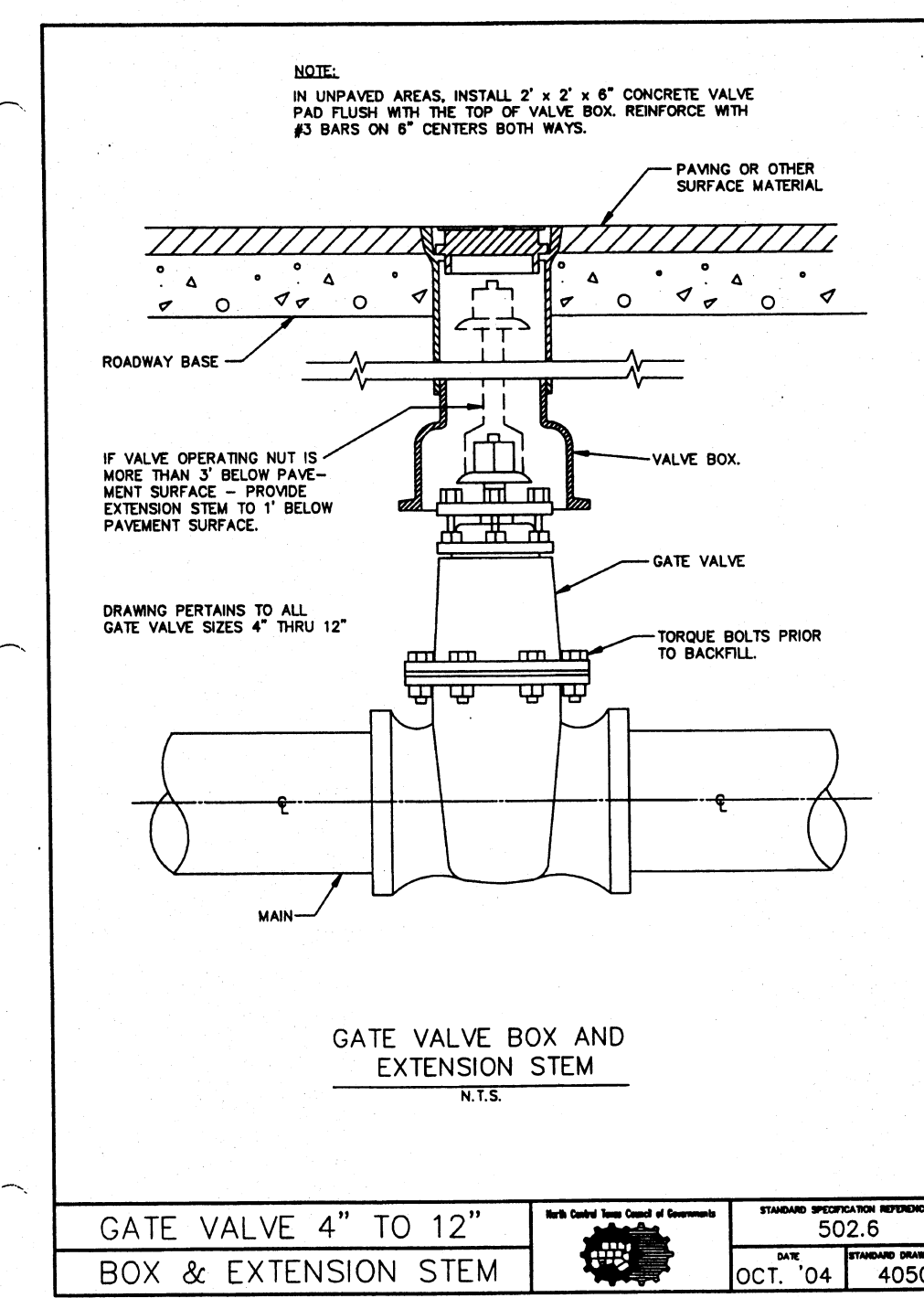


VERTICAL THRUST BLOCK AT PIPE BEND

D	11.25'		22.50'		30'		45'		67.50'		90'		D
	THRUST (kN)	THRUST (kN)	THRUST (kN)	THRUST (kN)	THRUST (kN)	THRUST (kN)	THRUST (kN)	THRUST (kN)	THRUST (kN)	THRUST (kN)	THRUST (kN)	THRUST (kN)	
4.6	1.0	0.5	2.0	1.0	2.5	1.3	3.6	1.8	4.8	2.3	5.0	2.5	4.6
10.12	2.2	1.1	4.3	2.2	5.7	2.8	8.0	4.0	10.5	5.2	11.3	5.7	10.12
16.18	4.0	2.0	8.7	4.4	12.7	6.4	18.0	9.0	23.5	11.6	25.0	12.7	16.18
20	6.1	3.1	12.0	6.0	16.7	7.9	22.2	11.3	29.2	14.5	31.4	15.7	20
24	8.2	4.4	17.3	8.7	22.6	11.3	32.0	16.0	41.8	20.9	45.2	22.8	24
30	10.5	5.2	20.3	10.1	28.5	13.3	37.5	18.8	49.0	24.5	53.1	26.3	30
36	14.9	7.5	29.2	14.6	38.2	19.1	54.0	27.0	70.5	35.3	78.4	38.2	36
42	20.3	10.1	39.8	19.9	52.0	26.0	73.5	36.7	96.0	48.0	104.0	52.0	42
48	26.5	13.2	51.9	26.0	67.8	33.9	96.0	48.0	126.0	62.7	136.0	67.8	48
54	33.5	16.8	65.7	32.9	85.8	42.8	122.0	60.7	159.0	79.4	172.0	85.9	54
60	41.4	20.7	81.2	40.6	106.0	53.0	150.0	75.0	196.0	98.0	212.0	106.0	60
66	50.1	25.0	98.2	49.1	128.0	64.2	182.0	90.7	237.0	119.0	257.0	128.0	66
72	59.8	29.8	117.0	58.4	153.0	76.3	216.0	108.0	285.0	141.0	305.0	153.0	72
78	69.9	35.0	137.0	68.6	179.0	90.0	254.0	127.0	331.0	166.0	358.0	179.0	78
84	81.1	40.5	159.0	79.5	208.0	104.0	294.0	147.0	384.0	192.0	416.0	208.0	84
90	93.1	46.5	183.0	91.3	239.0	119.0	337.0	168.0	441.0	221.0	472.0	239.0	90
96	106.0	53.0	208.0	104.0	272.0	136.0	384.0	192.0	502.0	251.0	543.0	272.0	96

4030

STANDARD SPECIFICATION REFERENCE: 502.4
DATE: OCT. '04



THESE DETAILS ARE NOT FOR USE ON STATE RIGHT OF WAY.

RECORD DOCUMENT

These Record Documents (As Built) have been prepared based on information provided by others. The Engineer has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result.

THESE STANDARD NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) DETAILS ARE APPROVED FOR USE ON THIS PROJECT BY:

STATE OF TEXAS
JOYCE P. STANTON
70197
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ESTABLISHED 1953 FIRM NUMBER F-615
WATER & SANITARY SEWER DETAILS

LOT 22R
SKYVIEW COUNTRY ESTATES No. 3
ROCKWALL COUNTY, TEXAS

DESIGNED: JPS
DRAWN: CM, JCS
CHECKED: JPS

DATE: NOVEMBER, 2011
PROJECT No.: E-1030

SHEET: 14

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