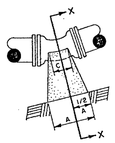

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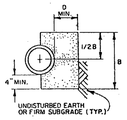


SECTION X-X

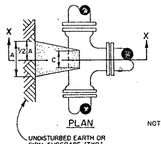
NOTE: INSTALL TWO LAYERS OF 15 LB. BUILDER'S FELT OR TWO LAYERS OF 6 MIL POLYETHYLENE BETWEEN CONCRETE AND FITTING.

PIPE DIAM.	11 1/4° BEND					22 1/2° BEND				
	A	B	C	D	E	A	B	C	D	E
3"	4"	12"	4"	6"	2"	6"	12"	6"	7"	2"
4"	4"	12"	4"	6"	2"	6"	12"	6"	7"	2"
6"	6"	14"	6"	7"	2"	8"	14"	6"	8"	2"
8"	8"	16"	8"	7"	2"	12"	16"	8"	8"	4"
10"	9"	18"	8"	8"	4"	15"	18"	8"	10"	4"
12"	12"	20"	12"	9"	4"	18"	20"	12"	12"	6"
16"	15"	24"	12"	9"	6"	24"	24"	12"	15"	6"
20"	30"	12"	10"	10"	6"	30"	30"	12"	18"	9"
24"	18"	36"	12"	12"	6"	36"	36"	12"	18"	9"
30"	24"	42"	16"	14"	9"	48"	42"	16"	21"	12"

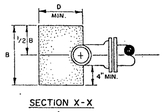
BASED ON NORMAL OPERATING PRESSURE UP TO 150 PSI

E* ADDITIONAL LENGTH TO BE ADDED TO DIMENSION "A" FOR EACH ADDITIONAL 50 PSI PRESSURE UP TO 300 PSI

11 1/4° - 22 1/2° BENDS



PLAN

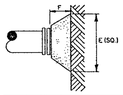


SECTION X-X

NOTE: INSTALL TWO LAYERS OF 15 LB. BUILDER'S FELT OR TWO LAYERS OF 6 MIL POLYETHYLENE BETWEEN CONCRETE AND FITTING.

TEE	BRANCH DIAMETER									
	3"	4"	6"	8"	10"	12"	16"	20"	24"	30"
A	12"	12"	16"	18"	26"	30"	40"	48"	60"	80"
B	12"	16"	20"	30"	32"	42"	56"	72"	80"	96"
C	8"	8"	12"	12"	12"	12"	16"	24"	24"	24"
D	6"	6"	8"	9"	10"	12"	14"	18"	20"	24"

BASED ON NORMAL OPERATING PRESSURE UP TO 150 PSI



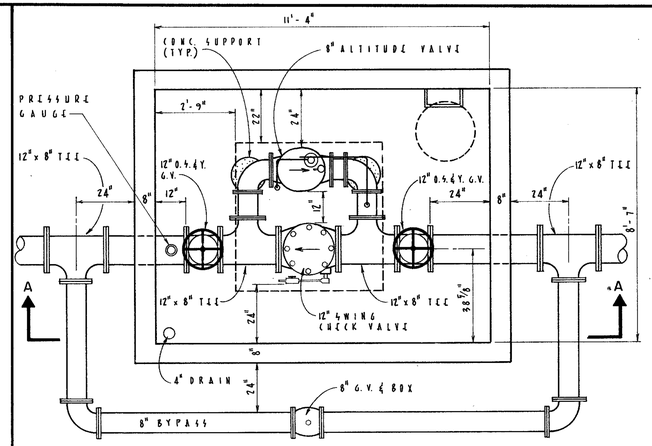
NOTE: INSTALL TWO LAYERS OF 15 LB. BUILDER'S FELT OR TWO LAYERS OF 6 MIL POLYETHYLENE BETWEEN CONCRETE AND FITTING.

PLUG	PIPE DIAMETER									
	3"	4"	6"	8"	10"	12"	16"	20"	24"	30"
E	14"	16"	21"	29"	36"	41"	54"	64"	75"	88"
F	8"	8"	10"	10"	12"	14"	16"	18"	20"	24"

BASED ON NORMAL OPERATING PRESSURE UP TO 150 PSI

TEES, TAPPING SLEEVES, PLUGS & CAPS

THRUST BLOCK DETAILS



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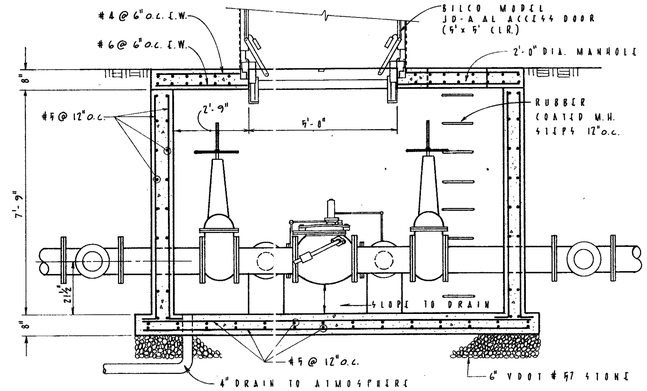


SECTION A-A

DETAIL - ALTITUDE VALVE VAULT
(NOT TO SCALE)

GENERAL CONSTRUCTION NOTES

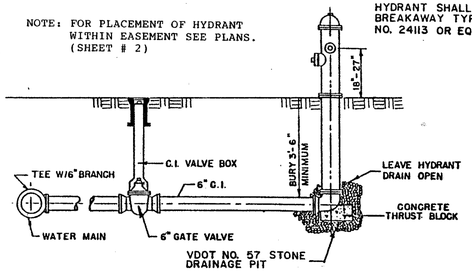
1. ALL CONSTRUCTION MATERIALS AND INSTALLATION SHALL CONFORM TO CONTRACT DOCUMENTS FOR THE TEMPLE AVENUE WATER LINE EXTENSION, COUNTY OF PRINCE GEORGE, VIRGINIA.
2. THE CONTRACTOR SHALL BE REPSONSIBLE FOR NOTIFYING THE COUNTY OF PRINCE GEORGE ENGINEER AND SCHEDULING A PRE-CONSTRUCTION MEETING AT LEAST 72 HOURS PRIOR TO STARTING ANY CONSTRUCTION ON THE PROJECT. ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE COUNTY.
3. THE CONTRACTOR SHALL CONTACT "MISS UTILITY" TOLL FREE AT 1-800-552-7001 AT LEAST 72 HOURS PRIOR TO THE START OF ANY CONSTRUCTION.
4. THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES ACROSS AND ALONG THE ROUTE OF THE PROPOSED WATER LINE ARE NOT NECESSARILY SHOWN ON THE PLANS AND, WHERE SHOWN, ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL, ON HIS OWN INITIATIVE AND AT NO EXTRA COST, LOCATE ALL UNDERGROUND LINES AND STRUCTURES AS REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED WATER LINE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DAMAGE TO ANY UNDERGROUND LINE OR STRUCTURE. THE CONTRACTOR SHALL CONTACT THE COUNTY IMMEDIATELY IF THE LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLAN OR IF THERE APPEARS TO BE A CONFLICT UPON THE DISCOVERY OF THE EXACT LOCATION AND ELEVATION OF ANY UNDERGROUND LINE OR STRUCTURE.
5. ALL WATER LINE SHALL HAVE A MINIMUM COVER OF 3.5 FEET. ALL FIRE HYDRANT LATERALS CROSSING DITCH LINES SHALL HAVE A MINIMUM OF 3.5 FEET AT THE DITCH LINE.
6. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL SHOWN ON THE PLANS.
7. NOT MORE THAN 500 FEET OF WATER LINE TRENCH SHALL BE DISTURBED AT ANY ONE TIME. RESTORATION OF THE TRENCH SHALL PROCEED IMMEDIATELY AFTER BACKFILL. PAYMENT FOR INSTALLATION OF WATER LINE SHALL NOT BE MADE UNTIL THE RESTORATION IS COMPLETE.
8. ALL BENDS, TEES, FITTINGS, ETC. SHALL BE BLOCKED AS PER DETAILS ON PLANS.
9. THE DETAILED DESIGN OF THE TANK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT ALL FOUNDATION DESIGN, SOIL DATA, DRAIN AND OVERFLOW PIPE DESIGN, RISER PIPE DESIGN, TANK STRUCTURAL DESIGN AND ALL OTHER APPLICABLE DESIGNS AND SHOP DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL.
10. THE CONTRACTOR SHALL MAINTAIN ACCESS ALONG THE EXISTING PAVED ROAD AT ALL TIMES DURING CONSTRUCTION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THIS PROJECT WITH THE TEMPLE AVENUE WATER LINE PROJECT ALONG ROUTE 106 AND THE TEMPLE AVENUE WATER PUMPING STATION PROJECT.

EROSION AND SEDIMENTATION CONTROL NOTES

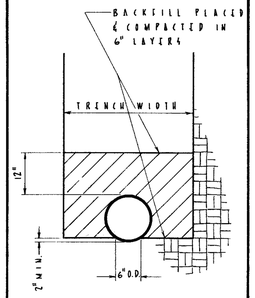
1. CONTRACTOR SHALL INSTALL EROSION CONTROL DEVICES AS REQUIRED DURING CONSTRUCTION IN GENERAL CONFORMANCE WITH THE VIRGINIA EROSION AND SEDIMENTATION CONTROL HANDBOOK.
2. ALL EROSION CONTROL DEVICES AND SILTATION CONTROL DEVICES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN THE CONSTRUCTION.
3. ALL TEMPORARY EARTH BERMS, DIVERSION DAMS ARE TO BE MULCHED AND SEEDED FOR TEMPORARY VEGETATIVE COVER WITHIN TEN (10) DAYS AFTER THE GRADING HAS BEEN COMPLETED.
4. ANY DISTURBED AREA NOT PAVED, SODDED, OR BUILT UPON WITHIN THIRTY (30) DAYS SHALL BE SEEDED WITH OATS, ABRUZZI RYE, OR EQUIVALENT AND MULCHED WITH HAY OR STRAW.
5. ALL STORM AND SANITARY SEWER LINES NOT IN THE STREETS ARE TO BE MULCHED AND SEEDED WITHIN FIFTEEN (15) DAYS AFTER BACKFILL.
6. DURING CONSTRUCTION ALL STORM SEWER INLETS SHALL BE PROTECTED BY SILT TRAPS, MAINTAINED AND MODIFIED AS REQUIRED BY THE PROGRESS OF THE CONSTRUCTION.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT ALL EROSION CONTROL DEVICES PERIODICALLY AND AFTER EVERY RAINFALL ANY NECESSARY REPAIR AND/OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
8. DURING CONSTRUCTION, SHOULD THE PRINCE GEORGE COUNTY ENGINEER OR INSPECTOR REVEAL THE NEED FOR ADDITIONAL EROSION CONTROL DEVICES, THEY SHALL BE INSTALLED AT THE COUNTY'S DIRECTION.
9. TEMPORARY STRAW BALES WILL BE USED AS DITCH CHECKS ALONG THE ROUTE OF THE WATER LINE WHERE REQUIRED AND DIRECTED BY THE COUNTY. THE TEMPORARY STRAW BALES SHALL BE INSTALLED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENTATION CONTROL HANDBOOK.

NOTE: FOR PLACEMENT OF HYDRANT WITHIN EASEMENT SEE PLANS. (SHEET # 2)

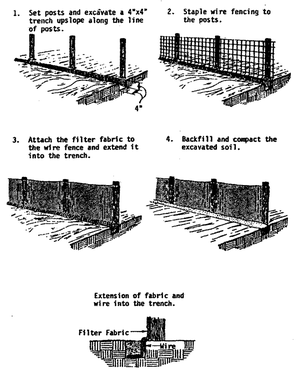
HYDRANT SHALL BE OF THE BREAKAWAY TYPE MUELLER NO. 24113 OR EQUAL



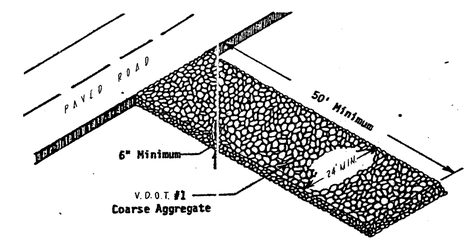
DETAIL - FIRE HYDRANT
(NOT TO SCALE)



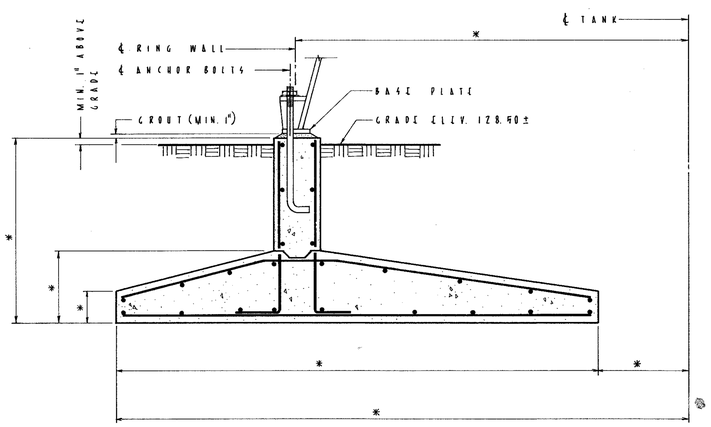
STANDARD TRENCH DETAIL - WATER MAIN (NOT TO SCALE)



DETAIL-SILT FENCE
(NOT TO SCALE)

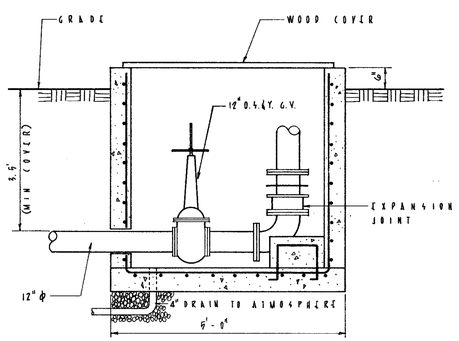


DETAIL - CONSTRUCTION ENTRANCE
(NOT TO SCALE)

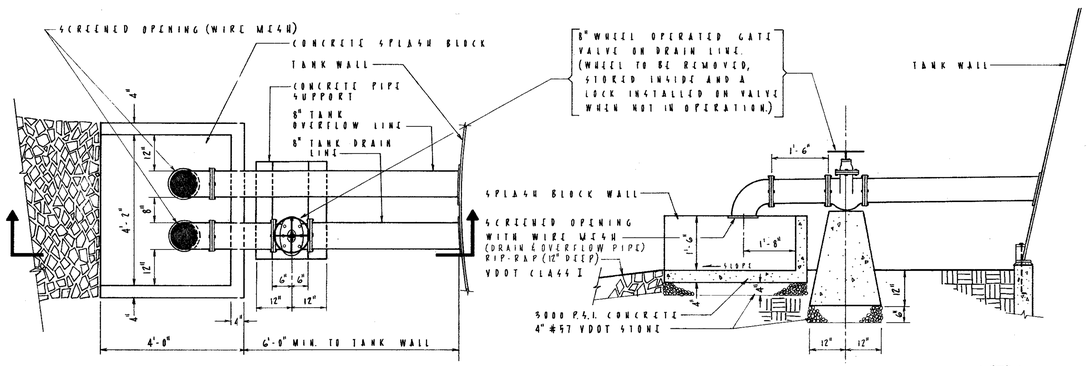


DETAIL - PEDESTAL FOUNDATION
(NOT TO SCALE)

* FOUNDATION DIMENSIONS TO BE BASED ON DESIGN BY CONTRACTOR. FOUNDATION DESIGN TO BE IN ACCORDANCE WITH AWWA - D100, LATEST EDITION.



ELEVATION OF RISER PIPE IN FOUNDATION WITH VALVE PIT
(NOT TO SCALE)



PLAN

SECTION A-A

DETAIL - DRAIN & OVERFLOW DISCHARGE

COMMONWEALTH OF VIRGINIA
FREDERICK T. M. TRIBBLE
No. 10055
PROFESSIONAL ENGINEER

DRAPER – ADEN ASSOCIATES, INC. CONSULTING ENGINEERS RICHMOND, VIRGINIA	DESIGNED FTP DRAWN HLJ CHECKED JNL DATE 2/29/88	TEMPLE AVENUE WATER LINE EXTENSION GENERAL NOTES, EROSION CONTROL NOTES & MISCELLANEOUS DETAILS COUNTY OF PRINCE GEORGE, VIRGINIA	REVISIONS: 4/28/88	SCALE: AS NOTED PLAN Nº T - 20057 II	SHEET 4 OF 5

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