



TOWN OF ARLINGTON

BID #20-38

**2019 WATER DISTRIBUTION
SYSTEM IMPROVEMENTS -
VARIOUS LOCATIONS**

SEPTEMBER 1, 2020

PLAN LIST:

COVER - SHEET 1

OAKLEDGE STREET - SHEET 2

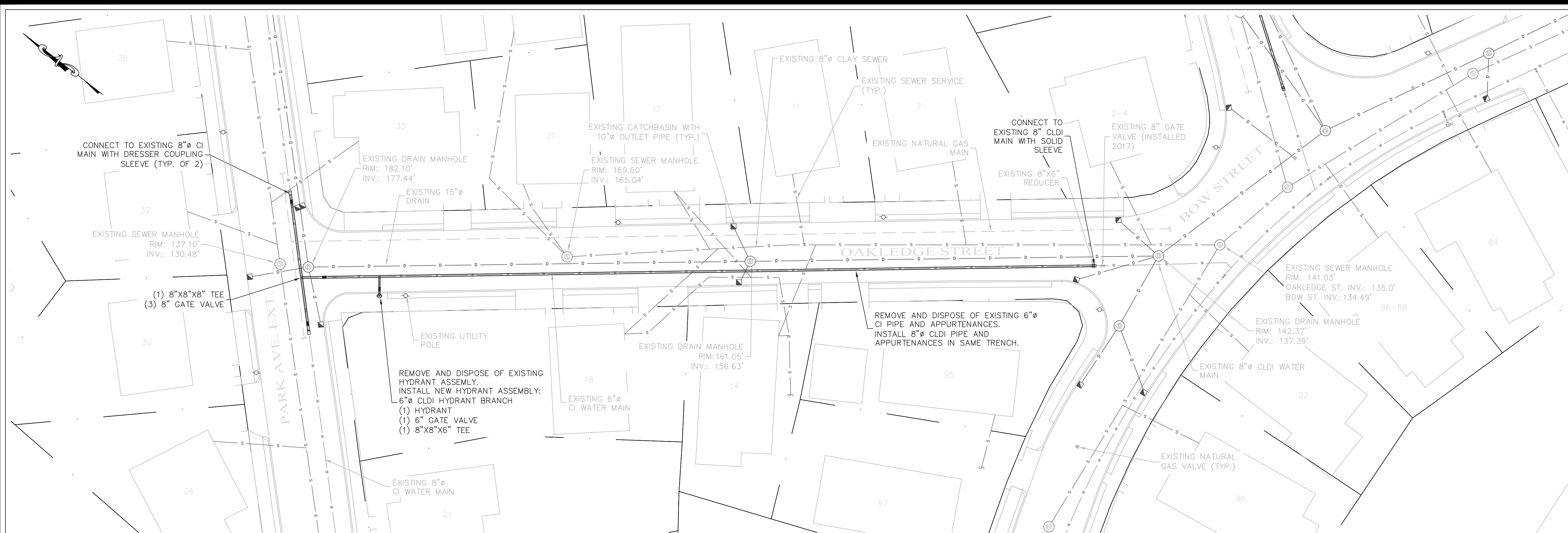
NEWLAND ROAD - SHEETS 3-4

BLOSSOM STREET - SHEET 5

BRATTLE STREET - SHEET 6-7

MASSACHUSETTS AVENUE - SHEET 8

GENERAL NOTES AND TYPICAL CONSTRUCTION DETAILS: SHEET 9



PLAN 2 - OAKLEDGE STREET
SCALE: 1"=20'

NOTES

1. Contractor shall assume that water, sewer, and gas services are located within the same trench unless otherwise noted.
2. Sidewalks on Oakledge Street are constructed of asphalt except at the intersection with Bow Street where the sidewalks and aprons are concrete.
3. Work hours on Park Avenue Extension will be limited from 9 AM to 3 PM unless otherwise approved by the Engineering Division and/or the Arlington Police Department.

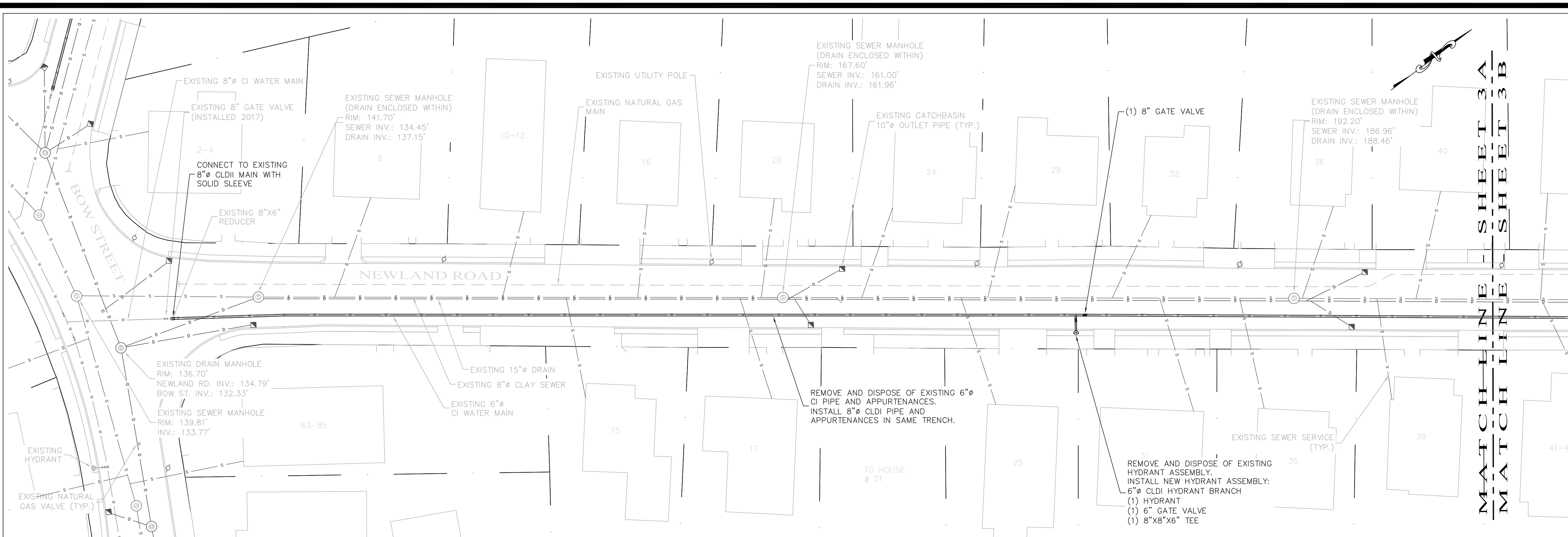
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51 Grove Street
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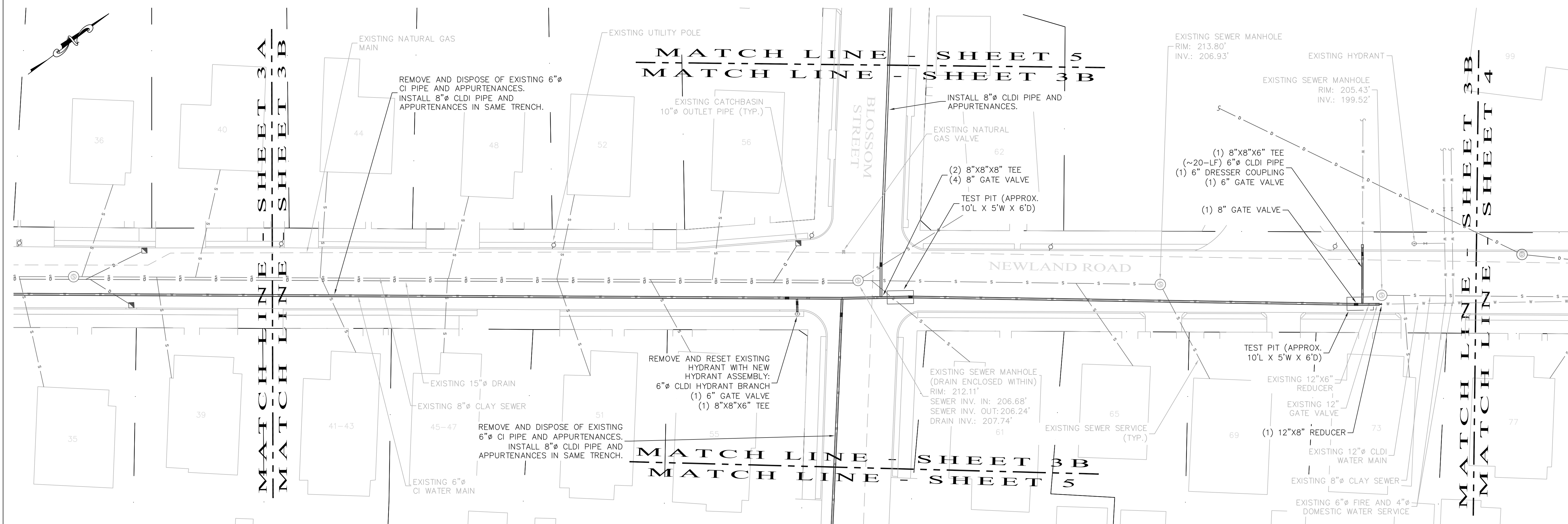
2019 WATER DISTRIBUTION SYSTEM IMPROVEMENTS

OAKLEDGE STREET

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PLAN 3A - NEWLAND ROAD
 SCALE: 1"=20'



PLAN 3B - NEWLAND ROAD
 SCALE: 1"=20'

NOTES

- Contractor shall assume that water, sewer, and gas services are located within the same trench unless otherwise noted.
- Segments of existing water main and sewer main in Newland Road are located within the same trench.
- Sidewalks on Newland Road are constructed of concrete.
- Work hours on Newland Road will be limited from 9 AM to 2 PM when school is in session unless otherwise approved by the Engineering Division and/or the Arlington Police Department.

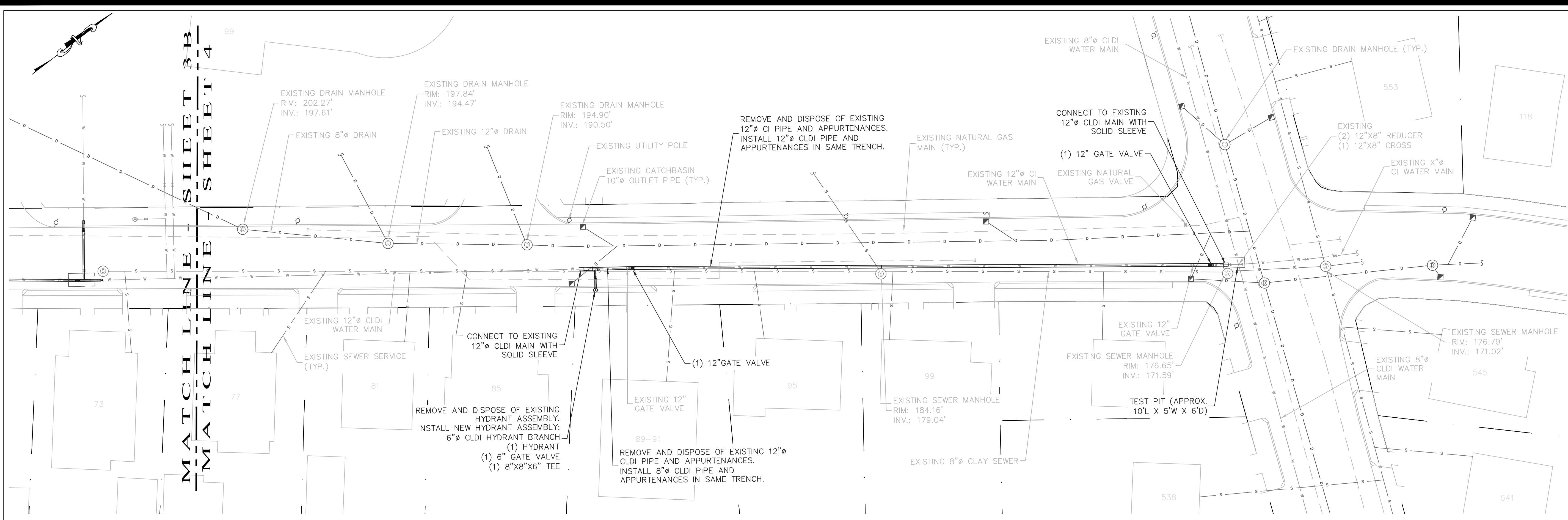
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NEWLAND ROAD

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MATCH LINE SHEET 3B
 MATCH LINE SHEET 4

PLAN 4 - NEWLAND ROAD

SCALE: 1"=20'

NOTES

1. Contractor shall assume that water, sewer, and gas services are located within the same trench unless otherwise noted.
2. Segments of existing water main and sewer main in Newland Road are located within the same trench.
3. Sidewalks on Newland Road are constructed of concrete.
4. Work hours on Newland Road will be limited from 9 AM to 2 PM when school is in session unless otherwise approved by the Engineering Division and/or the Arlington Police Department.
5. Work hours on Summer Street will be limited from 9 AM to 3 PM unless otherwise approved by the Engineering Division and/or the Arlington Police Department.

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NEWLAND ROAD

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PLAN 5 - BLOSSOM STREET

SCALE: 1"=20'

NOTES

- Existing water main on Blossom Street is transite (asbestos cement) between Park Avenue Extension and Newland Road. Contractor shall remove and dispose of AC pipe in compliance with Massachusetts Department of Environmental Protection regulations.
- Contractor shall assume that water, sewer, and gas services are located within the same trench unless otherwise noted.
- Segments of existing water main and sewer main in Blossom Street are located within the same trench.
- Sidewalks on Blossom Street are constructed of concrete.
- Work hours on Blossom Street will be limited from 9 AM to 2 PM when school is in session unless otherwise approved by the Engineering Division and/or the Arlington Police Department.
- Work hours on Park Avenue Extension will be limited from 9 AM to 3 PM unless otherwise approved by the Engineering Division and/or the Arlington Police Department.

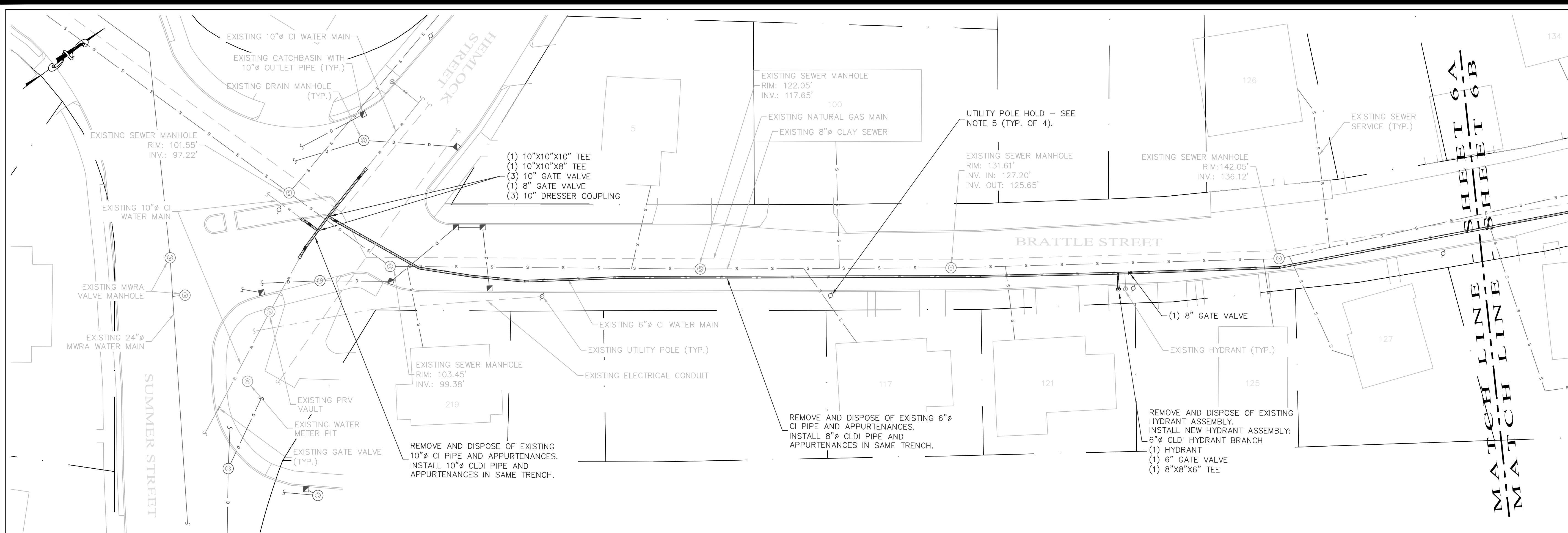
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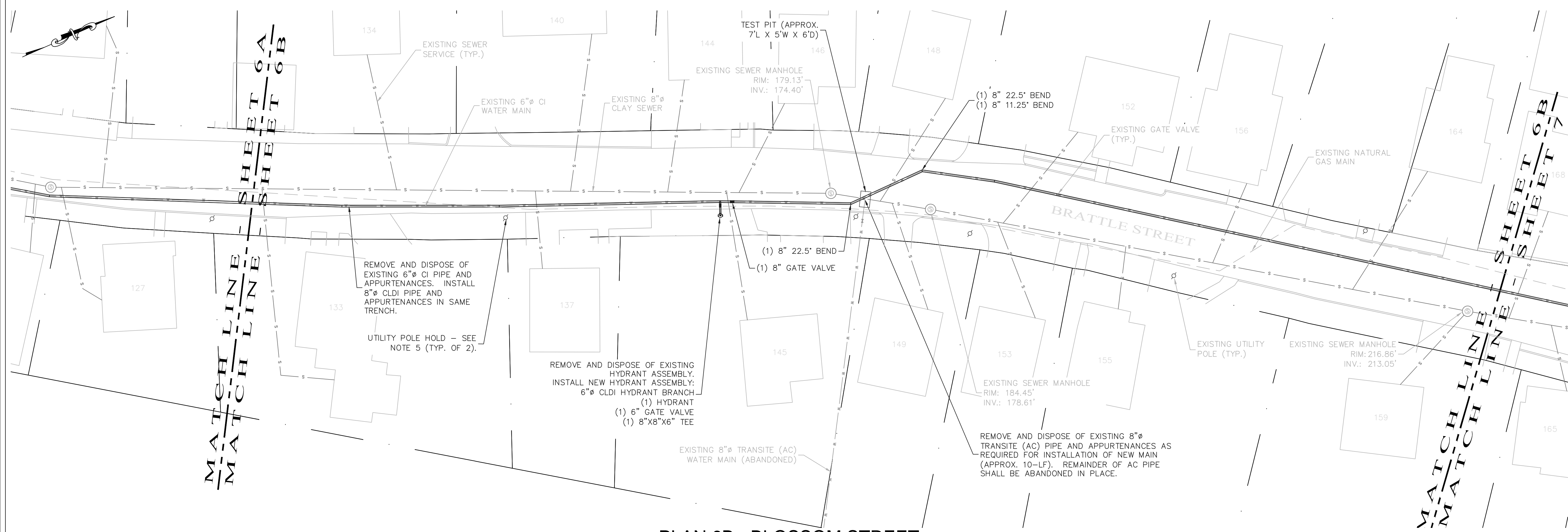
BLOSSOM STREET

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PLAN 6A - BRATTLE STREET

SCALE: 1"=20'



PLAN 6B - BLOSSOM STREET

SCALE: 1"=20'

NOTES

- Contractor shall assume that water, sewer, and gas services are located within the same trench unless otherwise noted.
- Segments of existing water main, sewer main, and drain main in Brattle Street are located within the same trench.
- Brattle Street is a Private Way and does not have sidewalks.
- Work hours on Summer Street will be limited from 9 AM to 3 PM unless otherwise approved by the Engineering Division and/or the Arlington Police Department.
- The existing and proposed water mains on Brattle Street are in close proximity to the utility poles located between the intersection of Brattle Street/Hemlock Street and #149 Brattle Street. As such it is anticipated that up to six (6) utility pole holds will be required to safely complete the water main installation along this section of road. The Contractor shall contact the utility pole owner (Verizon) to coordinate work around these utility poles, including scheduling of any necessary utility pole holds.

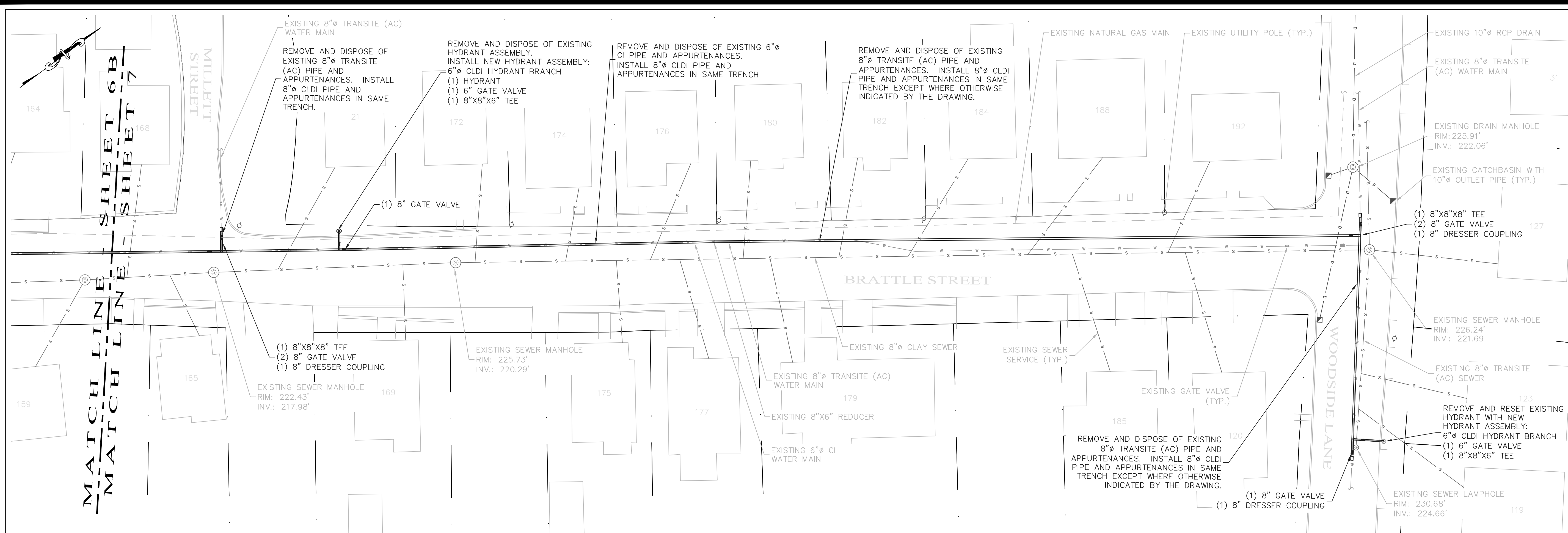
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BRATTLE STREET

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MATCH LINE
 SHEET 6B
 MATCH LINE
 SHEET 7

PLAN 7 - BRATTLE STREET

SCALE: 1"=20'

NOTES

1. Contractor shall assume that water, sewer, and gas services are located within the same trench unless otherwise noted.
2. Segments of existing water main, sewer main, and drain main in Brattle Street and Woodside Lane are located within the same trench.
3. Contractor shall assume that sewer services on Woodside Lane are transite (AC) pipe unless otherwise noted.
4. Brattle Street and Millet Street are Private Ways and do not have sidewalks.
5. Woodside Lane does not have sidewalks.

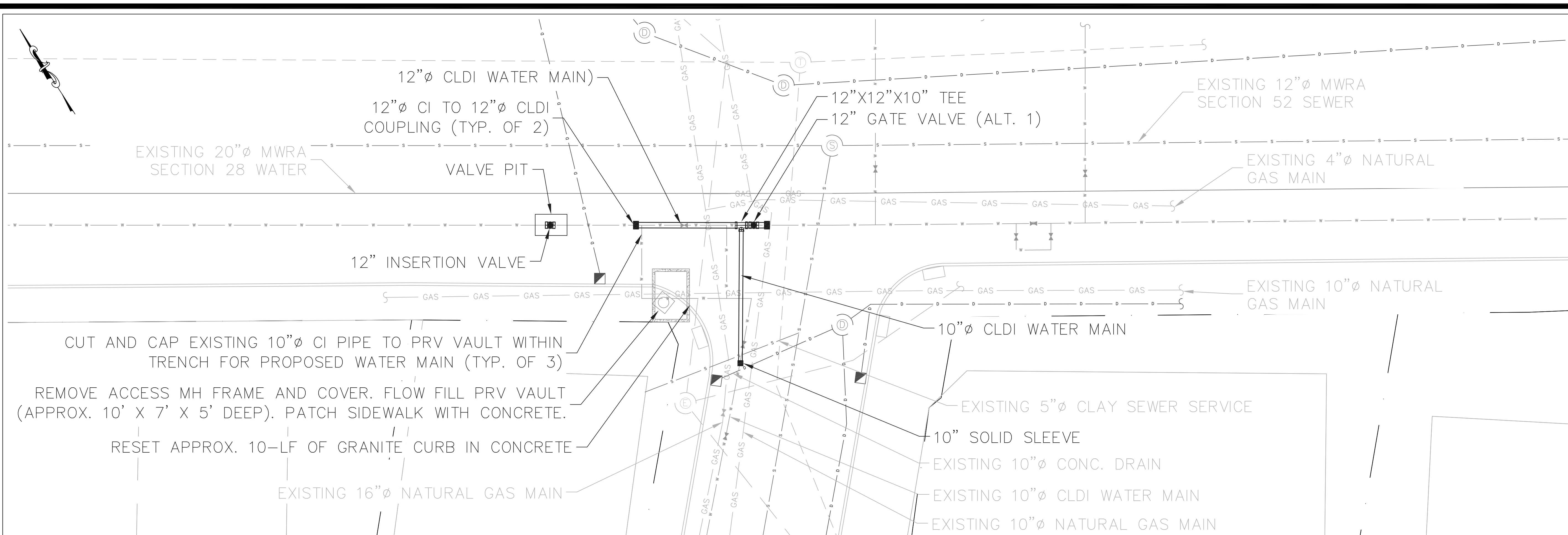
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BRATTLE STREET

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PLAN 8 - PRV (MASS AVE AT HIGHLAND AVE)

SCALE: 1"=10'

CUT AND CAP EXISTING 10"Ø CI PIPE TO PRV VAULT WITHIN TRENCH FOR PROPOSED WATER MAIN (TYP. OF 3)

REMOVE ACCESS MH FRAME AND COVER. FLOW FILL PRV VAULT (APPROX. 10' X 7' X 5' DEEP). PATCH SIDEWALK WITH CONCRETE.

RESET APPROX. 10-LF OF GRANITE CURB IN CONCRETE

NOTES

1. Temporary bypass water service shall be provided to #918 Massachusetts Avenue during construction. It shall be assumed that this address will require a new 1" copper service (~15-LF) and curb stop upon the new water main being placed into service.
2. The proposed water main shall be disinfected and dechlorinated upon completion of the installation. Water samples must be collected and passing results received on two consecutive days prior to the new section of water main being placed in service.
3. All trenches/excavations and the PRV vault shall be backfilled with controlled density fill (flow fill) up unless otherwise noted or approved by the Engineering Division.
4. A minimum of 6-inches of bituminous concrete, applied in at least two lifts, shall be provided on all trenches. Trenches shall be paved daily and no road plates shall be used without prior approval of the Arlington Engineering Division or Arlington Police Department.
5. Best efforts shall be made to avoid impacts to traffic signals, traffic signal loops, and associated equipment during construction.
6. Work hours shall be 9 AM to 3 PM unless otherwise approved by the Engineering Division and/or the Arlington Police Department.

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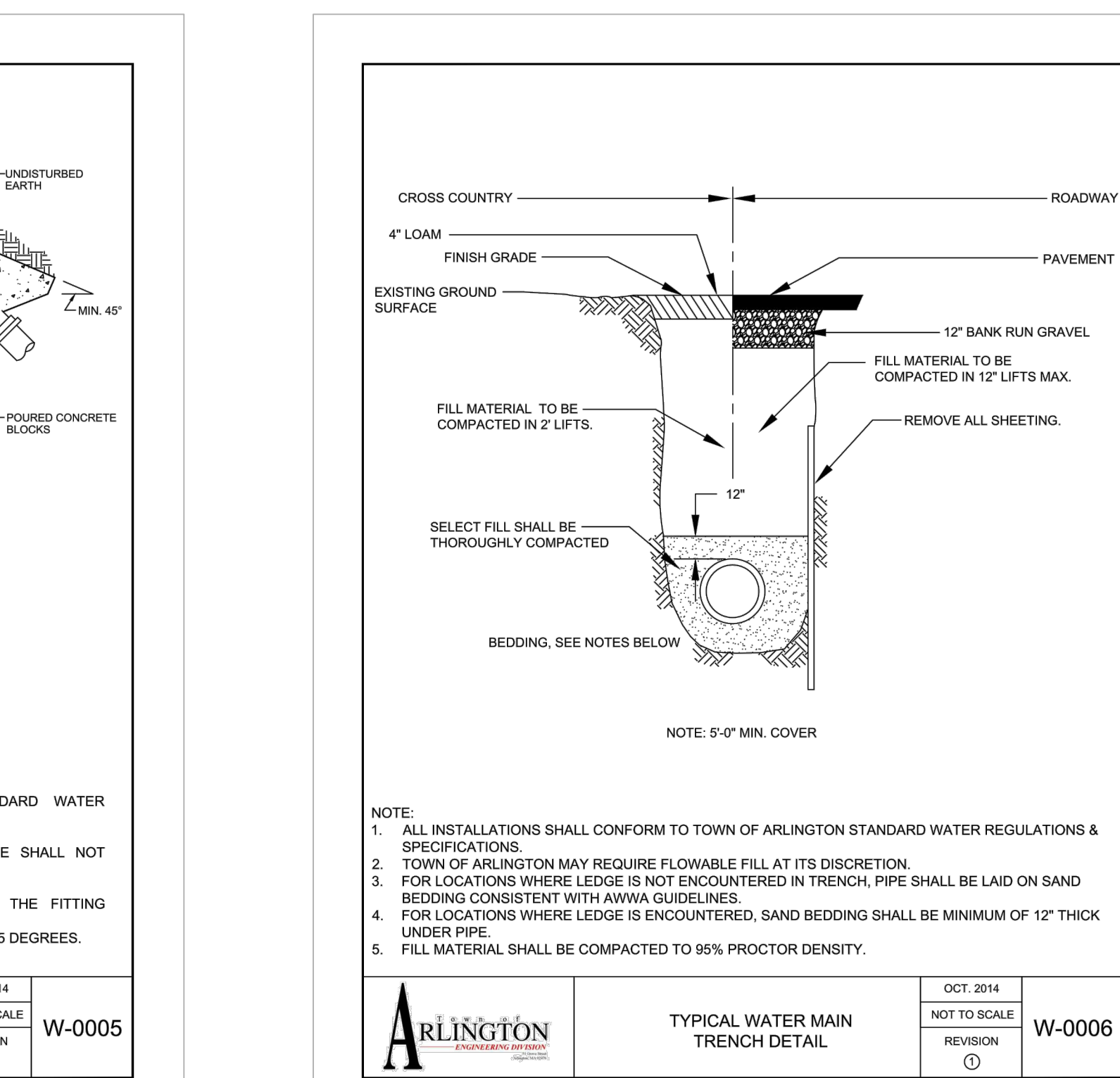
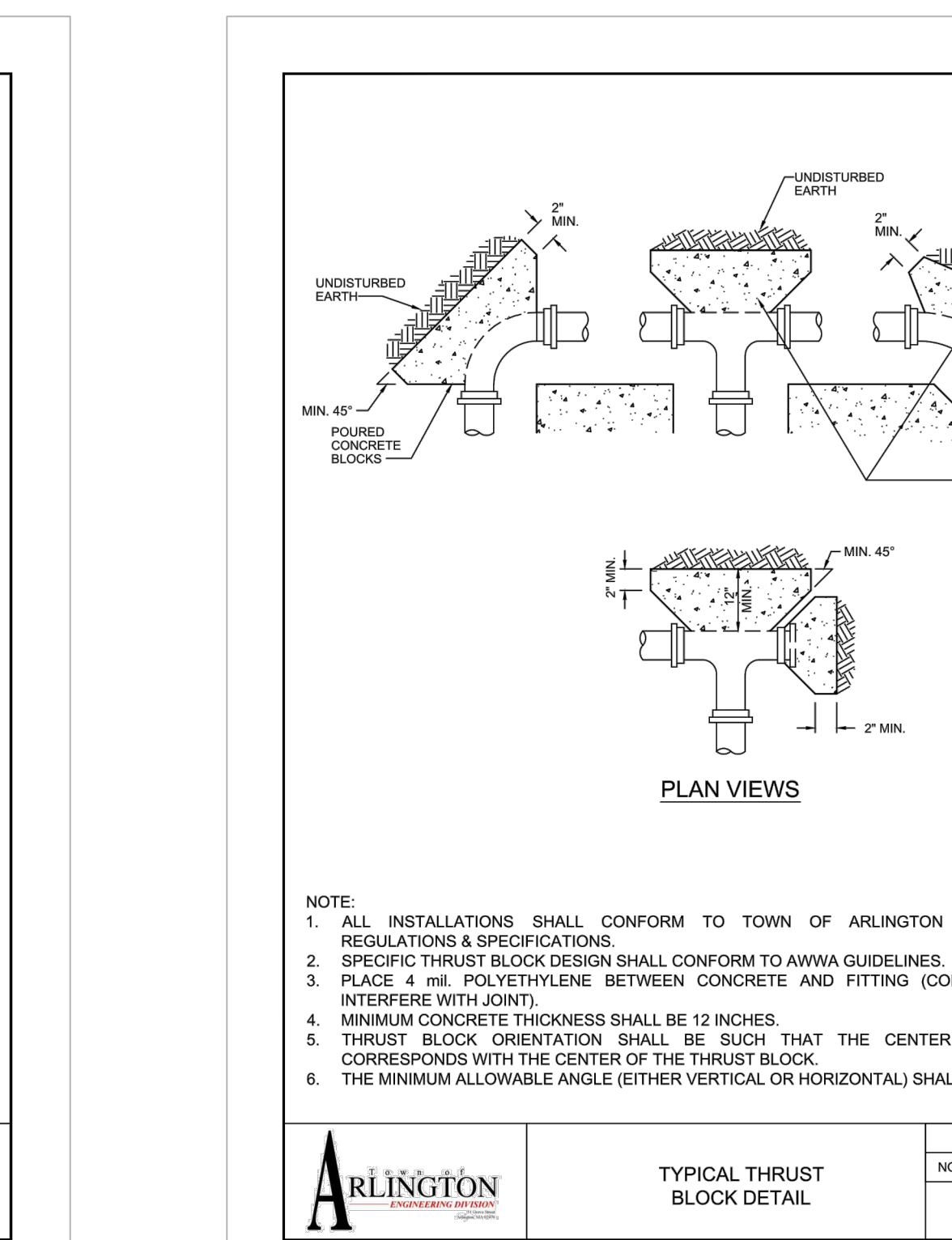
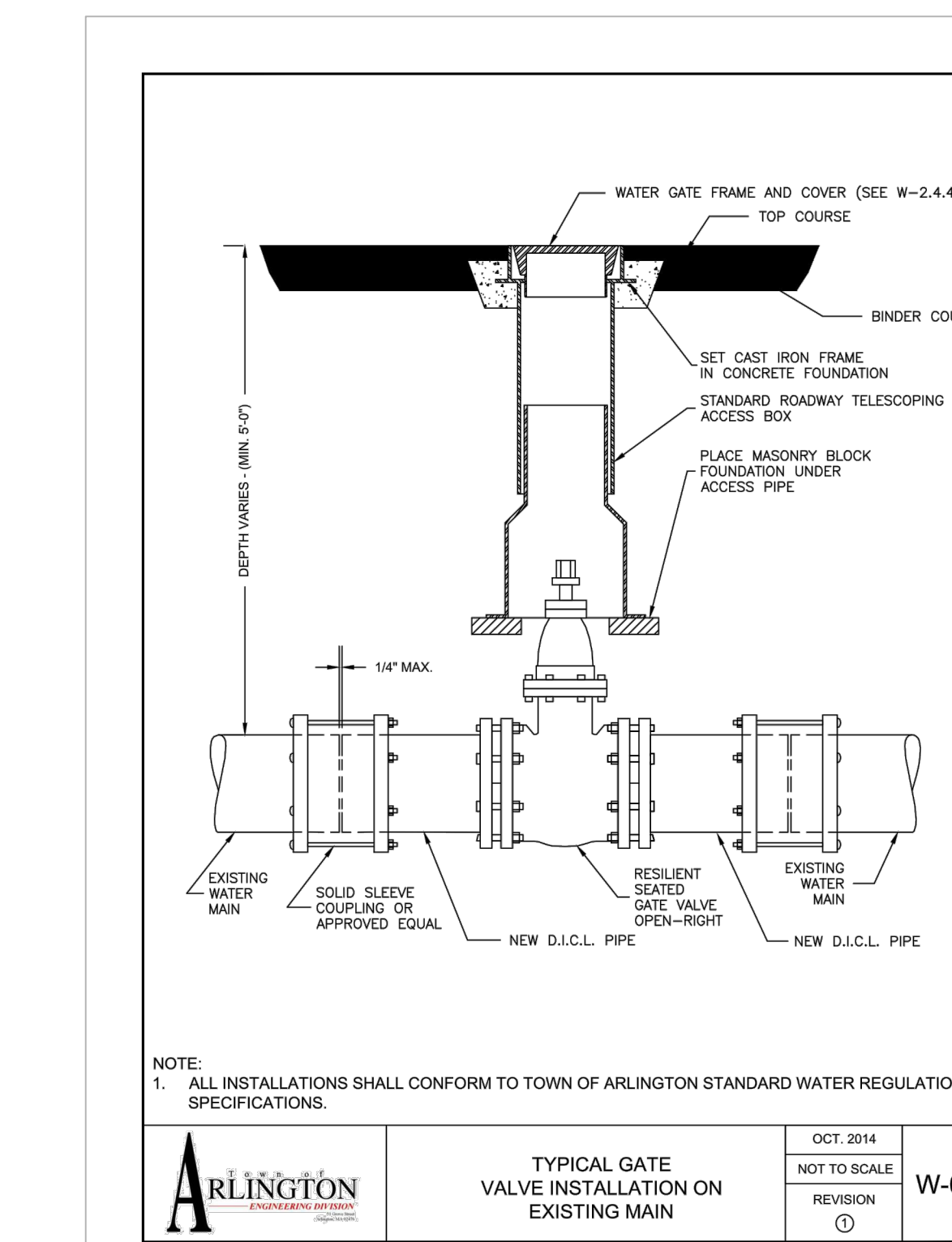
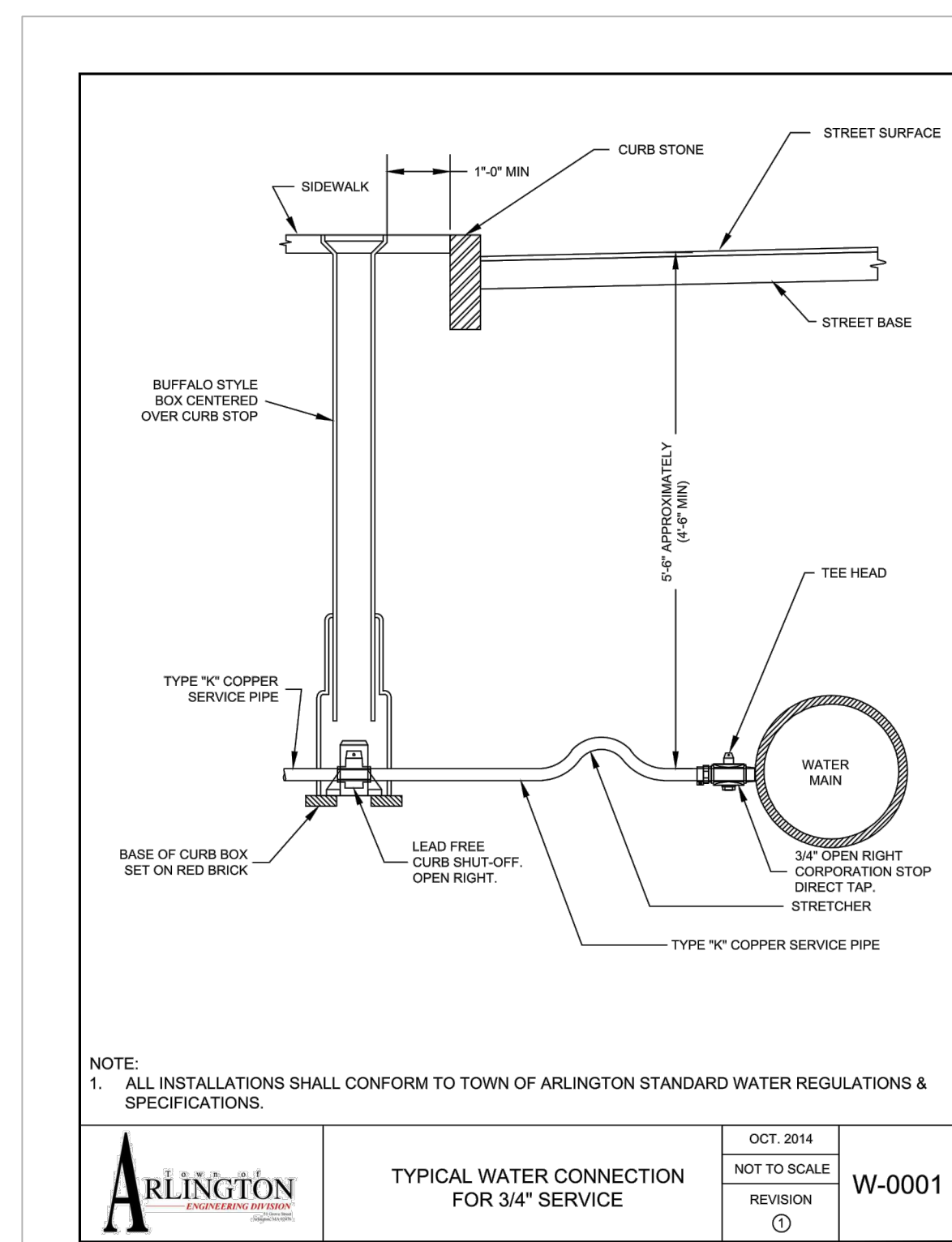
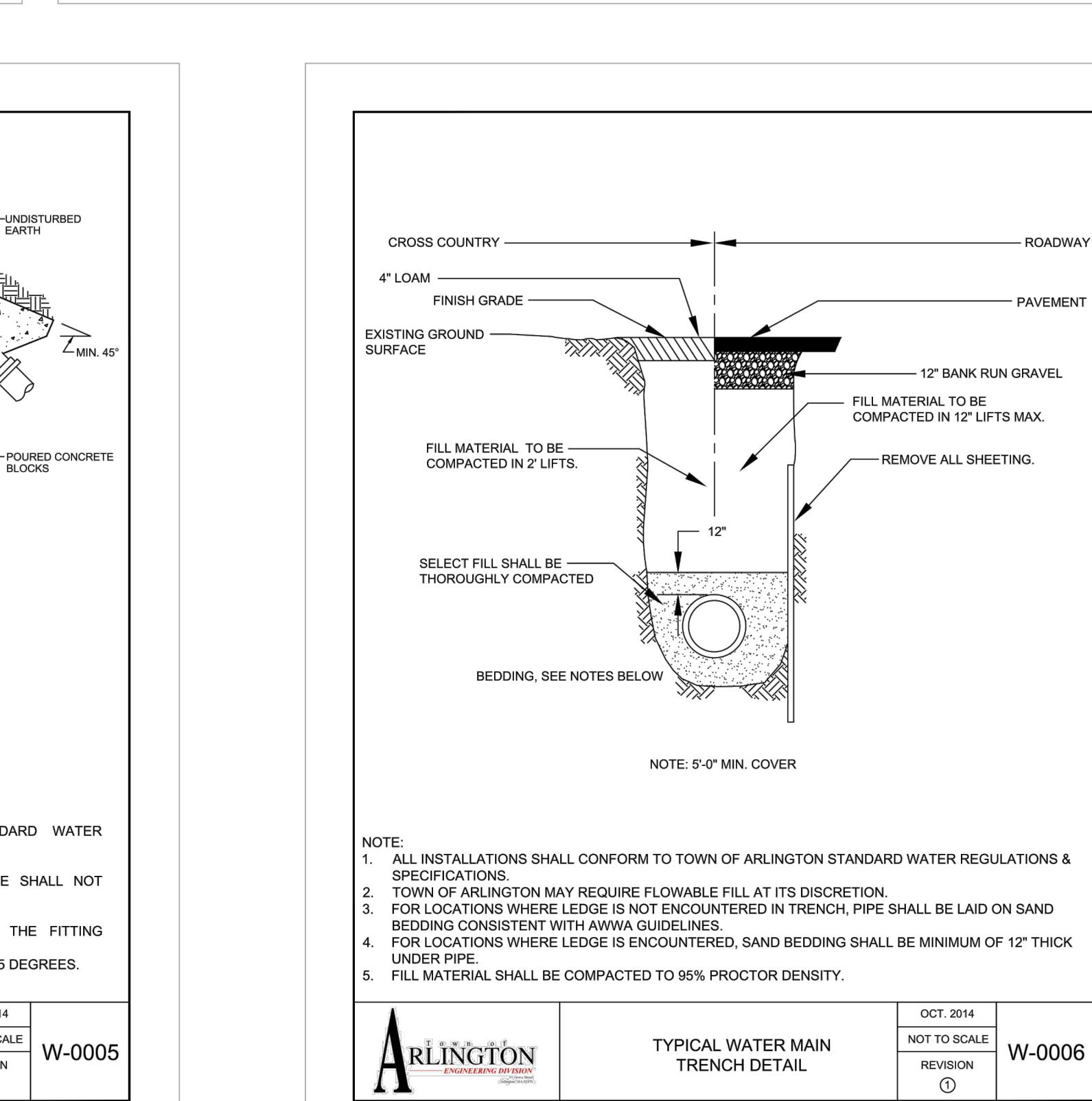
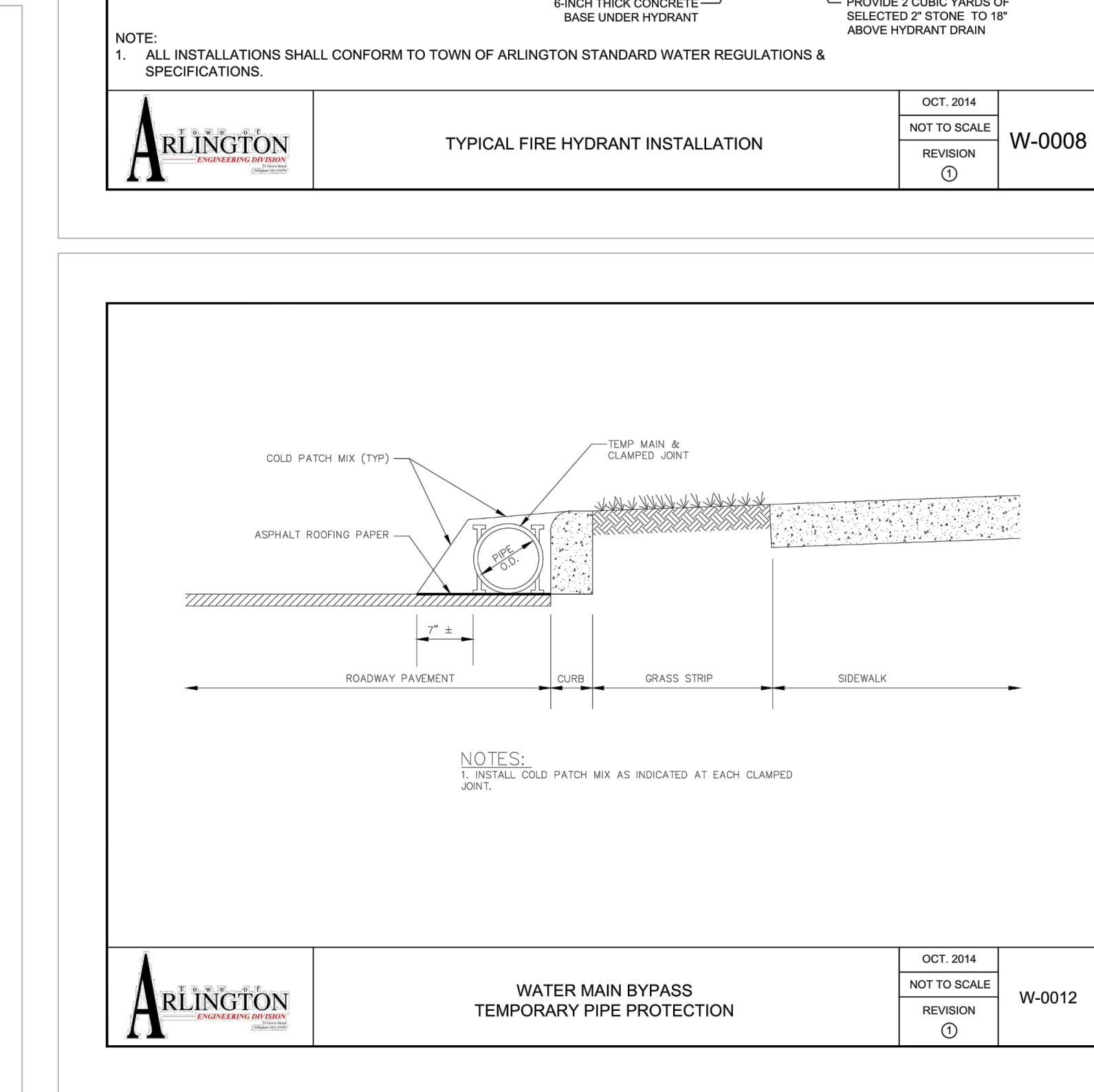
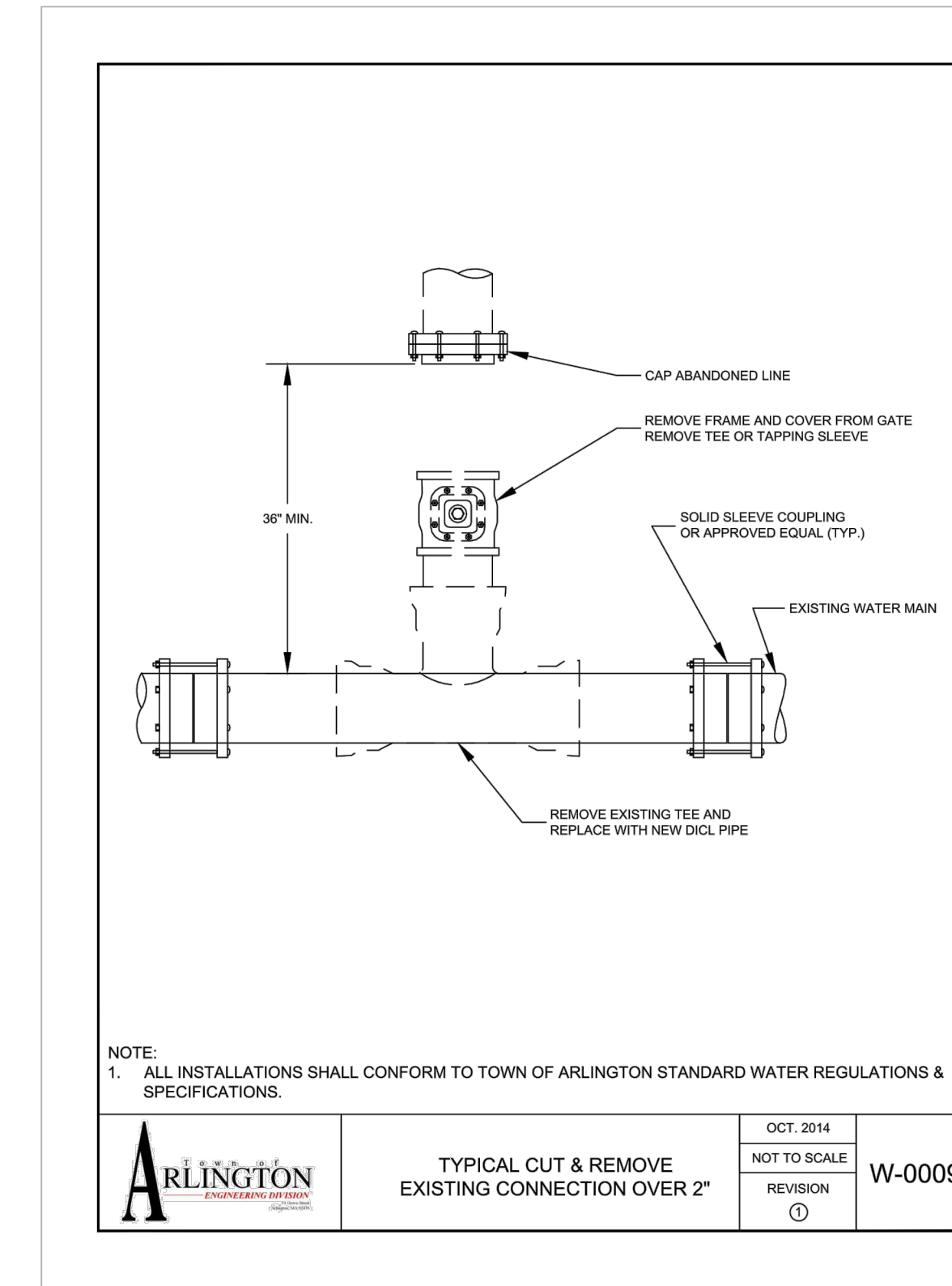
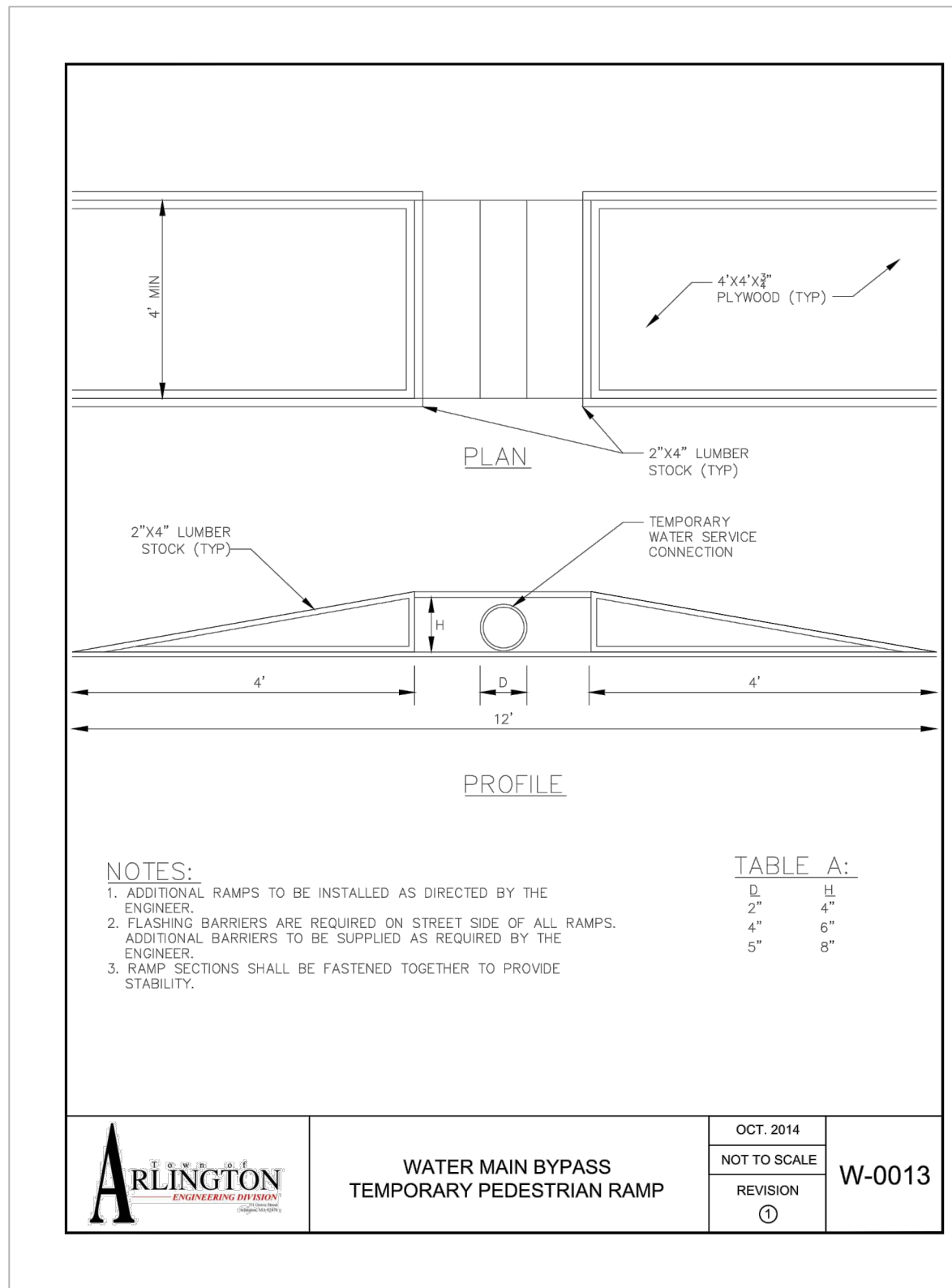
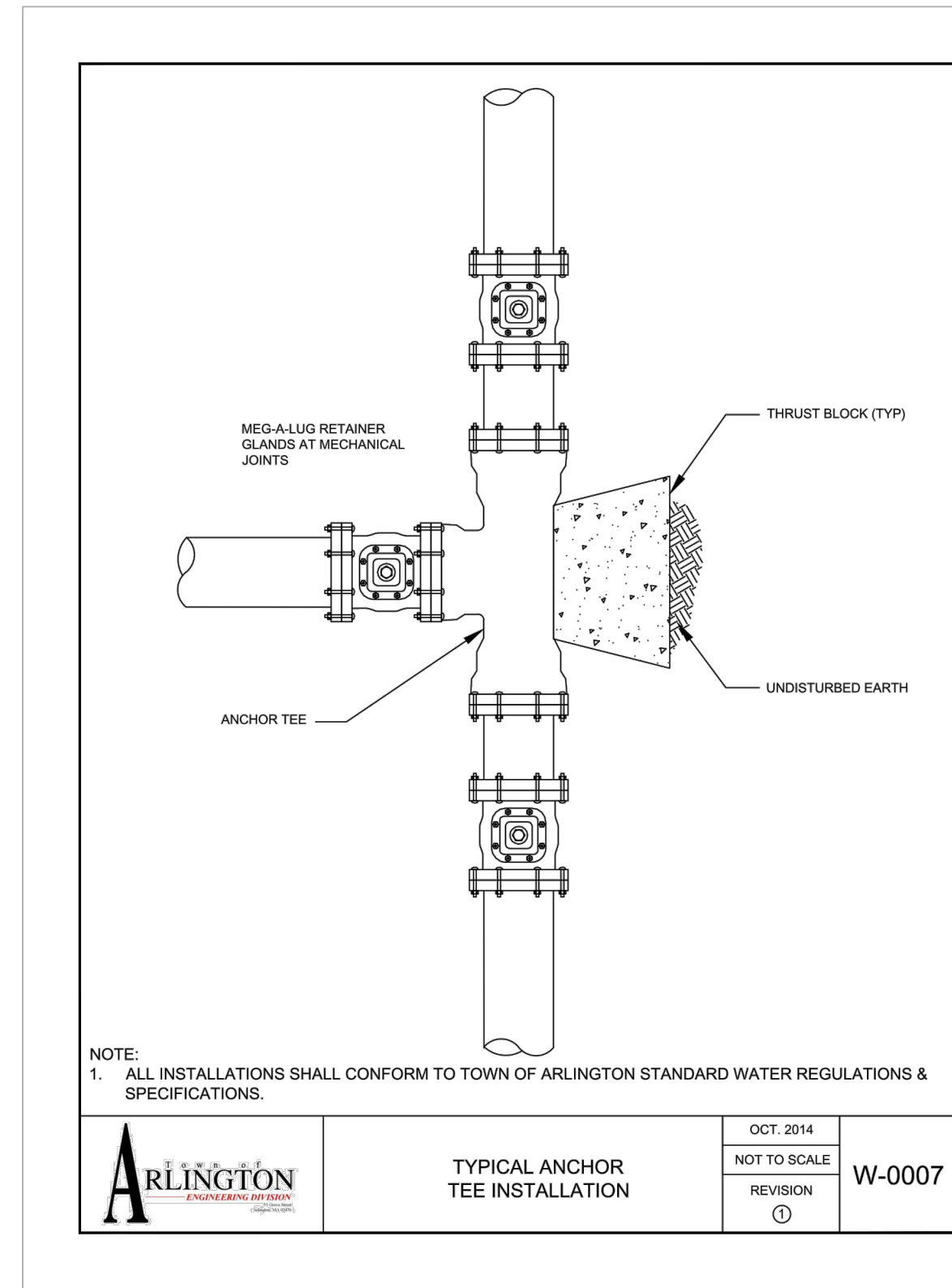
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MASS. AVE AT HIGHLAND AVE. PRV

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GENERAL NOTES:

- PLANS WERE DEVELOPED USING AVAILABLE AERIAL IMAGERY, EXISTING PLANS, AND ON-SITE OBSERVATIONS. A SURVEY OF THE PROJECT AREA WAS NOT CONDUCTED. THE LOCATIONS OF THE FEATURES SHOWN ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATIONS OF ANY EXISTING UTILITIES AND/OR FEATURES NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE TOWN OF ARLINGTON ENGINEERING DIVISION AND/OR THE WATER AND SEWER DIVISION OF ALL DISCREPANCIES IDENTIFIED IN THE FIELD.
- ALL ON-SITE DRAINAGE CATCH BASINS SHALL BE EQUIPPED WITH AN INLET PROTECTION DEVICE DURING ALL CONSTRUCTION ACTIVITIES. ANY SEDIMENT THAT ENTERS THE TOWN'S STORMWATER SYSTEM AS A RESULT OF THIS WORK SHALL BE REMOVED BY THE CONTRACTOR AT THEIR EXPENSE.
- STREETS SHALL BE SWEEPED AND CLEANED OF SEDIMENT AND DEBRIS AT THE END OF EACH WORK DAY.
- ANY AREA DISTURBED BY THE CONTRACTOR OUTSIDE THE LIMITS OF WORK SHALL BE RESTORED TO ORIGINAL CONDITION AT NOT COST TO THE OWNER.
- THE CONTRACTOR MUST NOTIFY ALL UTILITIES PRIOR TO PERFORMING ANY EXCAVATION WORK. THE TOWN OF ARLINGTON IS NOT A MEMBER OF "DIG-SAFE" AND MUST BE NOTIFIED DIRECTLY AT LEAST 72-HOURS PRIOR TO ANY EXCAVATION AT 781-316-3310 OR 781-316-3301.
- THE LOCATION, NUMBER, AND TYPE OF PROPOSED FITTINGS SHOWN ON THESE PLANS ARE INTENDED FOR ILLUSTRATIVE PURPOSES ONLY. FIELD CONDITIONS WILL DICTATE THE LOCATION, NUMBER, AND TYPE OF FITTINGS REQUIRED. ALL INSTALLATION SHALL BE TO THE FULL SATISFACTION OF THE TOWN OF ARLINGTON.
- THE CONTRACTOR SHALL ANTICIPATE THAT TRENCH ROCK/LEDGE WILL BE PRESENT BELOW AND TO THE SIDES OF THE EXISTING WATER MAIN TRENCHES. ADDITIONAL TRENCH ROCK/LEDGE SHALL BE REMOVED TO THE EXTENTS APPROVED BY THE ENGINEERING DIVISION TO PROVIDE PROPER BURY DEPTH OF THE PROPOSED CLDI WATER MAIN. CARE SHALL BE TAKEN NOT TO DISRUPT NEARBY UTILITIES DURING THE REMOVAL OF TRENCH ROCK/LEDGE.
- THE CONTRACTOR SHALL ASSUME THAT THE EXISTING WATER, SEWER, AND NATURAL GAS HOUSE SERVICES ARE LOCATED WITHIN THE SAME TRENCH. THE CONTRACTOR SHALL ASSUME THAT ALL SEWER SERVICE LATERALS ARE 4-6" CLAY PIPE UNLESS OTHERWISE NOTED ON THE PLANS.
- THE LOCATION OF THE PROPOSED WATER SERVICE PIPES ARE NOT SHOWN ON THESE PLANS. THE LOCATION OF THE NEW 3/4" COPPER SERVICE PIPES SHALL BE FIELD DETERMINED AND LAID OUT TO THE SATISFACTION AND APPROVAL OF THE TOWN OF ARLINGTON.
- TRENCHES SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED IN LAYERS NOT OVER 6" DEEP USING MECHANICAL COMPACTORS OR JET-RODDING. BACKFILL MATERIALS SHALL BE COMPACTED TO A 95% MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO STANDARD TEST T99 METHOD C.



NOTES

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GENERAL NOTES AND STANDARD CONSTRUCTION DETAILS

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