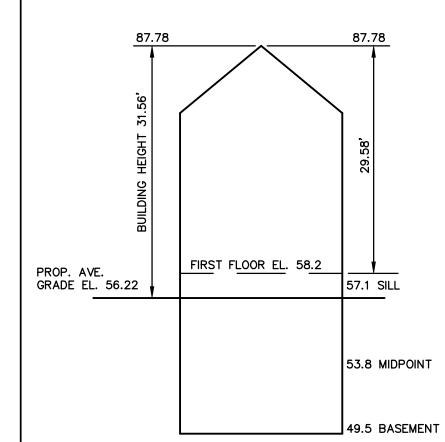


|  |                | Length V         | Veighted Me        | an               |                 |  |
|--|----------------|------------------|--------------------|------------------|-----------------|--|
| Proposed Average Grade Calculation Units 1 & 2 |                |                  |                    |                  |                 |  |
|  |                |                  |                    |                  |                 |  |
| Segment  | Length Of      | <u>Height of</u> | Height of          | E=(C+D)/2        | F=BxE           |  |
|  | Segment        | High Point       | Low Point          | Average          |                 |  |
|  | <u>in Feet</u> | of Segment       | of Segment         | Segment Height   |                 |  |
| 1  | 17.04          | 55.50            | 55.00              | 55.25            | 941.46 Sq. Ft.  |  |
| 2  | 8.41           | 56.00            | 55.50              | 55.75            | 468.86 Sq. Ft.  |  |
| 3  | 15.54          | 56.50            | 56.00              | 56.25            | 874.13 Sq. Ft.  |  |
| 4  | 38.00          | 56.40            | 56.40              | 56.40            | 2143.20 Sq. Ft. |  |
| 5  | 38.00          | 56.40            | 56.40              | 56.40            | 2143.20 Sq. Ft. |  |
| 6  | 15.54          | 56.10            | 55.80              | 55.95            | 869.46 Sq. Ft.  |  |
| 7  | 8.41           | 56.10            | 56.10              | 56.10            | 471.80 Sq. Ft.  |  |
| 8  | 17.04          | 56.30            | 56.10              | 56.20            | 957.65 Sq. Ft.  |  |
| 9  | 9.50           | 56.40            | 56.40              | 56.40            | 535.80 Sq. Ft.  |  |
| 10   | 23.37          | 56.40            | 56.40              | 56.40            | 1318.07 Sq. Ft. |  |
| 11   | 23.38          | 56.40            | 56.40              | 56.40            | 1318.63 Sq. Ft. |  |
| 12   | 9.50           | 56.40            | 56.40              | 56.40            | 535.80 Sq. Ft.  |  |
| Total  | 223.73         |                  |                    |                  | 12578.05 Sq. Ft |  |
|  |                | Total Column F   | / Total Column B = | Average Grade    |                 |  |
|  | •              |                  | A                  | verage Grade: 56 | 5.22'           |  |

| Length Weighted Mean Proposed Average Grade Calculation Units 3 & 4 |                |                |                    |                  |                 |  |  |  |           |           |           |           |       |  |  |
|---|----------------|----------------|--------------------|------------------|-----------------|--|--|--|-----------|-----------|-----------|-----------|-------|--|--|
|   |                |                |                    |                  |                 |  |  | <u>A</u> <u>B</u> <u>C</u> <u>D</u> <u>E</u> |           |           |           |           |       |  |  |
|   |                |                |                    |                  |                 |  |  | Segment                                      | Length Of | Height of | Height of | E=(C+D)/2 | F≐BxE |  |  |
|   | <u>Segment</u> | High Point     | Low Point          | <u>Average</u>   |                 |  |  |  |           |           |           |           |       |  |  |
|   | in Feet        | of Segment     | of Segment         | Segment Height   |                 |  |  |  |           |           |           |           |       |  |  |
| 1   | 5.00           | 51.00          | 50.00              | 50.50            | 252.50 Sq. Ft.  |  |  |  |           |           |           |           |       |  |  |
| 2   | 3.00           | 51.20          | 51.00              | 51.10            | 153.30 Sq. Ft.  |  |  |  |           |           |           |           |       |  |  |
| 3   | 7.54           | 55.50          | 55.50              | 55.50            | 418.47 Sq. Ft.  |  |  |  |           |           |           |           |       |  |  |
| 4   | 8.41           | 55.40          | 55.40              | 55.40            | 465.91 Sq. Ft.  |  |  |  |           |           |           |           |       |  |  |
| 5   | 17.04          | 55.40          | 55.30              | 55.35            | 943.16 Sq. Ft.  |  |  |  |           |           |           |           |       |  |  |
| 6   | 9.50           | 56.40          | 56.40              | 56.40            | 535.80 Sq. Ft.  |  |  |  |           |           |           |           |       |  |  |
| 7   | 23.38          | 56.40          | 56.40              | 56.40            | 1318.63 Sq. Ft. |  |  |  |           |           |           |           |       |  |  |
| 8   | 23.37          | 56.40          | 56.40              | 56.40            | 1318.07 Sq. Ft. |  |  |  |           |           |           |           |       |  |  |
| 9   | 9.50           | 56.40          | 56.40              | 56.40            | 535.80 Sq. Ft.  |  |  |  |           |           |           |           |       |  |  |
| 10  | 17.04          | 56.40          | 55.20              | 55.80            | 950.83 Sq. Ft.  |  |  |  |           |           |           |           |       |  |  |
| 11  | 8.41           | 55.20          | 54.10              | 54.65            | 459.61 Sq. Ft.  |  |  |  |           |           |           |           |       |  |  |
| 12  | 15.54          | 53.60          | 50.60              | 52.10            | 809.63 Sq. Ft.  |  |  |  |           |           |           |           |       |  |  |
| 13  | 38.00          | 49.70          | 49.70              | 49.70            | 1888.60 Sq. Ft. |  |  |  |           |           |           |           |       |  |  |
| 14  | 38.00          | 49.70          | 49.70              | 49.70            | 1888.60 Sq. Ft. |  |  |  |           |           |           |           |       |  |  |
| Total   | 223.73         |                |                    |                  | 11938.92 Sq. Ft |  |  |  |           |           |           |           |       |  |  |
|   |                | Total Column F | / Total Column B = | = Average Grade  |                 |  |  |  |           |           |           |           |       |  |  |
|   |                | Total Column   |                    | verage Grade: 53 | 3.36'           |  |  |  |           |           |           |           |       |  |  |

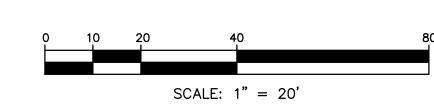


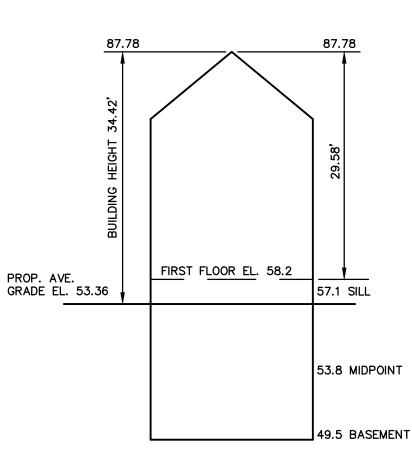


NOT TO SCALE

DIG SAFE **EXCAVATORS** BEFORE YOU DIG CONTACT THE DIG SAFE CENTER TO PREVENT DAMAGE TO TELEPHONE, GAS OR ELECTRIC UNDERGROUND FACILITIES OF MEMBER UTILITIES, CALL TOLL FREE 1-888-DIG-SAFE. MASSACHUSETTS STATE LAW REQUIRES NOTIFICATION AT LEAST THREE BUSINESS DAYS BEFORE YOU START DIGGING OPERATIONS. IN AN EMERGENCY, CALL IMMEDIATELY



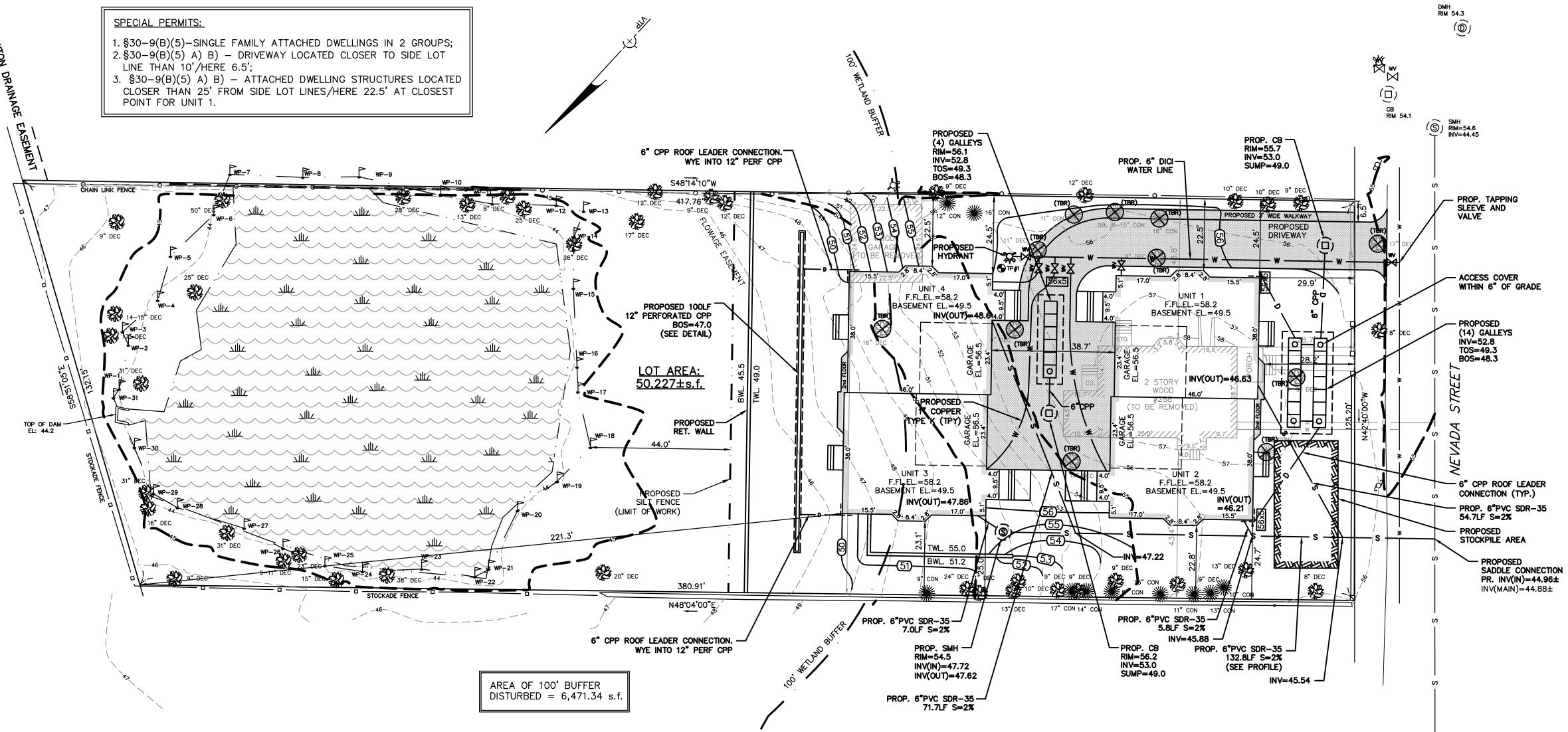


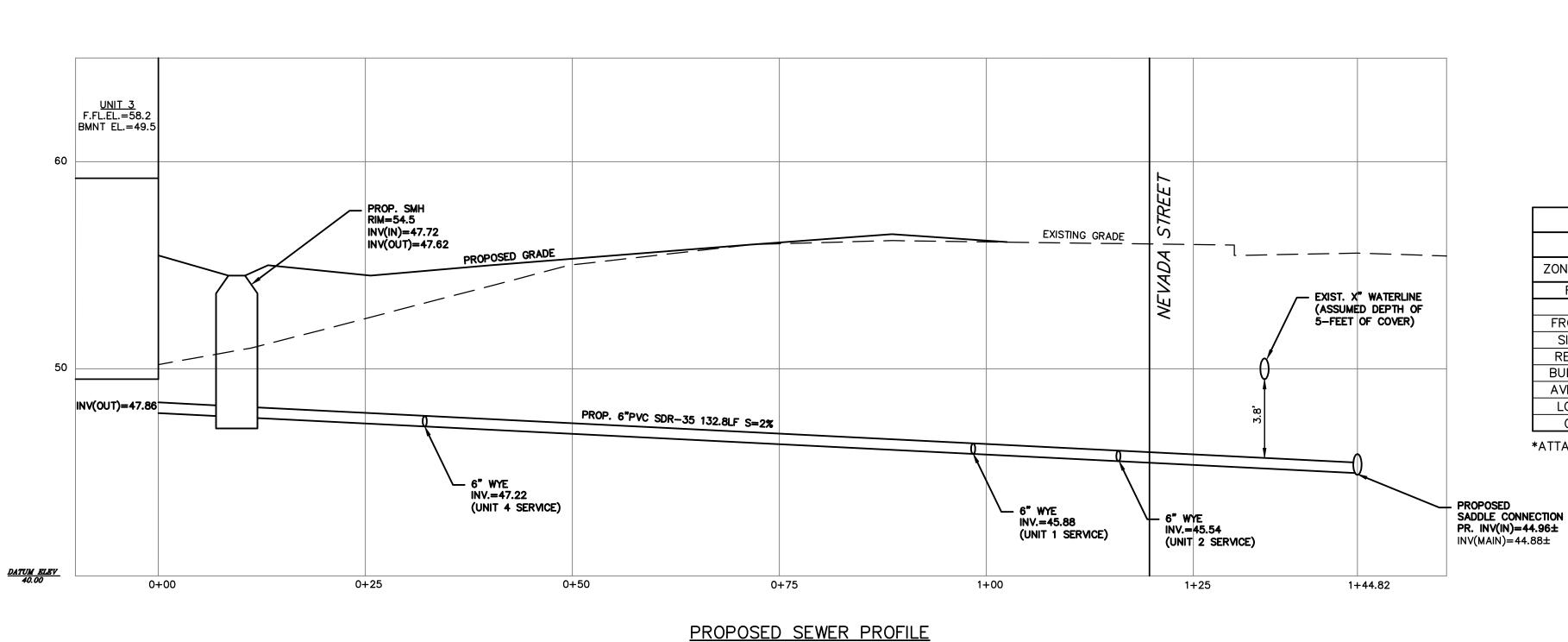


## <u>UNIT 3 & 4</u> PROPOSED BUILDING HEIGHT

NOT TO SCALE

| <u>LEGEND</u>                        |   |
|--------------------------------------|---|
| BUILDING                             | 7////////////////////////////////////// |
| PROPERTY LINE W/<br>BEARING DISTANCE | S81*56'34*E                             |
| CONTOUR                              |   |
| STOCKADE FENCE                       |   |
| CHAINLINK FENCE                      | <del></del>                             |
| PICKET FENCE                         | · ·                                     |
| SEWER LINE                           | s                                       |
| DRAIN LINE                           | D                                       |
| WATER LINE                           | w                                       |
| GAS LINE                             | G                                       |
| GAS VALVE                            | GV<br>⋈                                 |
| WATER VALVE                          | ₩v                                      |
| DRAIN MANHOLE                        | 0                                       |
| SEWER MANHOLE                        | <b>S</b>                                |
| CATCH BASIN                          |   |
| UTILITY POLE                         | Ø                                       |
| LIGHT POLE                           | <b>\$</b>                               |
| DECIDUOUS TREE                       | DEC. 22"                                |
| CONIFEROUS TREE                      | <b>**</b> CON. 12"                      |





SCALE: 1" = 10' (HORIZONTAL) SCALE: 1'' = 4' (VERTICAL)

ZONE: MR-1

REGULATION

LOT AREA

FRONT SETBACK

SIDE SETBACK

REAR SETBACK

BUILDING HEIGHT

AVERAGE GRADE

LOT COVERAGE

OPEN SPACE

\*ATTACHED DWELLING TOPOGRAPHIC SITE PLAN NEWTON, MASSACHUSETTS

TESTPIT LOG

24-36" TOP+SUBSOIL

36-100" MED-COARSE

ZONING CHART

NEWTON, MASSACHUSETTS

25.0

7.5,/\*25.0

15.0'/\*25.0'

36.0'

30.0%/25.0%\*

50.0%

SUBMISSION: PROPOSED

28.2

22.5

221.3

31.56'/34.42

14.3%

56.73 | 56.22/53.36

95.8% 78.8%

REQUIRED EXISTING PROPOSED

\*15,000.0s.f. | 50,227±s.f. | N/C

28.7'

43.4'

293.2

33.17'

4.2%

FEW GRAVEL

TESTPIT #1 0-24" FILL

NO WATER

NO REFUSAL

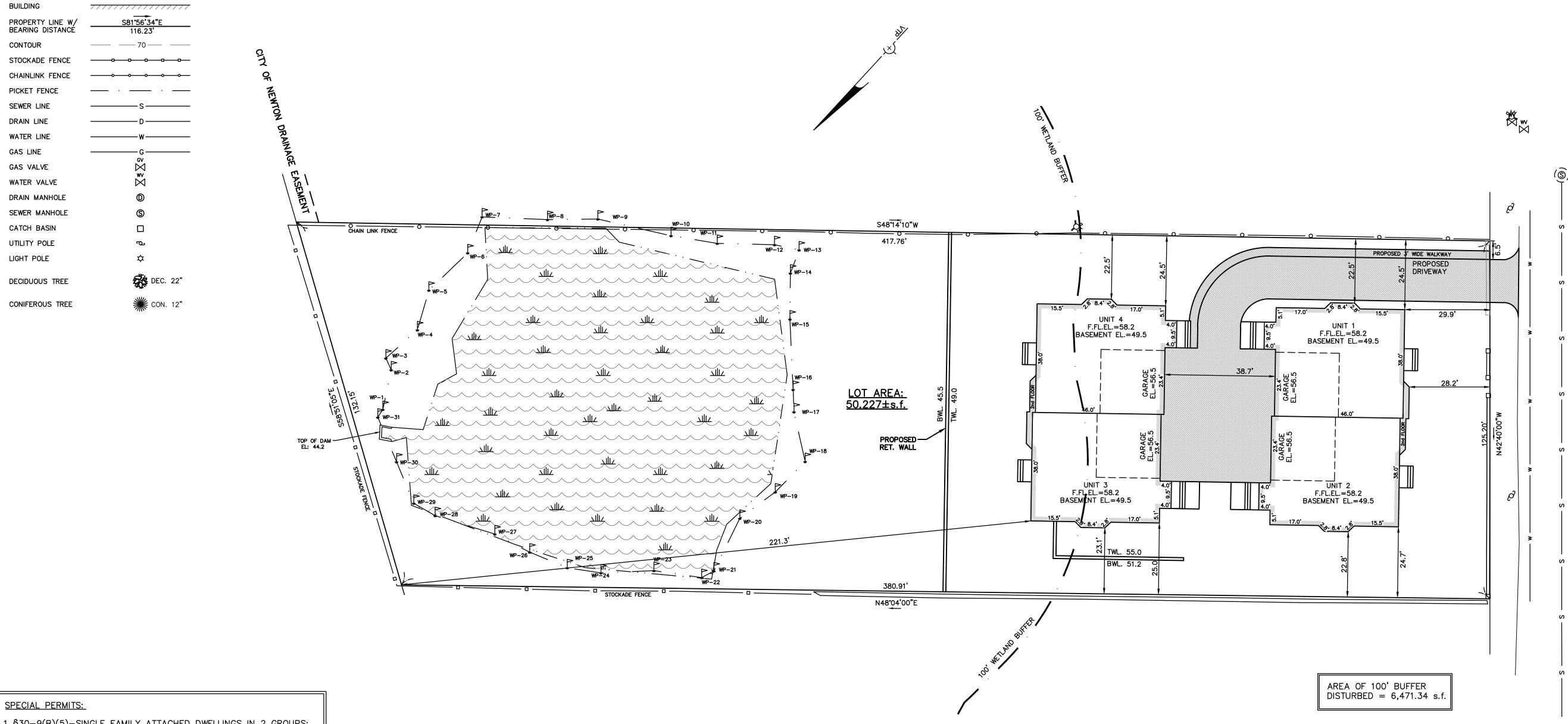
SHOWING PROPOSED CONDITIONS AT #288 NEVADA STREET

SCALE: 1in.=20ft. DATE: DECEMBER 3, 2012 REVISED: DECEMBER 13, 2012; DECEMBER 19, 2012; JANUARY 4, 2013; JANUARY 10, 2013 PROJECT: 205308



LAND SURVEYORS — CIVIL ENGINEERS. 132 ADAMS STREET 2ND FLOOR SUITE 3 NEWTON, MA 02458 (617) 332-8271

SHEET 2 OF 2



TESTPIT LOG TESTPIT #1 0-24" FILL 24-36" TOP+SUBSOIL 36-100" MED-COARSE FEW GRAVEL NO WATER NO REFUSAL

1. §30-9(B)(5)-SINGLE FAMILY ATTACHED DWELLINGS IN 2 GROUPS; 2. §30-9(B)(5) A) B) - DRIVEWAY LOCATED CLOSER TO SIDE LOT LINE THAN 10'/HERE 6.5';

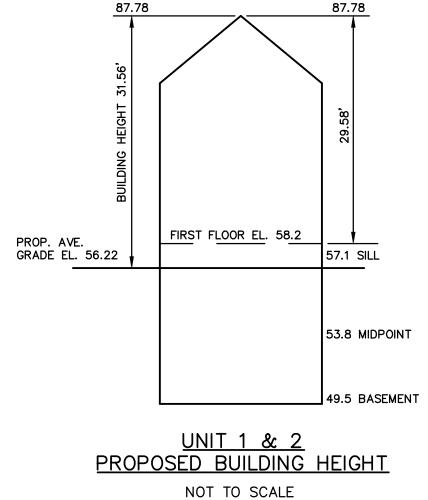
<u>LEGEND</u>

3. §30-9(B)(5) A) B) - ATTACHED DWELLING STRUCTURES LOCATED CLOSER THAN 25' FROM SIDE LOT LINES/HERE 22.5' AT CLOSEST POINT FOR UNIT 1.

|   | 87.78                  |                                       | 87.78         |
|---|------------------------|---------------------------------------|---------------|
| EXCAVATORS  BEFORE YOU DIG CONTACT THE DIG SAFE CENTER TO PREVENT DAMAGE TO TELEPHONE, GAS OR ELECTRIC UNDERGROUND FACILITIES OF MEMBER UTILITIES, CALL TOLL FREE 1-888-DIG-SAFE. MASSACHUSETTS STATE LAW REQUIRES NOTIFICATION AT LEAST THREE BUSINESS DAYS BEFORE YOU START DIGGING OPERATIONS. IN AN EMERGENCY, CALL IMMEDIATELY | BUILDING HEIGHT 34.42' | FIRST FLOOR EL. 58.2                  | 57.1 SILL     |
| DIG SAFE  |                        |                                       | 53.8 MIDPOINT |
|   | <u>PROPO</u>           | <u>UNIT 3 &amp; 4</u><br>SED BUILDING | <u>HEIGHT</u> |

NOT TO SCALE

|   |         | Length V       | Veighted Me        | an               |                  |  |         |                |            |           |                |       |
|---|---------|----------------|--------------------|------------------|------------------|--|---------|----------------|------------|-----------|----------------|-------|
| Proposed Average Grade Calculation Units 3 & 4  A B C E E E |         |                |                    |                  |                  |  |         |                |            |           |                |       |
|   |         |                |                    |                  |                  |  | Segment | Length Of      | Height of  | Height of | E=(C+D)/2      | F=BxE |
|   |         |                |                    |                  |                  |  |         | <u>Segment</u> | High Point | Low Point | <u>Average</u> |       |
|   | in Feet | of Segment     | of Segment         | Segment Height   |                  |  |         |                |            |           |                |       |
| 1   | 5.00    | 51.00          | 50.00              | 50.50            | 252.50 Sq. Ft.   |  |         |                |            |           |                |       |
| 2   | 3.00    | 51.20          | 51.00              | 51.10            | 153.30 Sq. Ft.   |  |         |                |            |           |                |       |
| 3   | 7.54    | 55.50          | 55.50              | 55.50            | 418.47 Sq. Ft.   |  |         |                |            |           |                |       |
| 4   | 8.41    | 55.40          | 55.40              | 55.40            | 465.91 Sq. Ft.   |  |         |                |            |           |                |       |
| 5   | 17.04   | 55.40          | 55.30              | 55.35            | 943.16 Sq. Ft.   |  |         |                |            |           |                |       |
| 6   | 9.50    | 56.40          | 56.40              | 56.40            | 535.80 Sq. Ft.   |  |         |                |            |           |                |       |
| 7   | 23.38   | 56.40          | 56.40              | 56.40            | 1318.63 Sq. Ft.  |  |         |                |            |           |                |       |
| 8   | 23.37   | 56.40          | 56.40              | 56.40            | 1318.07 Sq. Ft.  |  |         |                |            |           |                |       |
| 9   | 9.50    | 56.40          | 56.40              | 56.40            | 535.80 Sq. Ft.   |  |         |                |            |           |                |       |
| 10  | 17.04   | 56.40          | 55.20              | 55.80            | 950.83 Sq. Ft.   |  |         |                |            |           |                |       |
| 11  | 8.41    | 55.20          | 54.10              | 54.65            | 459.61 Sq. Ft.   |  |         |                |            |           |                |       |
| 12  | 15.54   | 53.60          | 50.60              | 52.10            | 809.63 Sq. Ft.   |  |         |                |            |           |                |       |
| 13  | 38.00   | 49.70          | 49.70              | 49.70            | 1888.60 Sq. Ft.  |  |         |                |            |           |                |       |
| 14  | 38.00   | 49.70          | 49.70              | 49.70            | 1888.60 Sq. Ft.  |  |         |                |            |           |                |       |
| Total   | 223.73  |                |                    |                  | 11938.92 Sq. Ft. |  |         |                |            |           |                |       |
|   |         | Total Column F | / Total Column B = | Average Grade    |                  |  |         |                |            |           |                |       |
|   |         |                | A                  | verage Grade: 53 | 3.36'            |  |         |                |            |           |                |       |



|  |                | Length V          | Veighted Me        | <u>an</u>        |                  |
|--|----------------|-------------------|--------------------|------------------|------------------|
| Proposed Average Grade Calculation Units 1 & 2 |                |                   |                    |                  |                  |
|  |                |                   |                    |                  |                  |
| Segment  | Length Of      | Height of         | Height of          | E=(C+D)/2        | F=BxE            |
|  | <u>Segment</u> | <u>High Point</u> | Low Point          | <u>Average</u>   |                  |
|  | in Feet        | of Segment        | of Segment         | Segment Height   |                  |
| 1  | 17.04          | 55.50             | 55.00              | 55.25            | 941.46 Sq. Ft.   |
| 2  | 8.41           | 56.00             | 55.50              | 55.75            | 468.86 Sq. Ft.   |
| 3  | 15.54          | 56.50             | 56.00              | 56.25            | 874.13 Sq. Ft.   |
| 4  | 38.00          | 56.40             | 56.40              | 56.40            | 2143.20 Sq. Ft.  |
| 5  | 38.00          | 56.40             | 56.40              | 56.40            | 2143.20 Sq. Ft.  |
| 6  | 15.54          | 56.10             | 55.80              | 55.95            | 869.46 Sq. Ft.   |
| 7  | 8.41           | 56.10             | 56.10              | 56.10            | 471.80 Sq. Ft.   |
| 8  | 17.04          | 56.30             | 56.10              | 56.20            | 957.65 Sq. Ft.   |
| 9  | 9.50           | 56.40             | 56.40              | 56.40            | 535.80 Sq. Ft.   |
| 10   | 23.37          | 56.40             | 56.40              | 56.40            | 1318.07 Sq. Ft.  |
| 11   | 23.38          | 56.40             | 56.40              | 56.40            | 1318.63 Sq. Ft.  |
| 12   | 9.50           | 56.40             | 56.40              | 56.40            | 535.80 Sq. Ft.   |
| Total  | 223.73         |                   |                    |                  | 12578.05 Sq. Ft. |
|  |                | Total Column F    | / Total Column B = | = Average Grade  |                  |
|  |                |                   | A                  | verage Grade: 56 | 5.22'            |

| ZONING CHART                 |                                 |             |               |  |  |  |
|------------------------------|---------------------------------|-------------|---------------|--|--|--|
| NE                           | NEWTON, MASSACHUSETTS           |             |               |  |  |  |
| ZONE: MR-1                   | ZONE: MR-1 SUBMISSION: PROPOSED |             |               |  |  |  |
| REGULATION                   | REQUIRED                        | EXISTING    | PROPOSED      |  |  |  |
| LOT AREA                     | *15,000.0s.f.                   | 50,227±s.f. | N/C           |  |  |  |
| FRONT SETBACK                | 25.0                            | 28.7'       | 28.2'         |  |  |  |
| SIDE SETBACK                 | 7.5,/*25.0                      | 43.4'       | 22.5'         |  |  |  |
| REAR SETBACK                 | 15.0'/*25.0'                    | 293.2'      | 221.3'        |  |  |  |
| BUILDING HEIGHT              | 36.0'                           | 33.17'      | 31.56'/34.42' |  |  |  |
| AVERAGE GRADE                | _                               | 56.73       | 56.22/53.36   |  |  |  |
| LOT COVERAGE                 | 30.0%/25.0%*                    | 4.2%        | 14.3%         |  |  |  |
| OPEN SPACE 50.0% 95.8% 78.8% |                                 |             |               |  |  |  |

\*ATTACHED DWELLING

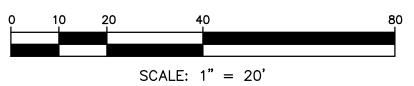
ZONING PLAN NEWTON, MASSACHUSETTS

SHOWING PROPOSED CONDITIONS AT #288 NEVADA STREET

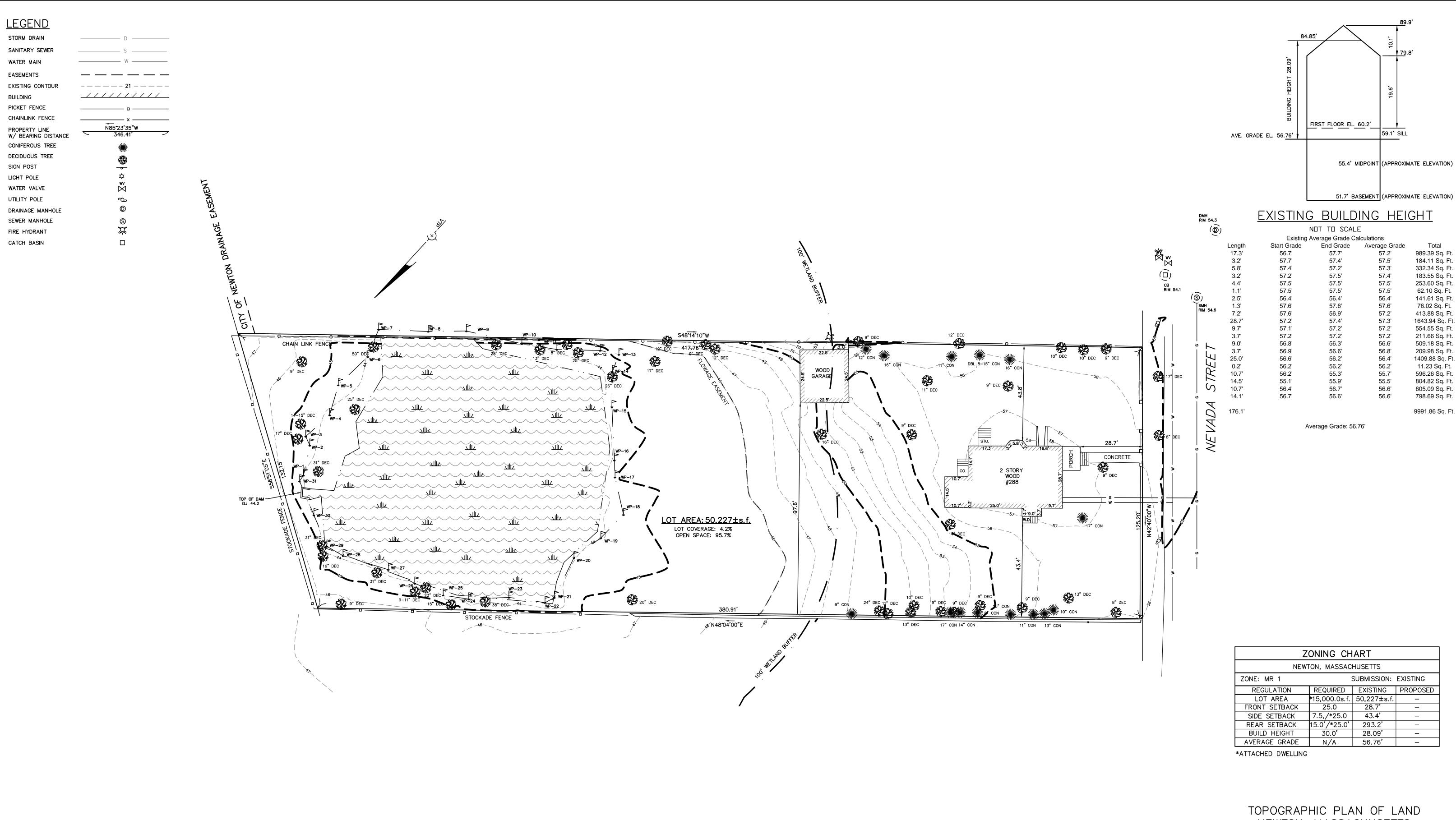
SCALE: 1in.=20ft. DATE: JANUARY 4, 2013



LAND SURVEYORS — CIVIL ENGINEERS. 132 ADAMS STREET 2ND FLOOR SUITE 3 NEWTON, MA 02458 (617) 332-8271



SHEET 1 OF 3



(<u>©</u>) smh

## TOPOGRAPHIC PLAN OF LAND NEWTON, MASSACHUSETTS

SHOWING EXISTING CONDITIONS AT #288 NEVADA STREET

SCALE: 1in.=20ft. DATE: JANUARY 27, 2005 REVISED: MARCH 29, 2006; JANUARY 10, 2013 PROJECT: 05308



LAND SURVEYORS — CIVIL ENGINEERS. 132 ADAMS STREET 2ND FLOOR SUITE 3 NEWTON, MA 02458 (617) 332-8271

