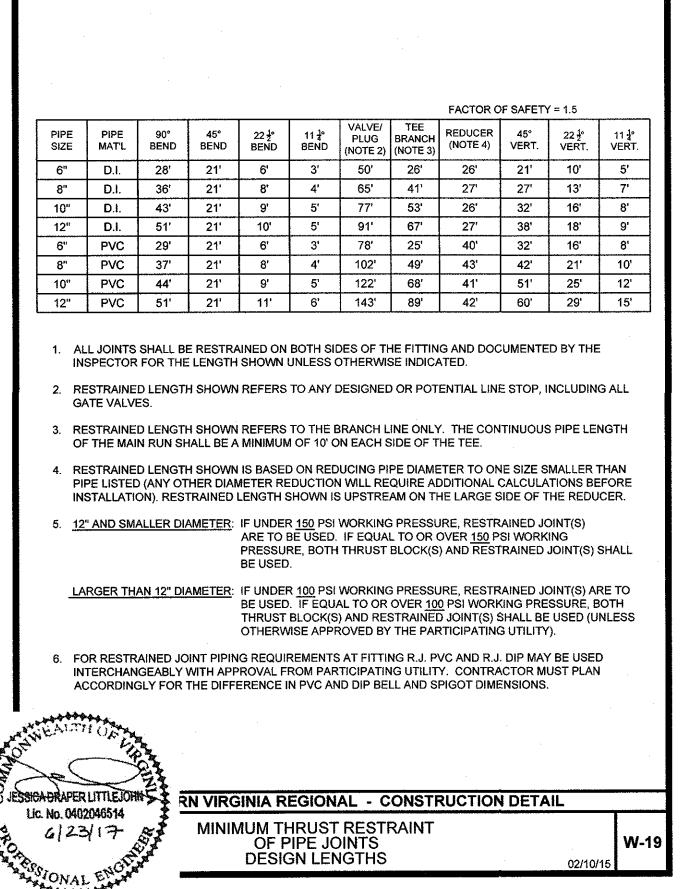
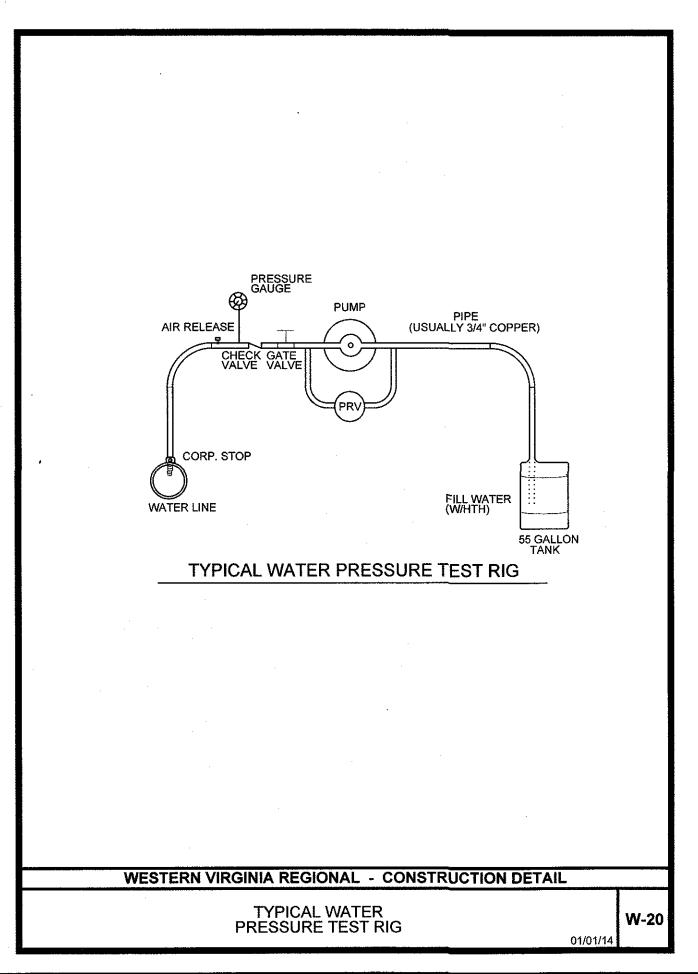
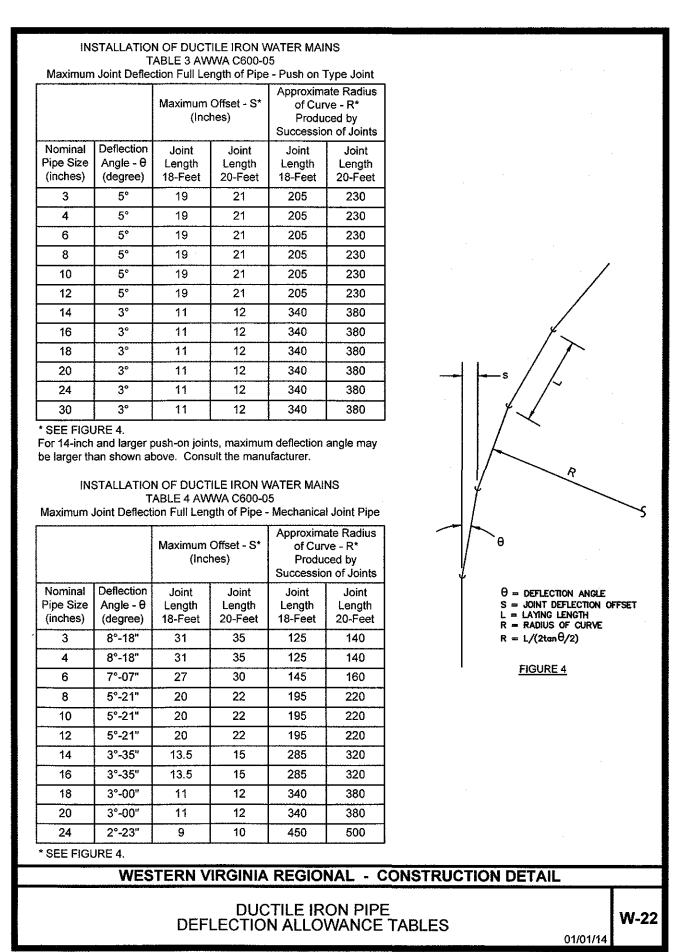


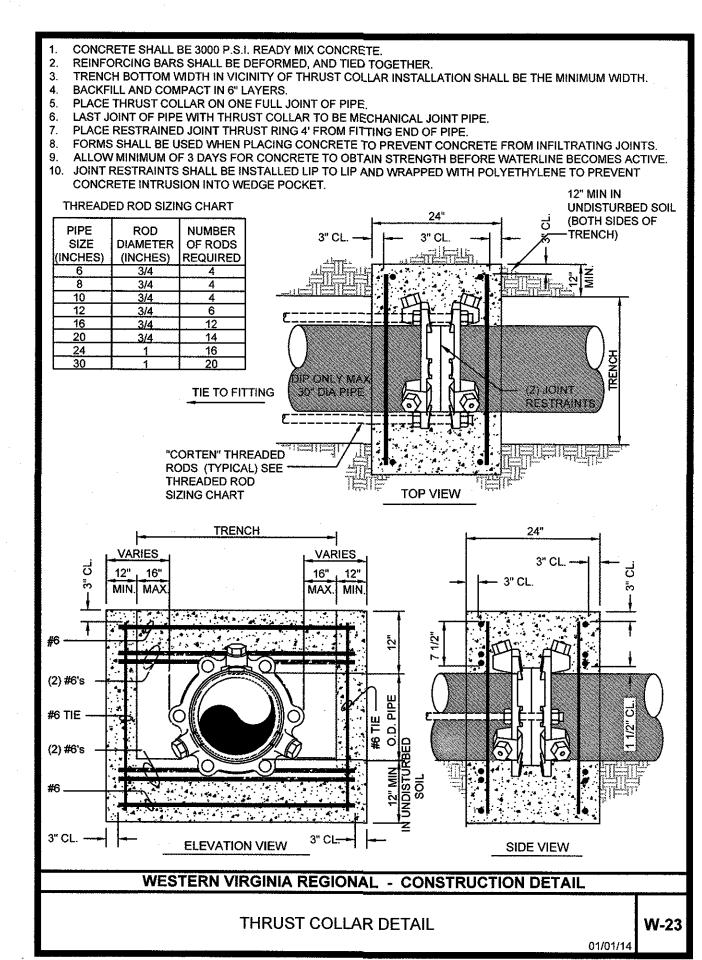
1.	
2.	PAINTED SILVER WITH AN OIL-BASED PAINT UNLESS OTHERWISE SPECIFIED BY THE JURISDICTIONAL FIRE MARSHALL. FIRE HYDRANT SHALL BE INSTALLED 2' MIN, AND 4' MAX, FROM BACK OF CURB OR 6' MIN, AND 12' MAX. FROM EDGE
	OF PAVEMENT WHEN CURB IS NOT PRESENT. FIRE HYDRANT TO BE INSTALLED WITHIN RIGHT-OF-WAY OR EASEMENT LINE.
3. 4.	AREA AROUND HYDRANT AT A RADIUS OF 4' TO BE LEVEL AND UNOBSTRUCTED. WATERPROOF BAGS OR OUT OF SERVICE RINGS SHALL BE PLACED OVER ALL NEWLY INSTALLED FIRE HYDRANTS.
5. 6.	HYDRANT ASSEMBLIES SHALL BE RODDED AND RESTRAINED WITH APPROVED M.J. GLAND RESTRAINTS. HIGH PRESSURE (OVER 150 PSI) ALSO REQUIRES CONCRETE THRUST BLOCKS AS SHOWN BELOW.
0.	PROPOSED HYDRANT. THE PARTICIPATING UTILITY WILL BE NOTIFIED IMMEDIATELY SO THAT THE HYDRANT CAN BE RELOCATED TO A SUITABLE LOCATION, OMITTED, OR THE DRAIN HOLE PLUGGED.
7.	TWO WRAPS OF TRACER WIRE SHALL BE WRAPPED AROUND BASE OF HYDRANT. APPROVED MODELS - AVK MODEL 2780, AFC MODEL B-84-B-5, MUELLER CENTURION A423, KENNEDY K81D OR
9.	EQUIVALENT.
V.	THE CONTINUOUS SECTION OF PIPE ON EACH SIDE OF THE GATE VALVE UNFEASIBLE, <u>RESTRAINED</u> PIPE JOINTS SHALL BE INSTALLED BETWEEN THE TEE AND GATE VALVE IN LIEU OF RODDING. HOWEVER, A RODDED CONTINUOUS SECTION OF PIPE SHALL ALWAYS BE INSTALLED BETWEEN THE GATE VALVE AND HYDRANT.
	VARIES
	(NO OBSTRUCTIONS)
	2 - 2 1/2" NOZZLES 1 - 4 1/2" PUMPER NOZZLE (FACING THE ROAD)
AVK	MODEL 2780,
	MODEL B-84-B-5, ILLER CENTURION TE
	R, KENNEDY K81D OR POST NAME OF THE STATE OF
FINIS	O III & S 21Y21Y4"CONCRETE DAD
	VALVE BOX (W/ ADAPTOR) IF OUTSID
	VAULT UNDER PAVEMENT
	STANDARD INSTALLATION INCLUDES FOSTER ADAPTER OR APPROVED EQUAL
	CONTINUOUS CONTINUOUS SECTION OF PIPE MAIN WATER MAIN
	0.5 CY CLEAN (NON-CORROSIVE) CONCRETE
	STONE VDOT #57 THREADED ROD AND NUTS FOR DRAINAGE TRACER WIRE SEE GENERAL DETAIL THRUST BLOCK (IF REQUIRED)
	APPROVED M.J. GLAND RESTRAINT / TEE MAIN
BLOC	CRETE BASE AND THRUST CK (IF REQUIRED) AGAINST CHURED SOIL, CONCRETE ALL NOT COVER HYDRANT (i.e. MEGALUGS, GRIP RINGS OR LINE SIZE UNI-FLANGE) SHALL BE USED AT ALL M.J. FITTINGS HYDRANT
311/	DRAIN M.J. FITTINGS SHALL NOT
	BE ENCASED IN CONCRETE
	WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL
	FIRE HYDRANT W-17
	ASSEMBLY 02/10/15
	02,10,10

			X		IN. THRUST BLOCK (TYP.) 4 DS DS			C MIN		PLA	18 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	-	
	18" MIN10"DIA. & LESS 24" MIN12"DIA. & GREATER TYP. CONC. THRUST BLOCK MIN. 2" INTO UNDISTURBED MAT. ON 3 SIDES SECTION X-X UNDISTURBED SOIL (TYP.) BENDS AND TEES 1. FOR VERT. BEND DOWN IN EXCESS OF 11 1/4" BEND, ANCHORAGE SHALL BE DESIGNED BY ENGINEER. 2. FOR VERT. BEND UPWARD, BLOCKING TO BE SIMILAR TO THAT FOR HORZ. BEND. 3. GLANDS & BOLTS SHALL BE PROTECTED FROM CONC. WITH PLASTIC SHEETING WHEN POURING THRUST BLOCKS 4. ALL THRUST BLOCK & SUPPORT CONCRETE SHALL BE 3000 PSI READY MIX CONCRETE. PRESSURE = 200psi BEARING = 2000psi BEARING = 2000psi FACTOR OF SAFETY = 1.5													
	PIPE	90° B	END	ND 45° BEND		22 ½° BEND		11 ½° BEND		TEE		PLUG		
	SIZE	Α	В	Α	В	A	В	A4	В	A	- <u>-</u> В	С	D	
	4"	8"	12"	8"	8"	6"	6"	6"	6"	11"	9"	10"	6"	
	6"	18"	12"	8"	10"	8"	8"	8"	8"	11"	10"	12"	18"	
	8"	18"	13"	10"	10"	8"	8"	8"	8"	11"	12"	12"	24"	
	10"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"	
	12"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"	
	16"	26"	20"	16"	18"	11"	13"	11"	13"	18"	20"	20"	36"	
	24"	82"	42"	62"	30"	44"	22"	22"	16"	82"	42"	82"	42"	
	30"	185"	42"	100"	42"	52"	42"	40"	30"	185"	42"	185"	42"	
		14	/EQTE	DNI V/ID	CINIA	DEGIC	NA L	CON	CTDII/	TION	DETAI	1		
WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL THRUST BLOCK REQUIREMENTS 02/10/15													W-18	











ANDERSON & ASSOCIATES, INC. 100 Ardmore St.

DATE : 01 JUN 16 DESIGNED: BJM DRAWN : BJM CHECKED: DAA Blacksburg, Va. 24060 540-552-5592 QA/QC : RSB

WWWA COMMENTS

20 SEP 16

ELM AVENUE WATER MAIN REPLACEMENT - PHASE 2 WESTERN VIRGINIA WATER AUTHORITY

WVWA STANDARD DETAILS 3

DOCUMENT NO. **32125 – 018** SHEET

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