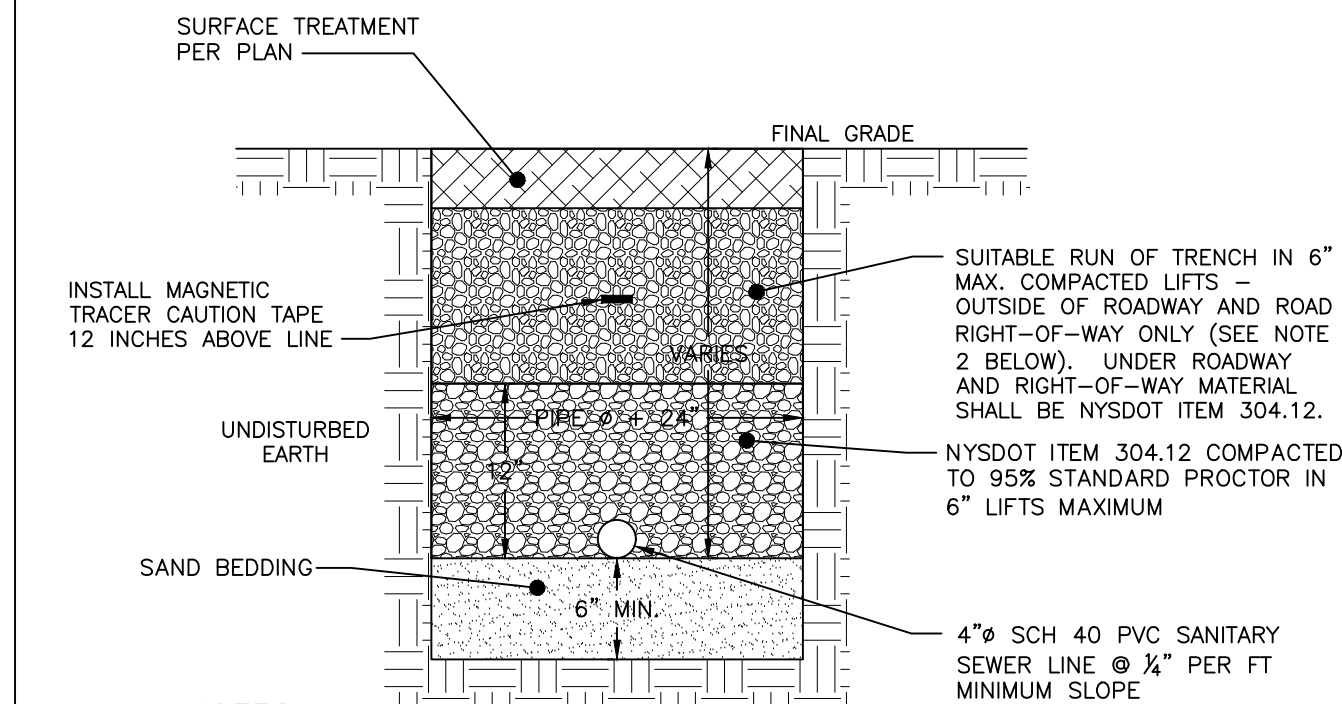
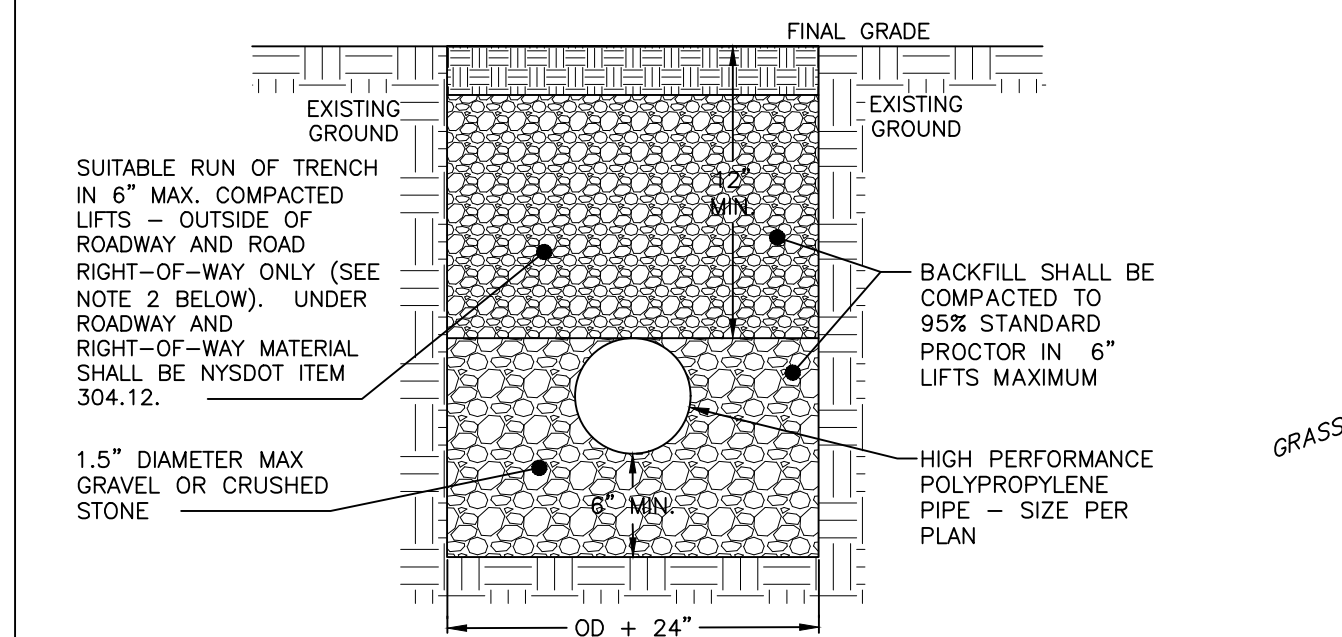


PAVED DRIVEWAY SECTION DETAIL  
NOT TO SCALE



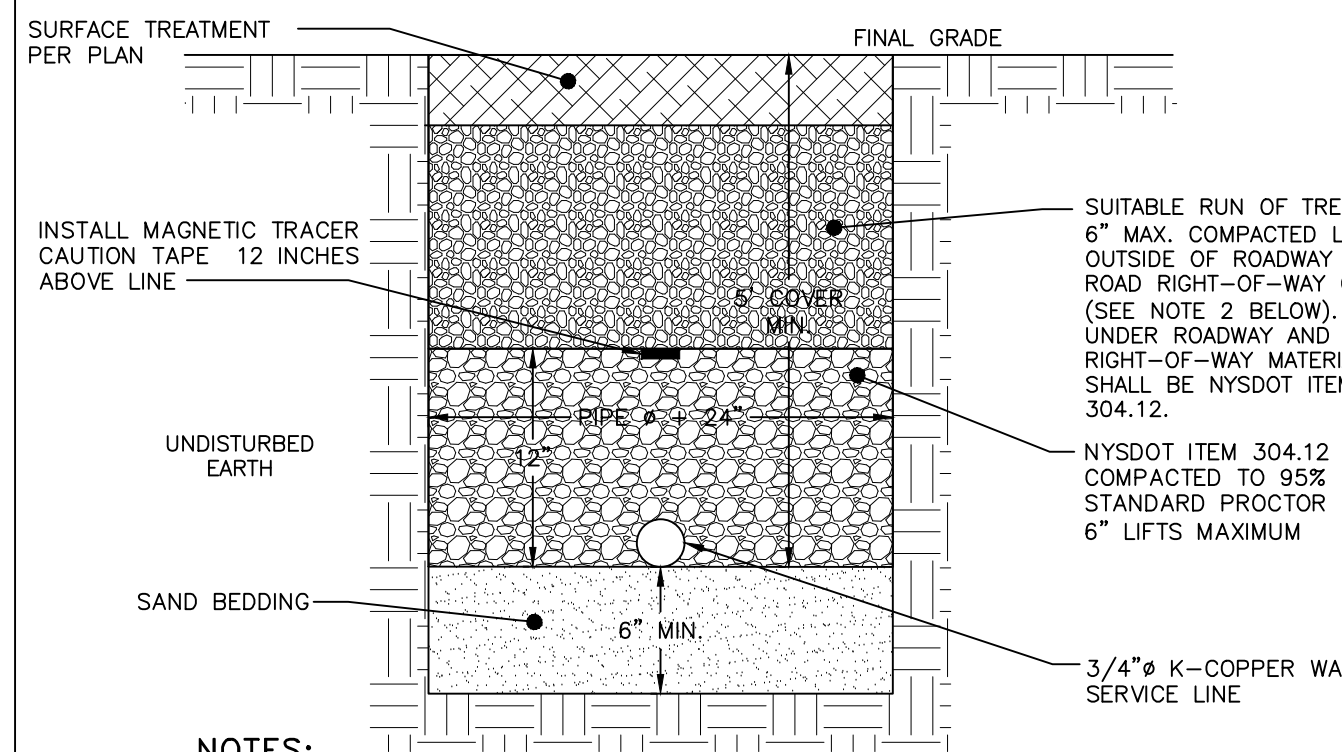
- NOTES:
1. EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
  2. SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS, ORGANIC MATERIALS, LARGE STONES OR OTHER UNSUITABLE MATERIALS. IF THE RUN OF TRENCH MATERIAL IS FOUND TO BE UNSUITABLE, A SUITABLE BACKFILL MATERIAL SHALL BE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

SANITARY SEWER SERVICE TRENCH DETAIL  
NOT TO SCALE



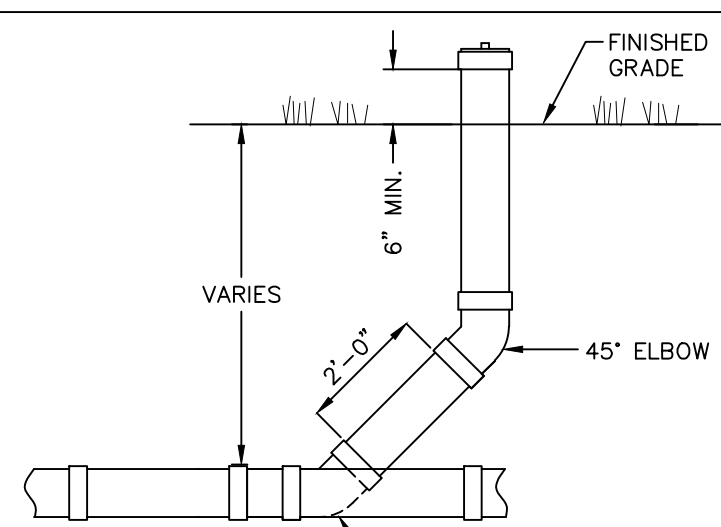
- NOTES:
1. EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.

STORM LINE TRENCH DETAIL  
NOT TO SCALE



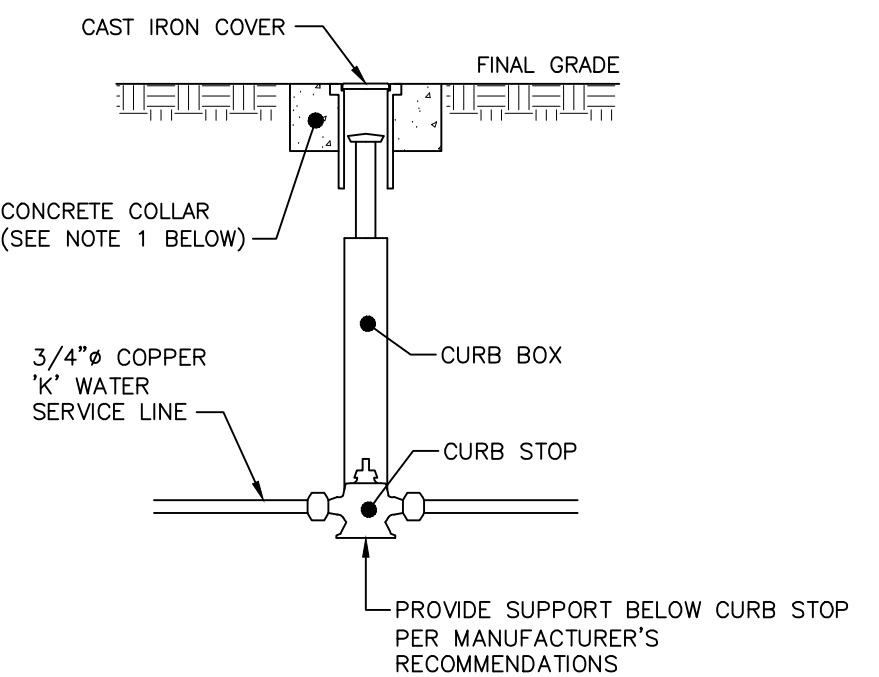
- NOTES:
1. EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
  2. SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS, ORGANIC MATERIALS, ENLARGED PARTICLES, LARGE STONES OR OTHER UNSUITABLE MATERIALS. IF THE RUN OF TRENCH MATERIAL IS FOUND TO BE UNSUITABLE, A SUITABLE BACKFILL MATERIAL SHALL BE IMPORTED AND USED.
  3. IN AREAS WHERE 5' COVER REQUIREMENT CANNOT BE MET, THE CONTRACTOR SHALL PROVIDE PIPE INSULATION TO PREVENT FREEZING.

WATER SERVICE LINE TRENCH DETAIL  
NOT TO SCALE



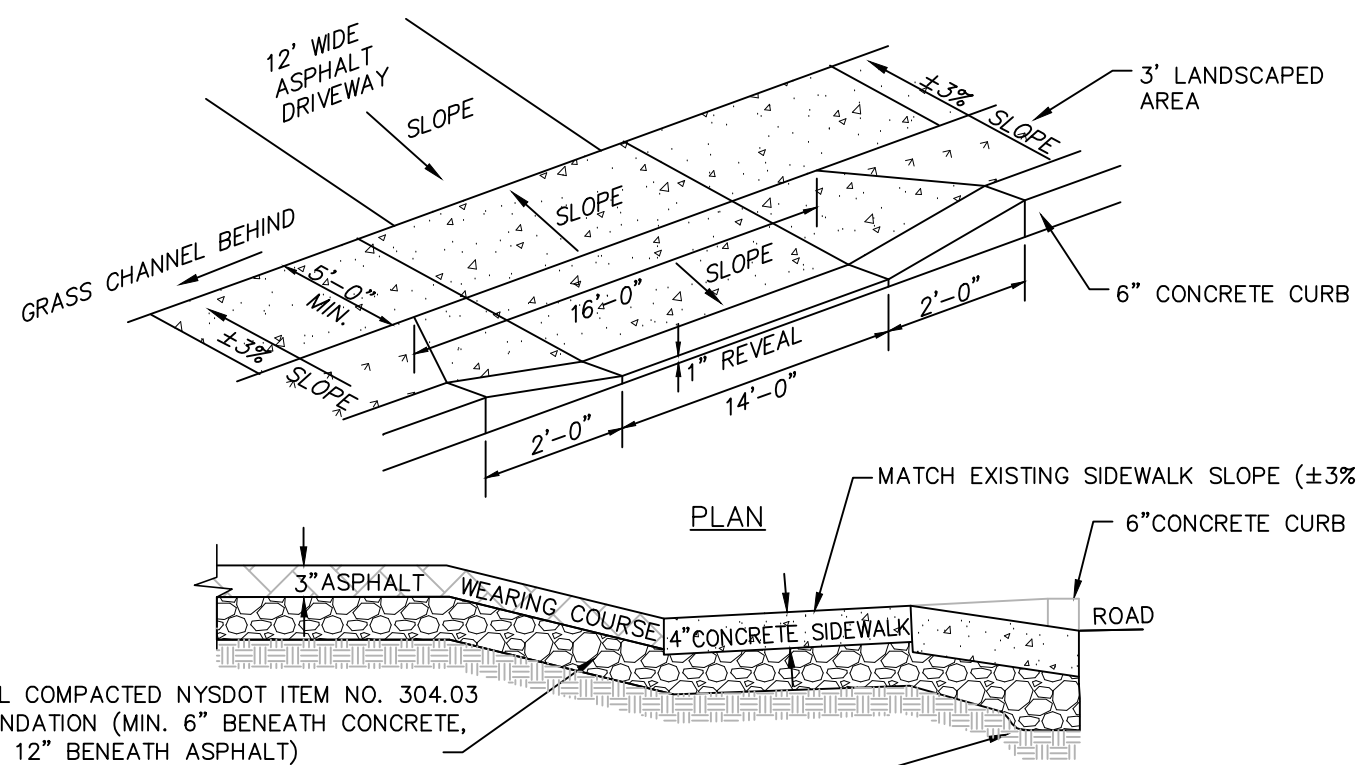
- NOTES:
1. SEWER PIPE AND FITTINGS SHALL BE ASTM D-3033 OR D-3034 SDR-35.
  2. CLEANOUT SHALL BE INSTALLED UPSTREAM OF THE PROPOSED 45° ANGLE.

CLEANOUT DETAIL  
NOT TO SCALE



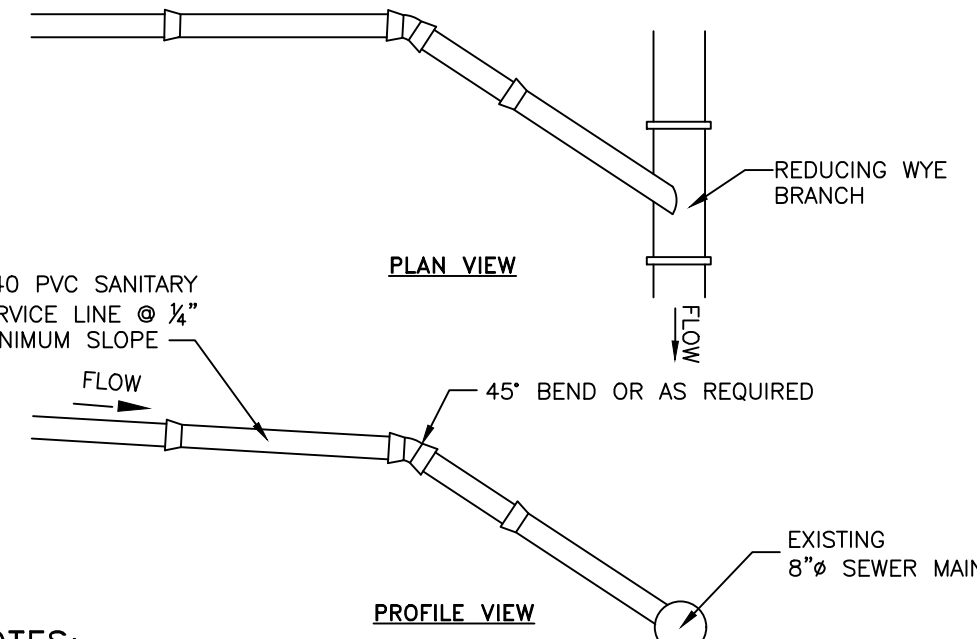
- NOTES:
1. CONCRETE COLLAR TO BE PROVIDED IN AREAS THAT ARE NOT PAVED. THE COLLAR SHALL BE 6" FROM THE COVER AND SHALL EXTEND 6" BELOW FINAL GRADE.
  2. CURB STOP TO BE COMPRESSION TYPE BY MUELLER.
  3. AREA AROUND CURB BOX TO BE BACKFILLED WITH GRAVELLY MATERIAL.

WATER SHUT-OFF VALVE DETAIL  
NOT TO SCALE



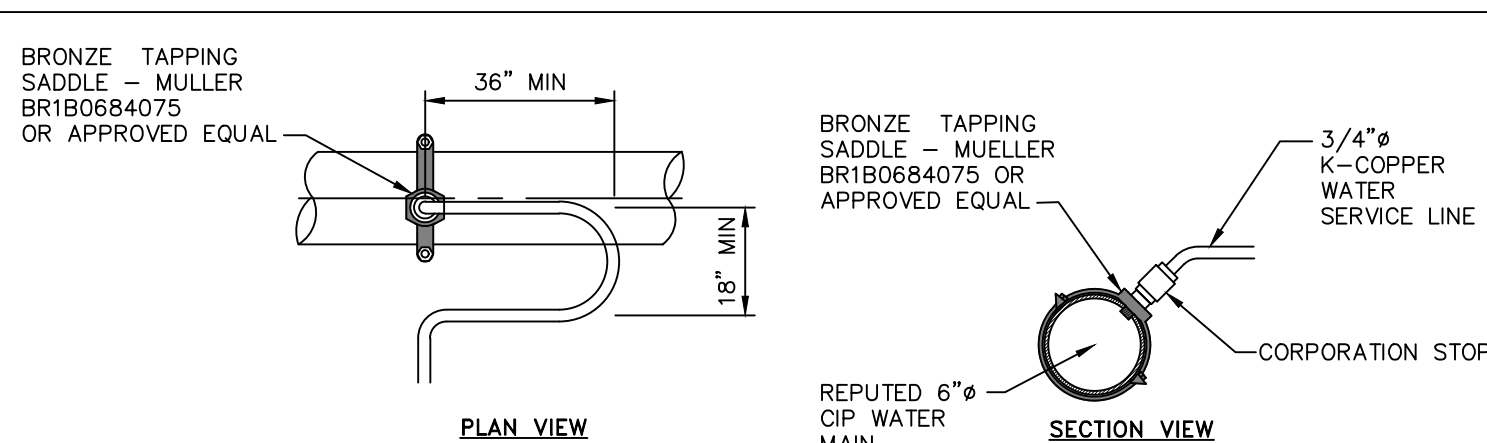
- NOTE:
1. PRE-MOLDED EXPANSION JOINTS TO BE USED AT ALL JOINTS.
  2. DRIVEWAY SHALL BE PAVED AFTER THE SIDEWALK.
  3. EXISTING SIDEWALK TO REMAIN UNTOUCHED.

DRIVEWAY ENTRANCE DETAIL  
NOT TO SCALE



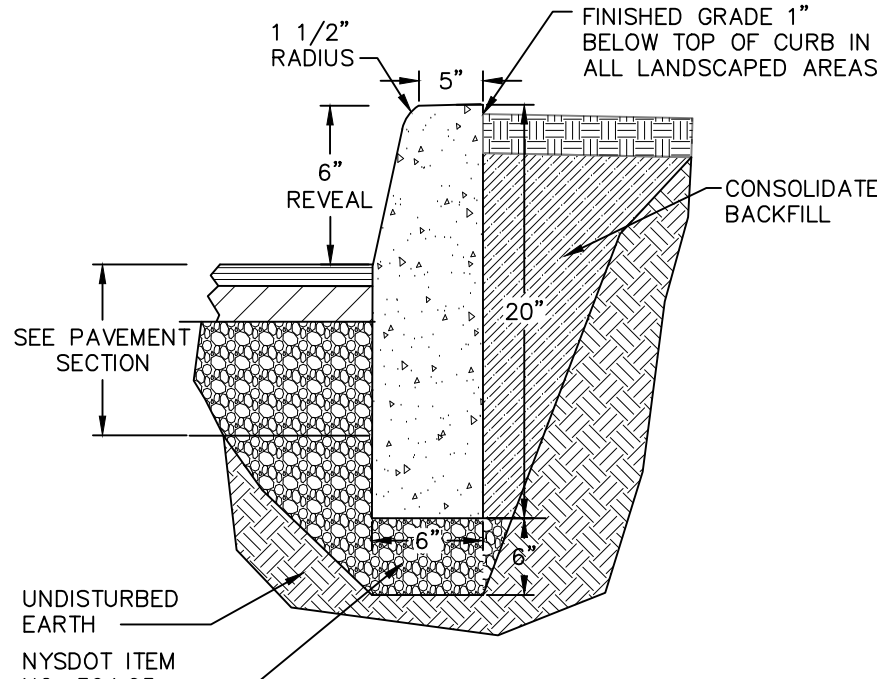
- NOTES:
1. EXCAVATION AND TRENCHING SHALL MEET ALL OSHA REQUIREMENTS.
  2. SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS, ORGANIC MATERIALS, LARGE STONES OR OTHER UNSUITABLE MATERIALS. IF THE RUN OF TRENCH MATERIAL IS FOUND TO BE UNSUITABLE, A SUITABLE BACKFILL MATERIAL SHALL BE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

SANITARY SEWER SERVICE CONNECTION DETAIL  
NOT TO SCALE



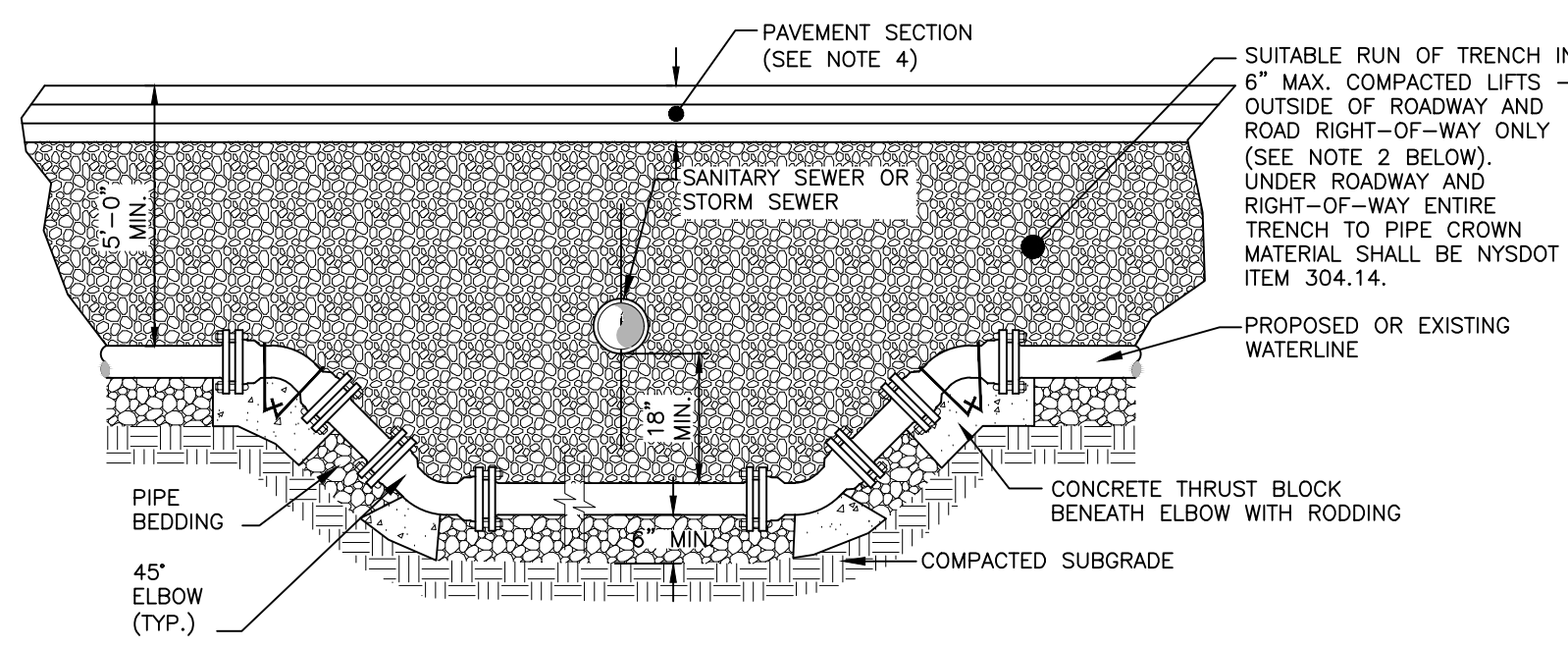
- NOTES:
1. A MINIMUM 5' COVER SHALL BE PROVIDED ON THE WATER SERVICE LINE (CONDITIONED ON ACTUAL WATER MAIN DEPTH).
  2. CORPORATION STOP TO BE COMPRESSION TYPE BY MUELLER.
  3. WATER SERVICE LINE TO HAVE A 'GOOSENECK' NEAR CORPORATION STOP.
  4. CORPORATION STOP TO BE INSTALLED IN THE UPPER HALF OF THE WATER MAIN AT AN ANGLE OF APPROXIMATELY 45° FROM HORIZONTAL.
  5. THE CONTRACTOR SHALL INSTALL A FULL BODIED STAINLESS STEEL TAPPING SLEEVE AT THE PROPOSED WATER SERVICE LOCATION.

WATER SERVICE CONNECTION DETAIL  
NOT TO SCALE



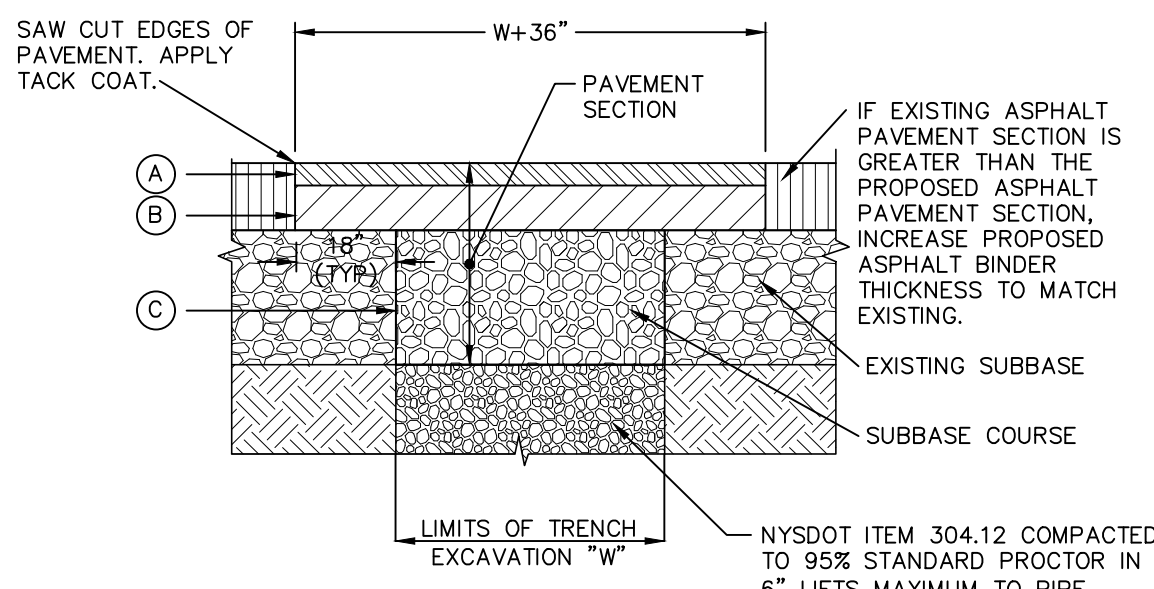
- NOTES:
1. CONCRETE CURB SHALL BE 4,000 PSI CAST-IN-PLACE, AND IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
  2. EXPANSION JOINTS OF 1/2" CELLULOSE OR SIMILAR MATERIAL SHALL BE PLACED AT 10 FOOT INTERVALS.
  3. FOR MOUNTABLE CURBS ABUTTING SIDEWALK OR OTHER HARDSCAPE, REFER TO "ABUTTING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

CAST-IN-PLACE CONCRETE CURB DETAIL  
NOT TO SCALE



- NOTES:
1. WHEN THE ELEVATION OF THE SANITARY OR STORM SEWER CAN NOT BE VARIED TO MEET THE ABOVE REQUIREMENTS, THE WATER SERVICE LINE OR MAIN SHALL BE RELOCATED TO PROVIDE THIS REQUIRED SEPARATION OR RECONSTRUCTED WITH MECHANICAL JOINT PIPE FOR A DISTANCE OF TEN (10) FEET ON EACH SIDE OF THE SEWER. ONE FULL LENGTH OF WATERMAIN SHALL BE CENTERED OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR AWAY FROM THE SEWER AS POSSIBLE.
  2. SUITABLE RUN OF TRENCH SHALL NOT INCLUDE FROZEN MATERIALS, DEBRIS, ORGANIC MATERIALS, ENLARGED PARTICLES, 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. THE RELOCATED WATER MAIN/SERVICE LINE SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA, NYSDOH AND DCDPH STANDARDS.
  4. PAVEMENT RESTORATION SHALL BE IN ACCORDANCE WITH THE PAVEMENT RESTORATION DETAIL.
  5. ALL REPLACED WATERMAIN SHALL BE 12" CLASS 52 DUCTILE IRON.

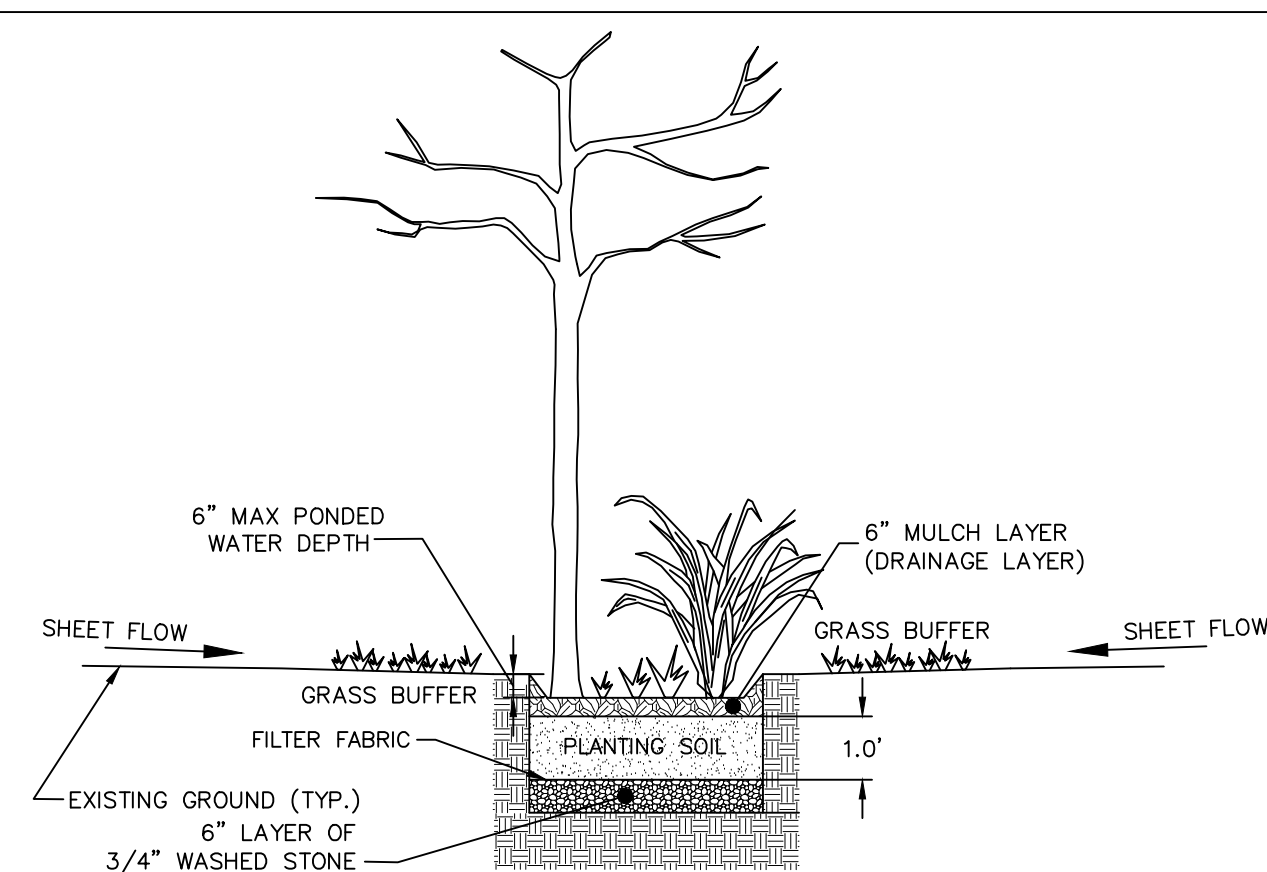
WATER LINE OFFSET DETAIL  
NOT TO SCALE



- LEGEND
- |     |  |
|-----|--|
| (A) | 1-1/2" ASPHALT CONCRETE TOP COURSE- NYSDOT TYPE 6F |
| (B) | 3.5" ASPHALT CONCRETE BINDER COURSE- NYSDOT TYPE 3 |
| (C) | 10" GRANULAR SUBBASE COURSE- NYSDOT ITEM 304.12    |

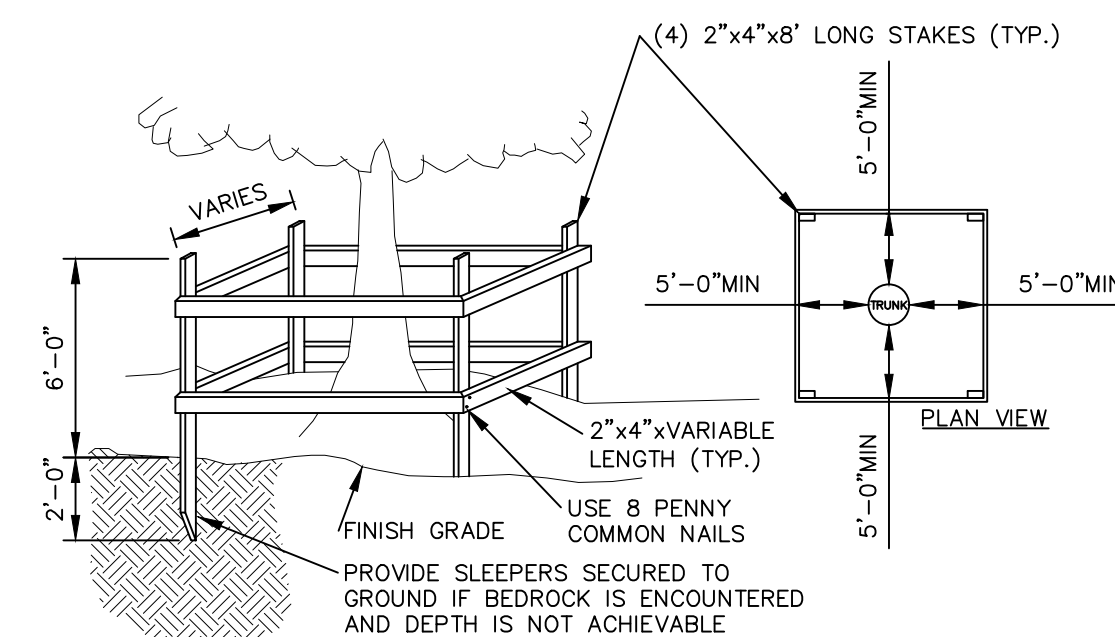
- NOTES:
1. SAW CUT MIN. 18" BEYOND EXCAVATION WITH SMOOTH EDGES. 18" JOINT BETWEEN EXISTING AND NEW TOP COURSE TO BE MILLED. JOINT TO BE SEALED WITH POLYMER MODIFIED SEALER.
  2. FURNISH, PLACE, AND COMPACT SUBBASE.
  3. TACK COAT IN ACCORDANCE WITH NYSDOT STANDARD SPEC.
  4. FURNISH AND PLACE ASPHALT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

PAVEMENT RESTORATION DETAIL  
NOT TO SCALE



- NOTES:
1. RAIN GARDEN TO HAVE A MINIMUM FOOTPRINT OF 60 SQUARE FEET WITH 10:1 SIDE SLOPES AT 0.5' DEEP, 1.0' SOIL MEDIA DEPTH, 0.5' DRAINAGE LAYER DEPTH, AND 0.5' PONDING DEPTH.
  2. DIRECT ROOF LEADER DISCHARGE TO RAIN GARDEN.
  3. PLANTS SHALL BE PLACED IN AREA SHOWN ON THE PLAN.

TYPICAL RAIN GARDEN DETAIL  
NOT TO SCALE



- NOTES:
1. REFER TO THE PLANS FOR TREES TO REMAIN. NOT ALL TREES TO REMAIN REQUIRE PROTECTION. TREE PROTECTION TO BE UTILIZED ON TREES WHERE CONSTRUCTION TRAFFIC WOULD COMPACT THE ROOT ZONE OF THE TREE.

TEMPORARY TREE PROTECTION DETAIL  
NOT TO SCALE

APPROVED BY RESOLUTION OF THE PLANNING BOARD OF THE CITY OF BEACON, NEW YORK, ON THE \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_, SUBJECT TO ALL REQUIREMENTS AND CONDITIONS OF SAID RESOLUTION, ANY CHANGE, ERASURE, MODIFICATION OR REVISION OF THIS PLAN, AS APPROVED, SHALL VOID THIS APPROVAL.

SIGNED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_, BY \_\_\_\_\_

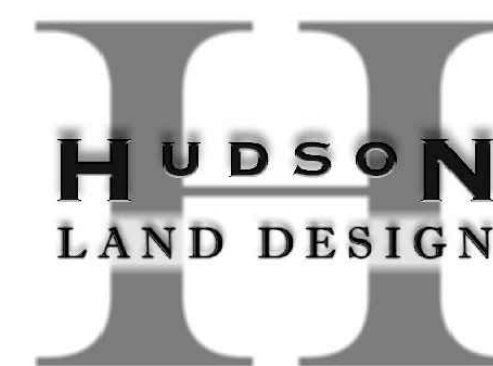
\_\_\_\_\_  
CHAIRMAN

\_\_\_\_\_  
SECRETARY

IN ABSENCE OF THE CHAIRMAN OR SECRETARY, THE ACTING CHAIRMAN OR ACTING SECRETARY RESPECTIVELY MAY SIGN IN THIS PLACE.

## CONSTRUCTION DETAILS 119 HOWLAND AVENUE

119 HOWLAND AVENUE  
CITY OF BEACON  
DUTCHESS COUNTY, NEW YORK  
TAX ID: 6054-14-278498  
SCALE: NTS  
FEBRUARY 28, 2017



HUDSON LAND DESIGN  
PROFESSIONAL ENGINEERING P.C.

174 MAIN STREET  
BEACON, NEW YORK 12508  
PH: 845-440-6926 F: 845-440-6637

SEAL  
JON D. BODENDORF, P.E.  
NYS LICENSE NO. 076245  
DANIEL G. KOEHLER, P.E.  
NYS LICENSE NO. 082716

SHEET: 4 OF 4

DRAWN BY: AG		CHECKED BY: MAB		JOB NO.: 2016-029	
REVISIONS:					
NO.	DATE	DESCRIPTION			BY
1	03/28/2017	PER CONSULTANTS COMMENTS			AG