MISS UTILITY OF VIRGINIA:

CONTACT MISS UTILITY OF VIRGINIA: 1-800-552-7001 (TOLL FREE)

THE CONTRACTOR SHALL CALL "MISS UTILITY" 48 HOURS PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL STARTING WORK. CONTACT THE ENGINEER IMMEDIATELY IF THE LOCATION OR ELEVATION WITHIN THE EXISTING AND OR RIGHT OF WAY REQUIRED BY THE DEVELOPMENT.

GENERAL NOTES

- DONE BY THE CONTRACTOR AT HIS EXPENSE. THE CONTRACTOR SHALL INSPECT THE CONTROL STAKING MENTIONED ABOVE AND VERIFY BEFORE CONSTRUCTION.
- ALL GRADE STAKES DESTROYED BY THE CONTRACTOR, SHALL BE REPLACED AT HIS EXPENSE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PRESERVE THE EXISTING RIGHT OF WAY STONES. ANY MARKERS DAMAGED SHALL BE REPLACED AT HIS EXPENSE.
- CLEARING AND GRUBBING SHALL BE COMPLETE WITHIN THE RIGHT OF WAYS AS INDICATED ON LAYOUT PLAN.
- ALL DRAINAGE EASEMENTS TO BE CLEARED, GRUBBED, AND GRADED TO CONTAIN WATER FROM PIPE CULVERTS AND TO EXTEND TO A NATURAL WATERCOURSE.
- EXCESS EXCAVATION TO BE DISPOSED OF AS DIRECTED BY THE OWNER.
- ALL FILLETS AT INTERSECTIONS TO HAVE 35' RADII UNLESS OTHERWISE NOTED.
- GRADE LINES ON PROFILES DENOTE FINISHED GRADE OF CENTER LINE OF ROAD.
- BASE MUST BE APPROVED BY VDOT FOR DEPTH, TEMPLATE, AND COMPACTION BEFORE SURFACE TREATMENT IS APPLIED.
- PERMIT TO TIE INTO EXISTING ROADS, SHALL BE OBTAINED FROM RESIDENT ENGINEER PRIOR TO ROAD CONSTRUCTION
- 1. ALL UTILITIES TO BE IN PLACE, TESTED AND ACCEPTED PRIOR TO LAYING BASE MATERIAL. TO AVOID TEAR—OUT, UTILITIES

SEWER AND WATER NOTES

- ALL MATERIALS FOR SEWER AND WATER SYSTEMS SHOWN SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST APPLICABLE SPECIFICATION OF PRINCE GEORGE COUNTY.
- ALL WORK SHALL BE SUBJECT TO INSPECTION BY UTILITY DEPARTMENT OFFICIALS. THE CONTRACTOR SHALL
- MINIMUM CLEAR COVER FOR ALL WATER PIPE SHALL BE 3.5 FEET.
- THE UTILITY OWNER IS RESPONSIBLE FOR OBTAINING ANY HIGHWAY PERMITS AND FOR SENDING A COPY TO THE COUNTY PRIOR TO START OF CONSTRUCTION.
- ANY LOT WITH LESS THAN 50 FEET OF FRONTAGE SHALL HAVE FRONT CORNERS OR END OF 6' CONNECTION STAKED PRIOR TO CONSTRUCTION OF A 6' SEWER SERVICE.
- SEWER PIPE SHALL BE PVC. ALL SEWER JOINTS SHALL BE CLASS A. BEDDING SHALL BE CLASS B MINIMUM; BEDDING SHALL BE AS SHOWN IN DETAIL ON SHEET 2.
- SEWER GRADES ARE BASED ON ARIAL PHOTOGRAPHY BY LOUISA AERIAL SURVEYS USING NAVD88 DATUM
- 8. CONTRACTOR SHALL INSTALL 6" SEWER SERVICE CONNECTIONS TO ALL LOTS (R/W LINE OR EDGE OF EASEMENT)
- 7. ALL WATER SERVICES ARE TO BE PVC ROLL PLASTIC, CTS.
- THE CONTRACTOR WILL INSTALL ALL WATER CONNECTIONS AND METER BOXES.
- THE EXACT MANHOLE TOP SHALL BE ON THE SAME GRADE AS THE FINISHED ROAD GRADE AND AS NOTED ON
- SEWER CUT SHEETS. THE USE OF HEIGHT ADJUSTMENT RINGS IS PROHIBITED.
- IT SHALL BE REMOVED AND ACCEPTABLE MATERIAL USED FOR BACKFILLING THE TRENCH
- 14. THE ENGINEER WILL CERTIFY THAT THE ROADS ARE WITHIN 6" OF SUBGRADE BEFORE WATERLINE CONSTRUCTION CAN BEGIN.
- VDOT 48 HOURS IN ADVANCE WHEN INSTALLATION BEGINS SO THAT DENSITY CAN BE TESTED (95% @ OPTIMUM MOISTURE +20%).COMPACTION TESTING SHALL BE DONE BY THE CONTRACTOR'S ENGINEER.
- OF ANY UTILITY NOT SHOWN ON THE PLAN. TO MISS THE UTILITY CALL "MISS UTILITY" OF CENTRAL VIRGINIA: 1-800-552-7001 (TOLL FREE).
- 7. THE INSTALLATION OF BACK FLOW DEVICE IS REQUIRED IN ALL HOUSES WHERE THE FINISHED FLOOR ELEVATION IS LOWER THAN UPGRADE MANHOLES. THIS DEVICE WILL BE INSPECTED BY THE COUNTY BUILDING INSPECTOR.
- 18. INDIVIDUAL WATER SERVICES TO BE 3/4".
- 9. ALL WATERLINE VALVES MUST BE LOCATED ON THE TEE OR CROSS WHEN APPLICABLE. O. ALL MANHOLES IN UTILITY EASEMENTS ARE TO HAVE THE CONCRETE SECTION EXTENDED ONE FOOT ABOVE THE GROUND.
- A SMOOTH TRANSITION OF DROP MANHOLE MUST BE PROVIDED FOR EACH LATERAL OR SANITARY SEWER ENTERING A SANITARY MANHOLE.
- 22. ALL FIRE HYDRANTS SHALL BE O.S.H.A. RED IN COLOR.
- SYSTEM WILL BE SUPPLIED TO THE UTILITY DEPARTMENT WITH THE WATER METERS. 24. FIRE HYDRANTS ARE TO BE MUELLER TYPE BE INSTALLED USING TEES.
- 5. ALL SANITARY LATERALS THAT ARE LOCATED OUTSIDE OF THE RIGHT OF WAY ARE TO HAVE THE CLEANOUT INSTALLED TO THE EDGE OF THE EASEMENT. A CARSONITE MARKER SHALL ALSO BE INSTALLED TO INDICATE
- IT SHALL BE SUPPLIED WITH 4 CODED KEYS THAT WILL WORK WITH THEALL NOZZLE CAPS. THE CODED LOCK/KEY
- 27. ALL HYDRANTS AND BENDS SHALL BE EQUIPPED WITH MEGA LUGS, KICKERS AND THRUST BLOCKS.
- 80 PSI. FOR SECTION FIVE PRESSURE REDUCING VALVES WILL NOT BE USED ON INDIVIDUAL LOTS.
- SPECIFICATIONS. THESE CLEANOUTS SHOULD BE INSTALLED AT THE EDGE OF THE RIGHT OF WAY.
- LITILITY INSPECTOR SHALL BE CONTACTED BEFORE INDIVIDUAL SERVICE CONNECTIONS ARE COVERED.

- OF A MINIMUM OF 11GPM AT 150' OF HEAD.
- 77. ALL WATER LINE VALVES LOCATED OUTSIDE THE PAVEMENT NEED TO BE ENCLOSED IN A 12"X12"X6" CONCRETE
- 38. A GEOTECHNICAL ENGINEER WILL BE REQUIRED TO TEST ALL UTILITY TRENCHES.

CERTIFICATION

. WE HEREBY CERTIFY THAT THE LOT LINES, LOT NUMBERS, BLOCK NUMBERS AND THE SHOWN ON THESE PLANS ARE IDENTICAL TO THOSE SHOWN ON THE OFFICIAL RECORDED PLAT, AND NO CHANGES WILL BE MADE WITHOUT PRIOR APPROVAL FROM THE UTILITY DEPARTMENT. IF ANY CHANGES ARE APPROVED, REVISED WATER AND/OR SEWER PLANS WILL BE SUBMITTED WITHIN 48 HOURS AFTER APPROVAL.

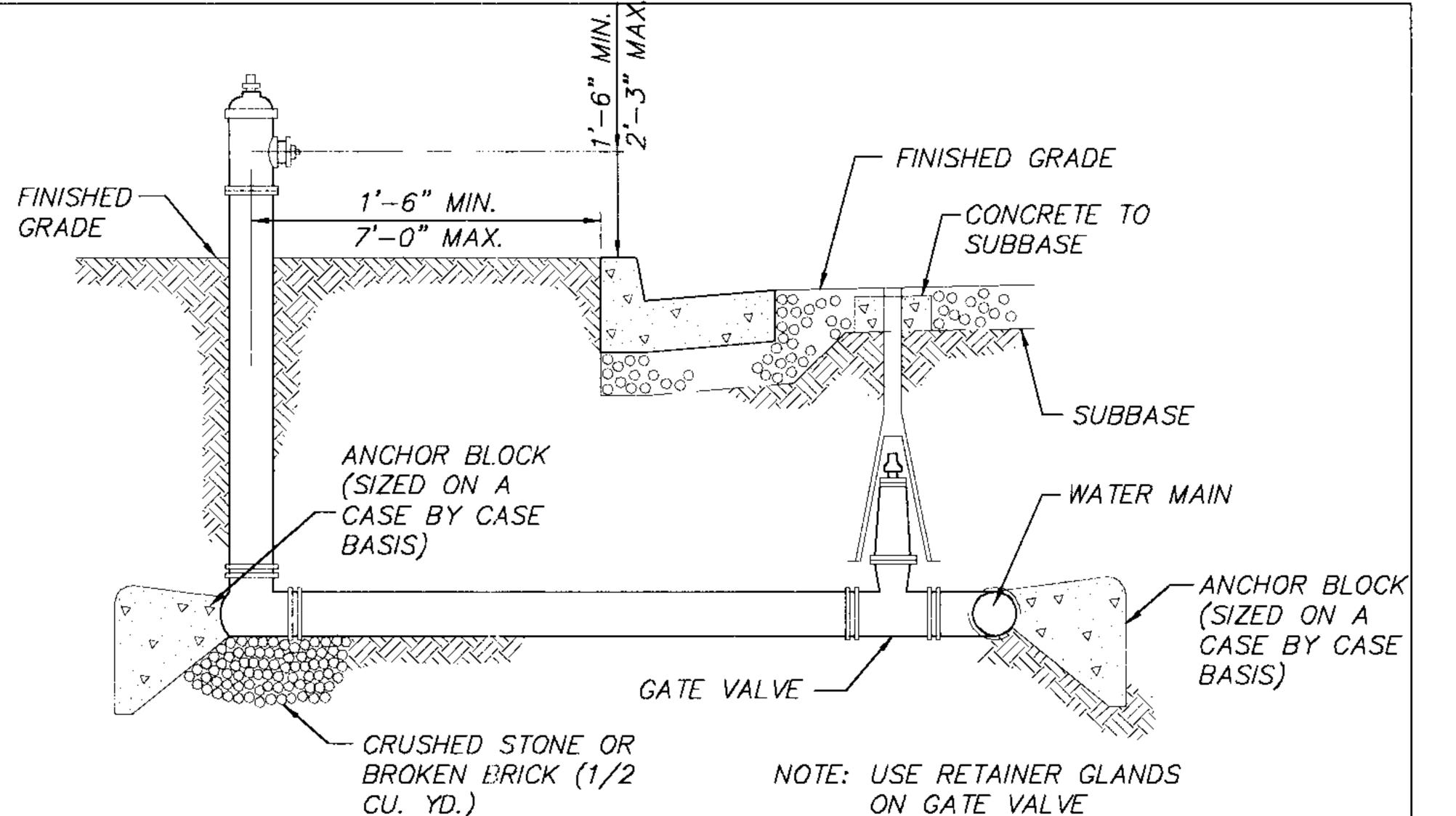
STORM SEWER SCHEDULE

- . PIPE LENGTHS ARE MEASURED FROM CENTER TO CENTER OF STRUCTURE
- WITH A HEIGHT GREATER THAN OR EQUAL TO 4.0 FT. 3. INSTALL GEOTEXTILE FILTER FABRIC AROUND THE WEEP HOLE FOR ALL SAG
- DROP INLETS (DI-3CS). 4. VDOT STD. SL-1 SAFETY SLABS ARE REQUIRED FOR ALL STRUCTURES WITH A HEIGHT GREATER THAN 12.0 FT.
 - DI-3C; L=10', TOP = 30.10, H = 4.5' 32.00 L.F. 15" CLASS III RCP @ 0.94% INV. IN = 25.60, INV. OUT = 25.30 DI-3C; L=8'; TOP = 30.10, H = 4.9'79.60 L.F. 15" CLASS III RCP @ 0.99% INV. IN = 25.20, INV. OUT = 24.41 DI-3B; L=8', TOP = 31.17, H = 4.5'32.00 L.F. 15" CLASS III RCP @ 3.31% INV. IN = 26.67, INV. OUT = 25.61
- DI-3B; L=8', TOP = 31.17, H = 6.86'100.00 L.F. 15" CLASS III RCP @ 10.73% INV. IN = 24.31, INV. OUT = 13.58 MH-1; TOP = 25.36, H = 15.18
- 60.00 L.F. 18" CLASS III RCP @ 1.32% INV. IN = 10.18, INV. OUT = 9.39 DI-3C; L=6', TOP=66.60, H=4.50' 32.00 L.F. 15" CLASS III RCP @ 1.09% INV. IN = 62.10, INV. OUT = 61.75
- DI-3B, L=8', TOP = 66.79, H = 4.50'28.01 L.F. 15" CLASS III RCP @ 1.93% INV. IN = 62.29, INV. OUT = 61.75 DI-3C; L=10', TOP = 66.60, H = 4.95', W/IS-1
- 56.17 L.F. 15" CLASS III RCP @ 1.51% INV. IN = 61.65, INV. OUT = 60.80 DI-3B; L=6', TOP = 67.01, H = 6.46', W/IS-164.55 L.F. 18" CLASS III RCP @ 0.85% INV. IN = 60.55, INV. OUT = 60.00 263.29 L.F. 15" CLASS III RCP @ 8.70% INV. IN = 90.66, INV. OUT = 67.76
- DI-3BB, L=8', TOP = 72.51, H = 12.61', W/IS-1 86.18 L.F. 18" CLASS III RCP @ 2.78% INV. IN = 59.90, INV. OUT = 57.50
- DI-3BB; L=6', TOP = 66.68, H = 9.28', W/IS-1201.49 L.F. 18" CLASS III RCP @ 3.37% INV. IN = 57.40, INV. OUT = 50.60 DI-3B, L=8', TOP=55.10, H=4.60', W/IS-1
- DI-3B, L=8', TOP=42.20, H=7.80', W/IS-1
- 46.66 L.F. 18" CLASS III RCP @ 8.40% INV. IN = 37.50, INV. OUT = 33.58 DI-3C; L=10', TOP=40.58', H= 7.1', W/IS-1 76.00 L.F. 18" CLASS III RCP @ 12.80% INV. IN = 33.48, INV. OUT = 23.75
- MH-1, TOP = 35.05, H = 12.30, W/IS-140.00 L.F. 30'' CLASS III RCP 0.50% INV. IN = 22.75, INV. OUT = 22.55
- DI-3B; L=6', TOP = 49.93, H = 4.50' 44.00 L.F. 15" CLASS III RCP @ 2.84% INV. IN = 45.43, INV. OUT = 44.18 DI-3B; L=10', TOP = 48.64, H = 4.56'119.00 L.F. 15" CLASS III RCP @ 1.98% INV. IN = 44.08, INV. OUT = 41.72
- DI-3B; L=6', TOP = 46.39, H = 4.50'DI-3C; L=8', TOP = 46.31, H = 4.69', W/IS-1
- 32.00 L.F. 15" CLASS III RCP @ 3.50% INV. IN = 41.62, INV. OUT = 40.50 DI-3CC, L=6', TOP=46.31, H=13.81', W/IS-1104.00 L.F. 36" CLASS IV RCP @ 1.88% INV. IN = 32.29, INV. OUT = 30.34, W/ EW-1
- DI-3C; L=6, TOP = 49.00, H = 4.50116.00 L.F. 15" CLASS ||| RCP @ 12.41% | INV. IN = 44.50, INV. OUT = 30.10 MH-1, TOP = 32.00, H = 7.40, W/IS-174.22 L.F. 15" CLASS III RCP @ 14.00% INV. IN = 27.60, INV. OUT = 17.21
- DI-3C, L=12', TOP=52.02, H=4.30'36.51 L.F. 15" CLASS III RCP @ 1.34% INV. IN = 52.70, INV. OUT = 52.21

DI-3B; L=10', TOP = 66.50, H = 5.50'

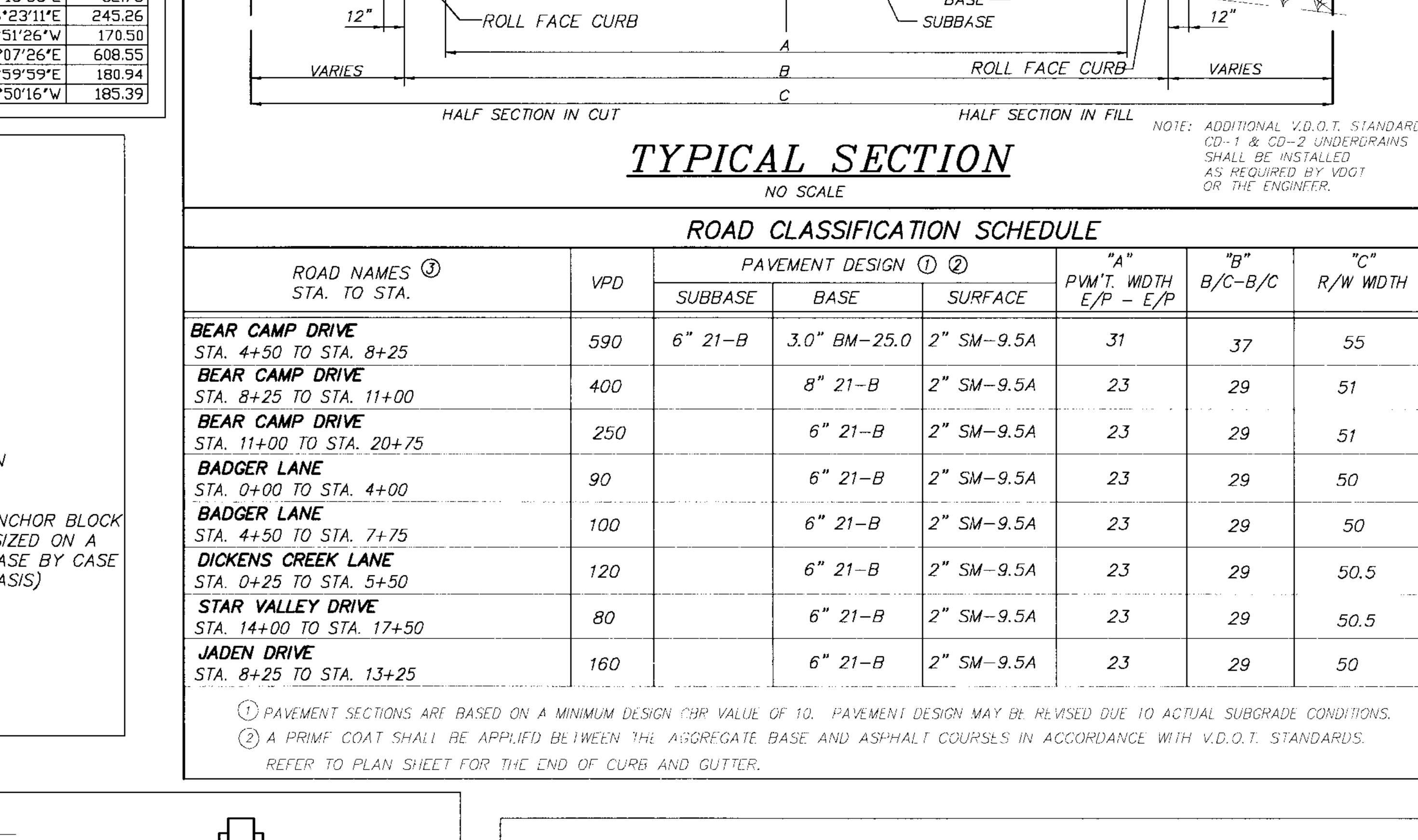
- MH-1, TOP = 57.84, H = 5.73', W/IS-165.58 L.F. 15" CLASS III RCP @ 9.00% INV. IN = 52.11, INV. OUT = 46.21 DI-3B, L=6', TOP=52.24, H=6.13',
- DI-3B, L=10', TOP=40.61, H=6.38'
- DI-3C; L=8', TOP= 33.78, H= 6.78', W/IS-1 132.00 L.F. 15" CLASS III RCP @ 7.42% INV. IN = 27.00, INV. OUT = 17.21
- MH-1, TOP = 22.14, H = 6.43, W/IS-1

ROAD C/L DATALINE TABLE BEARING N54*06′58*1 N57*44′26″V N80°30′48″ CURVE TABLE



FIRE HYDRANT DETAIL

PLATE NO. 8



*WHEN ROLL FACE CURB & GUTTER IS USED,

GRAVEL FROM WASHING INTO ROADWAY.

-ROLL FACE CURB

* WHEN ROLL FACE CURB & GUTTER

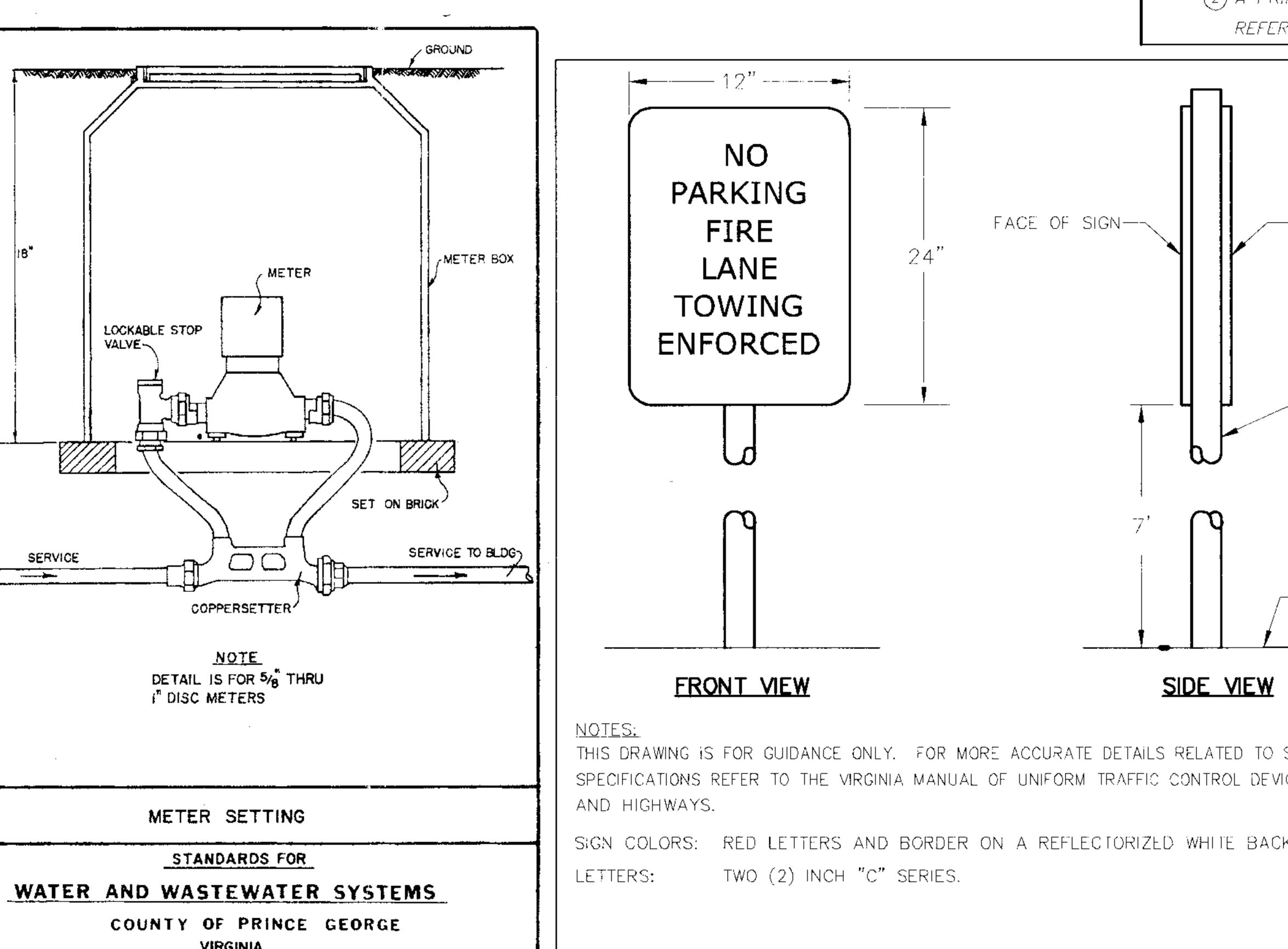
GRADED TO PRECLUDE GRAVEL FROM

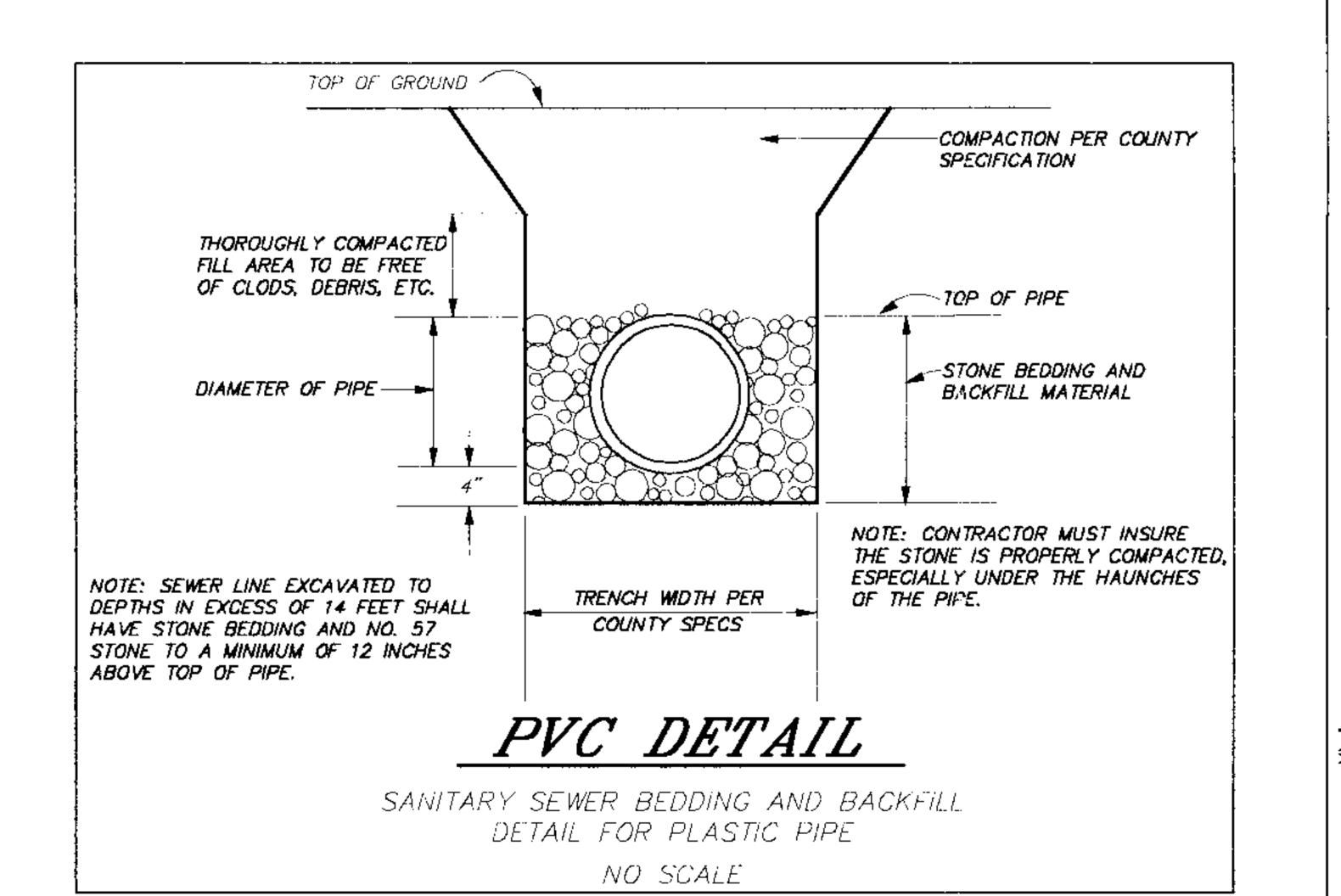
IS USED, DRIVEWAYS SHALL BE

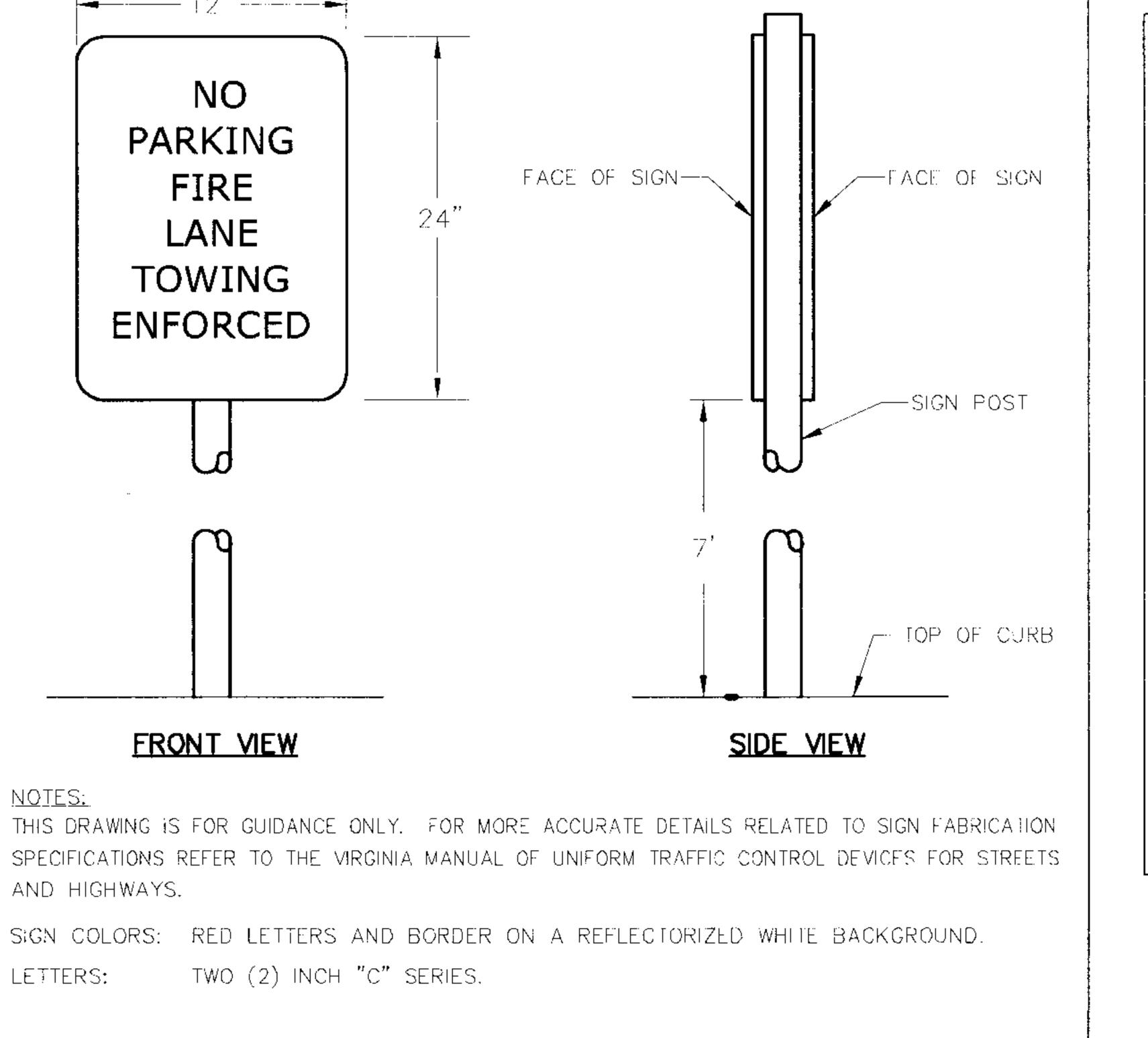
WASHING INTO ROADWAY.

HALF SECTION IN CUT

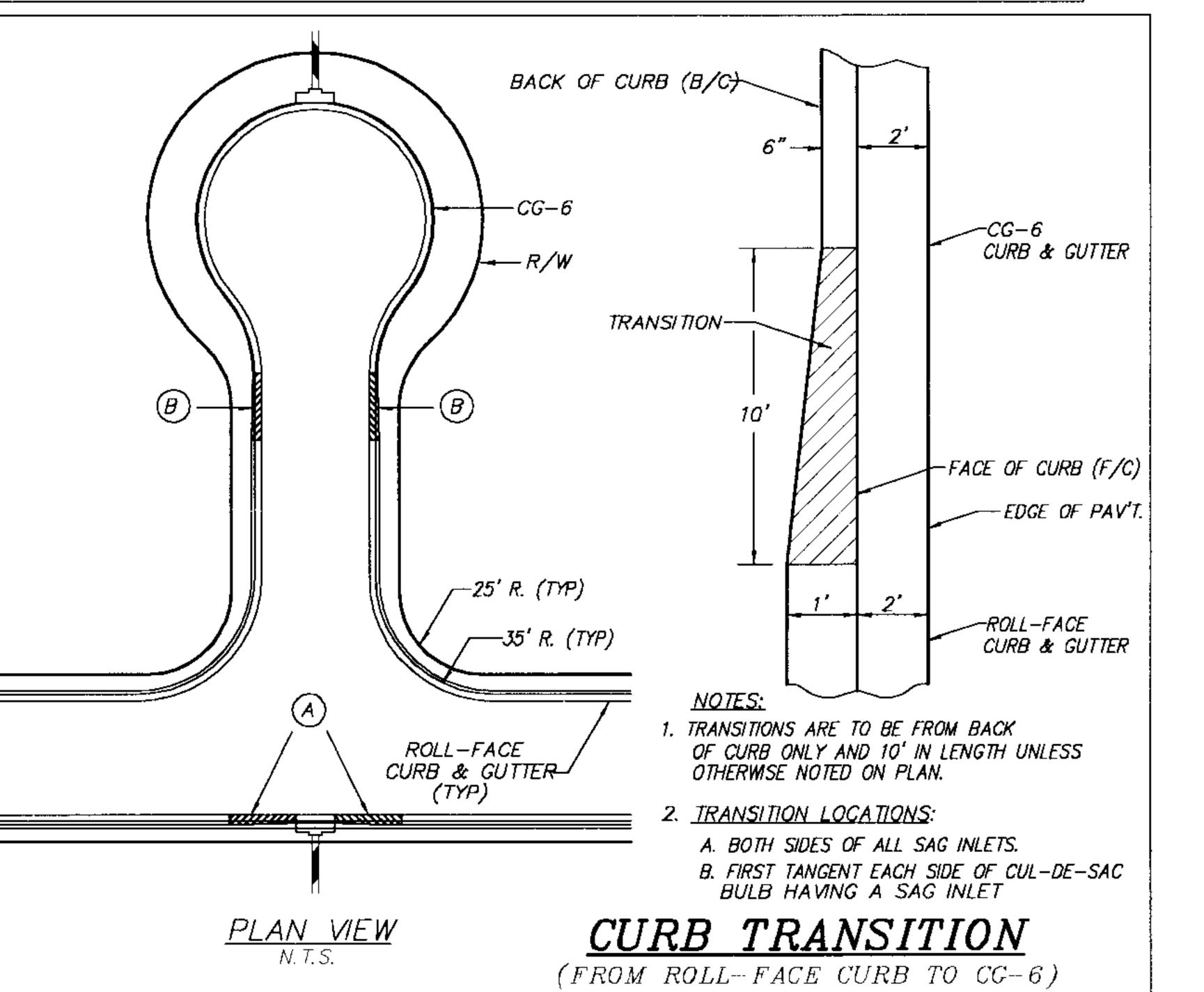
DRIVEWAYS SHALL BE GRADED TO PRECLUDE

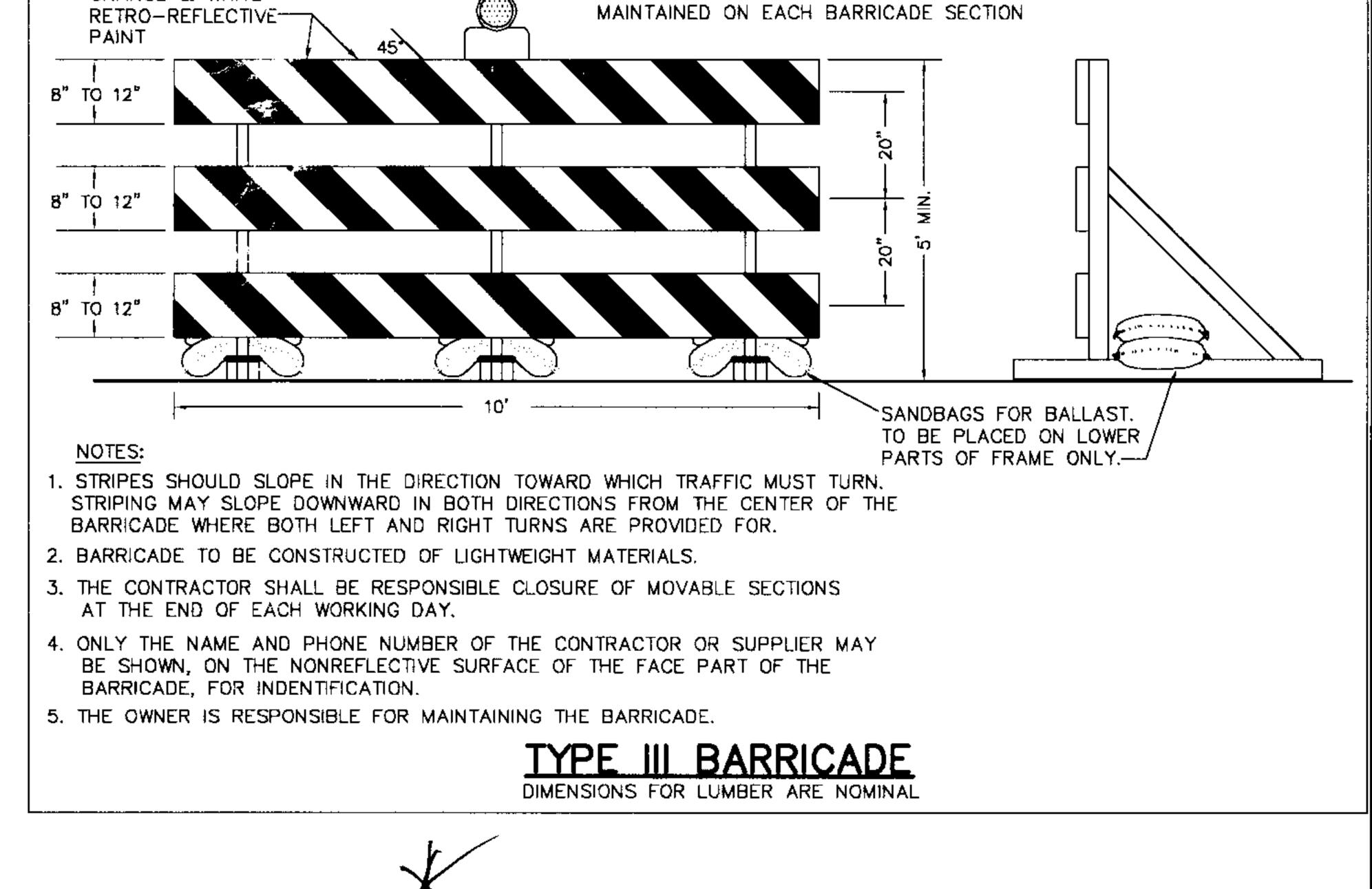






FIRE LANE SIGN





ROLL FACE CURB

NOTE: ADDITIONAL V.D.O.T. STANDAR.
CD-1 & CD-2 UNDERDRAINS
SHALL BE INSTALLED
AS REQUIRED BY VDOT
OR THE ENGINEER.

HALF SECTION IN FILL

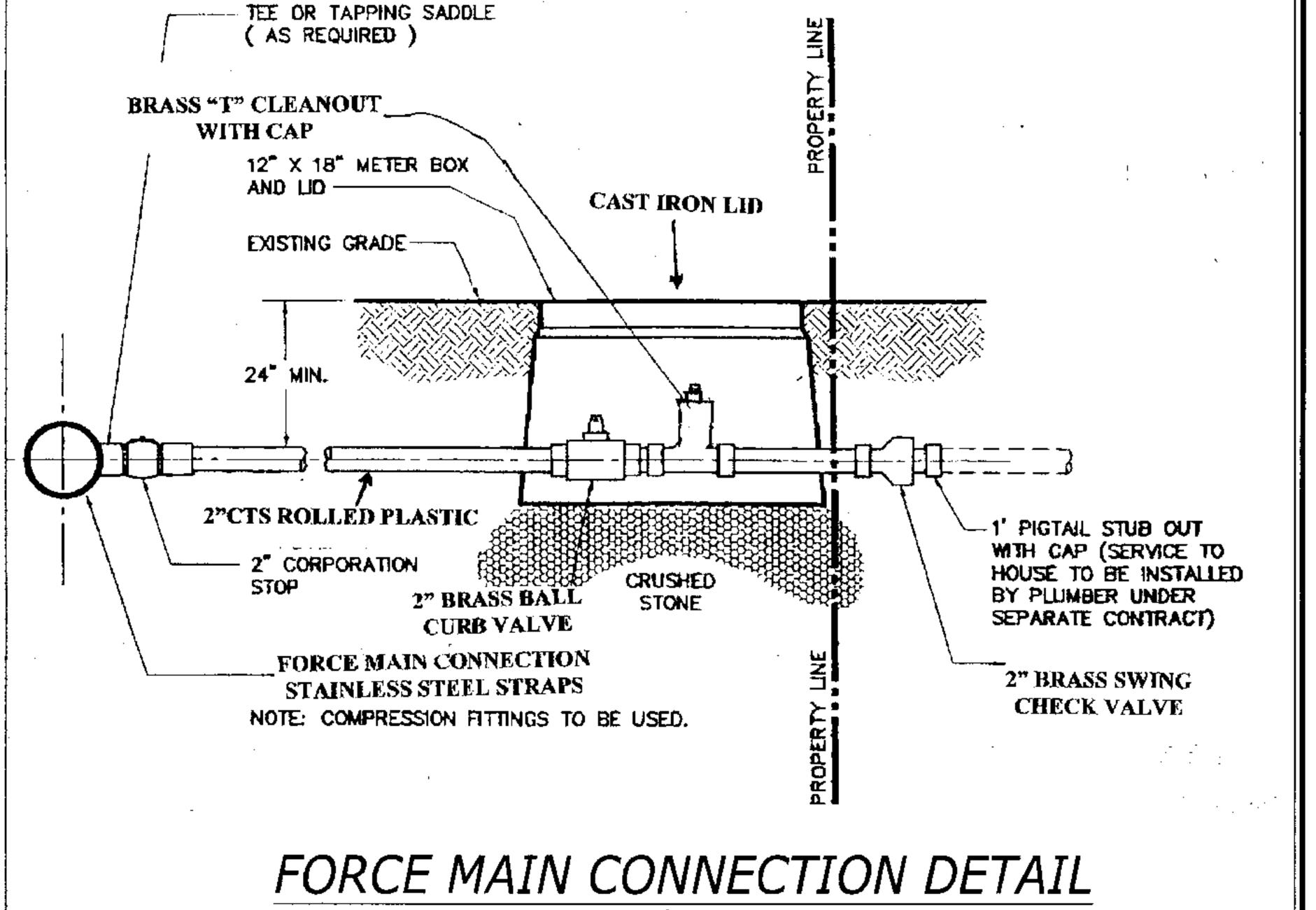
W/ SIDEWALK

TYPICAL SECTION

POINT OF FINISHED

-SURFACE

PRINCE GEORGE COUNTY STANDARD DETAIL FIR-LTO BE USED FOR VAULT DETAIL FOR PRESSURE REDUCING VALVES



DRAWN BY K. HALPAUS DESIGNED BY K. HALPAUS CHECKED BY D. JOHNSON SCALE

DERRICK A. JOHNSON

Lic. No. 24761

251/ SHEET NO.

C1.1