

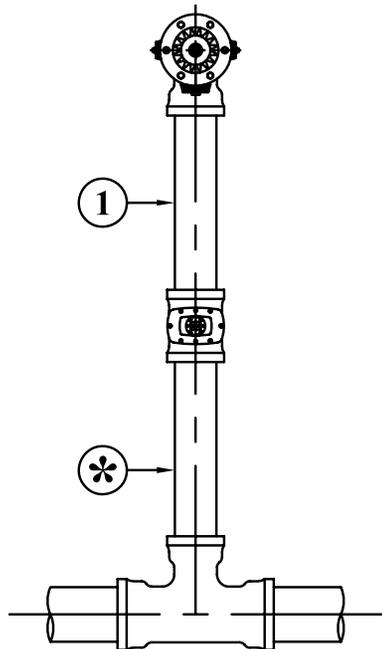
CLEVELAND DIVISION
OF WATER
CONSTRUCTION
STANDARDS

Hydrant Details

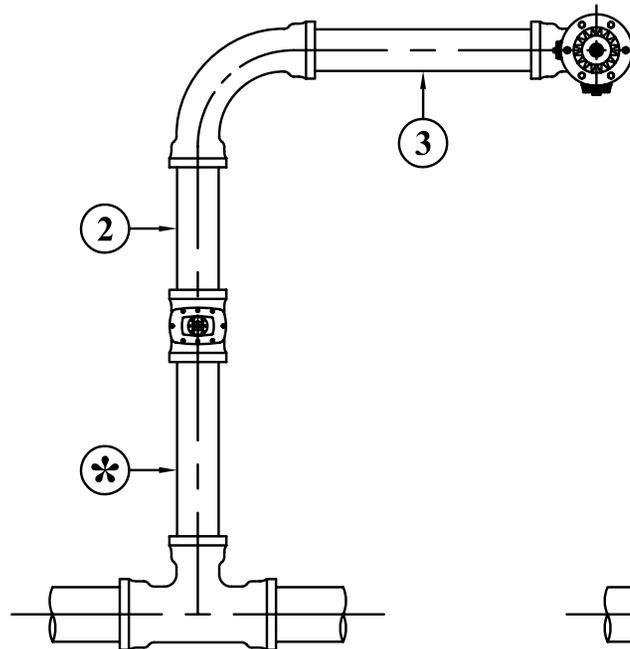
* IF CUTS ARE REQUIRED BETWEEN THE TEE AND VALVE,
TOTAL REPLACEMENT WILL BE REQUIRED.
SEE DETAILS STD-H06 STD-H07.

* * IF EXISTING HYDRANT BRANCH VALVE IS 4" IN DIAMETER
TOTAL REPLACEMENT WILL BE REQUIRED UNLESS SPECIFIC
PERMISSION IS GRANTED BY THE DIVISION OF WATER ON A
CASE BY CASE BASIS.

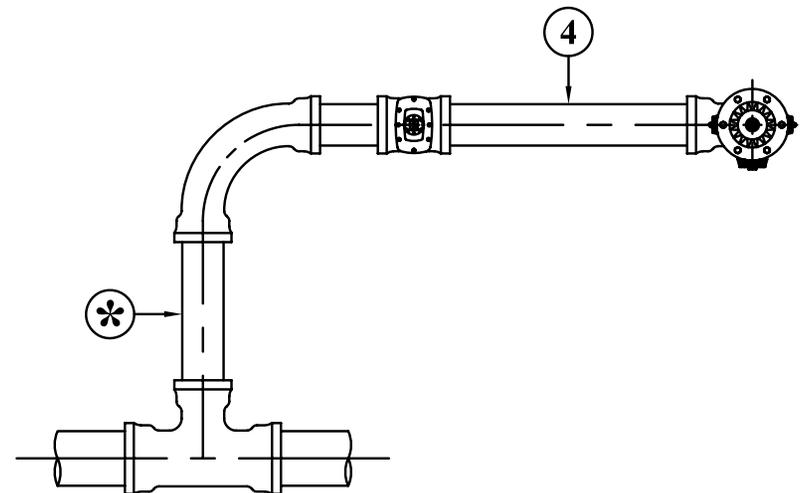
CUT AT	SEE DETAIL
①	STD-H02 FOR STRAIGHT TYPE
②	STD-H03 FOR OFFSET TYPE 1
③	STD-H04 FOR OFFSET TYPE 2
④	STD-H05 FOR OFFSET TYPE 3
TOTAL REPLACEMENT	STD-H06 FOR STRAIGHT TYPE STD-H07 FOR OFFSET TYPE 1 & TYPE 2 & TYPE 3



STRAIGHT TYPE



OFFSET TYPE 1 & 2

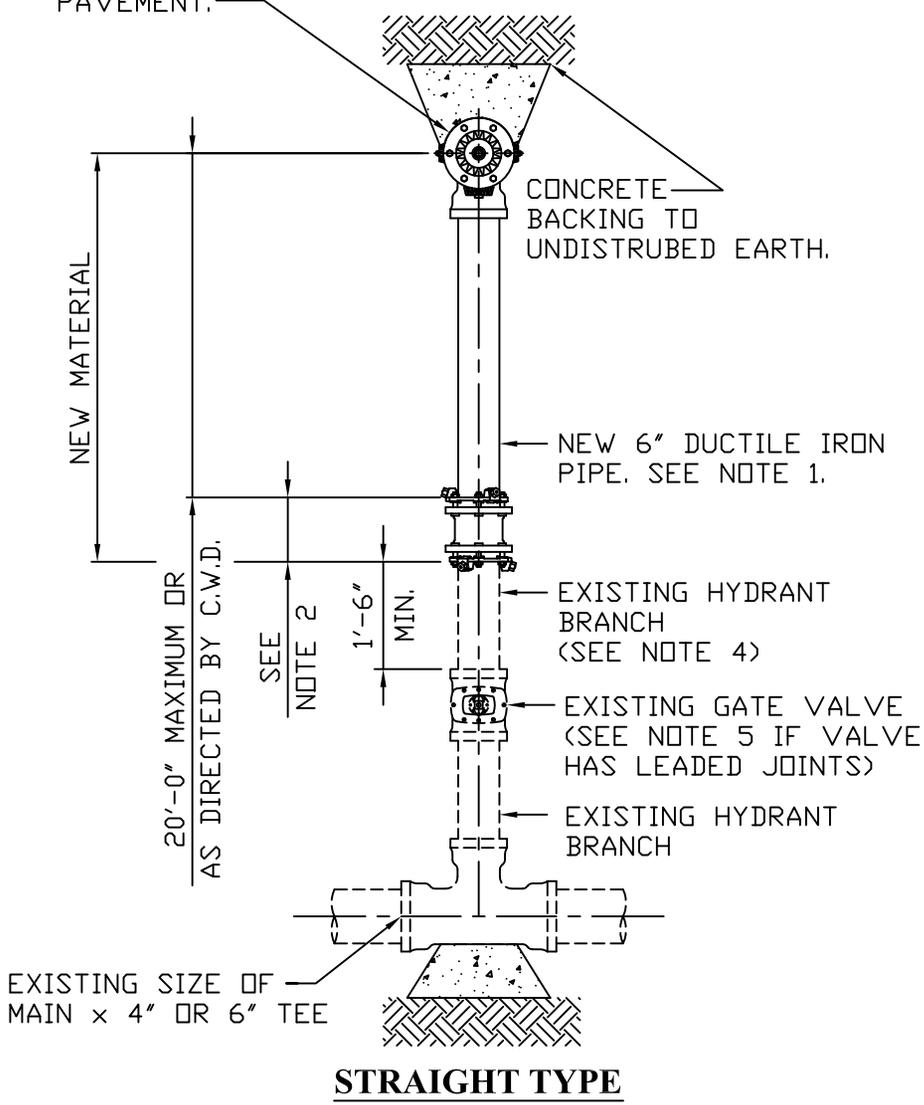


OFFSET TYPE 3

DISTURBING EXISTING LEADED HYDRANTS AND LEADED FITTINGS

- NOT TO SCALE -

INSTALL NEW 6" MECHANICAL JOINT HYDRANT.
 ADJUST HYDRANT TO GRADE TO MEET FIELD
 CONDITIONS TURN STEAMER NOZZLE TOWARD
 PAVEMENT.



STRAIGHT TYPE

- 1) PLAIN END x PLAIN END DUCTILE IRON PIPE AS SPECIFIED (CUT TO SUIT).
- 2) CONNECTION SHALL BE MADE WITH RETAINED MECHANICAL JOINT SOLID SLEEVES (SHORT OR LONG PATTERN) DUCTILE IRON CLASS 350 OR CAST IRON CLASS 250, RETAINED MECHANICAL JOINT REDUCERS WHERE EXISTING PIPE IS 4" IN DIAMETER, OR COMPRESSION COUPLINGS WITH ROD AND CLAMPS AS DIRECTED BY C.W.D. INSPECTOR.

COMPRESSION COUPLINGS SHALL BE OF A GASKETED, SLEEVE TYPE WITH DIAMETERS TO PROPERLY FIT PLAIN END IRON PIPE. EACH COUPLING SHALL CONSIST OF ONE (1) MIDDLE RING, WITHOUT STOPS; TWO (2) FOLLOWER GLANDS; TWO (2) RUBBER-COMPOUND BUNA-N BLEND, WEDGE SECTION GASKETS; AND SUFFICIENT TRACKHEAD STAINLESS STEEL BOLTS AND NUTS (ASTM A276/A193/194, TYPE 304, EXTRA HEAVY HEX) TO PROPERLY COMPRESS THE GASKETS. MIDDLE RING AND FOLLOWER GLANDS SHALL BE OF EITHER STEEL OR DUCTILE IRON (ASTM-A536). THE COMPRESSION COUPLING SHALL BE WITHOUT STOPS AND BE RATED FOR A MINIMUM WORKING PRESSURE OF 250 PSI AND SHALL BE EQUAL TO THE DRESSER STYLE No's 38, 138 (STRAIGHT TYPE), 162 (TRANSITION TYPE), 253 (REDUCING TYPE); OR SMITH-BLAIR 441 (STRAIGHT AND TRANSITION TYPE), R441 (REDUCING TYPE); OR ROMAC STYLE 501 (STRAIGHT AND TRANSITION TYPE), STYLE RC501 (REDUCING TYPE).

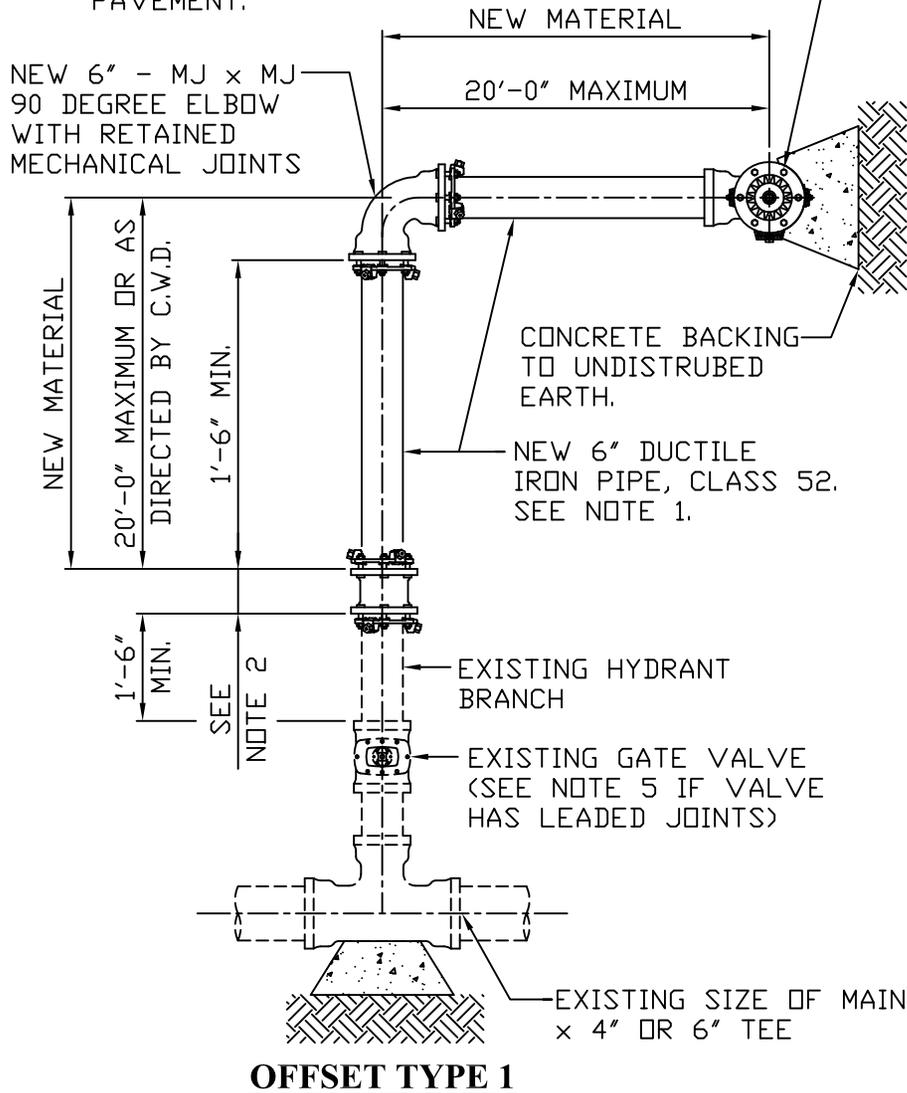
IF THE BRANCH IS TO BE SHORTENED, NO NEW IS PIPE REQUIRED.

- 3) ALL BOLTS AND NUTS ON ALL MECHANICAL JOINTS, INCLUDING THOSE ON THE "RETAINED" TYPE, SHALL HAVE FIELD APPLIED ONE (1) COAT OF BITUMASTIC PAINTING FOLLOWED BY AN ENCASEMENT OF POLYETHYLENE WRAPPING IN ACCORDANCE WITH ANSI/AWWA C-105/A21.5-88, CLASS "C", METHOD "B".
- 4) IF EXISTING PIPING IS 4" USE 4" TO 6" REDUCING MJ REDUCER OR REDUCING TRANSITION COUPLING WITH ROD & CLAMP IF APPROVED BY CWD.
- 5) IN HIGH PRESSURE AREAS THE EXISTING VALVE MAY NEED TO BE RESTRAINED TO EXISTING TEE OR FITTING USING ROD & CLAMP AS DIRECTED BY CWD.
 SEE STD-H01 FOR EXISTING LEAD JOINT REQUIREMENTS.

EXTEND, SHORTEN AND ADJUST HYDRANT TO GRADE, STRAIGHT TYPE

- NOT TO SCALE -

INSTALL NEW 6" MECHANICAL JOINT HYDRANT. ADJUST HYDRANT TO GRADE TO MEET FIELD CONDITIONS. TURN STEAMER NOZZLE TOWARD PAVEMENT.



OFFSET TYPE 1

EXTEND, SHORTEN AND ADJUST HYDRANT TO GRADE, OFFSET TYPE 1

- NOT TO SCALE -

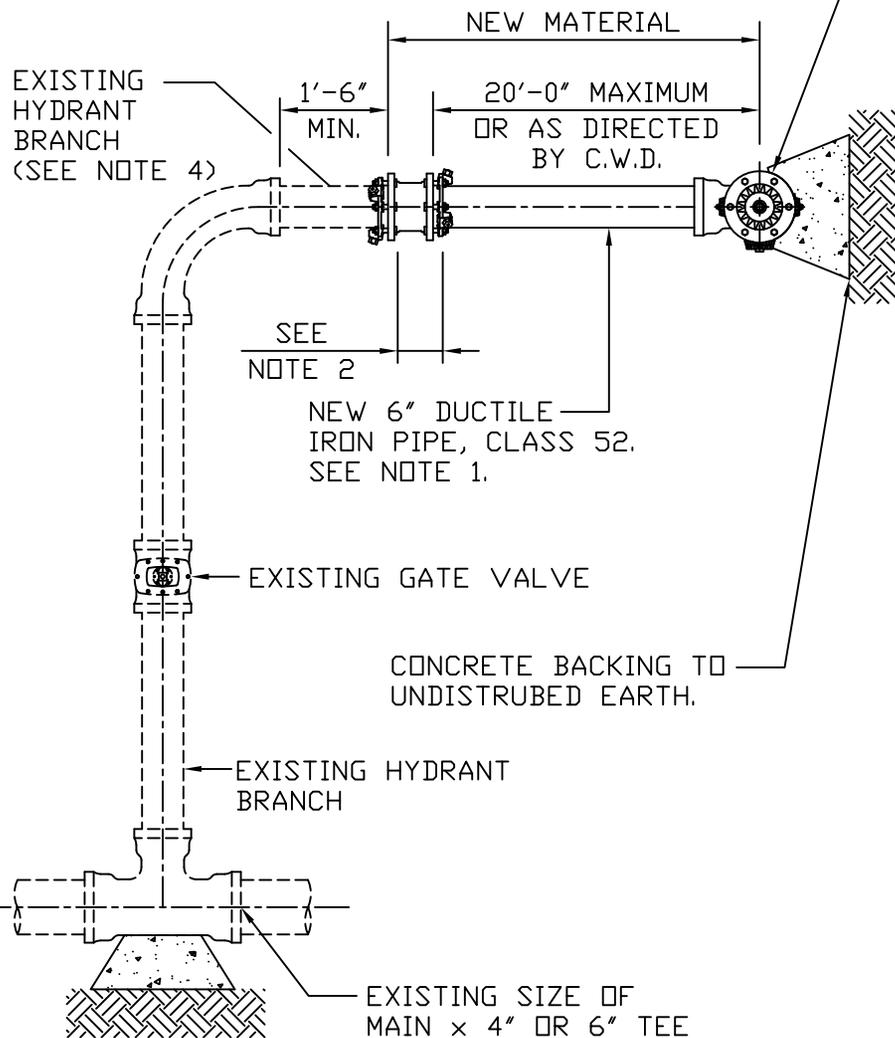
- 1) PLAIN END x PLAIN END DUCTILE IRON PIPE AS SPECIFIED (CUT TO SUIT).
- 2) CONNECTION SHALL BE MADE WITH RETAINED MECHANICAL JOINT SOLID SLEEVES (SHORT OR LONG PATTERN) DUCTILE IRON CLASS 350 OR CAST IRON CLASS 250, RETAINED MECHANICAL JOINT REDUCERS WHERE EXISTING PIPE IS 4" IN DIAMETER, OR COMPRESSION COUPLINGS WITH ROD AND CLAMPS AS DIRECTED BY C.W.D. INSPECTOR.

COMPRESSION COUPLINGS SHALL BE OF A GASKETED, SLEEVE TYPE WITH DIAMETERS TO PROPERLY FIT PLAIN END IRON PIPE. EACH COUPLING SHALL CONSIST OF ONE (1) MIDDLE RING, WITHOUT STOPS; TWO (2) FOLLOWER GLANDS; TWO (2) RUBBER-COMPOUND BUNA-N BLEND, WEDGE SECTION GASKETS; AND SUFFICIENT TRACKHEAD STAINLESS STEEL BOLTS AND NUTS (ASTM A276/A193/194, TYPE 304, EXTRA HEAVY HEX) TO PROPERLY COMPRESS THE GASKETS. MIDDLE RING AND FOLLOWER GLANDS SHALL BE OF EITHER STEEL OR DUCTILE IRON (ASTM-A536). THE COMPRESSION COUPLING SHALL BE WITHOUT STOPS AND BE RATED FOR A MINIMUM WORKING PRESSURE OF 250 PSI AND SHALL BE EQUAL TO THE DRESSER STYLE No's 38, 138 (STRAIGHT TYPE), 162 (TRANSITION TYPE), 253 (REDUCING TYPE); OR SMITH-BLAIR 441 (STRAIGHT AND TRANSITION TYPE), R441 (REDUCING TYPE); OR ROMAC STYLE 501 (STRAIGHT AND TRANSITION TYPE), STYLE RC501 (REDUCING TYPE).

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- 5) IN HIGH PRESSURE AREAS THE EXISTING VALVE MAY NEED TO BE RESTRAINED TO EXISTING TEE OR FITTING USING ROD & CLAMP AS DIRECTED BY CWD. SEE STD-H01 FOR EXISTING LEAD JOINT REQUIREMENTS.

INSTALL NEW 6" MECHANICAL JOINT HYDRANT. ADJUST HYDRANT TO GRADE TO MEET FIELD CONDITIONS. TURN STEAMER NOZZLE TOWARD PAVEMENT.



OFFSET TYPE 2

EXTEND, SHORTEN AND ADJUST HYDRANT TO GRADE, OFFSET TYPE 2

- NOT TO SCALE -

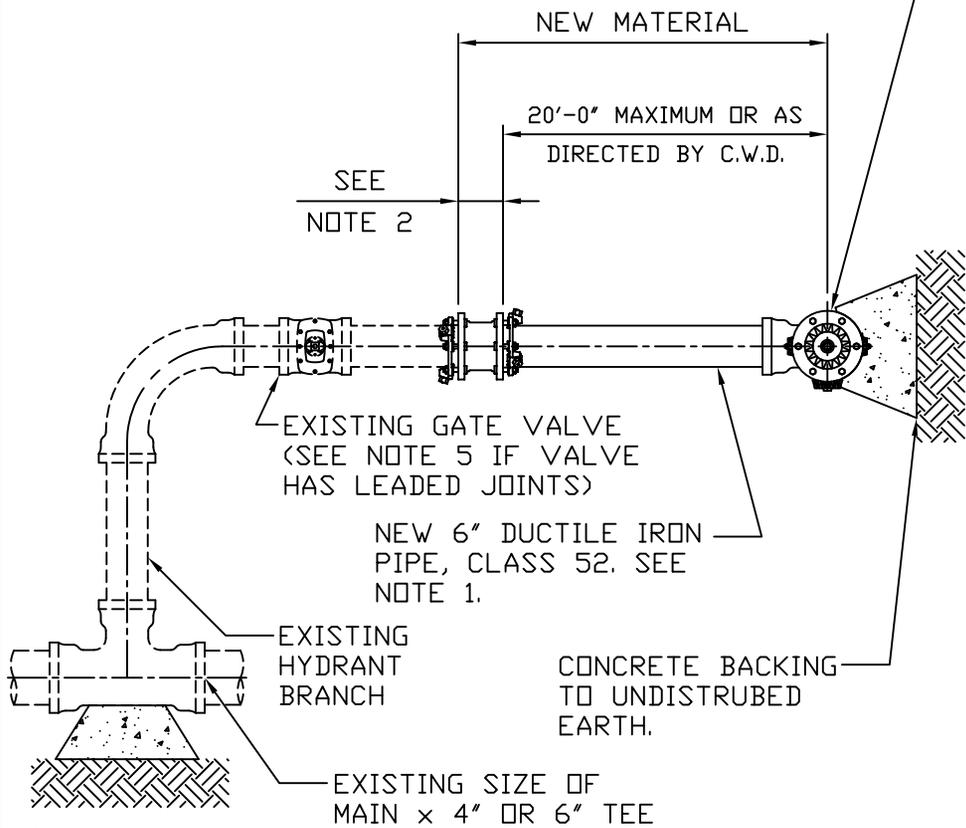
- 1) PLAIN END x PLAIN END DUCTILE IRON PIPE AS SPECIFIED (CUT TO SUIT).
- 2) CONNECTION SHALL BE MADE WITH RETAINED MECHANICAL JOINT SOLID SLEEVES (SHORT OR LONG PATTERN) DUCTILE IRON CLASS 350 OR CAST IRON CLASS 250, RETAINED MECHANICAL JOINT REDUCERS WHERE EXISTING PIPE IS 4" IN DIAMETER, OR COMPRESSION COUPLINGS WITH ROD AND CLAMPS AS DIRECTED BY C.W.D. INSPECTOR.

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- 5) IN HIGH PRESSURE AREAS THE EXISTING VALVE MAY NEED TO BE RESTRAINED TO EXISTING TEE OR FITTING USING ROD & CLAMP AS DIRECTED BY CWD.
SEE STD-H01 FOR EXISTING LEAD JOINT REQUIREMENTS.

INSTALL NEW 6" HYDRANT. ADJUST HYDRANT TO GRADE TO MEET FIELD CONDITIONS. TURN STEAMER NOZZLE TOWARD PAVEMENT.



OFFSET TYPE 3

- 1) PLAIN END x PLAIN END DUCTILE IRON PIPE AS SPECIFIED (CUT TO SUIT).
- 2) CONNECTION SHALL BE MADE WITH RETAINED MECHANICAL JOINT SOLID SLEEVES (SHORT OR LONG PATTERN) DUCTILE IRON CLASS 350 OR CAST IRON CLASS 250, RETAINED MECHANICAL JOINT REDUCERS WHERE EXISTING PIPE IS 4" IN DIAMETER, OR COMPRESSION COUPLINGS WITH ROD AND CLAMPS AS DIRECTED BY C.W.D. INSPECTOR.

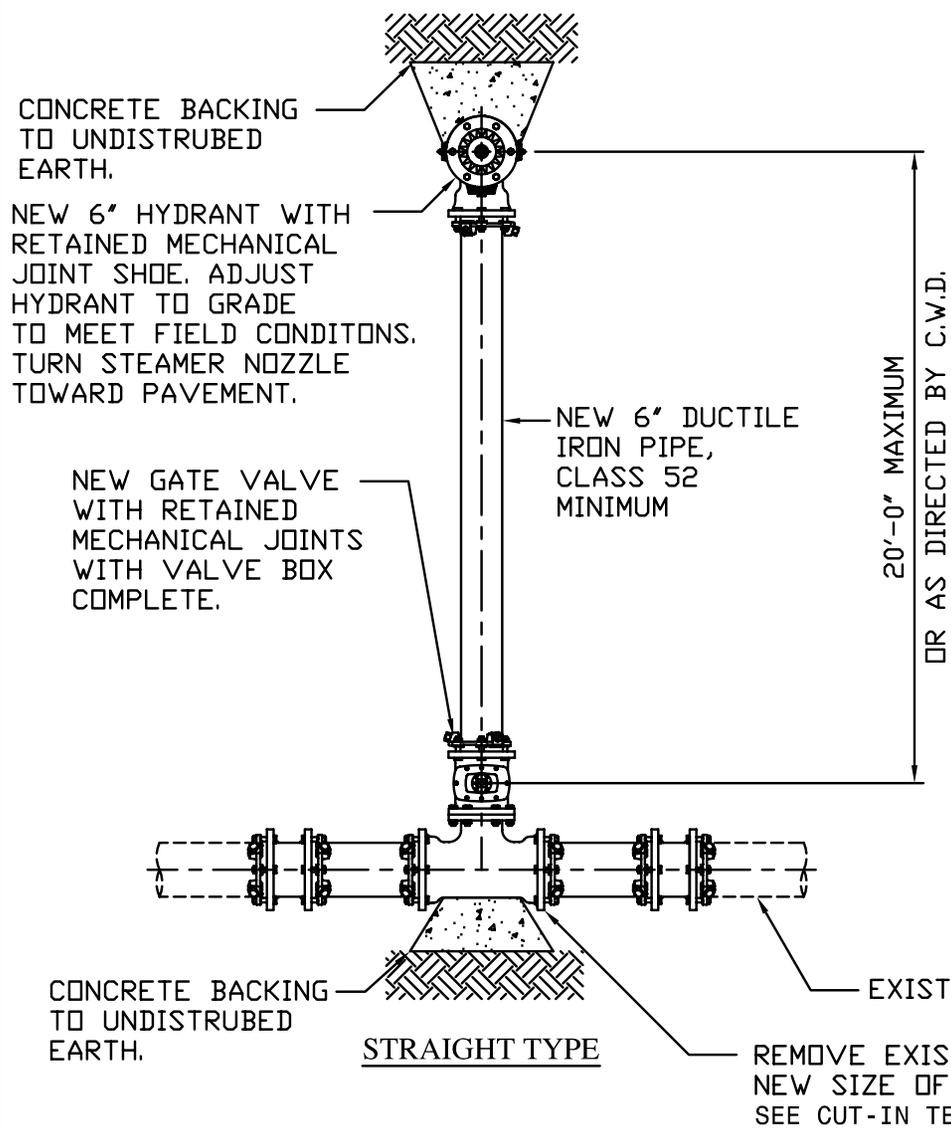
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EXTEND, SHORTEN AND ADJUST 6" HYDRANT TO GRADE, OFFSET TYPE 3

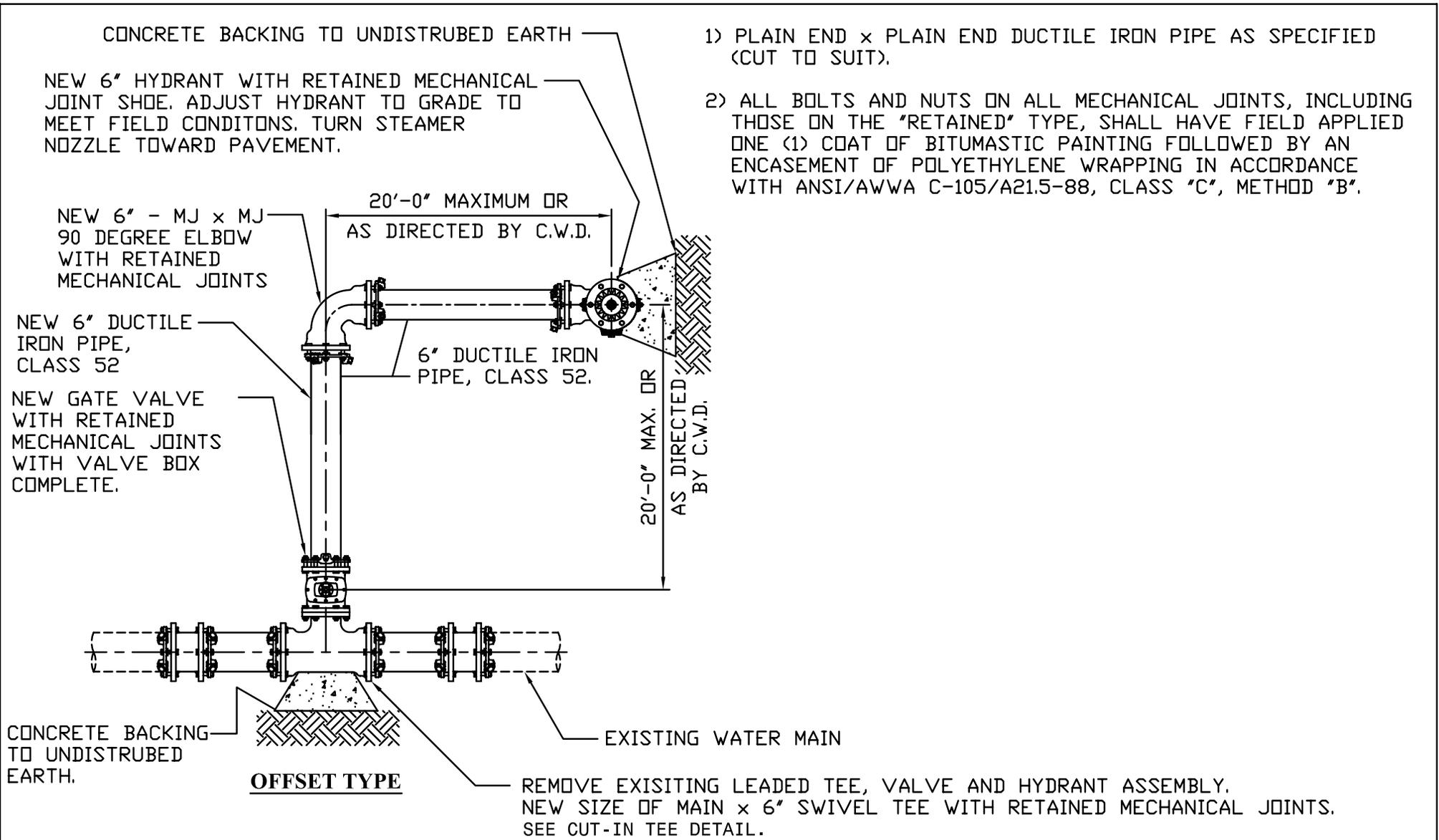
- NOT TO SCALE -



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REPLACING EXISTING HYDRANT WITH NEW 6" HYDRANT ASSEMBLY, STRAIGHT TYPE

- NOT TO SCALE -

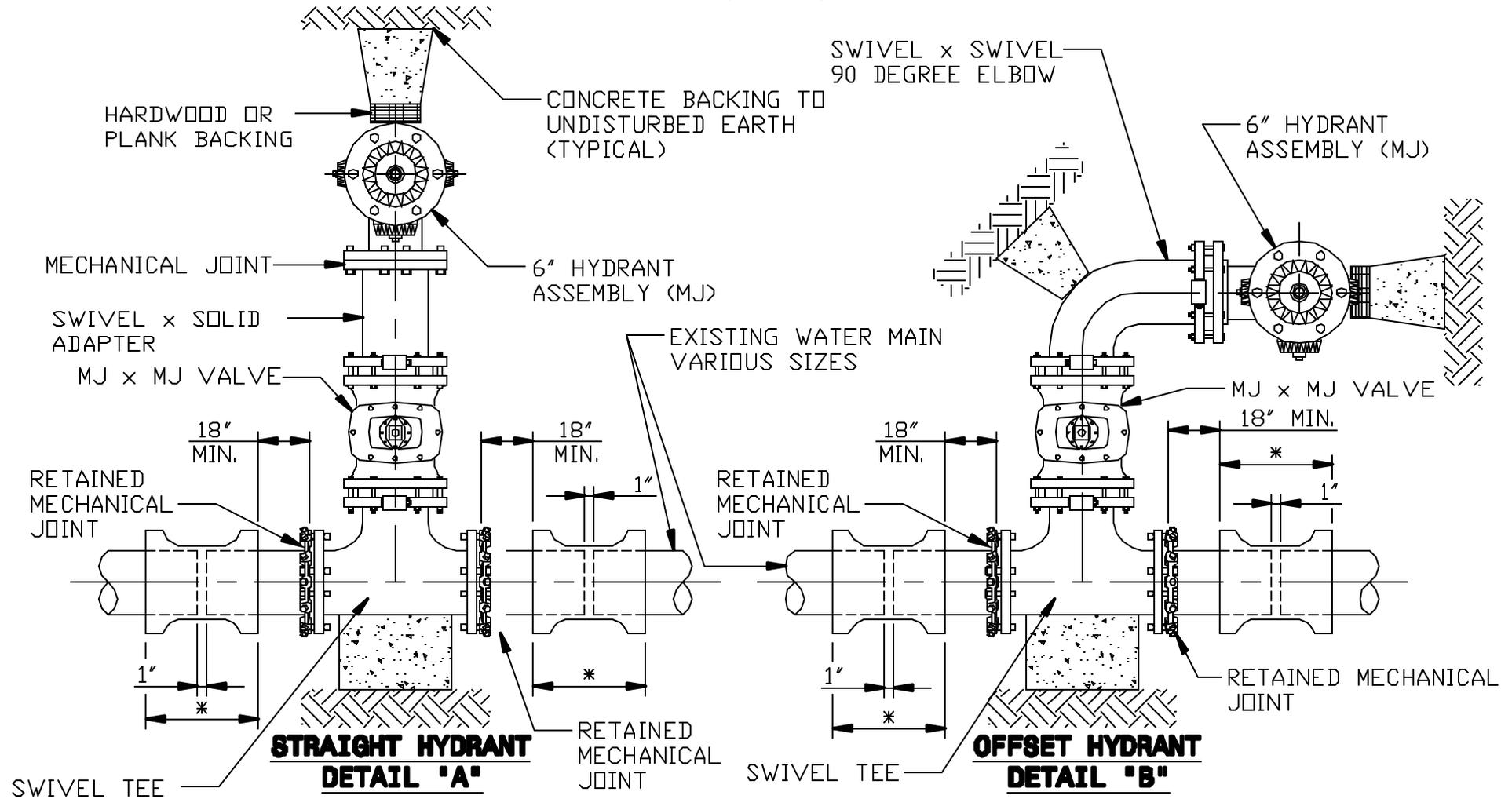


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- 2) ALL BOLTS AND NUTS ON ALL MECHANICAL JOINTS, INCLUDING THOSE ON THE "RETAINED" TYPE, SHALL HAVE FIELD APPLIED ONE (1) COAT OF BITUMASTIC PAINTING FOLLOWED BY AN ENCASEMENT OF POLYETHYLENE WRAPPING IN ACCORDANCE WITH ANSI/AWWA C-105/A21.5-88, CLASS "C", METHOD "B".

REPLACING EXISTING HYDRANT WITH NEW 6" HYDRANT ASSEMBLY, OFFSET TYPE

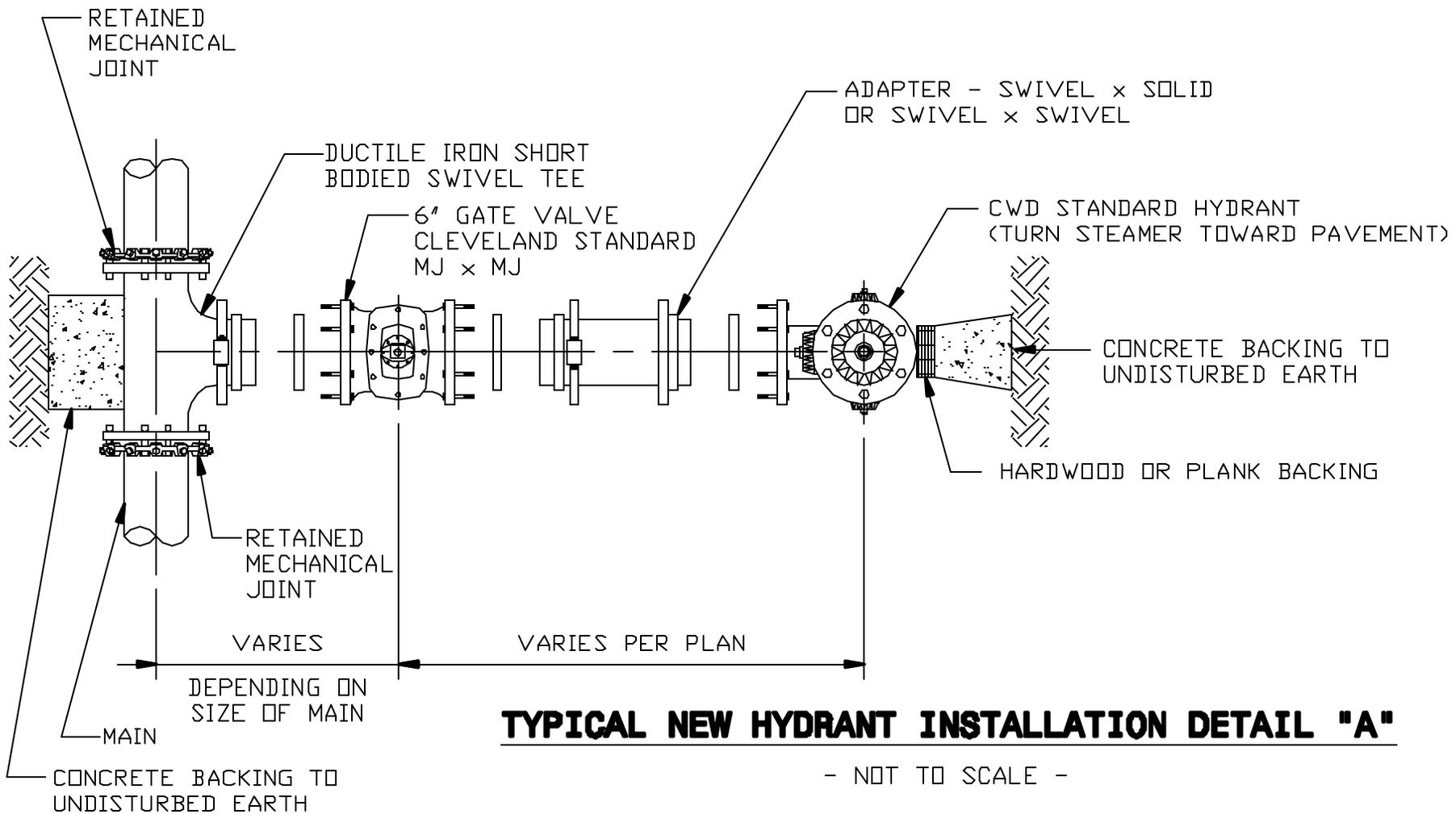
- NOT TO SCALE -

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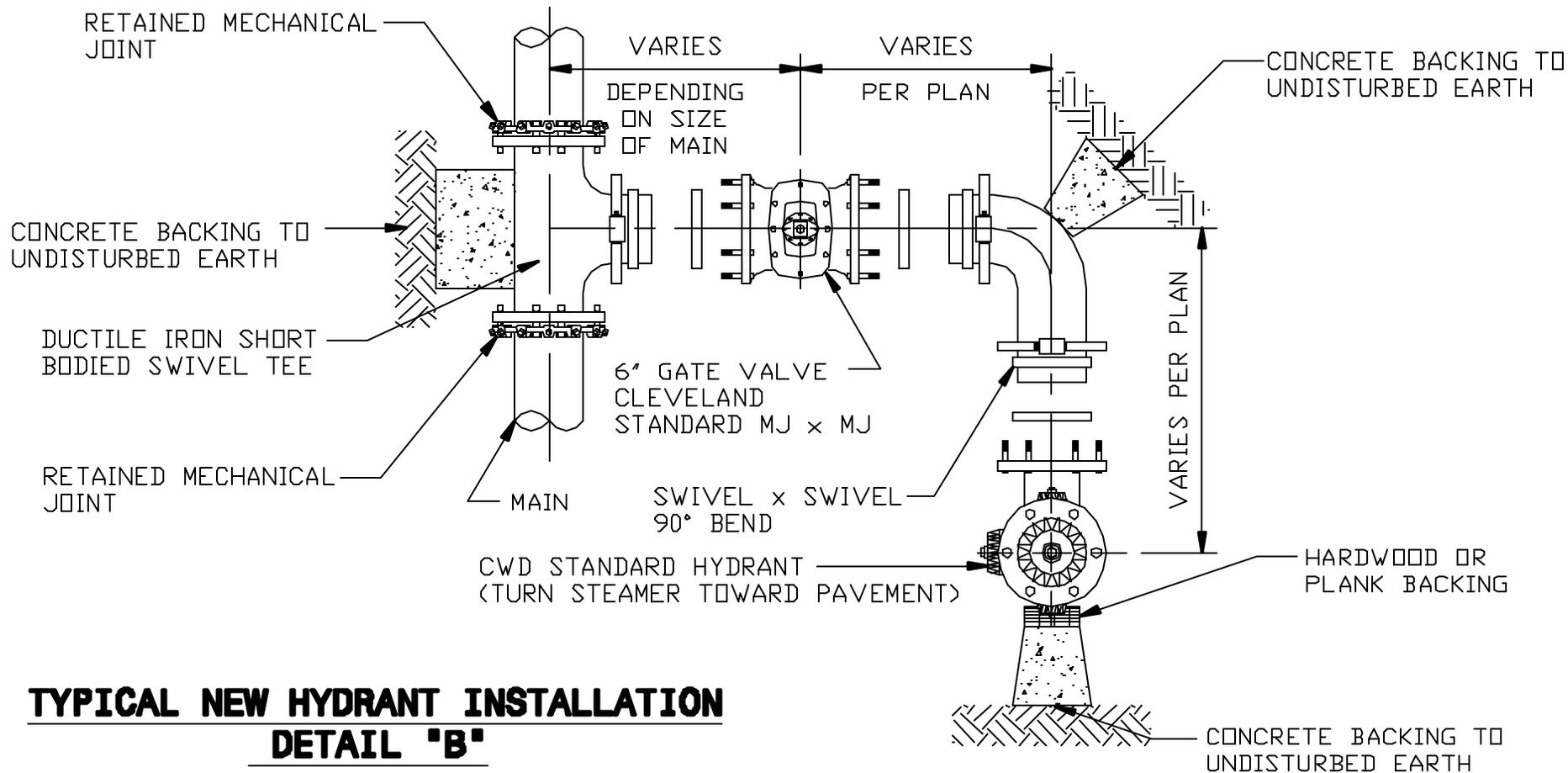
CUT-IN TEE FOR NEW HYDRANT INSTALLATION ON EXISTING WATER MAIN

FOR EXPLODED VIEW OF HYDRANT BRANCH SEE (STD-H09 OR STD-H10).



NOTE: IN LIEU OF SWIVEL BRANCH TEES AND ADAPTERS CONTRACTORS MAY FURNISH HYDRANT BRANCHES HAVING RETAINED MECHANICAL JOINTS INCLUDING HYDRANT SHOE. ALL MECHANICAL JOINTS SHALL HAVE FIELD APPLIED ONE (1) COAT OF BITUMASTIC PAINT. ALL MECHANICAL JOINTS SHALL BE POLYETHYLENE WRAPPED IN ACCORDANCE WITH AWWA C-1-5/A21.5-88 CLASS "C" METHOD "B".

ALL BOLTS AND NUTS FURNISHED WITH RETAINED MECHANICAL JOINTS INCLUDING RETAINER OR WEDGE ACTION TYPE GLANDS SHALL BE COPPER-BEARING DUCTILE IRON, OR EQUIVALENT HIGH STRENGTH, LOW ALLOY CORROSION RESISTANT STEEL.

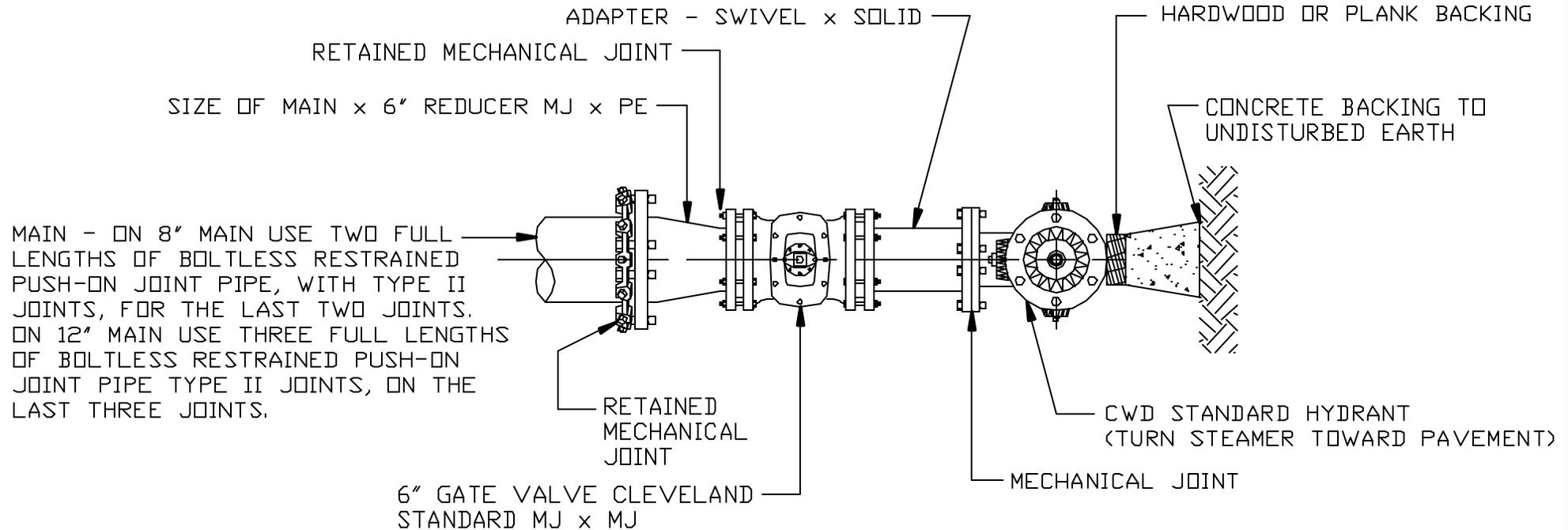


TYPICAL NEW HYDRANT INSTALLATION DETAIL "B"

- NOT TO SCALE -

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TYPICAL NEW HYDRANT INSTALLATION DETAIL "C"

NOT TO SCALE

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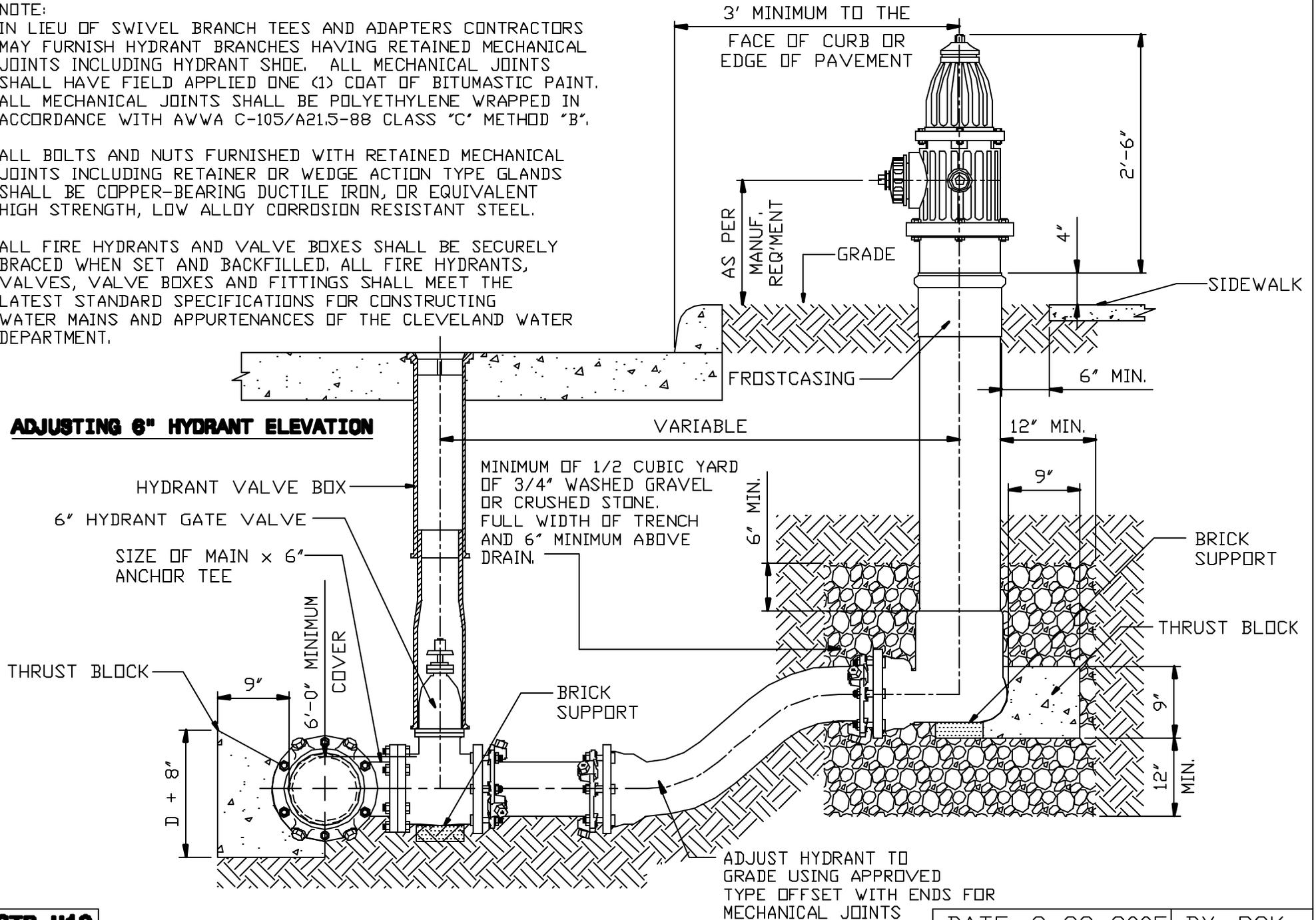
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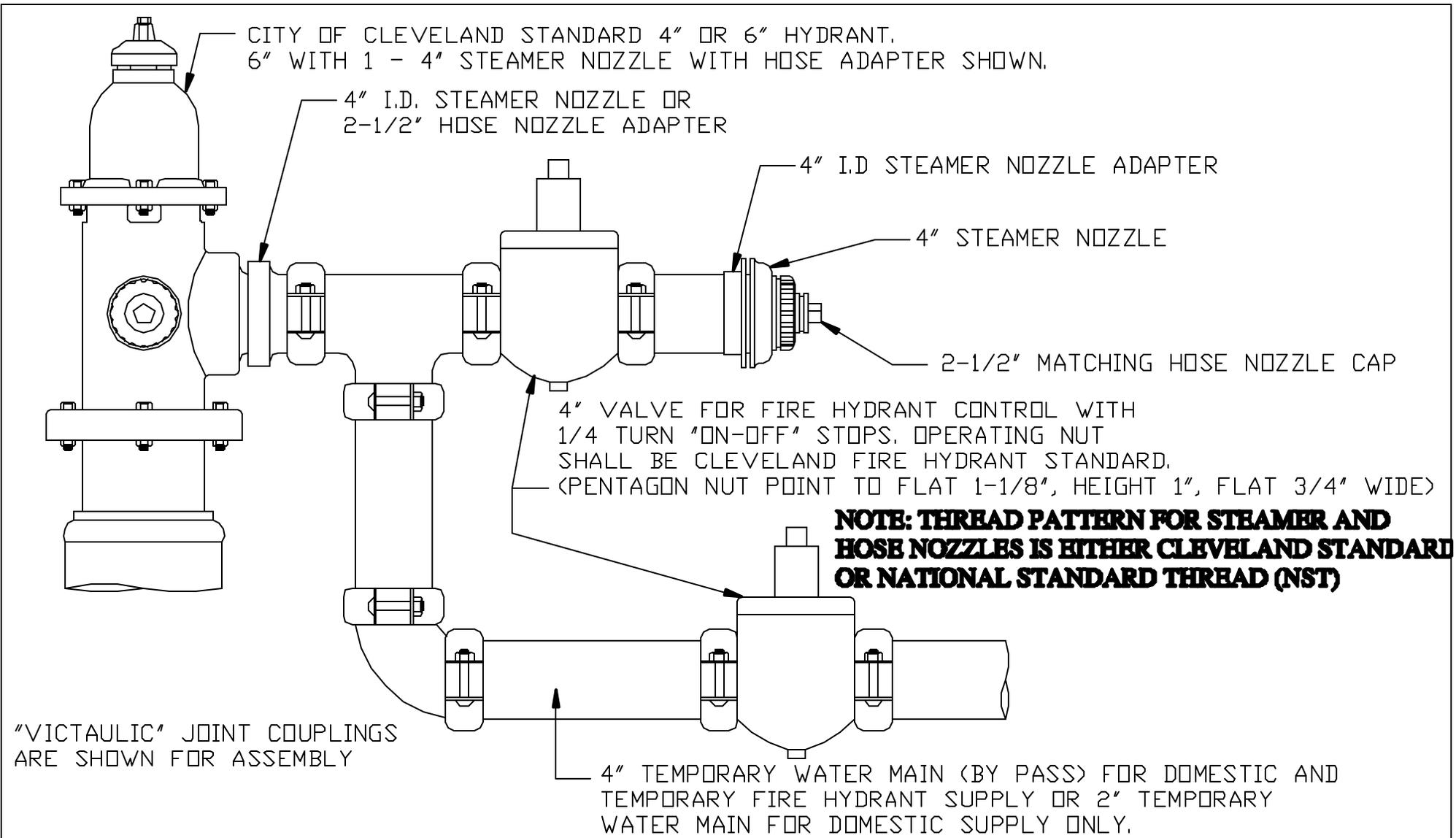
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ALL FIRE HYDRANTS AND VALVE BOXES SHALL BE SECURELY BRACED WHEN SET AND BACKFILLED. ALL FIRE HYDRANTS, VALVES, VALVE BOXES AND FITTINGS SHALL MEET THE LATEST STANDARD SPECIFICATIONS FOR CONSTRUCTING WATER MAINS AND APPURTENANCES OF THE CLEVELAND WATER DEPARTMENT.

ADJUSTING 6" HYDRANT ELEVATION





TEMPORARY WATER MAIN & HYDRANT CONNECTION ASSEMBLY-A

TO PROVIDE SIMULTANEOUS SERVICE IN EXISTING HYDRANT AND TEMPORARY BYPASS MAIN

- NOT TO SCALE -

PAINT FIRE HYDRANT
OUTLET ASSEMBLY
ORANGE

4" I.D. STEAMER NOZZLE ADAPTER

4" STEAMER NOZZLE

2-1/2" MATCHING HOSE NOZZLE CAP

4" QUICK ACTING PLUG TYPE VALVE FOR FIRE HYDRANT CONTROL
WITH 1/4 TURN "ON-OFF" STOPS. OPERATING NUT SHALL BE
CLEVELAND FIRE HYDRANT STANDARD.
(PENTAGON NUT POINT TO FLAT 1-1/8", HEIGHT 1", FLAT 3/4" WIDE).

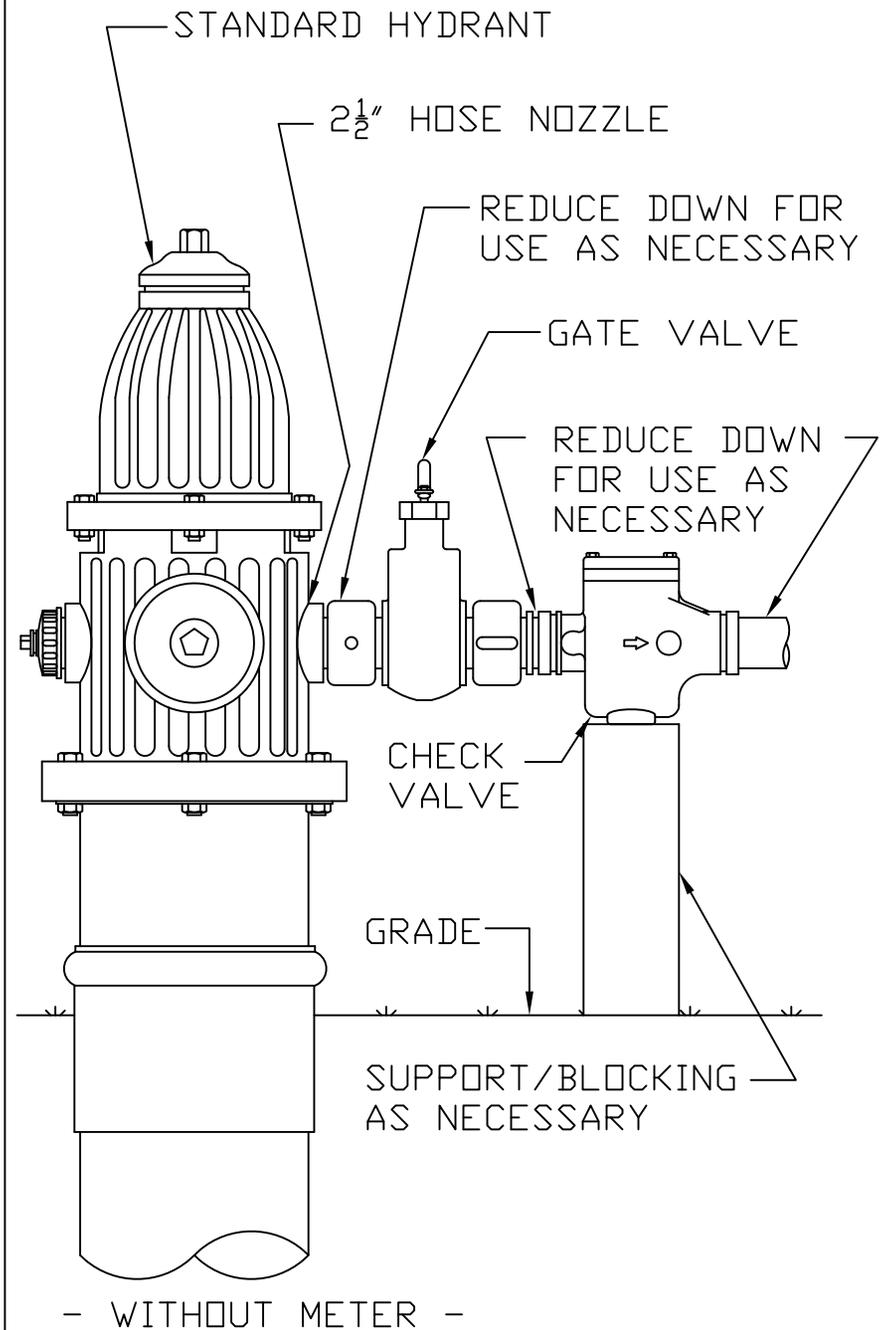
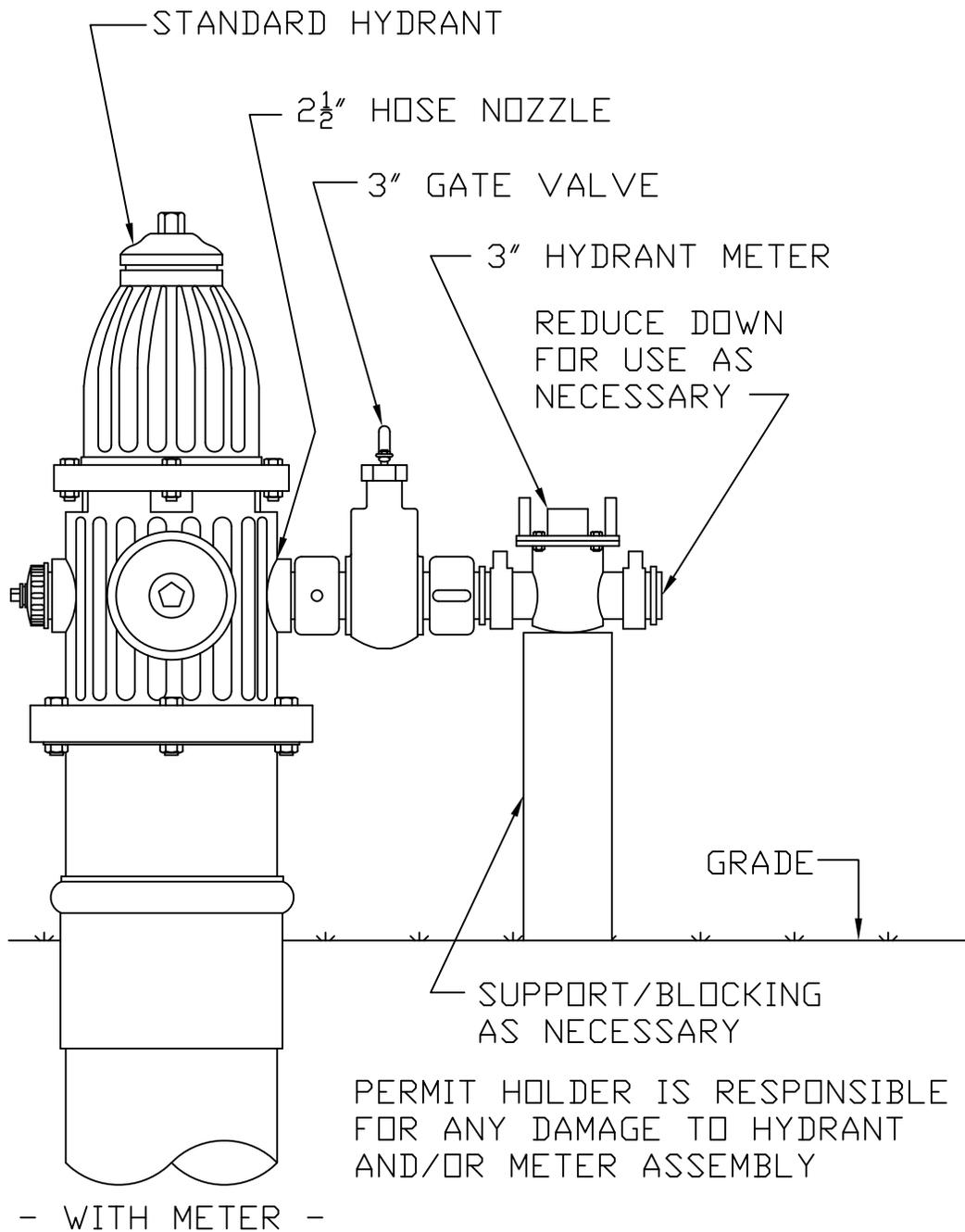
4" OR LARGER TEMPORARY WATER MAIN (BY PASS) FOR
DOMESTIC AND TEMPORARY FIRE HYDRANT SUPPLY OR
2" TEMPORARY WATER MAIN FOR DOMESTIC SUPPLY ONLY.

"VICTAULIC" JOINT COUPLINGS
ARE SHOWN FOR ASSEMBLY.

**NOTE: THREAD PATTERN FOR STEAMER AND HOSE NOZZLES IS EITHER
CLEVELAND STANDARD OR NATIONAL STANDARD THREAD (NST)**

TEMPORARY WATER MAIN & HYDRANT CONNECTION ASSEMBLY-C **OUTLET END**

- NOT TO SCALE -

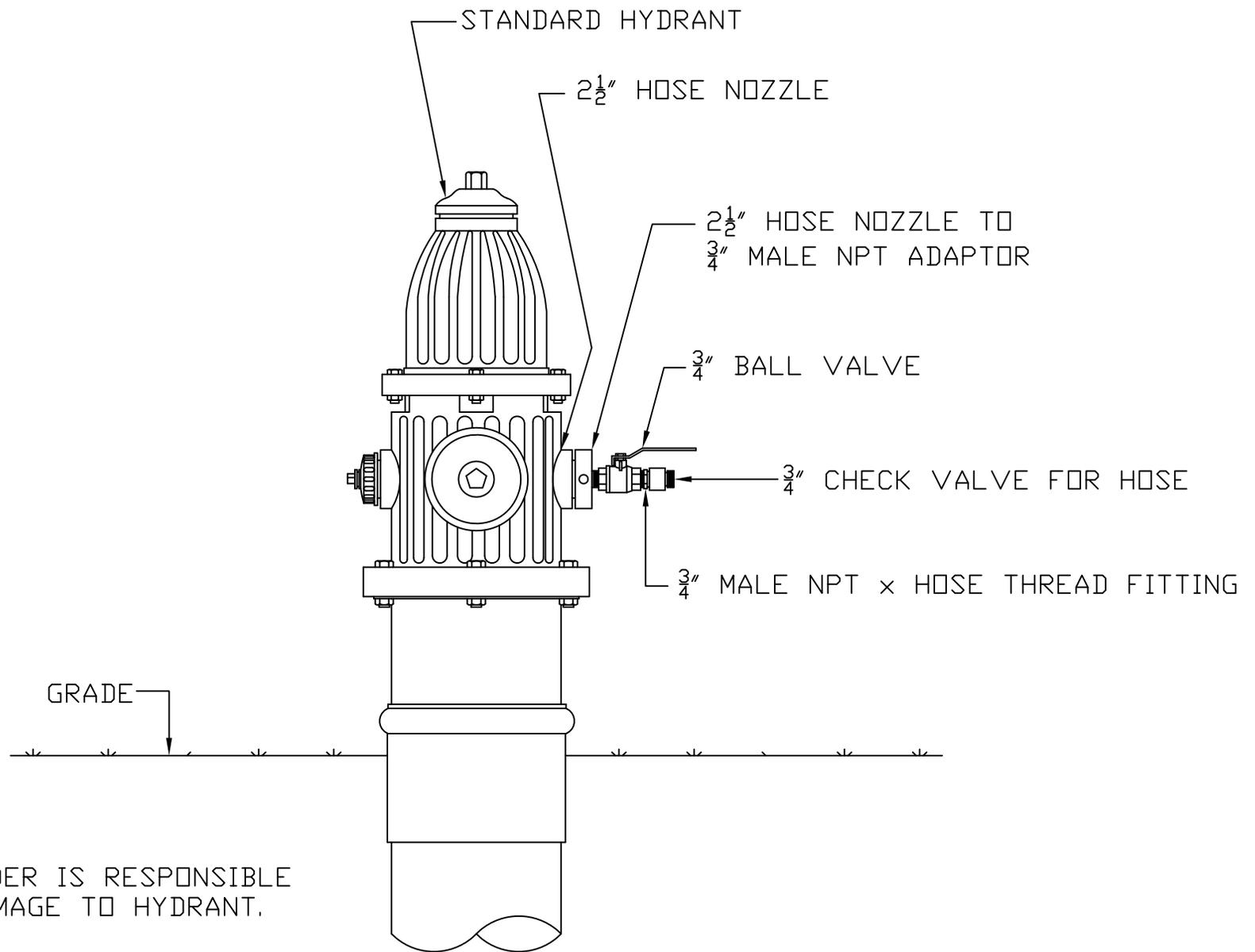


TEMPORARY WATER SERVICE FROM PUBLIC FIRE HYDRANT

- NOT TO SCALE -

DATE: 3-16-2012

STD-H17



PERMIT HOLDER IS RESPONSIBLE FOR ANY DAMAGE TO HYDRANT.

TEMPORARY WATER SERVICE FOR HOSE CONNECTION FROM PUBLIC FIRE HYDRANT

- NOT TO SCALE -