

Diagram illustrating the cross-section of a trench installation, showing the following components and dimensions:

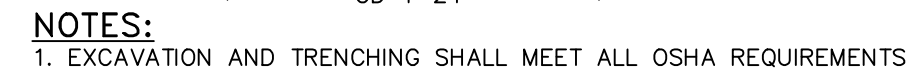
- SURFACE TREATMENT PER PLAN**: Indicated at the top left.
- FINAL GRADE**: Indicated at the top right.
- INSTALL MAGNETIC TRACER CAUTION TAPE 2 INCHES ABOVE LINE**: Indicated on the left side.
- SUITABLE RUN OF TRENCH IN 6" N COMPACTED LIFTS - OUTSIDE OF ROADWAY AND ROAD RIGHT-OF-WAY ONLY (SEE NOTE 2 BELOW), UNDER ROADWAY AND RIGHT-OF-WAY MA SHALL BE NYSDOT ITEM 304.12.**: Indicated on the right side.
- UNDISTURBED EARTH**: Indicated on the left side.
- PIPE 24"**: Indicated in the center of the trench.
- VARIES**: Indicated between the pipe and the right side.
- NYSDOT ITEM 304.12 COMPACTED TO 95% STANDARD PROCTOR IN 6" LIFTS MAXIMUM**: Indicated on the right side.
- SAND BEDDING**: Indicated at the bottom left.
- 6" MIN.**: Indicated at the bottom center.
- 4" SCH 40 PVC SANITARY SEWER LINE @ 1/4" PER FT MINIMUM SLOPE**: Indicated at the bottom right.

- NOTES:**
1. EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
  2. SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS, ORGANIC MATERIALS, LARGE STONES OR OTHER UNSUITABLE MATERIALS. IF THE RUN OF TRENCH MATERIAL IS FOUND TO BE UNSUITABLE, A SUITABLE BACKFILL MATERIAL SHALL BE IMPORTED AND USED.

**NOTES:**

1. CONCRETE CURB SHALL BE 4,000 PSI CAST-IN-PLACE, AND IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609
2. EXPANSION JOINTS OF 1/2" CELLULOSE OR SIMILAR MATERIAL SHALL BE PLACED AT 10 FOOT INTERVALS.
3. FOR MOUNTABLE CURBS ABUTTING SIDEWALK OR OTHER HARDSCAPE, REFER TO "ABUTTING SIDEWALK" DETAIL.

ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.  
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E, REFER TO "ABUTTING SIDEWALK" DETAIL.



FINISHED GRADE  
 CAST IRON COVER OF VALVE BOX SHALL BE LETTERED "WATER" AND INSTALLED FLUSH WITH FINISH GRADE  
 CAST IRON TELESCOPIC VALVE BOX  
 5'-0" MIN COVER OVER TOP OF ALL WATER PIPE  
 TAPPING SLEEVE & GATE VALVE  
 ALL VALVES SHALL BE IN ACCORDANCE WITH CITY OF BEACON STANDARDS AND SHALL BE OF MUELLER MANUFACTURE  
 CONCRETE THRUST BLOCK  
 UNDISTURBED EARTH  
 EXISTING MAIN  
 NEW DIP PIPE  
 CONCRETE THRUST BLOCK BENEATH VALVE WITH RODDING

- NOTES:
1. ALL VALVES SHALL OPEN BY TURNING LEFT (COUNTERCLOCKWISE) AND HAVE A 2-INCH SQUARE—OPERATING NUT PAINTED RED.
  2. ALL VALVES SHALL BE M.J. RESILIENT WEDGE TYPE WITH "O" RING PACKING, DESIGNED FOR A WORKING PRESSURE OF 150 PSI AND BE IN FULL CONFORMANCE WITH AWWA C500.
  3. TAPPING SLEEVE AND GATE VALVE SHOWN ARE MUELLER H-615, AND T-2630 RESPECTIVELY.

**SURFACE TREATMENT PER PLAN**

**FINAL GRADE**

**INSTALL MAGNETIC TRACER TAPE 12 INCHES ABOVE LINE**

**UNDISTURBED EARTH**

**SAND BEDDING**

**NOTES:**

- SUITABLE RUN OF TRENCH IN 6" MAX. COMPACTED LIFTS - OUTSIDE OF ROADWAY AND ROAD RIGHT-OF-WAY ONLY (SEE NOTE 2 BELOW) UNDER ROADWAY AND RIGHT-OF-WAY MATERIAL SHALL BE NYSDOT ITEM 304.12.
- NYSDOT ITEM 304.12 COMPACTED TO 95% STANDARD PROCTOR IN 6" LIFTS MAXIMUM
- 3/4"ø K-COPPER WATER SERVICE LINE
- 5" COVER MIN.
- PIPE ø = 24"
- 12"
- 6" MIN.

- NOTES:**
1. EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
  2. SUIABLE RUNS OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS, OR OTHER MATERIALS, ENLARGED PARTICLES, LARGER STONES, OR OTHER UNSUITABLE MATERIAL. THE RETURN OF TRENCH MATERIAL IS FOUND TO BE UNSUITABLE, A SUITABLE BACKFILL MATERIAL SHALL BE IMPORTED AND USED.
  3. IN AREAS WHERE 5' COVER REQUIREMENT CANNOT BE MET, THE CONTRACTOR SHALL PROVIDE AN ADEQUATE PROTECTION TO PREVENT FREEZING.
  4. IF WATER SERVICE AND SEWER SERVICE LINE CROSSINGS ARE NEEDED, PROVIDE 18" OF VERTICAL SEPARATION

- NOTES:**
1. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
  2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROXIMATELY EQUAL.
  3. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE OR APPROVED EQUAL.
  4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

- NOTES:**
1. EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
  2. SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS, ORGANIC MATERIALS, LARGE STONES OR OTHER UNSUITABLE MATERIALS. IF THE RUN OF TRENCH MATERIAL IS FOUND TO BE UNSUITABLE, A SUITABLE BACKFILL MATERIAL SHALL BE IMPORTED AND USED.
  3. TAPPING SADDLE FOR CONNECTION OF THE PROPOSED SERVICE LINE TO THE EXISTING SEWER MAIN TO BE A 4" PREDCO HUB TAP SADDLE - MODEL #HTS4/E.

GLASS "A" CONCRETE COLLAR (SEE NOTE 1)

FINISHED GRADE (SEE PLAN FOR FINAL TREATMENT)

VARIES

24" SQUARE

6" DIA.

12" 16"

NEENAH R-7506-E SERIES FLOOR BOX FRAME AND LID OR EQUAL WITH LOCKING CAP, H=20 RATED

45° ELBOW

WYE

- NOTES:  
1. CONCRETE COLLAR TO BE PROVIDED IN AREAS THAT ARE NOT  
PAVED. THE COLLAR SHALL BE 6" FROM THE COVER AND SHALL  
EXTEND 6" BELOW FINAL GRADE.

18" JOINT BETWEEN EXISTING AND NEW TOP COURSE

NEW TOP COURSE

EXISTING TOP COURSE

**PLAN VIEW**

18" JOINT BETWEEN EXISTING AND NEW TOP COURSE TO BE SEALED WITH POLYMER MODIFIED SEALER.

18"

1 1/2"

NEW TOP COURSE

EXISTING TOP COURSE

NEW BINDER COURSE

EXISTING BINDER COURSE

- NOTES:**
1. 3" BINDER COURSE AND 1½" TOP COURSE TO BE USED FOR RESTORATION OF PAVEMENT WITHIN CITY ROADS.
  2. EXCAVATIONS ARE TO BE SAW CUT SMOOTH, ALL EDGES TACK COATED, AND ALL SEAMS SEALED WITH A HOT POLYMER MODIFIED CRACK SEALANT.
  3. IF EXISTING ASPHALT PAVEMENT DEPTH IS GREATER THAN THE PROPOSED ASPHALT PAVEMENT SECTION, INCREASE PROPOSED ASPHALT BINDER THICKNESS TO MATCH EXISTING.

CUT EDGES OF PAVEMENT. APPLY COAT.

W+36"

PAVEMENT SECTION

IF EXISTING ASPHALT PAVEMENT SECTION IS GREATER THAN THE PROPOSED ASPHALT PAVEMENT SECTION, INCREASE PROPOSED ASPHALT BINDER THICKNESS TO MATCH EXISTING.

18" (TYP)

EXISTING SUBBASE

SUBBASE COURSE

LIMITS OF TRENCH EXCAVATION "W"

NYSOT ITEM 304.14 COMPACTED TO 95% STANDARD PROCTOR IN 6" LIFTS MAXIMUM TO PIPE

A

B

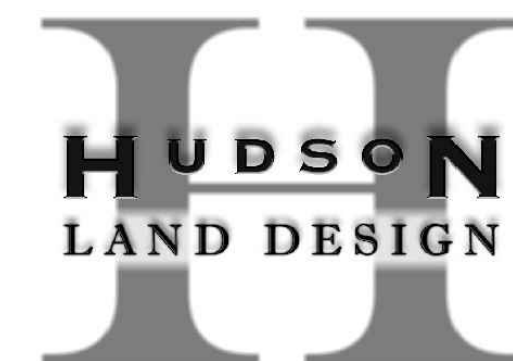
C

- LEGEND
- (A) 1-1/2" ASPHALT CONCRETE TOP COURSE- NYSDOT TYPE 6F
- (B) 2 1/2" ASPHALT CONCRETE BINDER COURSE- NYSDOT TYPE 3
- (C) 6" GRANULAR SUBBASE COURSE- NYSDOT ITEM 304.14

- NOTES:**
1. SAW CUT MIN. 18" BEYOND EXCAVATION WITH SMOOTH EDGES. 18" JOINT BETWEEN EXISTING AND NEW TOP COURSE TO BE MILLED. JOINT TO BE SEALED WITH POLYMER MODIFIED SEALER.
  2. FURNISH, PLACE, AND COMPACT SUBBASE.
  3. TACK COAT IN ACCORDANCE WITH NYSDOT STANDARD SPEC.
  4. FURNISH AND PLACE ASPHALT CONCRETE PAVEMENT AS SPECIFIED.

CONSTRUCTION DETAILS  
226 MAIN STREET

226 MAIN STREET  
CITY OF BEACON  
DUTCHESS COUNTY, NEW YORK  
TAX ID: 5954-27-860918  
SCALE: AS NOTED  
APRIL 25, 2017



HUDSON LAND DESIGN  
PROFESSIONAL ENGINEERING P.C.

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SHEET: 5 OF 5

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