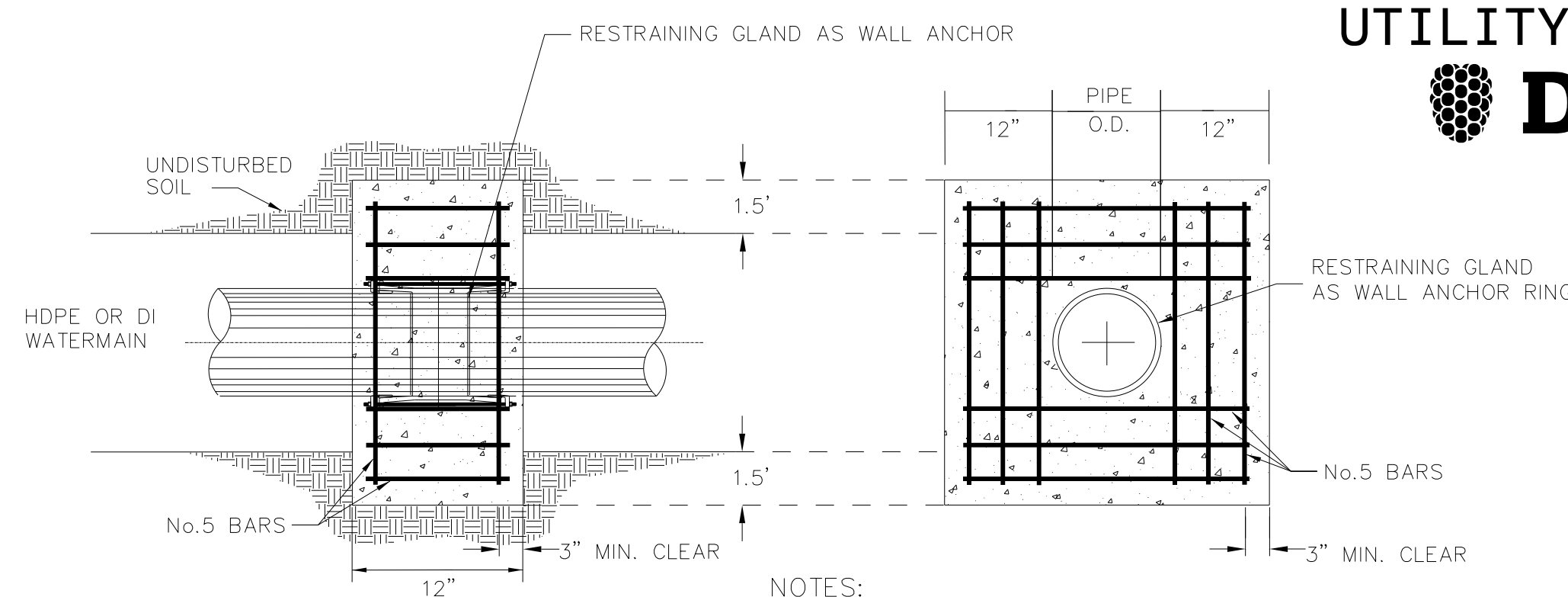
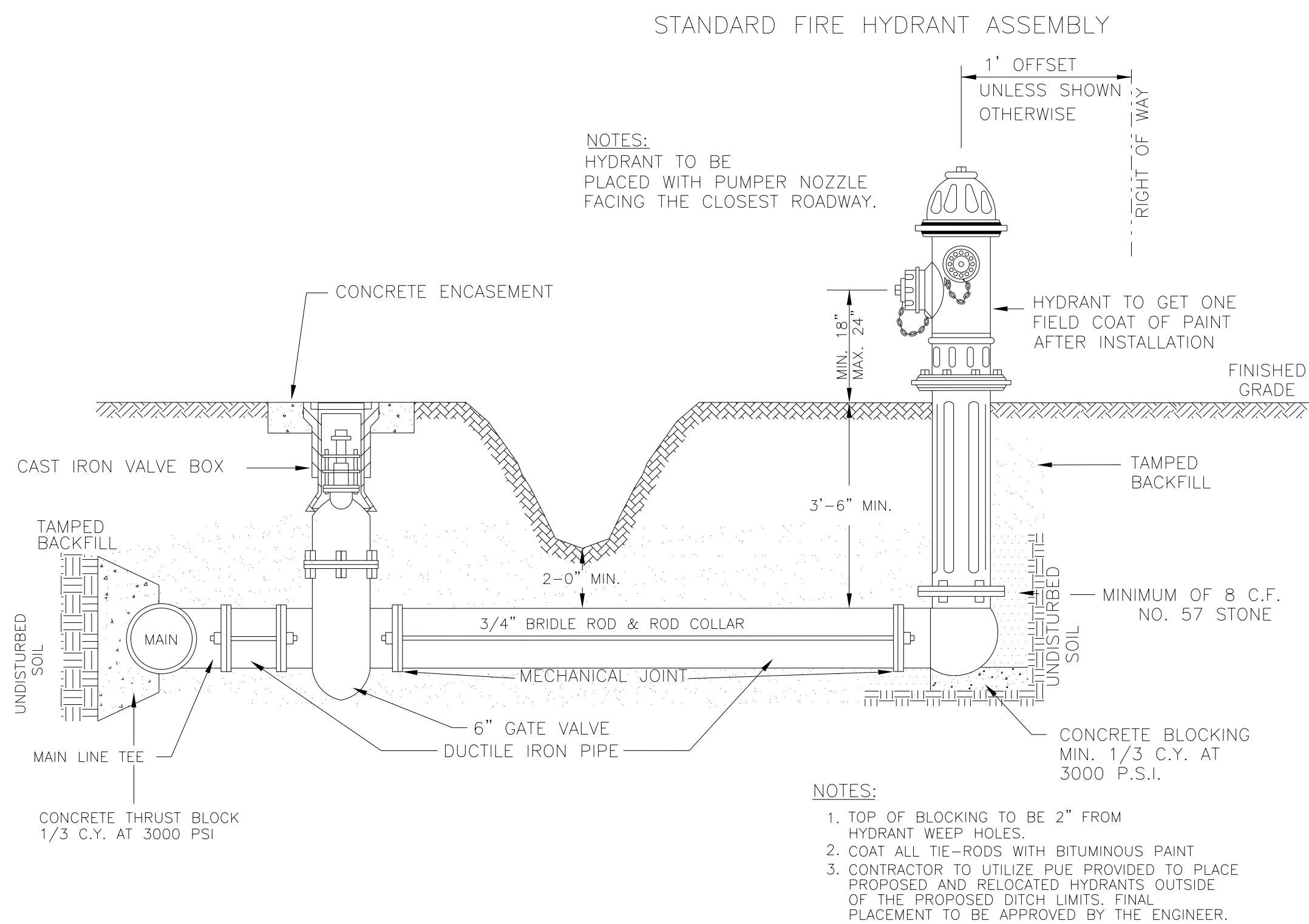


**STANDARD HDPE TRANSITION**  
NO SCALE

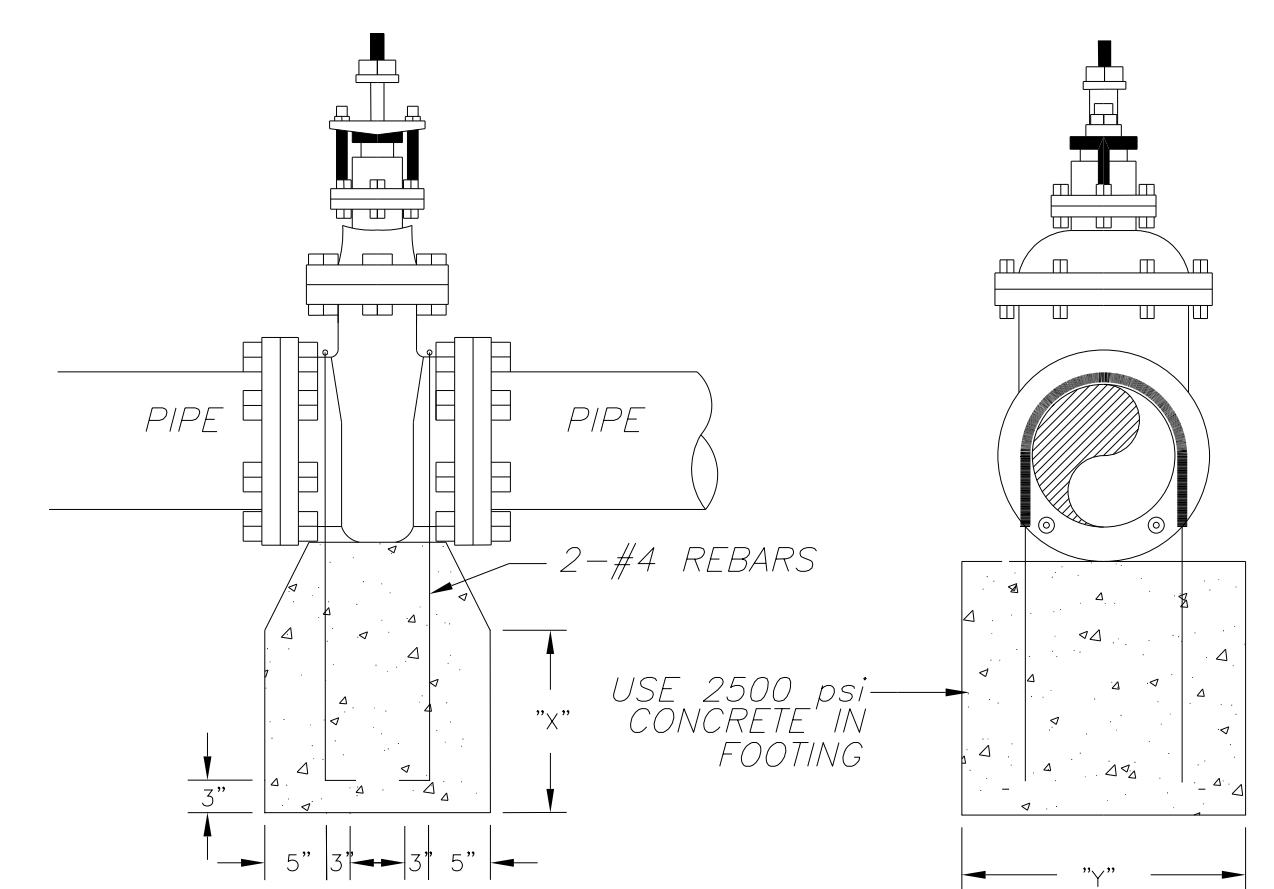


- NOTES:**
- CONCRETE FOR THRUST COLLAR EXTENDING 1.5' INTO SIDES OF TRENCH SHALL BE POURED AGAINST FIRM, UNDISTURBED EARTH.
  - CONCRETE SHALL BE 2500 P.S.I.
  - USE RESTRAINING GLANDS AS WALL ANCHOR RING
  - BEARING AREA CALCULATED USING  $A=1.5*(F/P)$  WHERE A=THE BEARING AREA, F=PULLOUT FORCE OF WATERMAIN, P=SOIL PRESSURE
  - SOIL PRESSURE ASSUMED TO BE 4000 LBS/FT, PULLOUT FORCE ASSUMED TO BE 20474 LBS CONTRACTOR TO VERIFY SOIL PRESSURE AND PULLOUT FORCE ASSUMPTIONS BEFORE CONSTRUCTION

**ANCHOR RING & THRUST COLLAR**  
NO SCALE



**STANDARD HYDRANT INSTALLATION**  
NO SCALE

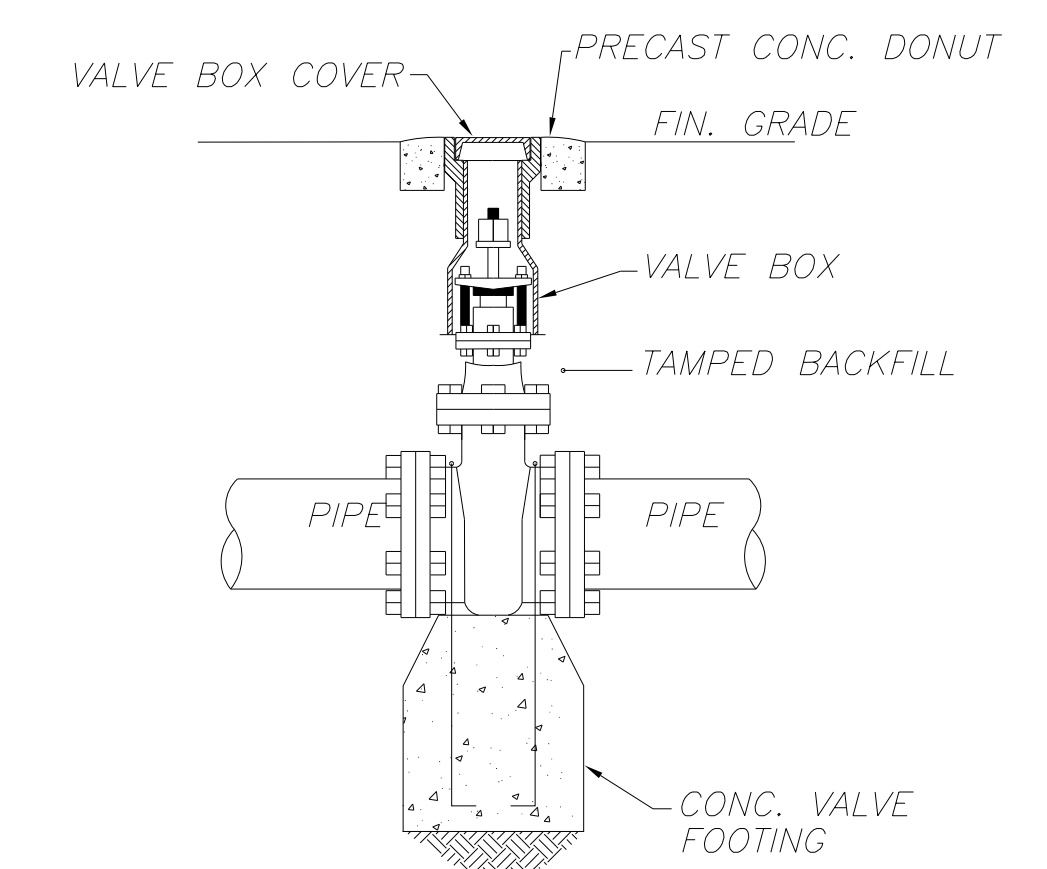


**NOTES:**

- COAT EXPOSED STEEL RODS WITH BITUMINOUS BASE PAINT.
- X x Y MUST EQUAL THE SQUARE FOOTAGE OF THE BEARING AREA SHOWN IN THE TABLE BELOW

TYPE OF MATERIAL	BEARING SURFACE AREA FOR VALVE FOOTINGS			
	VALVE SIZE			
	4"	6"	8"	12"
QUICKSAND, POOR SOIL (1000psf)	3	7	12	28
GRAVE, COURSE SAND(1600psf)	2	5	8	20
SOFT CLAY(2000psf)	2	4	6	16
FAIRLY DRY CLAY, CLEAN DRY SAND(4000psf)	1	2	3	8
DRY CLAY, COMPACT SAND(8000psf)	1	1	2	4
POOR ROCK(10,000psf)	1	1	2	4

**STANDARD GATE VALVE FOOTING**  
NO SCALE



**NOTE**  
VALVE BOX SHALL NOT CONTACT VALVE OR MAIN.

**STANDARD VALVE BOX INSTALLATION**

NO SCALE