE MARK LOCATIONS

OBJECT	BEARING	DISTANCE	ELEVATION
RM 3R	S82°52'55"W	1079.49'	-----

VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station = 49.33' GPS Derived

For Written Description & Additional Data
See Reverse Side

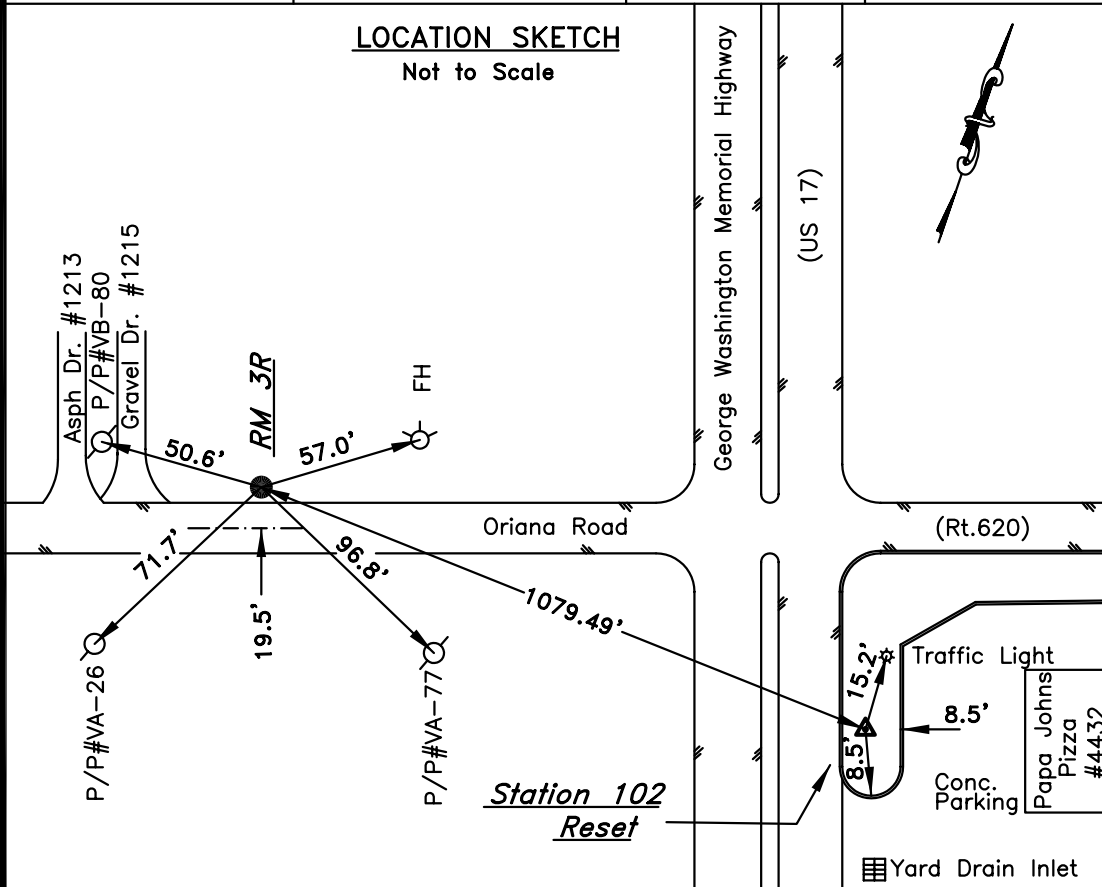
COUNTY/CITY YORK COUNTY DISTRICT GRAFTON

STATION NO.

102-RESET

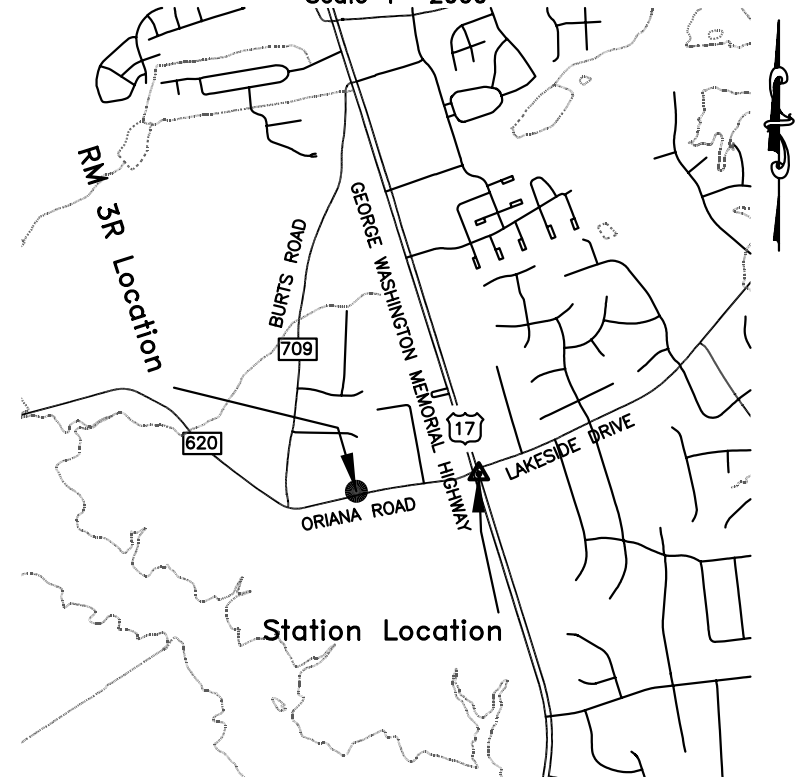
LOCATION SKETCH

Not to Scale



LOCATION MAP

Scale 1"=2000'



STATION DESCRIPTION

Station: 102—Reset

A 3—1/4" Brass Disk set in concrete, approximately 3" below the ground surface, stamped "STATION 102 RESET". The disk is located at the southeast corner of US 17 (George Washington Memorial Highway) and Rt.620 (Lakeside Drive), 34.1' north of a yard drain inlet in the entrance to Papa John's Pizza, 8.5' west of the west back curb for Papa John's Pizza, 15.2' south of a traffic light pole, 8.5' north of the entrance curb to Papa John's Pizza.

Reference Mark No. 1: Destroyed

Reference Mark No. 2: Destroyed.

Reference Mark No. 3R: A 2" Brass disk in concrete, approximately 1" below the ground surface, stamped "REFERENCE MARK NO. 3R". The disk is located on the north side of Oriana Road, 50.6' east of a utility pole #VB—80, 19.5' north of the center of Oriana Road, 57.0' west of a fire hydrant, 71.7' northeast of a utility pole #VA—26, 96.8' northwest of a utility pole #VA—77.

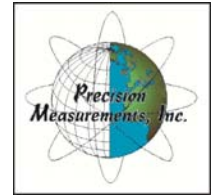
Station Name: 102—Reset

Latitude (dms)	37°08'50.89220"
Longitude (dms)	76°27'31.52329"
State Plane Zone (4502) Virginia South	
Easting (X) in meters	3681320.302
Northing (Y) in meters	1092308.594
Easting (X) in U.S. Survey Feet	12077798.358
Northing (Y) in U.S. Survey Feet	3583682.446
Scale	0.999952735
Convergence (dms)	01°14'19.97310"



Precision Measurements Inc.

Surveyors * GPS * GIS * 3D Scanning * Mappers
Newport News, VA



Station 102 Reset

Close-up View



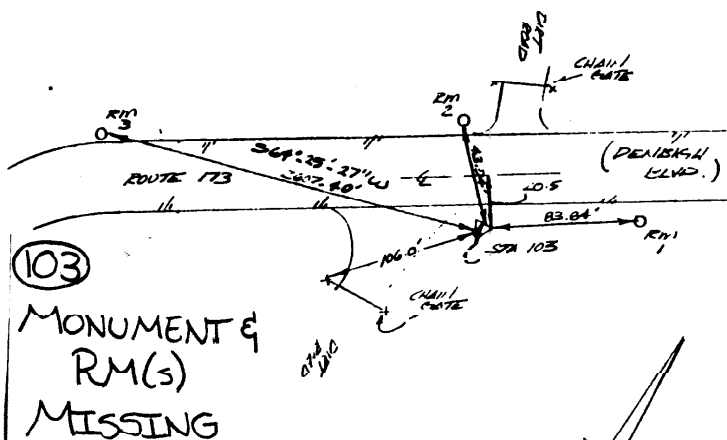
View Looking North-northwest



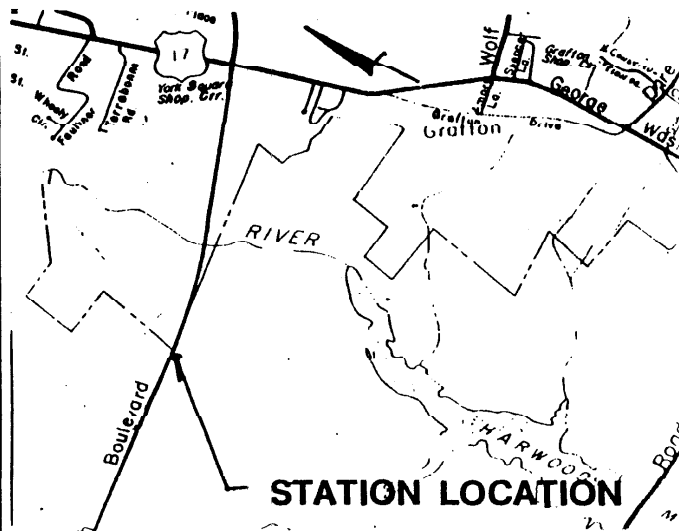
COUNTY OF YORK SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD 1983)				VERTICAL DATA	
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)	Elevations refer to National Geodetic Vertical Datum (1929)	
103	Meters	3678738.626	1094356.385	Elevation Of Station= 48.58'	
	U S Survey ft.	12069328.310	3590400.907	FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE	
	Int'l ft.	12069352.448	3590408.088		
REFERENCE AND AZIMUTH MARK LOCATIONS				COUNTY/CITY YORK COUNTY	DISTRICT GRAFTON
OBJECT	BEARING	DISTANCE	ELEVATION	STATION NUMBER: 103	
RM1	N68°05'10"E	83.84'	— — — —		
RM2	N26°03'51"W	43.94'	— — — —		
RM3	S64°25'27"W	2,607.40'	— — — —		
				FIELD BOOKS PS 320/52	

LOCATION SKETCH



LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

- STATION 103:** A 3-1/4" disk in concrete, approximately 3" below the ground surface, stamped "STATION NO. 103". The disk is located 8.5' south of the edge of the pavement of Route 173 (Denbigh Boulevard), 106.0' north of the western Newport News Waterworks Gate 7A post.
- REFERENCE MARK NO. 1:** A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 1". The disk is located 14.0' southeast of the edge of the pavement of Route 173 (Denbigh Boulevard), east of STATION 103.
- REFERENCE MARK NO. 2:** A 2" disk in concrete, approximately 3" below the ground surface, stamped "REFERENCE MARK NO. 2". The disk is located 10.5' northwest of the edge of the pavement of Route 173 (Denbigh Boulevard), on the center line (projected) of the dirt road on the south side of Route 173 leading to Newport News Waterworks Gate 7A.
- REFERENCE MARK NO. 3:** A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 3". The disk is located on Route 173 (Denbigh Boulevard), 10.0' east of the end of the steel guard rail, 18.0' north of the center line of Route 173.

STA 103	WITNESS POST PLACED	<u>3.5' South</u>
	OF THE STATION	
RM1	WITNESS POST PLACED	<u>3.0' South</u>
	OF THE MARK	
RM2	WITNESS POST PLACED	<u>3.5' North</u>
	OF THE MARK	
RM3	WITNESS POST PLACED	<u>3.0' North</u>
	OF THE MARK	

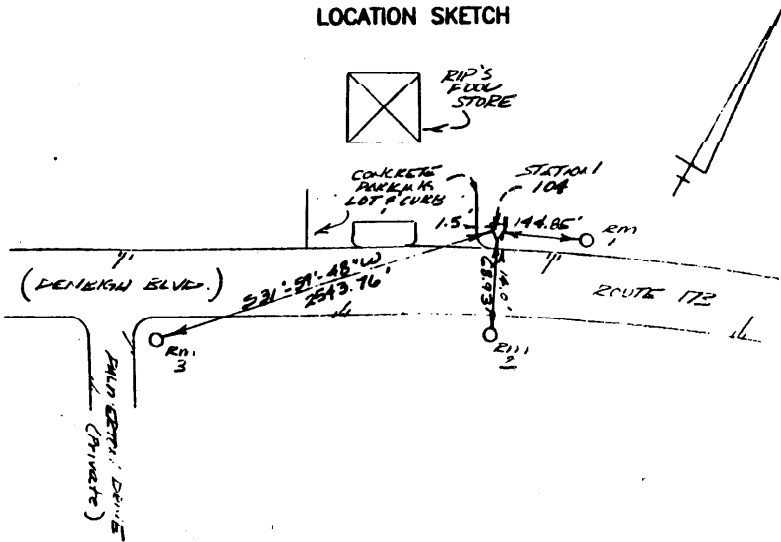
Station Name: 103

Latitude (dms)	37 9 59.10458
Longitude (dms)	76 29 14.35137
State Plane Zone (4502) Virginia South	
Easting (X) in meters	3678738.626
Northing(Y) in meters	1094356.385
Easting (X) in US Survey ft	12069328.310
Northing(Y) in US Survey ft	3590400.907
Easting (X) in international ft	12069352.448
Northing(Y) in international ft	3590408.088
Scale	.99995153
Convergence (dms)	1 13 17.564

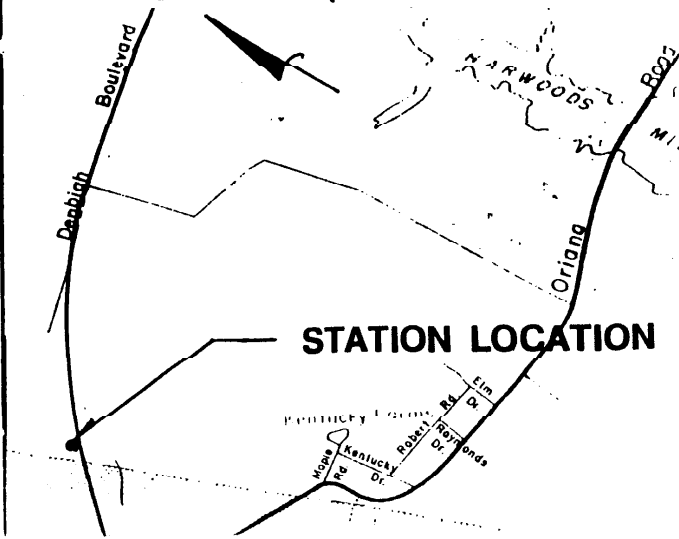
COUNTY OF YORK SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD 1983)				VERTICAL DATA	
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)	Elevations refer to National Geodetic Vertical Datum (1929)	
104	Meters	3677288.510	1093254.795	Elevation Of Station= 56.64'	
	U S Survey ft.	12064570.720	3586786.773	FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE	
	Int'l ft.	12064594.849	3586793.946		
REFERENCE AND AZIMUTH MARK LOCATIONS				COUNTY/CITY	DISTRICT
OBJECT	BEARING	DISTANCE	ELEVATION	YORK COUNTY	GRAFTON
RM1	N40°13'19"E	144.85'	---	STATION NUMBER: 104	
RM2	S54°05'18"E	68.93'	---		
RM3	S31°59'48"W	2,543.76'	---		
				FIELD BOOK: PS 324/37 PS 320/54	

LOCATION SKETCH



LOCATION MAP (Scale: 1"=2000')



STATION LOCATION

STATION DESCRIPTION

- STATION 104:** A 3-1/4" disk in concrete, approximately 2" below the ground surface, stamped "STATION NO. 104". The disk is located on Route 173 (Denbigh Boulevard), immediately north of the north entrance to "Rip's Food Store", 14.0' northwest of the edge of the pavement of Route 173, 1.5' northeast of the edge of the curb on the store entrance road.
- REFERENCE MARK NO. 1:** A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 1". The disk is located 9.0' northwest of the edge of the pavement of Route 173 (Denbigh Boulevard), 58.0' southwest of utility pole #WI-02.
- REFERENCE MARK NO. 2:** A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 2". The disk is located 19.5' southeast of the edge of the pavement of Route 173 (Denbigh Boulevard), opposite STATION 104.
- REFERENCE MARK NO. 3:** A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 3". The disk is located 9.0' south of the edge of the pavement of Route 173 (Denbigh Boulevard), 29.5' east of the center line of Palmerton Drive (private road).

STA 104 **WITNESS POST PLACED** 4.0' Northwest
OF THE STATION

RM1 **WITNESS POST PLACED** 3.5' South
OF THE MARK

RM2 **WITNESS POST PLACED** 3.0' South
OF THE MARK

RM3 **WITNESS POST PLACED** 15.0' East
OF THE MARK

Station Name: 104

Latitude (dms) 37 9 24.37615
Longitude (dms) 76 30 14.06220
State Plane Zone (4502) Virginia South
Easting (X) in meters 3677288.510
Northing(Y) in meters 1093254.795
Easting (X) in US Survey ft 12064570.720
Northing(Y) in US Survey ft 3586786.773
Easting (X) in international ft 12064594.849
Northing(Y) in international ft 3586793.946
Scale .99995213
Convergence (dms) 1 12 41.324

COUNTY OF YORK 2005 SUPPLEMENTAL SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD 1983)

STATION NO.	UNITS	NORTHING (Y)	EASTING (X)
105 RESET	Meters	1091952.893	3678433.019
	U.S. Survey Feet	3582515.451	12068325.664

REFERENCE MARK LOCATIONS

OBJECT	BEARING	DISTANCE	ELEVATION
RM 1	N34°50'13"W	30.94'	-----
RM 2	N73°04'16"E	226.40'	-----
RM 3	N79°49'21"E	1921.49'	-----
USCGS #S265	N68°57'29"E	174.50'	48.56'

VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation of Station = 48.52' GPS Derived

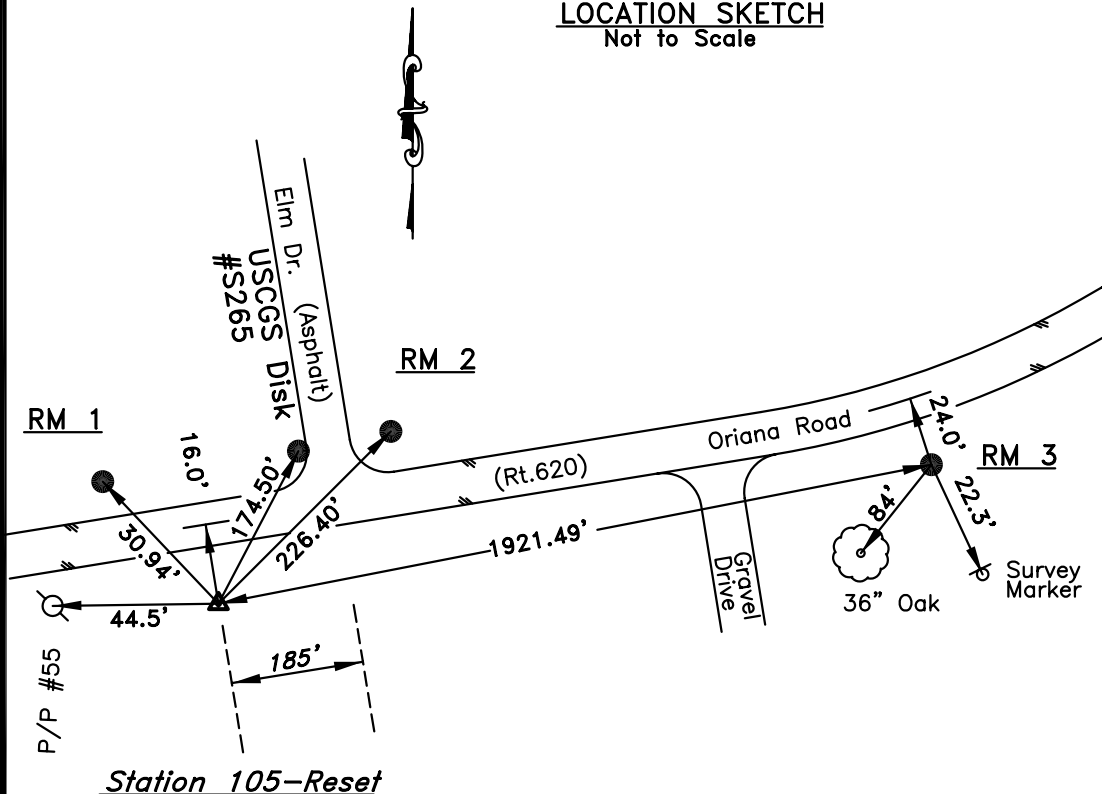
For Written Description & Additional Data
See Reverse Side

COUNTY/CITY YORK COUNTY DISTRICT GRAFTON

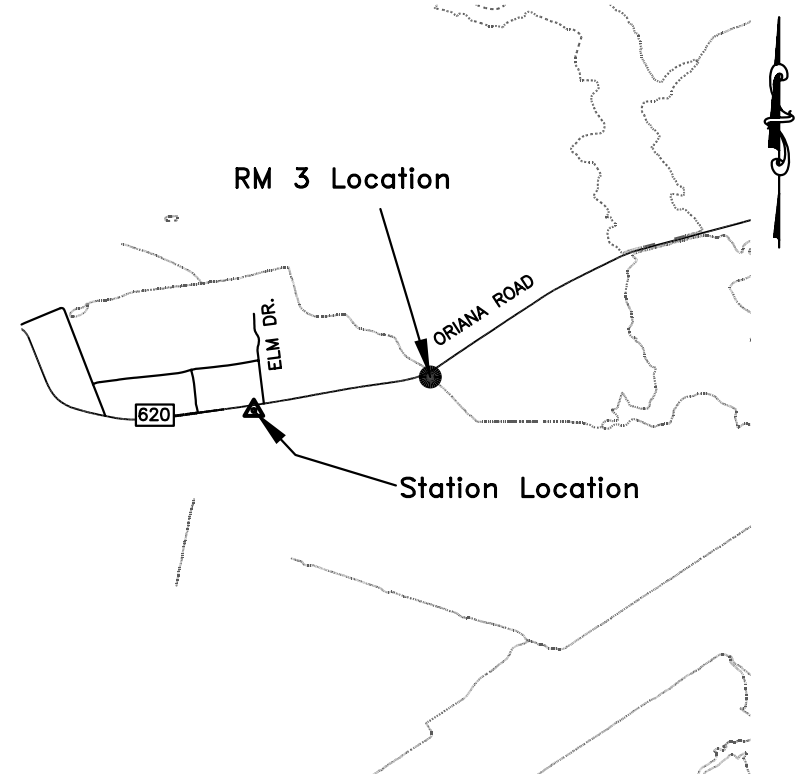
STATION NO.

105 - RESET

LOCATION SKETCH
Not to Scale



LOCATION MAP
Scale 1"=2000'



STATION DESCRIPTION

Station: 105–Reset A 3–1/4” Brass disk set in concrete, approximately 3” below the ground surface, stamped “STATION 105 RESET”. The disk is located 185’+/- west of the center line of Elm Drive, 16.0’ south of the center line of Oriana Road, 44.5’ east of utility pole #55.

Reference Mark No. 1: A 2” Aluminum disk in concrete, approximately 2” below the ground surface, stamped “REFERENCE MARK NO. 1”. The disk is located 2.0’ north of the edge of pavement of Oriana Road (Rt.620), opposite Station 105 Reset.

Reference Mark No. 2: A 2” Aluminum disk in concrete, approximately 2” below the ground surface, stamped “REFERENCE MARK NO. 2”. The disk is located 8.5’ north of the edge of pavement of Oriana Road (Rt.620), 39.0’ east of the center line of Elm Drive (Private Road).

Reference Mark No. 3: A 2” Aluminum disk in concrete, approximately 3” below the ground surface, stamped “REFERENCE MARK NO. 3”. The disk is located 13.5’ south of the edge of pavement of Oriana Road (Rt.620), 91.5’ west of utility pole #509, 84’ east of a 36” Oak, 22.3’ north of a Survey Marker.

USGS Disk #S265 A 3–1/4” Brass disk in concrete protruding 1” out of the gravel. The disk is located on the west edge of Elm Drive, 22’ north of the center line of Oriana Road (Rt.620), 16’ west of the centerline of Elm Drive, the disk is a United States Coastal Geodetic Bench Mark.

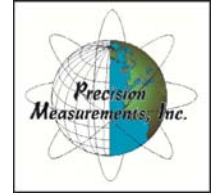
Station Name: 105–Reset

Latitude (dms)	37°08’41.36494”
Longitude (dms)	76°29’28.80902”
State Plane Zone (4502) Virginia South	
Easting (X) in meters	3678433.019
Northing (Y) in meters	1091952.893
Easting (X) in U.S. Survey Feet	12068325.664
Northing (Y) in U.S. Survey Feet	3582515.451
Scale	0.999952912
Convergence (dms)	01°13’08.78948”



Precision Measurements Inc.

Surveyors * GPS * GIS * 3D Scanning * Mappers
Newport News, VA



Station 105 Reset

Close-up View



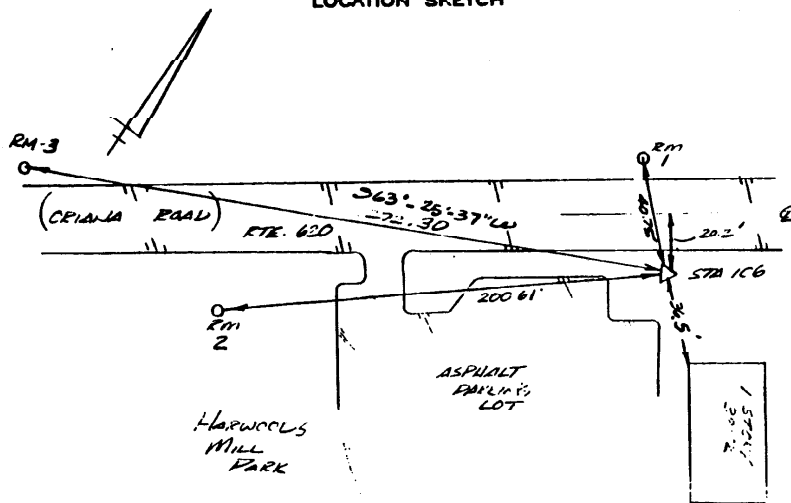
View Looking East



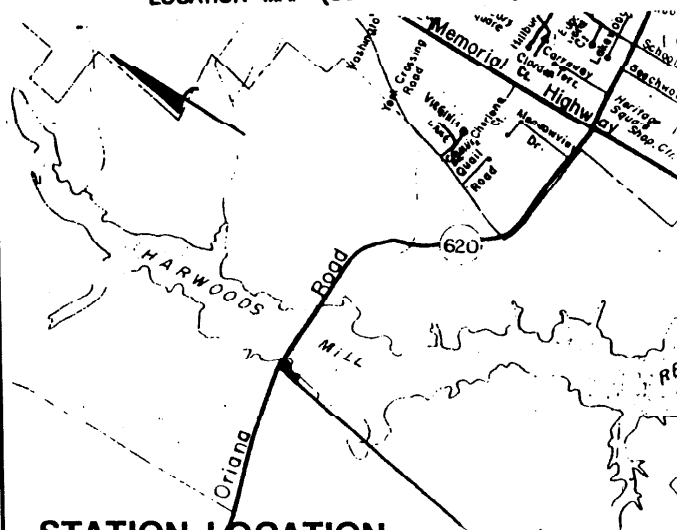
COUNTY OF YORK SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD 1983)				VERTICAL DATA
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)	Elevations refer to National Geodetic Vertical Datum (1929)
106	Meters	3679622.435	1092427.305	Elevation Of Station= 25.20'
	U S Survey ft.	12072227.938	3584071.916	
	Int'l ft.	12072252.083	3584079.084	
REFERENCE AND AZIMUTH MARK LOCATIONS				FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE
OBJECT	BEARING	DISTANCE	ELEVATION	COUNTY/CITY YORK COUNTY
RM1	N54°39'46"W	40.75'	---	DISTRICT GRAFTON
RM2	S46°55'58"W	200.61'	---	STATION NUMBER: 106
RM3	S63°25'37"W	1,272.30'	---	
				FIELD BOOKS PS 320/40

LOCATION SKETCH



LOCATION MAP (Scale: 1"=2000')



STATION LOCATION

STATION DESCRIPTION

- STATION 106:** A 3-1/4" disk in concrete, approximately 3" below the ground surface, stamped "STATION NO. 106". The disk is located at Harwood's Mill Park, 36.5' west of the western corner of the one-story brick park building, 11.0' southeast of the edge of the pavement of Route 620 (Oriana Road).
- REFERENCE MARK NO. 1:** A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 1". The disk is located 6.5' northwest of the edge of the pavement of Route 620 (Oriana Road), 36.0' southwest of utility pole #MC-42.
- REFERENCE MARK NO. 2:** A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 2". The disk is located 1.5' west of the northwest corner of the brick pump house building, 30.5' northeast of utility pole #OC-23.
- REFERENCE MARK NO. 3:** A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 3". The disk is located 28.0' northwest of the edge of the pavement of Route 620 (Oriana Road), 18.0' west of utility pole #KB-93.

STA 106 **WITNESS POST PLACED** 14.5' Southwest
OF THE STATION

RM1 **WITNESS POST PLACED** 2.5' South
OF THE MARK

RM2 **WITNESS POST PLACED** 3.5' South
OF THE MARK

RM3 **WITNESS POST PLACED** 3.5' Northwest
OF THE MARK

Station Name: 106

Latitude (dms) 37 8 55.92752
Longitude (dms) 76 28 40.20959
State Plane Zone (4502) Virginia South
Easting (X) in meters 3679622.435
Northing(Y) in meters 1092427.305
Easting (X) in US Survey ft 12072227.938
Northing(Y) in US Survey ft 3584071.916
Easting (X) in international ft 12072252.083
Northing(Y) in international ft 3584079.084
Scale .99995264
Convergence (dms) 1 13 38.286

COUNTY OF YORK SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD 1983)

STATION NO.	UNITS	EASTING (X)	NORTHING (Y)
107	Meters	3680705.189	1092201.028
	U S Survey ft.	12075780.273	3583329.538
	Int'l ft.	12075804.424	3583336.705

REFERENCE AND AZIMUTH MARK LOCATIONS

OBJECT	BEARING	DISTANCE	ELEVATION
RM1	N66°25'44"W	103.78'	---
RM2	N21°04'12"W	85.17'	---
RM3	N79°21'02"E	1,011.44'	---

VERTICAL DATA

Elevations refer to National Geodetic Vertical Datum (1929)

Elevation Of Station= 42.82'

FOR WRITTEN DESCRIPTION &
ADDITIONAL DATA SEE REVERSE SIDE

COUNTY/CITY
YORK COUNTY

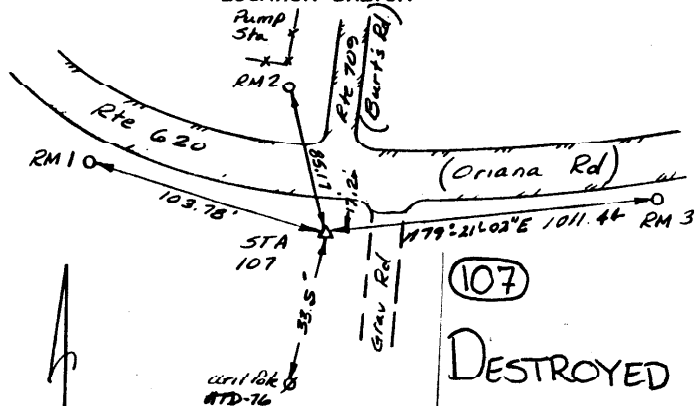
DISTRICT
GRAFTON

STATION NUMBER:

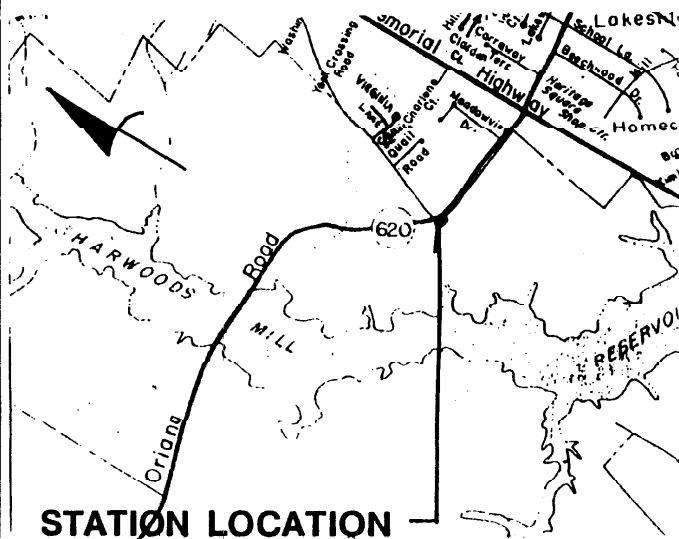
107

FIELD BOOKS:
PS 318/68
PS 320/34
PS 324/60.

LOCATION SKETCH



LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

- STATION 107:** A 3-1/4" disk in concrete, approximately 2" below the ground surface, stamped "STATION NO. 107". The disk is located on Route 620 (Oriana Road) at the intersection with Route 709 (Burt's Road), 8.5' south of the edge of the pavement of Route 620, 33.5' north of utility pole #TD-76.
- REFERENCE MARK NO. 1:** A 2" disk in concrete, approximately 3" below the ground surface, stamped "REFERENCE MARK NO. 1". The disk is located 6.5' south of the edge of the pavement of Route 620 (Oriana Road), 17.0' northeast of utility pole #TA-46.
- REFERENCE MARK NO. 2:** A 2" disk in concrete, approximately 3" below the ground surface, stamped "REFERENCE MARK NO. 2". The disk is located 1.5' south of the southeast corner of the chain link fence surrounding the York County pump station, opposite STATION 107.
- REFERENCE MARK NO. 3:** A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 3". The disk is located 12.5' south of the edge of the pavement of Route 620 (Oriana Road), 40.0' west of utility pole #96.

STA 107 WITNESS POST PLACED 19.0' Southwest
OF THE STATION

RM1 WITNESS POST PLACED 17.0' West
OF THE MARK

RM2 WITNESS POST PLACED 17.0' South
OF THE MARK

RM3 WITNESS POST PLACED 14.0' South
OF THE MARK

Station Name: 107

Latitude (dms)	37 8 47.83428
Longitude (dms)	76 27 56.53856
State Plane Zone (4502) Virginia South	
Easting (X) in meters	3680705.189
Northing(Y) in meters	1092201.028
Easting (X) in US Survey ft	12075780.273
Northing(Y) in US Survey ft	3583329.538
Easting (X) in international ft	12075804.424
Northing(Y) in international ft	3583336.705
Scale	.99995279
Convergence (dms)	1 14 4.791

STATION DESCRIPTION

- STATION 108: A 3-1/4" disk in concrete, approximately 1" below the ground surface, stamped "STATION NO. 108". The disk is located 19.0' west of the edge of the pavement of the southbound lanes of Route 17 (George Washington Highway), 108.5' northeast of utility pole #AT-21.
- REFERENCE MARK NO. 1: A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 1". The disk is located 18.0' west of the edge of the pavement of the southbound lanes of Route 17 (George Washington Highway), 26.5' north of the route direction sign.
- REFERENCE MARK NO. 2: A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 2". The disk is located 11.0' east of the edge of the pavement of the northbound lanes of Route 17 (George Washington Highway), opposite STATION 108.
- REFERENCE MARK NO. 3: A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 3". The disk is located 7.5' east of the edge of the pavement of the northbound lanes of Route 17 (George Washington Highway), 19.5' southwest of the lamp post.

STA 108 WITNESS POST PLACED 42.0' South
OF THE STATION

RM1 WITNESS POST PLACED 2.5' Northwest
OF THE MARK

RM2 WITNESS POST PLACED 11.5' Southeast
OF THE MARK

RM3 WITNESS POST PLACED 19.0' Northeast
OF THE MARK

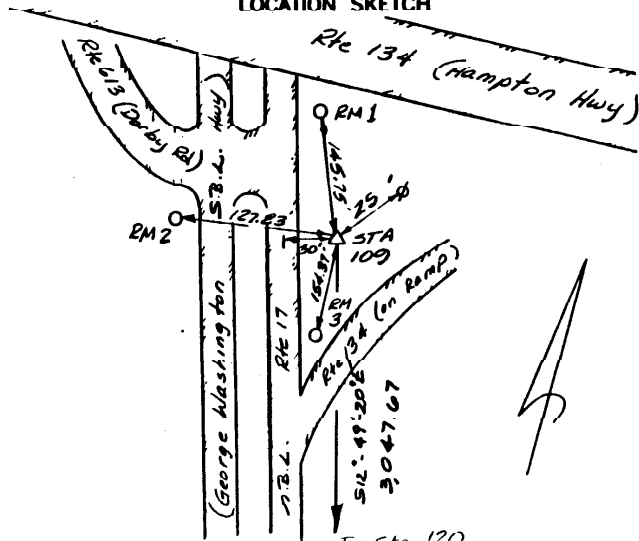
Station Name: 108

Latitude (dms) 37 8 11.23885
Longitude (dms) 76 27 26.91851
State Plane Zone (4502) Virginia South
Easting (X) in meters 3681460.350
Northing(Y) in meters 1091088.967
Easting (X) in US Survey ft 12078257.833
Northing(Y) in US Survey ft 3579681.053
Easting (X) in international ft 12078281.990
Northing(Y) in international ft 3579688.212
Scale .99995349
Convergence (dms) 1 14 22.768

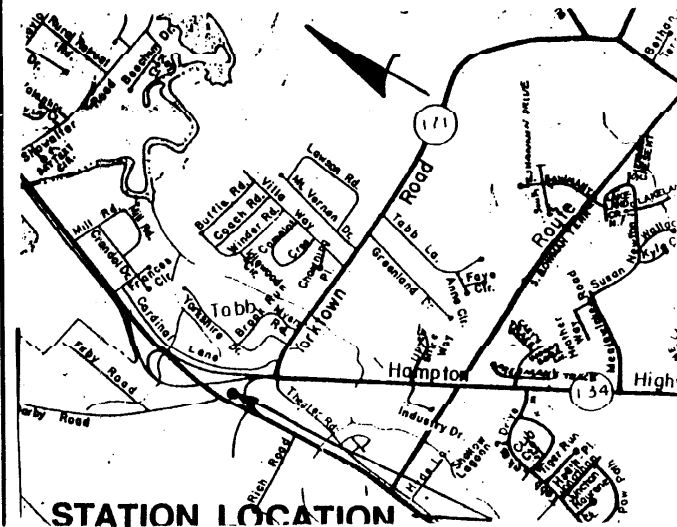
COUNTY OF YORK SURVEY MARK REFERENCE AND RECOVERY DATA

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD 1983)				VERTICAL DATA	
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)	Elevations refer to National Geodetic Vertical Datum (1929)	
109	Meters	3681399.871	1089946.129	Elevation Of Station= 30.37'	
	U S Survey ft.	12078059.409	3575931.591	FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE	
	Int'l ft.	12078083.565	3575938.743		
REFERENCE AND AZIMUTH MARK LOCATIONS				COUNTY/CITY	DISTRICT
OBJECT	BEARING	DISTANCE	ELEVATION	YORK COUNTY	BETHEL
RM1	N14°59'19"W	145.75'	— — — —	STATION NUMBER: 109	
RM2	N87°15'23"W	154.37'	— — — —		
RM3	S14°47'59"E	127.83'	— — — —		
STATION 120	S12°49'20"E	3,047.67	— — — —		
				FIELD BOOKS PS 318/60	

LOCATION SKETCH



LOCATION MAP (Scale: 1"=2000')



STATION LOCATION

STATION DESCRIPTION

- STATION 109:** A 3-1/4" disk in concrete, approximately 2" below the ground surface, stamped "STATION NO. 109". The disk is located 17.5' east of the edge of the pavement of the northbound lanes of Route 17 (George Washington Highway), 25.0' southwest of utility pole #XA-98.
- REFERENCE MARK NO. 1:** A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 1". The disk is located 9.0' east of the edge of the pavement of the northbound lanes of Route 17 (George Washington Highway), 1.0' south of the end of the steel guard rail.
- REFERENCE MARK NO. 2:** A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 2". The disk is located 31.5' north of utility pole #XA-77, 40.0' west of the center line of the southbound lanes of Route 17 (George Washington Highway).
- REFERENCE MARK NO. 3:** A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 3". The disk is located 21.0' east of the edge of the pavement of the northbound lanes of Route 17 (George Washington Highway), 21.0' southeast of the concrete curb.

STA 109 **WITNESS POST PLACED** 24.0' Northeast
 OF THE STATION

RM1 **WITNESS POST PLACED** 5.5' North
 OF THE MARK

RM2 **WITNESS POST PLACED** 30.5' South
 OF THE MARK

RM3 **WITNESS POST PLACED** 7.5' East
 OF THE MARK

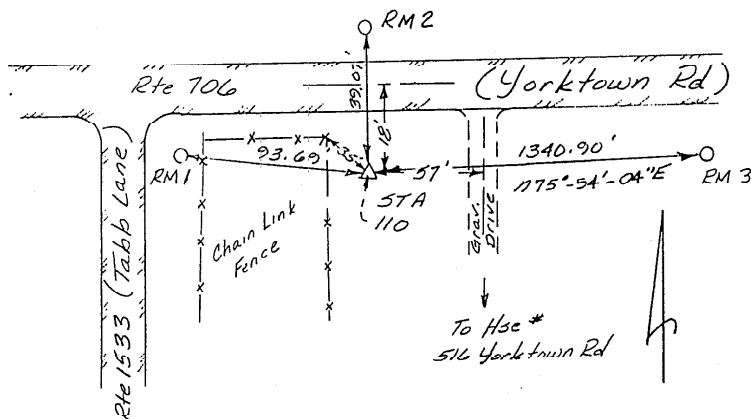
Station Name: 109

Latitude (dms)	37 7 34.21658
Longitude (dms)	76 27 30.36983
State Plane Zone (4502) Virginia South	
Easting (X) in meters	3681399.871
Northing(Y) in meters	1089946.129
Easting (X) in US Survey ft	12078059.409
Northing(Y) in US Survey ft	3575931.591
Easting (X) in international ft	12078083.565
Northing(Y) in international ft	3575938.743
Scale	.99995422
Convergence (dms)	1 14 20.673

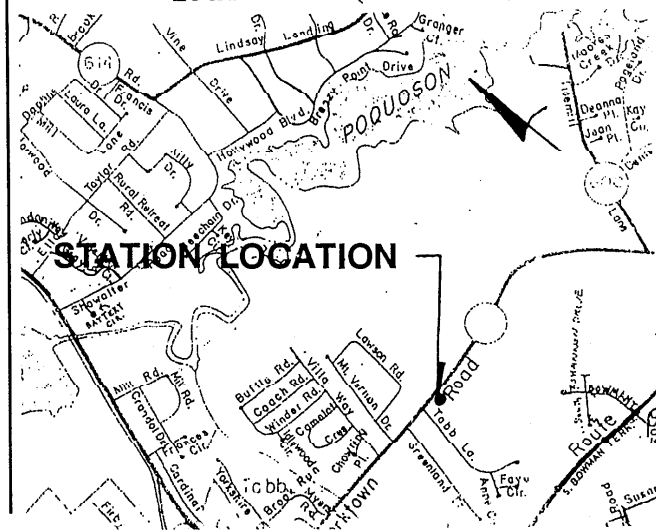
COUNTY OF YORK SURVEY MARK REFERENCE AND RECOVERY DATA APRIL 1990 SUPPLEMENT

VIRGINIA STATE PLANE COORDINATES—SOUTH ZONE (NAD 1983)				VERTICAL DATA	
STATION NO.	UNITS	EASTING (X)	NORTHING (Y)	Elevations refer to National Geodetic Vertical Datum (1929)	
110	Meters	3682583.225	1090022.260	Elevation of Station = 35.60'	
	U.S. Survey Ft.	12081941.779	3576181.365	FOR WRITTEN DESCRIPTION & ADDITIONAL DATA SEE REVERSE SIDE	
	Int'l Ft.	12081965.963	3576188.518		
REFERENCE AND AZIMUTH MARK LOCATIONS				COUNTY/CITY YORK COUNTY	DISTRICT BETHEL
OBJECT	BEARING	DISTANCE	ELEVATION	STATION NUMBER	FIELD BOOKS
RM1	S79°49'43"W	93.69'	---	110	PS 318/40
RM2	N13°50'37"W	39.07'	---		
RM3	N75°54'04"E	1340.90'	---		

LOCATION SKETCH (Not to Scale)



LOCATION MAP (Scale: 1"=2000')



STATION DESCRIPTION

- STATION 110: A 3-1/4" disk in concrete, approximately 1" below the ground surface, stamped "STATION NO. 110". The disk is located 7.5' south of the edge of the pavement of Route 706 (Yorktown Road), 2.0' east of a 48" chain link fence, 84.5' west of utility pole #IB-72.
- REFERENCE MARK NO. 1: A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 1". The disk is located 9.0' south of the edge of the pavement of Route 706 (Yorktown Road), 2.5' west of the 42" chain link fence.
- REFERENCE MARK NO. 2: A 2" disk in concrete, approximately 2" below the ground surface, stamped "REFERENCE MARK NO. 2". The disk is located 10.0' north of the edge of the pavement of Route 706 (Yorktown Road), 68.5' west of utility pole #15.
- REFERENCE MARK NO. 3: A 2" disk in concrete, approximately 1" below the ground surface, stamped "REFERENCE MARK NO. 3". The disk is located 23.0' east of the edge of the pavement of Route 706 (Yorktown Road), 12.5' southwest of utility pole #KB-40.

STA 110 WITNESS POST PLACED 9.0' South
OF THE STATION

RM1 WITNESS POST PLACED 9.0' South
OF THE MARK

RM2 WITNESS POST PLACED 6.5' South
OF THE MARK

RM3 WITNESS POST PLACED 12.5' Northeast
OF THE MARK

Station Name: 110

Latitude (dms) 37 7 35.85286
Longitude (dms) 76 26 42.37277
State Plane Zone (4502) Virginia South
Easting (X) in meters 3682583.225
Northing(Y) in meters 1090022.260
Easting (X) in US Survey ft 12081941.799
Northing(Y) in US Survey ft 3576181.365
Easting (X) in international ft 12081965.963
Northing(Y) in international ft 3576188.518
Scale .99995419
Convergence (dms) 1 14 49.804