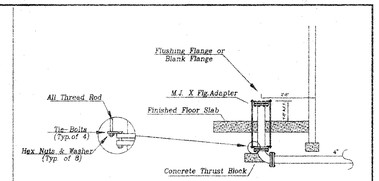
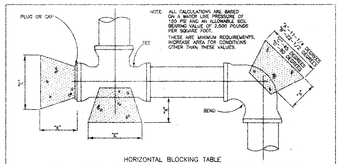
71-818



Spigot Detail
N.T.S.



HORIZONTAL BLOCKING TABLE

PIPE SIZE	"A" DIM. FT.	11-1/4 DEGREES "A"	11-1/4 DEGREES MIN. AREA	22-1/2 DEGREES "A"	22-1/2 DEGREES MIN. AREA	45 DEGREES "A"	45 DEGREES MIN. AREA	90 DEGREES "A"	90 DEGREES MIN. AREA	TEE & PLUG "A"	TEE & PLUG MIN. AREA
4"	1.5	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
6"	1.5	1.00	1.00	1.00	1.00	1.14	1.30	1.65	2.40	1.30	1.70
8"	1.5	1.00	1.00	1.08	1.18	1.52	2.31	2.67	4.27	1.74	3.02
10"	1.5	1.00	1.00	1.33	1.84	1.90	3.61	3.28	6.99	2.17	4.71
12"	1.5	1.00	1.53	1.92	2.85	1.98	5.19	3.42	9.00	2.61	6.79
14"	1.5	1.03	1.81	1.90	3.87	2.60	7.27	3.91	13.00	3.04	9.24
16"	2.0	1.18	2.36	2.17	4.71	3.04	9.23	4.15	17.06	3.47	12.06
18"	2.0	1.31	2.95	2.41	5.95	3.42	11.85	4.85	21.76	3.91	15.27
20"	2.0	1.46	3.70	2.71	7.38	3.80	14.62	5.14	26.96	4.34	18.85
24"	2.0	1.75	4.07	2.85	8.11	3.80	15.51	5.42	29.25	4.56	20.75
24"	3.0	1.77	9.22	3.25	10.55	4.56	20.77	6.20	38.39	5.21	27.14
27"	3.5	1.95	8.73	3.95	15.45	5.13	28.63	6.87	49.98	5.85	34.35
30"	2.5	2.22	8.31	4.07	15.20	5.70	30.46	7.74	59.98	6.51	42.41
30"	3.5	2.44	12.09	4.42	20.02	6.27	39.28	8.52	76.37	7.15	51.97
36"	2.5	2.66	11.97	4.86	23.89	6.84	46.74	9.29	89.57	7.81	61.97
36"	3.0	2.68	14.09	5.33	27.27	7.41	54.85	10.07	101.36	8.47	71.86
42"	3.0	3.10	16.30	5.89	32.43	7.98	63.80	10.86	117.56	9.12	83.13

NOTE: CLASS "B" CONCRETE 2,000 PSI SHALL BE USED FOR ALL BLOCKING UNLESS OTHERWISE NOTED ON STANDARD DETAILS, IMO / OR PLANS.

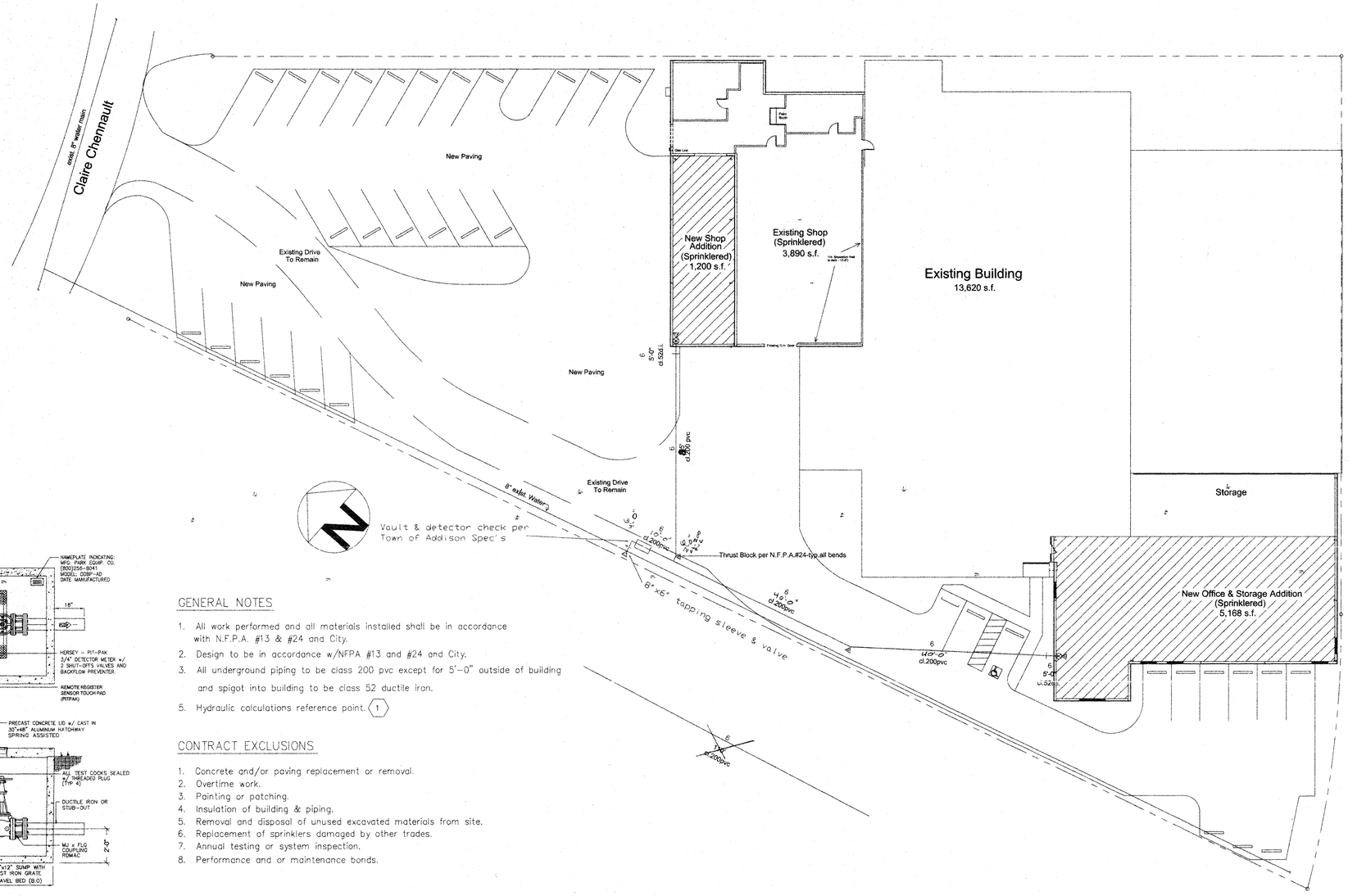
THE MINIMUM VERTICAL DIMENSION OF ALL BLOCKING SHALL BE 1.5 TIMES THE HORIZONTAL DIMENSION. THIS DIMENSION IS TO BE MEASURED FROM THE PIPE INVERT AND BELOW THE TRENCH CONTOURS. THIS DIMENSION DETERMINES THE "A" DIMENSION FOR 11-1/4° BENDS.

FOR 22-1/2°, 45°, 90°, AND TEES AND PLUGS, THE VERTICAL DIMENSION SHALL BE EQUAL TO THE HORIZONTAL DIMENSION SHOWN TO PRODUCE THE REQUIRED MINIMUM AREA.

ALL MINIMUM AREAS ARE IN SQUARE FEET.

BLOCKING TO BE AGAINST UNDISTURBED TRENCH WALLS AND BOTTOM.

HORIZONTAL THRUST BLOCKING DETAILS



WATER FLOW TEST INFO
PER CITY OF ADDISON
TEST TAKEN JUNE 6 , 2000
BY WATER DEPARTMENT

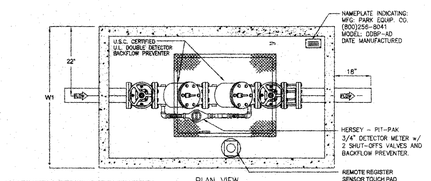
STATIC------57 P.S.I.
RESIDUAL----51 P.S.I.
FLOWING---2342 G.P.M.
FROM (1) 2 1/2" OUTLET
PITOT=69
TEST LOCATION--- STATIC HYDRANT @ CLAIRE CHENAULT
RESIDUAL HYDRANT @ CLAIRE CHENNAULT
8" CIRCULATING MAIN

GENERAL NOTES

1. All work performed and all materials installed shall be in accordance with N.F.P.A. #13 & #24 and City.
2. Design to be in accordance w/NFPA #13 and #24 and City.
3. All underground piping to be class 200 pvc except for 5'-0" outside of building and spigot into building to be class 52 ductile iron.
5. Hydraulic calculations reference point. (1)

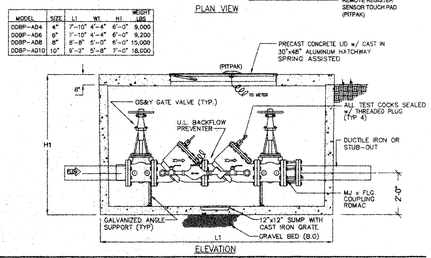
CONTRACT EXCLUSIONS

1. Concrete and/or paving replacement or removal.
2. Overtime work.
3. Painting or patching.
4. Insulation of building & piping.
5. Removal and disposal of unused excavated materials from site.
6. Replacement of sprinklers damaged by other trades.
7. Annual testing or system inspection.
8. Performance and or maintenance bonds.



PLAN VIEW

MODEL	SIZE	L1	W1	H1	WEIGHT LBS
DDBP-AD4	4"	7'-10"	4'-4"	6'-0"	9,000
DDBP-AD6	6"	7'-10"	4'-4"	6'-0"	9,200
DDBP-AD8	8"	8'-8"	5'-0"	6'-0"	15,000
DDBP-AD10	10"	9'-0"	5'-8"	7'-0"	18,000



ELEVATION

Specifications

CONCRETE : Class A concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor and first stage of wall with sectional riser to required depth.

REINFORCEMENT: Grade 60 reinforced. Steel rebar conforming to ASTM A615 on required centers or equal.

HATCHWAY: 1/4" Aluminum diamond plate cover, with 1/4" extruded aluminum frame. Hatch to be furnished with 316 Stainless Steel snap lock & hinges.

Engineering Data

The backflow assembly shall be factory assembled in vault & hydrostatically tested prior to delivery. Field excavation & preparation shall be complete prior to delivery. Pipe, valves and fittings of the assembly shall be approved by one or more of the following associations:

AWWA UL FM

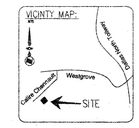
PROJECT : Keith Products
CUSTOMER : Urban Fire Protection
ENGINEER :

PARK EQUIPMENT COMPANY
MTE 800-256-3041

CITY OF ADDISON

4" THRU 10" DOUBLE DETECTOR CHECK BACKFLOW PREVENTER ASSEMBLY

SCALE	NONE	DWG. NO.	REV.
DATE	8/97	DDBP-AD	A



DRAWING SUBMITTED FOR REVIEW
I hereby certify that this sprinkler system has been designed in accordance with the specifications, contract agreements, local ordinances, building codes, or applicable NFPA standards adopted by the Authority having Jurisdiction.

Gary D. Turner Date 1-10-01
RME # 0421-GD

AS BUILT

REVISIONS DATE	DESCRIPTION	BY

SPRINKLERS ON SHEET 155°	20.8°	200°	175°	SYMBOL	SIZE	SPRINKLER DESCRIPTION

TOTAL SPRINKLERS THIS SHEET: TOTAL SPRINKLERS ON JOB:

URBAN FIRE PROTECTION
222 S. Town East Blvd.
Mesquite, Texas 75149
(972) 289-4887
TEXAS SCR #0319

Automatic Fire Sprinkler System for:

Keith Products
4554 Claire Chennault
Addison, Texas

FIRE SPRINKLER	
CONTRACT NO.	C-1529
APPROVAL	CITY
DESIGNED BY:	J.R.Z.
CHECKED BY:	G.D.T.
SCALE	AS-NOTED
DATE	5-26-00
REVISED PLOTTED	FP-1OF1

JAN 11 2001

KEITH PRODUCTS