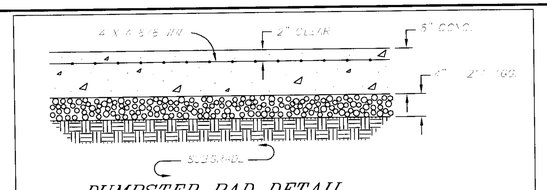
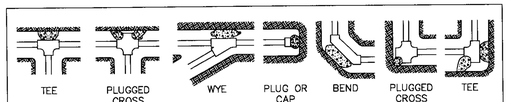


DUMPSTER PAD DETAIL

N.T.S.



BEARING AREA OF THRUST BLOCKS IN SQ. FT.			
FITTING SIZE	TEE, HYD, WYE, PLUG OR CAP	90° BEND PLUGGED CROSS	45° BEND
4	2	2	2
6	4	5	3
8	6	8	5
10	9	13	7
12	13	18	10
14	18	25	14
16	23	32	18

NOTES

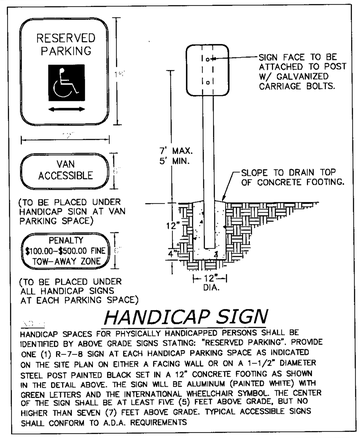
1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
2. KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES.
3. BEARING AREAS AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER BEARING AREAS AND BLOCKING DETAILS SHOWN ON THIS STANDARD DETAIL.

SIZE OF FITTING	MIN. C.Y. CONC. FOR BLOCKING
3"–8"	3/4
10"–12"	1–1/2
16"–24"	2

CONCRETE SHALL BE A-3 CONCRETE MEETING REQUIREMENTS OF ASTM C94

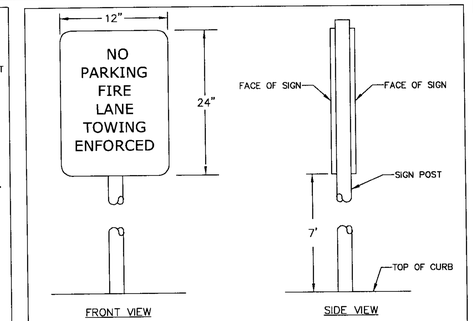
NOTE: ABOVE BEARING AREAS BASED ON TEST PRESSURES OF 225 PS AND ON ALLOWABLE SOIL BEARING STRESS OF 2000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA = (TEST PRESSURE/200) x (3500/SOIL BEARING STRESS) x (TABLE VALUE)

STANDARD THRUST BLOCKING DETAILS



HANDICAP SIGN

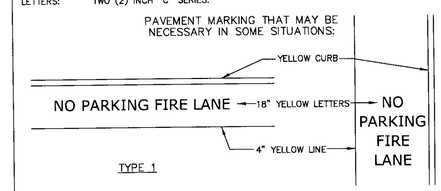
NOTE:
HANDICAP SPACES FOR PHYSICALLY HANDICAPPED PERSONS SHALL BE IDENTIFIED BY ABOVE GRADE SIGNS STATING: "RESERVED PARKING". PROVIDE ONE (1) R-7-8 SIGN AT EACH HANDICAP PARKING SPACE AS INDICATED ON THE SITE PLAN ON EITHER A FACING WALL OR ON A 1-1/2" DIAMETER STEEL POST PAINTED BLACK SET IN A 12" CONCRETE FOOTING AS SHOWN IN THE DETAIL ABOVE. THE SIGN WILL BE ALUMINUM (PAINTED WHITE) WITH GREEN LETTERS AND THE INTERNATIONAL WHEELCHAIR SYMBOL. THE CENTER OF THE SIGN SHALL BE AT LEAST FIVE (5) FEET ABOVE GRADE, BUT NO HIGHER THAN SEVEN (7) FEET ABOVE GRADE. TYPICAL ACCESSIBLE SIGNS SHALL CONFORM TO A.D.A. REQUIREMENTS



NOTES:
THIS DRAWING IS FOR GUIDANCE ONLY. FOR MORE ACCURATE DETAILS RELATED TO SIGN FABRICATION SPECIFICATIONS REFER TO THE VIRGINIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.

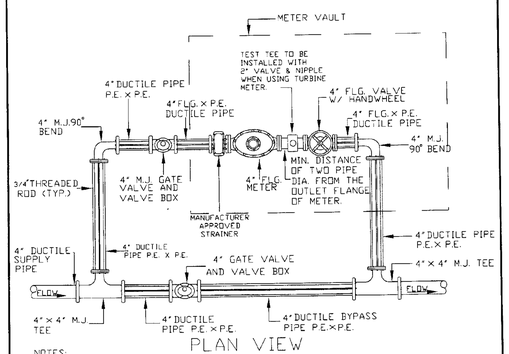
SIGN COLORS: RED LETTERS AND BORDER ON A REFLECTORIZED WHITE BACKGROUND.

LETTERS: TWO (2) INCH "C" SERIES.



FIRE LANE SIGN

NO SCALE



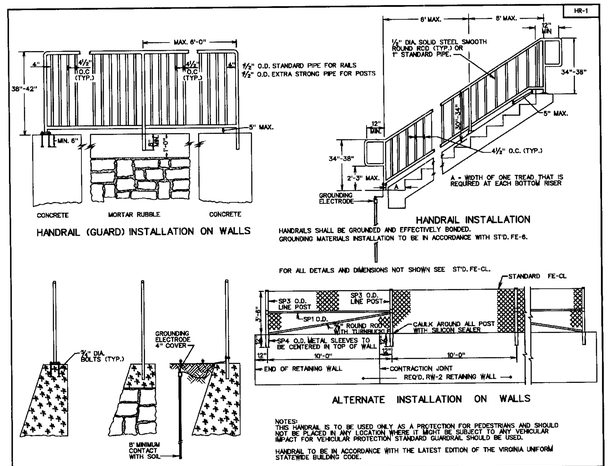
PRINCE GEORGE COUNTY
DEPARTMENT OF PUBLIC UTILITIES

PLAN VIEW

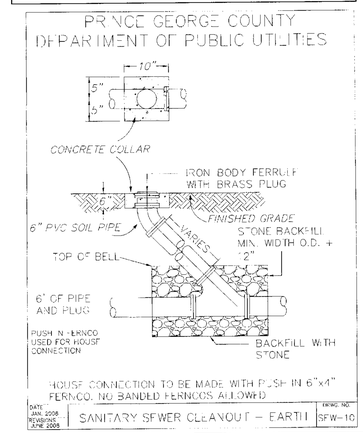
NOTES:

1. IT IS IMPERATIVE THAT THE CONTRACTOR NOT INSTALL THE PIPING UNTIL THE METER AND ASSOCIATED APPURTANCES HAVE BEEN PURCHASED FROM THE UTILITIES DEPARTMENT AND ARE ON THE PROJECT, SO THAT THE CORRECT LENGTH OF PIPE IS INSTALLED ACCORDING TO THIS DETAILED CONFIGURATION.
2. 4" APPROVED RESTRAINT DEVICES OR RODS ARE REQUIRED ON ALL MECHANIAL JOINT (M.J.) CONNECTIONS. ALL FITTINGS SHALL BE M.J. AND APPROVED JOINT RESTRAINT DEVICE AT ALL CONNECTION.
3. FOR DETAILS O VAULT, SEE MET-8.
4. WHEN INSTALLING TURBINE METER, TEST TEE SHALL BE A MINIMUM DISTANCE OF TWO PIPE DIAMETERS FROM THE OUTLET FLANGE OF METER.
5. NO CHECK VALVE OR PRV IS ALLOWED ON THE INLET SIDE OF THE METER.
6. SET MTER REGISTER 18" FROM TOP OF BOX

DATE	4" METER SETTING	DRWG. NO.
JAN. 2008		MET-7
REVISIONS		

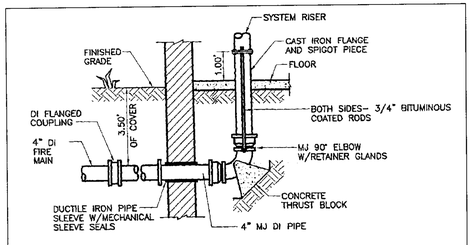


SPECIFICATION REFERENCE	STANDARD HANDRAIL METHOD OF LOCATING AND ERECTING	Rev. 7/04
504	VIRGINIA DEPARTMENT OF TRANSPORTATION	501.05



BUMPER BLOCKER

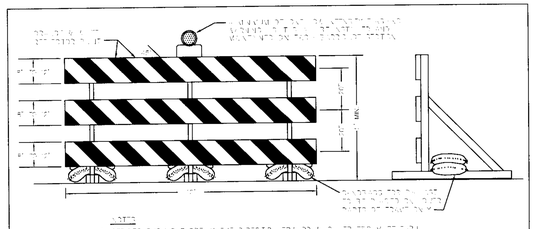
NO SCALE



NOTE: WHERE MAIN PASSES BELOW FOOTING, CLEARANCE SHALL BE PROVIDED TO PREVENT PIPE BREAKAGE DUE TO BUILDING SETTLEMENT.

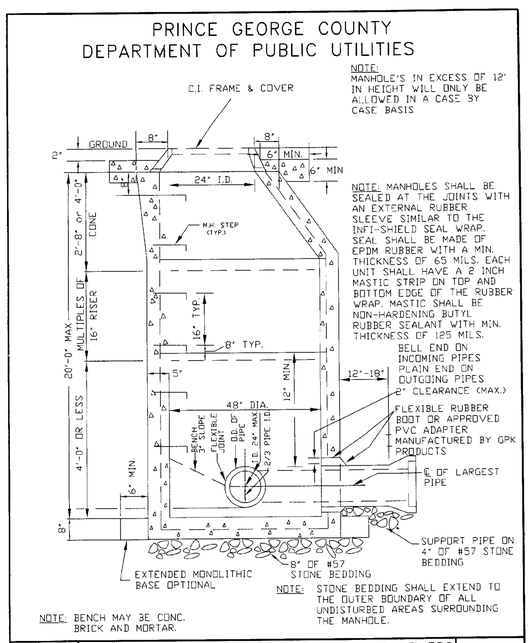
DETAIL – FIRE PROTECTION SYSTEM RISER

NO SCALE



TYPE II BARRICADE

PRINCE GEORGE COUNTY
DEPARTMENT OF PUBLIC UTILITIES



NOTE: MANHOLE'S IN EXCESS OF 12' IN HEIGHT WILL ONLY BE ALLOWED IN A CASE BY CASE BASIS

NOTE: MANHOLES SHALL BE SEALED AT THE JOINTS WITH AN EXTERNAL RUBBER SLEEVE SIMILAR TO THE INFI-SHIELD SEAL WRAP. SEAL SHALL BE MADE OF EPDM RUBBER WITH A MIN. THICKNESS OF 65 MILS. EACH UNIT SHALL HAVE A 2 INCH MASTIC STRIP ON TOP AND BOTTOM EDGE OF THE RUBBER WRAP. MASTIC SHALL BE NON-HARDENING BUTYL RUBBER SEALANT WITH MIN. THICKNESS OF 125 MILS.

BELL END ON INCOMING PIPES PLAIN END ON OUTGOING PIPES

2" CLEARANCE (MAX.)

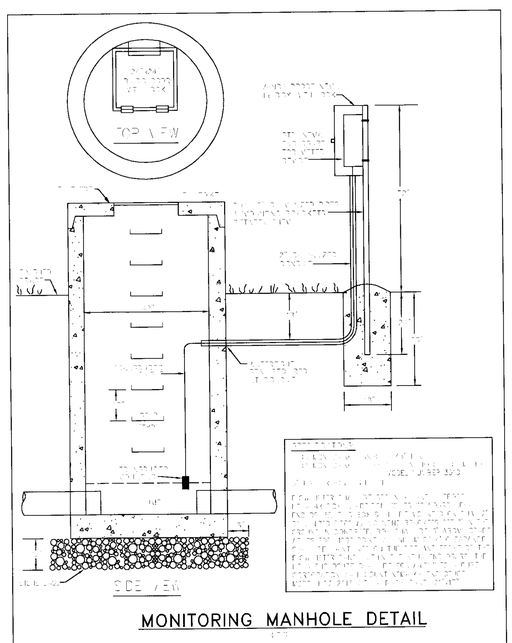
FLEXIBLE RUBBER BOOT OR APPROVED PVC ADAPTER MANUFACTURED BY GPK PRODUCTS

℄ OF LARGEST PIPE

NOTE: BENCH MAY BE CONC. BRICK AND MORTAR.

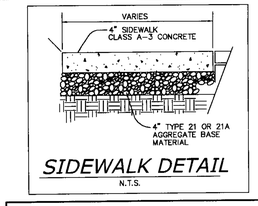
NOTE: STONE BEDDING SHALL EXTEND TO THE OUTER BOUNDARY OF ALL UNDISTURBED AREAS SURROUNDING THE MANHOLE.

DATE JAN. 2008	STANDARD PRECAST CONCRETE MANHOLE SEWERS 8" TO 24" LOCATED OUTSIDE PAVEMENT KEPT AREAS	DRWG. NO.
REVISIONS		MAN-2B ALTERNATE



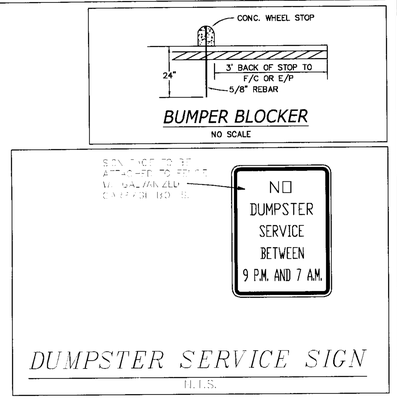
MONITORING MANHOLE DETAIL

NOTE: MONITORING MANHOLE SHALL BE SURROUNDED BY A CHAINLINK FENCE. A GATE SHALL BE INSTALLED IN THE 6' PRIVACY FENCE TO ALLOW ACCESS TO THE MONITORING MANHOLE FROM THE PARKING LOT.



SIDEWALK DETAIL

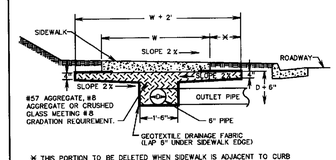
N.T.S.



DUMPSTER SERVICE SIGN

N.T.S.

UD-3



X THIS PORTION TO BE DELETED WHEN SIDEWALK IS ADJACENT TO CURB OR CURB AND GUTTER WITH NO BUFFER STRIP.

NOTES:

1. WHEN THE LONGITUDINAL PIPE CONNECTS DIRECTLY INTO A DRAINAGE STRUCTURE (DROP INLET, MANHOLE, ECT.), NON-PERFORATED OUTLET PIPES ARE NOT REQUIRED.
2. INVERT ELEVATION AT OUTLET END OF OUTLET PIPE TO BE A MINIMUM OF 1'-0" ABOVE INVERT ELEVATION OF RECEIVING DRAINAGE DITCH OR STRUCTURE.
3. ALL CONNECTIONS (ELBOWS, WYES, ETC.) WITHIN PAY LIMITS FOR OUTLET PIPE ARE TO BE OF THE SAME CRUSHING STRENGTH AS THE OUTLET PIPE.
4. OUTLET PIPE ARE TO BE INSTALLED ON 2% MIN. (3% DESIRABLE) GRADE.
5. OUTLET PIPE TO BE SECURELY CONNECTED TO EW-12OR OTHER DRAINAGE STRUCTURE.
6. SIDEWALK UNDERDRAIN IS TO BE USED WHEN THE SIDEWALK LONGITUDINAL GRADIENT IS 3% OR MORE AND WHEN THE UNDERLYING SOIL HAS 34 % OR MORE PASSING THE NO. 200 SIEVE, AND HAS A PI OF 13 OR LESS, AND THE AREA HAS A HISTORY OF SIDEWALK UNDERMINING.
7. SIDEWALK UNDERDRAINS SHOULD BE TIED INTO THE STORM SEWER SYSTEM AT POINTS APPROXIMATELY A CITY BLOCK APART. UNDERDRAIN RUNS MUST NOT EXCEED 1,000 FEET IN LENGTH WITHOUT DISCHARGING INTO THE STORM DRAIN SYSTEM OR INTO AN OPEN DRAIN.
8. WITHIN THE LIMITS OF A COMMERCIAL ENTRANCE, NON-PERFORATED PIPE SHALL BE UTILIZED IN LIEU OF PERFORATED PIPE.

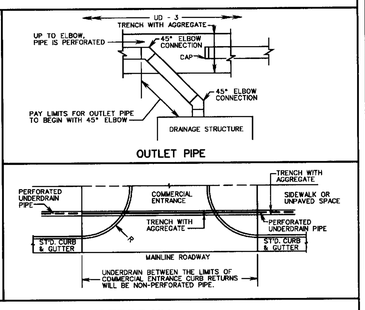
LONGITUDINAL PERFORATED PIPE

TYPE OF PIPE	CRUSHING STRENGTH	
	X W.T.	6" NOMINAL DIAMETER
SMOOTH WALL PVC	0.153	
CORRUGATED PE		AASHTO M-252

NON-PERFORATED PIPE FOR USE UNDER COMMERCIAL ENTRANCES AND FOR OUTLETS

TYPE OF PIPE	CRUSHING STRENGTH	
	X W.T.	6" NOMINAL DIAMETER
SMOOTH WALL PVC	0.153	
SMOOTH WALL PE		70 PSI XXX

X WALL THICKNESS (MIN) - INCHES
XXX TESTED ACCORDING TO ASTM D-2412 AT 5% DEFLECTION.



SPECIFICATION REFERENCE	STANDARD SIDEWALK UNDERDRAIN	REV. 8/07
232 501 701	VIRGINIA DEPARTMENT OF TRANSPORTATION	108.03

COMMONWEALTH OF VIRGINIA
DERRICK A. JOHNSON
Lic. No. 24761
3-20-09
PROFESSIONAL ENGINEER

THIS DRAWING PREPARED AT THE
TRI-CITIES OFFICE
4260 Crossings Blvd | Prince George, VA 23875
TEL 804.458.8685 FAX 804.751.0798 www.timmons.com

Site Development | Residential | Infrastructure | Technology

YOUR VISION ACHIEVED THROUGH OURS.

DATE	REVISION DESCRIPTION
01.15.09	COUNTY COMMENTS
03.02.09	COUNTY COMMENTS

DATE	02 JULY 2008
DRAWN BY	K.HALPAUS
DESIGNED BY	K.HALPAUS
CHECKED BY	D.JOHNSON
SCALE	NONE

TIMMONS GROUP

INDEPENDENCE PLACE APARTMENTS

BLAND DISTRICT - PRINCE GEORGE COUNTY - VIRGINIA

NOTES AND DETAILS

JOB NO.	SHEET NO.
25056	2.1

These plans and associated documents are the exclusive property of TIMMONS GROUP and may not be reproduced in whole or in part and shall not be used for any purpose whatsoever, including, but not limited to construction, bidding, and/or construction staking without the express written consent of TIMMONS GROUP.