## GENERAL NOTES

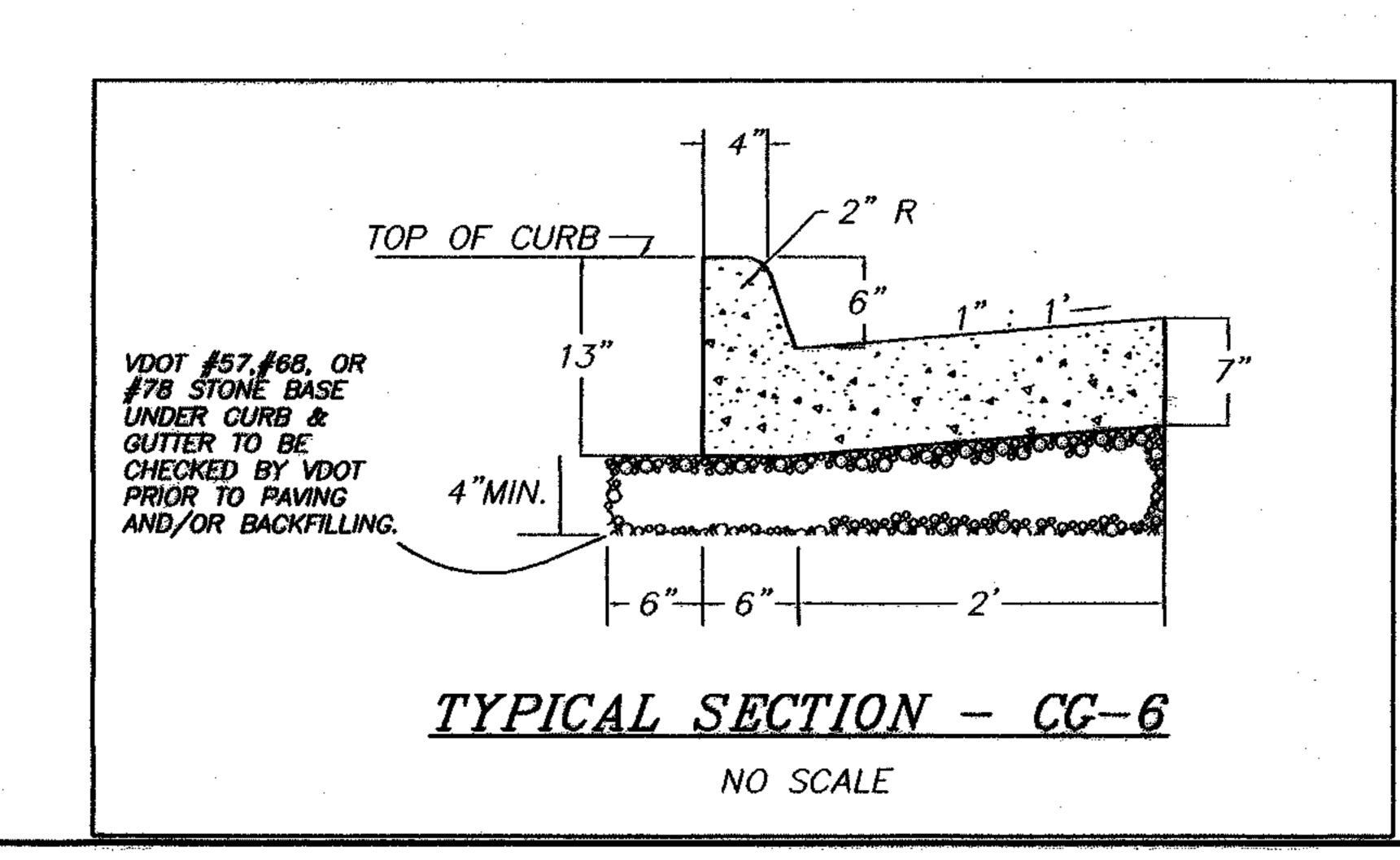
- POURING, CURING, FORMS, WORKMANSHIP, ETC. OF ALL CONCRETE USED ON THIS PROJECT
- . STABILIZED BASE COURSE MATERIAL. . MATERIALS AND INSTALLATION OF ALL PIPE CULVERTS.
- VDOT AND COUNTY APPROVAL OF SUBDIVISION ROAD PLANS DOES NOT PRECLUDE THE RIGHT TO ADDITIONAL FACILITIES SUCH AS SEEDING, PAVING, SILT DAMS, ETC. AS MAY BE DEEMED NECESSARY BY EITHER AUTHORITY PRIOR TO THE THE ACCEPTANCE OF SUCH ROADS IN ORDER TO LIMIT SILTATION AND POLLUTION OF NEARBY LAKES, PONDS, STREAMS AND ADJACENT PROPERTY.
- . THE VDOT APPROVAL OF THESE PLANS WILL EXPIRE THREE (3) YEARS FROM DATE OF APPROVAL.
- OWNER WILL FURNISH SURVEY CONTROL OFF SET HUBS FOR ALL ROADS AND EASEMENTS FOR ALIGNMENT AND GRADE. DONE BY THE CONTRACTOR AT HIS EXPENSE. THE CONTRACTOR SHALL INSPECT THE CONTROL STAKING MENTIONED ABOVE AND VERIFY BEFORE CONSTRUCTION.
- 5. ALL GRADE STAKES DESTROYED BY THE CONTRACTOR, SHALL BE REPLACED AT HIS EXPENSE.
- 6. 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.
- 9. EXCESS EXCAVATION TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER.
- 10. ALL FILLETS AT INTERSECTIONS TO HAVE 35' RADII UNLESS OTHERWISE NOTED.
- 1. GRADE LINES ON PROFILES DENOTE FINISHED GRADE OF CENTER LINE OF ROAD.
- 2. BASE MUST BE APPROVED BY VDOT FOR DEPTH, TEMPLATE, AND COMPACTION BEFORE SURFACE TREATMENT IS APPLIED.
- 13. SLOPE EASEMENTS FOR FILL SLOPES ARE REQUIRED WHERE SLOPES EXCEED PROPOSED RIGHT-OF-WAY LIMITS SHOWN.

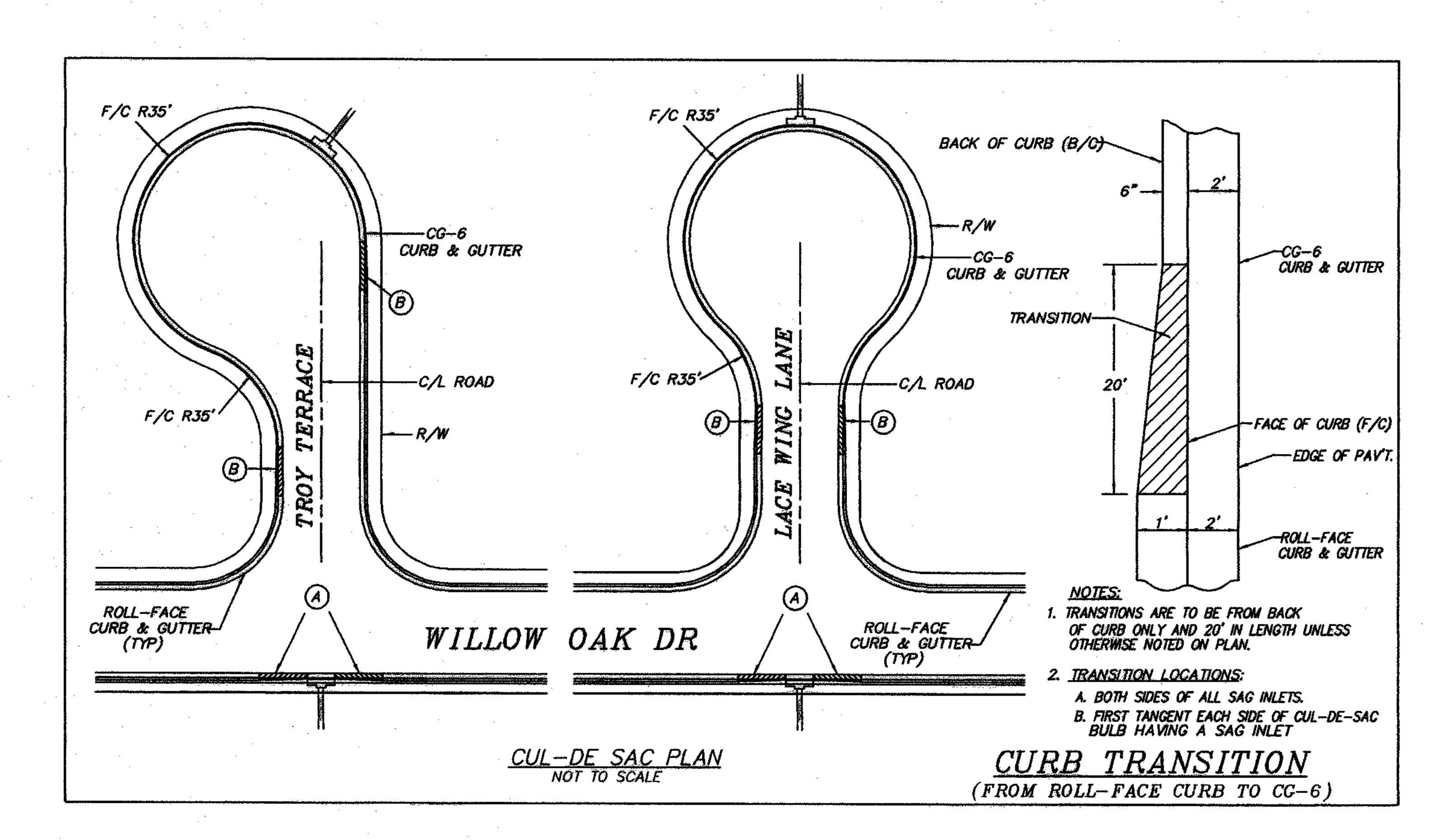
14. PERMIT TO TIE INTO EXISTING ROADS, SHALL BE OBTAINED FROM RESIDENT ENGINEER PRIOR TO ROAD CONSTRUCTION.

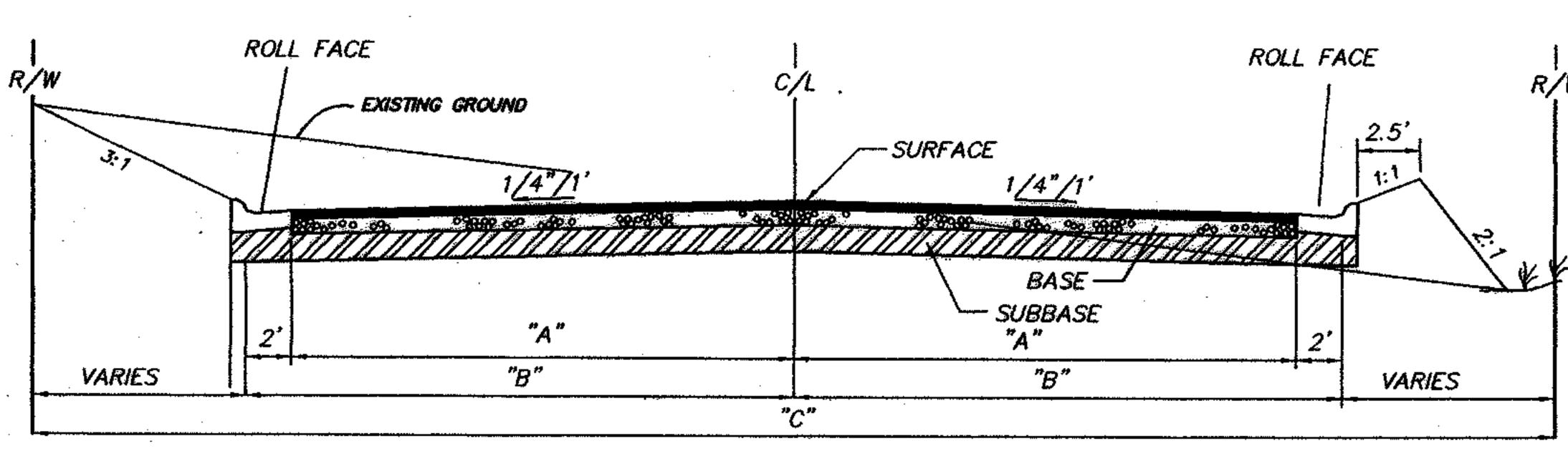
- 15. ALL APPROACH GUTTERS TO SAG INLETS SHALL MAINTAIN A MINIMUM SLOPE OF 0.004 ft/ft.
- 16. PRIME COAT MUST BE APPLIED TO ROAD BASE AGGREGATE PRIOR TO APPLICATION OF ASPHALT SURFACE (PRIME COAT RC-250, 0.3 GALLONS PER SQUARE YARD).
- 17. ALL UTILITIES TO BE IN PLACE PRIOR TO LAYING BASE MATERIAL.
- CONSTRUCTION PLANS APPROVED BY VDOT OR SUCH STRUCTURES ARE COVERED BY A VDOT LAND USE PERMIT (OR BY A LETTER OF INTENT FROM THE RESIDENT ENGINEER TO ISSUE SAID PERMIT AT THE TIME OF STATE ACCEPTANCE).

## 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 BE RESPONSIBLE FOR NOTIFICATION OF APPROPRIATE COUNTY OFFICIALS 48 HOURS PRIOR TO START OF WORK.
- MINIMUM CLEAR COVER FOR ALL WATER PIPE SHALL BE 3.5 FEET.
- . THE UTILITY CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY HIGHWAY PERMITS AND SEND 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 OF 6.
- SEWER GRADES ARE BASED ON U.S.C. AND G. S. DATUM.
- 8. CONTRACTOR SHALL INSTALL 6" SEWER SERVICE CONNECTIONS TO ALL LOTS (R/W LINE OR EDGE OF EASEMENT)
- 9. ALL WATER SERVICES ARE TO BE COPPER, TYPE K, DRAWN TUBING.
- 10. THE CONTRACTOR WILL INSTALL ALL WATER CONNECTIONS AND METER BOXES.
- 11. FIRE HYDRANT PUMPER CONNECTIONS SHALL FACE IN THE DIRECTION OF THE ARROW.
- 12. THE EXACT MANHOLE TOP SHALL BE ON THE SAME GRADE AS THE FINISHED ROAD GRADE AND AS NOTED ON SEWER CUT SHEETS
- 13. BACKFILL FOR ALL UTILITIES WITHIN PROPOSED SUBDIVISION STREETS SHALL BE PLACED GENERALLY IN ACCORDANCE WITH PRINCE GEORGE COUNTY SPECIFICATIONS, AND THE FOLLOWING CRITERIA: (1.) NO TRENCH SHALL BE BACKFILLED UNTIL AUTHORIZED BY THE COUNTY. MATERIALS USED FOR BACKFILL FROM THE BOTTOM OF THE TRENCH TO 12" (TWELVE INCHES) ABOVE THE PIPE SHALL BE SELECT MATERIAL, FREE FROM FROST, LARGE CLODS, STONES AND DEBRIS, AND SHALL BE THOROUGHLY AND CAREFULLY COMPACTED. 2. BACKFILL SHALL BE COMPACTED BY MECHANICAL TAMPING THROUGHOUT THE DEPTH OF THE TRENCH TO INSURE A SUITABLE SUBBASE, ACCEPTABLE TO THE ROAD ENGINEER, IF THE MATERIAL IS TAKEN FROM THE DITCH IS NOT SUITABLE FOR BACKFILLING 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.
- 5. FOR SEWER AND WATER INSTALLATION WITHIN EXISTING VOOT R/W; UTILITY CONTRACTORS MUST NOTIFY VOOT WHEN INSTALLATION BEGINS SO THAT DENSITY CAN BE TESTED (95% **©** OPTIMUM MOISTURE +20%).
- AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY, IF: LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLAN, OR IF: THERE APPEARS TO BE A CONFLICT, AND UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLAN. TO MISS THE UTILITY CALL "MISS UTILITY" OF CENTRAL VIRGINIA: 1-800-552-7001 (TOLL FREE).
- 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".
- 19. ALL WATERLINE VALVES MUST BE LOCATED ON THE TEE OR CROSS WHEN APPLICABLE.
- 20. ALL MANHOLES IN UTILITY EASEMENTS ARE TO HAVE THE CONGRETE SECTION EXTENDED ONE FOOT ABOVE THE GROUND.
- 1. USE OF HEIGHT ADJUSTMENT RINGS WILL NOT BE ALLOWED EXCEPT UNDER PAVED SURFACES WHERE A MAXIMUM OF ONE RING IS PERMITTED.
- 22. A SMOOTH TRANSITION OF DROP MANHOLE MUST BE PROVIDED FOR EACH LATERAL OR SANITARY SEWER ENTERING A SANITARY MANHOLE.
- 23. ALL FIRE HYDRANTS SHALL BE O.S.H.A. RED IN COLOR.
- 24. A "W" AND "S" SHALL BE STAMPED ON THE CURB WHOLE THE CONCRETE IS STILL WET. THESE MARKS SHALL INDICATE THE ACTUAL LOCATION OF THE WATER AND SEWER CONNECTIONS FOR EACH LOT.
- 25. METER BOXES PROVIDED SHALL BE CAST IRON 12"x18"x24" HIGH WITH CAST IRON LIDS. THE METER ASSEMBLIES ARE TO BE SUPPLIED
- WITH NEPTUNE PROREAD ARB SYSTEMS ATTACHED TO THE LID. METERS ARE TO BE COMPATIBLE WITH THE PROPOSED SYSTEM. 26. FIRE HYDRANTS ARE TO BE MUELLER TYPE BE INSTALLED USING TEES.
- 27. 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 THEIR LOCATION.
- '. BE SUPPLIED WITH 4 CODED KEYS THAT WILL WORK WITH THE THE CODED LOCK/KEY COMBINATION. KEYS SHALL BE SENT Y TO THE COUNTY ENGINEER AT PRINCE GEORGE COUNTY.
- 29. ALL HYDRANTS AND BENDS SHALL BE EQUIPPED WITH MEGA LUGS.





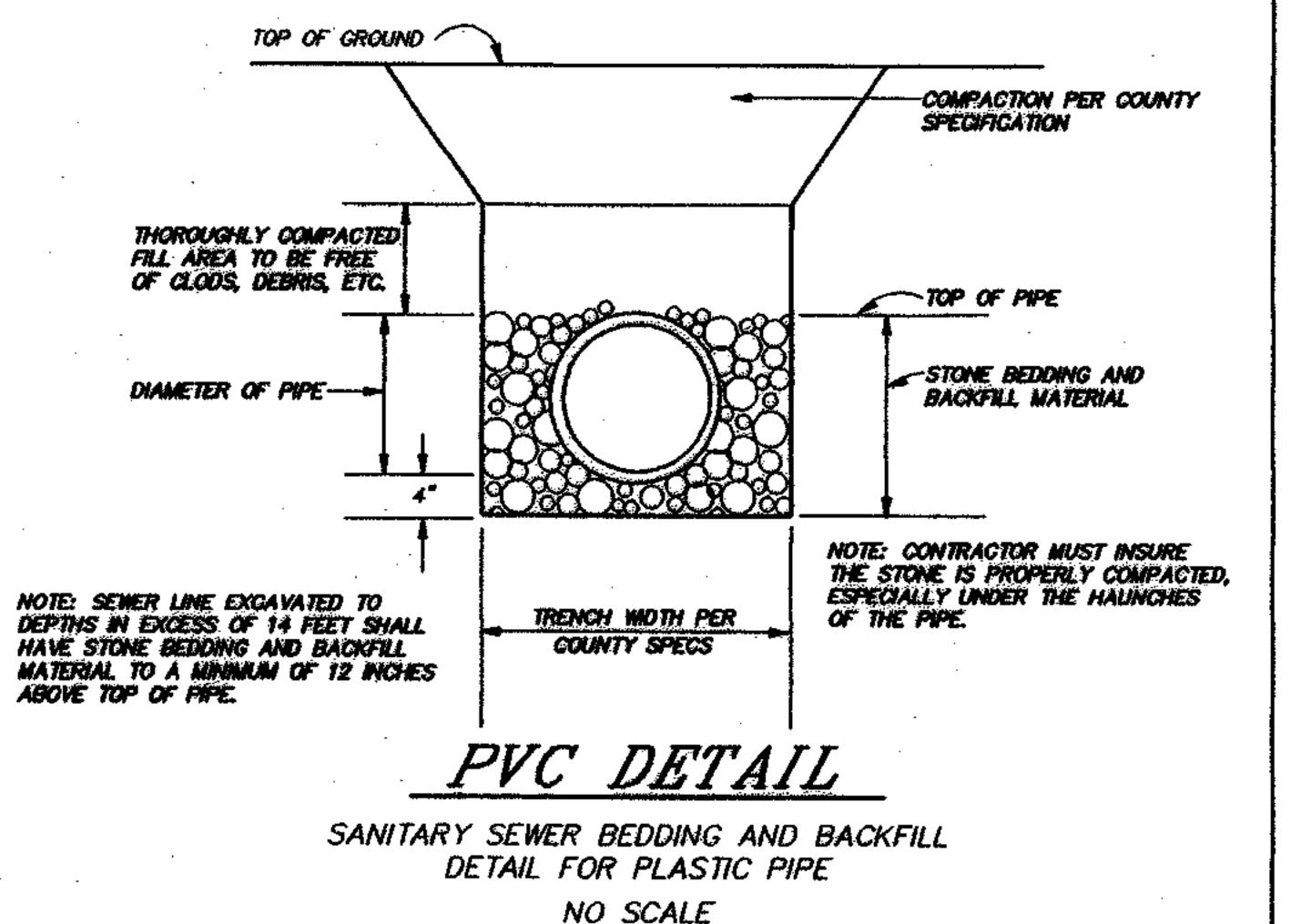


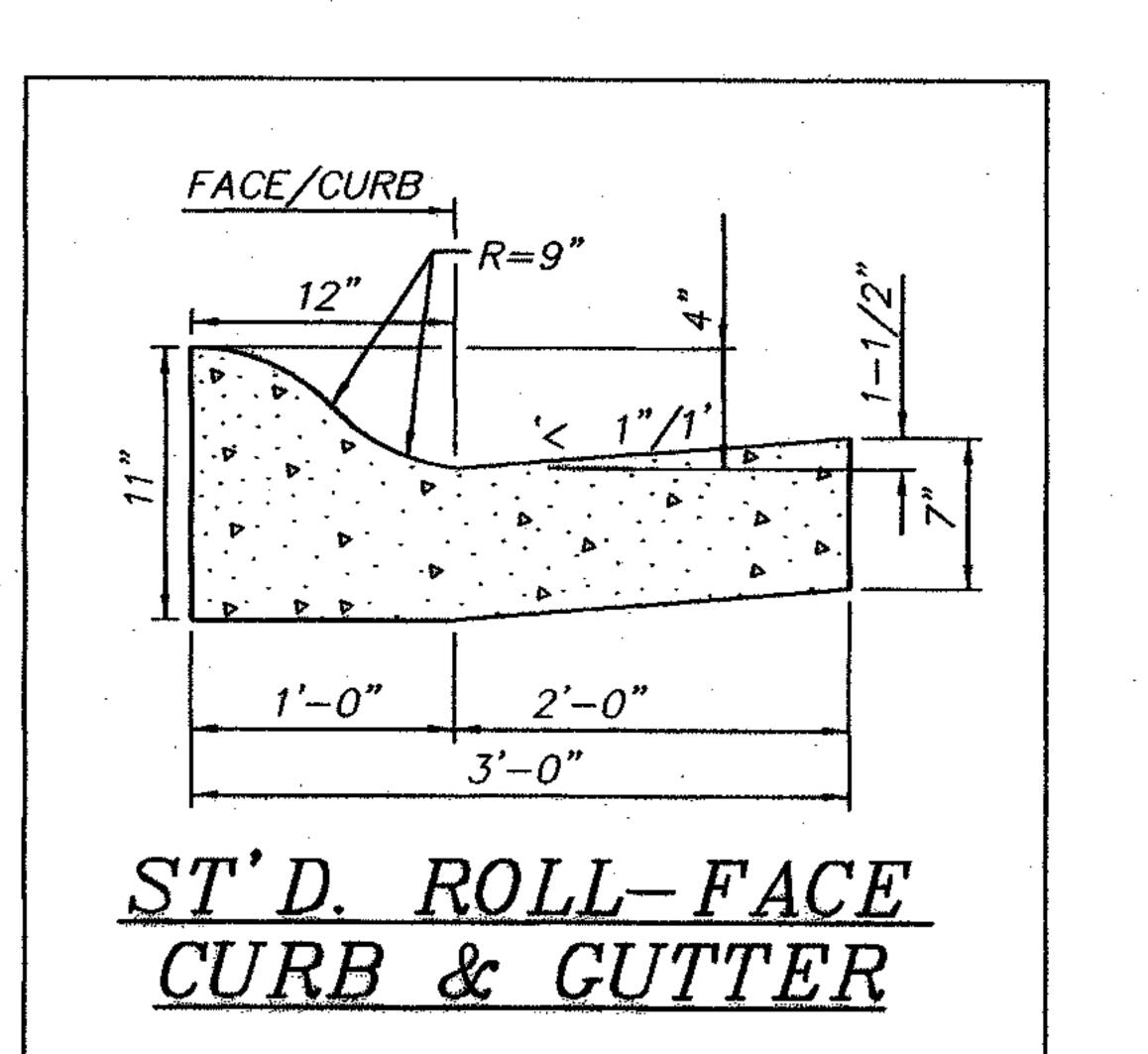
## HALF SECTION IN CUT HALF SECTION IN FILL ROAD SECTION "A-A"

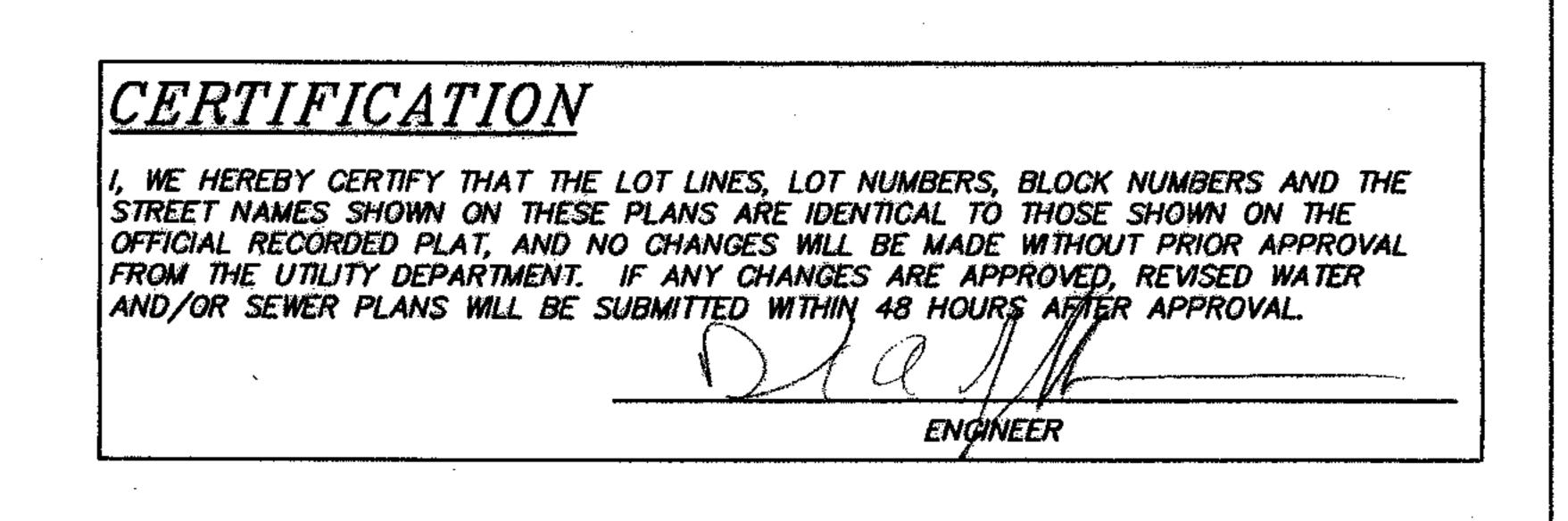
	ROAD CLASSIFICATIONS							
ROAD STA. TO STA.	VPD	CATEGORY -	PAVEMENT DESIGN			,"A"	"B"	"C"
			SUBBASE	BASE	SURFACE	PWYT. WDTH	C/L - F/C	R/W WIDTH
WILLOW OAK DR STA. 22+07 TO STA. 32+60	340	I		8" 21-B	2" SM-2A	16'	18'	50'
TROY TERRACE STA. 5+00 TO STA. 7+15	30	エ		6" 21-B	2" SM-2A	13'	15'	50'
CHINQUAPIN CIRCLE STA. 25+50 TO STA. 36+77	170	I	· · · · · · · · · · · · · · · · · · ·	6" 21-B	2" SM-2A	13'	15'	50'
LACE WING COURT STA. 20+50 TO STA. 26+78	120	I		6" 21-B	2" SM-2A	13'	15'	<i>50'</i>
ROSEWOOD COURT STA. 5+75 TO STA. 8+60	60	T		6" 21-B	2" SM-2A	13'	15'	50'

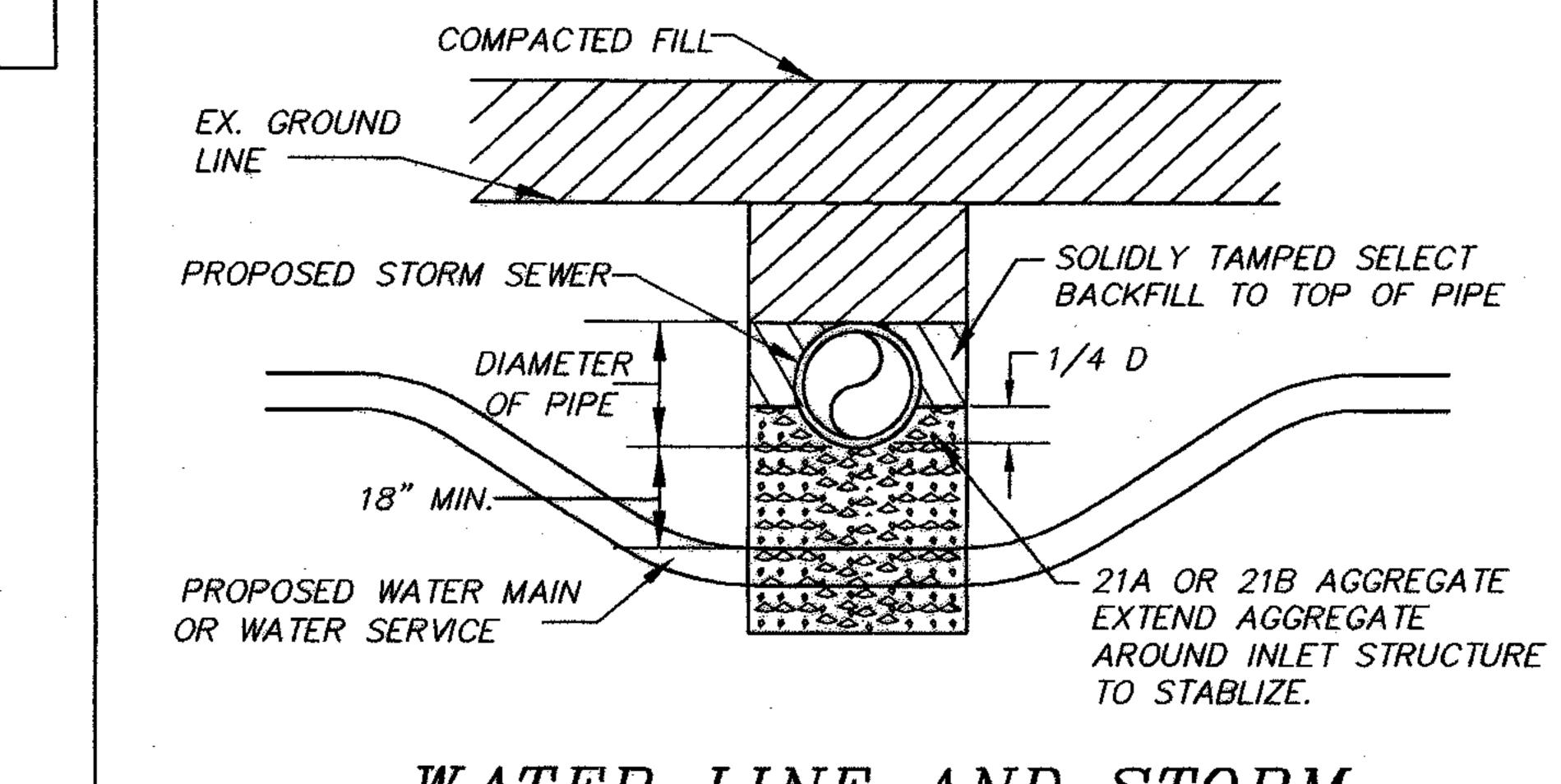
(2) A TACK COAT SHALL BE APPLIED BETWEEN THE AGGREGATE BASE AND ASPHALT COURSES IN ACCORDANCE WITH V.D.O.T. STANDARDS. NOTES: 1) ALL ROADS TO HAVE A MAXIMUM POSTED SPEED LIMIT OF 25 M.P.H.

2) SAW CUT EXISTING ASPHALT. MATCH CROSS SLOPE AND USE PAVEMENT OVERLAY TO CENTERLINE OF ROAD AS REQUIRED TO ENSURE A UNIFORM TYPICAL SECTION, POSITIVE DRAINAGE AND SEALING OF ABUTTING PAVEMENT.

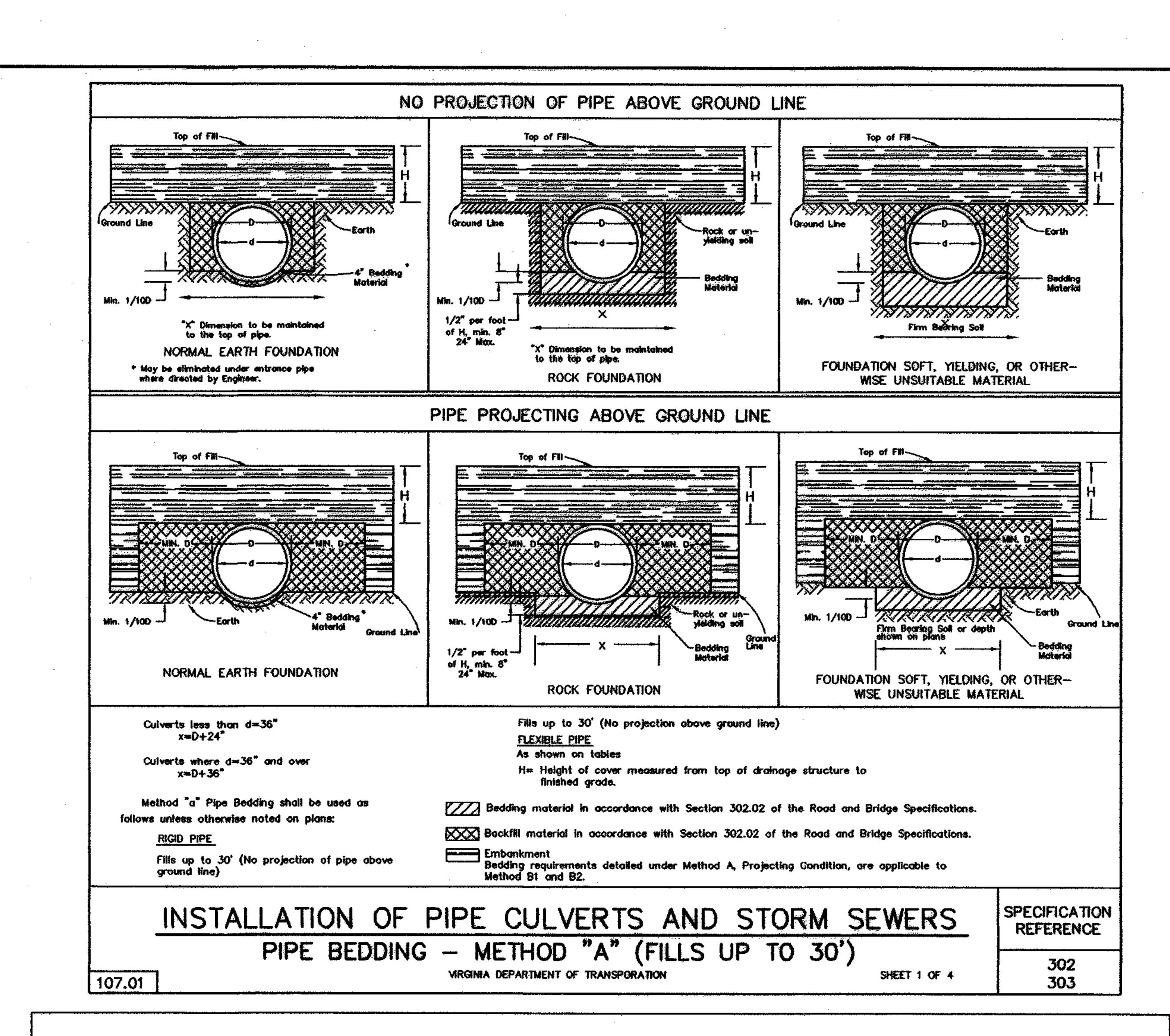


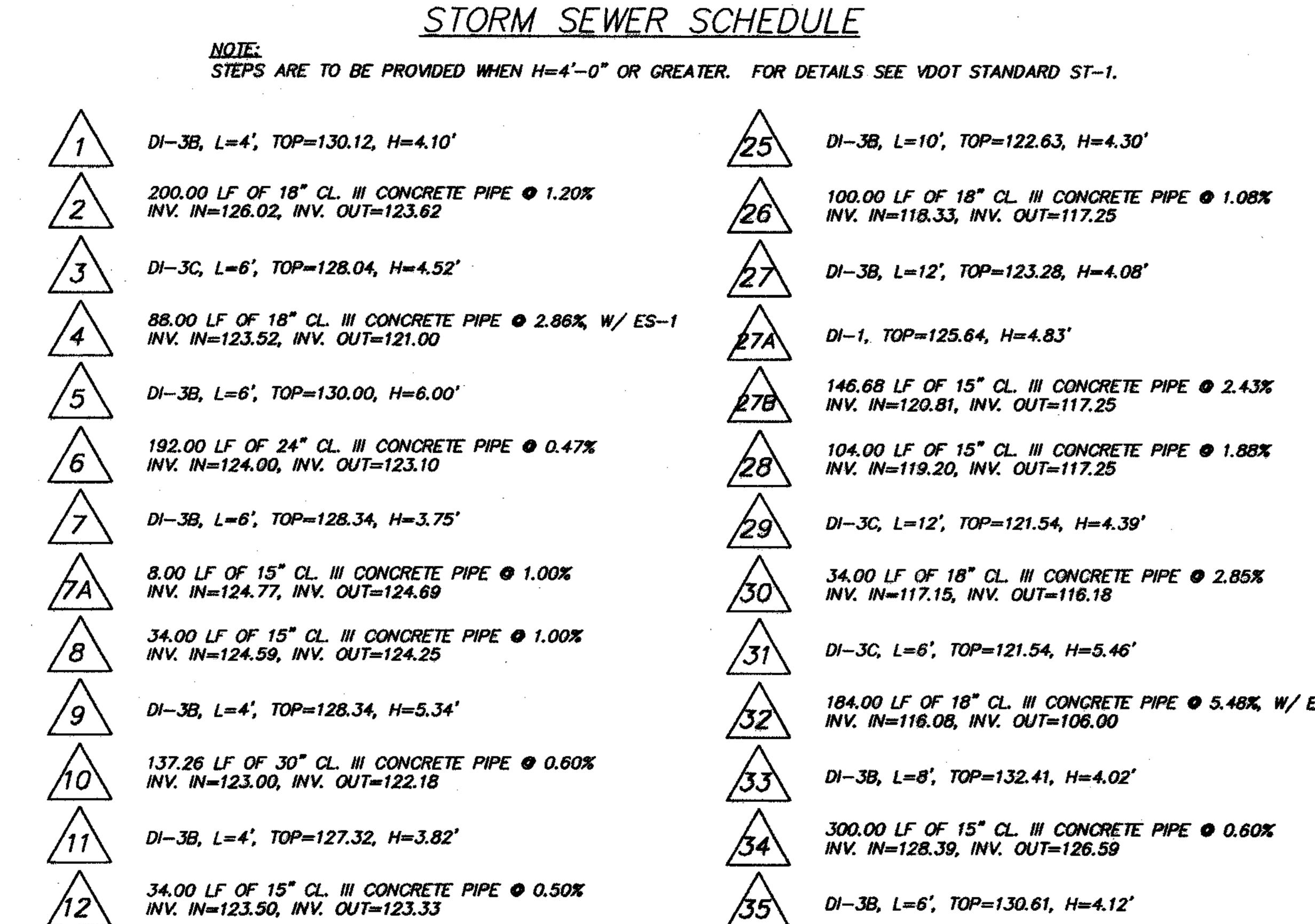






WATER LINE AND STORM SEWER CROSSING DETAIL





DI-3B, L=4', TOP=127.32, H=5.24' INV. IN=126.49, INV. OUT=124.10 144.00 LF OF 30" CL. III CONCRETE PIPE @ 0.53% DI-3B, L=6', TOP=128.10, H=4.10' INV. IN=122.08, INV. OUT=121.32 DI-3B, L=8', TOP=126.49, H=3.34' INV. IN=124.00, INV. OUT=114.39

34.00 LF OF 15" CL. III CONCRETE PIPE @ 2.00% INV. IN=122.22, INV. OUT=120.76 DI-48, L=4', TOP=126.49, H=5.27'

76.00 LF OF 30" CL. III CONCRETE PIPE @ 0.61% INV. IN=121.22, INV. OUT=120.76 DI-4C, L=10', TOP=125.75, H=5.09'

112.00 LF OF 36" CL. III CONCRETE PIPE @ 0.50% INV. IN=120.66, INV. OUT=120.10

DI-3B, L=8', TOP=124.62, H=4.06' 34.00 LF OF 15" CL. III CONCRETE PIPE **©** 0.50% INV. IN=120.56, INV. OUT=120.39

145.00 LF OF 15" CL. III CONCRETE PIPE @ 1.28% INV. IN=120.29, INV. OUT=118.43

DI-3B, L=10', TOP=124.62, H=4.33'

184.00 LF OF 18" CL. III CONCRETE PIPE @ 5.48%, W/ ES-1 330.00 LF OF 15" CL. III CONCRETE PIPE @ 0.72% 272.00 LF OF 15" CL. III CONCRETE PIPE @ 3.53% DI-3C, L=6', TOP=118.71, H=4.42' 120.00 LF OF 15" CL. III CONCRETE PIPE @ 5.91% INV. IN=114.29, INV. OUT=107.20 MH-1, TOP=111.10, H=4.00' 52.00 LF OF 15" CL. III CONCRETE PIPE @ 2.12%, W/ ES-1 INV. IN=107.10, INV. OUT=106.00 DI-3C, L=6', TOP=124.00, H=5.00' 52.00 LF OF 15" CL. III CONCRETE PIPE @ 2.12% INV. IN=107.10, INV. OUT=106.00 MH-1, TOP=100.73, H=4.64' 56.00 LF OF 15" CL. III CONCRETE PIPE @ 3.00% W/ ES-1 55.00 LF OF 18" CL. III CONCRETE PIPE @ 2.73%, W/ ES-1 INV. IN=104.50, INV. OUT=103.00



DRAWN BY

DESIGNED BY

CHECKED BY

. JOHNSON

**SCALE** 

SHEET NO.

EXISTING PAVEMENT | PROPOSED PAVEMENT EXISTING SURFACE COURSE BENCHED PAVEMENT NOTE: PROPOSED PAVEMENT MUST PAVEMENT JOINT DETAIL