

FIGURE 1
(NOT TO SCALE)

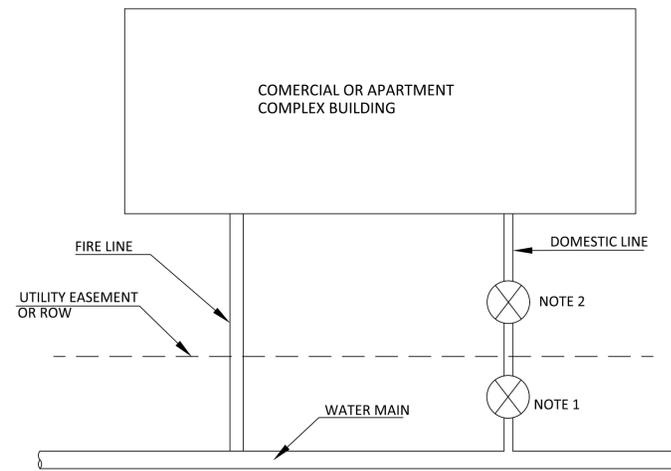


FIGURE 2
(NOT TO SCALE)

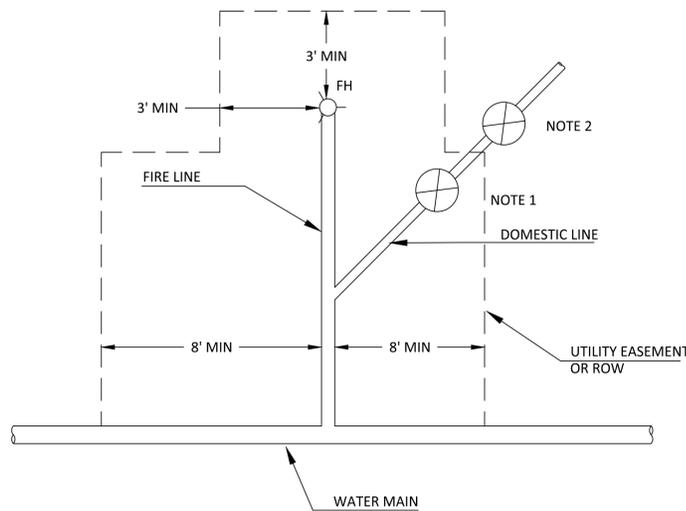


FIGURE 3
(NOT TO SCALE)

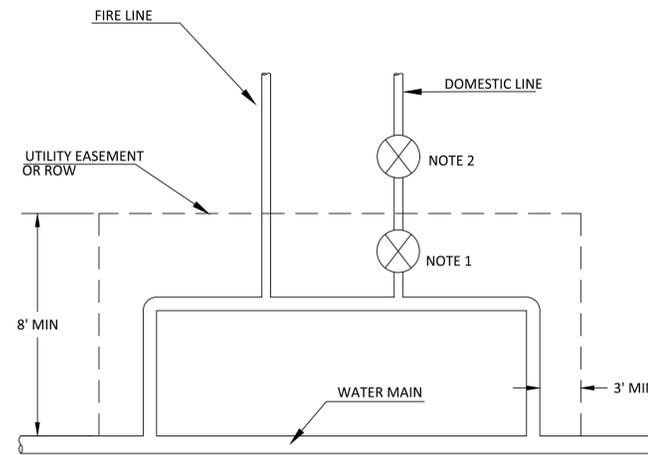
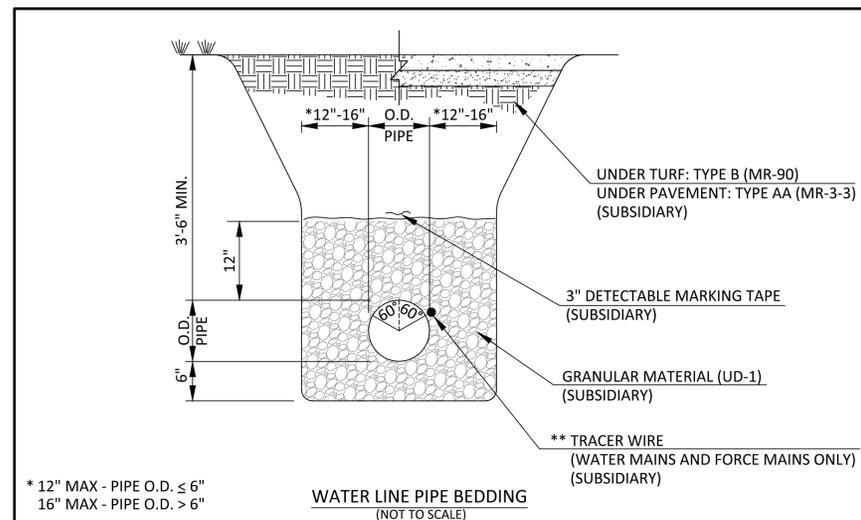


FIGURE 4
(NOT TO SCALE)

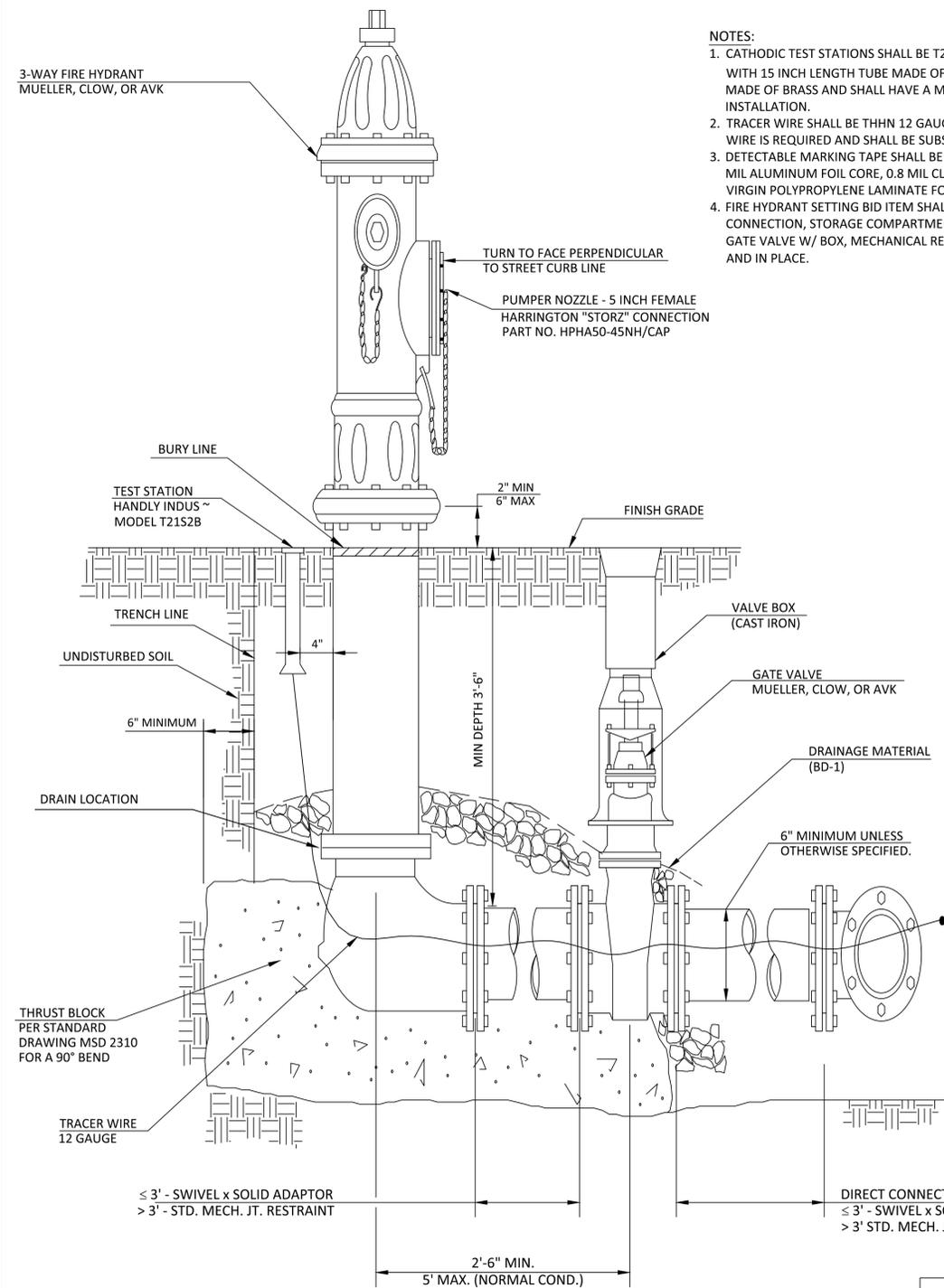
- NOTES:
1. IF LOCATED INSIDE THE UTILITY EASEMENT OR RIGHT OF WAY, THE CITY OF MANHATTAN WILL MAINTAIN WATER LINE, HYDRANT, FIRE LINE, AND METER.
 2. IF LOCATED OUTSIDE THE UTILITY EASEMENT OR RIGHT OF WAY, THE CITY OF MANHATTAN WILL MAINTAIN ONLY THE METER.
 3. FIRE LINE SERVING HYDRANT MUST BE 6" DIA OR LARGER.
 4. HYDRANTS ON FIRE LINE MUST BE INCLUDED IN EASEMENT.

LEGEND

- METER
- FIRE HYDRANT



- WATER LINE PIPE BEDDING
(NOT TO SCALE)
- * 12" MAX - PIPE O.D. ≤ 6"
 - * 16" MAX - PIPE O.D. > 6"
 - ** TRACER WIRE TO BE TAPED TO PIPE WITHIN 60° OF CROWN ON EITHER SIDE OF PIPE. TRACER WIRE SHALL NOT BE PLACED DIRECTLY ON THE CROWN.



FIRE HYDRANT SETTING
(NOT TO SCALE)

- NOTES:
1. CATHODIC TEST STATIONS SHALL BE T2IS2B OF HANDLY INDUSTRIES INC., BLUE CAST IRON TOP WITH 15 INCH LENGTH TUBE MADE OF ABS AND 2-3/8 INCH DIA. ID. TWO TERMINAL BLOCKS MADE OF BRASS AND SHALL HAVE A MINIMUM OF 12" OF SLACK WIRE INSIDE AFTER FINAL INSTALLATION.
 2. TRACER WIRE SHALL BE THHN 12 GAUGE SINGLE STRAND COPPER WIRE INSULATED. TRACER WIRE IS REQUIRED AND SHALL BE SUBSIDIARY TO ALL WATER LINE INSTALLATIONS.
 3. DETECTABLE MARKING TAPE SHALL BE 3" WIDE, BLUE, LABELED FOR WATERLINE WITH A 0.35 MIL ALUMINUM FOIL CORE, 0.8 MIL CLEAR VIRGIN POLYPROPYLENE FILM, AND 3.75 MIL CLEAR VIRGIN POLYPROPYLENE LAMINATE FOR A TOTAL THICKNESS OF 5.0 MIL.
 4. FIRE HYDRANT SETTING BID ITEM SHALL INCLUDE THE 3-WAY FIRE HYDRANT, STORZ CONNECTION, STORAGE COMPARTMENT, CONCRETE THRUST BLOCK, GRANULAR MATERIAL, GATE VALVE W/ BOX, MECHANICAL RESTRAINT, AND ALL NECESSARY EXCAVATION; COMPLETE AND IN PLACE.

NO.	DATE	DESCRIPTION	BY
	2020.01.16	UPDATED DETAIL	

City of Manhattan Kansas
PUBLIC WORKS
1101 POYNTZ AVE., MANHATTAN, KS 66502 (785) 587-2415

MANHATTAN STANDARD DETAILS
MSD 2320 WATER LINE STANDARDS

CITY ENGINEER: BRIAN JOHNSON, P.E. DESIGN BY:
CITY PROJ. #:
DATE: DRAWN BY: PAGE OF

