



COMMONWEALTH OF MASSACHUSETTS
COUNTY OF NORFOLK

The County of Presidents

**ENGINEERING DEPARTMENT
REGISTRY OF DEEDS BUILDING
649 HIGH STREET
DEDHAM, MA 02026**

JOSEPH M. McNICHOLS
COUNTY SURVEYOR

FRANCIS W. O'BRIEN, DEDHAM, CHAIRMAN
JOHN M. GILLIS, QUINCY
PETER H. COLLINS, MILTON

CLERK:
WALTER F. TIMILTY, MILTON

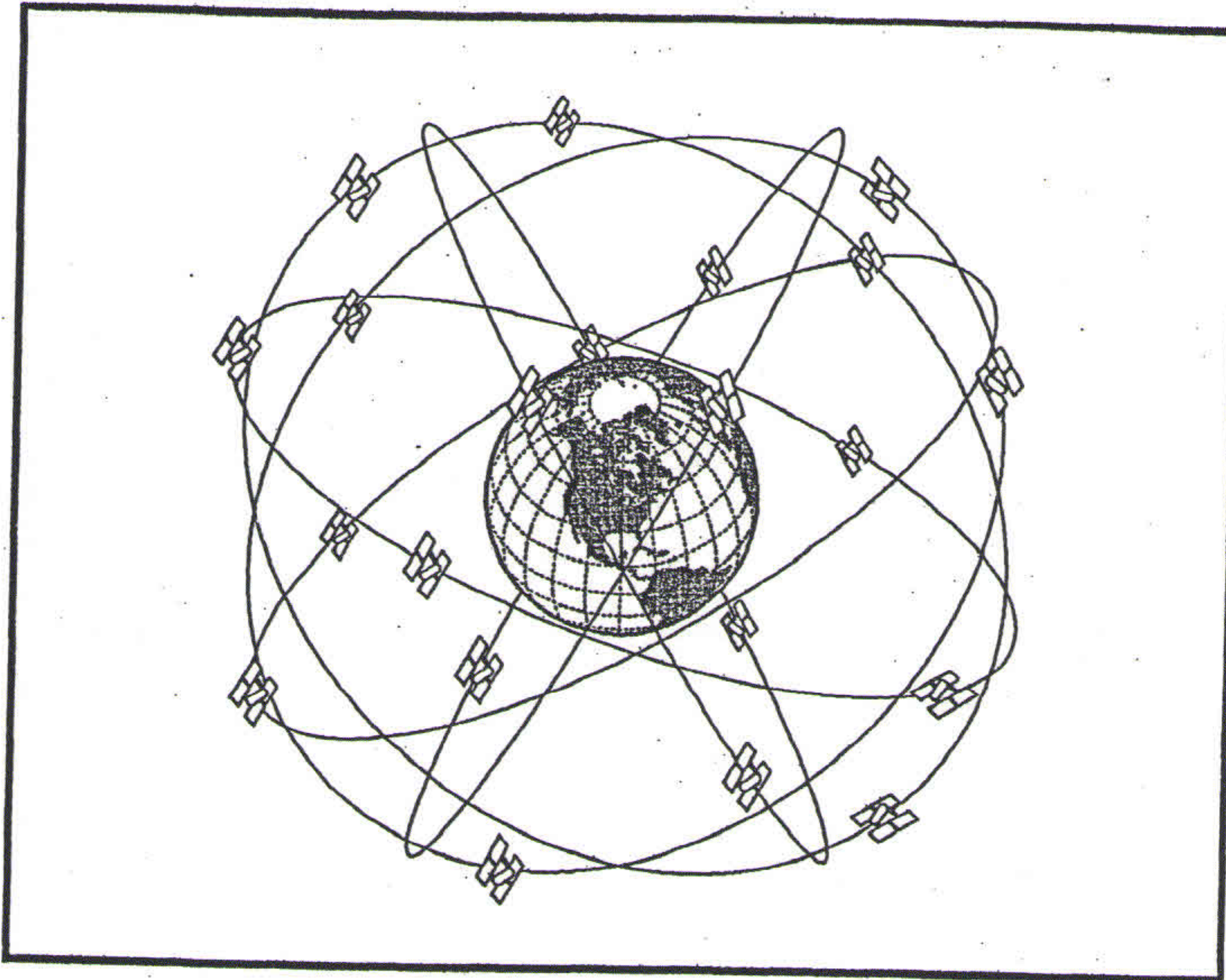
COUNTY DIRECTOR:
DANIEL P. MATTHEWS

TEL: (781) 461-6128

(781) 461-6129

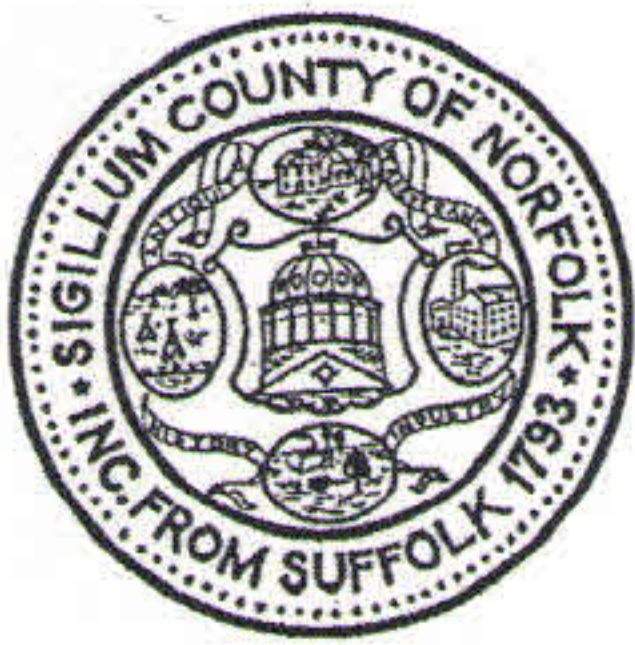
FAX: (781) 461-6148

TOWN OF DEDHAM, MA



**2007-2008 GPS SURVEY
&
DIFFERENTIAL LEVELS
FOR
GEODETIC CONTROL NETWORK**

SERVING THE COMMUNITIES OF: AVON, BELLINGHAM, BRAINTREE, BROOKLINE, CANTON, COHASSET, DEDHAM, DOVER, FOXBOROUGH, FRANKLIN, HOLBROOK, MEDFIELD, MEDWAY, MILLIS, MILTON, NEEDHAM, NORFOLK, NORWOOD, PLAINVILLE, QUINCY, RANDOLPH, SHARON, STOUGHTON, WALPOLE, WELLESLEY, WESTWOOD, WEYMOUTH, WRENTHAM



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JOSEPH M. McNICHOLS
COUNTY SURVEYOR

MEMORANDUM

Date: June 18, 2008

To: Mr. William Keegan, Town Administrator, Town of Dedham

From: Patrick G. Higgins, PLS, Senior Project Manager

Re: The completion of GPS survey work and differential leveling that resulted in a horizontal and vertical geodetic control network for the Town of Dedham.

The Norfolk County Engineering Department performed a GPS survey in Dedham, MA to establish nineteen (19) horizontal control stations throughout town with NAD83-2003 Massachusetts Mainland, State Plane Coordinates (Geoid 2003). Also, differential leveling (closed loop) was performed on the ground throughout the horizontal control point network and other pre-existing bench marks located throughout the Town of Dedham, MA to establish twenty-four (24) bench marks that are based on NAVD 1988 elevations.

Fourteen (14) stainless steel sectional rod monuments were set by driving the rods into the ground until refusal criteria was met, depths varied from 10' to 80'. Within the first three feet of the surface the stainless steel rods were set within a PVC pipe that was filled with clean sand and the rod was encased within a greased tube so that winter frost/thaw heaving action would not affect the location of the rod monument. The PVC piping was capped with a six inch aluminum cover labeled, "Town of Dedham". One N.C.E.D. brass disk was set within hydraulic cement in a ledge outcrop. The remaining

monuments were a combination of pre-existing Massachusetts Highway Department monuments, and U.S. Coast and Geodetic benchmark disk monuments.

The Norfolk County Engineering Department performed static GPS observations using dual frequency receivers with multiple 60 minute occupations being conducted at each horizontal control monument and at first order bench marks located outside Town of Dedham limits. GPS Baselines were processed using the precise ephemeris and an elevation mask of 15°. In post processing the horizontal control network the position of three (3) National Geodetic Survey (NGS) Continuously Operating Reference Stations (CORS) were held as fixed.

<u>STATION</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>
acu5	41°44'36.79696" N	70°53'13.02735" W
CPTU	41°53'58.88883" N	71°53'20.88992" W
zbw1	42°44'08.55936" N	71°28'49.51855" W

The horizontal accuracy of the position of the Town of Dedham control monuments from this GPS survey is $\pm 1\text{cm}$ ($\pm 0.010\text{ meter} = \pm 0.032\text{ U.S.FT}$).

The GPS data was collected by the Norfolk County Engineering Department using dual frequency receivers on the following days:

July 10, 11, 12, 13, 16, 17, 23, 24, 25, 2007

August 15, 16, 22, 23, 24, 27, 28, 29, 30, 31, 2007

September 4, 5, 6, 7, 10, 11, 12, 13, 14, 17, 21, 24, 25, 2007

October 22, 23, 24, 25, 26, 2007

December 12, 20, 21, 26, 2007

January 4, 7, 8, 9, 10, 11, 2008

cc: Daniel P. Matthews, County Director
cc: Joseph McNichols, County Surveyor
cc: David Field, P.E., Director of Infrastructure Engineering, Town of Dedham

JAMES A. MACDONALD, CHAIRMAN
MICHAEL L. BUTLER, VICE-CHAIRMAN
CARMEN DELLOIACONO
PAUL REYNOLDS
SARAH MACDONALD

WILLIAM G. KEEGAN, JR.
TOWN ADMINISTRATOR

NANCY A. BAKER
ASSISTANT TOWN ADMINISTRATOR



DEDHAM TOWN HALL
26 BRYANT STEET
P.O. BOX 306
DEDHAM, MA 02026

TEL (781) 751-9100
FAX (781) 751-9109
TDD (781) 751-9109

WEBSITE
www.dedham-ma.gov

TOWN OF DEDHAM BOARD OF SELECTMEN

August 12, 2008

Daniel P. Matthews
County Director
County of Norfolk
P.O. Box 310
Dedham, MA 02027-0310

RE: Town of Dedham Survey Monuments Project

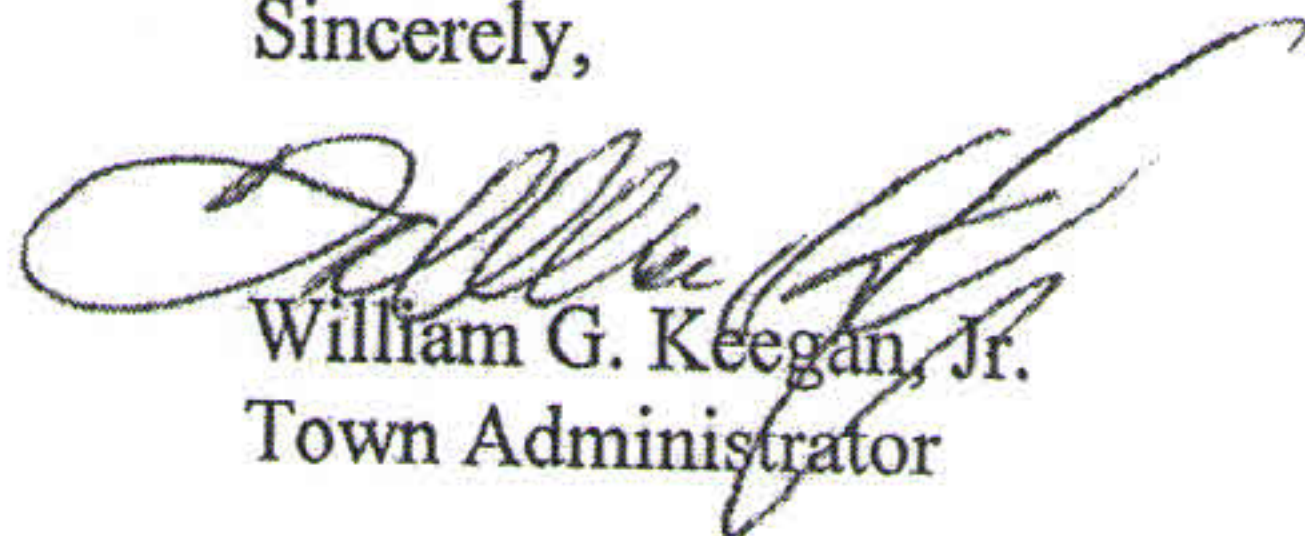
Dear Mr. Matthews,

I would like to take a moment to express my gratitude for assistance of the County Engineering Department in creating a permanent network of survey monuments throughout the Town of Dedham. These permanent monuments will allow the Town to take full advantage of our GIS base mapping and will aid in future project development by private and public entities while ensuring that these projects will be in the proper coordinate system for inclusion in our comprehensive GIS system.

The County's Engineering Department staff, most notably County Surveyor Joseph McNichols, PLS, and Project Manager Patrick Higgins, PLS, are extremely knowledgeable, professional, and thorough. Mr. McNichols and Mr. Higgins worked closely with the Town staff determine the best way to achieve the goals of setting up the survey monument network, and spent countless hours to ensure that the survey data was of the highest quality and accuracy.

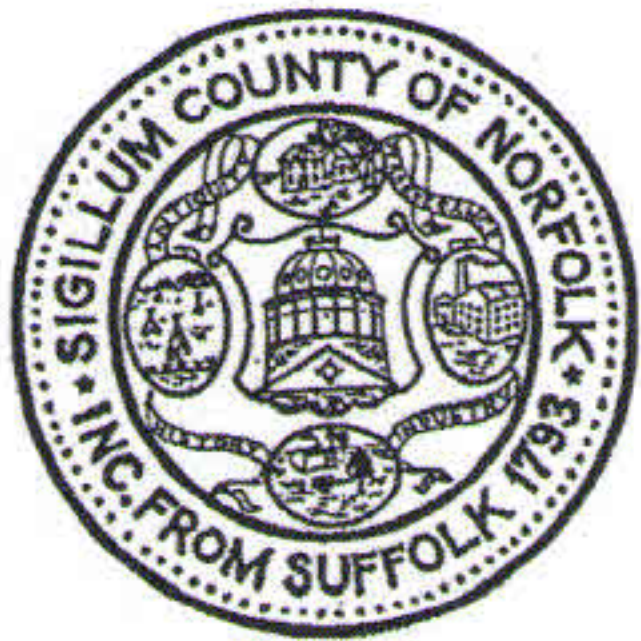
The Town of Dedham appreciates the services provided by the County and specifically I would like to thank you and your staff for helping the Town complete this important project. As always, we look forward to continuing to work with the County on projects such as these in the future.

Sincerely,



William G. Keegan, Jr.
Town Administrator

Cc: Board of Selectmen
David J. Field, P.E., Director of Engineering



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TOWN OF DEDHAM, MA

2008 GPS SURVEY

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Fourteen (14) stainless steel sectional rod monuments were set by driving the rods into the ground until refusal criteria was met, depths varied from 10' to 80'. Within the first three feet of the surface the stainless steel rods were set within a PVC pipe that was filled with clean sand and the rod was encased within a greased tube so that winter frost/thaw heaving action would not affect the location of the rod monument. The PVC piping was capped with a six inch aluminum cover labeled, "Town of Dedham". One N.C.E.D. brass disk was set within hydraulic cement in a ledge outcrop. The remaining monuments were a combination of pre-existing Massachusetts Highway Department monuments, and U.S. Coast and Geodetic benchmark disk monuments.

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Town of Dedham limits. GPS Baselines were processed using the precise ephemeris and an elevation mask of 15°. In post processing the horizontal control network the position of three (3) National Geodetic Survey (NGS) Continuously Operating Reference Stations (CORS) were held as fixed.

<u>STATION</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>
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October 22, 23, 24, 25, 26, 2007

December 12, 20, 21, 26, 2007

January 4, 7, 8, 9, 10, 11, 2008

The U.S.G.S. Bench mark disk "J30 1965" with NAVD 1988 elevation was held fixed (Vertical First Order – Class II). The U.S.G.S. Bench mark disk "J30 1965" is located at #322 Sprague Street and is set in the face of the "Curran Early Childhood Education Center", formerly the "Charles J. Capen Grade School". The NAVD88 orthometric heights were established from the differential leveling (closed loop) that was performed on the ground from "J30 1965" throughout the rest of the horizontal and vertical control point network and other pre-existing bench marks located throughout the Town of Dedham, MA. During GPS processing the orthometric heights (resulting elevations from differential level loops) of all the Dedham horizontal and vertical network control points were held fixed.

DEDHAM 2008
GPS CONTROL & BENCHMARKS
Adjusted Coordinates (U.S.FEET)
Orthometric Elevations

Station	N	E	Orthometric Elev.	Description
10924A	2914288.463	736790.501	212.35	USGS DISK
⊗ 1A	2915883.314	745681.428	96.40	ROD ~ <i>DISTURBED</i>
1B	2915747.231	746212.433	102.01	ROD
2A	2908679.066	753249.865	53.95	ROD
2B	2908020.845	752692.647	46.42	ROD
3A	2918857.757	750538.517	111.96	ROD
3B	2917995.437	750541.335	105.08	ROD
3C	2917796.452	750647.359	98.44	ROD
4A	2923673.362	744391.853	95.20	ROD
4B	2923451.548	743176.141	129.73	ROD
5A	2915246.403	743509.075	112.56	ROD
5B	2915703.016	742499.589	115.14	ROD
6A	2907979.009	749045.818	124.88	ROD
6B	2907600.324	748822.299	120.68	ROD
6C	2907155.022	748450.390	140.12	ROD
61D	2915951.495	743812.416	111.485	USGS DISK
61E	2915645.042	747223.574	122.13	USGS DISK
CHS12A	2920403.954	745827.646	93.58	C.H.S.DISK
CHS1A	2921789.068	735363.345	142.40	C.H.S.DISK
CHS4A	2914530.062	737425.854	193.285	C.H.S.DISK

DEDHAM 2008

GPS CONTROL & BENCHMARKS

Adjusted Coordinates (U.S.FEET)

Orthometric Elevations

Station	N	E	Orthometric	
			Elev.	Description
CHS9A	2909292.284	751696.997	122.35	C.H.S.DISK
DH10	2915673.858	739787.463	126.12	NCED DISK
DH11	2909293.320	751763.301	122.09	NCED SPKS

Benchmarks with Orthometric Elevations (NAVD 1988)

Locations are Approximate

Station	N	E	Elev.	Description
61A	2915558.	739668.	123.59	USGS DISK
61B	2916957.	741344.	125.225	USGS DISK
61F	2915622.	748114.	91.39	USGS DISK
61LA	2912065.	748323.	147.89	USGS DISK
MHD7403	2914240.	745333.	93.155	USGS DISK

Outside Town of Dedham, MA limits

Station	N	E	Elev.	Description
DH7	2941411.285	738852.425	141.80	NCED DISK
DH8	2924583.182	759030.593	38.12	NCED DISK
DH9	2900761.064	750557.953	54.79	NCED DISK

DEDHAM 2008
GPS CONTROL & BENCHMARKS
Adjusted Coordinates (Meters)
Orthometric Elevations

Station	N	E	Orthometric Elev.	Description
10924A	888276.900224	224574.193748	64.725000	USGS DISK
Ø1A	888763.011722	227284.153974	29.383000	ROD ~ DISTURBED
1B	888721.533556	227446.004510	31.092000	ROD
2A	886567.152389	229591.017980	16.442000	ROD
2B	886366.526362	229421.177590	14.149000	ROD
3A	889669.623682	228764.597499	34.125000	ROD
3B	889406.788010	228765.456516	32.028000	ROD
3C	889346.137245	228797.772766	30.004000	ROD
4A	891137.422980	226891.090622	29.019000	ROD
4B	891069.814081	226520.540927	39.542000	ROD
5A	888568.880900	226622.019371	34.309000	ROD
5B	888708.056757	226314.327330	35.095000	ROD
61D	888783.793352	226714.477903	33.981000	USGS DISK
61E	888690.386333	227754.200752	37.225000	USGS DISK
6A	886353.774740	228309.621894	38.064000	ROD
6B	886238.351142	228241.493354	36.783000	ROD
6C	886102.622764	228128.135255	42.707000	ROD
CHS12A	890140.905501	227328.721096	28.523998	C.H.S.DISK
CHS1A	890563.088986	224139.195921	43.405105	C.H.S.DISK
CHS4A	888350.539532	224767.849813	58.913000	C.H.S.DISK

DEDHAM 2008

GPS CONTROL & BENCHMARKS

Adjusted Coordinates (Meters)

Orthometric Elevations

Station	Orthometric			Description
	N	E	Elev.	
CHS9A	886754.061652	229117.702910	37.294711	C.H.S.DISK
DH10	888699.169382	225487.669775	38.442000	NCED DISK
DH11	886754.377514	229137.912465	37.213000	NCED SPKS

Benchmarks with Orthometric Elevations (NAVD 1988)

Locations are Approximate

Station	N	E	Elev.	Description
61A				
61B				
61F	888683	228025	27.857000	USGS DISK
61LA				
MHD7403				

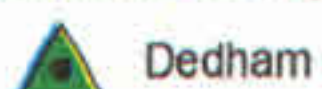
Outside Town of Dedham, MA limits

DH7	896543.952644	225202.669251	43.221000	NCED DISK
DH8	891414.736760	231352.987371	11.619000	NCED DISK
DH9	884153.741248	228770.520899	16.702000	NCED DISK



Legend

Monument Type



Dedham

**DISTURBED ~ NEW TRAFFIC LIGHT
GEODETIC & BENCH MARK MAP
POINT 1A**

1 inch equals 80 feet



DEDHAM GIS

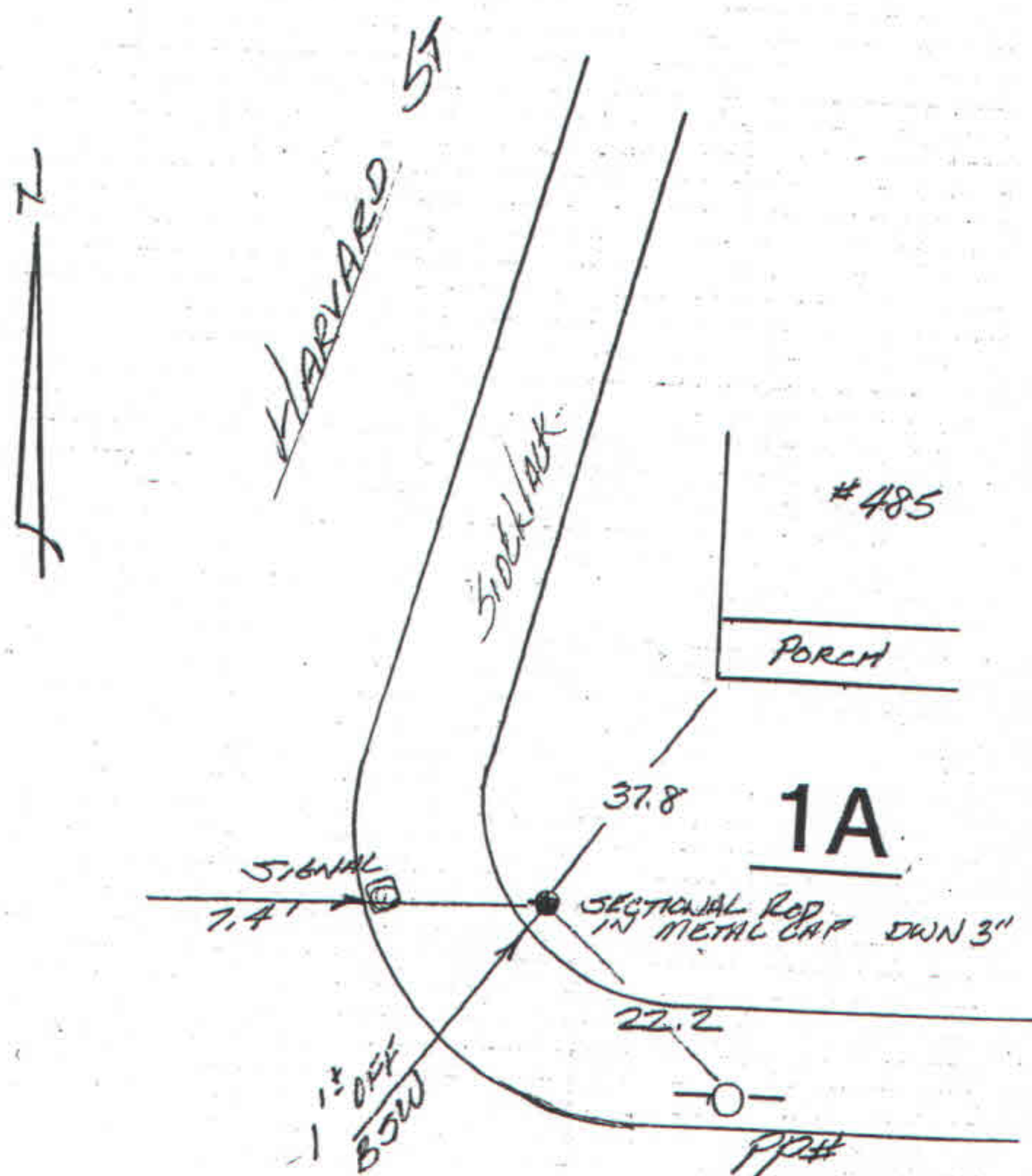
TOWN OF DEDHAM, MASSACHUSETTS

2008 TOWN OF DEDHAM, MA
GEODETIC HORIZONTAL & VERTICAL CONTROL
 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
 (NAVD88-ORTHOMETRIC ELEVATIONS)
 VALUES IN U.S. SURVEY FEET & METERS

PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT
 649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 1A		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-14'-55.87931671" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-10'-09.76592975" W	U.S.FEET	2915883.314	745681.428	96.400
GEOID HEIGHT:	(-28.192575) (M)	METERS	888763.011720	227284.153974	29.383
CONVERGENCE ANGLE: 0°-13'-19.51435"		S.F.: 0.999964903		COMBINED S.F.: 0.999964716	



HIGH ST

2011
 DISTURBED WHEN NEW TRAFFIC LIGHT
 INSTALLED

2011 ~ DISTURBED

1A – GPS Survey Monument located at the northeast corner of the intersection of Harvard Street and High Street in the Town of Dedham, MA

The point is a stainless steel rod with rounded tip and punch within a sleeve.
[State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



1A – GPS Survey Monument located at the back of the bituminous sidewalk



1A – GPS Survey Monument located at the northeast corner of the intersection of Harvard Street and High Street in the Town of Dedham, MA

The point is a stainless steel rod with rounded tip and punch within a sleeve.
[State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



1A – GPS Survey Monument located at the back of the bituminous sidewalk





Legend

Monument Type



Dedham

**GEODETIC & BENCH MARK MAP
POINT 1B**

1 inch equals 80 feet



DEDHAM GIS

TOWN OF DEDHAM, MASSACHUSETTS

PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT
649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

STATION: 1B

DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH

GEOGRAPHIC POSITION

STATE PLANE COORD.(NAD83)

VERT. DATUM (NAVD88)

LATITUDE	42°-14'-54.51459455" N
----------	------------------------

NORTHING

EASTING

ORTHOMETRIC HEIGHT	
--------------------	--

LONGITUDE	71°-10'-02.71254699" W
-----------	------------------------

U.S. FEET

2915747.231

746212.433

102.010

GEOID HEIGHT:	(-28.191835) (M)
---------------	------------------

METERS

888721.533556

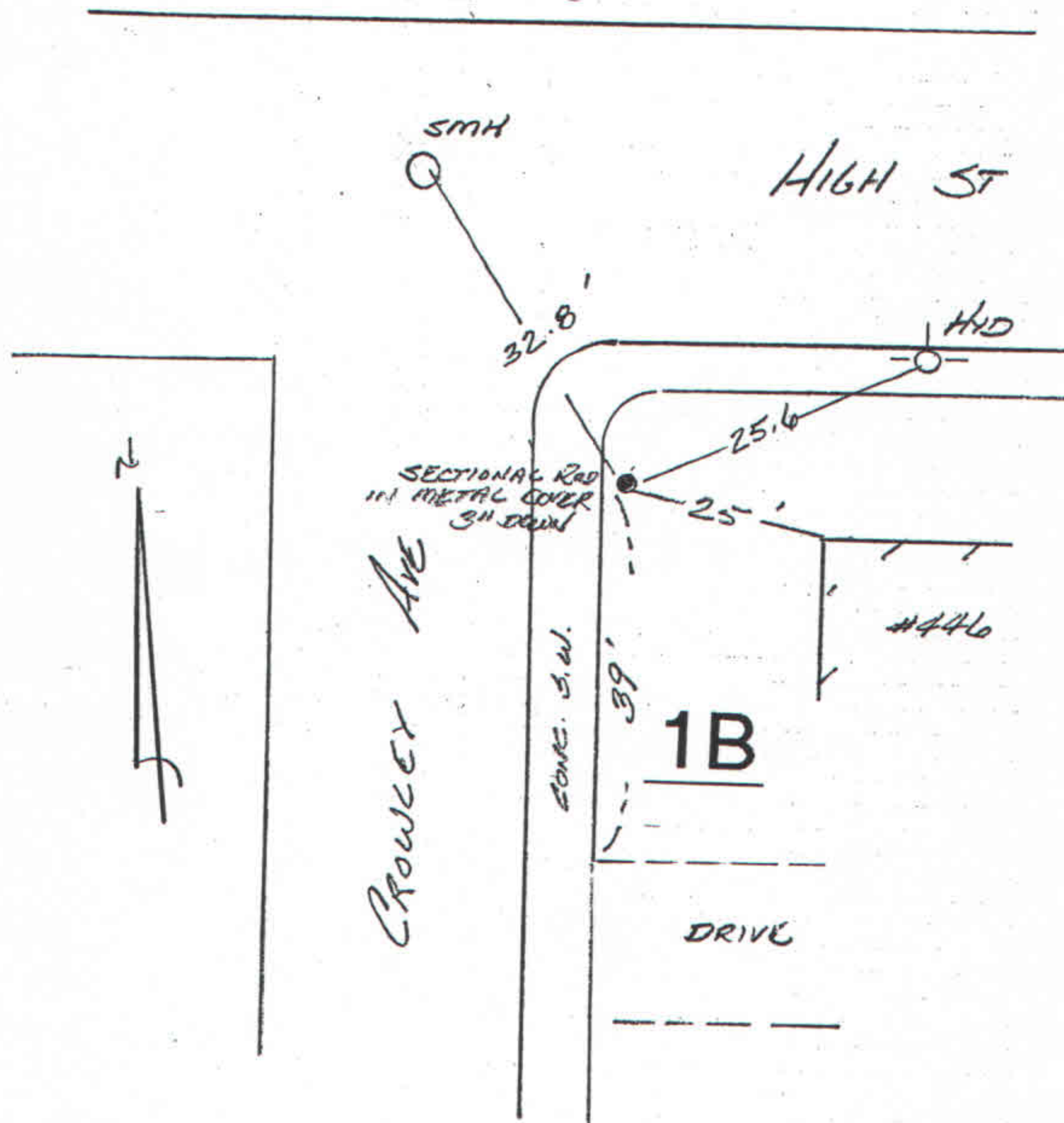
227446.004510

31.092

CONVERGENCE ANGLE: 0°-13'-24.25231"

S.F.: 0.999964898

COMBINED S.F.: 0.999964443



1B – GPS Survey Monument located at the southeast corner of the intersection of Crowley Ave. and High Street in the Town of Dedham, MA

The point is a stainless steel rod with rounded tip and punch within a sleeve.
[State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



1B – GPS Survey Monument located in landscape bed





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT 2A

1 inch equals 80 feet



TOWN OF DEDHAM, MASSACHUSETTS

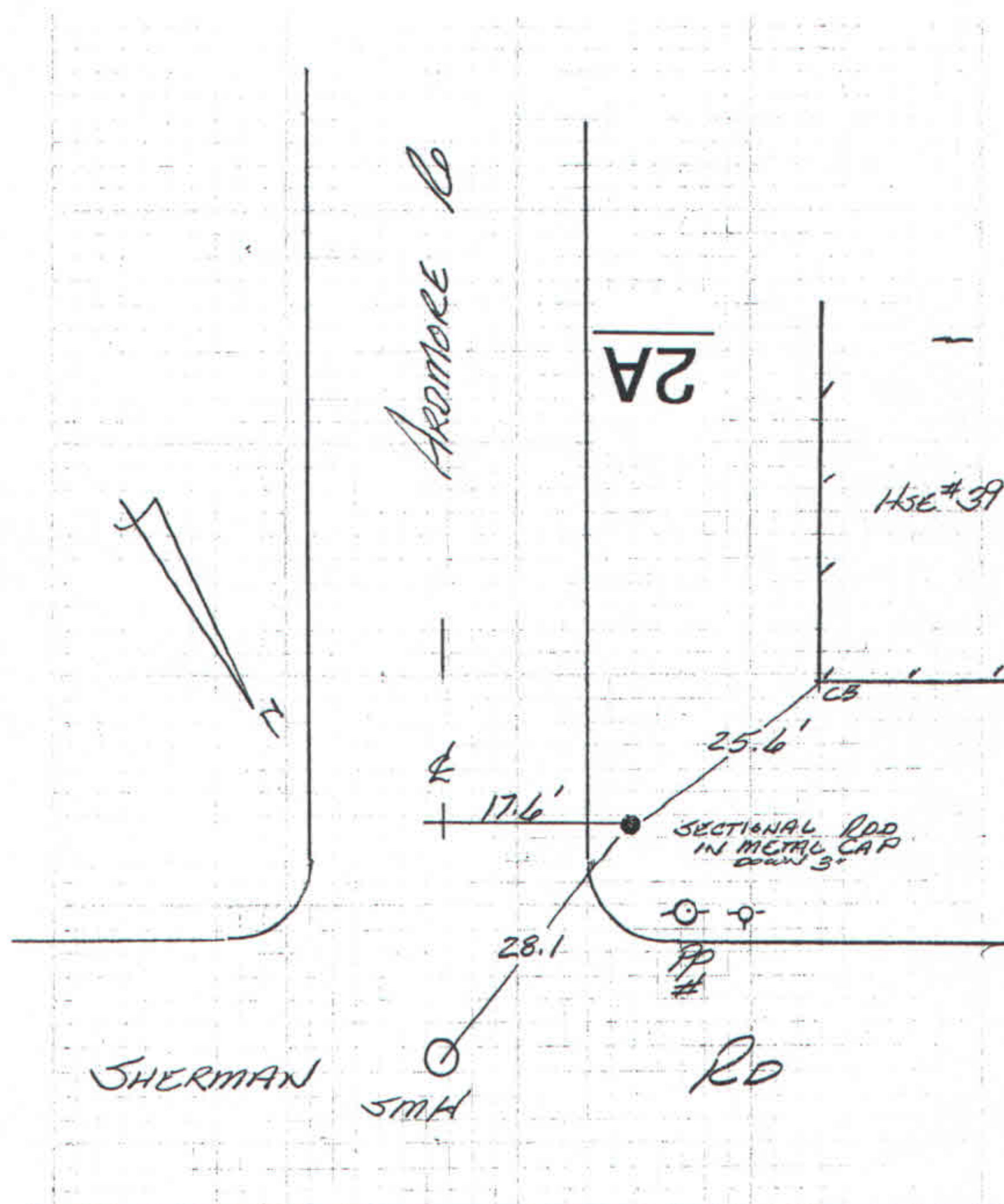
2008 TOWN OF DEDHAM, MA
GEODETIC HORIZONTAL & VERTICAL CONTROL
 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
 (NAVD88-ORTHOMETRIC ELEVATIONS)
 VALUES IN U.S. SURVEY FEET & METERS

PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT
 649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING

THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 2A		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-13'-44.40828002" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-08'-29.53583465" W	U.S.FEET	2908679.066	753249.865	53.950
GEOID HEIGHT:	(-28.218164) (M)	METERS	886567.152	229591.018	16.442
CONVERGENCE ANGLE: 0°-14'-26.84178"		S.F.: 0.999964672		COMBINED S.F.: 0.999966520	

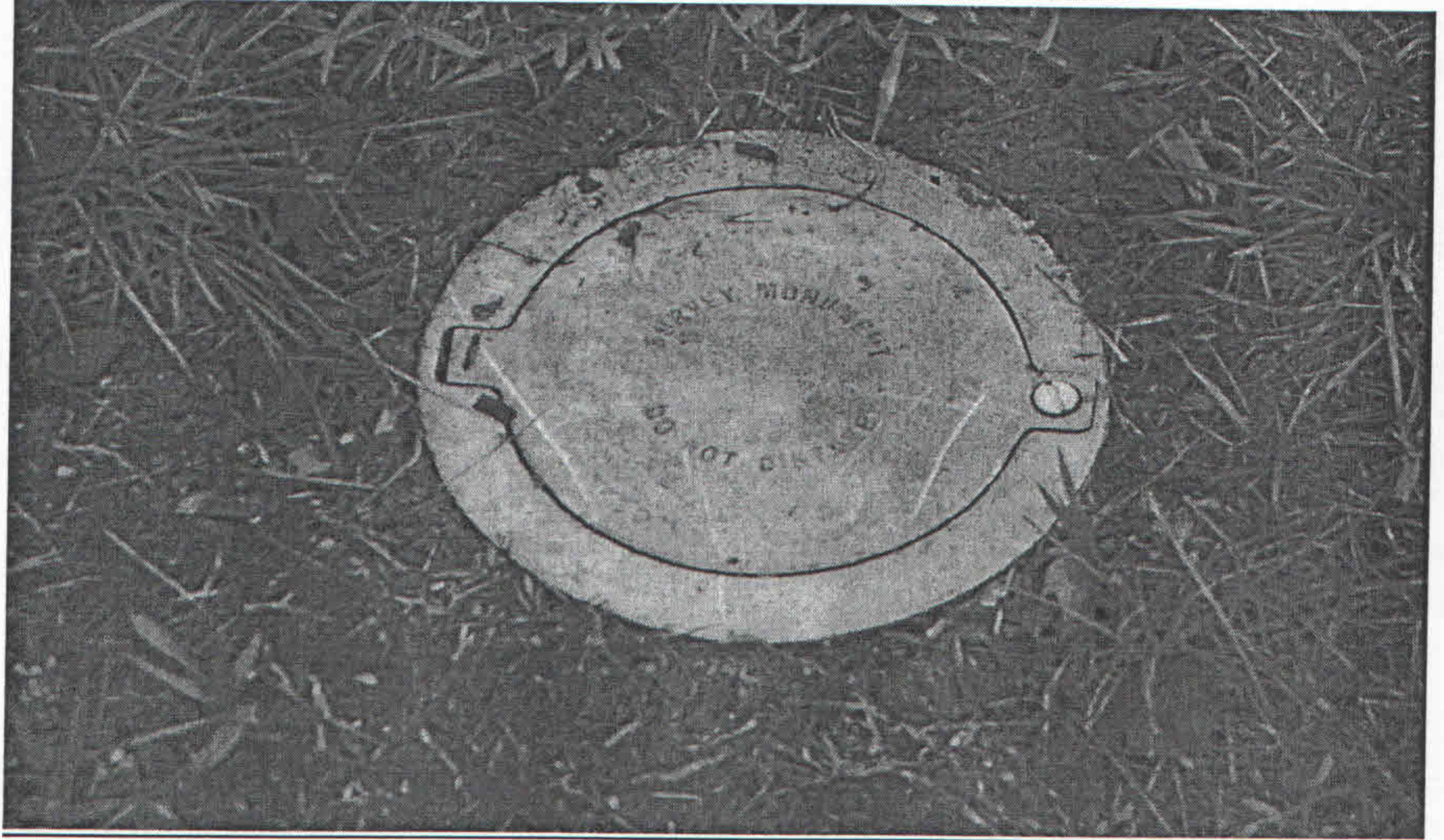


2A – GPS Survey Monument located at the northwest corner of the intersection of Ardmore Road and Sherman Road in the Town of Dedham, MA

The point is a stainless steel rod with rounded tip and punch within a sleeve.
[State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



2A – GPS Survey Monument located in front lawn of #39 Sherman Road.





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT 2B

1 inch equals 80 feet



TOWN OF DEDHAM, MASSACHUSETTS

2008 TOWN OF DEDHAM, MA
GEODETIC HORIZONTAL & VERTICAL CONTROL
 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
 (NAVD88-ORTHOMETRIC ELEVATIONS)
 VALUES IN U.S. SURVEY FEET & METERS

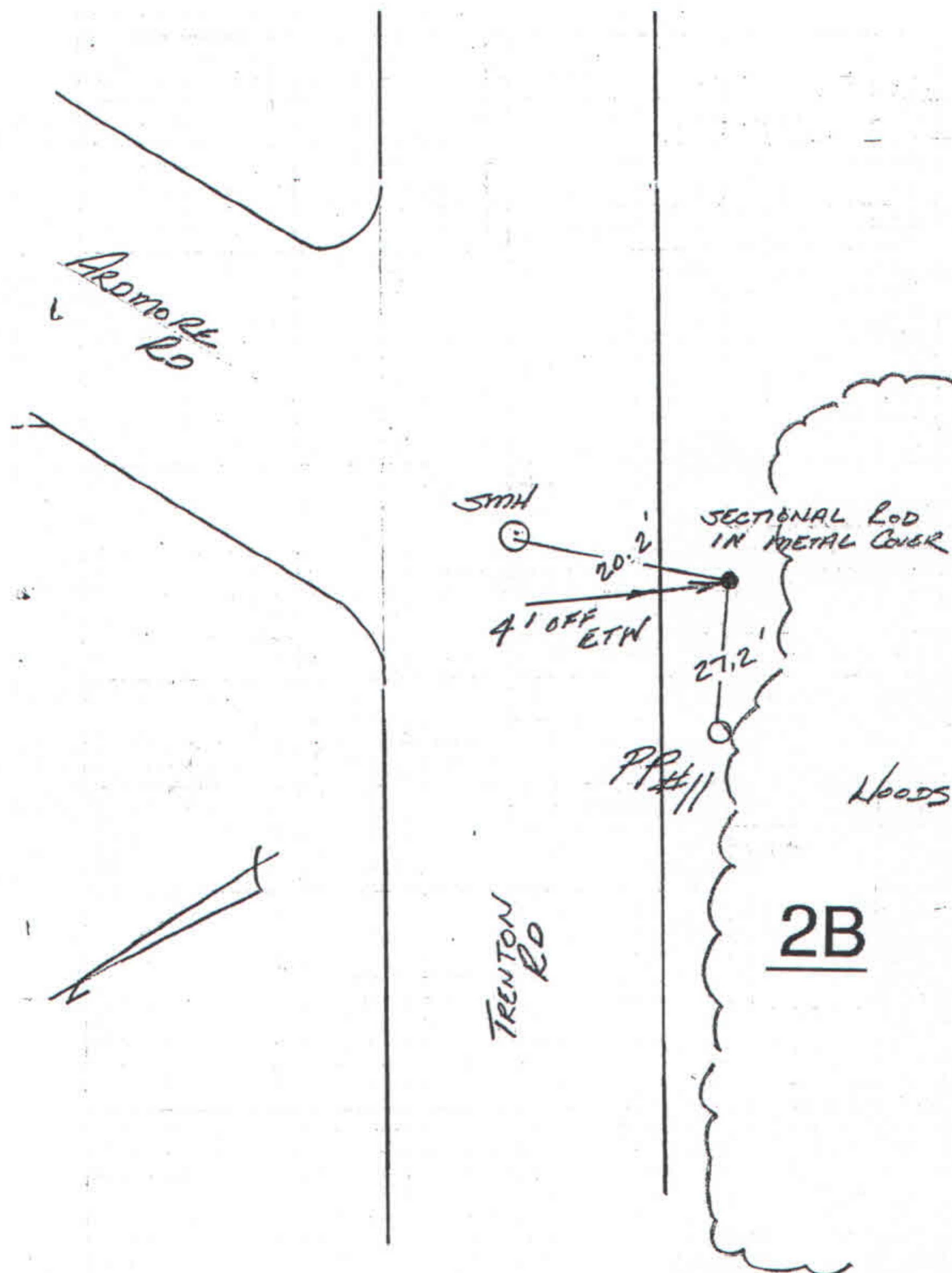
PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT

649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING

THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 2B		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-13'-37.92893672" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-08'-36.97904412" W	U.S.FEET	2908020.845	752692.647	46.420
GEOID HEIGHT:	(-28.224472) (M)	METERS	886366.526	229421.178	14.149
CONVERGENCE ANGLE: 0°-14'-21.84197"		S.F.: 0.999964657		COMBINED S.F.: 0.999966866	



2B – GPS Survey Monument located at the southwest side of the intersection of Trenton Road and Ardmore Road in the Town of Dedham, MA

The point is a stainless steel rod with rounded tip and punch point within a sleeve.
[State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



2B– GPS Survey Monument located four feet off of the edge of the bituminous roadway of Trenton Road.





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT 3A

1 inch equals 80 feet



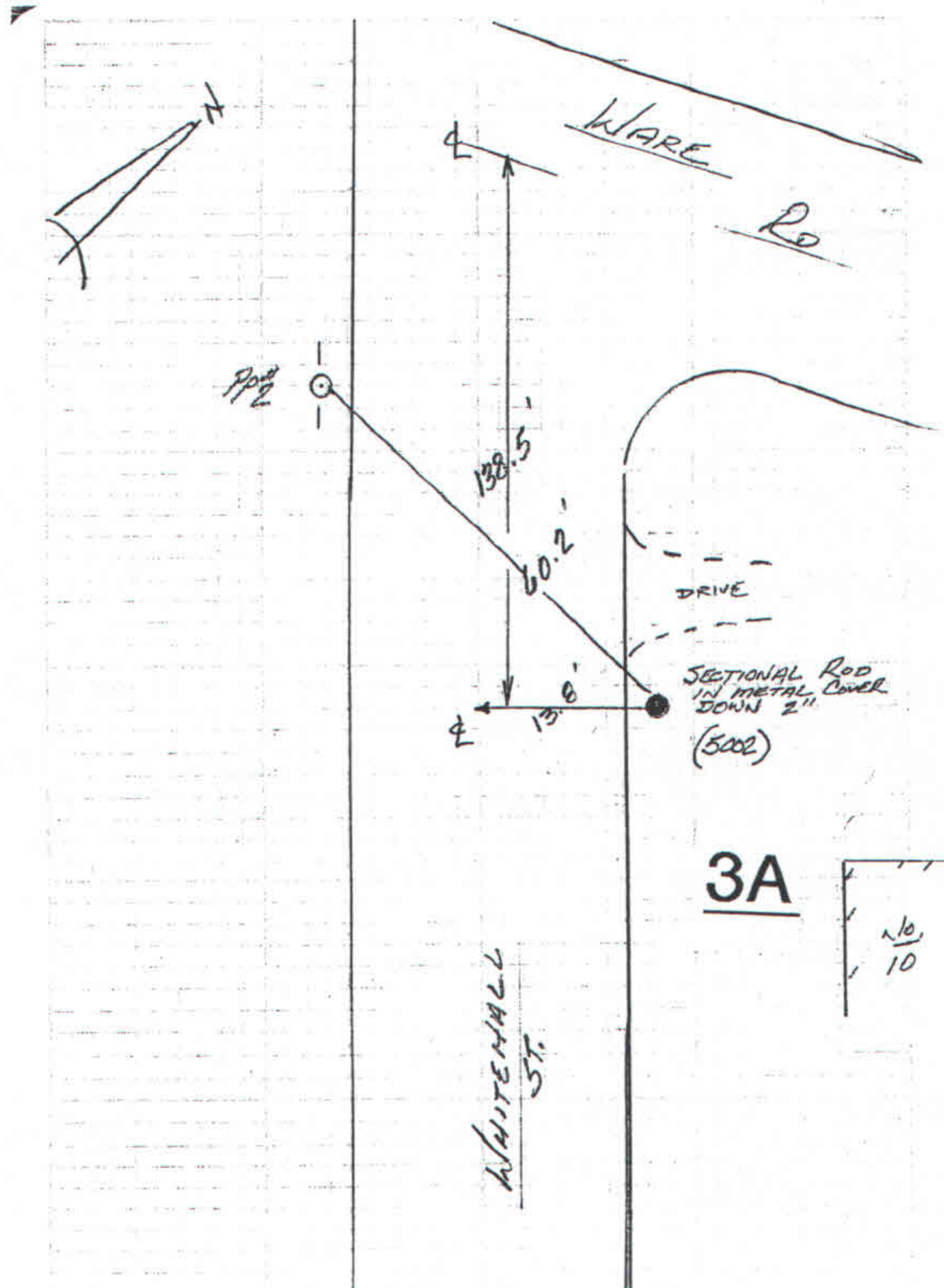
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2008 TOWN OF DEDHAM, MA
GEODETIC HORIZONTAL & VERTICAL CONTROL
 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
 (NAVD88-ORTHOMETRIC ELEVATIONS)
 VALUES IN U.S. SURVEY FEET & METERS

PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT
 649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 3A		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-15'-25.07200033" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-09'-05.02265836" W	U.S.FEET	2918857.757	750538.517	111.960
GEOID HEIGHT:	(-28.152687) (M)	METERS	889669.624	228764.597	34.125
CONVERGENCE ANGLE: 0°-14'-03.00427"		S.F.: 0.999965032		COMBINED S.F.: 0.999964095	

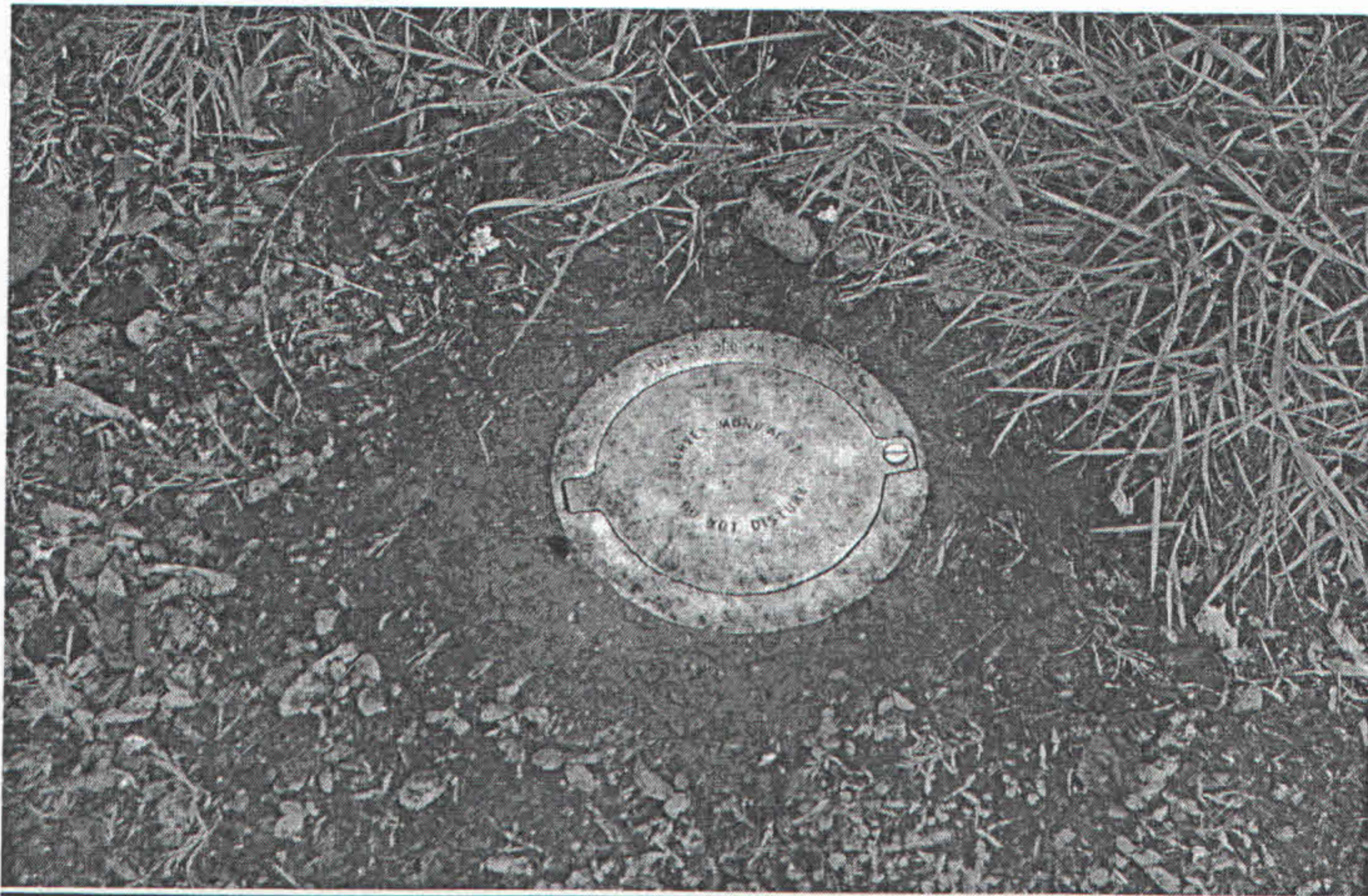


3A – GPS Survey Monument located at the southeast side of the intersection of Whitehall Road and Ware Road in the Town of Dedham, MA

The point is a stainless steel rod with rounded tip and punch point within a sleeve.
[State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



3A – GPS Survey Monument located off of the edge of the bituminous roadway of Whitehall Street.





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT 3B

1 inch equals 80 feet



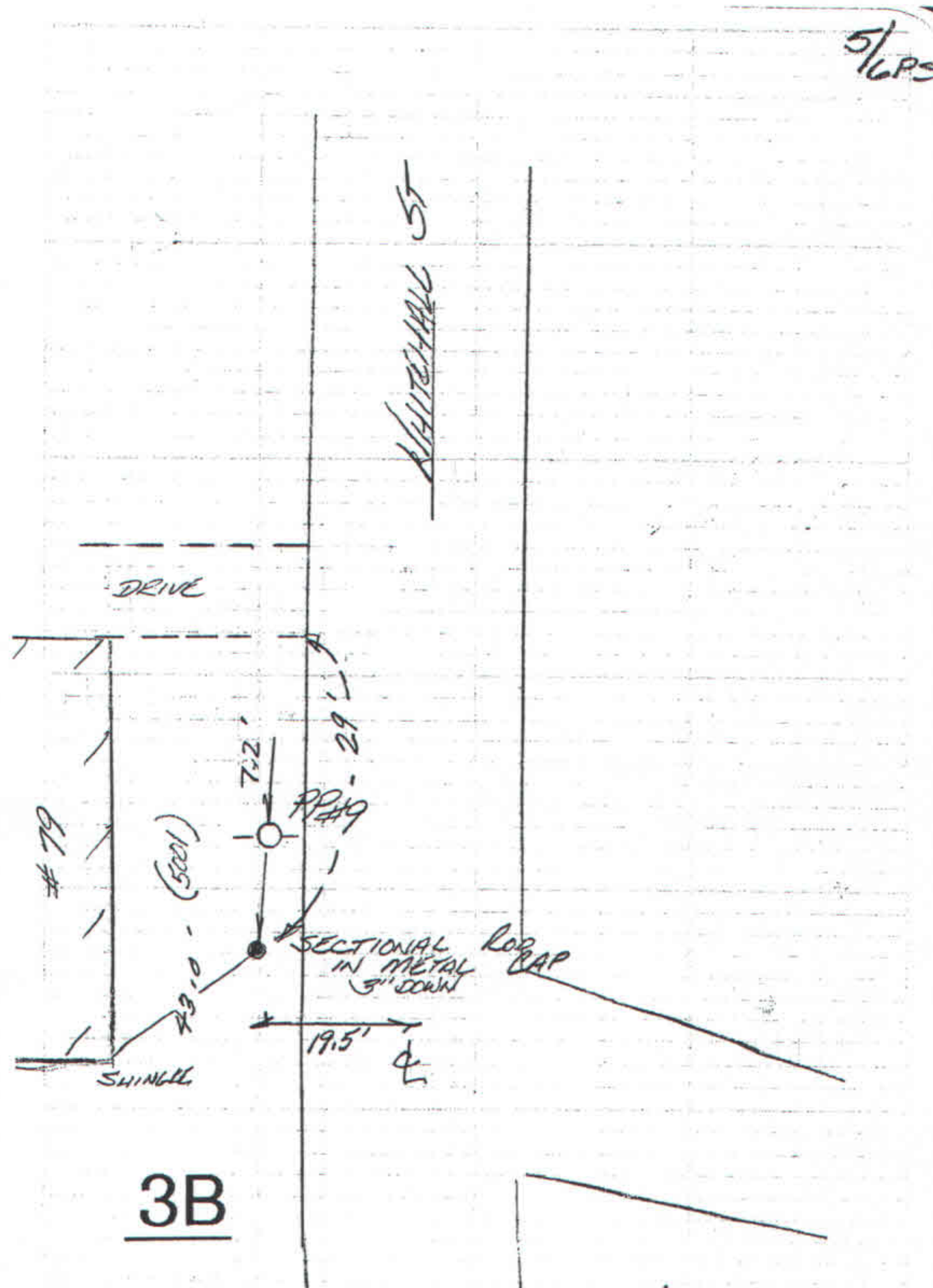
TOWN OF DEDHAM, MASSACHUSETTS

2008 TOWN OF DEDHAM, MA
GEODETIC HORIZONTAL & VERTICAL CONTROL
 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
 (NAVD88-ORTHOMETRIC ELEVATIONS)
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PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT
 649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 3B		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-15'-16.55326476" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-09'-05.03204684" W	U.S.FEET	2917995.437	750541.335	105.080
GEOID HEIGHT:	(-28.159399) (M)	METERS	889406.788	228765.457	32.028
CONVERGENCE ANGLE: 0°-14'-02.99796"		S.F.: 0.999964992		COMBINED S.F.: 0.999964385	

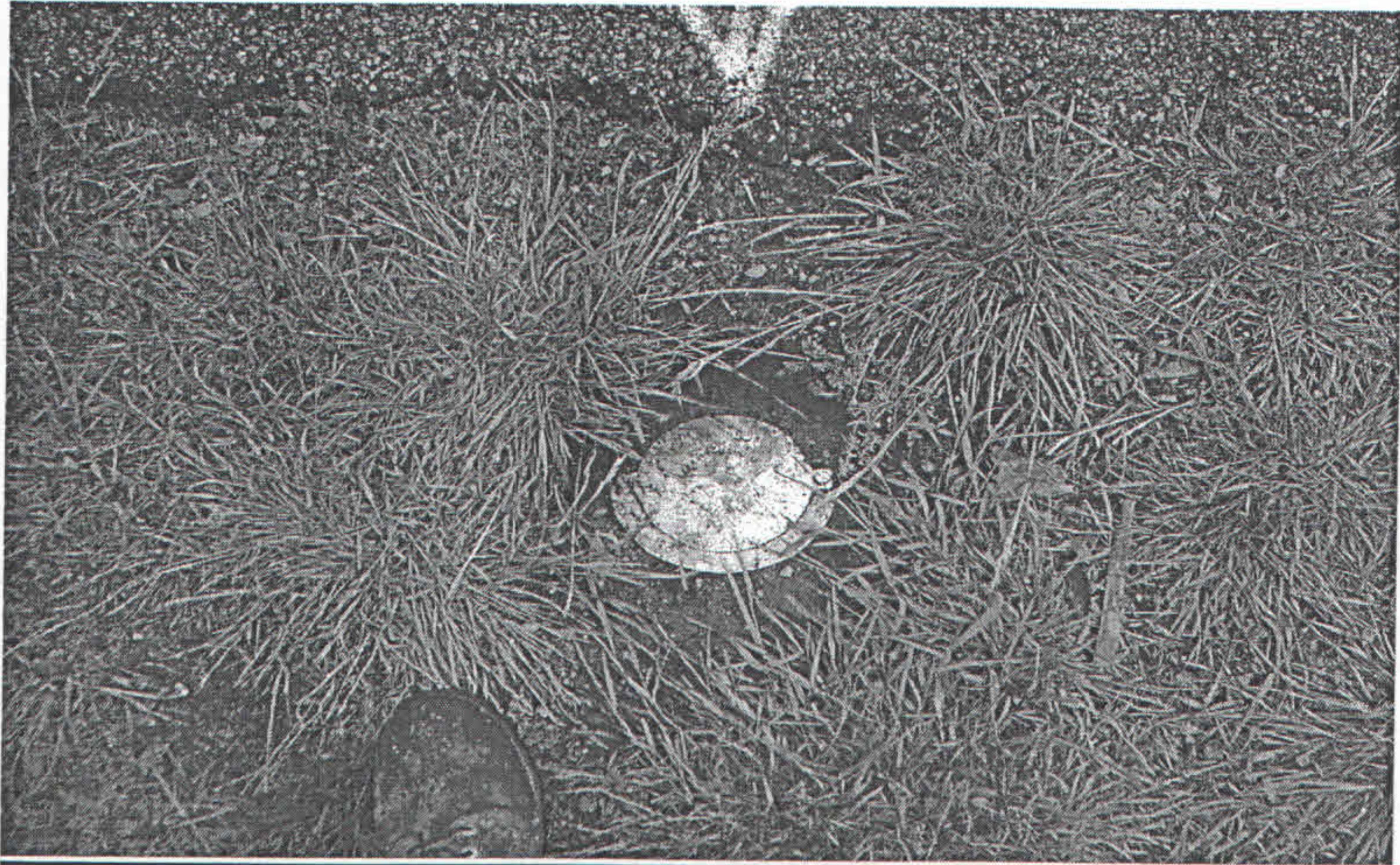


3B – **GPS Survey Monument** - located at the west side of Whitehall Road
in the Town of Dedham, MA

The point is a stainless steel rod with rounded tip and punch point within a sleeve.
[State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



3B – **GPS Survey Monument** located between the edge of the bituminous sidewalk
and the paved roadway in front of house #79 Whitehall Street.





Legend

Monument Type



Dedham

GEODETIC & BENCH MARK MAP POINT 3C

1 inch equals 80 feet



DEDHAM GIS

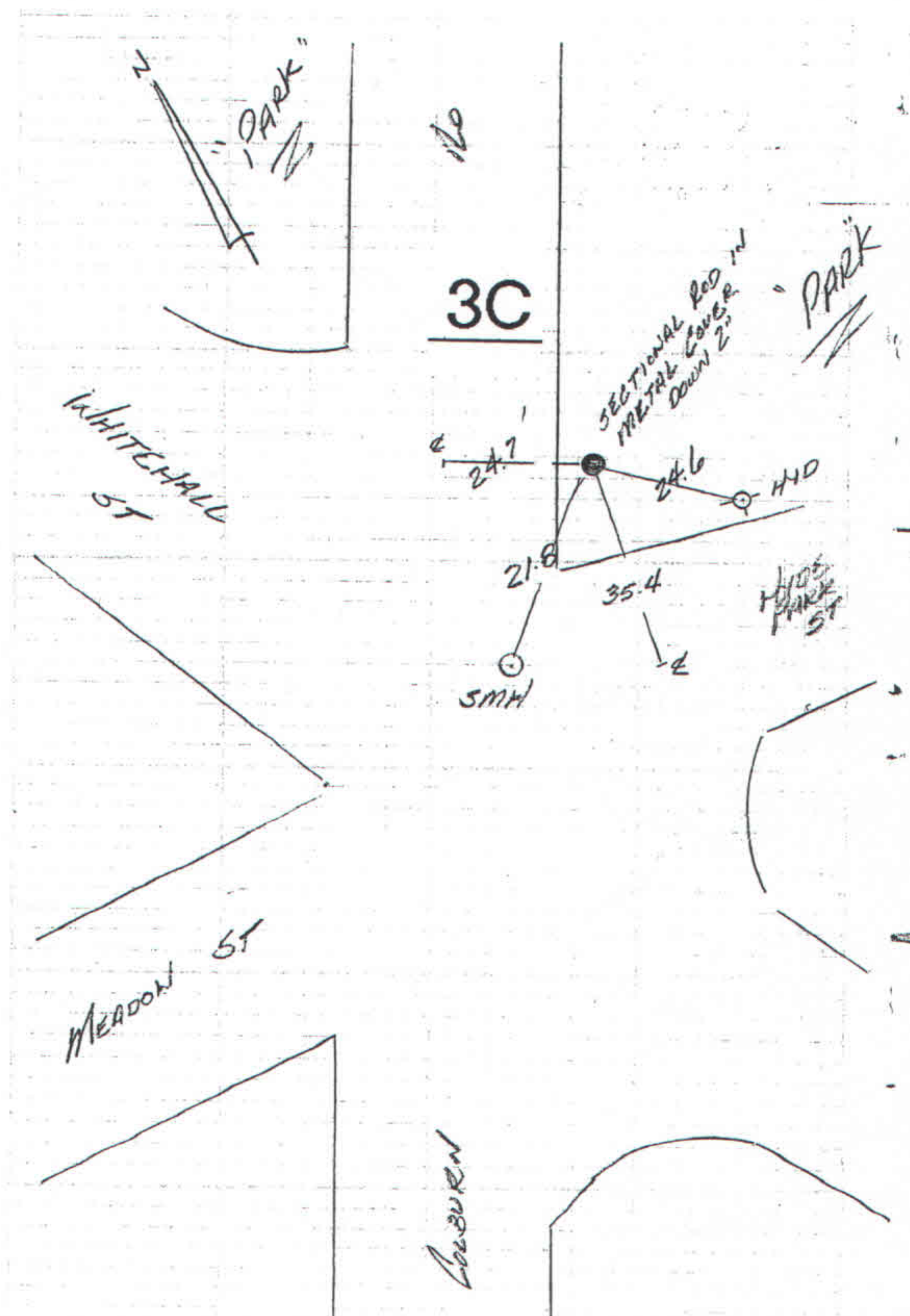
TOWN OF DEDHAM, MASSACHUSETTS

2008 TOWN OF DEDHAM, MA
GEODETIC HORIZONTAL & VERTICAL CONTROL
 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
 (NAVD88-ORTHOMETRIC ELEVATIONS)
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PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT
 649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 3C		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-15'-14.58326274" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-09'-03.63300835" W	U.S.FEET	2917796.452	750647.359	98.440
GEOID HEIGHT:	(-28.160553) (M)	METERS	889346.137	228797.773	30.004
CONVERGENCE ANGLE: 0°-14'-03.93773"		S.F.: 0.999964983		COMBINED S.F.: 0.999964694	

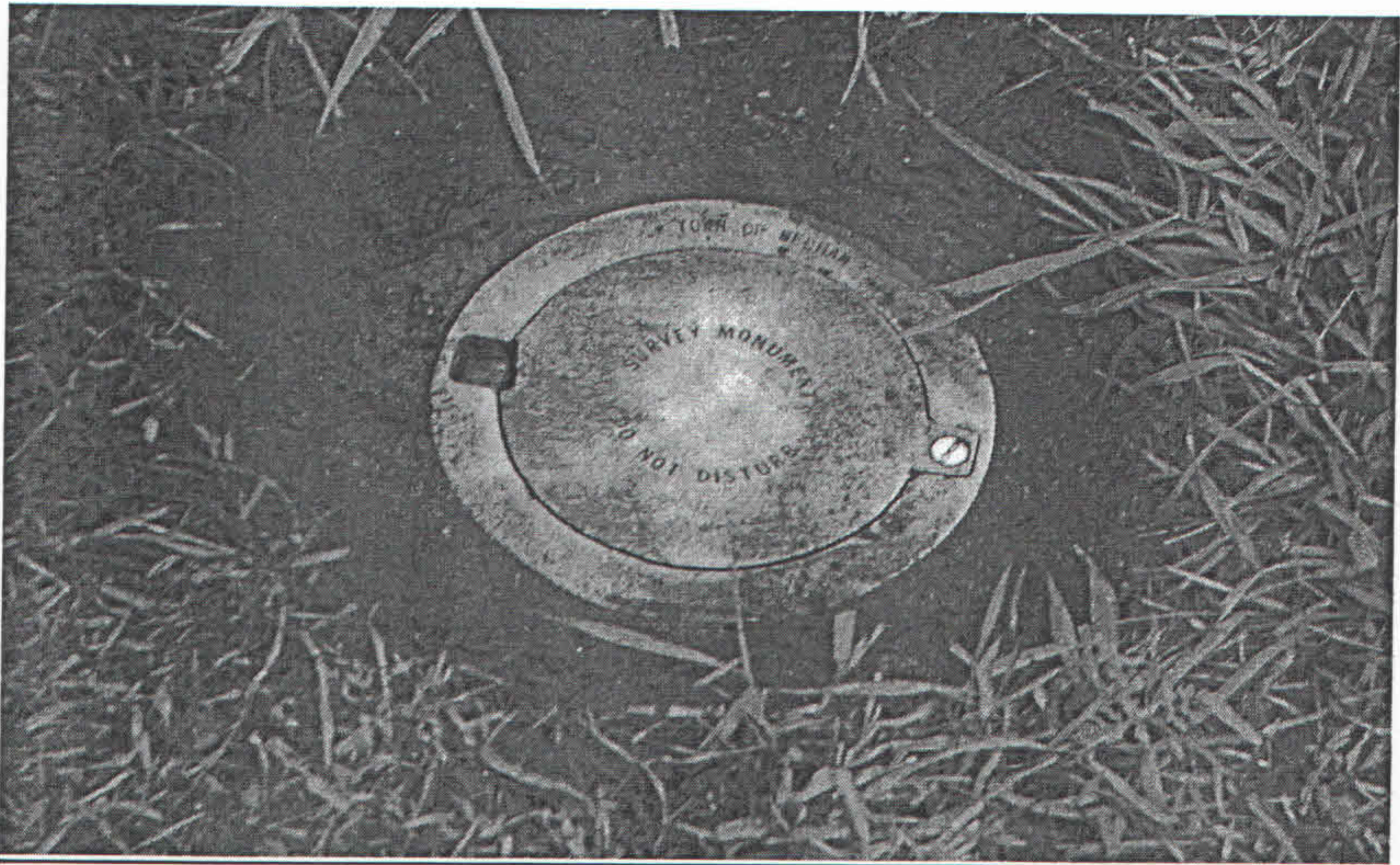


3C – GPS Survey Monument - located at the northeast side of the intersection Whitehall Road, Colburn Road and Hyde Park Street in the Town of Dedham, MA

The point is a stainless steel rod with rounded tip and punch point within a sleeve.
[State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



3C – GPS Survey Monument located behind the edge of the bituminous sidewalk.





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT 4A

1 inch equals 80 feet



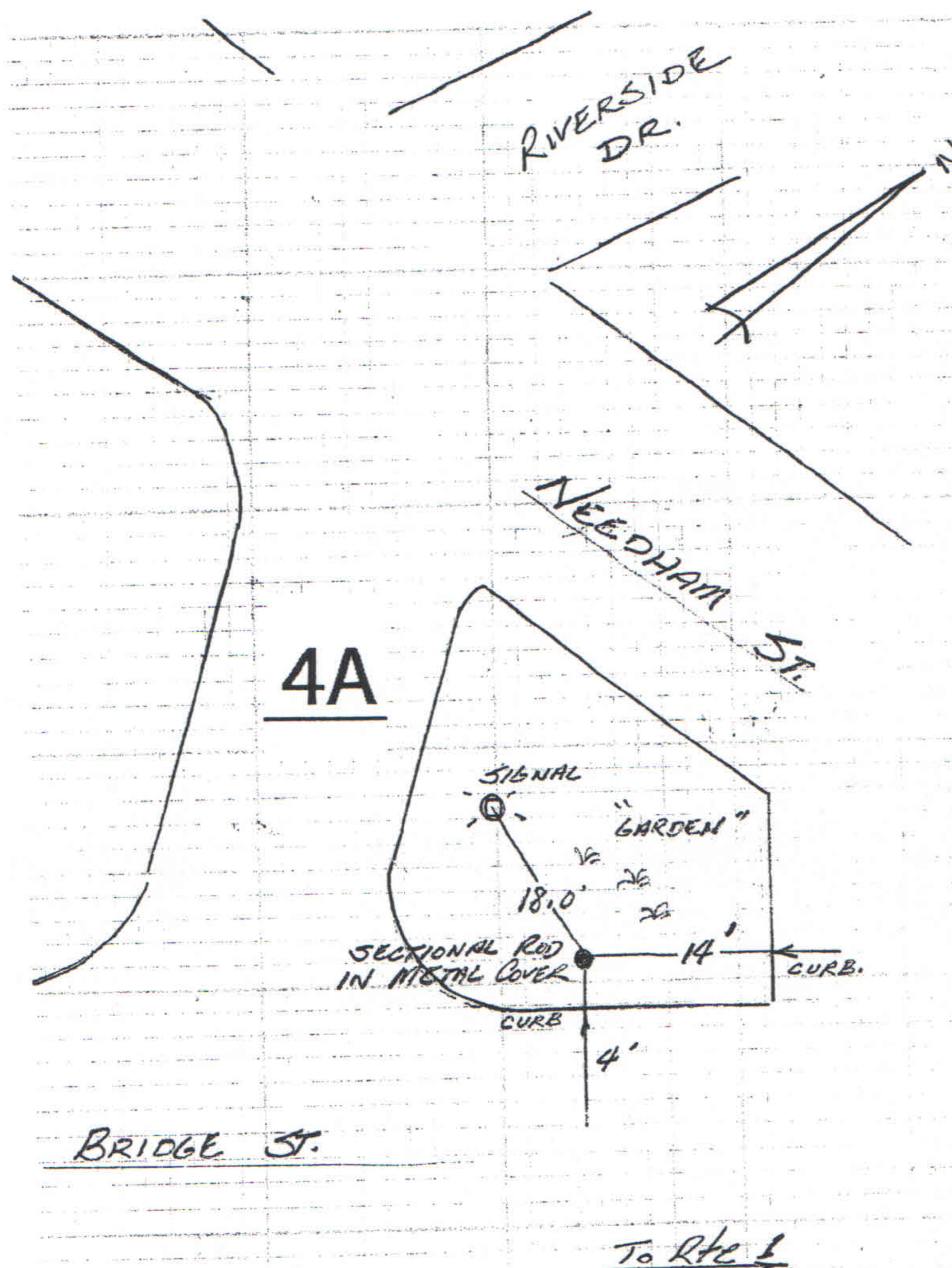
TOWN OF DEDHAM, MASSACHUSETTS

2008 TOWN OF DEDHAM, MA
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 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
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THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 4A		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-16'-12.88409742" N	NORTHING	EASTING	ORTHOMETRIC HEIGHT	
LONGITUDE	71°-10'-26.51677370" W	U.S.FEET	2923673.362	744391.853	95.200
GEOID HEIGHT:	(-28.138102) (M)	METERS	891137.423	226891.091	29.019
CONVERGENCE ANGLE: 0°-13'-08.26233"		S.F.: 0.999965286		COMBINED S.F.: 0.999965148	

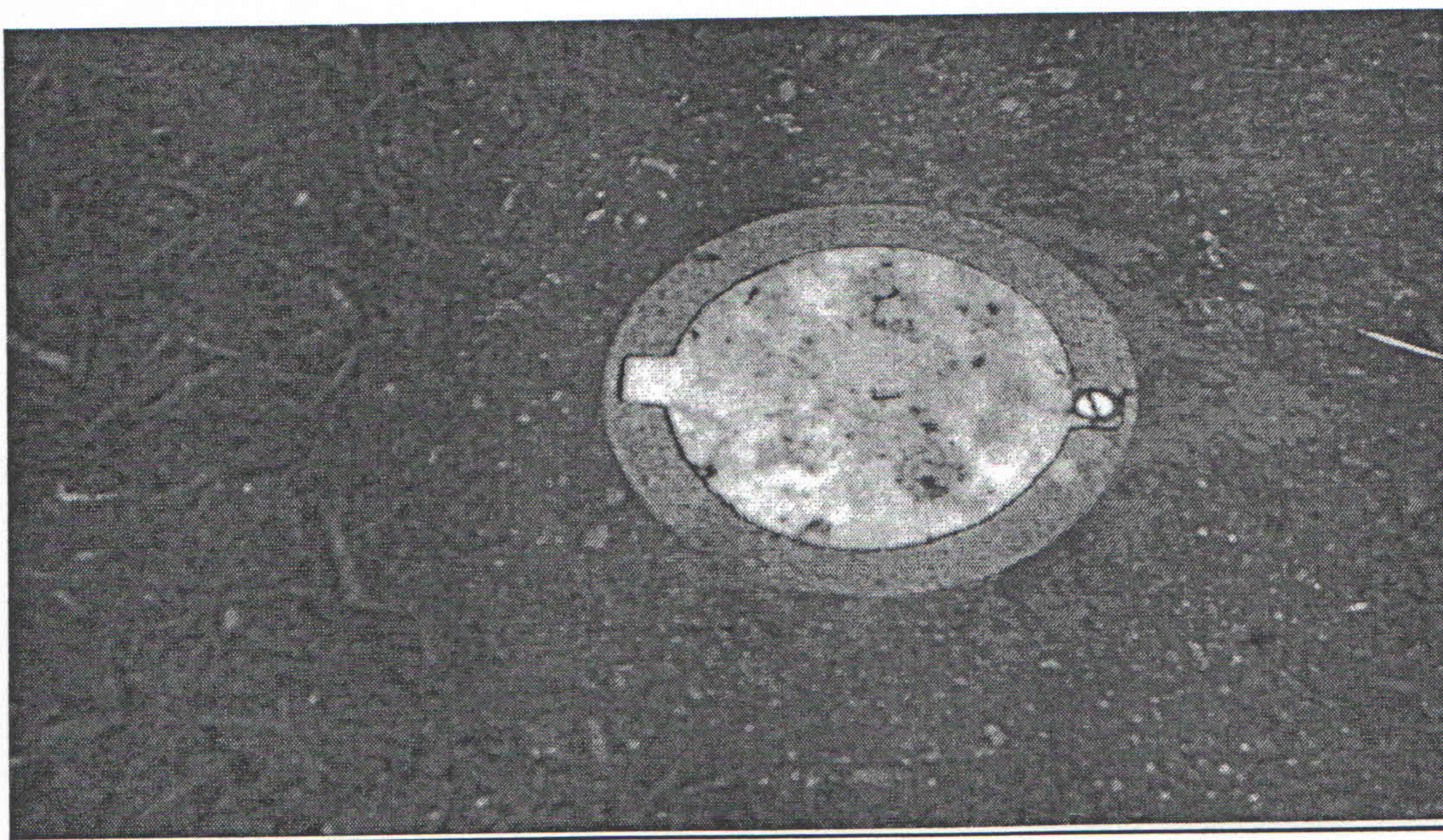


4A – GPS Survey Monument located at the northwest side of the intersection of Bridge Street and Needham Street in the Town of Dedham, MA.

The point is a steel rod set in concrete with a rounded tip and punch point within a sleeve.
[State Plane Coordinates-NAD83/2003, Elevations-NAVD 1988]



4A – GPS Survey Monument located in a traffic island at the intersection of Bridge Street and Needham Street.





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT 4B

1 inch equals 80 feet



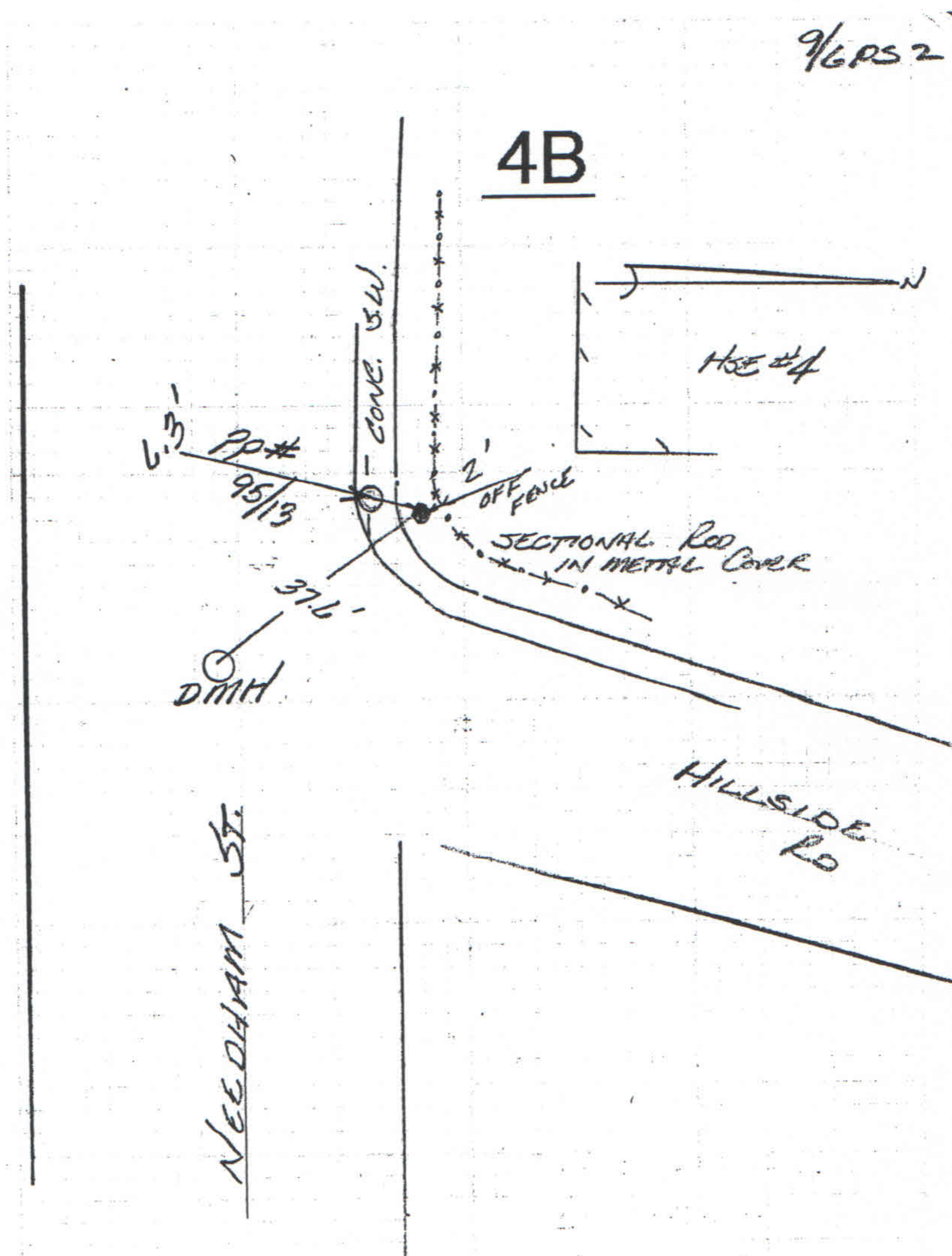
TOWN OF DEDHAM, MASSACHUSETTS

2008 TOWN OF DEDHAM, MA
GEODETIC HORIZONTAL & VERTICAL CONTROL
 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
 (NAVD88-ORTHOMETRIC ELEVATIONS)
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PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT
 649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 4B		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-16'-10.73844619" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-10'-42.69792185" W	U.S.FEET	2923451.548	743176.141	129.730
GEOID HEIGHT:	(-28.144428) (M)	METERS	889346.137	228797.773	30.004
CONVERGENCE ANGLE: 0°-12'-57.39299"		S.F.: 0.999965273		COMBINED S.F.: 0.999963485	



4B – GPS Survey Monument located at the northeast side of the intersection of Hillside Road and Needham Street in the Town of Dedham, MA.

The point is a stainless steel rod with rounded tip and punch point within a sleeve.
[State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



4B – GPS Survey Monument located between a chain link fence and the back of a concrete sidewalk.





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT 5A

1 inch equals 80 feet



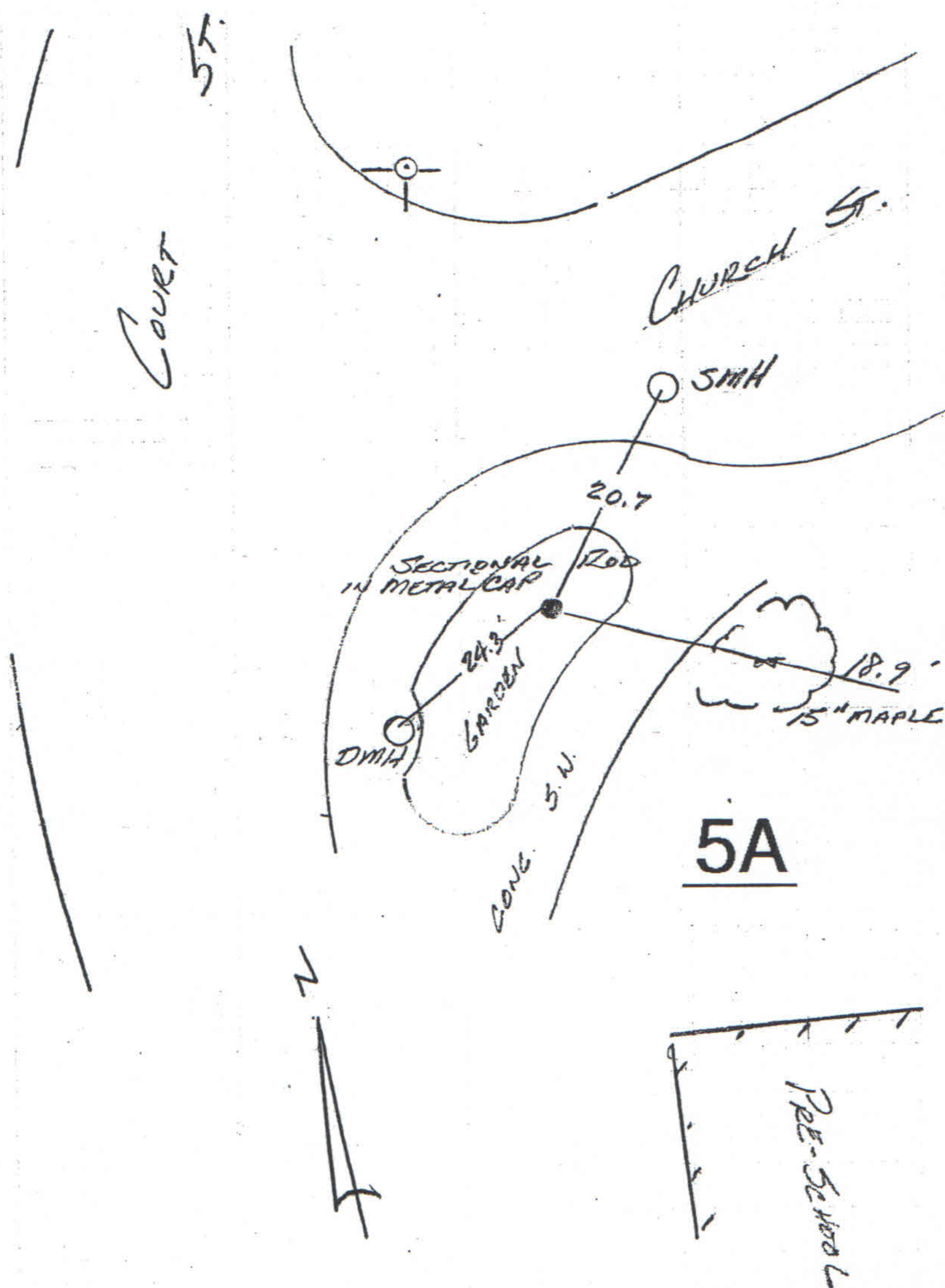
TOWN OF DEDHAM, MASSACHUSETTS

2008 TOWN OF DEDHAM, MA
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 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
 (NAVD88-ORTHOMETRIC ELEVATIONS)
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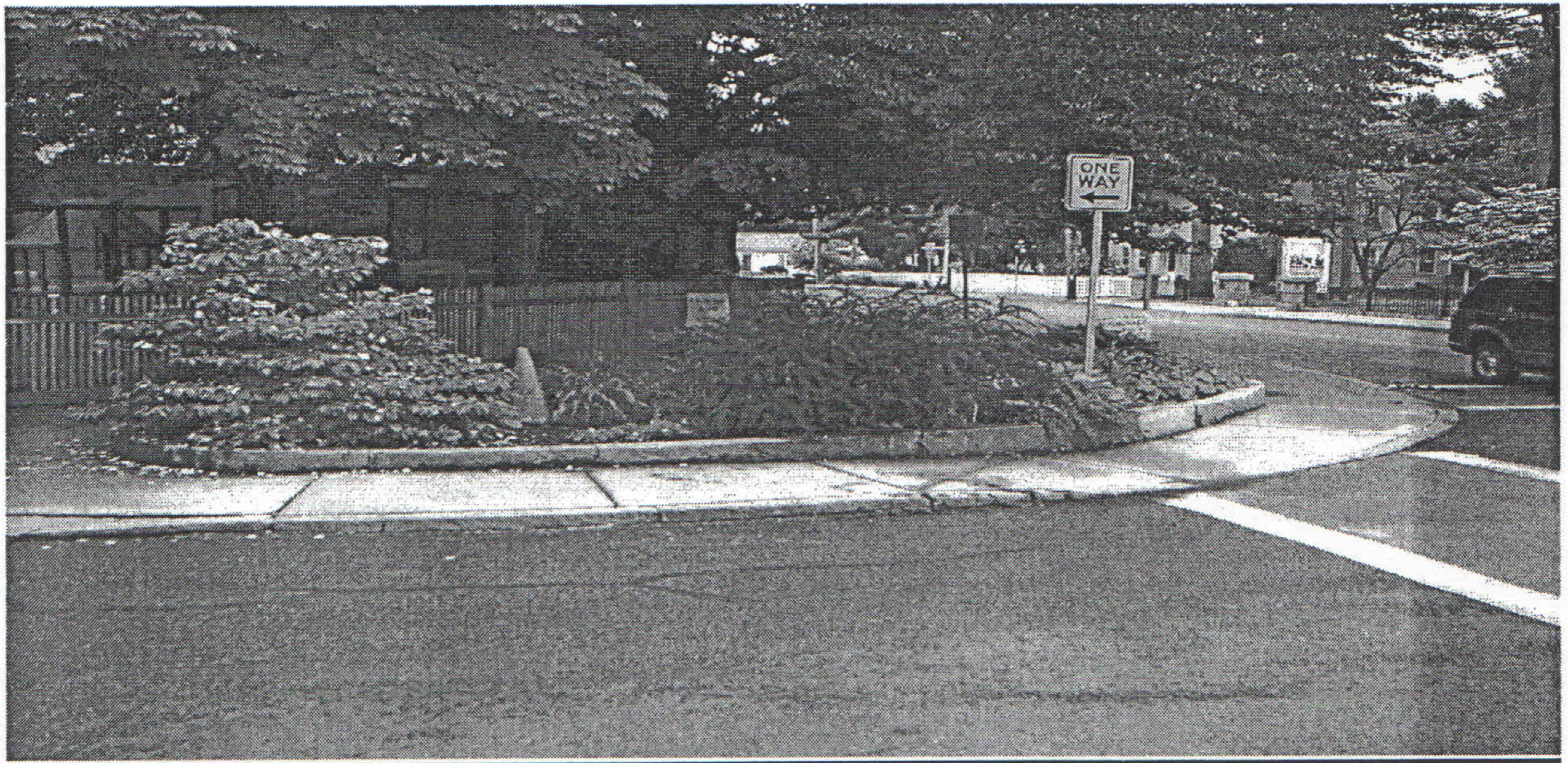
THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 5A		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-14'-49.66960686" N	NORTHING	EASTING	ORTHOMETRIC HEIGHT	
LONGITUDE	71°-10'-38.68239978" W	U.S.FEET	2915246.403	743509.075	112.560
GEOID HEIGHT:	(-28.204159) (M)	METERS	888568.881	226622.019	34.309
CONVERGENCE ANGLE: 0°-13'-00.09033"		S.F.: 0.999964878		COMBINED S.F.: 0.999963920	

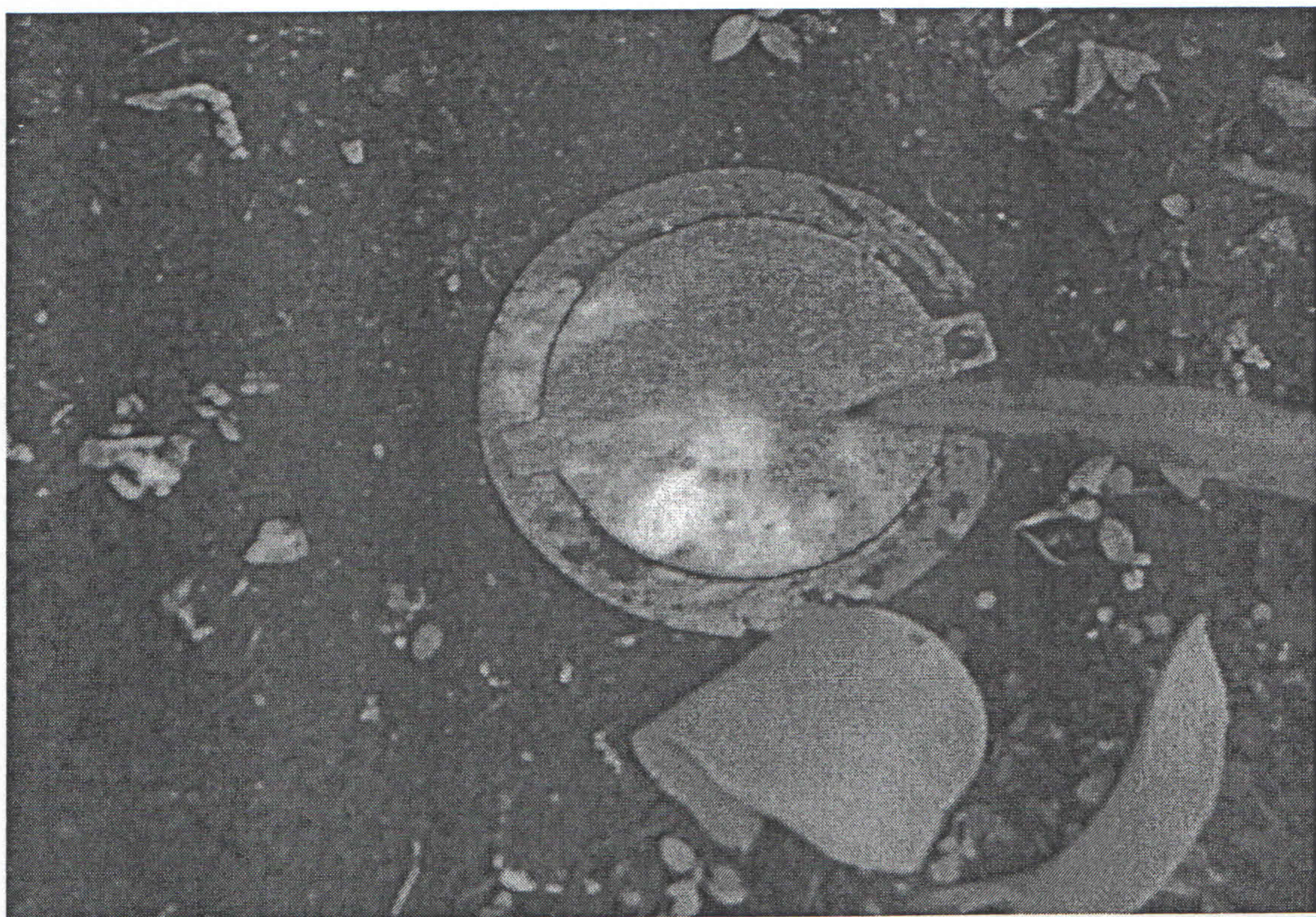


5A – GPS Survey Monument located at the southeast side of the intersection of Court Street and Church Street in the Town of Dedham, MA.

The point is a stainless steel rod with rounded tip and punch point within a sleeve.
[State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



5A – GPS Survey Monument located in a landscape island off of Church Street.





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT 5B

1 inch equals 80 feet



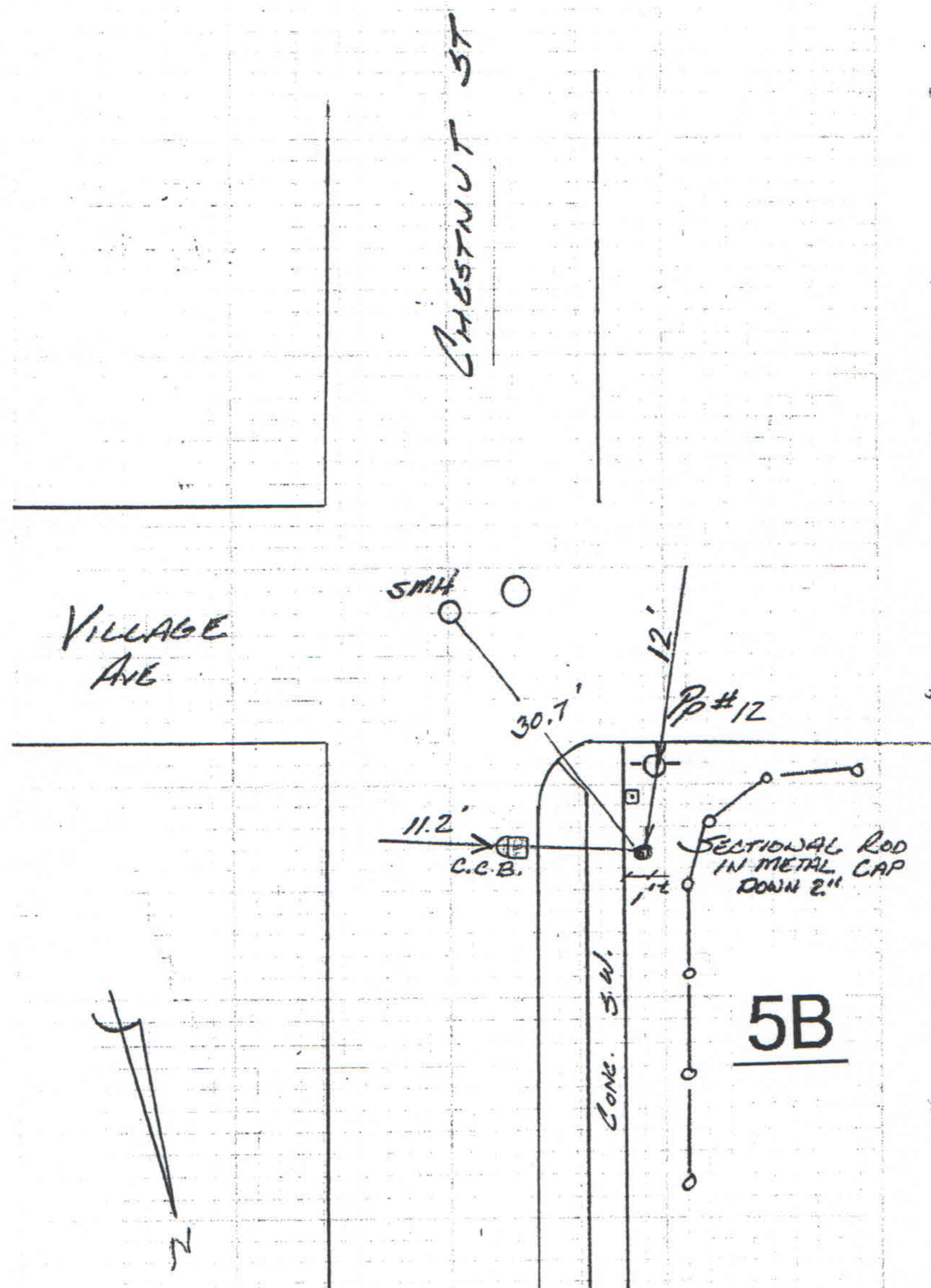
TOWN OF DEDHAM, MASSACHUSETTS

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 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
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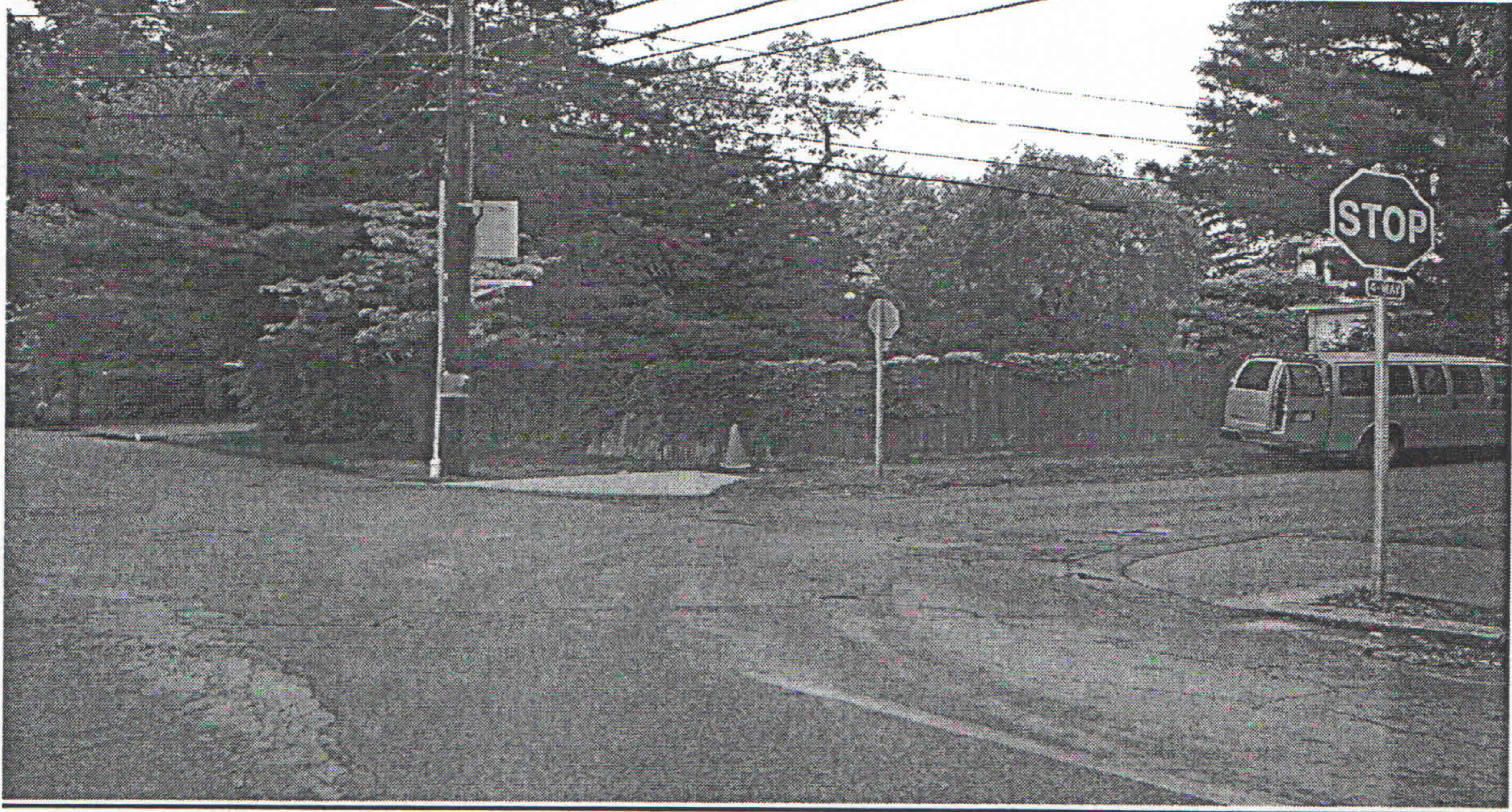
THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 5B		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-14'-54.21786964" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-10'-52.08185728" W	U.S.FEET	2915703.016	742499.589	115.140
GEOID HEIGHT:	(-28.203852) (M)	METERS	888708.056	226314.327	35.095
CONVERGENCE ANGLE: 0°-12'-51.08953"		S.F.: 0.999964896		COMBINED S.F.: 0.999963815	

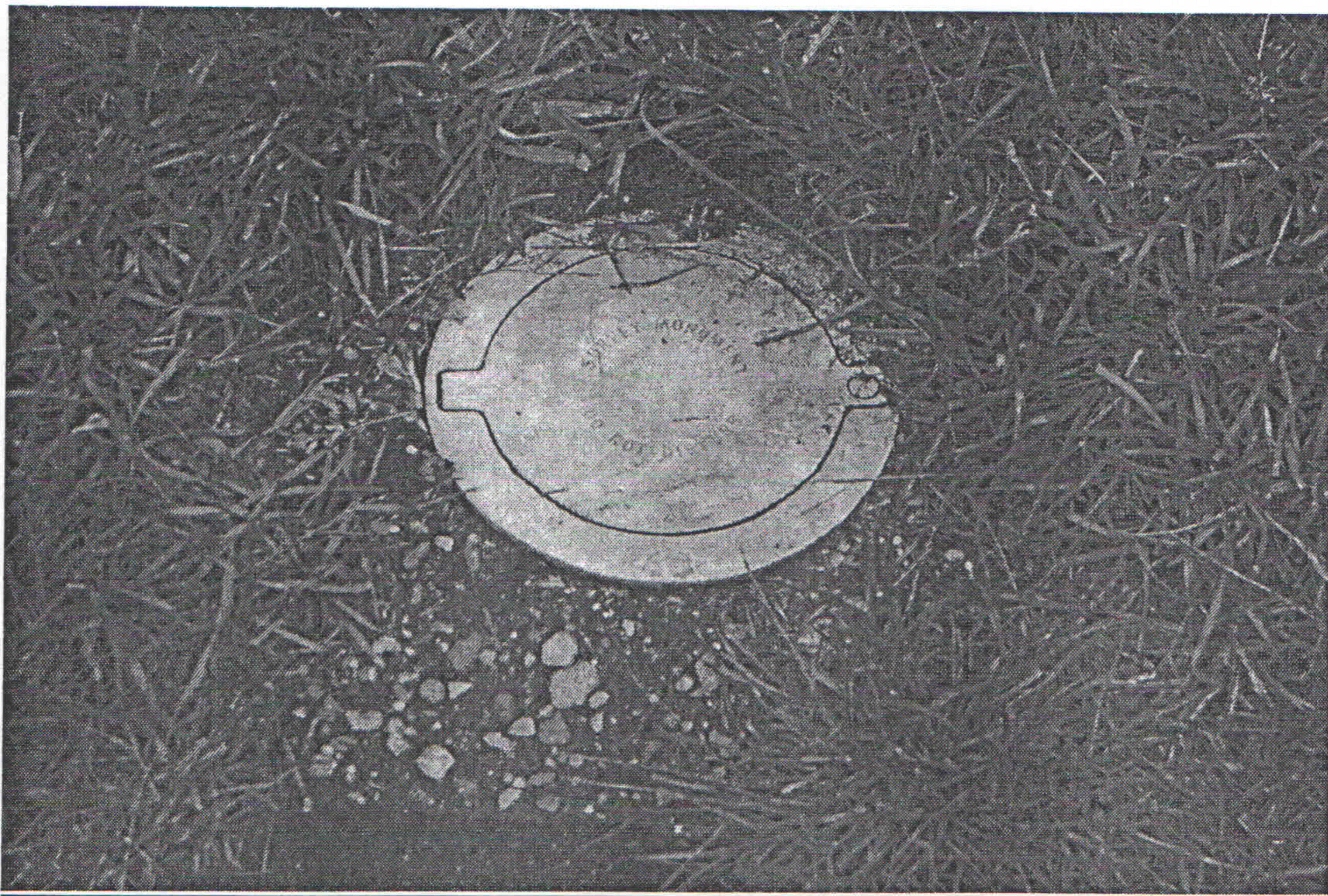


5B – GPS Survey Monument located at the northwest side of the intersection of Village Street and Chestnut Street in the Town of Dedham, MA.

The point is a stainless steel rod with rounded tip and punch point within a sleeve.
[State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



5B– GPS Survey Monument located in the grass behind concrete sidewalk.





Legend

Monument Type

 Dedham

**GEODETIC & BENCH MARK MAP
POINT 6A**

1 inch equals 80 feet



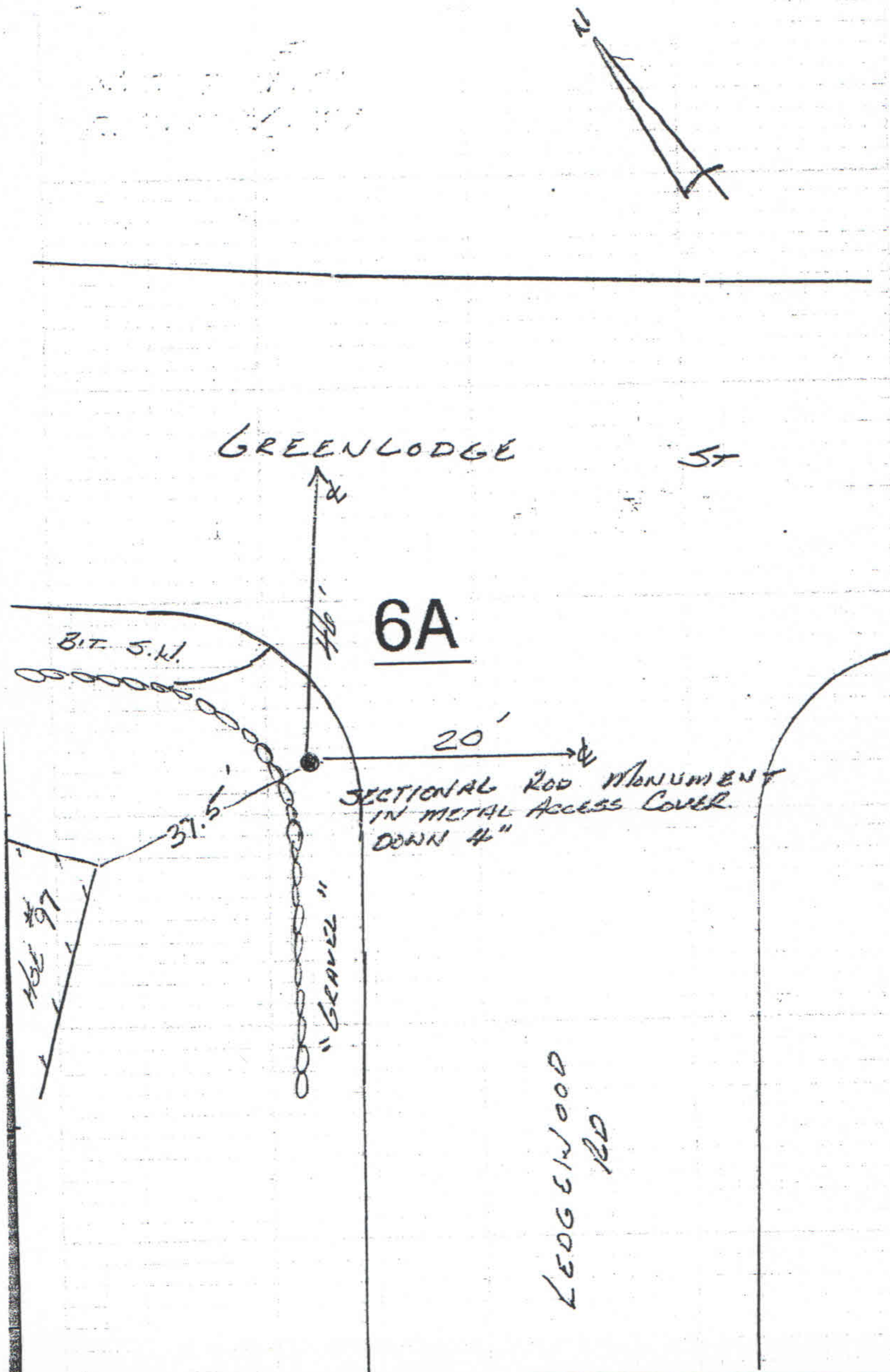
TOWN OF DEDHAM, MASSACHUSETTS

2008 TOWN OF DEDHAM, MA
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 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
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THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 6A		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-13'-37.66333523" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-09'-25.45430837" W	U.S.FEET	2907979.009	749045.818	124.880
GEOID HEIGHT:	(-28.238152) (M)	METERS	886353.775	228309.622	38.064
CONVERGENCE ANGLE: 0°-13'-49.27974"		S.F.: 0.999964657		COMBINED S.F.: 0.999963115	



6A – GPS Survey Monument located at the northwest corner of the intersection of Ledgewood Rd. and Greenlodge St. in the Town of Dedham, MA

The point is a stainless steel rod with rounded tip and punch within a sleeve.
[State Plane Coordinates-NAD83/2003, Elevations-NAVD 1988]



6A – GPS Survey Monument between a stonewall and the bituminous roadway





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT 6B

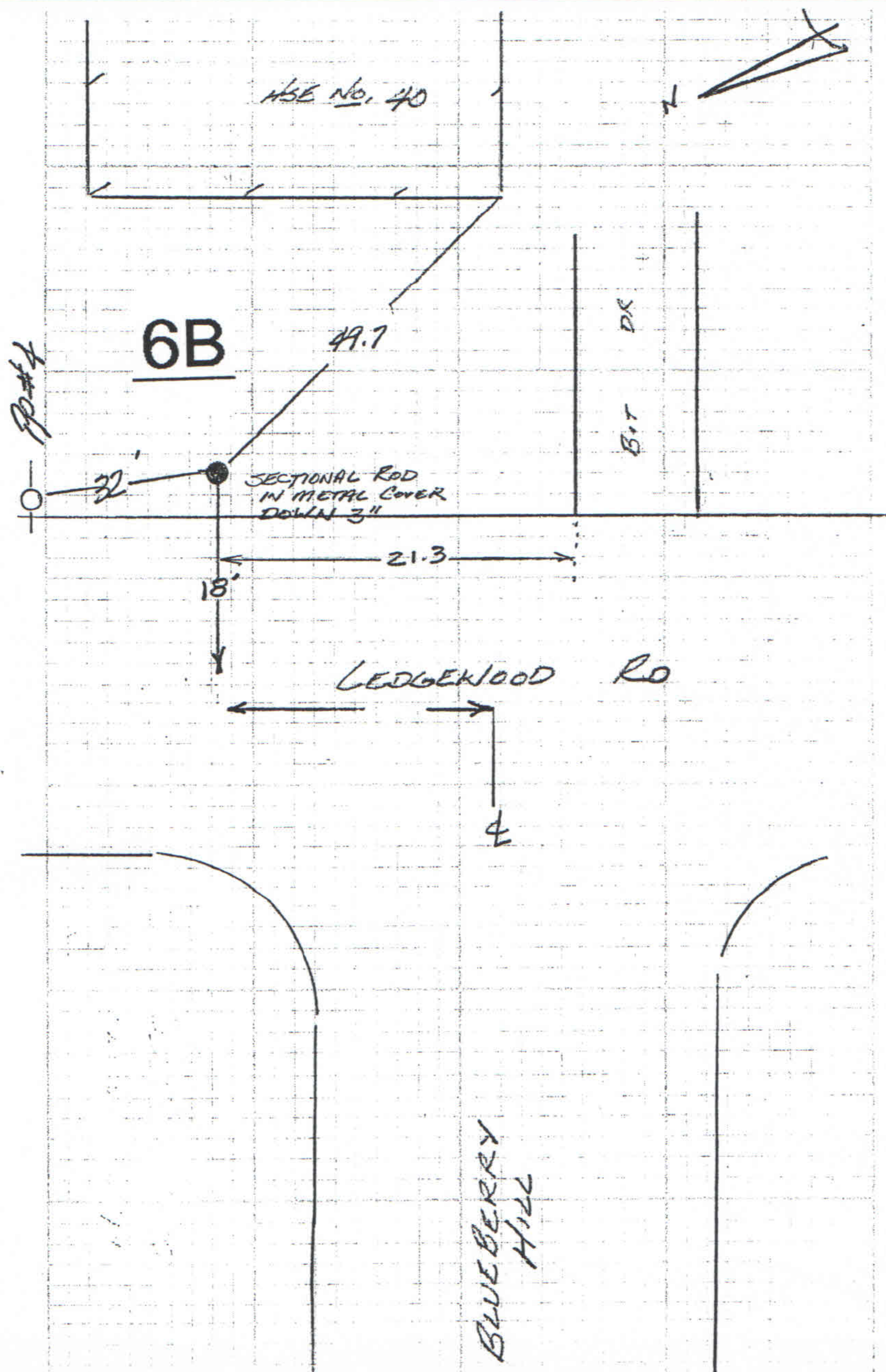
1 inch equals 80 feet



TOWN OF DEDHAM, MASSACHUSETTS

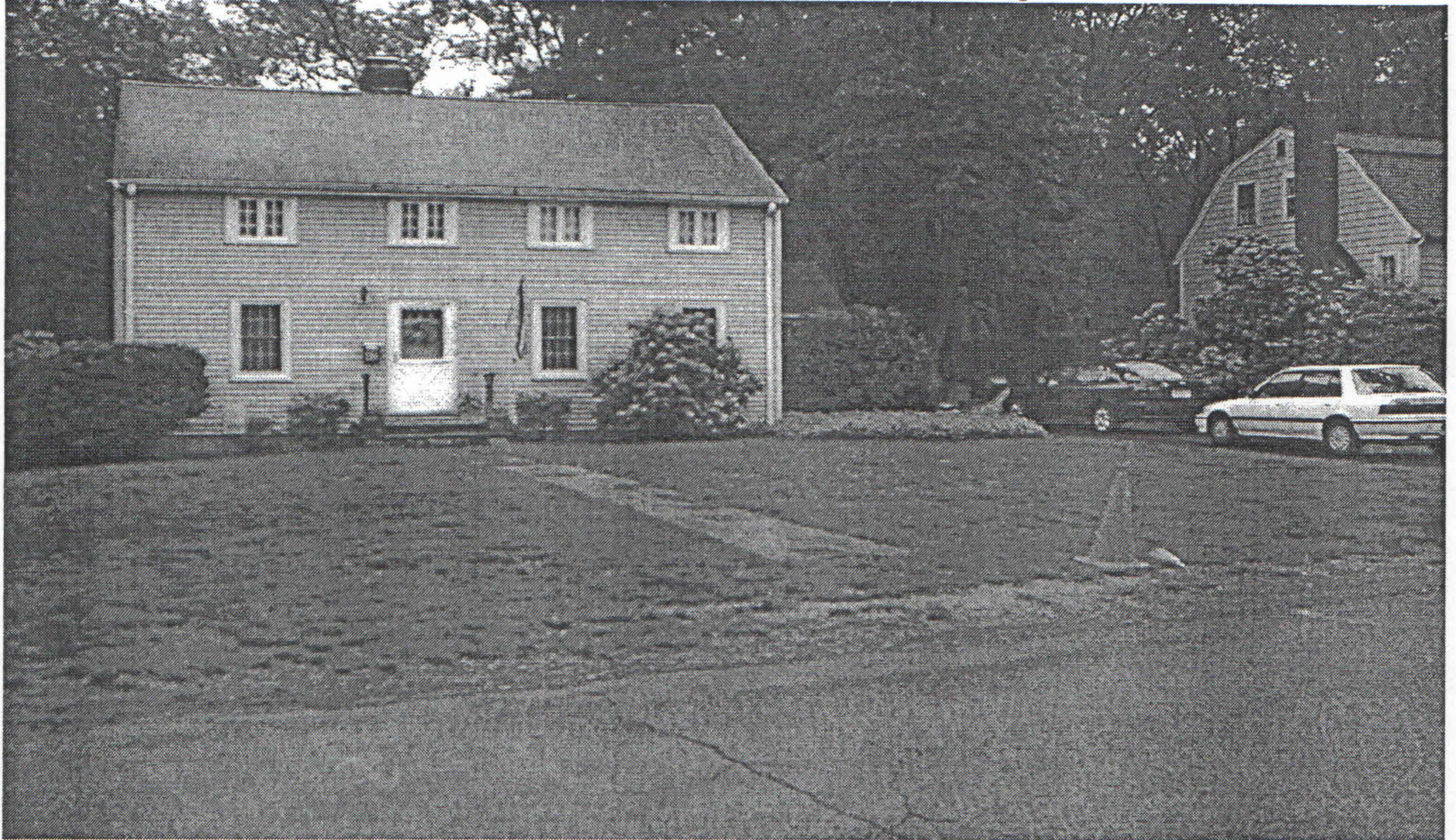
PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT
649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

STATION: 6B		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-13'-33.93125004" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-09'-28.44546100" W	U.S.FEET	2907600.324	748822.299	120.680
GEOID HEIGHT:	(-28.241575) (M)	METERS	886238.351	228241.493	36.783
CONVERGENCE ANGLE: 0°-13'-47.27050"		S.F.: 0.999964649		COMBINED S.F.: 0.999963308	

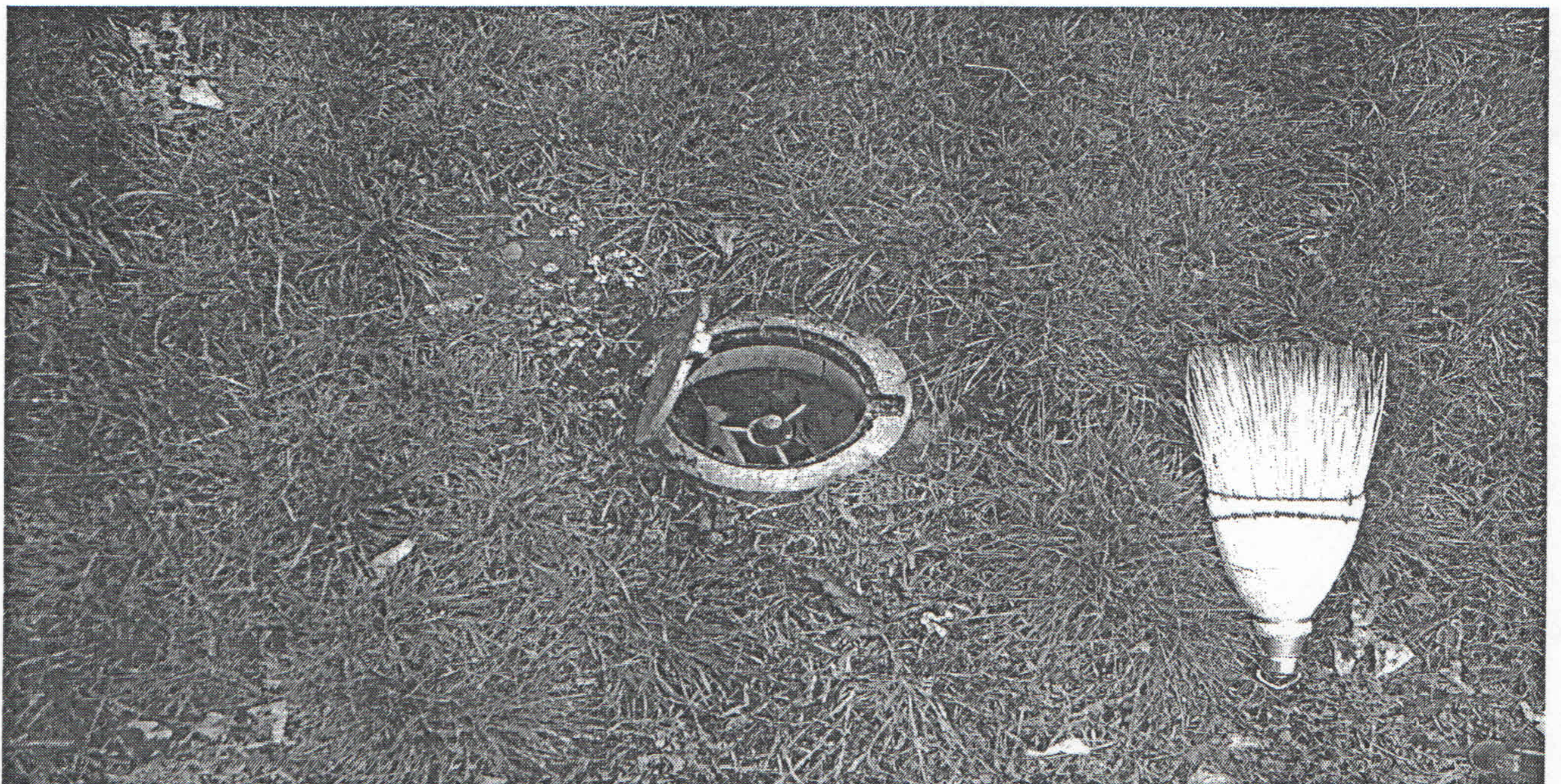


6B – **GPS Survey Monument** located at the northeaest side of the intersection of
Ledgewood Rd. and Blueberry Hill in the Town of Dedham, MA

The point is a stainless steel rod with rounded tip and punch within a sleeve.
[State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



6B – **GPS Survey Monument** located in the front lawn of #40 Ledgewood Road





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT 6C

1 inch equals 80 feet



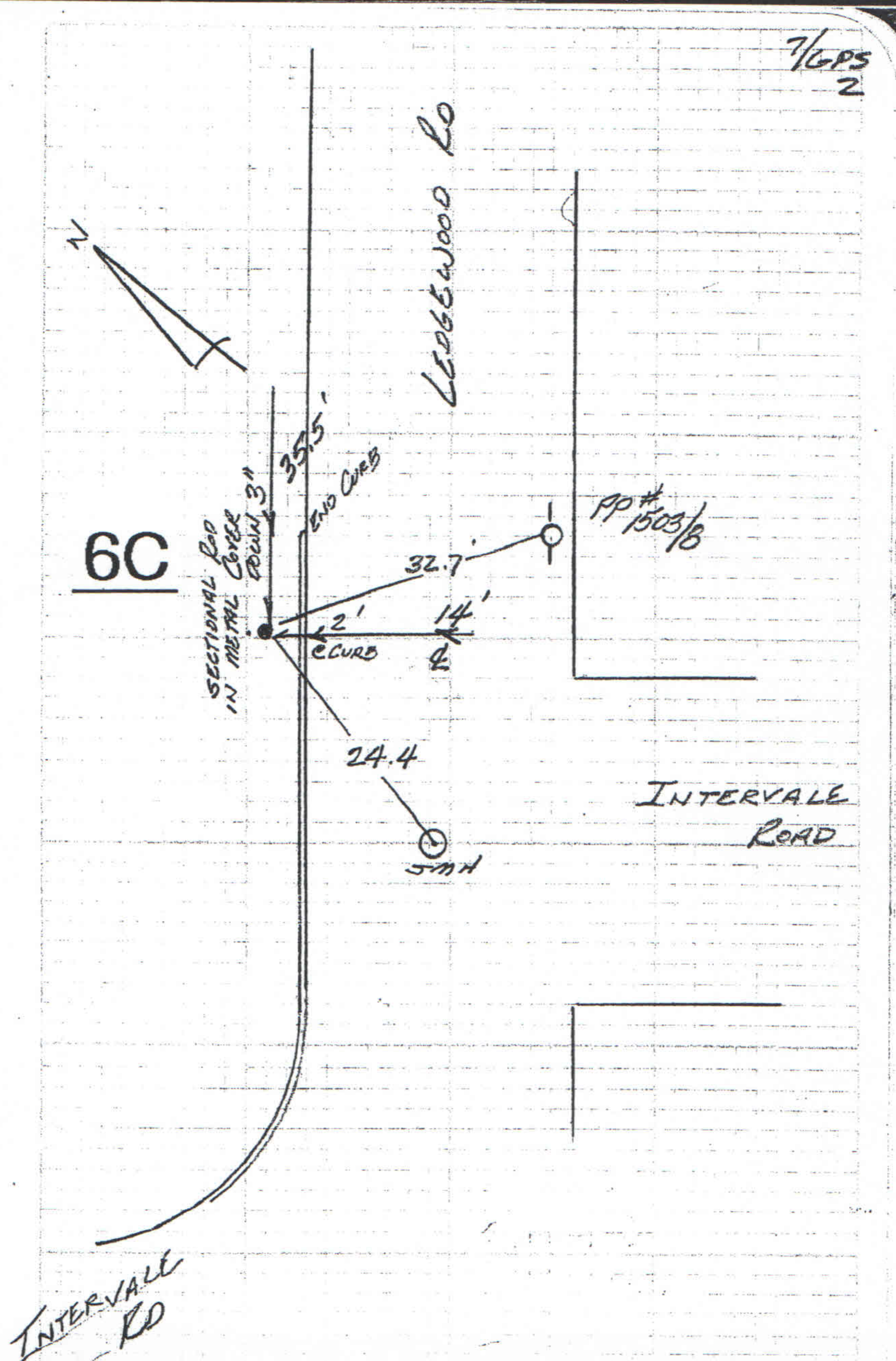
TOWN OF DEDHAM, MASSACHUSETTS

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PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT
 649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 6C		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-13'-29.54691192" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-09'-33.41236920" W	U.S.FEET	2907155.022	748450.390	140.120
GEOID HEIGHT:	(-28.245354) (M)	METERS	886102.623	228128.135	42.707
CONVERGENCE ANGLE: 0°-13'-43.93408"		S.F.: 0.999964639		COMBINED S.F.: 0.999962370	

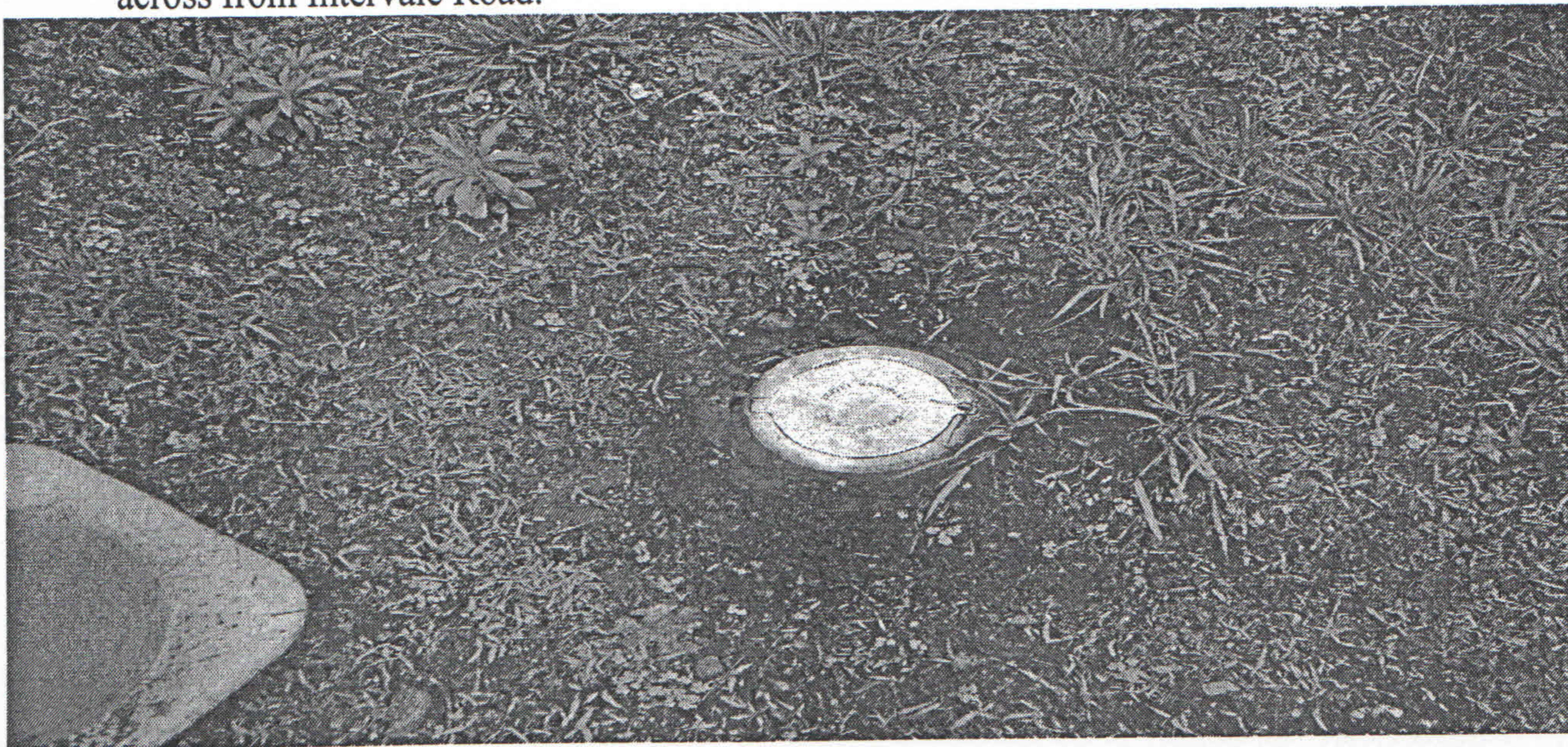


6C – GPS Survey Monument located at the northeast side of the intersection of Ledgewood Rd. and Blueberry Hill in the Town of Dedham, MA

The point is a stainless steel rod with rounded tip and punch within a sleeve. [State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



6C – GPS Survey Monument located in the front lawn on Ledgewood Road and across from Intervale Road.





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT 61D

1 inch equals 80 feet



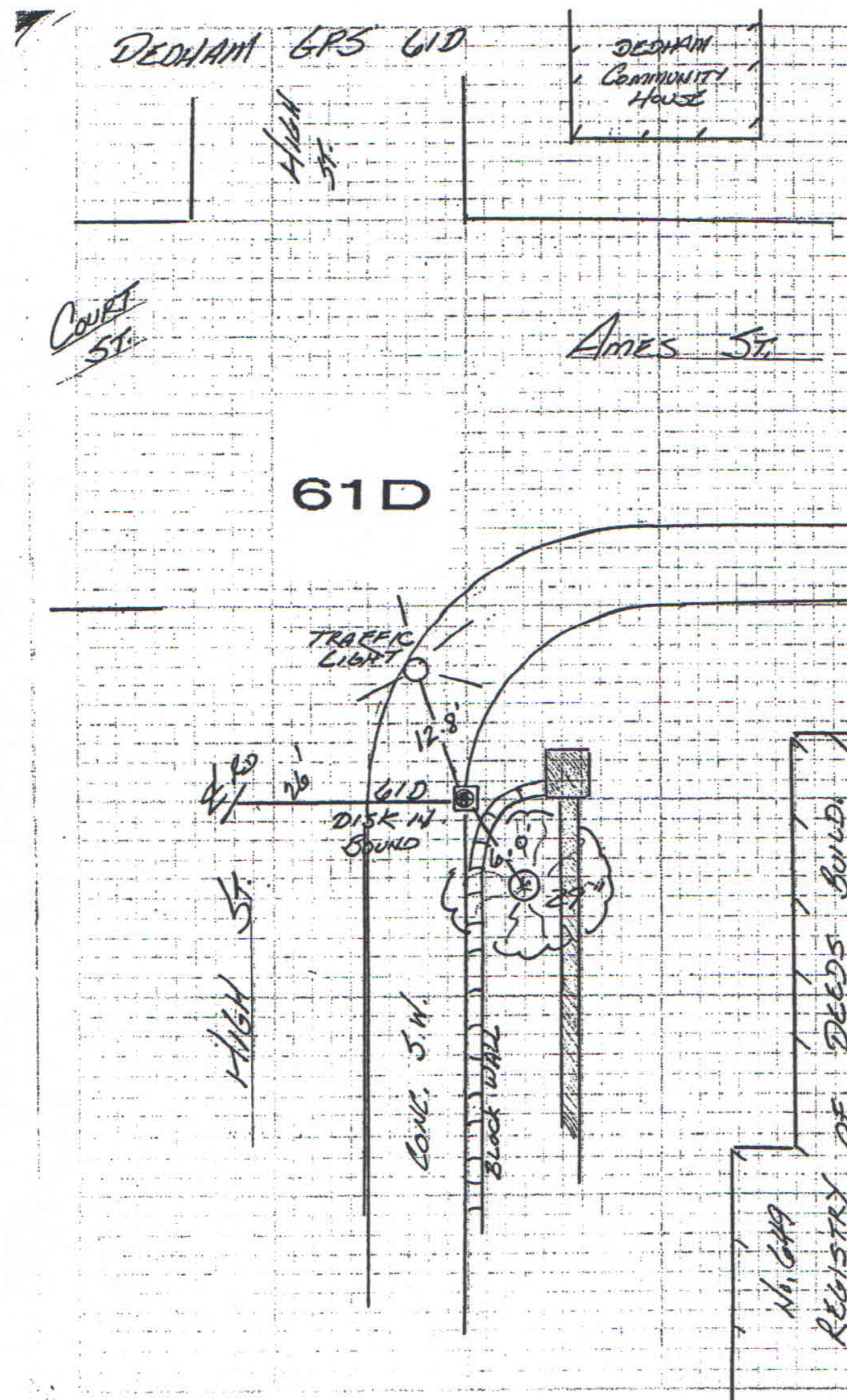
TOWN OF DEDHAM, MASSACHUSETTS

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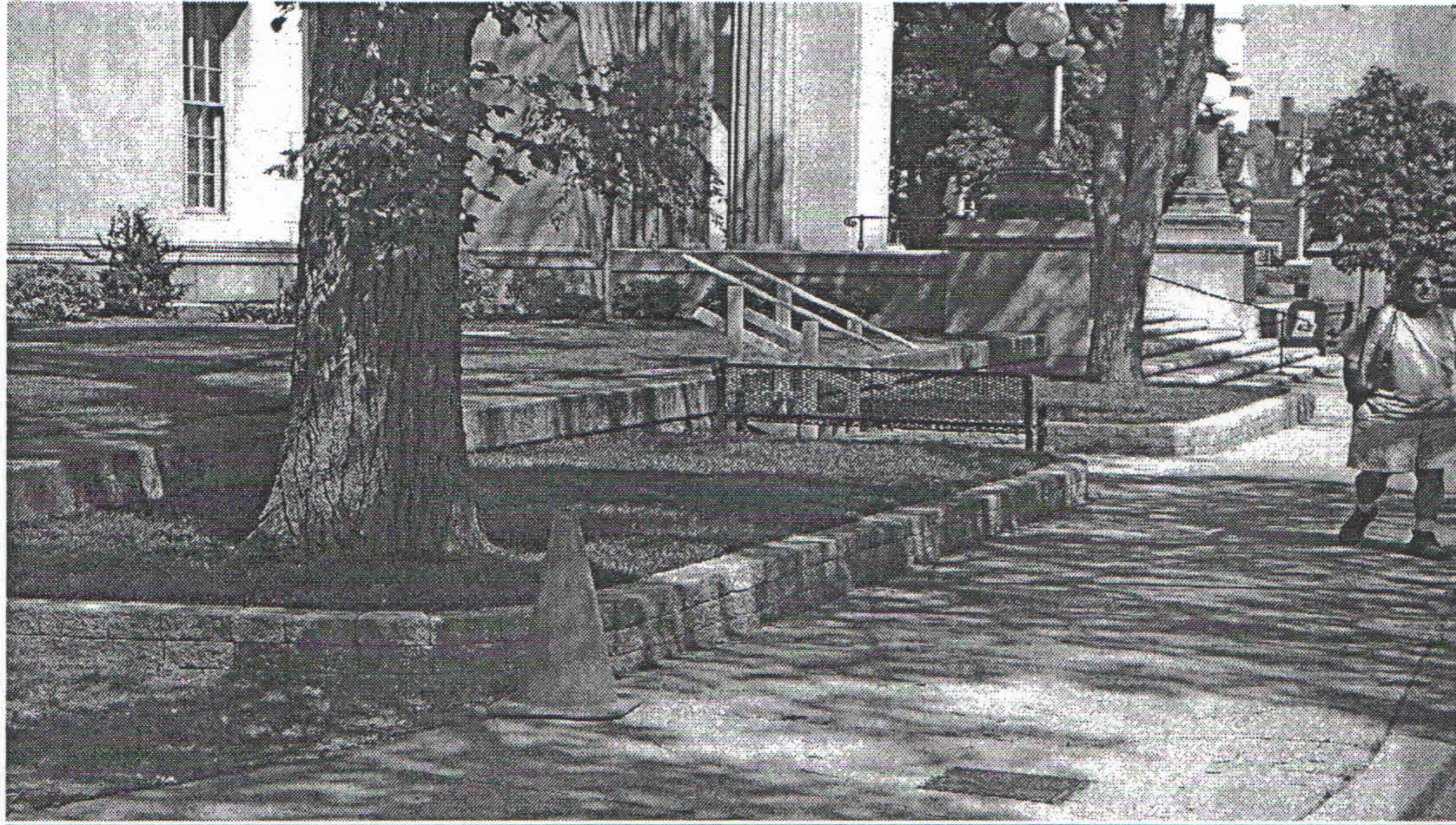
THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 61D USGS DISK		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-14'-56.62368090" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-10'-34.61359094" W	U.S.FEET	2915951.495	743812.416	111.485
GEOID HEIGHT:	(-28.198046) (M)	METERS	888783.793	226714.478	33.981
CONVERGENCE ANGLE: 0°-13'-02.82347"		S.F.: 0.999964906		COMBINED S.F.: 0.999963999	

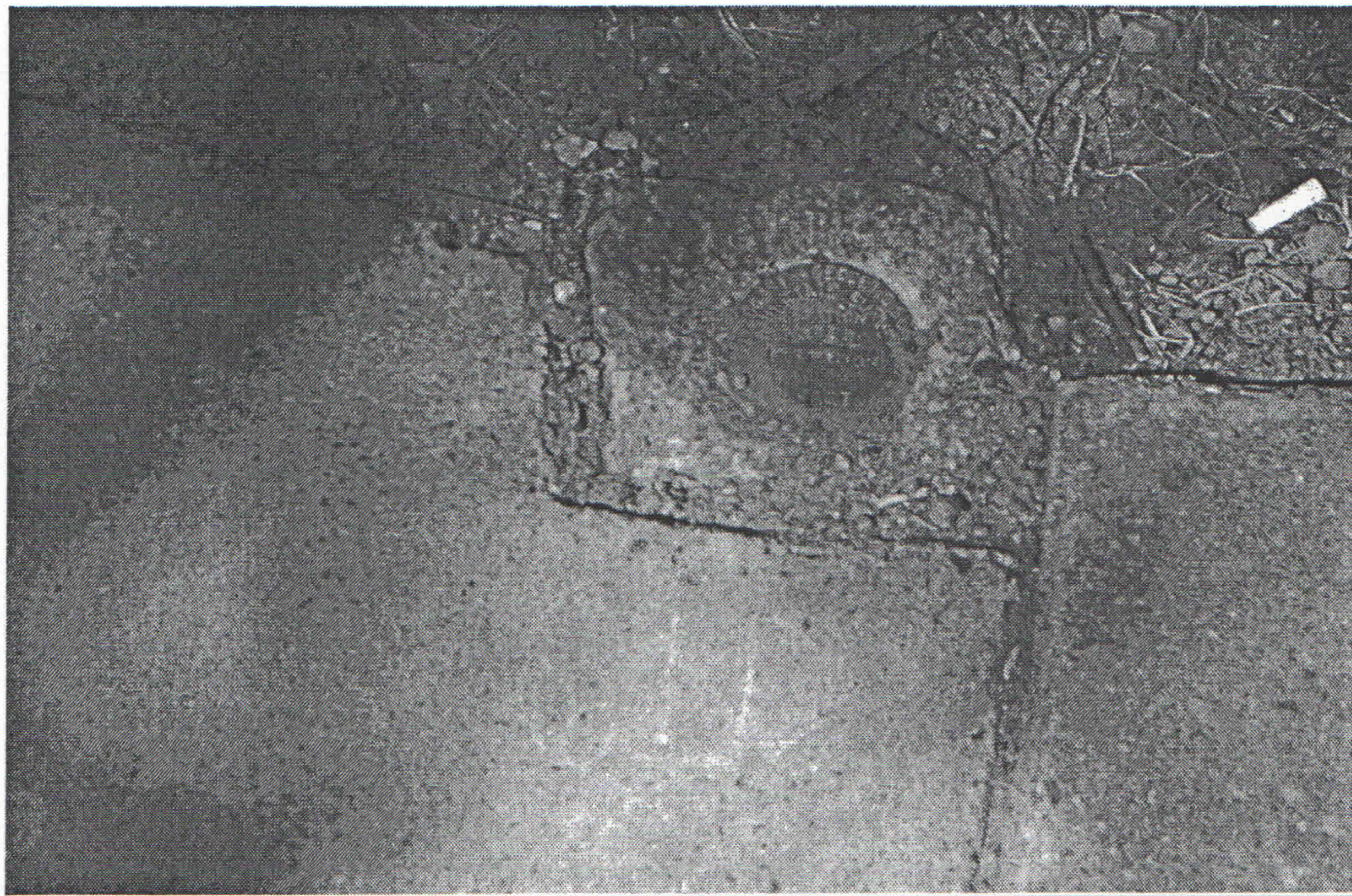


61D – GPS Survey Monument located in front of the Norfolk County Registry of Deed, which is at the northeast side of the intersection of High Street and Ames Street in the Town of Dedham, MA

The point is a U.S.G.S. brass disc stamped “61D” set in a granite stone bound.
[State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



61E – GPS Survey Monument located at the back of sidewalk in front of #649 High Street.





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT 61E

1 inch equals 80 feet



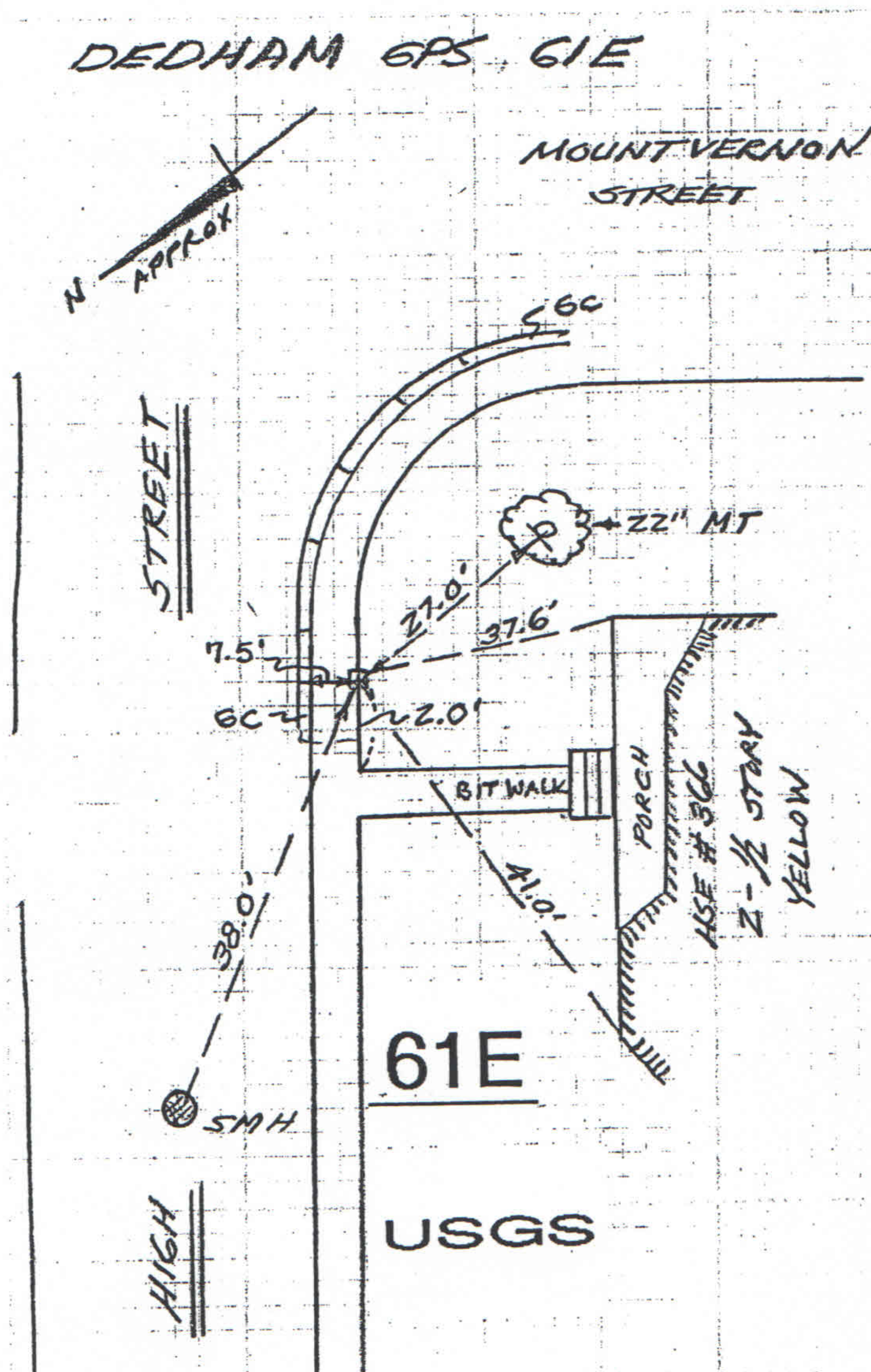
TOWN OF DEDHAM, MASSACHUSETTS

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 GEODETIC HORIZONTAL & VERTICAL CONTROL
 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
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 649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 61E USGS DISK		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-14'-53.46593063" N	NORTHING	EASTING	ORTHOMETRIC HEIGHT	
LONGITUDE	71°-09'-49.27348149" W	U.S.FEET	2915645.042	747223.574	122.130
GEOID HEIGHT:	(-28.189199) (M)	METERS	888690.386	227754.201	37.225
CONVERGENCE ANGLE: 0°-13'-33.27972"		S.F.: 0.999964893		COMBINED S.F.: 0.999963475	

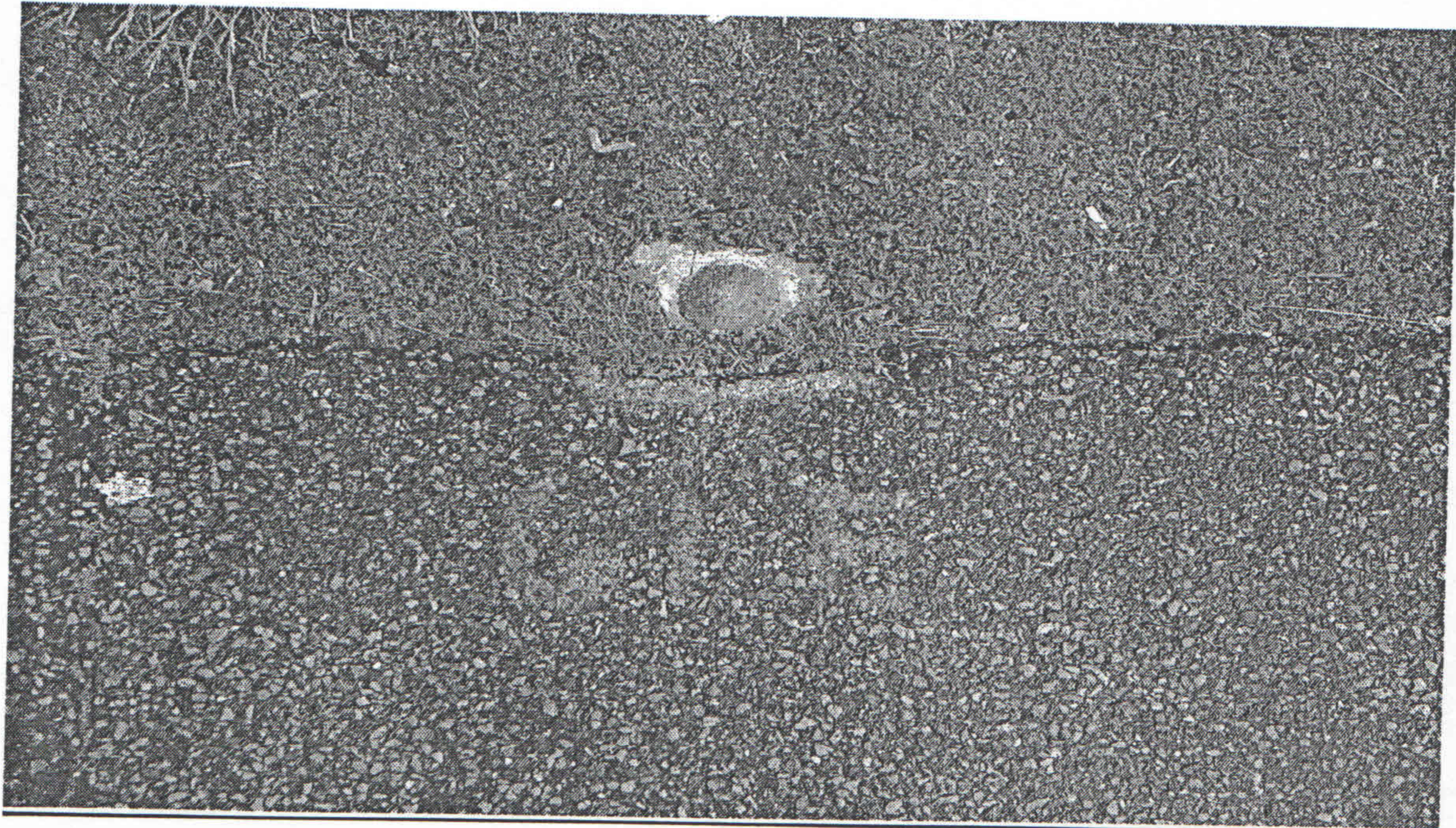


61E – GPS Survey Monument located at the southwest side of the intersection of High Street and Mount Vernon Street in the Town of Dedham, MA

The point is a U.S.G.S. brass disc stamped “61E” set in a granite stone bound.
[State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



61E – GPS Survey Monument located at the back of sidewalk in front of #366 High Street.





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT DH10

1 inch equals 80 feet



DEDHAM GIS

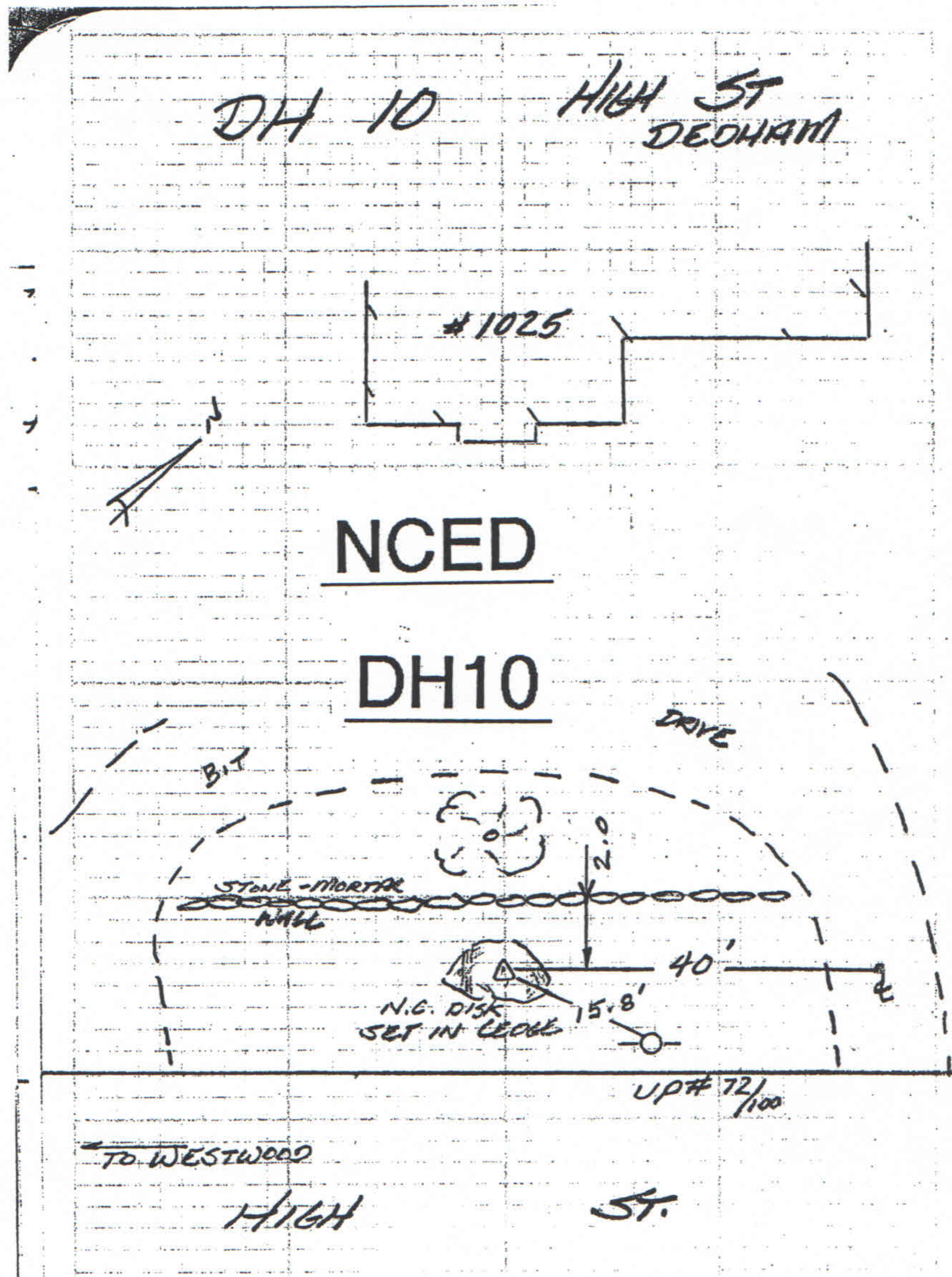
TOWN OF DEDHAM, MASSACHUSETTS

2008 TOWN OF DEDHAM, MA
 GEODETIC HORIZONTAL & VERTICAL CONTROL
 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
 (NAVD88-ORTHOMETRIC ELEVATIONS)
 VALUES IN U.S. SURVEY FEET & METERS

PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT
 649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: DH10 NCED DISK		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-14'-54.02841153" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-11'-28.14448222" W	U.S.FEET	2915673.858	739787.463	126.120
GEOID HEIGHT:	(-28.211763) (M)	METERS	888699.169	225487.670	38.442
CONVERGENCE ANGLE: 0°-12'-26.86523"		S.F.: 0.999964896		COMBINED S.F.: 0.999963290	

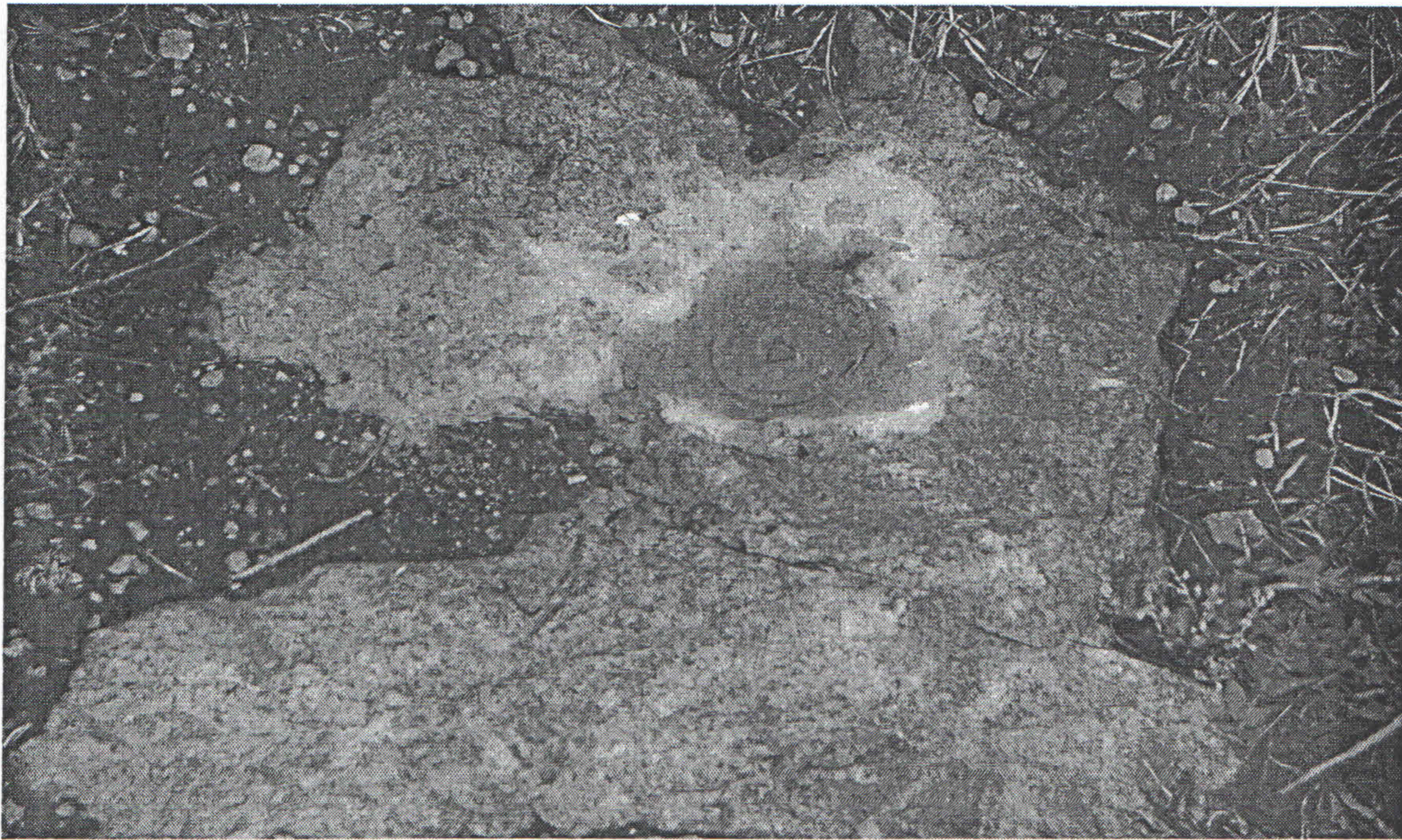


DH 10 – GPS Survey Monument located on the west side of High Street, in front of house #1025 High St. and in the Town of Dedham, MA

The point is a NCED brass disc set in a ledge outcrop in front of a stonewall.
[State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



DH 10 – GPS Survey Monument located on the west side of High Street, in front of house #1025 High Street.





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT DH11

1 inch equals 80 feet



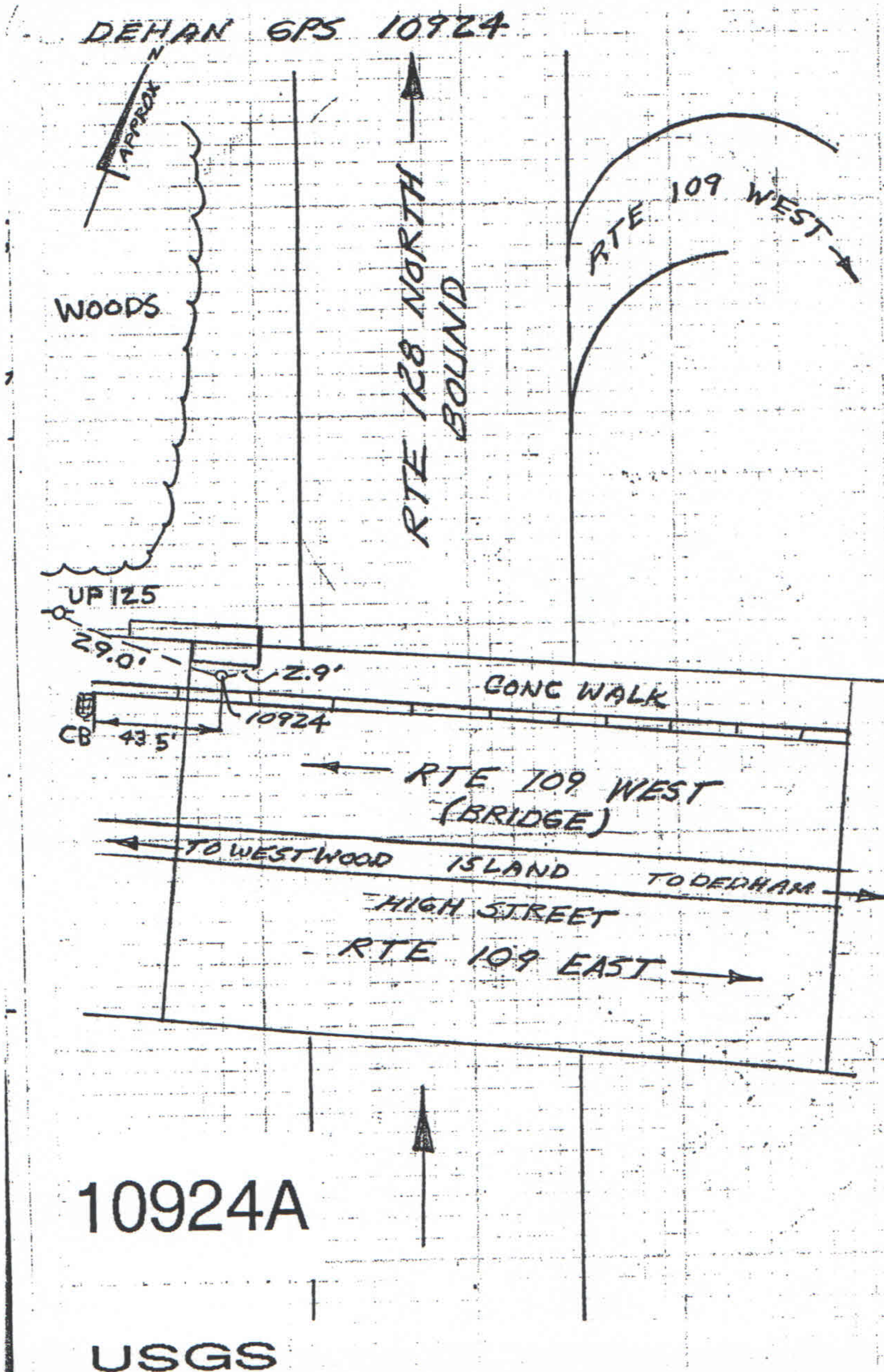
TOWN OF DEDHAM, MASSACHUSETTS

2008 TOWN OF DEDHAM, MA
GEODETIC HORIZONTAL & VERTICAL CONTROL
 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
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PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT
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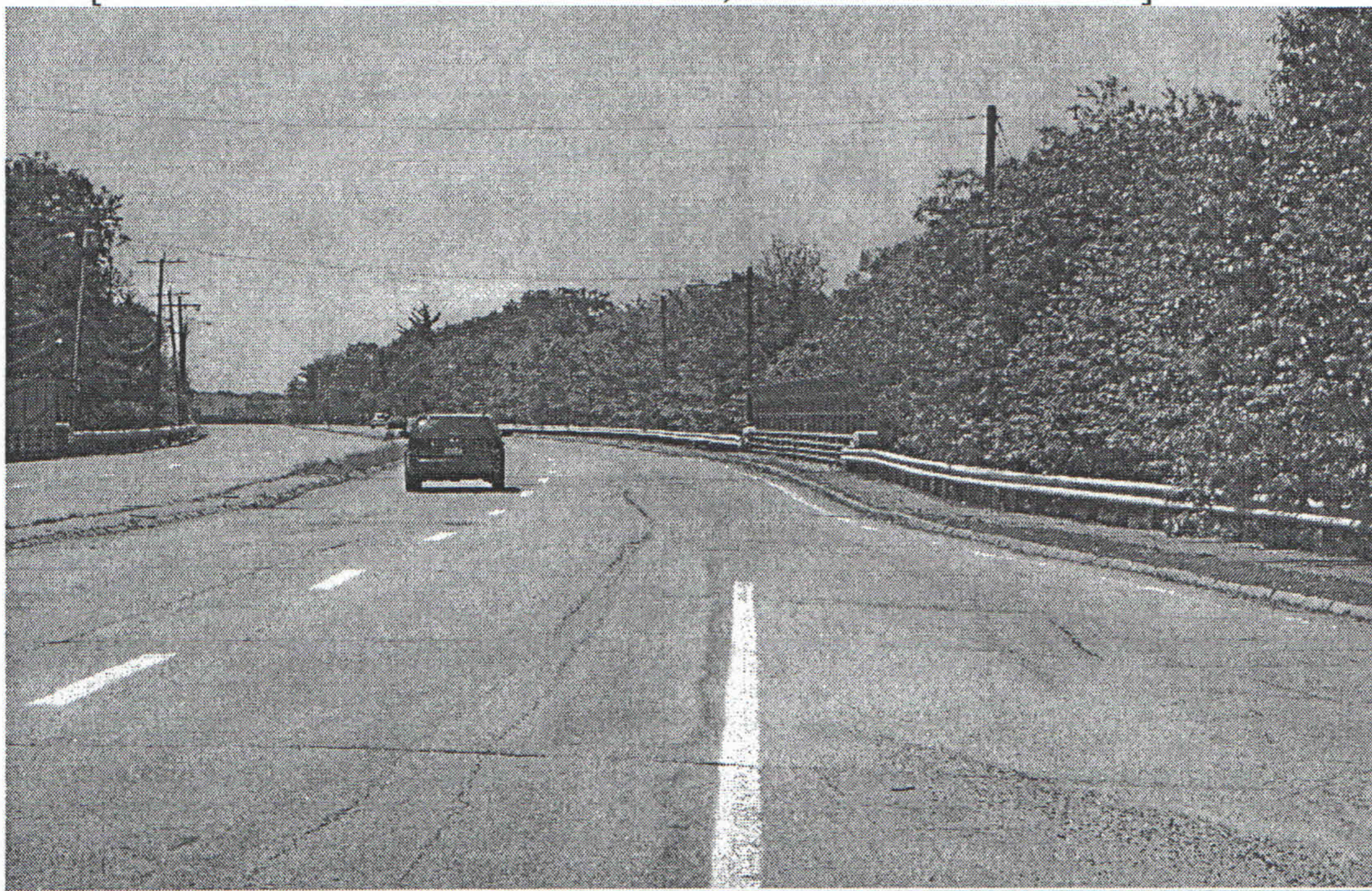
THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 10924A USGS DISK		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-14'-40.44770486" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-12'-08.05726963" W	U.S.FEET	2914288.463	736790.501	212.350
GEOID HEIGHT:	(-28.229944) (M)	METERS	888276.900	224574.194	64.725
CONVERGENCE ANGLE: 0°-12'-00.05467"		S.F.: 0.999964843		COMBINED S.F.: 0.999959116	



10924A – GPS Survey Monument located on the north side of High Street (Rte. 109), on the northeast bridge abutment over Rte. 128 North in the Town of Dedham, MA

The point is a USGS brass disc set in a concrete sidewalk in front of the end of the guard rail. [State Plane Coordinates-NAD83/2003, Elevations-NAVD 1988]



2008 TOWN OF DEDHAM, MA
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 (NAVD88-ORTHOMETRIC ELEVATIONS)
 VALUES IN U.S. SURVEY FEET & METERS

PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT
 649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: CHS4A BRASS DISK		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-14'-42.81240066" N	NORTHING	EASTING	ORTHOMETRIC HEIGHT	
LONGITUDE	71°-11'-59.59863035" W	U.S.FEET	2914530.062	737425.854	193.285
GEOID HEIGHT:	(-28.226177) (M)	METERS	888350.540	224767.850	58.913
CONVERGENCE ANGLE: 0°-12'-05.73658"		S.F.: 0.999964852		COMBINED S.F.: 0.999960036	

CHAS. H. SELLS, INC. 550 BEDFORD ROAD, BEDFORD HILLS, NEW YORK 10507 Consulting Engineers, Surveyors, Photogrammetrists G.P.S. SURVEY OBSERVATION DATA STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/96)(NAVD88) VALUES IN METERS AND U.S. SURVEY FEET				PROJECT #: 99502 PROJECT NAME: DEDHAM, MA DATE: 10/8/99	
THE ORTHOMETRIC HEIGHT WAS DETERMINED BY G.P.S. OBSERVATIONS THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID96..					
STATION: DED-4A		SESSION: -		OBS. DATE: 9/30/99	
OBSERVER: STEVE SCHOPFER		STATE PLANE COORDINATES		VERT. DATUM: NAVD88	
OTHER STATION(S) IN SESSION: -		NORTHING		EASTING	
		METERS 888350.545		224767.831	
GEOGRAPHICAL POSITION		FEET 2914530.08		737425.79	
LATITUDE	42°-14'-42.81258"	S.F.: 0.999964852	CONV. γ : 0°-12'-05.73603"	S.L.F.: 0.999995189	
LONGITUDE	71°-11'-59.59944"	RECEIVER # -	ANTENNA HEIGHT	ANTENNA # -	
ORTHO. HT.: 58.881	(m)	JULIAN DATE: -	(m)	(m)	AVG.(m)
GEOID. HT.: -28.224	(m)	JULIAN DATE: -	-	-	-
ESTABLISHED BY	YEAR	JULIAN DATE: -	-	-	-
CHAS. H. SELLS, INC.	1999	JULIAN DATE: -	-	-	-
DETAIL DESCRIPTION AT STATION: STATION IS A METAL ROD WITH A BRASS CAP SET FLUSH WITH THE GROUND. <i>Recovered in good condition 10/17/07 JSP</i>					
SKETCH OF STATION LOCATION NOT TO SCALE					

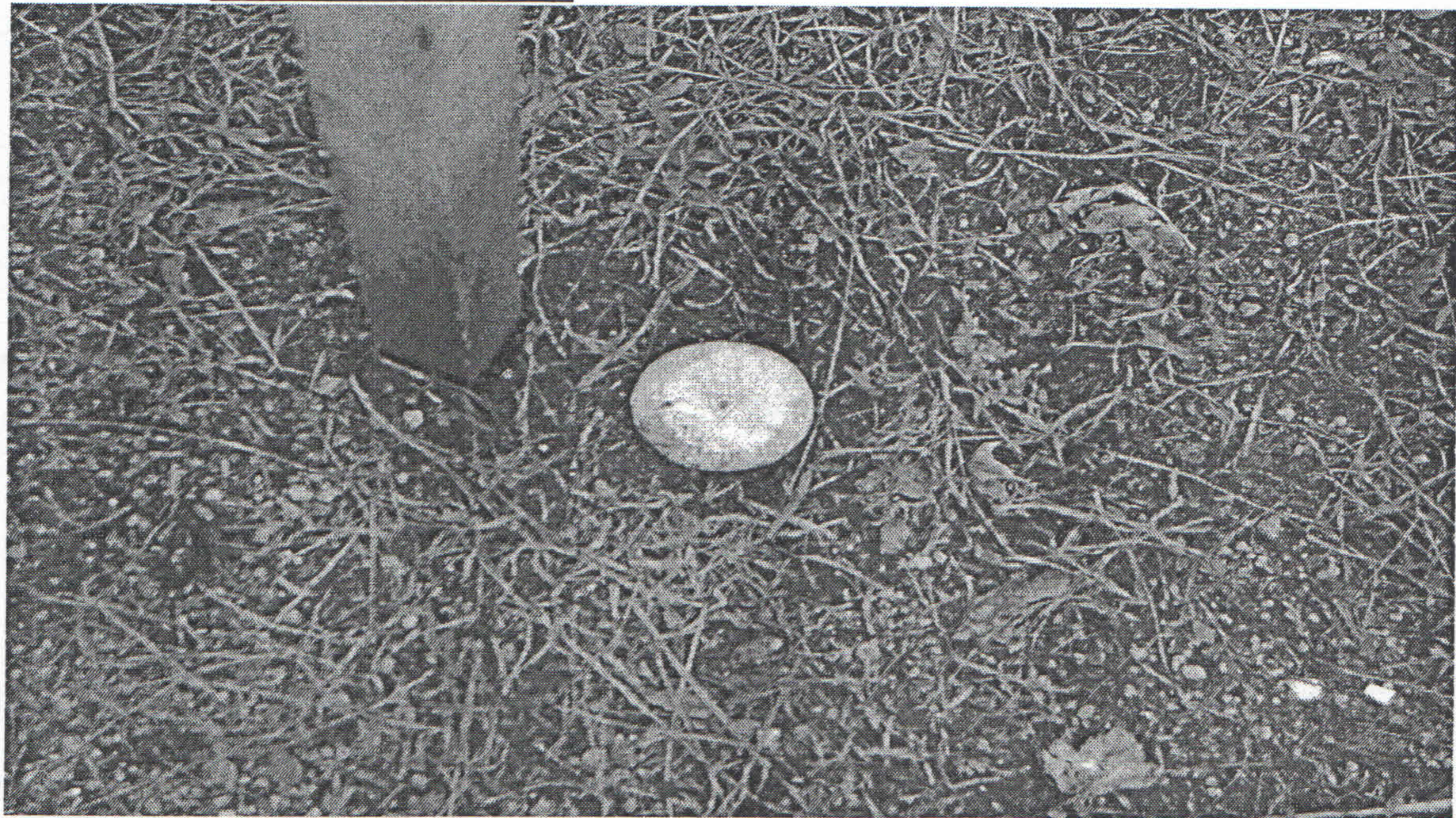
CHS 4A – GPS Survey Monument located on the north side of High Street (Rte. 109), on traffic island between Rte. 128 North onramp and bridge abutment over Rte. 128 North in the Town of Dedham, MA

The point is a brass disc set on a steel rod in the grass.

[State Plain Coordinates-NAD83/2003, Elevations-NAVD 1988]



CHS 4A – GPS Survey Monument located on the north side of High Street (Rte. 109), on traffic island between Rte. 128 North onramp and bridge abutment over Rte. 128 North in the Town of Dedham, MA





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT 61A

1 inch equals 80 feet



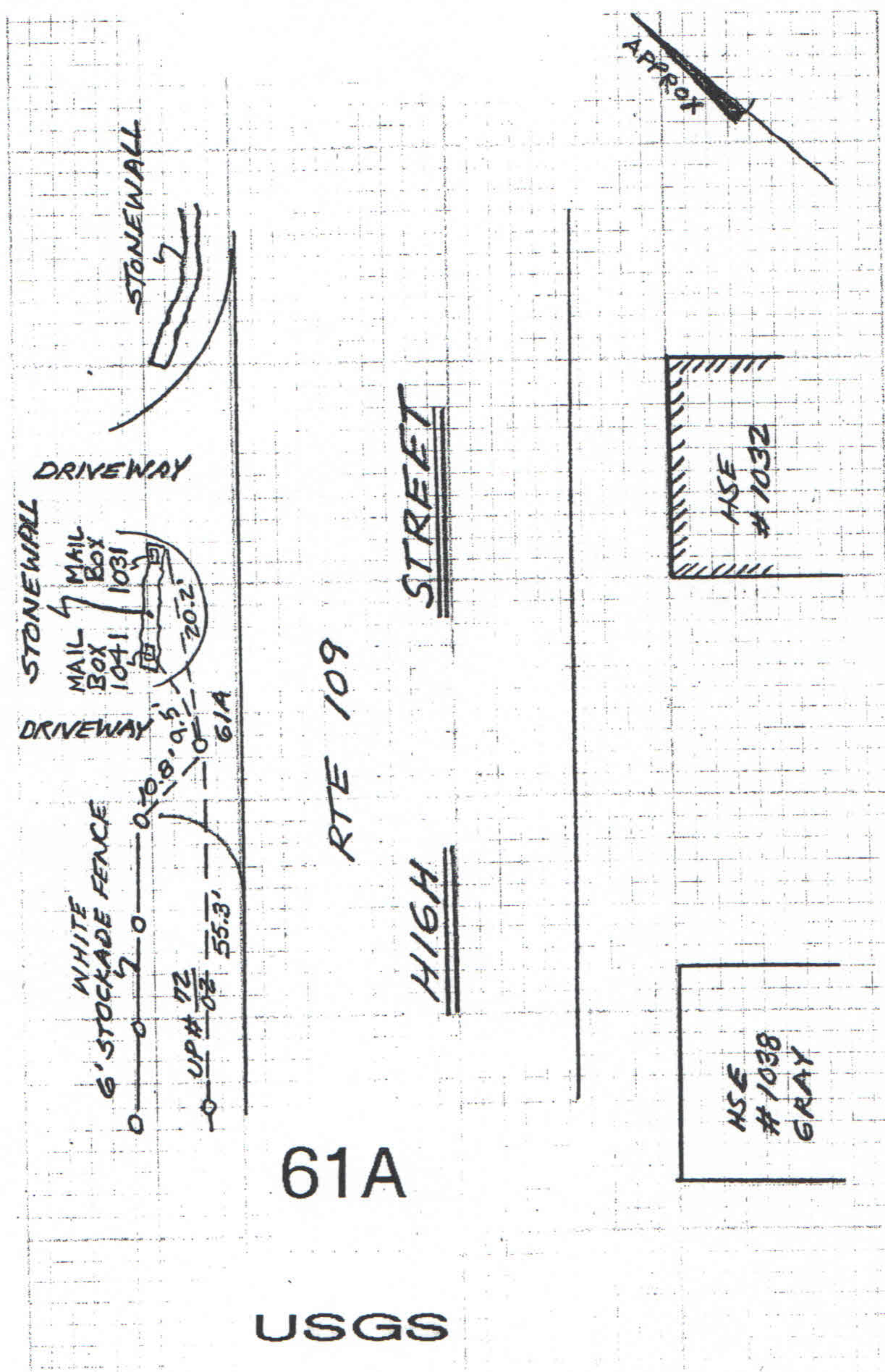
TOWN OF DEDHAM, MASSACHUSETTS

2008 TOWN OF DEDHAM, MA
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 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
 (NAVD88-ORTHOMETRIC ELEVATIONS)
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PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT
 649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 61A USGS DISK		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-14'-52.89671" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-11'-29.72832" W	U.S.FEET	2915558	739668	123.590
GEOID HEIGHT:		METERS			
CONVERGENCE ANGLE: 0°-12'-25.80132"		S.F.: 0.999964891		COMBINED S.F.: 0.999963407	

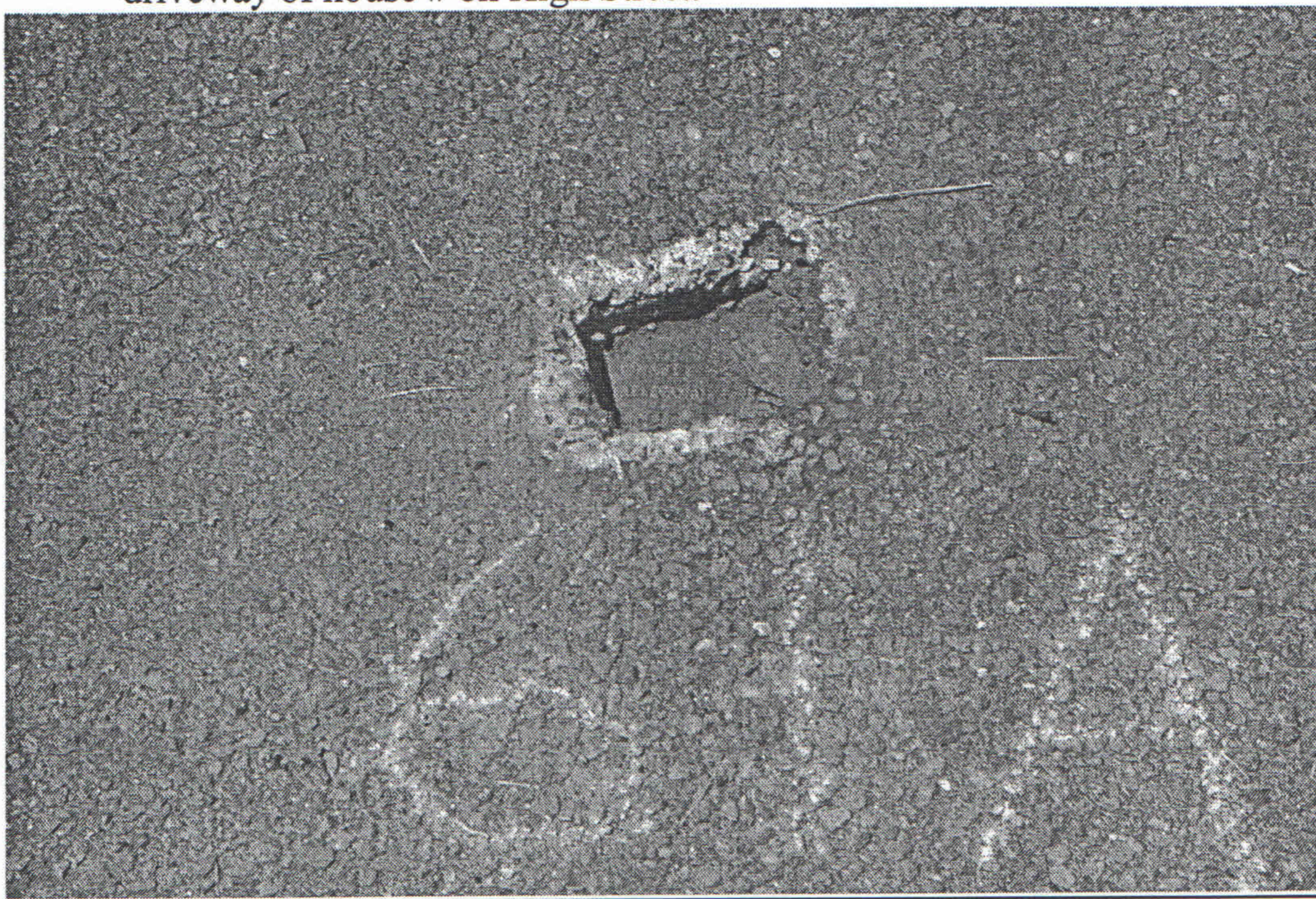


61A **Benchmark Elevation Monument** located on the northwest side of the High Street in the middle of the paved driveway for house # , which is just southwest of DH10 in the Town of Dedham, MA

The point is a U.S.G.S. brass disc stamped "61A" set in a concrete.
[Elevations only-NAVD 1988]



61A – USGS Benchmark Elevation Monument located in the middle of paved driveway of house # on High Street.

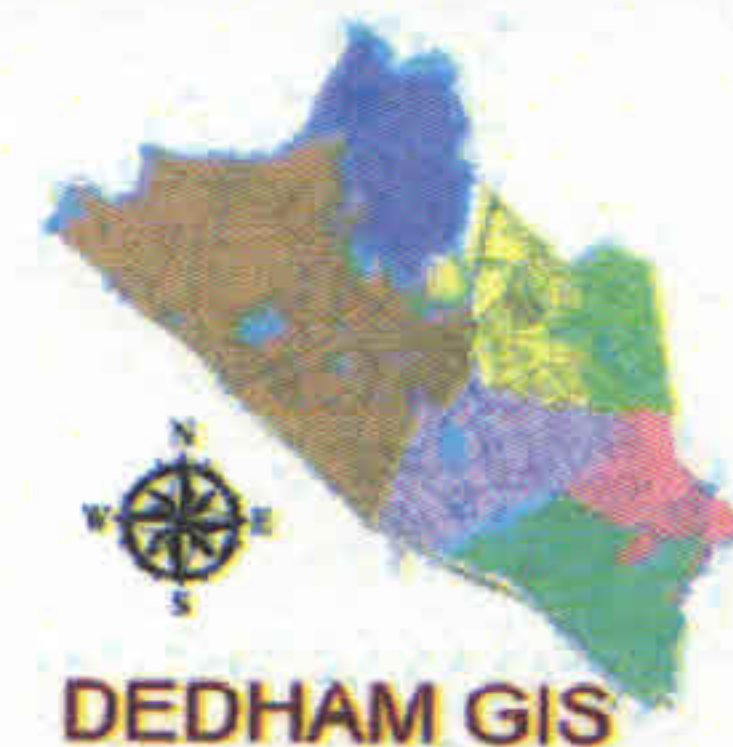




Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT 61B

1 inch equals 80 feet



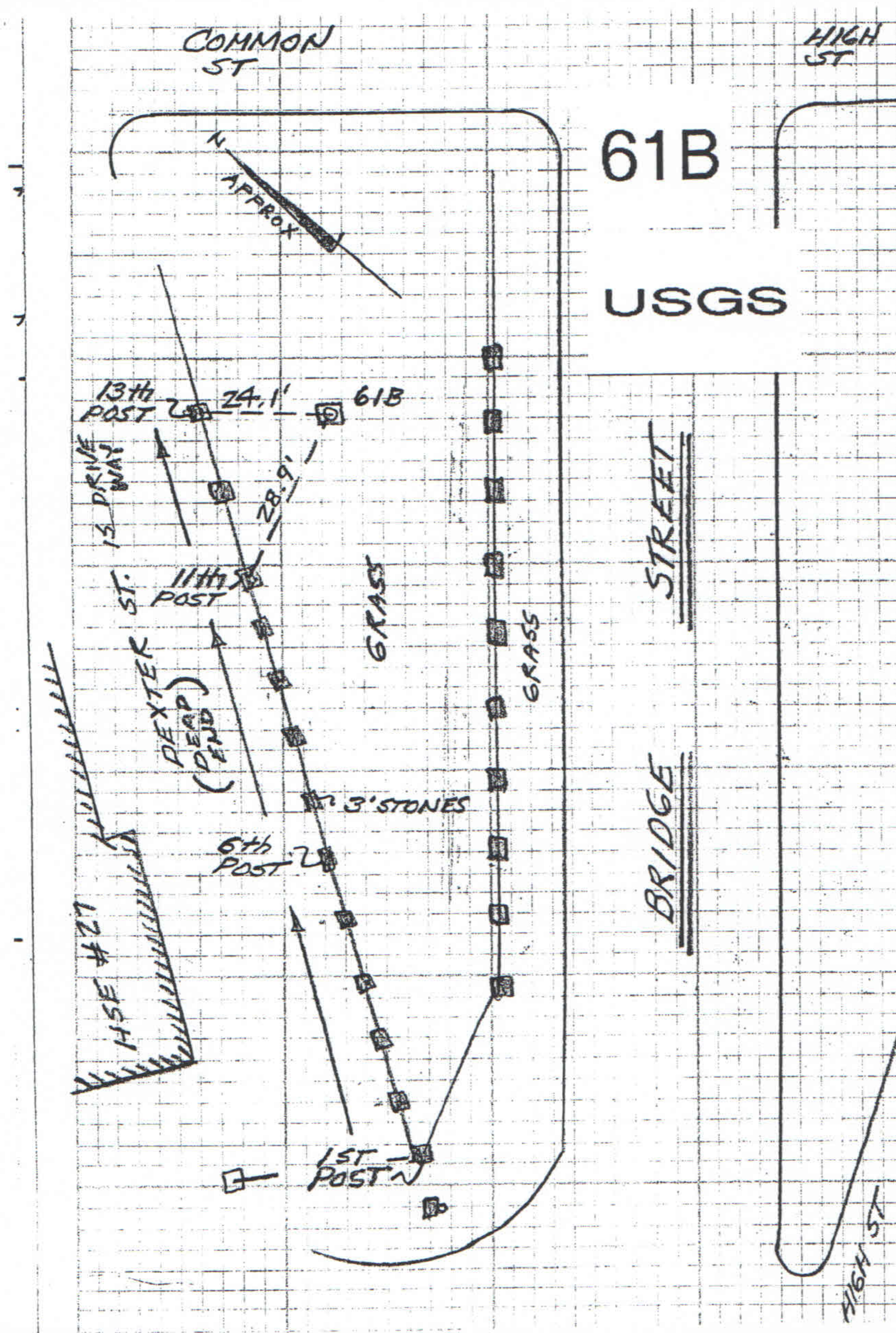
TOWN OF DEDHAM, MASSACHUSETTS

2008 TOWN OF DEDHAM, MA
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 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
 (NAVD88-ORTHOMETRIC ELEVATIONS)
 VALUES IN U.S. SURVEY FEET & METERS

PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT
 649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 61B USGS DISK		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-15'-06.65554" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-11'-07.37646" W	U.S.FEET	2916958	741345	125.225
GEOID HEIGHT:		METERS			
CONVERGENCE ANGLE: 0°-12'-40.81571"		S.F.: 0.999964948	COMBINED S.F.: 0.999963384		



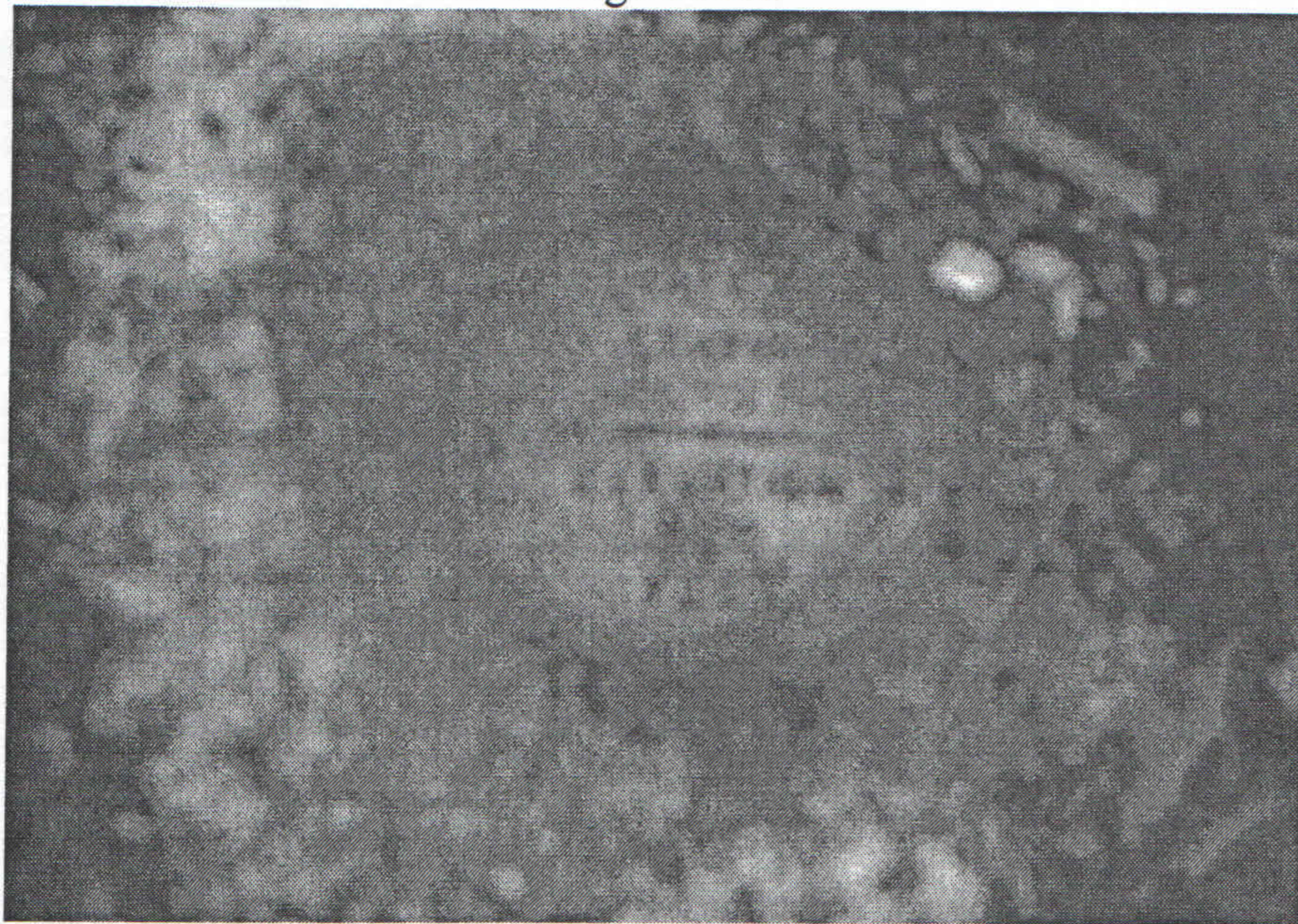
61B **Benchmark Elevation Monument** located between the north side of the High Street and the southeast side of Dexter Street, in the middle of the grass triangular park ,which is just southwest of the intersection of Common Street and Bridge Street in the Town of Dedham, MA

The point is a U.S.G.S. brass disc stamped "61B" set in a concrete.

[Elevations only-NAVD 1988]



61B – USGS Benchmark Elevation Monument located in the middle of grass park on the northwest side of High Street.





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT 61F

1 inch equals 80 feet



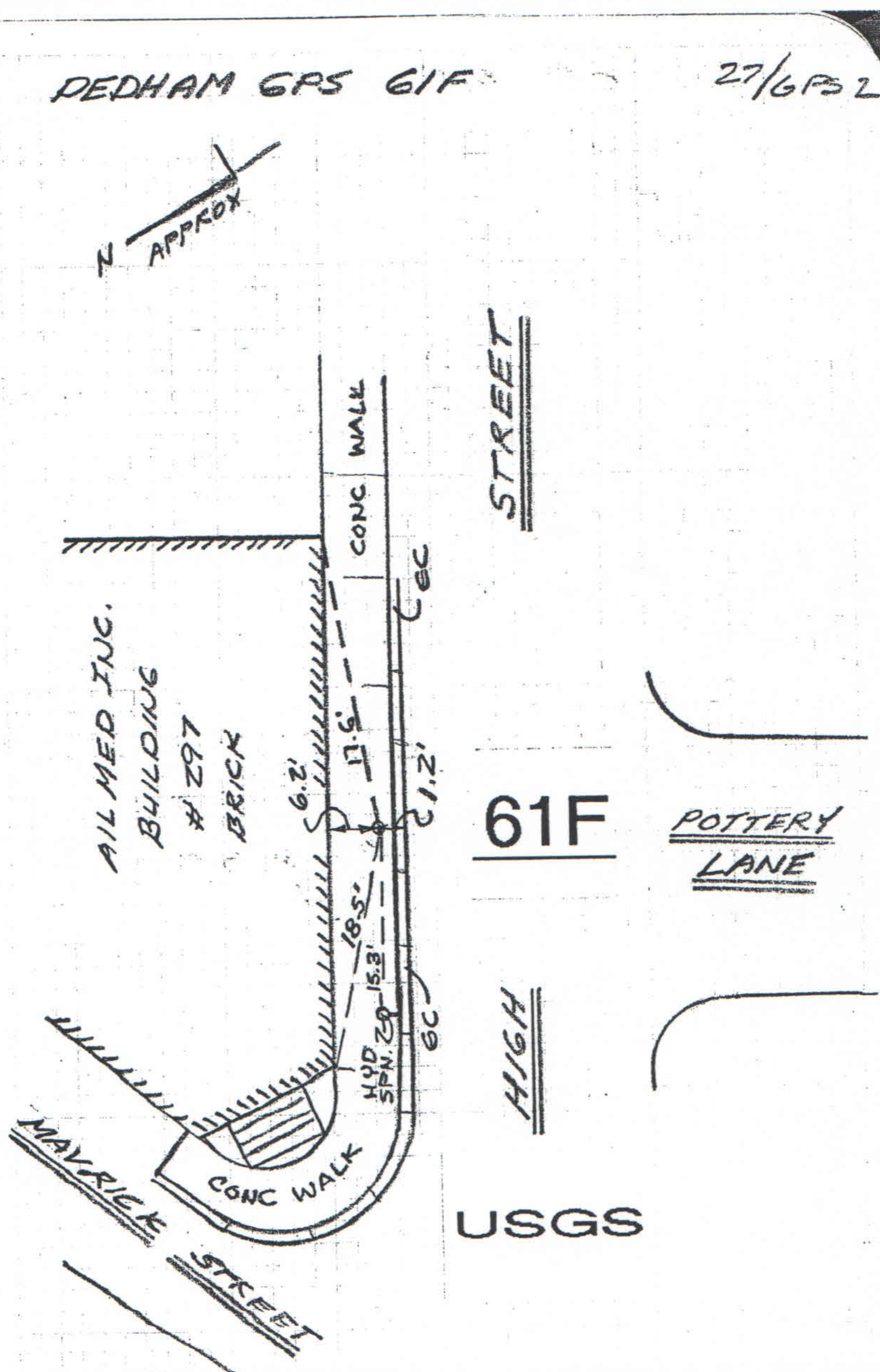
TOWN OF DEDHAM, MASSACHUSETTS

2008 TOWN OF DEDHAM, MA
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 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
 (NAVD88-ORTHOMETRIC ELEVATIONS)
 VALUES IN U.S. SURVEY FEET & METERS

PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT
 649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 61F USGS DISK		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-14'-53.21114" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-09'-37.43082" W	U.S.FEET	2915623	748114	91.390
GEOID HEIGHT:		METERS			
CONVERGENCE ANGLE: 0°-13'-41.23477"		S.F.: 0.999964892		COMBINED S.F.: 0.999964944	

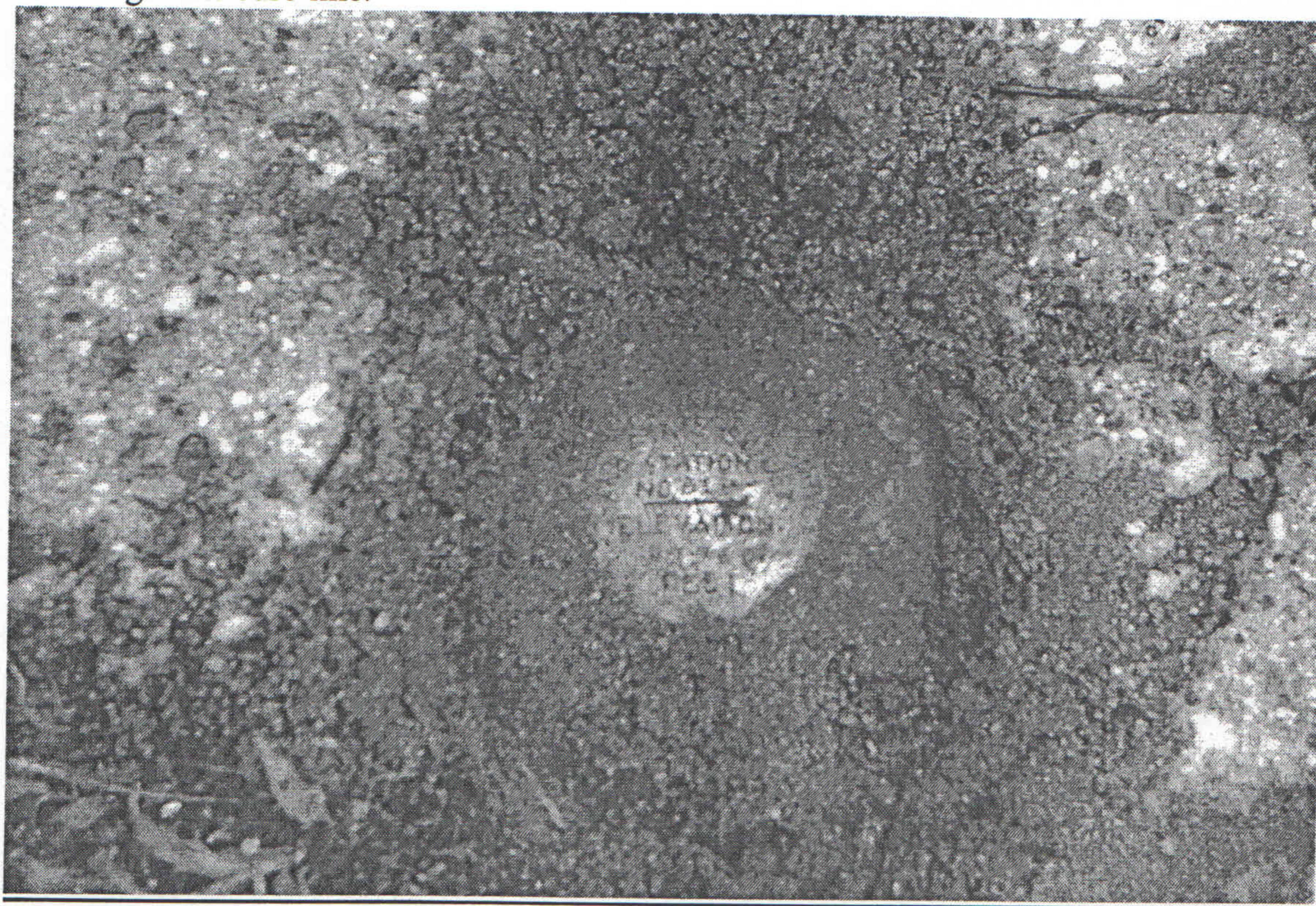


61F **Benchmark Elevation Monument** located on the northeast side of the High Street in front of the AliMed Inc. building, just south of Maverick Street in the Town of Dedham, MA

The point is a U.S.G.S. brass disc stamped "61F" set in a granite stone bound.
[Elevations only-NAVD 1988]



61F – USGS Benchmark Elevation Monument located in concrete sidewalk at back of granite curb line.





Legend

Monument Type



Dedham

**GEODETIC & BENCH MARK MAP
POINT 61LA**

1 inch equals 80 feet



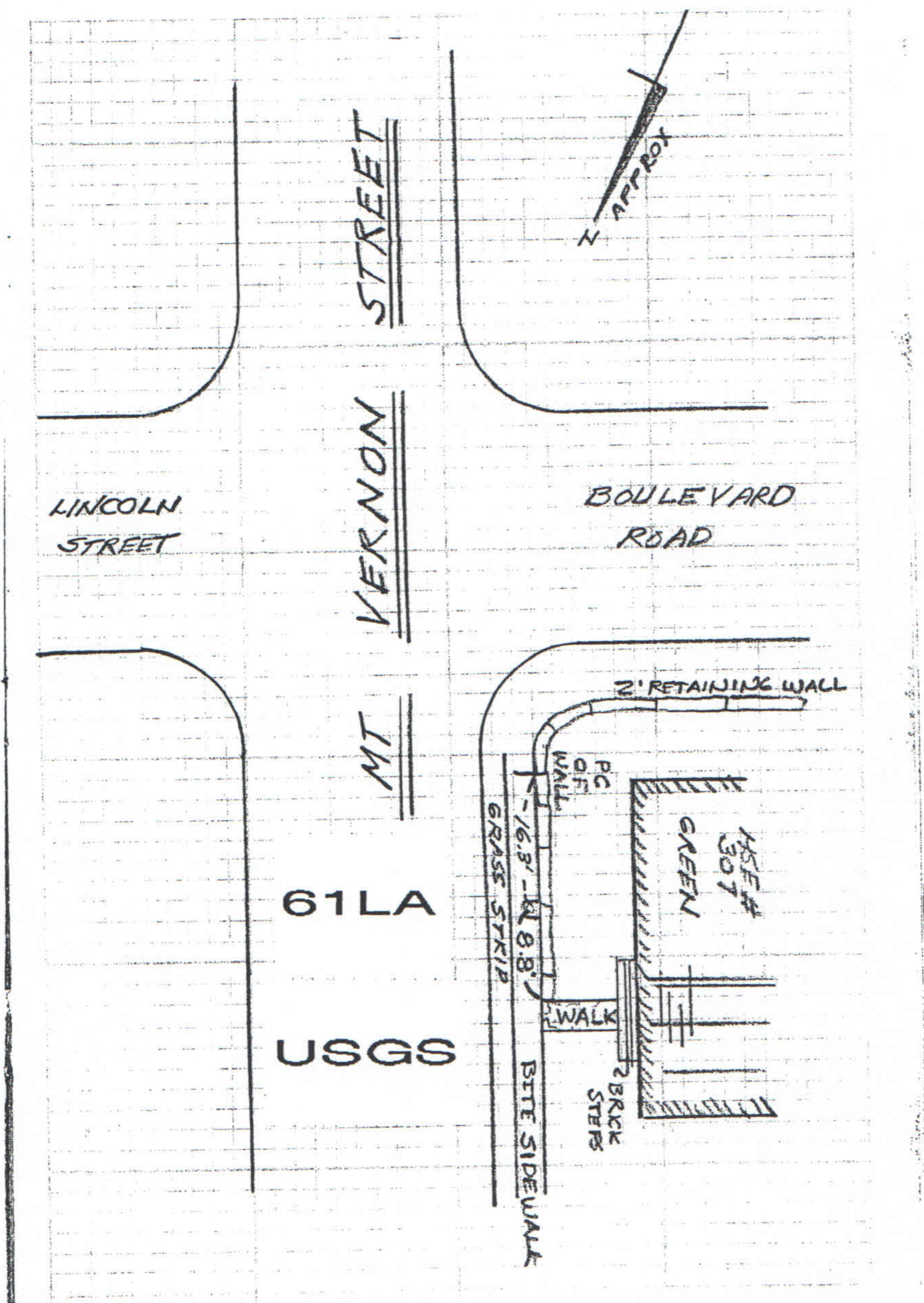
TOWN OF DEDHAM, MASSACHUSETTS

2008 TOWN OF DEDHAM, MA
GEODETIC HORIZONTAL & VERTICAL CONTROL
 STATE PLANE COORDINATE SYSTEM, MASSACHUSETTS MAINLAND, 2001 (NAD83/2003)
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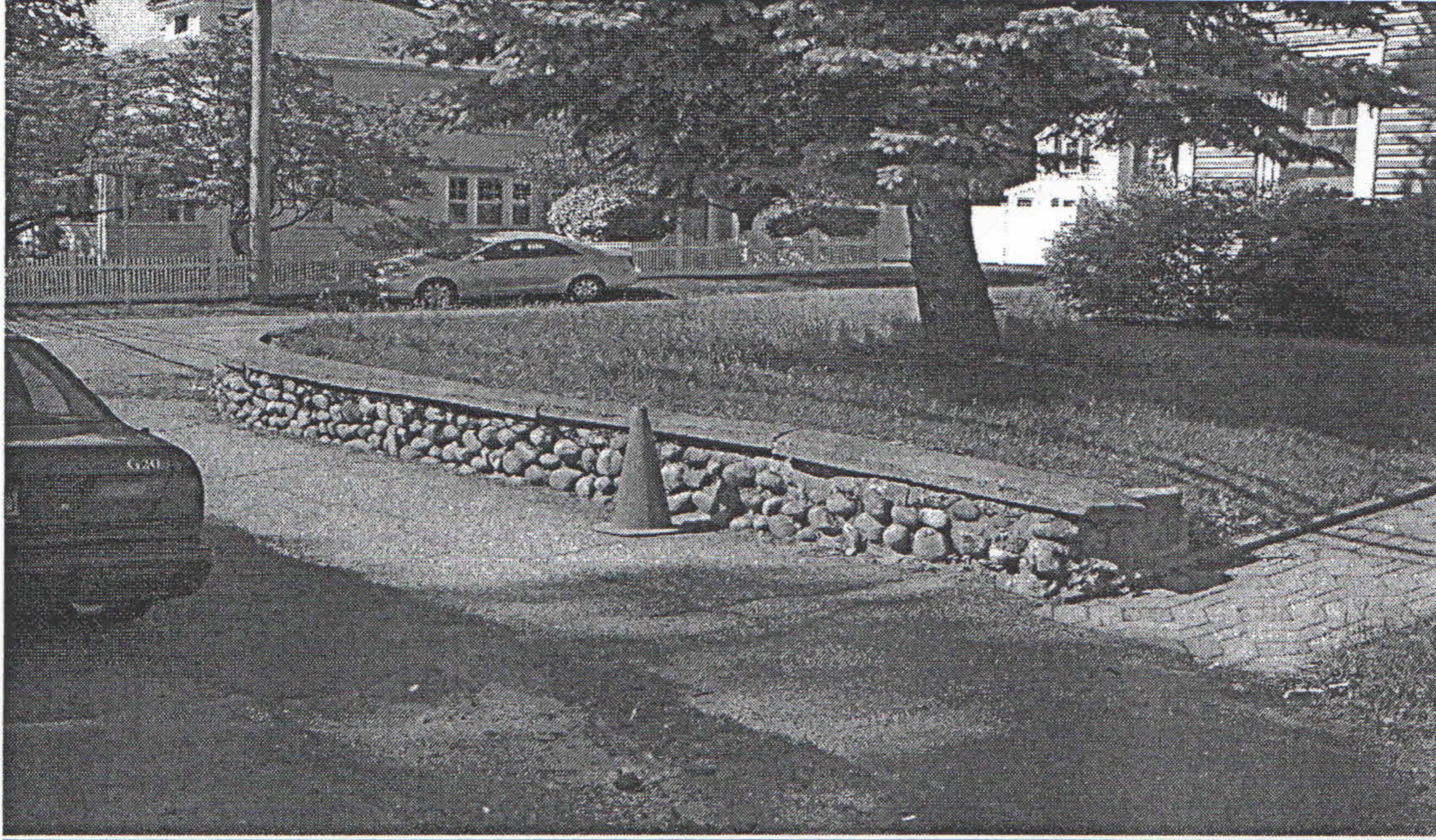
THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 61LA USGS DISK		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-14'-18.06499" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-09'-34.84354" W	U.S.FEET	2912066	748323	147.890
GEOID HEIGHT:		METERS			
CONVERGENCE ANGLE: 0°-13'-42.97273"		S.F.: 0.999964766		COMBINED S.F.: 0.999962119	

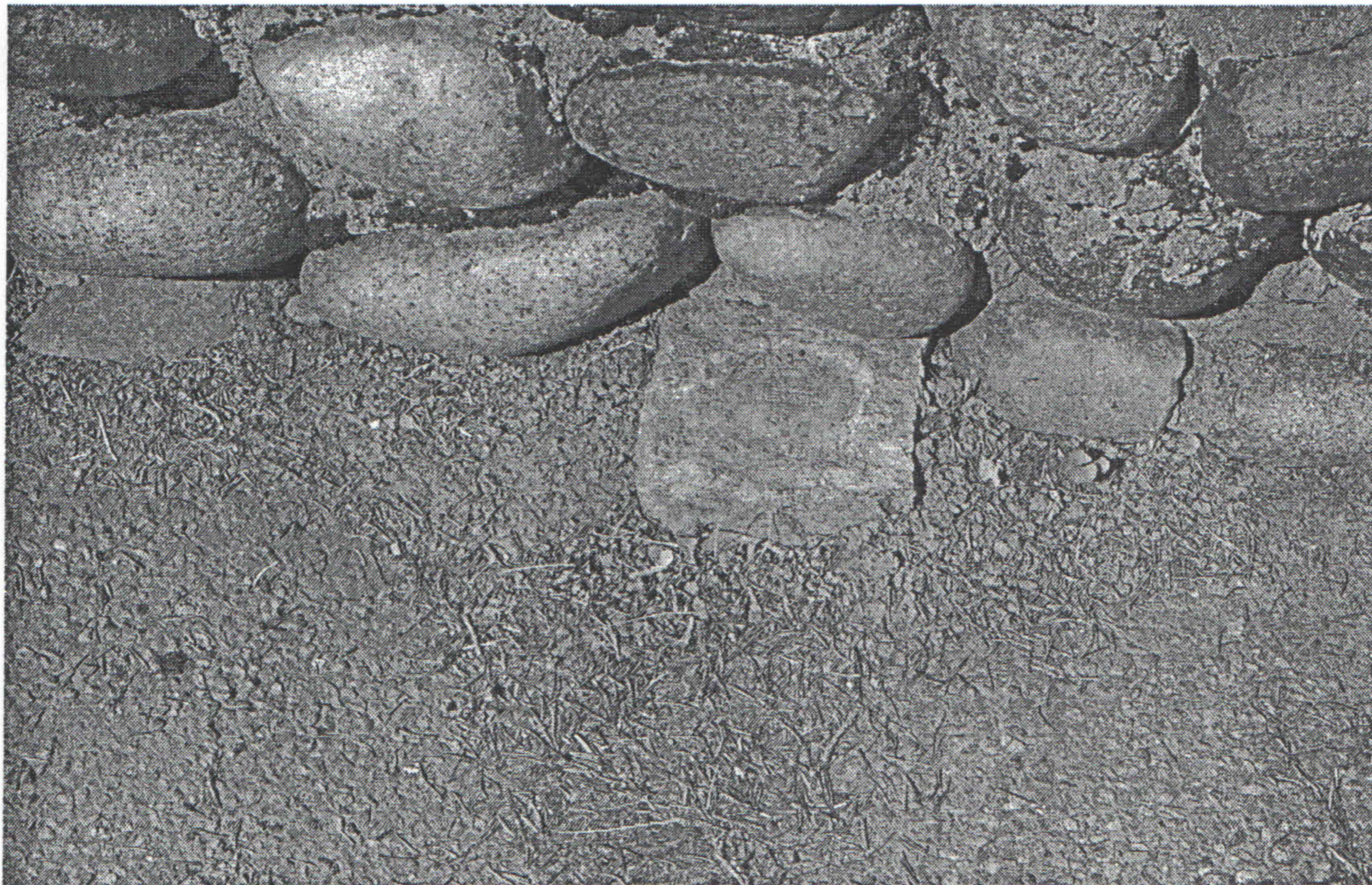


61LA Benchmark Elevation Monument located the northwest side Mount Vernon Street, just northwest of the northwest intersection of Mount Vernon Street and Sanderson Ave. in the Town of Dedham, MA

The point is a U.S.G.S. brass disc stamped "61LA" set in a granite bound.
[Elevations only-NAVD 1988]



61LA – USGS Benchmark Elevation Monument located in a granite bound at the back of the bituminous sidewalk at base of fieldstone retaining wall in front of house #307 Mount Vernon Street.





Legend
Monument Type
 Dedham

GEODETIC & BENCH MARK MAP POINT MHD7403

1 inch equals 80 feet



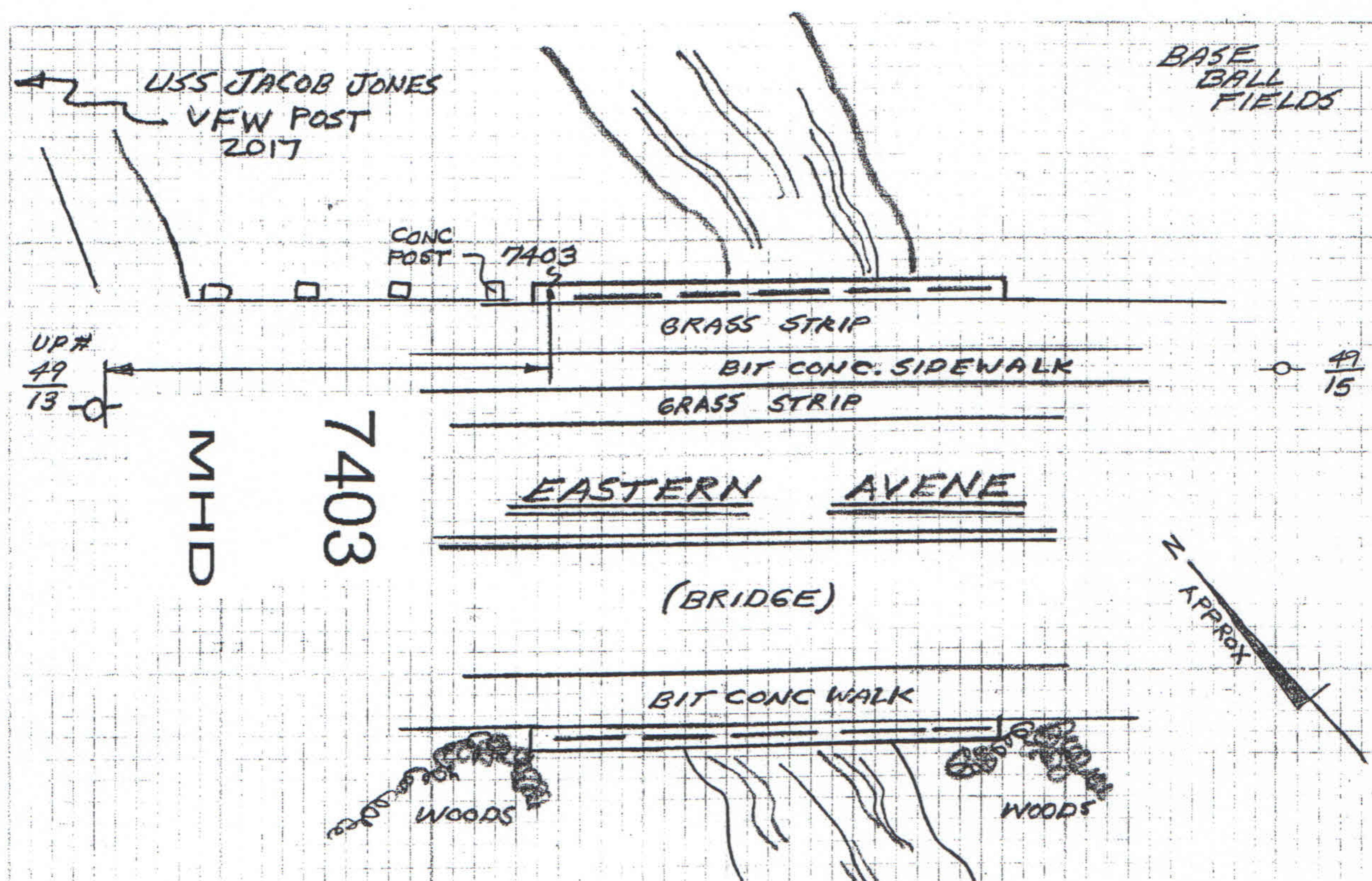
TOWN OF DEDHAM, MASSACHUSETTS

2008 TOWN OF DEDHAM, MA
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PREPARED BY: NORFOLK COUNTY ENGINEERING DEPARTMENT
 649 HIGH ST., DEDHAM, MA 02026 PHONE: (781)461-6128

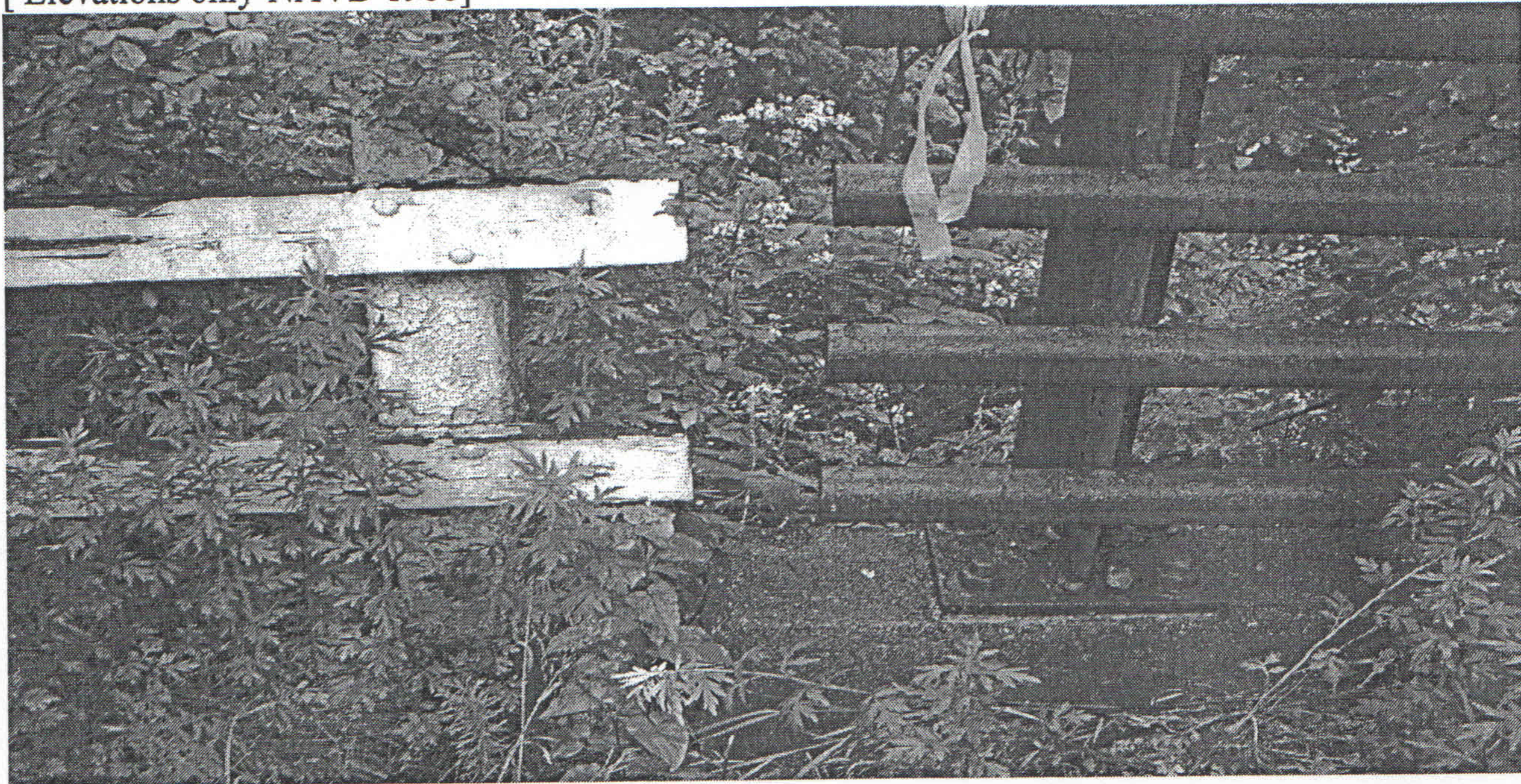
THE ORTHOMETRIC HEIGHT WAS DETERMINED FROM DIFFERENTIAL LEVELING
 THE GEOIDAL HEIGHT WAS DETERMINED FROM N.G.S. GEOID2003

STATION: 7403 MHD RIVET		DESC.: STATION IS A STAINLESS STEEL ROD W/PUNCH			
GEOGRAPHIC POSITION		STATE PLANE COORD.(NAD83)		VERT. DATUM (NAVD88)	
LATITUDE	42°-14'-39.66494" N		NORTHING	EASTING	ORTHOMETRIC HEIGHT
LONGITUDE	71°-10'-14.47525" W	U.S.FEET	2914241	745334	93.155
GEOID HEIGHT:		METERS			
CONVERGENCE ANGLE: 0°-13'-16.35097"		S.F.: 0.999964840		COMBINED S.F.: 0.999964811	



MHD 7403 – **Benchmark Elevation Monument** located at the northeast side of the intersection of Eastern Ave. and Wigwam Brook in the Town of Dedham, MA

The point is a rivet with rounded tip and punch set in concrete headwall.
[Elevations only-NAVD 1988]



MHD 7403 – **Benchmark Elevation Monument** located on concrete headwall



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DEDHAM GPS LEVELS			NCED 5A TO 5B				ENV. # 962		PGH		
							N.B. 635/8 & 9	U.S. FEET	10/15/2007	METERS	
LOC.	TURN	DIST	BS	HI	FS	DIST	ELEV.	ADJ. =	DESC.	ADJ. =	
							N.A.V.D 1988	N.A.V.D 1988		N.A.V.D 1988	
			5.98	118.54			112.56		BM ROD 5A	34.309	
	1		5.46	121.20	2.80		115.74	115.74	TP		
	2		2.79	120.77	3.22		117.98	117.98	TP LOCBGS #61 VILLAGE ST.		
	3		5.37	120.94	5.20		115.57	115.57	TP		
	4		6.11	121.25	5.80		115.14	115.14	BM ROD 5B	35.095	
	5		5.34	121.32	5.27		115.98	115.98	TP		
	6		3.50	118.86	5.96		115.36	115.36	TP		
	7				6.30		112.56	112.56	BM ROD 5A	34.309	
							0.00				
							0.00	=ADJ. FOR EACH TP			

Z:\LD2005PROJ\Dedham1962 DEDHAM LEVELS\LEVELS-DEDHAM-2007-FINAL.xls

Z:\LD2005PROJ\Dedham\962 DEDHAM LEVELS\LEVELS-DEDHAM-2007-FINAL.xls

DEDHAM GPS LEVELS			NCED 5A TO 4A				ENV. # 954		PGH	
							N.B. 635/24-27	U.S. FEET	10/15/2007	METERS
LOC.	TURN	DIST	BS	HI	FS	DIST	ELEV.	ADJ. =	DESC.	ADJ. =
							N.A.V.D 1988	N.A.V.D 1988		N.A.V.D 1988
	1		5.90	118.46			112.56		BM ROD 5A	34.309
	2		5.18	118.22	5.42		113.04	113.04	TP	
	3		4.52	115.98	6.76		111.46	111.46	BM USGS DISK 61D	
	4		3.45	112.93	6.50		109.48	109.48	TP	
	5		1.27	108.60	5.60		107.33	107.33	TP	
	6		2.49	101.06	10.03		98.57	98.57	TP	
	7		8.17	107.34	1.89		99.17	99.17	TP	
	8		1.84	104.98	4.20		103.14	103.14	TP	
	9		1.79	98.62	8.15		96.83	96.83	TP	
	10		7.35	99.45	6.52		92.10	92.10	TP	
	11		5.97	103.47	1.95		97.50	97.50	TP	
	12		2.93	100.99	5.41		98.06	98.06	TP	
	13		3.49	100.42	4.06		96.93	96.93	TP LOCLSS #18 AMES ST.	
	14		3.99	99.86	4.55		95.87	95.87	TP	
	15		5.12	100.21	4.77		95.09	95.09	TP	
	16		3.16	99.06	4.31		95.90	95.90	TP	
	17		2.53	94.92	6.67		92.39	92.39	TP ROCC WALK #267 BRIDGE ST.	
	18		5.77	98.21	2.48		92.44	92.44	TP	
	19		4.94	99.23	3.92		94.29	94.29	TP	
	20		3.97	98.91	4.29		94.94	94.94	TP ROCLCS #200 BRIDGE ST.	
	21		4.35	98.29	4.97		93.94	93.95	TP ROCC WALK #133 BRIDGE ST.	
	22		5.74	98.79	5.24		93.05	93.06	TP	
	23		4.77	100.34	3.22		95.57	95.58	TP	
	24		8.34	103.71	4.97		95.37	95.38	TP	
	25		2.44	102.08	4.07		99.64	99.65	TP	
	26		6.63	101.83	6.88		95.20	95.2060	BM ROD 4A	29.019
	27		4.04	103.67	2.20		99.63	99.64	TP	
	28		4.94	100.30	8.31		95.36	95.37	TP	
	29		3.29	98.85	4.74		95.56	95.57	TP	
	30		5.11	98.15	5.81		93.04	93.05	TP	
	31		4.81	98.75	4.21		93.94	93.95	TP ROCC WALK #133 BRIDGE ST.	
	32		4.33	99.27	3.81		94.94	94.95	TP ROCLCS #200 BRIDGE ST.	
	33		4.02	98.30	4.99		94.28	94.29	TP	
	34		2.70	95.13	5.87		92.43	92.44	TP	
	35		6.80	99.18	2.75		92.38	92.39	TP ROCC WALK #267 BRIDGE ST.	
	36		4.46	100.36	3.28		95.90	95.91	TP	
	37		4.34	99.43	5.27		95.09	95.10	TP	
	38		4.60	100.46	3.57		95.86	95.87	TP	
	39		4.25	101.17	3.54		96.92	96.93	TP	
	40		5.34	103.39	3.12		98.05	98.06	TP	
	41		1.94	99.43	5.90		97.49	97.50	TP	
	42		6.52	98.61	7.34		92.09	92.10	TP	
	43		8.12	104.95	1.78		96.83	96.84	TP	
	44		3.70	106.84	1.81		103.14	103.15	TP	
	45		2.03	101.20	7.67		99.17	99.18	TP	
	46		10.45	109.02	2.63		98.57	98.58	TP	
	47		5.73	113.07	1.68		107.34	107.35	TP	
	48		6.37	115.86	3.58		109.49	109.50	TP	
	49		6.50	117.97	4.39		111.47	111.48	BM USGS DISK 61D	
	50		5.27	118.31	4.93		113.04	113.05	TP	
					5.76		112.55	112.56	BM ROD 5A	34.309
	LEVEL LOOP CLOSURE ERROR=				-0.01		0.00	=ADJ. FOR EACH TP		

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DEDHAM GPS LEVELS							ENV. # 962		PGH	
NCED 5A TO MHD 10924 & USGS 61A,B,D & NCED DISK 10							N.B. 635/1-71	U.S. FEET	10/152007	METERS
LOC.	TURN	DIST	BS	HI	FS	DIST	ELEV.	ADJ. =	DESC.	ADJ. =
							N.A.V.D 1988	N.A.V.D 1988		N.A.V.D 1988
	1		5.76	118.32			112.56		BM ROD 5A	34.309
	2		4.91	118.05	5.18		113.14	113.14	TP	
	3		6.85	118.33	6.57		111.48	111.49	BM USGS 61D	33.981
	4		5.89	120.29	3.93		114.40	114.41	TP	
	5		4.88	122.59	2.58		117.71	117.72	TP	
	6		5.58	125.38	2.79		119.80	119.81	TP	
	7		3.19	125.63	2.94		122.44	122.45	TP	
	8		5.80	126.53	4.90		120.73	120.75	TP	
	9		4.89	129.79	1.63		124.90	124.92	BM MERIDIAN STONE HIGH ST	38.076
	10		4.52	129.72	4.59		125.20	125.22	BM USGS 61B	38.168
	11		3.02	129.09	3.65		126.07	126.09	BM MERIDIAN STONE DEXTER	38.434
	12		2.99	128.19	3.89		125.20	125.23	BM USGS DISK 61B	38.169
	13		6.23	129.92	4.50		123.69	123.72	TP	
	14		4.05	129.51	4.46		125.46	125.49	TP	
	15		6.98	134.03	2.46		127.05		TP	
	16		2.20	134.22	2.01		132.02		TP	
	17		4.54	130.66	8.10		126.12		BM DH10 NCED DISK	38.442
	18		7.38	130.97	7.07		123.59		BM USGS DISK 61A	37.671
	19		10.85	140.56	1.26		129.71		TP	
	20		6.54	143.05	4.05		136.51		TP	
	21		8.57	148.83	2.79		140.26		TP	
	22		8.18	154.20	2.81		146.02		TP	
	23		9.34	161.43	2.11		152.09		TP	
	24		9.27	168.56	2.14		159.29		TP	
	25		9.30	176.16	1.70		166.86		TP	
	26		9.68	182.87	2.97		173.19		TP	
	27		10.65	192.01	1.51		181.36		TP	
	28		7.67	197.52	2.16		189.85		TP	
	29		8.58	201.87	4.23		193.29		BM CHS-4A DISK	58.915
	30		7.81	207.51	2.17		199.70		TP	
	31		9.63	214.55	2.59		204.92		TP	
	32		2.47	214.82	2.20		212.35		MHD USGS BM 10924	64.725
	33		3.23	208.15	9.90		204.92		TP	
	34		2.69	202.39	8.45		199.70		TP	
	35		4.47	197.75	9.11		193.28		BM CHS-4A DISK	58.912
	36		1.59	191.43	7.91		189.84		TP	
	37		2.19	183.53	10.09		181.34		TP	
	38		2.25	175.42	10.36		173.17		TP	
	39		1.99	168.84	8.57		166.85		TP	
	40		1.60	160.88	9.56		159.28		TP	
	41		2.17	154.25	8.80		152.08		TP	
	42		1.90	147.91	8.24		146.01		TP	
	43		2.66	142.91	7.66		140.25		TP	
	44		4.25	140.76	6.40		136.51		TP	
	45		1.73	131.44	11.05		129.71		TP	
	46		6.47	130.06	7.85		123.59		BM USGS DISK 61A	37.671
	47		8.30	134.42	3.94		126.12		NCED BM DISK 10	38.442
	48		2.17	134.19	2.40		132.02		TP	
	49		2.43	129.47	7.15		127.04		TP	
	50		4.27	129.71	4.03		125.44	125.47	TP	
	51		4.14	127.81	6.04		123.67	123.71	TP	
	52		4.53	129.71	2.63		125.18	125.22	BM USGS DISK 61B	38.166
	53		4.16	130.21	3.66		126.05	126.09	BM MERIDIAN STONE DEXTER	38.432
	54		1.41	126.28	5.34		124.87	124.91	BM MERIDIAN STONE HIGH ST	38.073
	55		5.20	125.90	5.58		120.70	120.74	TP	
	56		2.78	125.18	3.50		122.40	122.45	TP	
	57		3.25	123.01	5.42		119.76	119.81	TP	
	58		3.36	121.02	5.35		117.66	117.71	TP	
	59		3.91	118.26	6.67		114.35	114.40	TP	
	60		6.72	118.15	6.83		111.43	111.49	BM USGS DISK 61D	33.981
	61		5.29	118.37	5.07		113.08	113.14	TP	
	62				5.87		112.50	112.56	BM ROD 5A	34.309
LEVEL LOOP CLOSURE ERROR=							-0.06			
(SUM OF BS) -(SUM FS)							0.00	=ADJ. FOR EACH TP		

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NCED 11 TO 2A					ENV. # 962	PGH		
					N.B. 635/62	U.S. FEET	10/15/2007	METERS
TURN	BS	HI	FS		ELEV.	ADJ. =	DESC.	ADJ. =
					N.A.V.D 1988	N.A.V.D 1988		N.A.V.D 1988
	6.14				122.09		(122.09) BM DH11	37.213
1	6.85	128.23	3.85		124.38	124.38	TP	
2	1.29	131.23	8.34		122.89	122.89	TP	
3	2.01	124.18	11.73		112.45	112.45	TP	
4	2.17	114.46	11.18		103.28	103.29	TP	
5	1.93	105.45	11.76		93.69	93.70	TP	
6	1.39	95.62	11.38		84.24	84.25	TP	
7	1.84	85.63	12.13		73.50	73.51	TP	
8	2.48	75.34	11.72		63.62	63.63	TP	
9	3.93	66.10	5.77		60.33	60.34	TP	
10	2.17	64.26	5.66		58.60	58.61	TP	
11	7.14	60.77	6.84		53.93	53.95	BM TOP ROD 2A	16.442
12	5.80	61.07	2.47		58.60	58.62	TP	
13	5.72	64.40	4.07		60.33	60.35	TP	
14	11.32	66.05	2.43		63.62	63.64	TP	
15	12.13	74.94	1.44		73.50	73.52	TP	
16	10.99	85.63	1.39		84.24	84.26	TP	
17	11.60	95.23	1.55		93.68	93.70	TP	
18	11.21	105.28	2.02		103.26	103.28	TP	
19	11.94	114.47	2.04		112.43	112.46	TP	
20	8.46	124.37	1.50		122.87	122.90	TP	
21	3.56	131.33	6.97		124.36	124.39	TP	
22		127.92	5.86		122.06	122.09	(122.09) BM DH11	37.213
		MISCLOSURE=	-0.03			0.00	=ADJ. FOR EACH TP	
					BM DH11= SPIKE 11			

DEDHAM GPS LEVELS				NCED 11 TO 2A		ENV. # 962		PGH		
						N.B. 635/5	U.S. FEET	10/15/2007	METERS	
OC	TURN	BS	HI	FS		ELEV.	ADJ. =	DESC.	ADJ. =	
						N.A.V.D 1988	N.A.V.D 1988		N.A.V.D 1988	
		5.32				53.95		BM TOP ROD 2A	16.442	
	1	1.02	59.27	5.82		53.45	53.45	BM LOCBBS #31 ARDMORE RD.		
	2	4.43	54.47	6.19		48.28	48.28	TP		
	3	6.18	52.71	6.29		46.42	46.42	BM TOP ROD 2B	14.149	
	4	6.86	52.60	4.32		48.28	48.28	TP		
	5	6.73	55.14	2.75		52.39	52.39	TP		
	6		59.12	5.18		53.94	53.95	BM TOP ROD 2A	16.442	
								ARDORE & SHERMAN		
			MISCLOSURE=	-0.01			0.00	=ADJ. FOR EACH TP		

DEDHAM GPS LEVELS				NCED 2B TO 6A		ENV. # 962			PGH	
						N.B. 635/34-37	U.S. FEET		10/15/2007	METERS
LOC.	TURN	BS	HI	FS		ELEV.	ADJ. =	DESC.	ADJ. =	
						N.A.V.D 1988	N.A.V.D 1988			N.A.V.D 1988
		5.78	52.20			46.42	46.42	BM ROD 2B		14.149
	1	7.32	56.53	2.99		49.21	49.21	TP		
	2	2.80	51.52	7.81		48.72	48.72	TP		
	3	4.13	50.70	4.95		46.57	46.57	TP		
	4	5.39	52.74	3.35		47.35	47.35	TP		
	5	7.37	56.89	3.22		49.52	49.52	TP		
	6	11.28	67.14	1.03		55.86	55.86	TP		
	7	10.28	76.36	1.06		66.08	66.08	TP		
	8	10.78	86.22	0.92		75.44	75.44	TP		
	9	11.96	96.76	1.42		84.80	84.81	BM LOCLBS #70 COLWELL		
	10	11.05	106.68	1.13		95.63	95.64	BM LOCLSS #60 COLWELL		
	11	10.96	114.17	3.47		103.21	103.22	TP		
	12	13.09	125.39	1.87		112.30	112.31	TP		
	13	10.49	134.58	1.30		124.09	124.10	TP		
	14	1.08	128.05	7.61		126.97	126.98	TP		
	15	8.85	125.01	11.89		116.16	116.17	TP		
	16	5.82	127.92	2.91		122.10	122.11	TP		
	17	2.66	127.53	3.05		124.87	124.88	BM ROD 6A		38.064
	18	2.49	124.59	5.43		122.10	122.11	TP		
	19	12.75	128.92	8.42		116.17	116.18	TP		
	20	7.46	134.44	1.94		126.98	126.99	TP		
	21	1.18	125.27	10.35		124.09	124.10	TP		
	22	1.09	113.39	12.97		112.30	112.31	TP		
	23	2.55	105.75	10.19		103.20	103.21	TP		
	24	0.92	96.53	10.14		95.61	95.62	BM LOCLSS #60 COLWELL		
	25	1.25	86.03	11.75		84.78	84.79	BM LOCLBS #70 COLWELL		
	26	2.75	78.17	10.61		75.42	75.44	TP		
	27	1.36	67.42	12.11		66.06	66.08	TP		
	28	1.41	57.26	11.57		55.85	55.87	TP		
	29	3.15	52.66	7.75		49.51	49.53	TP		
	30	3.41	50.75	5.32		47.34	47.36	TP		
	31	4.88	51.44	4.19		46.56	46.58	TP		
	32	7.78	56.48	2.74		48.70	48.72	TP		
	33	2.84	52.03	7.29		49.19	49.21	TP		
	34			5.63		46.40	46.42	BM ROD 2B		14.149
					MISCLOSURE= ###					
							0.00	=ADJ. FOR EACH TP		

DEDHAM GPS LEVELS				NCED		ENV. # 962		PGH		
						N.B. 635/68-71	U.S. FEET	10/15/2007	METERS	
LOC.	TURN	BS	HI	FS		ELEV.	ADJ. =	DESC.	ADJ. =	
						N.A.V.D 1988	N.A.V.D 1988		N.A.V.D 1988	
		9.67	134.55			124.88		BM ROD 6A	38.064	
	1	12.11	144.47	2.19		132.36		TP		
	2	7.96	150.55	1.88		142.59		TP		
	3	7.05	150.89	6.71		143.84		TP		
	4	6.32	152.82	4.39		146.50		TP		
	5	1.63	142.10	12.35		140.47		TP		
	6	1.82	134.75	9.17		132.93		TP		
	7	2.42	126.95	10.22		124.53		TP		
	8	5.65	121.39	11.21		115.74		TP		
	9	11.61	129.37	3.63		117.76		TP		
	10	1.50	124.50	6.37		123.00		TP		
	11	5.92	124.72	5.70		118.80		TP		
	12	7.11	130.13	1.70		123.02		TP		
	13	6.25	133.52	2.86		127.27		TP		
	14	3.19	134.13	2.58		130.94		BM LOCLSS # 10 ELMWOOD		
	15	10.61	143.05	1.69		132.44		TP		
	16	8.05	148.98	2.12		140.93		TP		
	17	4.96	151.49	2.45		146.53		TP		
	18	6.32	154.22	3.59		147.90		BM USGS DISK 61LA	45.080	
	19	2.11	146.97	9.36		144.86		TP		
	20	2.61	138.78	10.80		136.17		TP		
	21	2.22	131.96	9.04		129.74		TP		
	22	2.44	129.31	5.09		126.87		BM LOCLBS # 72 BLVD. RD.		
	23	6.67	129.04	6.94		122.37		TP		
	24	4.26	126.76	6.54		122.50		TP		
	25	4.69	127.04	4.41		122.35		BM MHD 7404 RIVET	37.292	
	26	2.65	123.92	5.77		121.27		TP		
	27	1.36	112.98	12.30		111.62		TP		
	28	3.64	107.37	9.25		103.73		TP		
	29	8.15	111.76	3.76		103.61		TP		
	30	1.75	102.50	11.01		100.75		TP		
	31	2.98	97.93	7.55		94.95		TP		
	32	4.14	95.64	6.43		91.50		TP		
	33	5.25	97.75	3.14		92.50		TP		
	34	2.29	95.46	4.58		93.17		BM MHD 7403 RIVET	28.398	
	35	4.06	95.95	3.57		91.89		TP		
	36	7.19	98.71	4.43		91.52		TP		
	37	9.72	105.23	3.20		95.51		TP		
	38	7.36	109.47	3.12		102.11		TP		
	39	5.63	110.23	4.87		104.60		TP		
	40	4.03	110.15	4.11		106.12		TP		
	41	2.13	100.96	11.32		98.83		TP		
	42	4.76	101.16	4.56		96.40		NCED BM ROD 1A	29.383	
	43	10.88	109.71	2.33		98.83		TP		
	44	3.96	110.08	3.59		106.12		TP		
	45	4.78	109.36	5.50		104.58		TP		
	46	3.47	105.57	7.26		102.10		TP		
	47	2.95	98.45	10.07		95.50		TP		
	48	4.25	95.75	6.95		91.50		TP		
	49	3.61	95.47	3.89		91.86		TP		
	50	4.51	97.65	2.33		93.14		BM MHD 7403 RIVET	28.389	
	51	3.05	95.52	5.18		92.47		TP		
	52	6.16	97.63	4.05		91.47		TP		
	53	7.61	102.53	2.71		94.92		TP		

54		11.31	112.03	1.81		100.72		TP		
55		3.36	106.95	8.44		103.59		TP		
56		9.27	112.98	3.24		103.71		TP		
57		11.61	123.22	1.37		111.61		TP		
58		5.55	126.8	1.97		121.25		TP		
59		4.05	126.38	4.47		122.33		BM MHD 7404 RIVET	37.286	
60		6.17	128.65	3.90		122.48		TP		
61		7.07	129.42	6.30		122.35		TP		
62		5.66	132.51	2.57		126.85		BM LOCLBS # 72 BLVD. RD.		
63		9.03	138.76	2.78		129.73		TP		
64		11.45	147.61	2.60		136.16		TP		
65		9.67	154.52	2.76		144.85		TP		
66		3.83	151.71	6.64		147.88		BM USGS DISK 61LA	45.074	
67		2.43	148.94	5.20		146.51		TP		
68		2.26	143.16	8.04		140.90		TP		
69		1.71	134.13	10.74		132.42		TP		
70		2.55	133.47	3.21		130.92		BM LOCLSS # 10 ELMWOOD		
71		2.70	129.94	6.23		127.24		TP		
72		1.52	124.52	6.94		123.00		TP		
73		6.24	125.03	5.73		118.79		TP		
74		5.26	128.26	2.03		123.00		TP		
75		3.80	121.56	10.50		117.76		TP		
76		11.10	126.85	5.81		115.75		TP		
77		9.78	134.33	2.30		124.55		TP		
78		9.73	142.69	1.37		132.96		TP		
79		11.93	152.44	2.18		140.51		TP		
80		1.91	149.76	4.59		147.85		TP		
81		7.18	151.05	5.89		143.87		TP		
82		1.93	144.54	8.44		142.61		TP		
83		1.61	135.12	11.03		133.51		TP		
84				10.24		124.88		(124.88) BM ROD 6A	38.064	
								AT LEDGEWOOD & GREENLODGE		
						0.00				
								0.00 =ADJ. FOR EACH TP		

Summary of Files Used and Option Settings

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Project Folder and Data Files

Project Name `DEDHAM-GPS
Project Folder C:\PROGRAM FILES\STARPLUS\STARNET\EXAMPLES
Data File List 1. `DEDHAM-gps.gps
 2. `DEDHAM-gps.dat

Project Option Settings

STAR*NET Run Mode : Adjust with Error Propagation
Type of Adjustment : 3D
Project Units : Meters; DMS
Coordinate System : Lambert NAD83; MA Mainlnd 2001
Geoid Height Model : GEOID03.GHT
Vertical Deflection Model : VDEFLECT-99.VDF
Longitude Sign Convention : Positive West
Input/Output Coordinate Order : North-East
Angle Data Station Order : From-At-To
Distance/Vertical Data Type : Hor Dist/DE
Convergence Limit; Max Iterations : 0.001000; 8
Default Coefficient of Refraction : 0.070000
Create Coordinate File : Yes
Create Geodetic Position File : Yes
Create Ground Scale Coordinate File : Yes
Create Dump File : No
GPS Vector Standard Error Factors : 15.5000 (Horiz), 15.8000 (Vert)
GPS Vector Centering (Meters) : 0.00500 (Horiz), 0.00500 (Vert)
GPS Vector Transformations : None

Instrument Standard Error Settings

Project Default Instrument
Distances (Constant) : 0.001000 Meters
Distances (PPM) : 2.000000
Angles : 2.000000 Seconds
Directions : 2.000000 Seconds
Azimuths & Bearings : 4.000000 Seconds
Zeniths : 4.000000 Seconds
Elevation Differences (Constant) : 0.001000 Meters
Elevation Differences (PPM) : 0.000000
Differential Levels : 0.000200 Meters / Km
Centering Error Instrument : 0.000524 Meters
Centering Error Target : 0.000524 Meters
Centering Error Vertical : 0.000000 Meters


```
[File: C:\Program Files\Starplus\StarNet\Examples\`DEDHAM-gps.dat]
# 962 DEDHAM GEODETIC CONTROL -GPS & LEVELING- 2007/2008
# LATITUDE & LONGITUDE coordinates for CORS sites held and # ORTHOMETRIC HEIGHTS HELD FROM ON TH
PH acu5 41-44-36.79696 70-53-13.02735 6.4814 ! ! *
PH CTPU 41-53-58.88883 71-53-20.88992 57.0995 ! ! *
PH zbw1 42-44-08.55936 71-28-49.51855 39.8801 ! ! *
#
#DISTANCES MEASURED DIRECTLY
#
D 10924A-CHS4A 207.193
D 10924A-CHS4A 207.193
D 4A-4B 376.681
D 4B-4A 376.681
D 1A-1B 167.087
D 1B-1A 167.087
D 5A-5B 337.717
D 5B-5A 337.717
D 2A-2B 262.870
D 2B-2A 262.872
D 3B-3C 68.726
D 3C-3B 68.726
D 6A-6B 134.035
D 6B-6A 134.035
D 6C-6B 176.846
D 6B-6C 176.846
#
#GROUND TRAVERSE TIE
M 6C-6B-6A 170-40-55 134.035 1.28
M 6A-6B-6C 189-18-59 176.846 5.924
#
# ORTHOMETRIC ELEVATIONS IN METERS
E DH11 37.213 !
E DH7 43.221 !
E DH8 11.619 !
E DH9 16.702 !
E DH10 38.442 !
E 61D 33.981 !
E 61E 37.225 !
E 61F 27.857 !
E 10924A 64.725 !
E 1A 29.383 !
E 1B 31.092 !
E 2A 16.442 !
E 2B 14.149 !
E 3A 34.125 !
E 3B 32.028 !
E 3C 30.004 !
E 4A 29.019 !
E 4B 39.542 !
E 5A 34.309 !
E 5B 35.095 !
E 6A 38.064 !
E 6B 36.783 !
E 6C 42.707 !
E CHS4A 58.913 !
```


Summary of Unadjusted Input Observations
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Number of Entered Stations (Meters) = 27
(Elevations Marked with (*) are Ellipsoid Heights)

Partially Fixed	Latitude N-StdErr	Longitude E-StdErr	Elev StdErr	Description
10924A	n/a FREE	n/a FREE	64.725000 FIXED	
1A	n/a FREE	n/a FREE	29.383000 FIXED	
1B	n/a FREE	n/a FREE	31.092000 FIXED	
2A	n/a FREE	n/a FREE	16.442000 FIXED	
2B	n/a FREE	n/a FREE	14.149000 FIXED	
3A	n/a FREE	n/a FREE	34.125000 FIXED	
3B	n/a FREE	n/a FREE	32.028000 FIXED	
3C	n/a FREE	n/a FREE	30.004000 FIXED	
4A	n/a FREE	n/a FREE	29.019000 FIXED	
4B	n/a FREE	n/a FREE	39.542000 FIXED	
5A	n/a FREE	n/a FREE	34.309000 FIXED	
5B	n/a FREE	n/a FREE	35.095000 FIXED	
61D	n/a FREE	n/a FREE	33.981000 FIXED	
61E	n/a FREE	n/a FREE	37.225000 FIXED	
61F	n/a FREE	n/a FREE	27.857000 FIXED	
6A	n/a FREE	n/a FREE	38.064000 FIXED	
6B	n/a FREE	n/a FREE	36.783000 FIXED	
6C	n/a FREE	n/a FREE	42.707000 FIXED	
CHS4A	n/a FREE	n/a FREE	58.913000 FIXED	
CTPU	41-53-58.88883000 FIXED	71-53-20.88992000 FIXED	57.099500* FREE	
DH10	n/a FREE	n/a FREE	38.442000 FIXED	
DH11	n/a FREE	n/a FREE	37.213000 FIXED	
DH7	n/a FREE	n/a FREE	43.221000 FIXED	
DH8	n/a FREE	n/a FREE	11.619000 FIXED	
DH9	n/a FREE	n/a FREE	16.702000 FIXED	
acu5	41-44-36.79696000 FIXED	70-53-13.02735000 FIXED	6.481400* FREE	
zbw1	42-44-08.55936000 FIXED	71-28-49.51855000 FIXED	39.880100* FREE	

Number of Measured Angle Observations (DMS) = 2

From	At	To	Angle	StdErr	t-T
6C	6B	6A	170-40-55.00	2.65	0.00
6A	6B	6C	189-18-59.00	2.65	-0.00

Number of Measured Distance Observations (Meters) = 18

From	To	Distance	StdErr	HI	HT	Comb Grid	Type
10924A	CHS4A	207.193000	0.001597	0.0000	0.0000	0.9999596	H
10924A	CHS4A	207.193000	0.001597	0.0000	0.0000	0.9999596	H
1A	1B	167.087000	0.001526	0.0000	0.0000	0.9999646	H
1B	1A	167.087000	0.001526	0.0000	0.0000	0.9999646	H
2A	2B	262.870000	0.001696	0.0000	0.0000	0.9999667	H
2B	2A	262.872000	0.001696	0.0000	0.0000	0.9999667	H
3B	3C	68.726000	0.001358	0.0000	0.0000	0.9999645	H
3C	3B	68.726000	0.001358	0.0000	0.0000	0.9999645	H
4A	4B	376.681000	0.001904	0.0000	0.0000	0.9999643	H
4B	4A	376.681000	0.001904	0.0000	0.0000	0.9999643	H
5A	5B	337.717000	0.001832	0.0000	0.0000	0.9999639	H
5B	5A	337.717000	0.001832	0.0000	0.0000	0.9999639	H
6A	6B	134.035000	0.001469	0.0000	0.0000	0.9999632	H
6B	6A	134.035000	0.001469	0.0000	0.0000	0.9999632	H
6B	6A	134.035000	0.001469	0.0000	0.0000	0.9999632	H
6B	6C	176.846000	0.001543	0.0000	0.0000	0.9999628	H
6B	6C	176.846000	0.001543	0.0000	0.0000	0.9999628	H
6C	6B	176.846000	0.001543	0.0000	0.0000	0.9999628	H

Number of Elevation Difference Observations (Meters) = 2

From	To	Elev Diff	StdErr	HI	HT
6B	6A	1.280000	0.001000	0.0000	0.0000
6B	6C	5.924000	0.001000	0.0000	0.0000

Number of GPS Vector Observations (Meters) = 174

From	To	DeltaX	DeltaY	DeltaZ	StdErrX	StdErrY	StdErrZ	CorrelXY	CorrelXZ	CorrelYZ
(V8 dedham-gpsbaselines-2008.asc 07.09.2007 07:41:16)										
10924A		5105.8694			0.0096			-0.4661		
2A		550.6990			0.0159			0.3310		
		-1312.6100			0.0149			-0.5604		
(V10 dedham-gpsbaselines-2008.asc 17.09.2007 13:35:36)										
10924A		1242.0300			0.0141			-0.3291		
4B		2421.8079			0.0244			0.2324		
		2045.1007			0.0244			-0.6218		
(V7 dedham-gpsbaselines-2008.asc 30.08.2007 08:59:16)										
10924A		1870.6060			0.0125			-0.6472		
5A		862.9963			0.0197			0.4028		
		190.2220			0.0249			-0.5638		
(V6 dedham-gpsbaselines-2008.asc 30.08.2007 08:14:06)										
10924A		1549.5943			0.0153			-0.6165		
5B		852.6497			0.0239			0.4215		
		294.6384			0.0205			-0.6754		
(V9 dedham-gpsbaselines-2008.asc 14.09.2007 13:34:56)										
10924A		3825.4513			0.0099			-0.1972		
6C		-232.5602			0.0161			0.1079		
		-1634.5348			0.0143			-0.5661		
(V11 dedham-gpsbaselines-2008.asc 22.10.2007 07:54:06)										
10924A		-905.0098			0.0086			-0.1418		
CHS1A		1333.6414			0.0138			0.1887		
		1679.0063			0.0111			-0.4292		
(V12 dedham-gpsbaselines-2008.asc 22.10.2007 09:55:46)										
10924A		166.3730			0.0079			-0.1596		
CHS4A		112.9908			0.0111			0.1714		
		50.1118			0.0114			-0.5224		
(V15 dedham-gpsbaselines-2008.asc 22.10.2007 12:00:16)										

10924A	4622.6325	0.0081	-0.1850
CHS9A	503.5423	0.0093	0.1215
	-1158.7552	0.0092	-0.3014
(V3 dedham-gpsbaselines-2008.asc 16.08.2007 10:01:56)			
10924A	-45792.2995	0.0181	-0.7292
CTPU	-42356.9645	0.0273	0.5883
	-28421.7901	0.0203	-0.6888
(V14 dedham-gpsbaselines-2008.asc 22.10.2007 11:52:16)			
10924A	-45792.3104	0.0106	-0.3433
CTPU	-42356.9417	0.0140	0.2348
	-28421.8232	0.0136	-0.5310
(V5 dedham-gpsbaselines-2008.asc 16.08.2007 12:00:26)			
10924A	-45792.3269	0.0146	-0.4526
CTPU	-42356.9592	0.0206	0.2159
	-28421.8125	0.0245	-0.4927
(V4 dedham-gpsbaselines-2008.asc 16.08.2007 10:09:31)			
10924A	769.1032	0.0098	-0.4697
DH10	580.0067	0.0124	0.3426
	292.5541	0.0119	-0.4576
(V1 dedham-gpsbaselines-2008.asc 15.08.2007 08:36:51)			
10924A	-1174.5717	0.0078	-0.2175
DH7	5490.7438	0.0108	0.1870
	6100.5700	0.0095	-0.3729
(V2 dedham-gpsbaselines-2008.asc 16.08.2007 10:01:56)			
10924A	36794.2382	0.0169	-0.7124
acu5	-26706.1491	0.0251	0.5712
	-41379.3550	0.0188	-0.6742
(V13 dedham-gpsbaselines-2008.asc 22.10.2007 11:52:16)			
10924A	36794.2309	0.0106	-0.3476
acu5	-26706.1424	0.0138	0.2359
	-41379.3823	0.0135	-0.5303
(V17 dedham-gpsbaselines-2008.asc 11.07.2007 10:01:16)			
1A	1266.5503	0.0099	-0.3842
3B	883.2467	0.0156	0.3836
	473.9631	0.0137	-0.4661
(V18 dedham-gpsbaselines-2008.asc 11.07.2007 10:01:16)			
1A	1309.6146	0.0098	-0.3899
3C	856.3476	0.0152	0.3984
	427.6162	0.0141	-0.4922
(V23 dedham-gpsbaselines-2008.asc 27.08.2007 12:00:06)			
1A	1309.6085	0.0078	-0.1667
3C	856.3523	0.0095	0.1539
	427.6100	0.0088	-0.2990
(V16 dedham-gpsbaselines-2008.asc 10.07.2007 11:47:46)			
1A	-879.1337	0.0101	-0.4836
4A	1388.6282	0.0180	0.3267
	1758.2809	0.0165	-0.5694
(V29 dedham-gpsbaselines-2008.asc 04.01.2008 14:28:06)			
1A	-584.6898	0.0085	-0.1690
5A	-339.2906	0.0126	0.0359
	-138.5264	0.0131	-0.4393
(V21 dedham-gpsbaselines-2008.asc 22.08.2007 07:54:06)			
1A	-543.0231	0.0128	-0.2634
61D	-172.4002	0.0235	0.5636
	20.0817	0.0182	-0.2778
(V25 dedham-gpsbaselines-2008.asc 17.09.2007 07:45:06)			
1A	462.6617	0.0142	-0.7037
61E	98.7772	0.0231	0.5826
	-49.8365	0.0193	-0.7279
(V27 dedham-gpsbaselines-2008.asc 25.10.2007 09:50:16)			
1A	-251.9949	0.0080	-0.1614
CHS12A	893.5539	0.0114	0.1759
	1019.2090	0.0119	-0.5533
(V26 dedham-gpsbaselines-2008.asc 25.10.2007 08:50:16)			
1A	-2288.8962	0.0086	-0.1133
CHS4A	-1089.3246	0.0118	0.2052

	-278.6306	0.0104	-0.3650
(V28 dedham-gpsbaselines-2008.asc 25.10.2007 13:29:46)			
1A	2167.3721	0.0094	-0.2901
CHS9A	-698.7907	0.0135	0.2643
	-1487.4646	0.0119	-0.5603
(V22 dedham-gpsbaselines-2008.asc 27.08.2007 11:59:56)			
1A	2186.4282	0.0073	-0.0532
DH11	-692.0525	0.0080	0.0665
	-1487.3608	0.0079	-0.1478
(V40 dedham-gpsbaselines-2008.asc 04.01.2008 08:30:46)			
1B	-162.5882	0.0079	-0.1434
1A	-24.1948	0.0101	0.1167
	30.0226	0.0090	-0.3563
(V33 dedham-gpsbaselines-2008.asc 11.07.2007 12:41:16)			
1B	-162.5785	0.0077	-0.0989
1A	-24.1952	0.0091	0.1021
	30.0230	0.0087	-0.1761
(V31 dedham-gpsbaselines-2008.asc 11.07.2007 11:49:26)			
1B	1147.0275	0.0084	-0.2839
3C	832.1522	0.0103	0.1906
	457.6325	0.0120	-0.3327
(V30 dedham-gpsbaselines-2008.asc 10.07.2007 10:16:36)			
1B	-1041.7177	0.0102	-0.4374
4A	1364.4314	0.0160	0.4360
	1788.3092	0.0179	-0.5698
(V36 dedham-gpsbaselines-2008.asc 17.07.2007 09:18:56)			
1B	-1041.7278	0.0089	-0.1838
4A	1364.4396	0.0192	-0.0041
	1788.2991	0.0132	-0.5743
(V37 dedham-gpsbaselines-2008.asc 24.07.2007 09:34:26)			
1B	-1375.8274	0.0114	-0.4966
4B	1195.2838	0.0188	0.5805
	1746.3778	0.0183	-0.6187
(V32 dedham-gpsbaselines-2008.asc 11.07.2007 11:49:26)			
1B	-747.2691	0.0108	-0.5253
5A	-363.4903	0.0195	0.3316
	-108.4965	0.0201	-0.5883
(V41 dedham-gpsbaselines-2008.asc 04.01.2008 10:16:46)			
1B	-1068.2640	0.0104	-0.4786
5B	-373.8406	0.0141	0.2970
	-4.0862	0.0116	-0.4495
(V42 dedham-gpsbaselines-2008.asc 08.01.2008 10:20:16)			
1B	-705.6104	0.0106	-0.3234
61D	-196.6145	0.0158	0.2246
	50.0904	0.0137	-0.5331
(V35 dedham-gpsbaselines-2008.asc 13.07.2007 13:03:06)			
1B	1324.8425	0.0127	-0.3305
6A	-1237.6158	0.0184	0.2499
	-1750.9320	0.0171	-0.4224
(V34 dedham-gpsbaselines-2008.asc 13.07.2007 11:44:46)			
1B	1284.6039	0.0104	-0.4919
6B	-1332.1229	0.0168	0.2891
	-1837.0370	0.0192	-0.5395
(V44 dedham-gpsbaselines-2008.asc 12.07.2007 07:58:16)			
2A	-2488.0218	0.0175	-0.7919
1B	675.8184	0.0195	0.8116
	1611.3058	0.0256	-0.8513
(V47 dedham-gpsbaselines-2008.asc 23.07.2007 13:17:06)			
2A	-118.6436	0.0104	-0.2263
2B	-180.6867	0.0149	0.1668
	-149.6096	0.0240	-0.4512
(V54 dedham-gpsbaselines-2008.asc 11.01.2008 12:49:16)			
2A	-1340.9925	0.0093	-0.3978
3C	1507.9355	0.0163	0.2647
	2068.9667	0.0113	-0.3754
(V43 dedham-gpsbaselines-2008.asc 12.07.2007 07:58:16)			

2A	-1341.0012	0.0195	-0.8118
3C	1507.9647	0.0215	0.8279
	2068.9412	0.0285	-0.8661
(V48 dedham-gpsbaselines-2008.asc 23.07.2007 13:19:16)			
2A	-3235.2835	0.0095	-0.1105
5A	312.3173	0.0149	0.1372
	1502.8418	0.0176	-0.5030
(V50 dedham-gpsbaselines-2008.asc 27.08.2007 10:00:06)			
2A	-2187.9305	0.0093	-0.1825
61E	750.3663	0.0114	0.2575
	1591.5083	0.0132	-0.3045
(V46 dedham-gpsbaselines-2008.asc 16.07.2007 08:02:46)			
2A	-1280.4100	0.0184	-0.6432
6C	-783.3138	0.0200	0.6198
	-321.9077	0.0223	-0.7405
(V52 dedham-gpsbaselines-2008.asc 26.10.2007 07:46:16)			
2A	-2902.5881	0.0089	-0.2468
CHS12A	1545.1512	0.0108	0.1755
	2660.5701	0.0115	-0.3518
(V53 dedham-gpsbaselines-2008.asc 26.10.2007 08:56:16)			
2A	-483.2351	0.0168	-0.6051
CHS9A	-47.1872	0.0169	0.8189
	153.8547	0.0264	-0.6961
(V49 dedham-gpsbaselines-2008.asc 27.08.2007 10:00:06)			
2A	-464.1644	0.0084	-0.1439
DH11	-40.4629	0.0093	0.2110
	154.0009	0.0107	-0.1830
(V55 dedham-gpsbaselines-2008.asc 12.12.2007 09:11:06)			
2B	118.6732	0.0133	-0.5398
2A	180.7211	0.0205	0.5236
	149.6028	0.0249	-0.7776
(V57 dedham-gpsbaselines-2008.asc 11.07.2007 13:43:26)			
3A	-1210.1387	0.0104	0.0401
1A	-1049.1057	0.0251	0.2557
	-669.9172	0.0143	-0.2221
(V65 dedham-gpsbaselines-2008.asc 11.01.2008 14:30:16)			
3A	99.4699	0.0104	-0.2121
3C	-192.7734	0.0177	0.0354
	-242.3003	0.0212	-0.3489
(V56 dedham-gpsbaselines-2008.asc 10.07.2007 13:38:16)			
3A	-2089.2913	0.0097	-0.0609
4A	339.4956	0.0206	0.1717
	1088.3596	0.0129	-0.4784
(V61 dedham-gpsbaselines-2008.asc 31.08.2007 11:45:36)			
3A	-747.4787	0.0139	0.1002
61E	-950.3538	0.0275	0.5932
	-719.7308	0.0447	0.4305
(V64 dedham-gpsbaselines-2008.asc 26.10.2007 11:51:26)			
3A	-1462.1416	0.0095	0.0112
CHS12A	-155.5639	0.0199	0.0069
	349.2882	0.0257	-0.7705
(V63 dedham-gpsbaselines-2008.asc 26.10.2007 09:47:46)			
3A	957.2071	0.0113	0.1616
CHS9A	-1747.9493	0.0264	0.1433
	-2157.3756	0.0215	-0.7195
(V62 dedham-gpsbaselines-2008.asc 04.09.2007 07:52:06)			
3A	-4839.9848	0.0134	-0.5730
DH7	3239.3437	0.0300	0.5388
	5101.8879	0.0259	-0.7750
(V66 dedham-gpsbaselines-2008.asc 16.07.2007 12:46:46)			
3B	-1266.5669	0.0100	-0.2394
1A	-883.2415	0.0124	0.3640
	-473.9767	0.0149	-0.2012
(V68 dedham-gpsbaselines-2008.asc 20.12.2007 08:49:56)			
3B	-56.3976	0.0106	-0.2828
3A	165.8703	0.0185	0.3879

	195.9771	0.0188	-0.7290
(V69 dedham-gpsbaselines-2008.asc 20.12.2007 10:10:16)			
3B	43.0708	0.0086	-0.2972
3C	-26.8984	0.0140	0.1801
	-46.3524	0.0098	-0.4516
(V67 dedham-gpsbaselines-2008.asc 16.07.2007 13:49:36)			
3B	180.6604	0.0112	-0.4080
6B	-2191.1611	0.0154	0.2664
	-2341.0384	0.0157	-0.4031
(V71 dedham-gpsbaselines-2008.asc 12.07.2007 07:57:16)			
3C	-1147.0193	0.0085	-0.2094
1B	-832.1477	0.0094	0.1639
	-457.6348	0.0094	-0.3130
(V76 dedham-gpsbaselines-2008.asc 20.12.2007 12:51:46)			
3C	-99.4677	0.0137	-0.4675
3A	192.7822	0.0232	0.2611
	242.2872	0.0214	-0.6055
(V70 dedham-gpsbaselines-2008.asc 11.07.2007 09:50:46)			
3C	-43.0639	0.0090	-0.3306
3B	26.8973	0.0131	0.3334
	46.3509	0.0123	-0.4420
(V72 dedham-gpsbaselines-2008.asc 24.07.2007 11:50:46)			
3C	-2522.8466	0.0195	-0.6989
4B	363.1368	0.0199	0.7186
	1288.7249	0.0403	-0.6372
(V73 dedham-gpsbaselines-2008.asc 24.07.2007 12:14:26)			
3C	177.8298	0.0146	-0.5197
6A	-2069.7782	0.0193	0.4504
	-2208.5425	0.0189	-0.4344
(V74 dedham-gpsbaselines-2008.asc 23.08.2007 12:00:06)			
3C	-2995.7746	0.0084	-0.2098
DH10	-1478.6604	0.0119	0.2329
	-463.7970	0.0107	-0.4202
(V75 dedham-gpsbaselines-2008.asc 27.08.2007 12:00:06)			
3C	876.8199	0.0078	-0.1603
DH11	-1548.4054	0.0092	0.1756
	-1914.9702	0.0091	-0.3004
(V80 dedham-gpsbaselines-2008.asc 24.07.2007 09:33:46)			
4A	1041.7202	0.0092	-0.3654
1B	-1364.4333	0.0132	0.4237
	-1788.2976	0.0131	-0.5203
(V79 dedham-gpsbaselines-2008.asc 16.07.2007 11:47:16)			
4A	2145.6811	0.0098	-0.4541
3B	-505.3956	0.0142	0.2665
	-1284.2958	0.0186	-0.4985
(V82 dedham-gpsbaselines-2008.asc 24.07.2007 13:18:16)			
4A	2145.6826	0.0101	-0.3528
3B	-505.4025	0.0130	0.2349
	-1284.3089	0.0137	-0.3690
(V81 dedham-gpsbaselines-2008.asc 24.07.2007 09:34:26)			
4A	-334.1057	0.0111	-0.4772
4B	-169.1521	0.0179	0.5548
	-41.9170	0.0166	-0.6059
(V86 dedham-gpsbaselines-2008.asc 03.01.2008 08:51:46)			
4A	-334.0985	0.0109	-0.3497
4B	-169.1785	0.0145	0.3019
	-41.8883	0.0143	-0.5603
(V87 dedham-gpsbaselines-2008.asc 03.01.2008 14:30:16)			
4A	294.4504	0.0083	-0.1650
5A	-1727.9288	0.0107	-0.0343
	-1896.8034	0.0114	-0.3179
(V83 dedham-gpsbaselines-2008.asc 23.08.2007 10:00:56)			
4A	-26.5458	0.0158	-0.6101
5B	-1738.2683	0.0176	0.4600
	-1792.3929	0.0182	-0.5235
(V78 dedham-gpsbaselines-2008.asc 16.07.2007 09:59:46)			

4A	2326.3396	0.0141	-0.6490
6B	-2696.5510	0.0205	0.7189
	-3625.3391	0.0244	-0.7377
(V84 dedham-gpsbaselines-2008.asc 06.09.2007 07:39:06)			
4A	-47368.4383	0.0105	-0.4409
CTPU	-44947.9255	0.0154	0.3578
	-30508.8084	0.0141	-0.5529
(V85 dedham-gpsbaselines-2008.asc 06.09.2007 07:39:06)			
4A	-35033.1452	0.0109	-0.4533
zbw1	25004.5623	0.0160	0.3709
	38145.7228	0.0149	-0.5620
(V88 dedham-gpsbaselines-2008.asc 22.08.2007 09:59:41)			
4B	1375.8115	0.0140	-0.5946
1B	-1195.2856	0.0132	0.6689
	-1746.3559	0.0230	-0.5772
(V89 dedham-gpsbaselines-2008.asc 03.01.2008 10:21:46)			
4B	307.5684	0.0143	-0.6429
5B	-1569.1222	0.0195	0.5469
	-1750.4586	0.0186	-0.6003
(V94 dedham-gpsbaselines-2008.asc 03.01.2008 12:51:16)			
5A	-628.5487	0.0110	-0.1384
4B	1558.7634	0.0203	0.4303
	1854.9016	0.0195	-0.0899
(V93 dedham-gpsbaselines-2008.asc 17.09.2007 08:45:16)			
5A	1047.3520	0.0110	-0.0638
61E	438.0798	0.0147	0.4365
	88.6757	0.0194	-0.1079
(V92 dedham-gpsbaselines-2008.asc 27.08.2007 07:57:41)			
5A	2771.1098	0.0089	-0.3511
DH11	-352.7500	0.0125	0.3378
	-1348.8412	0.0130	-0.4834
(V95 dedham-gpsbaselines-2008.asc 23.07.2007 11:47:16)			
5B	320.9953	0.0179	-0.7610
5A	10.3375	0.0250	0.6726
	-104.4426	0.0389	-0.6859
(V101 dedham-gpsbaselines-2008.asc 08.01.2008 14:27:56)			
61D	-1912.2365	0.0109	0.2205
10924A	-1029.8964	0.0218	-0.3693
	-348.8335	0.0219	-0.7093
(V98 dedham-gpsbaselines-2008.asc 22.08.2007 07:45:06)			
61D	-336.1171	0.0112	-0.2084
4A	1561.0352	0.0200	0.4799
	1738.1868	0.0158	-0.2173
(V99 dedham-gpsbaselines-2008.asc 24.08.2007 08:11:46)			
61D	-41.6621	0.0140	-0.1320
5A	-166.8756	0.0276	0.5573
	-158.6115	0.0283	-0.2370
(V105 dedham-gpsbaselines-2008.asc 29.08.2007 12:01:36)			
61E	-2917.9313	0.0078	-0.1629
10924A	-1301.0904	0.0100	0.1628
	-278.8867	0.0100	-0.3590
(V104 dedham-gpsbaselines-2008.asc 29.08.2007 12:01:36)			
61E	2187.9306	0.0081	-0.1626
2A	-750.3585	0.0108	0.1757
	-1591.5156	0.0112	-0.4244
(V102 dedham-gpsbaselines-2008.asc 29.08.2007 10:00:06)			
61E	256.3947	0.0437	-0.5090
61F	89.2303	0.0290	0.9294
	-12.1344	0.0476	-0.3865
(V103 dedham-gpsbaselines-2008.asc 29.08.2007 12:01:36)			
61E	-48710.2433	0.0111	-0.3226
CTPU	-43658.0370	0.0195	0.3393
	-28700.7032	0.0205	-0.6286
(V117 dedham-gpsbaselines-2008.asc 12.12.2007 10:14:46)			
6A	1163.1891	0.0140	0.0809
2A	561.8150	0.0363	0.0882

	139.6184	0.0219	-0.7581
(V111 dedham-gpsbaselines-2008.asc 24.07.2007 13:16:16)			
6A	-220.8983	0.0106	-0.3735
3B	2096.6605	0.0139	0.2458
	2254.8932	0.0145	-0.3796
(V110 dedham-gpsbaselines-2008.asc 13.07.2007 13:19:16)			
6A	-177.8178	0.0094	-0.2606
3C	2069.7761	0.0128	0.2568
	2208.5566	0.0114	-0.2111
(V112 dedham-gpsbaselines-2008.asc 24.07.2007 13:18:16)			
6A	-2366.5769	0.0099	-0.2864
4A	2602.0569	0.0127	0.2639
	3539.2070	0.0148	-0.4270
(V107 dedham-gpsbaselines-2008.asc 12.07.2007 11:48:06)			
6A	-2072.1132	0.0127	-0.4011
5A	874.1584	0.0241	0.5043
	1642.4245	0.0322	-0.2273
(V116 dedham-gpsbaselines-2008.asc 13.09.2007 08:56:06)			
6A	-2393.1567	0.0180	-0.6282
5B	863.8094	0.0224	0.4429
	1746.7975	0.0166	-0.5676
(V118 dedham-gpsbaselines-2008.asc 10.01.2008 08:31:46)			
6A	-40.2399	0.0098	-0.3255
6B	-94.4965	0.0217	0.2530
	-86.1331	0.0142	-0.6807
(V115 dedham-gpsbaselines-2008.asc 07.09.2007 09:38:56)			
6A	-3173.5977	0.0125	-0.2399
DH10	591.0820	0.0242	0.2706
	1744.7510	0.0169	-0.5649
(V114 dedham-gpsbaselines-2008.asc 27.08.2007 07:50:06)			
6A	698.9918	0.0088	-0.3262
DH11	521.3727	0.0124	0.2984
	293.5739	0.0114	-0.4811
(V113 dedham-gpsbaselines-2008.asc 24.08.2007 12:06:06)			
6A	-5117.2699	0.0096	-0.2535
DH7	5501.8447	0.0160	0.3415
	7552.7737	0.0134	-0.4457
(V120 dedham-gpsbaselines-2008.asc 12.12.2007 12:58:46)			
6B	1203.4439	0.0137	-0.5530
2A	656.3196	0.0182	0.2307
	225.7098	0.0153	-0.5065
(V121 dedham-gpsbaselines-2008.asc 11.01.2008 08:36:46)			
6B	1084.7639	0.0160	-0.3635
2B	475.6168	0.0271	0.2205
	76.1547	0.0339	-0.5810
(V124 dedham-gpsbaselines-2008.asc 29.08.2007 08:01:56)			
6C	1280.4243	0.0104	-0.4549
2A	783.2905	0.0156	0.3688
	321.9142	0.0142	-0.5858
(V129 dedham-gpsbaselines-2008.asc 10.01.2008 14:25:56)			
6C	1161.7831	0.0108	-0.3500
2B	602.5962	0.0154	0.0982
	172.3522	0.0192	-0.4795
(V127 dedham-gpsbaselines-2008.asc 10.01.2008 10:22:46)			
6C	117.2598	0.0113	-0.5224
6A	221.4615	0.0151	0.3183
	182.3408	0.0128	-0.5394
(V128 dedham-gpsbaselines-2008.asc 10.01.2008 12:51:56)			
6C	77.0018	0.0163	-0.7330
5B	126.9909	0.0300	0.4076
	96.2180	0.0171	-0.5513
(V123 dedham-gpsbaselines-2008.asc 29.08.2007 08:01:56)			
6C	-49617.7577	0.0194	-0.6512
CTPU	-42124.3763	0.0339	0.5250
	-26787.2803	0.0300	-0.7297
(V125 dedham-gpsbaselines-2008.asc 29.08.2007 08:01:56)			

6C	1017.8308	0.0108	-0.4732
DH9	-1017.7658	0.0164	0.3846
	-1462.8479	0.0149	-0.6016
(V122 dedham-gpsbaselines-2008.asc 29.08.2007 08:01:56)			
6C	32968.7724	0.0198	-0.6639
acu5	-26473.5420	0.0343	0.5164
	-39744.8712	0.0320	-0.7419
(V130 dedham-gpsbaselines-2008.asc 24.10.2007 09:57:16)			
CHS12A	2438.4109	0.0076	-0.1306
DH11	-1585.5907	0.0099	0.1411
	-2506.5784	0.0102	-0.4403
(V134 dedham-gpsbaselines-2008.asc 15.08.2007 08:36:56)			
CTPU	45792.3010	0.0125	-0.5285
10924A	42356.9334	0.0254	0.5054
	28421.8222	0.0202	-0.6639
(V141 dedham-gpsbaselines-2008.asc 07.09.2007 07:38:46)			
CTPU	45792.3157	0.0110	-0.5406
10924A	42356.9132	0.0171	0.3629
	28421.8471	0.0176	-0.5295
(V153 dedham-gpsbaselines-2008.asc 25.10.2007 07:31:46)			
CTPU	48247.5851	0.0146	-0.3170
1A	43559.2707	0.0245	0.4918
	28750.5489	0.0219	-0.5533
(V154 dedham-gpsbaselines-2008.asc 25.10.2007 11:34:46)			
CTPU	48247.5735	0.0148	-0.3448
1A	43559.2772	0.0245	0.3233
	28750.5369	0.0223	-0.6867
(V140 dedham-gpsbaselines-2008.asc 05.09.2007 08:01:46)			
CTPU	48247.5747	0.0158	-0.6503
1A	43559.2711	0.0264	0.5293
	28750.5394	0.0220	-0.6968
(V131 dedham-gpsbaselines-2008.asc 11.07.2007 11:49:31)			
CTPU	48410.1734	0.0114	-0.4160
1B	43583.4735	0.0166	0.2846
	28720.5318	0.0179	-0.4564
(V133 dedham-gpsbaselines-2008.asc 16.07.2007 09:02:46)			
CTPU	47368.4347	0.0120	-0.4185
4A	44947.9029	0.0231	0.3801
	30508.8198	0.0170	-0.5479
(V139 dedham-gpsbaselines-2008.asc 28.08.2007 10:03:26)			
CTPU	48710.2427	0.0189	-0.2068
61E	43658.0637	0.0244	0.5356
	28700.7039	0.0377	-0.2308
(V142 dedham-gpsbaselines-2008.asc 07.09.2007 08:49:46)			
CTPU	49735.0147	0.0156	-0.4755
6A	42345.8447	0.0235	0.3884
	26969.6079	0.0198	-0.4687
(V132 dedham-gpsbaselines-2008.asc 13.07.2007 08:26:06)			
CTPU	49617.7678	0.0247	-0.4797
6C	42124.3699	0.0309	0.3450
	26787.2767	0.0308	-0.6622
(V152 dedham-gpsbaselines-2008.asc 24.10.2007 07:44:16)			
CTPU	47995.6015	0.0120	-0.3732
CHS12A	44452.8259	0.0175	0.3766
	29769.7416	0.0175	-0.5120
(V150 dedham-gpsbaselines-2008.asc 23.10.2007 12:08:01)			
CTPU	47995.5813	0.0134	-0.5119
CHS12A	44452.8081	0.0171	0.3927
	29769.7622	0.0163	-0.6364
(V149 dedham-gpsbaselines-2008.asc 23.10.2007 09:57:46)			
CTPU	44887.3112	0.0272	-0.4793
CHS1A	43690.5709	0.0667	0.4992
	30100.8291	0.0679	-0.8805
(V147 dedham-gpsbaselines-2008.asc 23.10.2007 07:24:46)			
CTPU	45958.6906	0.0139	-0.4071
CHS4A	42469.9651	0.0225	0.3867

	28471.8985	0.0222	-0.5575
(V145 dedham-gpsbaselines-2008.asc 22.10.2007 09:55:46)			
CTPU	45958.6951	0.0104	-0.3094
CHS4A	42469.9350	0.0194	0.3235
	28471.9283	0.0202	-0.7531
(V146 dedham-gpsbaselines-2008.asc 22.10.2007 12:00:16)			
CTPU	50414.9516	0.0168	-0.4864
CHS9A	42860.4861	0.0238	0.3436
	27263.0624	0.0233	-0.6633
(V138 dedham-gpsbaselines-2008.asc 23.08.2007 12:00:06)			
CTPU	46561.4268	0.0146	-0.4928
DH10	42936.9131	0.0263	0.4728
	28714.4020	0.0210	-0.6360
(V135 dedham-gpsbaselines-2008.asc 15.08.2007 11:53:26)			
CTPU	44617.7294	0.0101	-0.3008
DH7	47847.6930	0.0137	0.2258
	34522.3768	0.0134	-0.4508
(V136 dedham-gpsbaselines-2008.asc 16.08.2007 07:44:56)			
CTPU	51531.7166	0.0138	-0.4778
DH8	46567.1203	0.0221	0.5083
	30688.6544	0.0205	-0.5363
(V148 dedham-gpsbaselines-2008.asc 23.10.2007 07:39:46)			
CTPU	50635.5841	0.0122	-0.4017
DH9	41106.6249	0.0182	0.4021
	25324.4142	0.0183	-0.5545
(V151 dedham-gpsbaselines-2008.asc 23.10.2007 12:20:16)			
CTPU	50635.5764	0.0213	-0.6299
DH9	41106.5838	0.0288	0.4961
	25324.4224	0.0267	-0.7471
(V159 dedham-gpsbaselines-2008.asc 30.08.2007 13:38:16)			
DH10	4336.7515	0.0097	-0.3018
2A	-29.2723	0.0165	0.3265
	-1605.1704	0.0176	-0.7085
(V160 dedham-gpsbaselines-2008.asc 07.09.2007 11:42:16)			
DH10	4336.7584	0.0126	-0.5192
2A	-29.2728	0.0202	0.5370
	-1605.1814	0.0163	-0.6163
(V158 dedham-gpsbaselines-2008.asc 30.08.2007 09:54:26)			
DH10	1101.4736	0.0109	-0.0939
5A	283.0052	0.0146	0.4256
	-102.3442	0.0191	-0.1329
(V157 dedham-gpsbaselines-2008.asc 16.08.2007 10:12:06)			
DH10	36025.1532	0.0262	-0.7786
acu5	-27286.1697	0.0386	0.5773
	-41671.8941	0.0368	-0.6560
(V162 dedham-gpsbaselines-2008.asc 04.09.2007 12:09:56)			
DH11	-2186.4102	0.0080	-0.1552
1A	692.0481	0.0100	0.1762
	1487.3622	0.0099	-0.3751
(V163 dedham-gpsbaselines-2008.asc 05.09.2007 08:01:46)			
DH11	-2186.4278	0.0095	-0.4316
1A	692.0632	0.0134	0.3479
	1487.3505	0.0120	-0.5340
(V161 dedham-gpsbaselines-2008.asc 27.08.2007 09:55:11)			
DH11	-1723.7663	0.0080	-0.1111
61E	790.8260	0.0086	0.1656
	1437.5120	0.0098	-0.1589
(V164 dedham-gpsbaselines-2008.asc 06.09.2007 07:36:16)			
DH11	-50434.0035	0.0114	-0.5114
CTPU	-42867.2266	0.0170	0.4219
	-27263.1842	0.0158	-0.6049
(V165 dedham-gpsbaselines-2008.asc 06.09.2007 07:36:16)			
DH11	-38098.7103	0.0112	-0.5030
zbow1	27085.2614	0.0164	0.4174
	41391.3455	0.0160	-0.5965
(V169 dedham-gpsbaselines-2008.asc 04.09.2007 09:58:56)			

DH7	3629.8538	0.0095	-0.2104
1A	-4288.4391	0.0137	0.2123
	-5771.8210	0.0125	-0.4015
(V167 dedham-gpsbaselines-2008.asc 04.09.2007 07:55:56)			
DH7	-44617.7482	0.0123	-0.5375
CTPU	-47847.6743	0.0260	0.4919
	-34522.4117	0.0223	-0.7393
(V166 dedham-gpsbaselines-2008.asc 15.08.2007 10:03:51)			
DH7	1943.6800	0.0093	-0.3853
DH10	-4910.7368	0.0114	0.2377
	-5808.0181	0.0147	-0.3600
(V168 dedham-gpsbaselines-2008.asc 04.09.2007 07:56:06)			
DH7	37968.7867	0.0108	-0.5226
acu5	-32196.8455	0.0221	0.4759
	-47479.9982	0.0195	-0.7475
(V170 dedham-gpsbaselines-2008.asc 06.09.2007 10:00:06)			
DH9	-1925.3417	0.0088	-0.1942
61E	2551.4298	0.0112	0.1598
	3376.2691	0.0110	-0.3553
(V185 dedham-gpsbaselines-2008.asc 22.10.2007 09:52:46)			
acu5	-36794.2243	0.0153	-0.4461
10924A	26706.1259	0.0322	0.4426
	41379.3857	0.0326	-0.8267
(V173 dedham-gpsbaselines-2008.asc 15.08.2007 08:36:56)			
acu5	-36794.2425	0.0122	-0.5197
10924A	26706.1658	0.0244	0.4959
	41379.3625	0.0194	-0.6580
(V193 dedham-gpsbaselines-2008.asc 25.10.2007 07:31:46)			
acu5	-34338.9669	0.0150	-0.3351
1A	27908.4671	0.0254	0.5042
	41708.1196	0.0225	-0.5626
(V171 dedham-gpsbaselines-2008.asc 11.07.2007 11:49:26)			
acu5	-34176.3652	0.0093	-0.3092
1B	27932.6273	0.0123	0.2138
	41678.1333	0.0130	-0.3761
(V179 dedham-gpsbaselines-2008.asc 28.08.2007 10:03:26)			
acu5	-33876.2928	0.0177	-0.2033
61E	28007.2220	0.0228	0.5282
	41658.2900	0.0350	-0.2285
(V180 dedham-gpsbaselines-2008.asc 29.08.2007 12:01:36)			
acu5	-33876.2863	0.0115	-0.3479
61E	28007.1947	0.0204	0.3562
	41658.2921	0.0214	-0.6379
(V182 dedham-gpsbaselines-2008.asc 07.09.2007 09:04:16)			
acu5	-32851.5322	0.0161	-0.4810
6A	26695.0656	0.0244	0.3935
	39927.1523	0.0205	-0.4725
(V191 dedham-gpsbaselines-2008.asc 23.10.2007 12:08:01)			
acu5	-34590.9564	0.0116	-0.4567
CHS12A	28801.9983	0.0144	0.3490
	42727.3311	0.0138	-0.5800
(V192 dedham-gpsbaselines-2008.asc 24.10.2007 07:44:16)			
acu5	-34590.9492	0.0106	-0.3310
CHS12A	28802.0295	0.0149	0.3339
	42727.2878	0.0148	-0.4726
(V184 dedham-gpsbaselines-2008.asc 22.10.2007 07:54:01)			
acu5	-37699.3942	0.0178	-0.2169
CHS1A	28039.7321	0.0332	0.4689
	43058.3890	0.0249	-0.5891
(V186 dedham-gpsbaselines-2008.asc 22.10.2007 09:55:46)			
acu5	-36627.8474	0.0105	-0.3122
CHS4A	26819.1345	0.0196	0.3264
	41429.4920	0.0205	-0.7555
(V188 dedham-gpsbaselines-2008.asc 23.10.2007 07:24:46)			
acu5	-36627.8486	0.0123	-0.3785
CHS4A	26819.1467	0.0192	0.3593

	41429.4696	0.0189	-0.5343
(V187 dedham-gpsbaselines-2008.asc 22.10.2007 12:00:16)			
acu5	-32171.5901	0.0165	-0.4839
CHS9A	27209.6873	0.0233	0.3420
	40220.6207	0.0229	-0.6607
(V195 dedham-gpsbaselines-2008.asc 26.10.2007 08:56:16)			
acu5	-32171.6058	0.0226	-0.1105
CHS9A	27209.7421	0.0372	0.5964
	40220.5722	0.0393	-0.5802
(V178 dedham-gpsbaselines-2008.asc 23.08.2007 12:00:06)			
acu5	-36025.1337	0.0145	-0.4913
DH10	27286.1515	0.0260	0.4711
	41671.9272	0.0208	-0.6345
(V181 dedham-gpsbaselines-2008.asc 04.09.2007 12:11:16)			
acu5	-32152.5547	0.0112	-0.3268
DH11	27216.4748	0.0191	0.3528
	40220.6771	0.0194	-0.6845
(V174 dedham-gpsbaselines-2008.asc 15.08.2007 11:53:26)			
acu5	-37968.8120	0.0096	-0.2678
DH7	32196.8814	0.0128	0.2074
	47479.9445	0.0125	-0.4245
(V176 dedham-gpsbaselines-2008.asc 16.08.2007 07:44:56)			
acu5	-31054.8296	0.0138	-0.4793
DH8	30916.3272	0.0223	0.5100
	43646.1973	0.0206	-0.5372
(V190 dedham-gpsbaselines-2008.asc 23.10.2007 12:00:46)			
acu5	-31950.9640	0.0173	-0.5455
DH9	25455.7782	0.0235	0.4068
	38281.9872	0.0218	-0.6879
(V204 dedham-gpsbaselines-2008.asc 22.10.2007 07:53:16)			
zbw1	33457.0271	0.0172	-0.4384
10924A	-27595.5759	0.0316	0.4406
	-40232.6945	0.0268	-0.5683
(V203 dedham-gpsbaselines-2008.asc 07.09.2007 13:39:36)			
zbw1	35912.3059	0.0133	-0.2640
1A	-26393.2465	0.0257	0.2630
	-39903.9469	0.0260	-0.7479
(V197 dedham-gpsbaselines-2008.asc 11.07.2007 11:49:26)			
zbw1	36074.9030	0.0102	-0.3660
1B	-26369.0637	0.0142	0.2528
	-39933.9632	0.0152	-0.4217
(V199 dedham-gpsbaselines-2008.asc 16.07.2007 09:02:46)			
zbw1	35033.1798	0.0136	-0.4701
4A	-25004.7035	0.0259	0.4365
	-38145.5911	0.0190	-0.5800
(V202 dedham-gpsbaselines-2008.asc 07.09.2007 09:00:06)			
zbw1	37399.7349	0.0160	-0.4826
6A	-27606.6625	0.0242	0.3933
	-41684.8872	0.0204	-0.4724
(V198 dedham-gpsbaselines-2008.asc 13.07.2007 08:26:06)			
zbw1	37282.4816	0.0245	-0.4928
6C	-27828.1350	0.0298	0.3582
	-41867.2317	0.0304	-0.6584
(V209 dedham-gpsbaselines-2008.asc 24.10.2007 07:44:16)			
zbw1	35660.3161	0.0109	-0.3393
CHS12A	-25499.6856	0.0154	0.3426
	-38884.7609	0.0153	-0.4818
(V206 dedham-gpsbaselines-2008.asc 22.10.2007 09:55:46)			
zbw1	33623.4134	0.0115	-0.3411
CHS4A	-27482.5837	0.0225	0.3553
	-40182.5620	0.0235	-0.7821
(V207 dedham-gpsbaselines-2008.asc 22.10.2007 12:00:16)			
zbw1	38079.6724	0.0174	-0.4926
CHS9A	-27092.0255	0.0246	0.3499
	-41391.4235	0.0242	-0.6693
(V201 dedham-gpsbaselines-2008.asc 05.09.2007 12:07:06)			

zbw1	38098.7300	0.0099	-0.3888
DH11	-27085.3177	0.0147	0.3290
	-41391.2956	0.0137	-0.5843
(V200 dedham-gpsbaselines-2008.asc 04.09.2007 07:56:06)			
zbw1	32282.4804	0.0128	-0.5827
DH7	-22104.8713	0.0277	0.5346
	-34132.0699	0.0235	-0.7718

Adjustment Statistical Summary

Iterations = 3
 Number of Stations = 30
 Number of Observations = 544
 Number of Unknowns = 60
 Number of Redundant Obs = 484

Observation	Count	Sum Squares of StdRes	Error Factor
Angles	2	2.842	1.264
Distances	18	1.422	0.298
Elev Diffs	2	1.000	0.750
GPS Deltas	522	539.098	1.077
Total	544	544.362	1.061

The Chi-Square Test at 5.00% Level Passed
 Lower/Upper Bounds (0.937/1.063)

Adjusted Station Information

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Coordinate Changes from Entered Provisionals (Meters)
(Elevations Marked with (*) are Ellipsoid Heights)

Station	dN	dE	dZ
10924A	n/a	n/a	0.000000
1A	n/a	n/a	0.000000
1B	n/a	n/a	0.000000
2A	n/a	n/a	0.000000
2B	n/a	n/a	0.000000
3A	n/a	n/a	0.000000
3B	n/a	n/a	0.000000
3C	n/a	n/a	0.000000
4A	n/a	n/a	0.000000
4B	n/a	n/a	0.000000
5A	n/a	n/a	0.000000
5B	n/a	n/a	0.000000
61D	n/a	n/a	0.000000
61E	n/a	n/a	0.000000
61F	n/a	n/a	0.000000
6A	n/a	n/a	0.000000
6B	n/a	n/a	0.000000
6C	n/a	n/a	0.000000
CHS4A	n/a	n/a	0.000000
CTPU	0.000000	0.000000	0.033399*
DH10	n/a	n/a	0.000000
DH11	n/a	n/a	0.000000
DH7	n/a	n/a	0.000000
DH8	n/a	n/a	0.000000
DH9	n/a	n/a	0.000000
acu5	0.000000	0.000000	-0.011305*
zbw1	0.000000	0.000000	-0.037365*

Adjusted Coordinates (Meters)

Station	N	E	Elev	Description
10924A	888276.900224	224574.193748	64.725000	
1A	888763.011722	227284.153974	29.383000	
1B	888721.533556	227446.004510	31.092000	
2A	886567.152389	229591.017980	16.442000	
2B	886366.526362	229421.177590	14.149000	
3A	889669.623682	228764.597499	34.125000	
3B	889406.788010	228765.456516	32.028000	
3C	889346.137245	228797.772766	30.004000	
4A	891137.422980	226891.090622	29.019000	
4B	891069.814081	226520.540927	39.542000	
5A	888568.880900	226622.019371	34.309000	
5B	888708.056757	226314.327330	35.095000	
61D	888783.793352	226714.477903	33.981000	
61E	888690.386333	227754.200752	37.225000	
61F	888683.602533	228025.707455	27.857000	
6A	886353.774740	228309.621894	38.064000	
6B	886238.351142	228241.493354	36.783000	
6C	886102.622764	228128.135255	42.707000	
CHS12A	890140.905501	227328.721096	28.523998	
CHS1A	890563.088986	224139.195921	43.405105	
CHS4A	888350.539532	224767.849813	58.913000	
CHS9A	886754.061652	229117.702910	37.294711	
CTPU	850001.712267	167710.008572	86.751208	
DH10	888699.169382	225487.669775	38.442000	
DH11	886754.377514	229137.912465	37.213000	
DH7	896543.952644	225202.669251	43.221000	
DH8	891414.736760	231352.987371	11.619000	

DH9	884153.741248	228770.520899	16.702000
acu5	832769.476631	250994.276813	35.422642
zbw1	942790.566833	201603.261927	67.488943

Adjusted Positions and Ellipsoid Heights (Meters)

Station	Latitude	Longitude	Ellip Ht
10924A	42-14-40.44770486	71-12-08.05726963	36.495056
1A	42-14-55.87931671	71-10-09.76592975	1.190425
1B	42-14-54.51459455	71-10-02.71254699	2.900165
2A	42-13-44.40828002	71-08-29.53583465	-11.776164
2B	42-13-37.92893672	71-08-36.97904412	-14.075472
3A	42-15-25.07200033	71-09-05.02265836	5.972313
3B	42-15-16.55326476	71-09-05.03204684	3.868601
3C	42-15-14.58326274	71-09-03.63300835	1.843447
4A	42-16-12.88409742	71-10-26.51677370	0.880898
4B	42-16-10.73844619	71-10-42.69792185	11.397572
5A	42-14-49.66960686	71-10-38.68239978	6.104841
5B	42-14-54.21786964	71-10-52.08185728	6.891148
61D	42-14-56.62368090	71-10-34.61359094	5.782954
61E	42-14-53.46593063	71-09-49.27348149	9.035801
61F	42-14-53.21119820	71-09-37.43079826	-0.329300
6A	42-13-37.66333523	71-09-25.45430837	9.825848
6B	42-13-33.93125004	71-09-28.44546100	8.541425
6C	42-13-29.54691192	71-09-33.41236920	14.461646
CHS12A	42-15-40.53190981	71-10-07.58835341	0.365595
CHS1A	42-15-54.59308300	71-12-26.68993499	15.222345
CHS4A	42-14-42.81240066	71-11-59.59863035	30.686823
CHS9A	42-13-50.53007512	71-08-50.14315717	9.075324
CTPU	41-53-58.88883000	71-53-20.88992000	57.132899
DH10	42-14-54.02841153	71-11-28.14448222	10.230237
DH11	42-13-50.53760270	71-08-49.26174809	8.993867
DH7	42-19-08.31369463	71-11-39.35039582	15.212230
DH8	42-16-21.27341965	71-07-11.75536639	-16.455186
DH9	42-12-26.29820667	71-09-05.74720633	-11.580288
acu5	41-44-36.79696000	70-53-13.02735000	6.470095
zbw1	42-44-08.55936000	71-28-49.51855000	39.842735

Geoid Heights (Meters) and Vertical Deflections (Seconds)

Station	Geoid Ht	North Def	East Def
10924A	-28.229944	-4.6924	-1.8918
1A	-28.192575	-4.8556	-2.1049
1B	-28.191835	-4.8628	-2.1391
2A	-28.218164	-4.5159	-2.4948
2B	-28.224472	-4.5199	-2.4080
3A	-28.152687	-5.1607	-2.3561
3B	-28.159399	-5.1112	-2.3277
3C	-28.160553	-5.1027	-2.3247
4A	-28.138102	-5.1454	-2.4334
4B	-28.144428	-5.0405	-2.2532
5A	-28.204159	-4.7924	-1.7927
5B	-28.203852	-4.7804	-1.7347
61D	-28.198046	-4.8171	-1.8302
61E	-28.189199	-4.8832	-2.1961
61F	-28.186300	-4.9049	-2.2350
6A	-28.238152	-4.6056	-2.1464
6B	-28.241575	-4.5980	-2.1419
6C	-28.245354	-4.5795	-2.1715
CHS12A	-28.158403	-5.0468	-2.3596
CHS1A	-28.182760	-4.5504	-2.1341
CHS4A	-28.226177	-4.6927	-1.8373
CHS9A	-28.219387	-4.6092	-2.2802
CTPU	-29.618309	-5.9484	0.7496
DH10	-28.211763	-4.7146	-1.7049
DH11	-28.219133	-4.6076	-2.2855

DH7	-28.008770	-5.5827	-2.7326
DH8	-28.074186	-5.3262	-2.6170
DH9	-28.282288	-4.3582	-2.5217
acu5	-28.952547	-3.1578	-4.0838
zbw1	-27.646208	-1.8050	-1.7562
Averages:	-28.243958	-4.7123	-2.1515

Convergence Angles (DMS) and Grid Factors at Stations
 (Grid Azimuth = Geodetic Azimuth - Convergence)
 (Elevation Factor Includes a Geoid Height Correction at Each Station))

Station	Convergence Angle	Scale	x	Factors Elevation	=	Combined
10924A	0-12-00.05	0.99996484		0.99999428		0.99995912
1A	0-13-19.51	0.99996490		0.99999981		0.99996472
1B	0-13-24.25	0.99996490		0.99999955		0.99996444
2A	0-14-26.84	0.99996467		1.00000185		0.99996652
2B	0-14-21.84	0.99996466		1.00000221		0.99996686
3A	0-14-03.00	0.99996503		0.99999906		0.99996410
3B	0-14-03.00	0.99996499		0.99999939		0.99996439
3C	0-14-03.94	0.99996498		0.99999971		0.99996469
4A	0-13-08.26	0.99996529		0.99999986		0.99996515
4B	0-12-57.39	0.99996527		0.99999821		0.99996349
5A	0-13-00.09	0.99996488		0.99999904		0.99996392
5B	0-12-51.09	0.99996490		0.99999892		0.99996382
61D	0-13-02.82	0.99996491		0.99999909		0.99996400
61E	0-13-33.28	0.99996489		0.99999858		0.99996348
61F	0-13-41.23	0.99996489		1.00000005		0.99996494
6A	0-13-49.28	0.99996466		0.99999846		0.99996312
6B	0-13-47.27	0.99996465		0.99999866		0.99996331
6C	0-13-43.93	0.99996464		0.99999773		0.99996237
CHS12A	0-13-20.98	0.99996511		0.99999994		0.99996505
CHS1A	0-11-47.54	0.99996518		0.99999761		0.99996280
CHS4A	0-12-05.74	0.99996485		0.99999519		0.99996004
CHS9A	0-14-13.00	0.99996469		0.99999858		0.99996326
CTPU	-0-15-41.02	0.99997827		0.99999104		0.99996931
DH10	0-12-26.87	0.99996490		0.99999840		0.99996329
DH11	0-14-13.59	0.99996469		0.99999859		0.99996328
DH7	0-12-19.34	0.99996668		0.99999761		0.99996429
DH8	0-15-19.09	0.99996534		1.00000258		0.99996792
DH9	0-14-02.52	0.99996456		1.00000182		0.99996637
acu5	0-24-42.49	0.99999617		0.99999899		0.99999516
zbw1	0-00-47.34	1.00000812		0.99999375		1.00000187
Project Averages:	0-12-25.82	0.99996788		0.99999862		0.99996650

Adjusted Observations and Residuals
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Adjusted Measured Angle Observations (DMS)

From	At	To	Angle	Residual	StdErr	StdRes
6C	6B	6A	170-40-58.99	0-00-03.99	2.65	1.5
6A	6B	6C	189-19-01.01	0-00-02.01	2.65	0.8

Adjusted Measured Distance Observations (Meters)

From	To	Distance	Residual	StdErr	StdRes
2A	2B	262.871059	0.001059	0.001696	0.6
2B	2A	262.871058	-0.000942	0.001696	0.6
4A	4B	376.680287	-0.000713	0.001904	0.4
4B	4A	376.680297	-0.000703	0.001904	0.4
3C	3B	68.725504	-0.000496	0.001358	0.4
3B	3C	68.725504	-0.000496	0.001358	0.4
5A	5B	337.716676	-0.000324	0.001832	0.2
5B	5A	337.716676	-0.000324	0.001832	0.2
10924A	CHS4A	207.192782	-0.000218	0.001597	0.1
10924A	CHS4A	207.192782	-0.000218	0.001597	0.1
6A	6B	134.035202	0.000202	0.001469	0.1
6B	6A	134.035202	0.000202	0.001469	0.1
6B	6A	134.035202	0.000202	0.001469	0.1
1A	1B	167.086846	-0.000154	0.001526	0.1
1B	1A	167.086846	-0.000154	0.001526	0.1
6B	6C	176.846050	0.000050	0.001543	0.0
6B	6C	176.846050	0.000050	0.001543	0.0
6C	6B	176.846050	0.000050	0.001543	0.0

Adjusted Elevation Difference Observations (Meters)

From	To	Elev Diff	Residual	StdErr	StdRes
6B	6A	1.281000	0.001000	0.001000	1.0
6B	6C	5.924000	-0.000000	0.001000	0.0

Adjusted GPS Vector Observations Sorted by Residuals (Meters)

From	Component	Adj Value	Residual	StdErr	StdRes
To					
(V184	dedham-gpsbaselines-2008.asc	22.10.2007 07:54:01)			
acu5	Delta-N	57985.5518	0.0102	0.0175	0.6
CHS1A	Delta-E	-26439.9188	0.1366	0.0179	7.6*
	Delta-U	-310.1440	0.0031	0.0376	0.1
	Length	63729.8181			
(V199	dedham-gpsbaselines-2008.asc	16.07.2007 09:02:46)			
zblw1	Delta-N	-51658.8903	-0.0071	0.0149	0.5
4A	Delta-E	25276.7868	0.0052	0.0116	0.4
	Delta-U	-298.6222	-0.1237	0.0293	4.2*
	Length	57512.1385			
(V176	dedham-gpsbaselines-2008.asc	16.08.2007 07:44:56)			
acu5	Delta-N	58785.2397	0.0061	0.0143	0.4
DH8	Delta-E	-19219.8724	0.0118	0.0115	1.0
	Delta-U	-323.3544	0.1114	0.0279	4.0*
	Length	61848.3020			
(V181	dedham-gpsbaselines-2008.asc	04.09.2007 12:11:16)			
acu5	Delta-N	54141.1127	0.0210	0.0107	2.0
DH11	Delta-E	-21468.5454	0.0052	0.0104	0.5
	Delta-U	-263.8607	0.0916	0.0253	3.6*
	Length	58242.8377			
(V136	dedham-gpsbaselines-2008.asc	16.08.2007 07:44:56)			
CTPU	Delta-N	41702.2028	-0.0131	0.0142	0.9
DH8	Delta-E	63454.3734	0.0035	0.0115	0.3
	Delta-U	-525.4045	0.0843	0.0276	3.0*

	Length	75932.9130			
(V195 dedham-gpsbaselines-2008.asc		26.10.2007 08:56:16)			
acu5	Delta-N	54140.9422	0.0111	0.0221	0.5
CHS9A	Delta-E	-21488.7576	-0.0017	0.0234	0.1
	Delta-U	-263.8457	0.0842	0.0490	1.7
	Length	58250.1326			
(V138 dedham-gpsbaselines-2008.asc		23.08.2007 12:00:06)			
CTPU	Delta-N	38960.3270	-0.0043	0.0144	0.3
DH10	Delta-E	57601.8481	-0.0020	0.0122	0.2
	Delta-U	-425.8810	-0.0793	0.0316	2.5
	Length	69541.7958			
(V85 dedham-gpsbaselines-2008.asc		06.09.2007 07:39:06)			
4A	Delta-N	51750.1938	0.0081	0.0103	0.8
zbw1	Delta-E	-25090.1337	0.0072	0.0092	0.8
	Delta-U	-220.7072	-0.0722	0.0201	3.6*
	Length	57512.1385			
(V63 dedham-gpsbaselines-2008.asc		26.10.2007 09:47:46)			
3A	Delta-N	-2917.0874	0.0068	0.0115	0.6
CHS9A	Delta-E	341.1991	0.0293	0.0147	2.0
	Delta-U	2.4254	-0.0610	0.0306	2.0
	Length	2936.9749			
(V200 dedham-gpsbaselines-2008.asc		04.09.2007 07:56:06)			
zbw1	Delta-N	-46252.1128	-0.0078	0.0124	0.6
DH7	Delta-E	23589.5801	-0.0166	0.0100	1.7
	Delta-U	-236.2470	-0.0620	0.0350	1.8
	Length	51920.9210			
(V168 dedham-gpsbaselines-2008.asc		04.09.2007 07:56:06)			
DH7	Delta-N	-63867.1204	-0.0019	0.0105	0.2
acu5	Delta-E	25562.9048	-0.0038	0.0089	0.4
	Delta-U	-380.3699	0.0638	0.0282	2.3
	Length	68794.0103			
(V171 dedham-gpsbaselines-2008.asc		11.07.2007 11:49:26)			
acu5	Delta-N	56120.2758	0.0017	0.0101	0.2
1B	Delta-E	-23146.2957	0.0096	0.0084	1.1
	Delta-U	-292.9598	-0.0562	0.0152	3.7*
	Length	60706.8545			
(V116 dedham-gpsbaselines-2008.asc		13.09.2007 08:56:06)			
6A	Delta-N	2362.3709	-0.0016	0.0141	0.1
5B	Delta-E	-1985.8850	0.0278	0.0137	2.0
	Delta-U	-3.6818	0.0489	0.0267	1.8
	Length	3086.1868			
(V180 dedham-gpsbaselines-2008.asc		29.08.2007 12:01:36)			
acu5	Delta-N	56086.9773	0.0158	0.0126	1.3
61E	Delta-E	-22838.3443	0.0083	0.0106	0.8
	Delta-U	-285.4219	-0.0497	0.0271	1.8
	Length	60559.2310			
(V165 dedham-gpsbaselines-2008.asc		06.09.2007 07:36:16)			
DH11	Delta-N	56150.4382	0.0116	0.0105	1.1
zbw1	Delta-E	-27302.3833	0.0065	0.0091	0.7
	Delta-U	-275.1950	-0.0500	0.0214	2.3
	Length	62436.9087			
(V43 dedham-gpsbaselines-2008.asc		12.07.2007 07:58:16)			
2A	Delta-N	2782.3926	0.0011	0.0098	0.1
3C	Delta-E	-781.5870	0.0076	0.0135	0.6
	Delta-U	12.9636	0.0501	0.0371	1.4
	Length	2890.1133			
(V122 dedham-gpsbaselines-2008.asc		29.08.2007 08:01:56)			
6C	Delta-N	-53424.8284	-0.0092	0.0175	0.5
acu5	Delta-E	22652.9808	-0.0019	0.0141	0.1
	Delta-U	-272.4080	0.0495	0.0456	1.1
	Length	58029.6824			
(V141 dedham-gpsbaselines-2008.asc		07.09.2007 07:38:46)			
CTPU	Delta-N	38534.0890	-0.0055	0.0122	0.5
10924A	Delta-E	56690.5473	0.0009	0.0088	0.1
	Delta-U	-388.8664	-0.0496	0.0222	2.2
	Length	68548.1246			

(V61 dedham-gpsbaselines-2008.asc 31.08.2007 11:45:36)					
3A	Delta-N	-975.1352	-0.0238	0.0422	0.6
61E	Delta-E	-1014.4275	-0.0024	0.0166	0.1
	Delta-U	2.9082	-0.0431	0.0299	1.4
	Length	1407.1106			
(V6 dedham-gpsbaselines-2008.asc 30.08.2007 08:14:06)					
10924A	Delta-N	425.0948	0.0147	0.0134	1.1
5B	Delta-E	1741.6911	0.0011	0.0115	0.1
	Delta-U	-29.8555	-0.0463	0.0302	1.5
	Length	1793.0658			
(V120 dedham-gpsbaselines-2008.asc 12.12.2007 12:58:46)					
6B	Delta-N	323.3969	0.0170	0.0127	1.3
2A	Delta-E	1350.8777	-0.0420	0.0109	3.9*
	Delta-U	-20.4686	-0.0051	0.0218	0.2
	Length	1389.1995			
(V148 dedham-gpsbaselines-2008.asc 23.10.2007 07:39:46)					
CTPU	Delta-N	34429.5519	-0.0083	0.0121	0.7
DH9	Delta-E	60905.1948	-0.0086	0.0106	0.8
	Delta-U	-452.2116	0.0433	0.0235	1.8
	Length	69964.5717			
(V149 dedham-gpsbaselines-2008.asc 23.10.2007 09:57:46)					
CTPU	Delta-N	40818.2024	0.0094	0.0236	0.4
CHS1A	Delta-E	56244.9164	-0.0387	0.0242	1.6
	Delta-U	-420.4412	-0.0188	0.0931	0.2
	Length	69496.7124			
(V44 dedham-gpsbaselines-2008.asc 12.07.2007 07:58:16)					
2A	Delta-N	2163.4540	0.0032	0.0092	0.4
1B	Delta-E	-2136.0165	0.0023	0.0122	0.2
	Delta-U	13.9515	0.0437	0.0333	1.3
	Length	3040.2787			
(V7 dedham-gpsbaselines-2008.asc 30.08.2007 08:59:16)					
10924A	Delta-N	284.8406	0.0150	0.0157	1.0
5A	Delta-E	2048.9063	-0.0072	0.0092	0.8
	Delta-U	-30.7252	-0.0404	0.0289	1.4
	Length	2068.8391			
(V117 dedham-gpsbaselines-2008.asc 12.12.2007 10:14:46)					
6A	Delta-N	208.2312	-0.0143	0.0147	1.0
2A	Delta-E	1282.2865	-0.0166	0.0184	0.9
	Delta-U	-21.7341	-0.0332	0.0379	0.9
	Length	1299.2657			
(V62 dedham-gpsbaselines-2008.asc 04.09.2007 07:52:06)					
3A	Delta-N	6889.0811	-0.0045	0.0133	0.3
DH7	Delta-E	-3533.9292	-0.0164	0.0106	1.5
	Delta-U	4.5338	0.0355	0.0382	0.9
	Length	7742.6168			
(V55 dedham-gpsbaselines-2008.asc 12.12.2007 09:11:06)					
2B	Delta-N	199.9213	-0.0194	0.0114	1.7
2A	Delta-E	170.6829	-0.0298	0.0106	2.8
	Delta-U	2.2939	-0.0119	0.0312	0.4
	Length	262.8811			
(V157 dedham-gpsbaselines-2008.asc 16.08.2007 10:12:06)					
DH10	Delta-N	-56022.4245	-0.0137	0.0232	0.6
acu5	Delta-E	25303.9814	-0.0243	0.0170	1.4
	Delta-U	-300.4651	-0.0249	0.0520	0.5
	Length	61472.7078			
(V8 dedham-gpsbaselines-2008.asc 07.09.2007 07:41:16)					
10924A	Delta-N	-1727.3069	0.0102	0.0104	1.0
2A	Delta-E	5010.9924	0.0096	0.0081	1.2
	Delta-U	-50.4711	-0.0343	0.0198	1.7
	Length	5300.5831			
(V56 dedham-gpsbaselines-2008.asc 10.07.2007 13:38:16)					
3A	Delta-N	1475.4959	0.0097	0.0120	0.8
4A	Delta-E	-1867.5574	0.0164	0.0110	1.5
	Delta-U	-5.5355	-0.0310	0.0204	1.5
	Length	2380.1028			
(V192 dedham-gpsbaselines-2008.asc 24.10.2007 07:44:16)					

acu5	Delta-N	57540.4217	0.0218	0.0107	2.0
CHS12A	Delta-E	-23253.3636	0.0004	0.0096	0.0
	Delta-U	-308.5658	0.0291	0.0186	1.6
	Length	62062.1806			
(V107 dedham-gpsbaselines-2008.asc 12.07.2007 11:48:06)					
6A	Delta-N	2221.9537	-0.0281	0.0247	1.1
5A	Delta-E	-1678.7437	-0.0113	0.0114	1.0
	Delta-U	-4.3295	0.0197	0.0322	0.6
	Length	2784.8299			
(V167 dedham-gpsbaselines-2008.asc 04.09.2007 07:55:56)					
DH7	Delta-N	-46336.8155	0.0098	0.0124	0.8
CTPU	Delta-E	-57660.1105	0.0067	0.0100	0.7
	Delta-U	-387.0172	0.0340	0.0327	1.0
	Length	73972.5530			
(V47 dedham-gpsbaselines-2008.asc 23.07.2007 13:17:06)					
2A	Delta-N	-199.9171	0.0090	0.0160	0.6
2B	Delta-E	-170.6877	-0.0093	0.0100	0.9
	Delta-U	-2.3047	0.0334	0.0235	1.4
	Length	262.8811			
(V128 dedham-gpsbaselines-2008.asc 10.01.2008 12:51:56)					
6C	Delta-N	135.2794	-0.0302	0.0183	1.7
6B	Delta-E	113.9035	0.0173	0.0106	1.6
	Delta-U	-5.9227	0.0004	0.0318	0.0
	Length	176.9453			
(V86 dedham-gpsbaselines-2008.asc 03.01.2008 08:51:46)					
4A	Delta-N	-66.1947	-0.0088	0.0097	0.9
4B	Delta-E	-370.8189	-0.0006	0.0097	0.1
	Delta-U	10.5056	-0.0321	0.0186	1.7
	Length	376.8272			
(V73 dedham-gpsbaselines-2008.asc 24.07.2007 12:14:26)					
3C	Delta-N	-2990.4499	0.0035	0.0144	0.2
6A	Delta-E	-500.4085	-0.0084	0.0119	0.7
	Delta-U	7.2602	-0.0316	0.0244	1.3
	Length	3032.0376			
(V125 dedham-gpsbaselines-2008.asc 29.08.2007 08:01:56)					
6C	Delta-N	-1951.4975	-0.0080	0.0100	0.8
DH9	Delta-E	634.6170	-0.0028	0.0090	0.3
	Delta-U	-26.3727	0.0315	0.0206	1.5
	Length	2052.2614			
(V190 dedham-gpsbaselines-2008.asc 23.10.2007 12:00:46)					
acu5	Delta-N	51543.0010	0.0219	0.0133	1.6
DH9	Delta-E	-21854.5634	0.0197	0.0138	1.4
	Delta-U	-264.1711	0.0129	0.0310	0.4
	Length	55985.4684			
(V95 dedham-gpsbaselines-2008.asc 23.07.2007 11:47:16)					
5B	Delta-N	-140.3302	0.0219	0.0203	1.1
5A	Delta-E	307.1807	0.0101	0.0120	0.8
	Delta-U	-0.7952	0.0210	0.0436	0.5
	Length	337.7176			
(V173 dedham-gpsbaselines-2008.asc 15.08.2007 08:36:56)					
acu5	Delta-N	55696.5013	0.0026	0.0128	0.2
10924A	Delta-E	-26021.4471	0.0074	0.0100	0.7
	Delta-U	-266.7060	0.0310	0.0293	1.1
	Length	61475.9067			
(V2 dedham-gpsbaselines-2008.asc 16.08.2007 10:01:56)					
10924A	Delta-N	-55600.0587	-0.0195	0.0137	1.4
acu5	Delta-E	26226.2046	-0.0088	0.0117	0.8
	Delta-U	-326.7459	-0.0233	0.0307	0.8
	Length	61475.9067			
(V88 dedham-gpsbaselines-2008.asc 22.08.2007 09:59:41)					
4B	Delta-N	-2351.8349	-0.0167	0.0128	1.3
1B	Delta-E	916.6392	0.0180	0.0112	1.6
	Delta-U	-8.9977	-0.0182	0.0246	0.7
	Length	2524.1703			
(V11 dedham-gpsbaselines-2008.asc 22.10.2007 07:54:06)					
10924A	Delta-N	2287.7789	0.0062	0.0092	0.7

CHS1A	Delta-E	-427.0302	-0.0295	0.0087	3.4*
	Delta-U	-21.6982	0.0040	0.0151	0.3
	Length	2327.3929			
(V115 dedham-gpsbaselines-2008.asc 07.09.2007 09:38:56)					
6A	Delta-N	2356.8083	0.0162	0.0136	1.2
DH10	Delta-E	-2812.6029	0.0092	0.0125	0.7
	Delta-U	-0.6512	-0.0239	0.0262	0.9
	Length	3669.5069			
(V147 dedham-gpsbaselines-2008.asc 23.10.2007 07:24:46)					
CTPU	Delta-N	38608.5684	0.0004	0.0148	0.0
CHS4A	Delta-E	56883.8134	-0.0081	0.0122	0.7
	Delta-U	-396.8446	0.0288	0.0287	1.0
	Length	68749.8892			
(V201 dedham-gpsbaselines-2008.asc 05.09.2007 12:07:06)					
zbw1	Delta-N	-56042.4335	-0.0083	0.0093	0.9
DH11	Delta-E	27522.7131	-0.0070	0.0087	0.8
	Delta-U	-336.8822	-0.0278	0.0185	1.5
	Length	62436.9087			
(V76 dedham-gpsbaselines-2008.asc 20.12.2007 12:51:46)					
3C	Delta-N	323.6311	0.0099	0.0145	0.7
3A	Delta-E	-31.8526	-0.0021	0.0115	0.2
	Delta-U	4.1206	0.0274	0.0290	0.9
	Length	325.2209			
(V102 dedham-gpsbaselines-2008.asc 29.08.2007 10:00:06)					
61E	Delta-N	-7.8545	0.0047	0.0269	0.2
61F	Delta-E	271.4874	0.0145	0.0375	0.4
	Delta-U	-9.3709	0.0242	0.0537	0.5
	Length	271.7626			
(V3 dedham-gpsbaselines-2008.asc 16.08.2007 10:01:56)					
10924A	Delta-N	-38077.5642	-0.0008	0.0146	0.1
CTPU	Delta-E	-56998.4533	-0.0001	0.0123	0.0
	Delta-U	-347.5845	-0.0286	0.0334	0.9
	Length	68548.1246			
(V169 dedham-gpsbaselines-2008.asc 04.09.2007 09:58:56)					
DH7	Delta-N	-7788.6181	0.0012	0.0100	0.1
1A	Delta-E	2053.6537	-0.0043	0.0091	0.5
	Delta-U	-19.1177	-0.0279	0.0158	1.8
	Length	8054.8390			
(V179 dedham-gpsbaselines-2008.asc 28.08.2007 10:03:26)					
acu5	Delta-N	56086.9773	-0.0012	0.0254	0.0
61E	Delta-E	-22838.3443	0.0054	0.0169	0.3
	Delta-U	-285.4219	-0.0275	0.0335	0.8
	Length	60559.2310			
(V191 dedham-gpsbaselines-2008.asc 23.10.2007 12:08:01)					
acu5	Delta-N	57540.4217	0.0076	0.0094	0.8
CHS12A	Delta-E	-23253.3636	0.0174	0.0097	1.8
	Delta-U	-308.5658	-0.0199	0.0186	1.1
	Length	62062.1806			
(V209 dedham-gpsbaselines-2008.asc 24.10.2007 07:44:16)					
zbw1	Delta-N	-52655.4890	-0.0046	0.0110	0.4
CHS12A	Delta-E	25714.2028	-0.0185	0.0098	1.9
	Delta-U	-309.0509	0.0197	0.0193	1.0
	Length	58599.6268			
(V89 dedham-gpsbaselines-2008.asc 03.01.2008 10:21:46)					
4B	Delta-N	-2361.0483	0.0007	0.0123	0.1
5B	Delta-E	-215.1211	-0.0125	0.0106	1.2
	Delta-U	-4.9480	-0.0241	0.0258	0.9
	Length	2370.8333			
(V98 dedham-gpsbaselines-2008.asc 22.08.2007 07:45:06)					
61D	Delta-N	2353.0248	0.0170	0.0150	1.1
4A	Delta-E	185.5505	0.0108	0.0112	1.0
	Delta-U	-5.3397	-0.0180	0.0206	0.9
	Length	2360.3354			
(V197 dedham-gpsbaselines-2008.asc 11.07.2007 11:49:26)					
zbw1	Delta-N	-54074.9049	-0.0030	0.0114	0.3
1B	Delta-E	25831.1793	-0.0202	0.0090	2.2

	Delta-U	-318.8901	-0.0175	0.0180	1.0
	Length	59928.6814			
(V160 dedham-gpsbaselines-2008.asc 07.09.2007 11:42:16)					
DH10	Delta-N	-2146.9313	0.0031	0.0113	0.3
2A	Delta-E	4095.7384	0.0031	0.0102	0.3
	Delta-U	-23.6816	0.0262	0.0245	1.1
	Length	4624.3862			
(V170 dedham-gpsbaselines-2008.asc 06.09.2007 10:00:06)					
DH9	Delta-N	4540.9250	0.0083	0.0089	0.9
61E	Delta-E	-997.8176	0.0024	0.0084	0.3
	Delta-U	18.9182	-0.0247	0.0132	1.9
	Length	4649.3007			
(V139 dedham-gpsbaselines-2008.asc 28.08.2007 10:03:26)					
CTPU	Delta-N	38961.7673	-0.0210	0.0274	0.8
61E	Delta-E	59868.3717	-0.0095	0.0180	0.5
	Delta-U	-447.9260	0.0112	0.0361	0.3
	Length	71431.3788			
(V74 dedham-gpsbaselines-2008.asc 23.08.2007 12:00:06)					
3C	Delta-N	-633.4415	-0.0005	0.0085	0.1
DH10	Delta-E	-3312.8438	-0.0043	0.0081	0.5
	Delta-U	7.4962	-0.0250	0.0138	1.8
	Length	3372.8680			
(V111 dedham-gpsbaselines-2008.asc 24.07.2007 13:16:16)					
6A	Delta-N	3051.2651	0.0106	0.0114	0.9
3B	Delta-E	468.1221	0.0132	0.0093	1.4
	Delta-U	-6.7058	0.0188	0.0173	1.1
	Length	3086.9729			
(V5 dedham-gpsbaselines-2008.asc 16.08.2007 12:00:26)					
10924A	Delta-N	-38077.5642	0.0064	0.0170	0.4
CTPU	Delta-E	-56998.4533	0.0242	0.0123	2.0
	Delta-U	-347.5845	-0.0032	0.0282	0.1
	Length	68548.1246			
(V21 dedham-gpsbaselines-2008.asc 22.08.2007 07:54:06)					
1A	Delta-N	22.9905	-0.0099	0.0168	0.6
61D	Delta-E	-569.6117	-0.0070	0.0125	0.6
	Delta-U	4.5671	0.0217	0.0247	0.9
	Length	570.0938			
(V66 dedham-gpsbaselines-2008.asc 16.07.2007 12:46:46)					
3B	Delta-N	-637.7392	-0.0010	0.0120	0.1
1A	Delta-E	-1483.9736	0.0220	0.0094	2.3
	Delta-U	-2.8825	0.0111	0.0156	0.7
	Length	1615.2081			
(V207 dedham-gpsbaselines-2008.asc 22.10.2007 12:00:16)					
zbw1	Delta-N	-56042.7462	-0.0186	0.0147	1.3
CHS9A	Delta-E	27502.5033	-0.0155	0.0143	1.1
	Delta-U	-336.7165	-0.0009	0.0328	0.0
	Length	62428.2826			
(V34 dedham-gpsbaselines-2008.asc 13.07.2007 11:44:46)					
1B	Delta-N	-2486.3561	-0.0083	0.0127	0.7
6B	Delta-E	785.8294	0.0102	0.0086	1.2
	Delta-U	5.1072	-0.0199	0.0228	0.9
	Length	2607.5890			
(V159 dedham-gpsbaselines-2008.asc 30.08.2007 13:38:16)					
DH10	Delta-N	-2146.9313	-0.0069	0.0093	0.7
2A	Delta-E	4095.7384	0.0094	0.0091	1.0
	Delta-U	-23.6816	0.0207	0.0225	0.9
	Length	4624.3862			
(V188 dedham-gpsbaselines-2008.asc 23.10.2007 07:24:46)					
acu5	Delta-N	55768.7024	0.0160	0.0129	1.2
CHS4A	Delta-E	-25827.2367	0.0027	0.0109	0.3
	Delta-U	-272.3587	0.0174	0.0243	0.7
	Length	61459.4867			
(V182 dedham-gpsbaselines-2008.asc 07.09.2007 09:04:16)					
acu5	Delta-N	53746.4573	0.0101	0.0164	0.6
6A	Delta-E	-22299.7231	0.0001	0.0133	0.0
	Delta-U	-262.5310	0.0214	0.0288	0.7

	Length	58189.5888			
(V53 dedham-gpsbaselines-2008.asc 26.10.2007 08:56:16)					
2A	Delta-N	188.9037	0.0125	0.0122	1.0
CHS9A	Delta-E	-472.5428	0.0047	0.0133	0.4
	Delta-U	20.8312	0.0195	0.0306	0.6
	Length	509.3282			
(V166 dedham-gpsbaselines-2008.asc 15.08.2007 10:03:51)					
DH7	Delta-N	-7846.0345	-0.0028	0.0109	0.3
DH10	Delta-E	256.8893	-0.0039	0.0081	0.5
	Delta-U	-9.8235	-0.0228	0.0158	1.4
	Length	7850.2449			
(V4 dedham-gpsbaselines-2008.asc 16.08.2007 10:09:31)					
10924A	Delta-N	419.0932	-0.0040	0.0092	0.4
DH10	Delta-E	914.9781	0.0027	0.0082	0.3
	Delta-U	-26.3441	-0.0225	0.0156	1.4
	Length	1006.7364			
(V46 dedham-gpsbaselines-2008.asc 16.07.2007 08:02:46)					
2A	Delta-N	-458.3948	0.0082	0.0111	0.7
6C	Delta-E	-1464.8771	-0.0079	0.0141	0.6
	Delta-U	26.0533	-0.0195	0.0302	0.6
	Length	1535.1448			
(V185 dedham-gpsbaselines-2008.asc 22.10.2007 09:52:46)					
acu5	Delta-N	55696.5013	0.0144	0.0137	1.1
10924A	Delta-E	-26021.4471	0.0032	0.0136	0.2
	Delta-U	-266.7060	-0.0171	0.0443	0.4
	Length	61475.9067			
(V75 dedham-gpsbaselines-2008.asc 27.08.2007 12:00:06)					
3C	Delta-N	-2593.2245	0.0046	0.0076	0.6
DH11	Delta-E	329.5447	-0.0032	0.0075	0.4
	Delta-U	6.6136	-0.0218	0.0107	2.0
	Length	2614.0882			
(V202 dedham-gpsbaselines-2008.asc 07.09.2007 09:00:06)					
zbw1	Delta-N	-56442.8854	-0.0142	0.0164	0.9
6A	Delta-E	26694.3120	-0.0163	0.0133	1.2
	Delta-U	-336.0734	-0.0039	0.0285	0.1
	Length	62437.9576			
(V132 dedham-gpsbaselines-2008.asc 13.07.2007 08:26:06)					
CTPU	Delta-N	36375.6990	0.0049	0.0189	0.3
6C	Delta-E	60254.1723	-0.0135	0.0207	0.7
	Delta-U	-430.8202	-0.0161	0.0416	0.4
	Length	70384.2480			
(V174 dedham-gpsbaselines-2008.asc 15.08.2007 11:53:26)					
acu5	Delta-N	63958.5971	0.0132	0.0097	1.4
DH7	Delta-E	-25333.4170	0.0162	0.0089	1.8
	Delta-U	-362.8986	0.0034	0.0155	0.2
	Length	68794.0103			
(V163 dedham-gpsbaselines-2008.asc 05.09.2007 08:01:46)					
DH11	Delta-N	2016.3599	-0.0009	0.0088	0.1
1A	Delta-E	-1845.4953	-0.0015	0.0081	0.2
	Delta-U	-8.3894	0.0211	0.0165	1.3
	Length	2733.4284			
(V42 dedham-gpsbaselines-2008.asc 08.01.2008 10:20:16)					
1B	Delta-N	65.1140	0.0085	0.0102	0.8
61D	Delta-E	-731.3046	-0.0005	0.0097	0.1
	Delta-U	2.8406	0.0191	0.0187	1.0
	Length	734.2032			
(V206 dedham-gpsbaselines-2008.asc 22.10.2007 09:55:46)					
zbw1	Delta-N	-54445.6175	-0.0136	0.0108	1.3
CHS4A	Delta-E	23152.9658	-0.0082	0.0108	0.8
	Delta-U	-283.9936	-0.0136	0.0309	0.4
	Length	59164.7339			
(V84 dedham-gpsbaselines-2008.asc 06.09.2007 07:39:06)					
4A	Delta-N	-40910.2921	0.0042	0.0100	0.4
CTPU	Delta-E	-59338.8286	0.0027	0.0090	0.3
	Delta-U	-350.8633	-0.0203	0.0192	1.1
	Length	72075.4583			

(V48 dedham-gpsbaselines-2008.asc 23.07.2007 13:19:16)					
2A	Delta-N	2014.2614	-0.0195	0.0117	1.7
5A	Delta-E	-2960.6667	-0.0042	0.0097	0.4
	Delta-U	16.8761	0.0061	0.0198	0.3
	Length	3580.9330			
(V110 dedham-gpsbaselines-2008.asc 13.07.2007 13:19:16)					
6A	Delta-N	2990.4818	-0.0100	0.0106	0.9
3C	Delta-E	500.1952	-0.0024	0.0088	0.3
	Delta-U	-8.7046	0.0178	0.0139	1.3
	Length	3032.0376			
(V198 dedham-gpsbaselines-2008.asc 13.07.2007 08:26:06)					
zbw1	Delta-N	-56694.0434	-0.0033	0.0186	0.2
6C	Delta-E	26512.7823	-0.0187	0.0203	0.9
	Delta-U	-332.9137	0.0068	0.0406	0.2
	Length	62587.9622			
(V121 dedham-gpsbaselines-2008.asc 11.01.2008 08:36:46)					
6B	Delta-N	123.4470	-0.0121	0.0210	0.6
2B	Delta-E	1180.2279	-0.0116	0.0145	0.8
	Delta-U	-22.7271	-0.0109	0.0386	0.3
	Length	1186.8840			
(V129 dedham-gpsbaselines-2008.asc 10.01.2008 14:25:56)					
6C	Delta-N	258.7450	-0.0160	0.0134	1.2
2B	Delta-E	1294.1291	-0.0072	0.0096	0.7
	Delta-U	-28.6735	-0.0090	0.0212	0.4
	Length	1320.0535			
(V72 dedham-gpsbaselines-2008.asc 24.07.2007 11:50:46)					
3C	Delta-N	1733.0436	0.0140	0.0219	0.6
4B	Delta-E	-2270.2432	-0.0088	0.0147	0.6
	Delta-U	8.9147	0.0106	0.0412	0.3
	Length	2856.1379			
(V150 dedham-gpsbaselines-2008.asc 23.10.2007 12:08:01)					
CTPU	Delta-N	40410.3211	-0.0043	0.0104	0.4
CHS12A	Delta-E	59436.1883	0.0102	0.0110	0.9
	Delta-U	-461.5940	-0.0160	0.0225	0.7
	Length	71873.9702			
(V178 dedham-gpsbaselines-2008.asc 23.08.2007 12:00:06)					
acu5	Delta-N	56111.9928	0.0049	0.0142	0.3
DH10	Delta-E	-25104.8251	0.0117	0.0121	1.0
	Delta-U	-292.9537	-0.0148	0.0312	0.5
	Length	61472.7078			
(V203 dedham-gpsbaselines-2008.asc 07.09.2007 13:39:36)					
zbw1	Delta-N	-54033.3811	-0.0125	0.0130	1.0
1A	Delta-E	25669.3268	-0.0145	0.0131	1.1
	Delta-U	-319.5948	-0.0008	0.0342	0.0
	Length	59821.5911			
(V158 dedham-gpsbaselines-2008.asc 30.08.2007 09:54:26)					
DH10	Delta-N	-134.3998	0.0117	0.0153	0.8
5A	Delta-E	1133.9113	0.0127	0.0109	1.2
	Delta-U	-4.2275	0.0081	0.0186	0.4
	Length	1141.8564			
(V28 dedham-gpsbaselines-2008.asc 25.10.2007 13:29:46)					
1A	Delta-N	-2016.1157	-0.0064	0.0084	0.8
CHS9A	Delta-E	1825.8152	-0.0027	0.0087	0.3
	Delta-U	7.3046	-0.0176	0.0163	1.1
	Length	2719.9958			
(V151 dedham-gpsbaselines-2008.asc 23.10.2007 12:20:16)					
CTPU	Delta-N	34429.5519	0.0101	0.0149	0.7
DH9	Delta-E	60905.1948	0.0115	0.0162	0.7
	Delta-U	-452.2116	0.0105	0.0389	0.3
	Length	69964.5717			
(V101 dedham-gpsbaselines-2008.asc 08.01.2008 14:27:56)					
61D	Delta-N	-498.7867	0.0090	0.0125	0.7
10924A	Delta-E	-2142.2800	-0.0142	0.0137	1.0
	Delta-U	30.3333	0.0075	0.0271	0.3
	Length	2199.7891			
(V112 dedham-gpsbaselines-2008.asc 24.07.2007 13:18:16)					

6A	Delta-N	4789.4810	0.0049	0.0106	0.5
4A	Delta-E	-1399.3361	0.0110	0.0091	1.2
	Delta-U	-10.9004	0.0139	0.0169	0.8
	Length	4989.7283			
(V93 dedham-gpsbaselines-2008.asc 17.09.2007 08:45:16)					
5A	Delta-N	117.2270	-0.0070	0.0156	0.5
61E	Delta-E	1132.6742	-0.0092	0.0111	0.8
	Delta-U	2.8295	0.0139	0.0186	0.8
	Length	1138.7278			
(V41 dedham-gpsbaselines-2008.asc 04.01.2008 10:16:46)					
1B	Delta-N	-9.0644	0.0031	0.0099	0.3
5B	Delta-E	-1131.7621	-0.0095	0.0086	1.1
	Delta-U	3.8907	-0.0148	0.0164	0.9
	Length	1131.8051			
(V134 dedham-gpsbaselines-2008.asc 15.08.2007 08:36:56)					
CTPU	Delta-N	38534.0890	-0.0028	0.0132	0.2
10924A	Delta-E	56690.5473	0.0086	0.0102	0.8
	Delta-U	-388.8664	-0.0153	0.0305	0.5
	Length	68548.1246			
(V94 dedham-gpsbaselines-2008.asc 03.01.2008 12:51:16)					
5A	Delta-N	2501.3909	-0.0060	0.0181	0.3
4B	Delta-E	-92.0226	-0.0050	0.0115	0.4
	Delta-U	4.8005	-0.0157	0.0213	0.7
	Length	2503.0876			
(V127 dedham-gpsbaselines-2008.asc 10.01.2008 10:22:46)					
6C	Delta-N	250.4343	0.0002	0.0100	0.0
6A	Delta-E	182.4952	-0.0003	0.0091	0.0
	Delta-U	-4.6433	-0.0173	0.0183	0.9
	Length	309.9086			
(V68 dedham-gpsbaselines-2008.asc 20.12.2007 08:49:56)					
3B	Delta-N	262.8464	-0.0151	0.0095	1.6
3A	Delta-E	0.2152	0.0010	0.0101	0.1
	Delta-U	2.0983	-0.0082	0.0249	0.3
	Length	262.8549			
(V57 dedham-gpsbaselines-2008.asc 11.07.2007 13:43:26)					
3A	Delta-N	-900.5854	-0.0102	0.0168	0.6
1A	Delta-E	-1484.1888	-0.0101	0.0130	0.8
	Delta-U	-5.0180	-0.0084	0.0222	0.4
	Length	1736.0575			
(V152 dedham-gpsbaselines-2008.asc 24.10.2007 07:44:16)					
CTPU	Delta-N	40410.3211	0.0039	0.0122	0.3
CHS12A	Delta-E	59436.1883	-0.0145	0.0107	1.4
	Delta-U	-461.5940	0.0057	0.0223	0.3
	Length	71873.9702			
(V187 dedham-gpsbaselines-2008.asc 22.10.2007 12:00:16)					
acu5	Delta-N	54140.9422	0.0128	0.0141	0.9
CHS9A	Delta-E	-21488.7576	0.0015	0.0137	0.1
	Delta-U	-263.8457	0.0094	0.0309	0.3
	Length	58250.1326			
(V142 dedham-gpsbaselines-2008.asc 07.09.2007 08:49:46)					
CTPU	Delta-N	36627.6461	0.0010	0.0159	0.1
6A	Delta-E	60434.4650	-0.0057	0.0130	0.4
	Delta-U	-438.6047	-0.0146	0.0277	0.5
	Length	70668.9564			
(V30 dedham-gpsbaselines-2008.asc 10.07.2007 10:16:36)					
1B	Delta-N	2418.1195	-0.0028	0.0112	0.2
4A	Delta-E	-545.5088	-0.0024	0.0087	0.3
	Delta-U	-2.5019	-0.0152	0.0219	0.7
	Length	2478.8884			
(V78 dedham-gpsbaselines-2008.asc 16.07.2007 09:59:46)					
4A	Delta-N	-4904.3747	-0.0089	0.0114	0.8
6B	Delta-E	1331.7195	-0.0055	0.0104	0.5
	Delta-U	5.6320	-0.0113	0.0313	0.4
	Length	5081.9681			
(V23 dedham-gpsbaselines-2008.asc 27.08.2007 12:00:06)					
1A	Delta-N	577.2747	-0.0027	0.0076	0.4

3C	Delta-E	1515.9212	0.0009	0.0075	0.1
	Delta-U	0.4470	0.0141	0.0106	1.3
	Length	1622.1169			
(V14 dedham-gpsbaselines-2008.asc 22.10.2007 11:52:16)					
10924A	Delta-N	-38077.5642	0.0068	0.0097	0.7
CTPU	Delta-E	-56998.4533	0.0029	0.0095	0.3
	Delta-U	-347.5845	0.0123	0.0175	0.7
	Length	68548.1246			
(V65 dedham-gpsbaselines-2008.asc 11.01.2008 14:30:16)					
3A	Delta-N	-323.6307	-0.0053	0.0162	0.3
3C	Delta-E	31.8540	-0.0028	0.0103	0.3
	Delta-U	-4.1372	-0.0130	0.0224	0.6
	Length	325.2209			
(V131 dedham-gpsbaselines-2008.asc 11.07.2007 11:49:31)					
CTPU	Delta-N	38991.4863	-0.0088	0.0130	0.7
1B	Delta-E	59559.9814	-0.0101	0.0099	1.0
	Delta-U	-451.3610	-0.0049	0.0215	0.2
	Length	71189.4031			
(V64 dedham-gpsbaselines-2008.asc 26.10.2007 11:51:26)					
3A	Delta-N	477.1631	-0.0072	0.0124	0.6
CHS12A	Delta-E	-1433.9884	0.0044	0.0111	0.4
	Delta-U	-5.7856	-0.0113	0.0295	0.4
	Length	1511.3044			
(V54 dedham-gpsbaselines-2008.asc 11.01.2008 12:49:16)					
2A	Delta-N	2782.3926	0.0027	0.0111	0.2
3C	Delta-E	-781.5870	0.0088	0.0082	1.1
	Delta-U	12.9636	0.0104	0.0170	0.6
	Length	2890.1133			
(V145 dedham-gpsbaselines-2008.asc 22.10.2007 09:55:46)					
CTPU	Delta-N	38608.5684	-0.0018	0.0100	0.2
CHS4A	Delta-E	56883.8134	-0.0030	0.0099	0.3
	Delta-U	-396.8446	-0.0135	0.0264	0.5
	Length	68749.8892			
(V162 dedham-gpsbaselines-2008.asc 04.09.2007 12:09:56)					
DH11	Delta-N	2016.3599	0.0038	0.0078	0.5
1A	Delta-E	-1845.4953	-0.0133	0.0077	1.7
	Delta-U	-8.3894	-0.0016	0.0119	0.1
	Length	2733.4284			
(V123 dedham-gpsbaselines-2008.asc 29.08.2007 08:01:56)					
6C	Delta-N	-35860.4110	0.0038	0.0172	0.2
CTPU	Delta-E	-60562.8099	0.0057	0.0140	0.4
	Delta-U	-345.4729	0.0117	0.0440	0.3
	Length	70384.2480			
(V67 dedham-gpsbaselines-2008.asc 16.07.2007 13:49:36)					
3B	Delta-N	-3166.3845	-0.0010	0.0122	0.1
6B	Delta-E	-536.9278	-0.0050	0.0097	0.5
	Delta-U	3.8626	-0.0118	0.0191	0.6
	Length	3211.5880			
(V12 dedham-gpsbaselines-2008.asc 22.10.2007 09:55:46)					
10924A	Delta-N	72.9657	-0.0007	0.0078	0.1
CHS4A	Delta-E	193.9197	0.0119	0.0078	1.5
	Delta-U	-5.8116	-0.0046	0.0139	0.3
	Length	207.2743			
(V25 dedham-gpsbaselines-2008.asc 17.09.2007 07:45:06)					
1A	Delta-N	-74.4495	-0.0123	0.0117	1.1
61E	Delta-E	469.7789	-0.0022	0.0097	0.2
	Delta-U	7.8277	-0.0019	0.0296	0.1
	Length	475.7060			
(V113 dedham-gpsbaselines-2008.asc 24.08.2007 12:06:06)					
6A	Delta-N	10202.9597	0.0010	0.0106	0.1
DH7	Delta-E	-3066.0678	-0.0027	0.0093	0.3
	Delta-U	-3.5279	0.0122	0.0181	0.7
	Length	10653.6929			
(V49 dedham-gpsbaselines-2008.asc 27.08.2007 10:00:06)					
2A	Delta-N	189.1346	0.0014	0.0090	0.2
DH11	Delta-E	-452.3313	-0.0044	0.0081	0.5

	Delta-U	20.7512	-0.0114	0.0112	1.0
	Length	490.7200			
(V193 dedham-gpsbaselines-2008.asc 25.10.2007 07:31:46)					
acu5	Delta-N	56162.8962	-0.0004	0.0150	0.0
1A	Delta-E	-23307.8422	0.0121	0.0138	0.9
	Delta-U	-295.6331	-0.0023	0.0310	0.1
	Length	60808.0078			
(V130 dedham-gpsbaselines-2008.asc 24.10.2007 09:57:16)					
CHS12A	Delta-N	-3393.6515	0.0013	0.0075	0.2
DH11	Delta-E	1796.0930	0.0012	0.0075	0.2
	Delta-U	7.4710	0.0116	0.0121	1.0
	Length	3839.6454			
(V16 dedham-gpsbaselines-2008.asc 10.07.2007 11:47:46)					
1A	Delta-N	2376.0002	0.0037	0.0115	0.3
4A	Delta-E	-383.8702	-0.0002	0.0085	0.0
	Delta-U	-0.7646	-0.0109	0.0222	0.5
	Length	2406.8099			
(V31 dedham-gpsbaselines-2008.asc 11.07.2007 11:49:26)					
1B	Delta-N	619.3503	-0.0022	0.0093	0.2
3C	Delta-E	1354.2412	-0.0032	0.0077	0.4
	Delta-U	-1.2304	0.0108	0.0132	0.8
	Length	1489.1492			
(V186 dedham-gpsbaselines-2008.asc 22.10.2007 09:55:46)					
acu5	Delta-N	55768.7024	0.0072	0.0100	0.7
CHS4A	Delta-E	-25827.2367	0.0057	0.0100	0.6
	Delta-U	-272.3587	-0.0065	0.0267	0.2
	Length	61459.4867			
(V52 dedham-gpsbaselines-2008.asc 26.10.2007 07:46:16)					
2A	Delta-N	3583.3551	-0.0108	0.0091	1.2
CHS12A	Delta-E	-2247.3365	-0.0010	0.0083	0.1
	Delta-U	10.7376	0.0027	0.0133	0.2
	Length	4229.7837			
(V154 dedham-gpsbaselines-2008.asc 25.10.2007 11:34:46)					
CTPU	Delta-N	39032.2238	-0.0017	0.0131	0.1
1A	Delta-E	59397.9283	0.0026	0.0135	0.2
	Delta-U	-451.8115	0.0104	0.0310	0.3
	Length	71076.2444			
(V10 dedham-gpsbaselines-2008.asc 17.09.2007 13:35:36)					
10924A	Delta-N	2786.2048	-0.0107	0.0153	0.7
4B	Delta-E	1956.1565	-0.0020	0.0131	0.2
	Delta-U	-26.0069	-0.0004	0.0314	0.0
	Length	3404.4327			
(V161 dedham-gpsbaselines-2008.asc 27.08.2007 09:55:11)					
DH11	Delta-N	1941.7897	-0.0027	0.0084	0.3
61E	Delta-E	-1375.7383	0.0012	0.0078	0.2
	Delta-U	-0.4024	0.0104	0.0102	1.0
	Length	2379.7485			
(V17 dedham-gpsbaselines-2008.asc 11.07.2007 10:01:16)					
1A	Delta-N	638.0526	0.0041	0.0106	0.4
3B	Delta-E	1483.8396	-0.0079	0.0088	0.9
	Delta-U	2.4739	0.0057	0.0184	0.3
	Length	1615.2081			
(V79 dedham-gpsbaselines-2008.asc 16.07.2007 11:47:16)					
4A	Delta-N	-1737.8467	-0.0076	0.0124	0.6
3B	Delta-E	1867.8049	-0.0004	0.0083	0.1
	Delta-U	2.4774	-0.0073	0.0206	0.4
	Length	2551.2374			
(V71 dedham-gpsbaselines-2008.asc 12.07.2007 07:57:16)					
3C	Delta-N	-619.0895	0.0029	0.0079	0.4
1B	Delta-E	-1354.3607	-0.0060	0.0079	0.8
	Delta-U	0.8830	-0.0081	0.0111	0.7
	Length	1489.1492			
(V32 dedham-gpsbaselines-2008.asc 11.07.2007 11:49:26)					
1B	Delta-N	-149.4440	-0.0072	0.0131	0.5
5A	Delta-E	-824.6038	-0.0030	0.0087	0.3
	Delta-U	3.1497	-0.0065	0.0256	0.3

	Length	838.0423			
(V9 dedham-gpsbaselines-2008.asc 14.09.2007 13:34:56)					
10924A	Delta-N	-2186.7520	-0.0054	0.0101	0.5
6C	Delta-E	3546.4629	-0.0083	0.0098	0.8
	Delta-U	-23.3936	-0.0022	0.0191	0.1
	Length	4166.5130			
(V204 dedham-gpsbaselines-2008.asc 22.10.2007 07:53:16)					
zbw1	Delta-N	-54519.2688	0.0003	0.0190	0.0
10924A	Delta-E	22959.3074	-0.0069	0.0149	0.5
	Delta-U	-278.1166	0.0073	0.0378	0.2
	Length	59157.0606			
(V81 dedham-gpsbaselines-2008.asc 24.07.2007 09:34:26)					
4A	Delta-N	-66.1947	-0.0060	0.0105	0.6
4B	Delta-E	-370.8189	-0.0023	0.0093	0.3
	Delta-U	10.5056	0.0074	0.0228	0.3
	Length	376.8272			
(V15 dedham-gpsbaselines-2008.asc 22.10.2007 12:00:16)					
10924A	Delta-N	-1538.7455	0.0028	0.0078	0.4
CHS9A	Delta-E	4538.3317	0.0061	0.0077	0.8
	Delta-U	-29.2179	0.0070	0.0108	0.6
	Length	4792.1859			
(V26 dedham-gpsbaselines-2008.asc 25.10.2007 08:50:16)					
1A	Delta-N	-402.7312	0.0013	0.0086	0.2
CHS4A	Delta-E	-2517.9846	0.0058	0.0086	0.7
	Delta-U	28.9874	0.0074	0.0131	0.6
	Length	2550.1528			
(V118 dedham-gpsbaselines-2008.asc 10.01.2008 08:31:46)					
6A	Delta-N	-115.1530	-0.0024	0.0108	0.2
6B	Delta-E	-68.5946	0.0088	0.0097	0.9
	Delta-U	-1.2858	0.0021	0.0237	0.1
	Length	134.0413			
(V35 dedham-gpsbaselines-2008.asc 13.07.2007 13:03:06)					
1B	Delta-N	-2371.1953	0.0078	0.0136	0.6
6A	Delta-E	854.4102	-0.0007	0.0115	0.1
	Delta-U	6.4268	0.0047	0.0218	0.2
	Length	2520.4414			
(V153 dedham-gpsbaselines-2008.asc 25.10.2007 07:31:46)					
CTPU	Delta-N	39032.2238	-0.0041	0.0147	0.3
1A	Delta-E	59397.9283	-0.0064	0.0135	0.5
	Delta-U	-451.8115	-0.0048	0.0299	0.2
	Length	71076.2444			
(V114 dedham-gpsbaselines-2008.asc 27.08.2007 07:50:06)					
6A	Delta-N	397.2841	0.0004	0.0086	0.0
DH11	Delta-E	829.9250	0.0036	0.0080	0.4
	Delta-U	-0.8983	0.0083	0.0150	0.6
	Length	920.1146			
(V83 dedham-gpsbaselines-2008.asc 23.08.2007 10:00:56)					
4A	Delta-N	-2427.2316	0.0018	0.0128	0.1
5B	Delta-E	-586.0643	-0.0087	0.0123	0.7
	Delta-U	5.5205	0.0011	0.0239	0.0
	Length	2496.9892			
(V135 dedham-gpsbaselines-2008.asc 15.08.2007 11:53:26)					
CTPU	Delta-N	46803.8836	0.0000	0.0101	0.0
DH7	Delta-E	57281.0035	0.0052	0.0093	0.6
	Delta-U	-470.8662	0.0070	0.0168	0.4
	Length	73972.5530			
(V33 dedham-gpsbaselines-2008.asc 11.07.2007 12:41:16)					
1B	Delta-N	42.1104	-0.0025	0.0080	0.3
1A	Delta-E	-161.6933	-0.0080	0.0076	1.1
	Delta-U	-1.7119	-0.0008	0.0098	0.1
	Length	167.0956			
(V103 dedham-gpsbaselines-2008.asc 29.08.2007 12:01:36)					
61E	Delta-N	-38452.7135	0.0034	0.0121	0.3
CTPU	Delta-E	-60197.2341	0.0018	0.0104	0.2
	Delta-U	-351.7267	0.0074	0.0259	0.3
	Length	71431.3788			

(V133 dedham-gpsbaselines-2008.asc 16.07.2007 09:02:46)					
CTPU	Delta-N	41404.8707	0.0010	0.0136	0.1
4A	Delta-E	58994.0137	0.0079	0.0106	0.7
	Delta-U	-463.3725	-0.0024	0.0259	0.1
	Length	72075.4583			
(V99 dedham-gpsbaselines-2008.asc 24.08.2007 08:11:46)					
61D	Delta-N	-214.5677	0.0016	0.0229	0.1
5A	Delta-E	-93.2769	0.0007	0.0150	0.0
	Delta-U	0.3176	-0.0081	0.0318	0.3
	Length	233.9658			
(V70 dedham-gpsbaselines-2008.asc 11.07.2007 09:50:46)					
3C	Delta-N	60.7846	0.0054	0.0094	0.6
3B	Delta-E	-32.0690	-0.0043	0.0082	0.5
	Delta-U	2.0248	-0.0035	0.0158	0.2
	Length	68.7553			
(V82 dedham-gpsbaselines-2008.asc 24.07.2007 13:18:16)					
4A	Delta-N	-1737.8467	0.0068	0.0108	0.6
3B	Delta-E	1867.8049	0.0004	0.0090	0.0
	Delta-U	2.4774	-0.0037	0.0162	0.2
	Length	2551.2374			
(V22 dedham-gpsbaselines-2008.asc 27.08.2007 11:59:56)					
1A	Delta-N	-2015.8781	0.0019	0.0073	0.3
DH11	Delta-E	1846.0266	-0.0023	0.0073	0.3
	Delta-U	7.2174	-0.0068	0.0086	0.8
	Length	2733.4284			
(V164 dedham-gpsbaselines-2008.asc 06.09.2007 07:36:16)					
DH11	Delta-N	-36499.2571	0.0067	0.0105	0.6
CTPU	Delta-E	-61580.4160	0.0022	0.0093	0.2
	Delta-U	-353.3668	0.0008	0.0217	0.0
	Length	71585.3915			
(V124 dedham-gpsbaselines-2008.asc 29.08.2007 08:01:56)					
6C	Delta-N	458.6978	0.0049	0.0097	0.5
2A	Delta-E	1464.7757	0.0019	0.0088	0.2
	Delta-U	-26.4223	-0.0045	0.0195	0.2
	Length	1535.1448			
(V18 dedham-gpsbaselines-2008.asc 11.07.2007 10:01:16)					
1A	Delta-N	577.2747	-0.0030	0.0103	0.3
3C	Delta-E	1515.9212	-0.0034	0.0087	0.4
	Delta-U	0.4470	0.0052	0.0186	0.3
	Length	1622.1169			
(V80 dedham-gpsbaselines-2008.asc 24.07.2007 09:33:46)					
4A	Delta-N	-2418.0779	-0.0040	0.0089	0.5
1B	Delta-E	545.6967	0.0007	0.0082	0.1
	Delta-U	1.5366	0.0054	0.0169	0.3
	Length	2478.8884			
(V37 dedham-gpsbaselines-2008.asc 24.07.2007 09:34:26)					
1B	Delta-N	2351.9575	-0.0018	0.0111	0.2
4B	Delta-E	-916.3338	-0.0024	0.0094	0.3
	Delta-U	7.9971	0.0061	0.0246	0.2
	Length	2524.1703			
(V13 dedham-gpsbaselines-2008.asc 22.10.2007 11:52:16)					
10924A	Delta-N	-55600.0587	-0.0050	0.0096	0.5
acu5	Delta-E	26226.2046	-0.0040	0.0094	0.4
	Delta-U	-326.7459	0.0016	0.0174	0.1
	Length	61475.9067			
(V27 dedham-gpsbaselines-2008.asc 25.10.2007 09:50:16)					
1A	Delta-N	1377.7590	-0.0056	0.0078	0.7
CHS12A	Delta-E	49.9094	0.0030	0.0079	0.4
	Delta-U	-0.9742	0.0013	0.0146	0.1
	Length	1378.6630			
(V50 dedham-gpsbaselines-2008.asc 27.08.2007 10:00:06)					
2A	Delta-N	2131.0127	0.0001	0.0102	0.0
61E	Delta-E	-1827.9447	-0.0045	0.0089	0.5
	Delta-U	20.1936	0.0044	0.0144	0.3
	Length	2807.6689			
(V104 dedham-gpsbaselines-2008.asc 29.08.2007 12:01:36)					

61E	Delta-N	-2130.5306	0.0004	0.0083	0.1
2A	Delta-E	1828.4925	0.0019	0.0079	0.2
	Delta-U	-21.4303	0.0059	0.0132	0.4
	Length	2807.6689			
(V92 dedham-gpsbaselines-2008.asc 27.08.2007 07:57:41)					
5A	Delta-N	-1824.0719	-0.0002	0.0092	0.0
DH11	Delta-E	2509.1048	-0.0011	0.0079	0.1
	Delta-U	2.1348	0.0061	0.0161	0.4
	Length	3102.0718			
(V146 dedham-gpsbaselines-2008.asc 22.10.2007 12:00:16)					
CTPU	Delta-N	37031.5787	0.0007	0.0143	0.0
CHS9A	Delta-E	61240.6954	-0.0057	0.0140	0.4
	Delta-U	-449.3719	-0.0022	0.0315	0.1
	Length	71567.8876			
(V140 dedham-gpsbaselines-2008.asc 05.09.2007 08:01:46)					
CTPU	Delta-N	39032.2238	0.0006	0.0139	0.0
1A	Delta-E	59397.9283	0.0033	0.0115	0.3
	Delta-U	-451.8115	0.0042	0.0333	0.1
	Length	71076.2444			
(V36 dedham-gpsbaselines-2008.asc 17.07.2007 09:18:56)					
1B	Delta-N	2418.1195	-0.0026	0.0110	0.2
4A	Delta-E	-545.5088	0.0045	0.0095	0.5
	Delta-U	-2.5019	-0.0003	0.0203	0.0
	Length	2478.8884			
(V105 dedham-gpsbaselines-2008.asc 29.08.2007 12:01:36)					
61E	Delta-N	-400.9602	-0.0012	0.0080	0.2
10924A	Delta-E	-3181.7425	-0.0042	0.0075	0.6
	Delta-U	26.6542	0.0027	0.0118	0.2
	Length	3207.0181			
(V40 dedham-gpsbaselines-2008.asc 04.01.2008 08:30:46)					
1B	Delta-N	42.1104	-0.0045	0.0077	0.6
1A	Delta-E	-161.6933	0.0011	0.0078	0.1
	Delta-U	-1.7119	0.0020	0.0113	0.2
	Length	167.0956			
(V29 dedham-gpsbaselines-2008.asc 04.01.2008 14:28:06)					
1A	Delta-N	-191.5697	-0.0023	0.0098	0.2
5A	Delta-E	-662.9060	0.0027	0.0084	0.3
	Delta-U	4.8771	0.0020	0.0153	0.1
	Length	690.0486			
(V69 dedham-gpsbaselines-2008.asc 20.12.2007 10:10:16)					
3B	Delta-N	-60.7845	-0.0022	0.0091	0.2
3C	Delta-E	32.0692	-0.0018	0.0080	0.2
	Delta-U	-2.0255	0.0021	0.0148	0.1
	Length	68.7553			
(V1 dedham-gpsbaselines-2008.asc 15.08.2007 08:36:51)					
10924A	Delta-N	8265.1097	0.0014	0.0080	0.2
DH7	Delta-E	657.3547	0.0016	0.0075	0.2
	Delta-U	-26.6834	0.0009	0.0122	0.1
	Length	8291.2524			
(V87 dedham-gpsbaselines-2008.asc 03.01.2008 14:30:16)					
4A	Delta-N	-2567.5871	-0.0012	0.0095	0.1
5A	Delta-E	-278.8953	-0.0000	0.0080	0.0
	Delta-U	4.6999	0.0018	0.0126	0.1
	Length	2582.6940			

GPS Vector Residual Summary (Meters)
(Sorted by 3D Residual Length)

From	To	N	E	Up	2D	3D	Length	VectID
acu5	CHS1A	0.010	0.137	0.003	0.137	0.137	63730	184
zbw1	4A	-0.007	0.005	-0.124	0.009	0.124	57512	199
acu5	DH8	0.006	0.012	0.111	0.013	0.112	61848	176
acu5	DH11	0.021	0.005	0.092	0.022	0.094	58243	181
CTPU	DH8	-0.013	0.003	0.084	0.014	0.085	75933	136
acu5	CHS9A	0.011	-0.002	0.084	0.011	0.085	58250	195
CTPU	DH10	-0.004	-0.002	-0.079	0.005	0.079	69542	138

4A	zbw1	0.008	0.007	-0.072	0.011	0.073	57512	85
3A	CHS9A	0.007	0.029	-0.061	0.030	0.068	2937	63
zbw1	DH7	-0.008	-0.017	-0.062	0.018	0.065	51921	200
DH7	acu5	-0.002	-0.004	0.064	0.004	0.064	68794	168
acu5	1B	0.002	0.010	-0.056	0.010	0.057	60707	171
6A	5B	-0.002	0.028	0.049	0.028	0.056	3086	116
acu5	61E	0.016	0.008	-0.050	0.018	0.053	60559	180
DH11	zbw1	0.012	0.007	-0.050	0.013	0.052	62437	165
2A	3C	0.001	0.008	0.050	0.008	0.051	2890	43
6C	acu5	-0.009	-0.002	0.049	0.009	0.050	58030	122
CTPU	10924A	-0.006	0.001	-0.050	0.006	0.050	68548	141
3A	61E	-0.024	-0.002	-0.043	0.024	0.049	1407	61
10924A	5B	0.015	0.001	-0.046	0.015	0.049	1793	6
6B	2A	0.017	-0.042	-0.005	0.045	0.046	1389	120
CTPU	DH9	-0.008	-0.009	0.043	0.012	0.045	69965	148
CTPU	CHS1A	0.009	-0.039	-0.019	0.040	0.044	69497	149
2A	1B	0.003	0.002	0.044	0.004	0.044	3040	44
10924A	5A	0.015	-0.007	-0.040	0.017	0.044	2069	7
6A	2A	-0.014	-0.017	-0.033	0.022	0.040	1299	117
3A	DH7	-0.004	-0.016	0.035	0.017	0.039	7743	62
2B	2A	-0.019	-0.030	-0.012	0.036	0.037	263	55
DH10	acu5	-0.014	-0.024	-0.025	0.028	0.037	61473	157
10924A	2A	0.010	0.010	-0.034	0.014	0.037	5301	8
3A	4A	0.010	0.016	-0.031	0.019	0.036	2380	56
acu5	CHS12A	0.022	0.000	0.029	0.022	0.036	62062	192
6A	5A	-0.028	-0.011	0.020	0.030	0.036	2785	107
DH7	CTPU	0.010	0.007	0.034	0.012	0.036	73973	167
2A	2B	0.009	-0.009	0.033	0.013	0.036	263	47
6C	6B	-0.030	0.017	0.000	0.035	0.035	177	128
4A	4B	-0.009	-0.001	-0.032	0.009	0.033	377	86
3C	6A	0.003	-0.008	-0.032	0.009	0.033	3032	73
6C	DH9	-0.008	-0.003	0.032	0.009	0.033	2052	125
acu5	DH9	0.022	0.020	0.013	0.029	0.032	55985	190
5B	5A	0.022	0.010	0.021	0.024	0.032	338	95
acu5	10924A	0.003	0.007	0.031	0.008	0.032	61476	173
10924A	acu5	-0.019	-0.009	-0.023	0.021	0.032	61476	2
4B	1B	-0.017	0.018	-0.018	0.025	0.031	2524	88
10924A	CHS1A	0.006	-0.029	0.004	0.030	0.030	2327	11
6A	DH10	0.016	0.009	-0.024	0.019	0.030	3670	115
CTPU	CHS4A	0.000	-0.008	0.029	0.008	0.030	68750	147
zbw1	DH11	-0.008	-0.007	-0.028	0.011	0.030	62437	201
3C	3A	0.010	-0.002	0.027	0.010	0.029	325	76
61E	61F	0.005	0.015	0.024	0.015	0.029	272	102
10924A	CTPU	-0.001	-0.000	-0.029	0.001	0.029	68548	3
DH7	1A	0.001	-0.004	-0.028	0.004	0.028	8055	169
acu5	61E	-0.001	0.005	-0.028	0.006	0.028	60559	179
acu5	CHS12A	0.008	0.017	-0.020	0.019	0.028	62062	191
zbw1	CHS12A	-0.005	-0.019	0.020	0.019	0.027	58600	209
4B	5B	0.001	-0.013	-0.024	0.013	0.027	2371	89
61D	4A	0.017	0.011	-0.018	0.020	0.027	2360	98
zbw1	1B	-0.003	-0.020	-0.017	0.020	0.027	59929	197
DH10	2A	0.003	0.003	0.026	0.004	0.027	4624	160
DH9	61E	0.008	0.002	-0.025	0.009	0.026	4649	170
CTPU	61E	-0.021	-0.010	0.011	0.023	0.026	71431	139
3C	DH10	-0.000	-0.004	-0.025	0.004	0.025	3373	74
6A	3B	0.011	0.013	0.019	0.017	0.025	3087	111
10924A	CTPU	0.006	0.024	-0.003	0.025	0.025	68548	5
1A	61D	-0.010	-0.007	0.022	0.012	0.025	570	21
3B	1A	-0.001	0.022	0.011	0.022	0.025	1615	66
zbw1	CHS9A	-0.019	-0.016	-0.001	0.024	0.024	62428	207
1B	6B	-0.008	0.010	-0.020	0.013	0.024	2608	34
DH10	2A	-0.007	0.009	0.021	0.012	0.024	4624	159
acu5	CHS4A	0.016	0.003	0.017	0.016	0.024	61459	188
acu5	6A	0.010	0.000	0.021	0.010	0.024	58190	182
2A	CHS9A	0.012	0.005	0.019	0.013	0.024	509	53
DH7	DH10	-0.003	-0.004	-0.023	0.005	0.023	7850	166

10924A	DH10	-0.004	0.003	-0.022	0.005	0.023	1007	4
2A	6C	0.008	-0.008	-0.020	0.011	0.023	1535	46
acu5	10924A	0.014	0.003	-0.017	0.015	0.023	61476	185
3C	DH11	0.005	-0.003	-0.022	0.006	0.022	2614	75
zbw1	6A	-0.014	-0.016	-0.004	0.022	0.022	62438	202
CTPU	6C	0.005	-0.013	-0.016	0.014	0.022	70384	132
acu5	DH7	0.013	0.016	0.003	0.021	0.021	68794	174
DH11	1A	-0.001	-0.002	0.021	0.002	0.021	2733	163
1B	61D	0.009	-0.001	0.019	0.009	0.021	734	42
zbw1	CHS4A	-0.014	-0.008	-0.014	0.016	0.021	59165	206
4A	CTPU	0.004	0.003	-0.020	0.005	0.021	72075	84
2A	5A	-0.020	-0.004	0.006	0.020	0.021	3581	48
6A	3C	-0.010	-0.002	0.018	0.010	0.021	3032	110
zbw1	6C	-0.003	-0.019	0.007	0.019	0.020	62588	198
6B	2B	-0.012	-0.012	-0.011	0.017	0.020	1187	121
6C	2B	-0.016	-0.007	-0.009	0.018	0.020	1320	129
3C	4B	0.014	-0.009	0.011	0.017	0.020	2856	72
CTPU	CHS12A	-0.004	0.010	-0.016	0.011	0.020	71874	150
acu5	DH10	0.005	0.012	-0.015	0.013	0.019	61473	178
zbw1	1A	-0.012	-0.014	-0.001	0.019	0.019	59822	203
DH10	5A	0.012	0.013	0.008	0.017	0.019	1142	158
1A	CHS9A	-0.006	-0.003	-0.018	0.007	0.019	2720	28
CTPU	DH9	0.010	0.012	0.011	0.015	0.019	69965	151
61D	10924A	0.009	-0.014	0.008	0.017	0.018	2200	101
6A	4A	0.005	0.011	0.014	0.012	0.018	4990	112
5A	61E	-0.007	-0.009	0.014	0.012	0.018	1139	93
1B	5B	0.003	-0.009	-0.015	0.010	0.018	1132	41
CTPU	10924A	-0.003	0.009	-0.015	0.009	0.018	68548	134
5A	4B	-0.006	-0.005	-0.016	0.008	0.018	2503	94
6C	6A	0.000	-0.000	-0.017	0.000	0.017	310	127
3B	3A	-0.015	0.001	-0.008	0.015	0.017	263	68
3A	1A	-0.010	-0.010	-0.008	0.014	0.017	1736	57
CTPU	CHS12A	0.004	-0.014	0.006	0.015	0.016	71874	152
acu5	CHS9A	0.013	0.001	0.009	0.013	0.016	58250	187
CTPU	6A	0.001	-0.006	-0.015	0.006	0.016	70669	142
1B	4A	-0.003	-0.002	-0.015	0.004	0.016	2479	30
4A	6B	-0.009	-0.005	-0.011	0.010	0.015	5082	78
1A	3C	-0.003	0.001	0.014	0.003	0.014	1622	23
10924A	CTPU	0.007	0.003	0.012	0.007	0.014	68548	14
3A	3C	-0.005	-0.003	-0.013	0.006	0.014	325	65
CTPU	1B	-0.009	-0.010	-0.005	0.013	0.014	71189	131
3A	CHS12A	-0.007	0.004	-0.011	0.008	0.014	1511	64
2A	3C	0.003	0.009	0.010	0.009	0.014	2890	54
CTPU	CHS4A	-0.002	-0.003	-0.013	0.004	0.014	68750	145
DH11	1A	0.004	-0.013	-0.002	0.014	0.014	2733	162
6C	CTPU	0.004	0.006	0.012	0.007	0.014	70384	123
3B	6B	-0.001	-0.005	-0.012	0.005	0.013	3212	67
10924A	CHS4A	-0.001	0.012	-0.005	0.012	0.013	207	12
1A	61E	-0.012	-0.002	-0.002	0.013	0.013	476	25
6A	DH7	0.001	-0.003	0.012	0.003	0.013	10654	113
2A	DH11	0.001	-0.004	-0.011	0.005	0.012	491	49
acu5	1A	-0.000	0.012	-0.002	0.012	0.012	60808	193
CHS12A	DH11	0.001	0.001	0.012	0.002	0.012	3840	130
1A	4A	0.004	-0.000	-0.011	0.004	0.012	2407	16
1B	3C	-0.002	-0.003	0.011	0.004	0.011	1489	31
acu5	CHS4A	0.007	0.006	-0.006	0.009	0.011	61459	186
2A	CHS12A	-0.011	-0.001	0.003	0.011	0.011	4230	52
CTPU	1A	-0.002	0.003	0.010	0.003	0.011	71076	154
10924A	4B	-0.011	-0.002	-0.000	0.011	0.011	3404	10
DH11	61E	-0.003	0.001	0.010	0.003	0.011	2380	161
1A	3B	0.004	-0.008	0.006	0.009	0.011	1615	17
4A	3B	-0.008	-0.000	-0.007	0.008	0.011	2551	79
3C	1B	0.003	-0.006	-0.008	0.007	0.010	1489	71
1B	5A	-0.007	-0.003	-0.007	0.008	0.010	838	32
10924A	6C	-0.005	-0.008	-0.002	0.010	0.010	4167	9
zbw1	10924A	0.000	-0.007	0.007	0.007	0.010	59157	204

4A	4B	-0.006	-0.002	0.007	0.006	0.010	377	81
10924A	CHS9A	0.003	0.006	0.007	0.007	0.010	4792	15
1A	CHS4A	0.001	0.006	0.007	0.006	0.010	2550	26
6A	6B	-0.002	0.009	0.002	0.009	0.009	134	118
1B	6A	0.008	-0.001	0.005	0.008	0.009	2520	35
CTPU	1A	-0.004	-0.006	-0.005	0.008	0.009	71076	153
6A	DH11	0.000	0.004	0.008	0.004	0.009	920	114
4A	5B	0.002	-0.009	0.001	0.009	0.009	2497	83
CTPU	DH7	0.000	0.005	0.007	0.005	0.009	73973	135
1B	1A	-0.002	-0.008	-0.001	0.008	0.008	167	33
61E	CTPU	0.003	0.002	0.007	0.004	0.008	71431	103
CTPU	4A	0.001	0.008	-0.002	0.008	0.008	72075	133
61D	5A	0.002	0.001	-0.008	0.002	0.008	234	99
3C	3B	0.005	-0.004	-0.004	0.007	0.008	69	70
4A	3B	0.007	0.000	-0.004	0.007	0.008	2551	82
1A	DH11	0.002	-0.002	-0.007	0.003	0.007	2733	22
DH11	CTPU	0.007	0.002	0.001	0.007	0.007	71585	164
6C	2A	0.005	0.002	-0.005	0.005	0.007	1535	124
1A	3C	-0.003	-0.003	0.005	0.005	0.007	1622	18
4A	1B	-0.004	0.001	0.005	0.004	0.007	2479	80
1B	4B	-0.002	-0.002	0.006	0.003	0.007	2524	37
10924A	acu5	-0.005	-0.004	0.002	0.006	0.007	61476	13
1A	CHS12A	-0.006	0.003	0.001	0.006	0.007	1379	27
2A	61E	0.000	-0.004	0.004	0.004	0.006	2808	50
61E	2A	0.000	0.002	0.006	0.002	0.006	2808	104
5A	DH11	-0.000	-0.001	0.006	0.001	0.006	3102	92
CTPU	CHS9A	0.001	-0.006	-0.002	0.006	0.006	71568	146
CTPU	1A	0.001	0.003	0.004	0.003	0.005	71076	140
1B	4A	-0.003	0.004	-0.000	0.005	0.005	2479	36
61E	10924A	-0.001	-0.004	0.003	0.004	0.005	3207	105
1B	1A	-0.005	0.001	0.002	0.005	0.005	167	40
1A	5A	-0.002	0.003	0.002	0.004	0.004	690	29
3B	3C	-0.002	-0.002	0.002	0.003	0.004	69	69
10924A	DH7	0.001	0.002	0.001	0.002	0.002	8291	1
4A	5A	-0.001	-0.000	0.002	0.001	0.002	2583	87

Adjusted Bearings (DMS) and Horizontal Distances (Meters)

(Relative Confidence of Bearing is in Seconds)

From	To	Grid Bearing	Grid Dist Grnd Dist	95% RelConfidence		
				Brg	Dist	PPM
10924A	2A	S71-10-50.68E	5300.166322 5300.363258	0.32	0.007506	1.4161
10924A	4B	N34-52-19.79E	3404.208447 3404.340207	0.60	0.010471	3.0759
10924A	5A	N81-53-07.49E	2068.536318 2068.615896	1.04	0.008035	3.8846
10924A	5B	N76-05-02.26E	1792.752308 1792.821375	1.37	0.009595	5.3521
10924A	61D	N76-40-33.17E	2199.490147 2199.574678	1.39	0.013234	6.0168
10924A	61E	N82-35-29.68E	3206.776467 3206.900527	0.61	0.008209	2.5599
10924A	6C	S58-32-31.15E	4166.291242 4166.454747	0.40	0.010164	2.4396
10924A	CHS1A	N10-46-22.84W	2327.204796 2327.295688	1.66	0.018131	7.7909
10924A	CHS4A	N69-10-49.02E	207.184505 207.192878	10.17	0.002664	12.8594
10924A	CHS9A	S71-28-13.80E	4791.921621 4792.107480	0.46	0.010193	2.1271
10924A	CTPU	S56-03-20.05W	68545.791766 68548.121472	0.02	0.005307	0.0774
10924A	DH10	N65-11-25.77E	1006.354656 1006.393693	2.03	0.009088	9.0305
10924A	DH7	N04-20-50.50E	8290.906897 8291.225044	0.20	0.009427	1.1371
10924A	acu5	S25-27-11.62E	61474.343129 61475.899332	0.02	0.006250	0.1017
10924A	zbw1	N22-50-58.39W	59155.756743 59157.060503	0.02	0.006271	0.1060
1A	1B	S75-37-33.25E	167.080921 167.086839	9.16	0.002454	14.6889
1A	3A	N58-31-01.29E	1735.989135 1736.050925	1.19	0.010905	6.2816
1A	3B	N66-30-36.59E	1615.148640 1615.205894	0.88	0.008552	5.2949
1A	3C	N68-55-50.49E	1622.059561 1622.116810	0.86	0.006755	4.1645
1A	4A	N09-23-58.49W	2406.725498 2406.809914	0.53	0.008014	3.3299
1A	5A	S73-39-33.93W	690.006528 690.031148	2.81	0.007743	11.2218
1A	61D	N87-54-38.85W	570.054999 570.075317	5.53	0.012007	21.0628
1A	61E	S81-13-00.73E	475.624243 475.641319	4.14	0.007826	16.4551
1A	CHS12A	N01-51-09.18E	1378.614339 1378.662755	1.24	0.009034	6.5532
1A	CHS4A	S80-41-27.14W	2549.886260 2549.982169	0.83	0.006840	2.6823
1A	CHS9A	S42-23-11.02E	2719.886411 2719.984359	0.81	0.010021	3.6842
1A	CTPU	S56-57-01.36W	71074.025746 71076.222370	0.02	0.005801	0.0816
1A	DH11	S42-42-13.54E	2733.318848 2733.417262	0.51	0.006588	2.4103
1A	DH7	N14-58-35.60W	8054.540352 8054.826750	0.21	0.009361	1.1622
1A	acu5	S22-56-59.76E	60806.627081	0.02	0.006033	0.0992

			60808.007631			
1A	zbw1	N25-25-23.23W	59820.439045	0.02	0.005985	0.1001
			59821.578563			
1B	2A	S44-52-30.58E	3040.138319	0.54	0.007490	2.4638
			3040.243266			
1B	3C	N65-12-00.12E	1489.096097	0.99	0.006946	4.6644
			1489.148857			
1B	4A	N12-56-09.89W	2478.800341	0.50	0.007640	3.0820
			2478.887625			
1B	4B	N21-30-34.31W	2524.065028	0.56	0.010754	4.2606
			2524.156004			
1B	5A	S79-30-15.48W	838.006171	2.44	0.007504	8.9549
			838.036186			
1B	5B	S89-19-03.77W	1131.757422	2.17	0.007913	6.9915
			1131.798018			
1B	61D	N85-08-07.13W	734.171273	4.23	0.011818	16.0974
			734.197541			
1B	6A	S20-02-20.25E	2520.340611	0.58	0.008304	3.2948
			2520.431919			
1B	6B	S17-45-46.40E	2607.488716	0.54	0.008011	3.0725
			2607.582931			
1B	CTPU	S57-02-57.85W	71187.174205	0.02	0.006231	0.0875
			71189.382420			
1B	acu5	S22-49-28.31E	60705.467650	0.02	0.006770	0.1115
			60706.854395			
1B	zbw1	N25-32-45.07W	59927.520420	0.02	0.006689	0.1116
			59928.669956			
2A	2B	S40-14-58.76W	262.862247	11.93	0.002880	10.9569
			262.871003			
2A	3C	N15-55-51.92W	2889.981799	0.55	0.007984	2.7627
			2890.081216			
2A	5A	N56-00-42.33W	3580.763854	0.60	0.008545	2.3865
			3580.888381			
2A	61E	N40-51-47.52W	2807.493528	0.66	0.008610	3.0669
			2807.591803			
2A	6A	S80-32-45.14W	1299.040396	1.31	0.007654	5.8918
			1299.086100			
2A	6B	S76-18-25.59W	1389.002152	1.15	0.007000	5.0396
			1389.050886			
2A	6C	S72-22-59.04W	1534.866000	1.26	0.007907	5.1514
			1534.920571			
2A	CHS12A	N32-20-06.30W	4229.621555	0.45	0.009644	2.2802
			4229.766308			
2A	CHS9A	N68-27-04.45W	508.883315	4.60	0.010561	20.7526
			508.901181			
2A	DH10	N62-32-40.28W	4624.171597	0.44	0.008975	1.9409
			4624.333830			
2A	DH11	N67-32-57.76W	490.263047	3.49	0.007745	15.7971
			490.280257			
2B	6B	S83-47-56.46W	1186.627062	2.26	0.011590	9.7672
			1186.668491			
2B	6C	S78-27-52.70W	1319.698294	2.19	0.011235	8.5136
			1319.744987			
3A	3B	S00-11-14.13E	262.837076	8.45	0.011419	43.4464
			262.846476			
3A	3C	S05-51-19.86E	325.183138	6.36	0.011008	33.8507
			325.194717			
3A	4A	N51-55-23.05W	2380.013193	1.04	0.009985	4.1955
			2380.097393			
3A	61E	S45-53-50.02W	1407.056279	1.65	0.013160	9.3526
			1407.107237			
3A	CHS12A	N71-49-45.07W	1511.240418	1.74	0.010945	7.2421
			1511.293954			
3A	CHS9A	S06-54-19.78E	2936.866593	0.91	0.013065	4.4485
			2936.973296			
3A	DH7	N27-23-27.23W	7742.333726	0.32	0.012022	1.5528

			7742.611255			
3B	3C	S28-02-59.32E	68.723033	26.22	0.002278	33.1528
			68.725470			
3B	4A	N47-16-59.40W	2551.145802	0.74	0.007732	3.0306
			2551.235690			
3B	6A	S08-29-30.84W	3086.855233	0.57	0.008723	2.8258
			3086.967168			
3B	6B	S09-23-24.00W	3211.468447	0.53	0.008690	2.7058
			3211.584592			
3C	4B	N52-52-38.21W	2856.019377	0.75	0.009755	3.4156
			2856.121933			
3C	6A	S09-15-54.64W	3031.917649	0.52	0.008101	2.6720
			3032.027122			
3C	DH10	S78-56-26.94W	3372.736163	0.62	0.009401	2.7872
			3372.857568			
3C	DH11	S07-28-36.14E	2613.984223	0.61	0.008069	3.0868
			2614.078390			
4A	4B	S79-39-35.28W	376.667015	6.02	0.003121	8.2848
			376.680455			
4A	5A	S05-58-49.04W	2582.597094	0.59	0.010479	4.0575
			2582.688711			
4A	5B	S13-21-19.81W	2496.893298	0.64	0.012562	5.0309
			2496.982003			
4A	61D	S04-17-28.84W	2360.246698	1.07	0.015548	6.5874
			2360.330332			
4A	6A	S16-31-01.44E	4989.541207	0.31	0.008740	1.7517
			4989.720293			
4A	6B	S15-24-38.10E	5081.780438	0.29	0.008480	1.6688
			5081.962350			
4A	CTPU	S55-11-51.10W	72073.207008	0.02	0.006800	0.0943
			72075.436325			
4A	zbw1	N26-05-05.94W	57511.055894	0.02	0.007351	0.1278
			57512.125318			
4B	5A	S02-19-24.86E	2502.991140	0.64	0.013132	5.2467
			2503.082016			
4B	5B	S04-59-24.17W	2370.742859	0.72	0.014158	5.9720
			2370.829057			
5A	5B	N65-39-42.18W	337.704473	8.56	0.003076	9.1079
			337.716675			
5A	61D	N23-16-41.14E	233.957137	10.82	0.017133	73.2326
			233.965570			
5A	61E	N83-52-28.11E	1138.682682	2.10	0.009384	8.2407
			1138.724015			
5A	6A	S37-18-08.47E	2784.725763	0.71	0.009609	3.4508
			2784.827366			
5A	DH10	N83-26-52.32W	1141.807381	2.24	0.009612	8.4186
			1141.848933			
5A	DH11	S54-12-00.86E	3101.957543	0.67	0.008420	2.7145
			3102.070450			
5B	6A	S40-16-54.66E	3086.072619	0.78	0.010139	3.2855
			3086.185377			
61E	61F	S88-34-07.39E	271.591439	46.71	0.045554	167.7308
			271.601159			
61E	CTPU	S57-12-17.40W	71429.115320	0.02	0.008174	0.1144
			71431.362661			
61E	DH11	S35-33-15.47E	2379.661373	0.79	0.008988	3.7771
			2379.748534			
61E	DH9	S12-37-37.85E	4649.091875	0.56	0.013609	2.9273
			4649.255041			
61E	acu5	S22-34-01.92E	60557.817639	0.03	0.008366	0.1382
			60559.230968			
6A	6B	S30-33-04.11W	134.030240	7.65	0.002026	15.1186
			134.035171			
6A	6C	S35-51-09.03W	309.862413	7.25	0.002899	9.3557
			309.873958			
6A	CTPU	S59-02-29.76W	70666.721876	0.02	0.006651	0.0941

6A	DH10	N50-16-09.07W	70668.940529 3669.371852 3669.506866	0.57	0.009948	2.7111
6A	DH11	N64-11-21.36E	920.080351 920.114212	1.92	0.007829	8.5093
6A	DH7	N16-57-22.67W	10653.303734 10653.691491	0.18	0.010063	0.9446
6A	acu5	S22-56-42.49E	58188.233971 58189.588745	0.02	0.007642	0.1313
6A	zbw1	N25-19-26.05W	62436.697257 62437.950343	0.02	0.007648	0.1225
6B	6C	S39-52-05.07W	176.839619 176.846191	7.55	0.002131	12.0502
6C	CTPU	S59-08-27.34W	70381.998910 70384.235079	0.03	0.007055	0.1002
6C	DH9	S18-14-35.27E	2052.023021 2052.096140	1.26	0.014066	6.8549
6C	acu5	S23-12-24.59E	58028.311247 58029.681853	0.03	0.009346	0.1611
6C	zbw1	N25-04-31.36W	62586.675162 62587.957025	0.02	0.009400	0.1502
CHS12A	CTPU	S56-02-56.39W	71871.730996 71873.947817	0.02	0.007904	0.1100
CHS12A	DH11	S28-06-45.20E	3839.498043 3839.635676	0.48	0.009207	2.3981
CHS12A	acu5	S22-24-57.64E	62060.771652 62062.180343	0.03	0.008237	0.1327
CHS12A	zbw1	N26-02-27.12W	58598.516089 58599.613518	0.03	0.008218	0.1402
CHS1A	CTPU	S54-17-28.93W	69494.449175 69496.699753	0.05	0.020229	0.2911
CHS1A	acu5	S24-55-22.73E	63728.306103 63729.817536	0.06	0.017687	0.2775
CHS4A	CTPU	S56-05-41.20W	68747.580318 68749.884129	0.03	0.005851	0.0851
CHS4A	acu5	S25-15-38.54E	61457.953321 61459.481955	0.02	0.009258	0.1506
CHS4A	zbw1	N23-03-00.25W	59163.457509 59164.733168	0.02	0.009281	0.1569
CHS9A	CTPU	S59-05-58.51W	71565.634974 71567.871452	0.03	0.010151	0.1418
CHS9A	acu5	S22-03-34.68E	58248.776000 58250.132510	0.04	0.009850	0.1691
CHS9A	zbw1	N26-09-05.27W	62427.032410 62428.274992	0.03	0.009824	0.1574
CTPU	DH10	N56-11-13.95E	69539.566588 69541.779951	0.03	0.008899	0.1280
CTPU	DH11	N59-06-27.63E	71583.138932 71585.375309	0.02	0.006558	0.0916
CTPU	DH7	N51-00-31.20E	73970.170820 73972.541100	0.02	0.007878	0.1065
CTPU	DH8	N56-56-51.38E	75930.674618 75932.877326	0.06	0.023025	0.3032
CTPU	DH9	N60-46-51.90E	69962.470290 69964.537949	0.04	0.011808	0.1688
DH10	DH7	N02-04-50.29W	7849.958581 7850.243352	0.26	0.011472	1.4615
DH10	acu5	S24-30-54.89E	61471.274054 61472.707682	0.03	0.009254	0.1505
DH11	acu5	S22-02-27.92E	58241.481659 58242.837679	0.02	0.006837	0.1174
DH11	zbw1	N26-10-05.66W	62435.658831 62436.901112	0.02	0.006803	0.1090
DH7	acu5	S22-01-09.63E	68792.374660 68794.009804	0.02	0.008196	0.1191
DH7	zbw1	N27-02-05.95W	51919.951367	0.03	0.008115	0.1563

DH8	acu5	S18-30-59.65E	51920.915149	0.07	0.022988	0.3717
			61846.962630			
			61848.297771			
DH9	acu5	S23-23-18.74E	55984.265443	0.04	0.012909	0.2306
			55985.465534			

Error Propagation

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Station Coordinate Standard Deviations (Meters)

Station	N	E	Elev
10924A	0.002560	0.002115	0.000000
1A	0.002594	0.002136	0.000000
1B	0.002952	0.002169	0.000000
2A	0.003048	0.002751	0.000000
2B	0.005043	0.005261	0.000000
3A	0.004601	0.003954	0.000000
3B	0.003287	0.003385	0.000000
3C	0.003055	0.002822	0.000000
4A	0.003127	0.002550	0.000000
4B	0.004726	0.002770	0.000000
5A	0.004042	0.002999	0.000000
5B	0.004970	0.003356	0.000000
61D	0.006188	0.005076	0.000000
61E	0.003574	0.003066	0.000000
61F	0.025063	0.019282	0.000000
6A	0.003037	0.002816	0.000000
6B	0.002932	0.002581	0.000000
6C	0.003425	0.003432	0.000000
CHS12A	0.003380	0.003185	0.005759
CHS1A	0.007821	0.007527	0.013797
CHS4A	0.003671	0.002453	0.000000
CHS9A	0.004093	0.004058	0.007251
CTPU	0.000000	0.000000	0.004829
DH10	0.003918	0.003397	0.000000
DH11	0.002835	0.002602	0.000000
DH7	0.003436	0.002992	0.000000
DH8	0.010034	0.008016	0.000000
DH9	0.005209	0.004888	0.000000
acu5	0.000000	0.000000	0.005184
zbw1	0.000000	0.000000	0.006886

Station Coordinate Error Ellipses (Meters)

Confidence Region = 95%

Station	Semi-Major Axis	Semi-Minor Axis	Azimuth of Major Axis	Elev
10924A	0.006311	0.005122	168-13	0.000000
1A	0.006391	0.005176	11-17	0.000000
1B	0.007268	0.005253	8-55	0.000000
2A	0.007461	0.006734	1-36	0.000000
2B	0.016118	0.007644	133-05	0.000000
3A	0.011567	0.009313	22-36	0.000000
3B	0.009045	0.007182	48-41	0.000000
3C	0.007566	0.006810	20-29	0.000000
4A	0.007656	0.006239	2-45	0.000000
4B	0.011607	0.006714	174-16	0.000000
5A	0.009999	0.007199	12-00	0.000000
5B	0.012560	0.007598	18-12	0.000000
61D	0.015567	0.011891	20-59	0.000000
61E	0.008815	0.007426	13-11	0.000000
61F	0.071346	0.030018	34-15	0.000000
6A	0.007651	0.006649	151-22	0.000000
6B	0.007179	0.006314	176-47	0.000000
6C	0.009691	0.006849	134-50	0.000000
CHS12A	0.008277	0.007790	174-35	0.011288
CHS1A	0.020451	0.016960	39-02	0.027041
CHS4A	0.009299	0.005507	161-23	0.000000
CHS9A	0.010201	0.009745	39-29	0.014212
CTPU	0.000000	0.000000	0-00	0.009466

DH10	0.009614	0.008289	7-50	0.000000
DH11	0.006942	0.006366	3-46	0.000000
DH7	0.008421	0.007313	5-35	0.000000
DH8	0.025182	0.018819	19-24	0.000000
DH9	0.012909	0.011792	157-23	0.000000
acu5	0.000000	0.000000	0-00	0.010160
zbw1	0.000000	0.000000	0-00	0.013496

Relative Error Ellipses (Meters)
Confidence Region = 95%

Stations From	To	Semi-Major Axis	Semi-Minor Axis	Azimuth of Major Axis	Vertical
10924A	2A	0.008395	0.007328	175-28	0.000000
10924A	4B	0.012265	0.007560	173-28	0.000000
10924A	5A	0.010675	0.007772	8-05	0.000000
10924A	5B	0.012913	0.008201	16-02	0.000000
10924A	61D	0.015669	0.012202	18-05	0.000000
10924A	61E	0.009536	0.008113	7-03	0.000000
10924A	6C	0.010371	0.007727	138-47	0.000000
10924A	CHS1A	0.020117	0.016611	39-24	0.027041
10924A	CHS4A	0.010217	0.002664	159-24	0.000000
10924A	CHS9A	0.010588	0.010192	20-45	0.014212
10924A	CTPU	0.006311	0.005122	168-13	0.009466
10924A	DH10	0.010204	0.008773	2-16	0.000000
10924A	DH7	0.009434	0.008163	0-04	0.000000
10924A	acu5	0.006311	0.005122	168-13	0.010160
10924A	zbw1	0.006311	0.005122	168-13	0.013496
1A	1B	0.007419	0.002454	14-06	0.000000
1A	3A	0.011713	0.009103	23-04	0.000000
1A	3B	0.008840	0.006510	44-32	0.000000
1A	3C	0.007404	0.006054	23-36	0.000000
1A	4A	0.008207	0.005868	8-32	0.000000
1A	5A	0.010084	0.006837	13-01	0.000000
1A	61D	0.015707	0.011450	21-44	0.000000
1A	61E	0.009546	0.007817	12-53	0.000000
1A	CHS12A	0.009038	0.008312	5-55	0.011288
1A	CHS4A	0.010261	0.006803	165-25	0.000000
1A	CHS9A	0.010710	0.009980	34-16	0.014212
1A	CTPU	0.006391	0.005176	11-17	0.009466
1A	DH11	0.007071	0.006321	11-27	0.000000
1A	DH7	0.009617	0.008100	10-10	0.000000
1A	acu5	0.006391	0.005176	11-17	0.010160
1A	zbw1	0.006391	0.005176	11-17	0.013496
1B	2A	0.008429	0.006880	7-40	0.000000
1B	3C	0.007849	0.006156	16-33	0.000000
1B	4A	0.007816	0.005769	5-17	0.000000
1B	4B	0.011098	0.006266	175-55	0.000000
1B	5A	0.010394	0.006830	12-53	0.000000
1B	5B	0.012337	0.007238	17-59	0.000000
1B	61D	0.015342	0.011466	21-11	0.000000
1B	6A	0.008396	0.006916	175-03	0.000000
1B	6B	0.008237	0.006501	4-29	0.000000
1B	CTPU	0.007268	0.005253	8-55	0.009466
1B	acu5	0.007268	0.005253	8-55	0.010160
1B	zbw1	0.007268	0.005253	8-55	0.013496
2A	2B	0.015203	0.002877	130-44	0.000000
2A	3C	0.008148	0.007524	15-25	0.000000
2A	5A	0.010636	0.008175	12-31	0.000000
2A	61E	0.009399	0.008169	13-19	0.000000
2A	6A	0.008504	0.007350	140-36	0.000000
2A	6B	0.007720	0.006993	171-47	0.000000
2A	6C	0.009814	0.007349	135-44	0.000000
2A	CHS12A	0.009821	0.009119	178-14	0.011288
2A	CHS9A	0.011400	0.010493	37-03	0.014212
2A	DH10	0.009975	0.008896	12-10	0.000000

2A	DH11	0.008350	0.007685	5-17	0.000000
2B	6B	0.015626	0.007696	134-13	0.000000
2B	6C	0.016188	0.007756	133-34	0.000000
3A	3B	0.012284	0.009772	37-16	0.000000
3A	3C	0.011557	0.009393	25-40	0.000000
3A	4A	0.012182	0.009724	20-03	0.000000
3A	61E	0.013665	0.010663	20-23	0.000000
3A	CHS12A	0.012769	0.010942	20-04	0.011288
3A	CHS9A	0.014033	0.011826	35-47	0.014212
3A	DH7	0.013193	0.010840	18-51	0.000000
3B	3C	0.008735	0.002277	61-24	0.000000
3B	4A	0.009211	0.007675	32-07	0.000000
3B	6A	0.009163	0.008040	48-10	0.000000
3B	6B	0.009170	0.007692	45-20	0.000000
3C	4B	0.011990	0.007748	176-45	0.000000
3C	6A	0.008110	0.007618	1-20	0.000000
3C	DH10	0.010340	0.009113	17-08	0.000000
3C	DH11	0.008245	0.007539	23-00	0.000000
4A	4B	0.010997	0.003117	170-28	0.000000
4A	5A	0.010496	0.007343	10-36	0.000000
4A	5B	0.012569	0.007697	15-46	0.000000
4A	61D	0.015863	0.011814	21-35	0.000000
4A	6A	0.008755	0.007440	169-44	0.000000
4A	6B	0.008573	0.007150	0-01	0.000000
4A	CTPU	0.007656	0.006239	2-45	0.009466
4A	zbw1	0.007656	0.006239	2-45	0.013496
4B	5A	0.013167	0.007748	2-48	0.000000
4B	5B	0.014172	0.008300	8-06	0.000000
5A	5B	0.014014	0.003071	23-36	0.000000
5A	61D	0.017141	0.012261	20-49	0.000000
5A	61E	0.011936	0.008952	14-45	0.000000
5A	6A	0.010806	0.008281	8-06	0.000000
5A	DH10	0.012433	0.009551	14-25	0.000000
5A	DH11	0.010434	0.007999	12-41	0.000000
5B	6A	0.012869	0.008665	16-07	0.000000
61E	61F	0.070820	0.029034	34-21	0.000000
61E	CTPU	0.008815	0.007426	13-11	0.009466
61E	DH11	0.009659	0.008427	12-58	0.000000
61E	DH9	0.013610	0.012545	169-07	0.000000
61E	acu5	0.008815	0.007426	13-11	0.010160
6A	6B	0.004973	0.002026	120-48	0.000000
6A	6C	0.010897	0.002897	126-26	0.000000
6A	CTPU	0.007651	0.006649	151-22	0.009466
6A	DH10	0.010509	0.009497	178-34	0.000000
6A	DH11	0.008560	0.007812	162-47	0.000000
6A	DH7	0.010122	0.009044	176-57	0.000000
6A	acu5	0.007651	0.006649	151-22	0.010160
6A	zbw1	0.007651	0.006649	151-22	0.013496
6B	6C	0.006471	0.002129	130-36	0.000000
6C	CTPU	0.009691	0.006849	134-50	0.009466
6C	DH9	0.014146	0.012486	148-44	0.000000
6C	acu5	0.009691	0.006849	134-50	0.010160
6C	zbw1	0.009691	0.006849	134-50	0.013496
CHS12A	CTPU	0.008277	0.007790	174-35	0.013883
CHS12A	DH11	0.009298	0.008843	178-43	0.011288
CHS12A	acu5	0.008277	0.007790	174-35	0.013827
CHS12A	zbw1	0.008277	0.007790	174-35	0.016652
CHS1A	CTPU	0.020451	0.016960	39-02	0.028561
CHS1A	acu5	0.020451	0.016960	39-02	0.028393
CHS4A	CTPU	0.009299	0.005507	161-23	0.009466
CHS4A	acu5	0.009299	0.005507	161-23	0.010160
CHS4A	zbw1	0.009299	0.005507	161-23	0.013496
CHS9A	CTPU	0.010201	0.009745	39-29	0.016773
CHS9A	acu5	0.010201	0.009745	39-29	0.016980
CHS9A	zbw1	0.010201	0.009745	39-29	0.019116
CTPU	DH10	0.009614	0.008289	7-50	0.009466

CTPU	DH11	0.006942	0.006366	3-46	0.009466
CTPU	DH7	0.008421	0.007313	5-35	0.009466
CTPU	DH8	0.025182	0.018819	19-24	0.009466
CTPU	DH9	0.012909	0.011792	157-23	0.009466
DH10	DH7	0.011496	0.009799	5-00	0.000000
DH10	acu5	0.009614	0.008289	7-50	0.010160
DH11	acu5	0.006942	0.006366	3-46	0.010160
DH11	zbw1	0.006942	0.006366	3-46	0.013496
DH7	acu5	0.008421	0.007313	5-35	0.010160
DH7	zbw1	0.008421	0.007313	5-35	0.013496
DH8	acu5	0.025182	0.018819	19-24	0.010160
DH9	acu5	0.012909	0.011792	157-23	0.010160

Positional Tolerance Check (Meters)
Allowable Tolerance = 0.0100 + 0 PPM
Tolerance Check Confidence Region = 95%
Listing Failures Only

Stations		Horizontal	Semi-Major-Axis		Ratio
From	To	Distance	Actual	Allowed	Actual/Allowed
10924A	4B	3404.2084	0.0123	0.0100	1.2265 *
10924A	5A	2068.5363	0.0107	0.0100	1.0675 *
10924A	5B	1792.7523	0.0129	0.0100	1.2913 *
10924A	61D	2199.4901	0.0157	0.0100	1.5669 *
10924A	6C	4166.2912	0.0104	0.0100	1.0371 *
10924A	CHS1A	2327.2048	0.0201	0.0100	2.0117 *
10924A	CHS4A	207.1845	0.0102	0.0100	1.0217 *
10924A	CHS9A	4791.9216	0.0106	0.0100	1.0588 *
10924A	DH10	1006.3547	0.0102	0.0100	1.0204 *
1A	3A	1735.9891	0.0117	0.0100	1.1713 *
1A	5A	690.0065	0.0101	0.0100	1.0084 *
1A	61D	570.0550	0.0157	0.0100	1.5707 *
1A	CHS4A	2549.8863	0.0103	0.0100	1.0261 *
1A	CHS9A	2719.8864	0.0107	0.0100	1.0710 *
1B	4B	2524.0650	0.0111	0.0100	1.1098 *
1B	5A	838.0062	0.0104	0.0100	1.0394 *
1B	5B	1131.7574	0.0123	0.0100	1.2337 *
1B	61D	734.1713	0.0153	0.0100	1.5342 *
2A	2B	262.8622	0.0152	0.0100	1.5203 *
2A	5A	3580.7639	0.0106	0.0100	1.0636 *
2A	CHS9A	508.8833	0.0114	0.0100	1.1400 *
2B	6B	1186.6271	0.0156	0.0100	1.5626 *
2B	6C	1319.6983	0.0162	0.0100	1.6188 *
3A	3B	262.8371	0.0123	0.0100	1.2284 *
3A	3C	325.1831	0.0116	0.0100	1.1557 *
3A	4A	2380.0132	0.0122	0.0100	1.2182 *
3A	61E	1407.0563	0.0137	0.0100	1.3665 *
3A	CHS12A	1511.2404	0.0128	0.0100	1.2769 *
3A	CHS9A	2936.8666	0.0140	0.0100	1.4033 *
3A	DH7	7742.3337	0.0132	0.0100	1.3193 *
3C	4B	2856.0194	0.0120	0.0100	1.1990 *
3C	DH10	3372.7362	0.0103	0.0100	1.0340 *
4A	4B	376.6670	0.0110	0.0100	1.0997 *
4A	5A	2582.5971	0.0105	0.0100	1.0496 *
4A	5B	2496.8933	0.0126	0.0100	1.2569 *
4A	61D	2360.2467	0.0159	0.0100	1.5863 *
4B	5A	2502.9911	0.0132	0.0100	1.3167 *
4B	5B	2370.7429	0.0142	0.0100	1.4172 *
5A	5B	337.7045	0.0140	0.0100	1.4014 *
5A	61D	233.9571	0.0171	0.0100	1.7141 *
5A	61E	1138.6827	0.0119	0.0100	1.1936 *
5A	6A	2784.7258	0.0108	0.0100	1.0806 *
5A	DH10	1141.8074	0.0124	0.0100	1.2433 *
5A	DH11	3101.9575	0.0104	0.0100	1.0434 *
5B	6A	3086.0726	0.0129	0.0100	1.2869 *
61E	61F	271.5914	0.0708	0.0100	7.0820 *

61E	DH9	4649.0919	0.0136	0.0100	1.3610 *
6A	6C	309.8624	0.0109	0.0100	1.0897 *
6A	DH10	3669.3719	0.0105	0.0100	1.0509 *
6A	DH7	10653.3037	0.0101	0.0100	1.0122 *
6C	DH9	2052.0230	0.0141	0.0100	1.4146 *
CHS1A	CTPU	69494.4492	0.0205	0.0100	2.0451 *
CHS1A	acu5	63728.3061	0.0205	0.0100	2.0451 *
CHS9A	CTPU	71565.6350	0.0102	0.0100	1.0201 *
CHS9A	acu5	58248.7760	0.0102	0.0100	1.0201 *
CHS9A	zbw1	62427.0324	0.0102	0.0100	1.0201 *
CTPU	DH8	75930.6746	0.0252	0.0100	2.5182 *
CTPU	DH9	69962.4703	0.0129	0.0100	1.2909 *
DH10	DH7	7849.9586	0.0115	0.0100	1.1496 *
DH8	acu5	61846.9626	0.0252	0.0100	2.5182 *
DH9	acu5	55984.2654	0.0129	0.0100	1.2909 *

Connections Checked = 131

Number of Failures = 61

Elapsed Time = 00:00:00