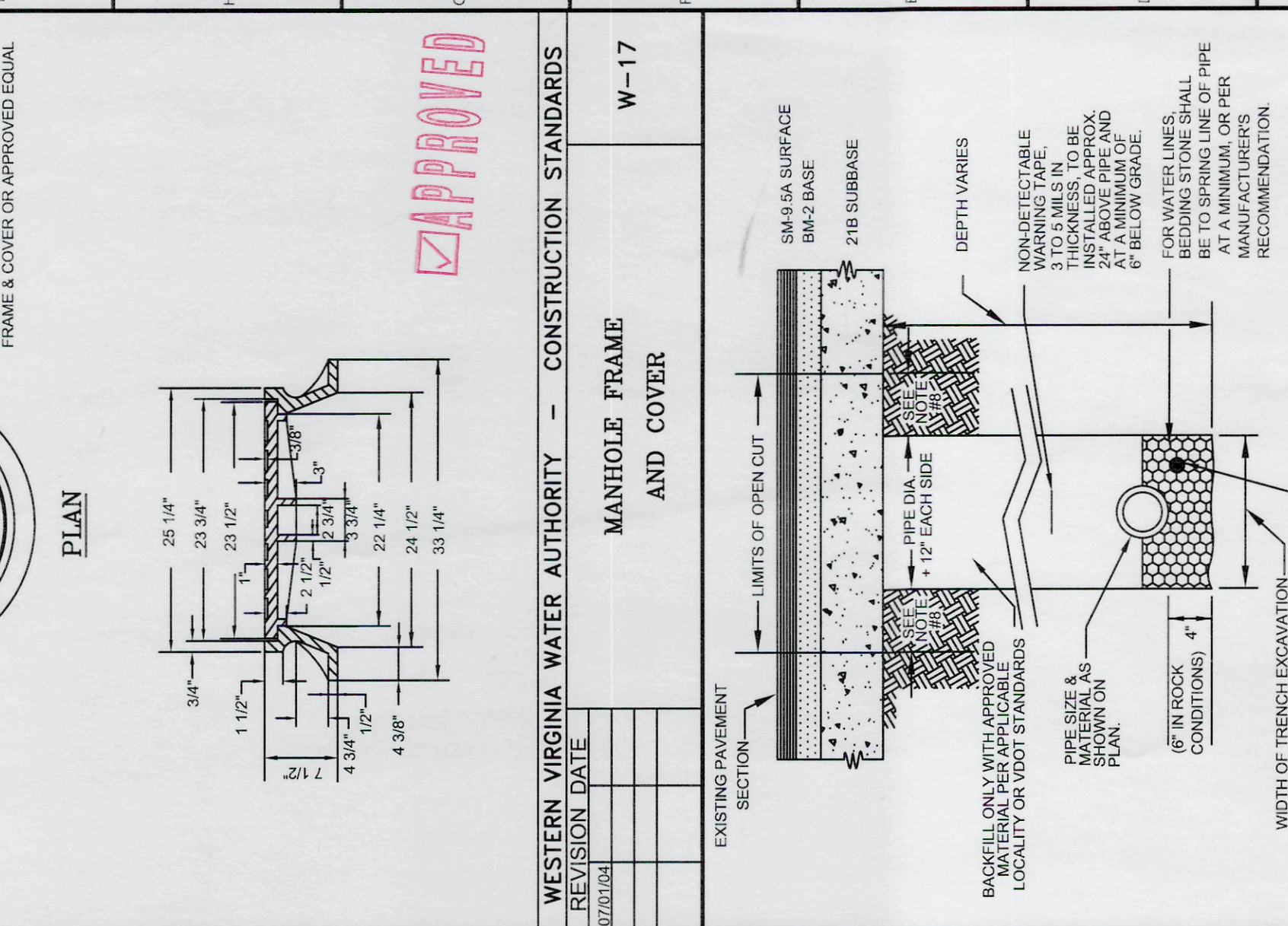
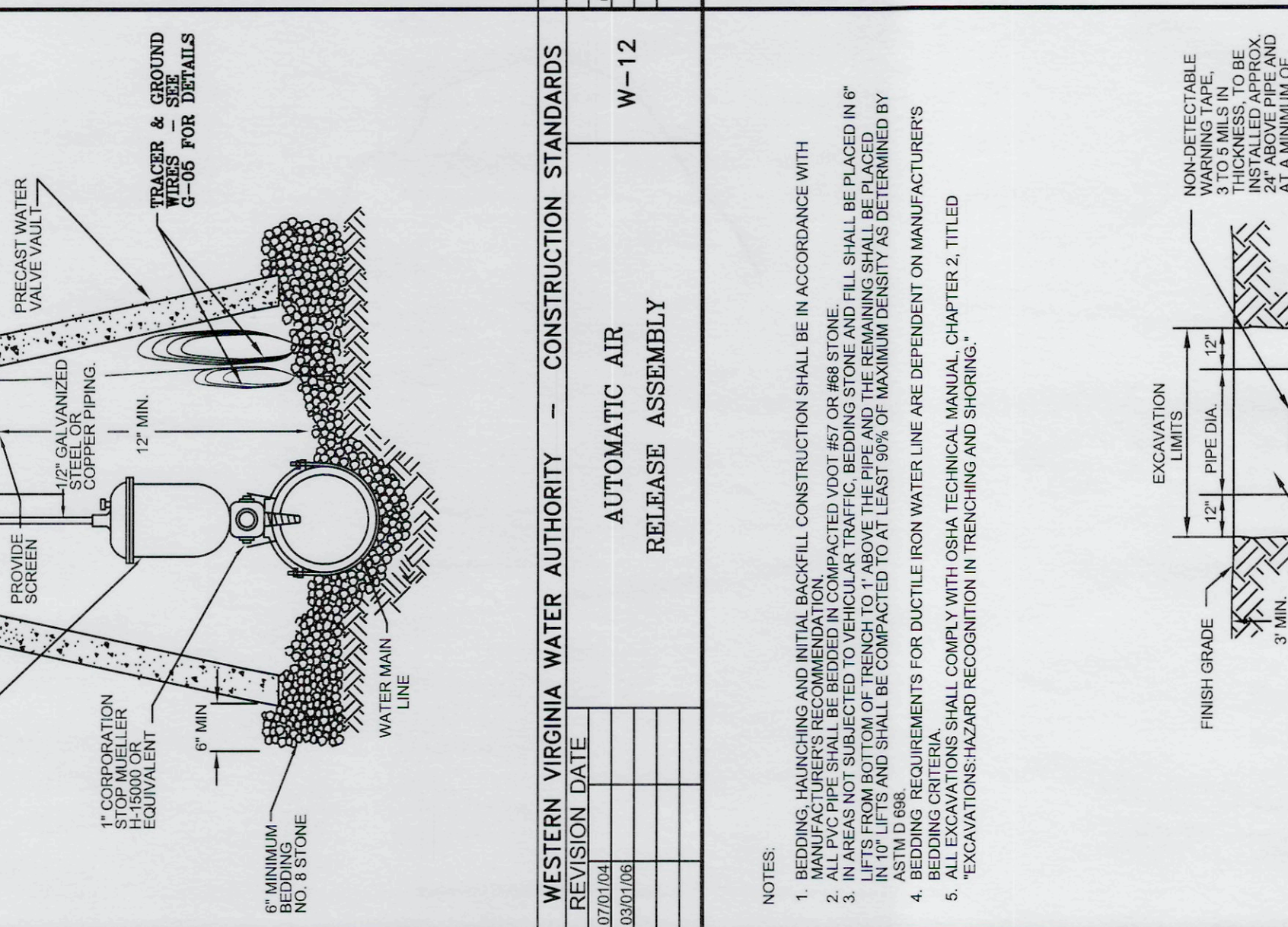
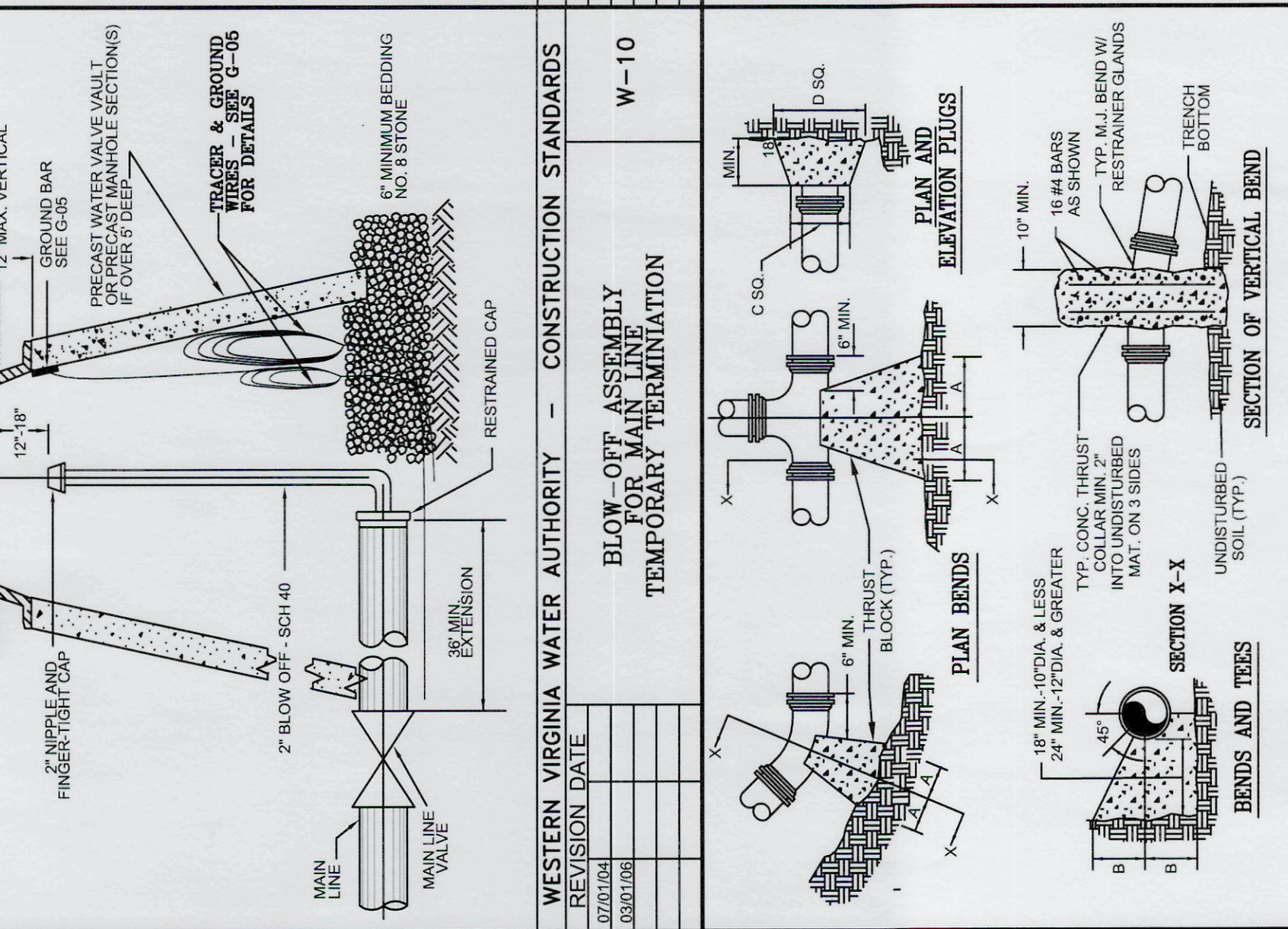
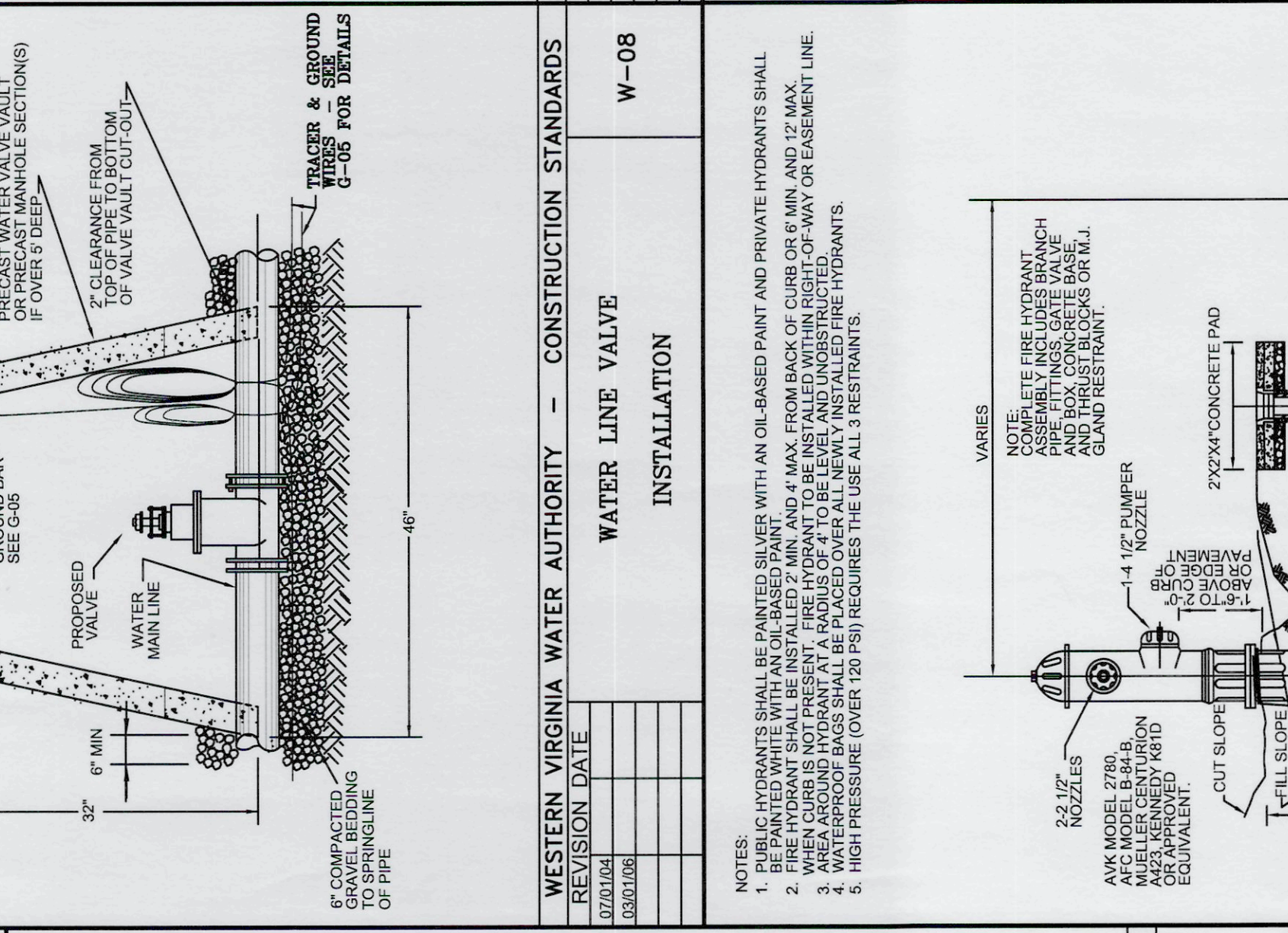
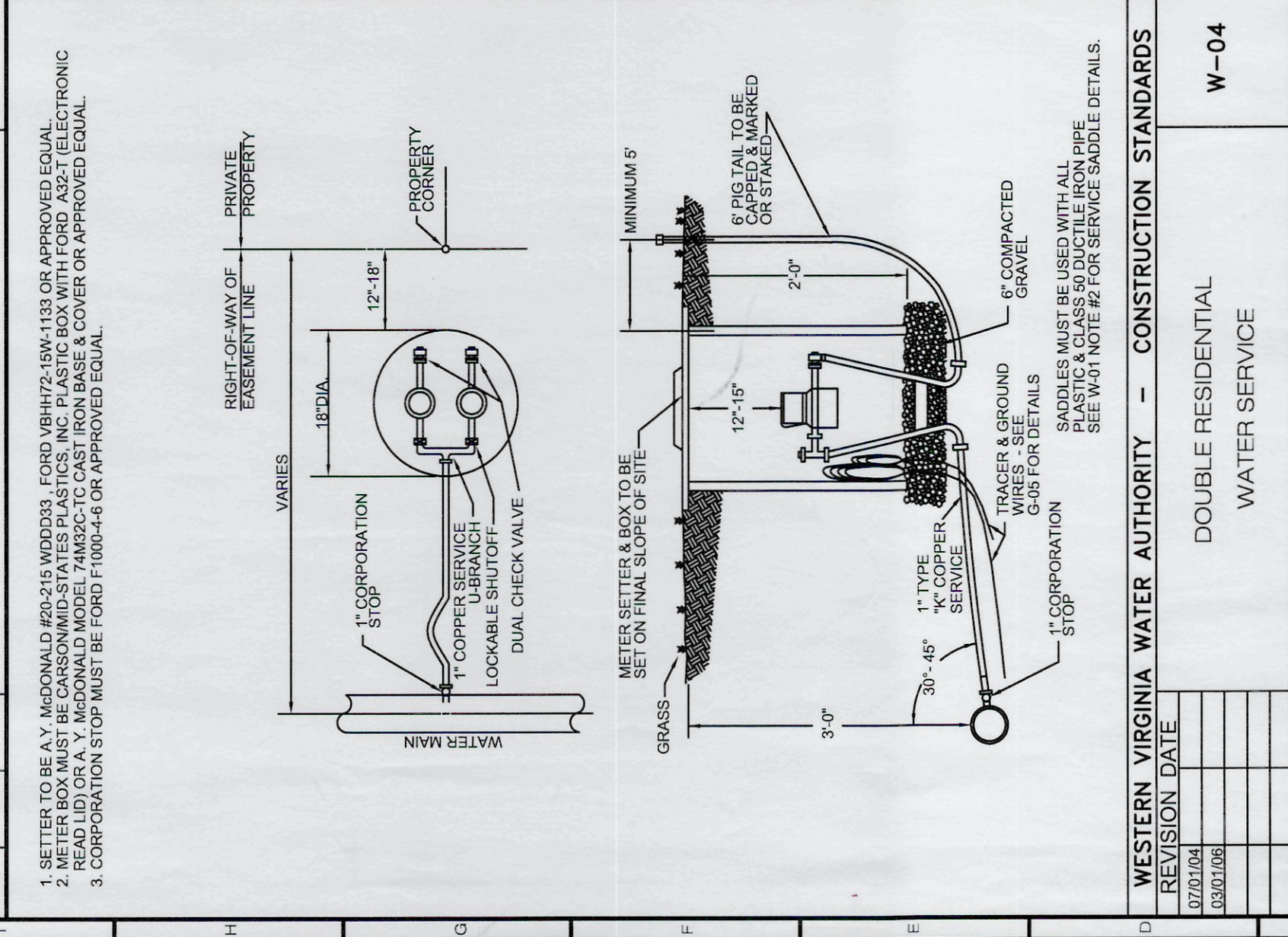




STANDARD INSTALLATION INCLUDES RASTER ADAPTER OR APPROVED EQUAL

WAVE BOX OUTSIDE
FLANGE OR VALVE
GASKET
NUT
UNDER PAVEMENT

CONTINUOUS SECTION OF PIPE

CONCRETE THRUST BLOCK

THRUST ROD AND NUTS

TRACER WIRE - SEE G-05 FOR DETAILS

APPROVED M.J. GLAND RESISTANT UNI-FLANGE MAY BE SUBSTITUTED FOR CONCRETE THRUST BLOCKS.

M.J. FITTINGS SHALL NOT BE ENCASED IN CONCRETE

CONCRETE BASE AND THRUST BLOCK AGAINST UNDISTURBED GROUND

COVER HYDRANT DRAIN

2' MIN. COVER

4' CU. FT. GRAVEL

1' MIN. COVER

WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS	
FIRE HYDRANT ASSEMBLY	
W-18	
REVISION	
07/02/04	
03/01/06	

[illegible]

FOR WATERLINE INSTALLATIONS ONLY - LOCATION OF TRACER WIRE WITH NON METALLIC PRESSURE PIPE - 12 GAUGE SIZE COPPER WIRE		18 19 20 21	
NOTES: 1. BEDDING, HAUNCHING AND INITIAL BACKFILL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AASHTO M 214. 2. ALL PIPES SHALL BE BEDDED IN COMPACTED VDOT #57 OR #68 STONE. 3. IN ROANOKE COUNTY, THE CONTRACTOR SHALL REPLACE THE OPEN CUT WITH A MINIMUM TOP OF 12" OF BEDDING. 4. IN ROANOKE COUNTY, CONTRACTOR SHALL REPLACE PAVEMENT AS REQUIRED OR AS REQUIRED BY VDOT. IN ROANOKE CITY, CONTRACTOR SHALL REPLACE PAVEMENT AS REQUIRED BY CITY OF ROANOKE WITHIN 10' OF WAY EXCAVATION AND RESTORATION STANDARDS. 5. ALL EXCAVATIONS SHALL BE TO THE RIGHT OF WAY. SHALL BE AS SPECIFIED BY VDOT OR APPLICABLE LOCALITY. 6. PRIOR TO CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS IN AREAS SUBJECT TO CONSTRUCTION. 7. IN AREAS SUBJECTED TO VEHICULAR TRAFFIC, BEDDING STONE AND FILL SHALL BE PLACED IN 6" LIFTS AND SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY AS DETERMINED BY STANDARD TESTS. 8. BEDDING REQUIREMENTS FOR DUCTILE WATER LINE ARE DEPENDENT ON MANUFACTURERS' RECOMMENDATIONS. 9. BENCHOUT ON EACH SIDE OF PAVEMENT, CITY OF ROANOKE SPECIES 12" VDOT RIGHT-OF-WAY EASES 6" ALL EXCAVATIONS SHALL COMPLY WITH OSIA TECHNICAL MANUAL, CHAPTER 2, TITLED "EDUCATIONS, HAZARD RECOGNITION IN TRUCKING AND SHOOTING."		S-31 & W-25	
WESTERN VIRGINIA WATER AUTHORITY - CONSTRUCTION STANDARDS		BEDDING AND BACKFILL UNDER PAVEMENT AND RIGHT-OF-WAY	
REVISION DATE		07/27/2014 08/01/2016 08/01/2016	

APPROVED

24 1/2"
33 1/4"

REVISION	DATE	DESCRIPTION	APPROVED

MANHOLE FRAME
AND COVER

W-17

WESTERN VIRGINIA WATER AUTHORITY

CONSTRUCTION STANDARDS

15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
WESTERN VIRGINIA WATER AUTHORITY										CONSTRUCTION STANDARDS										S-31 & W-25										BEDDING AND BACKFILL UNDER PAVEMENT AND RIGHT-OF-WAY																																																							
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