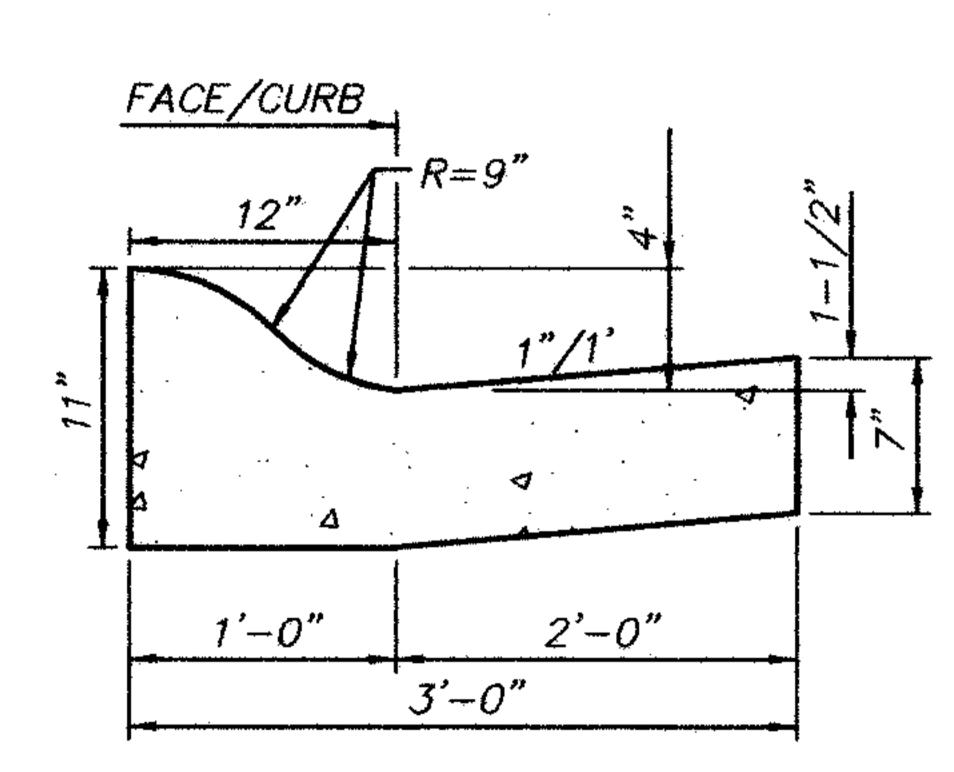
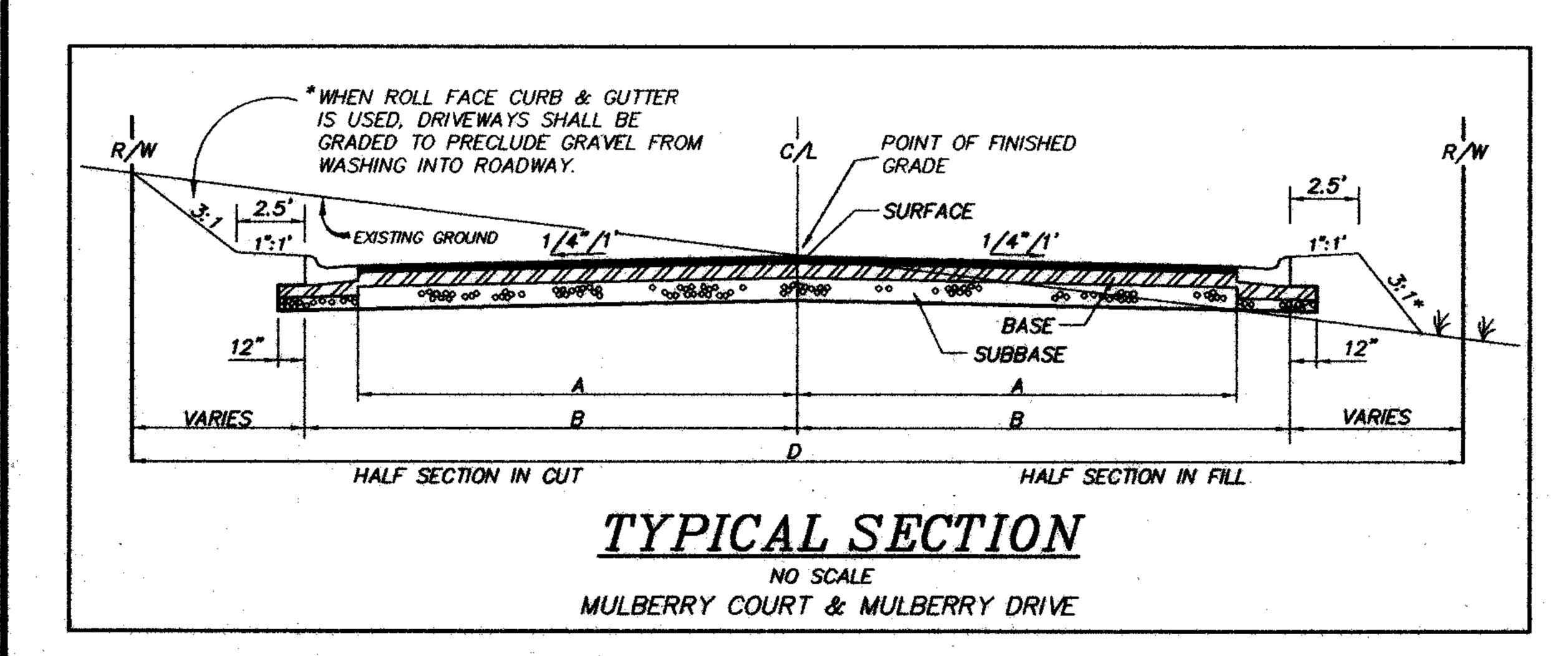


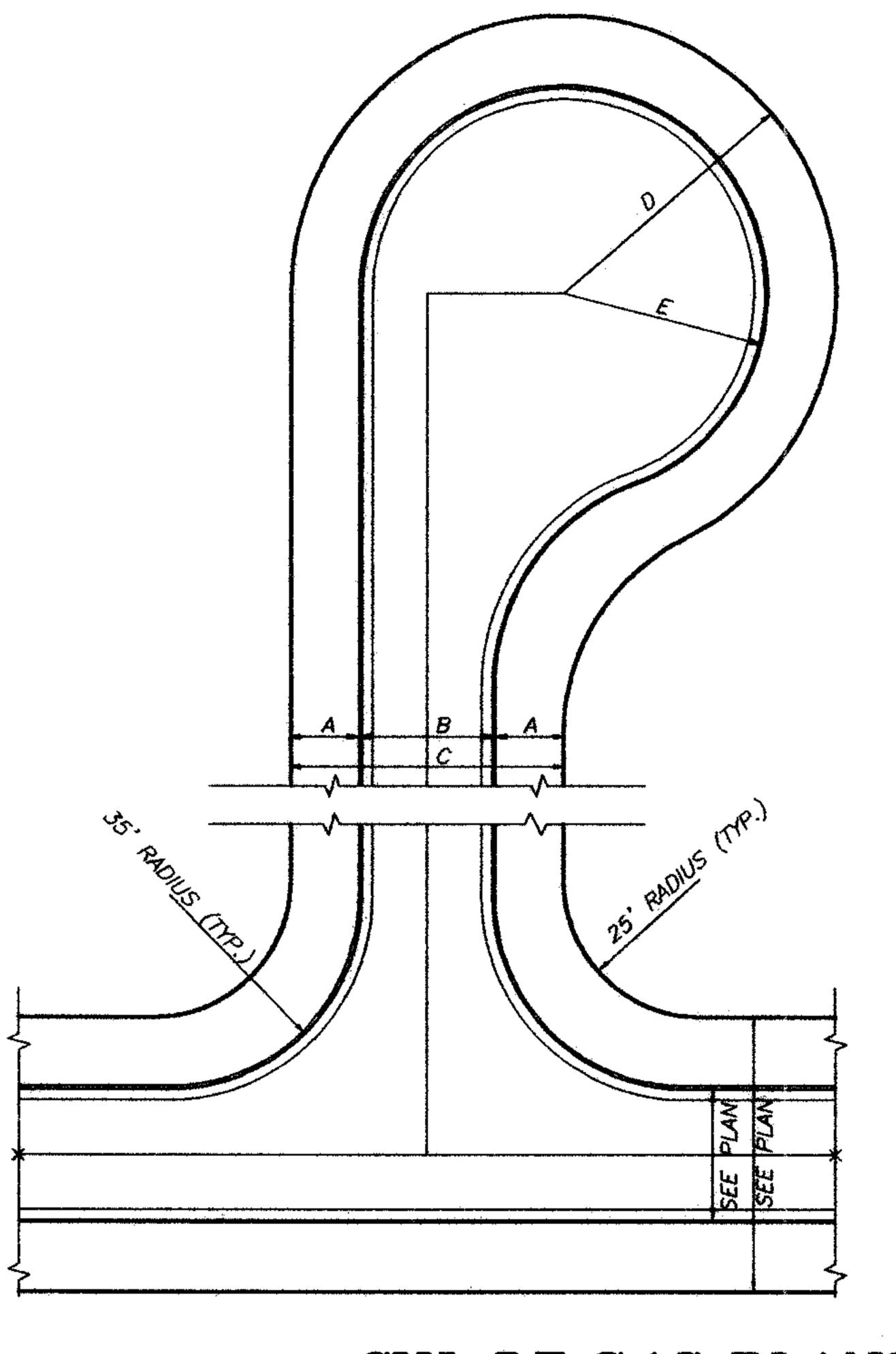
ST'D CG-6 CURB & GUTTER



ST'D. ROLL-FACE CURB & GUTTER

ROAD CLASSIFICATION								
ROAD	VPD	CATEGORY -	PAVEMENT DESIGN ① ②			"A"	"B"	*D*
			SUBBASE	BASE	SURFACE	PVM'T. WIDTH (C/L - E/P)	C/L TO B/C	R/W WIDTH
MULBERRY DRIVE	310			6" 21 B	2" SM-2A	13'	16'	50'
MULBERRY COURT	20	.,	,	6" 21 B	2" SM-2A	13'	16'	<i>50'</i>





CUL DE SAC PLANS

NO SCALE

QUANTITIES AS SHOWN ARE APPROXIMATE ONLY. AKE THEIR OWN TAKEOFFS.

THE CONNECTOR PIPE SHALL BE CEMENT LINED IN ACCORDANCE WITH AWWA

 $B \qquad B/C - B/C \qquad 32'$

R/W - R/W = 50

R/P - R/W 50

R/P - B/C 41

1416 LF

CONTRACTO	RS SHOULD	MAKE THEIR OWN TAKEOFFS.	,
WATER		SEWER	
8" PVC W/L 8" G.V. & BOX 8"X8" TAPPING SLEEVE & VALVE 6" G.V. & BOX FIRE HYDRANT ASSEMBLY	2137 LF 3 EA 1 EA 1 EA 3 EA 816 LF	8" D.I. 8" PVC 6" PVC SERVICES STANDARD MH. ST'D. FRAME & COVER SERVICE OUT OF M.H.	293 LF 1416 LF 970 LF 10 EA 10 EA 13 EA
3/4" W/L SERVICE TIE TO EXISTING W/L 5/8" METER 8" X 45' BEND 8" X 90' BEND 8" PLUG	1 EA 31 EA 2 EA 1 EA 1 EA		
OPTION 1: IF GRADE ADJUSTMENT IS NOT	REQUIRED.		

IN STRAIGHT ALIGNMENTS, TRANSITION

----COMPACTION PER COUN

-STONE BEDDING AND

BACKFILL MATERIAL

SPECIFICATION

TOP OF PIPE

NOTE: CONTRACTOR MUST

ENSURE THE STONE I

SHALL BE 20' LONG, LEFT & RIGHT

FOR ALL SAG INLETS.

-ROLL-FACE C&G

CURB TRANSITION

FROM ROLL-FACE CURB TO CG-6

NO SCALE

PVC DETAIL

SANITARY SEWER BEDDING AND BACKFILL

DETAIL FOR PLASTIC PIPE

TOP OF GROUND 1

FILL AREA TO BE FREE OF CLODS, DEBRIS, ETC

DIAMETER OF PIPE ----

NOTE: SEWER LINE EXCAVATED

TO DEPTHS IN EXCESS OF 14

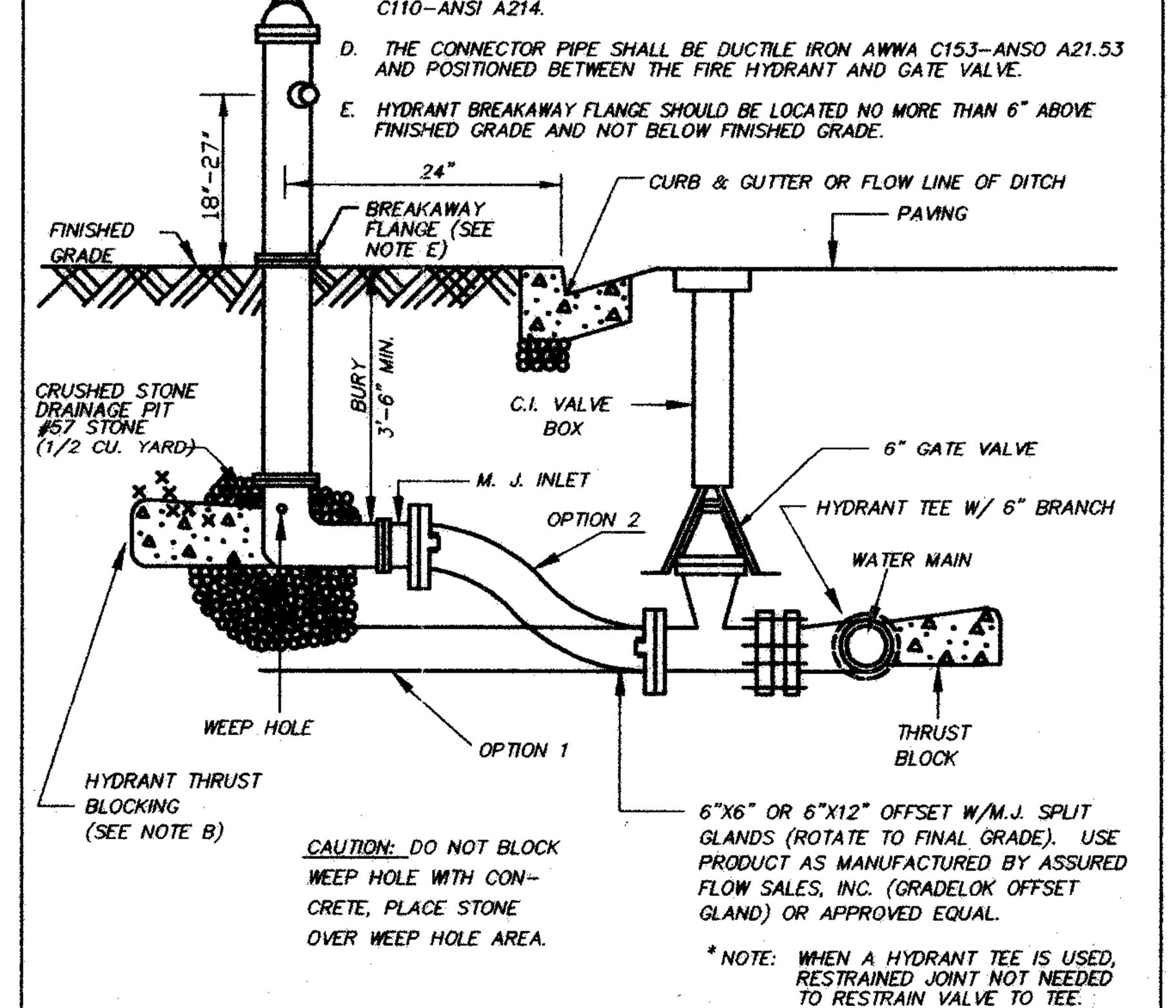
AND BACKFILL MATERIAL TO A

MINIMUM OF 12 INCHES ABOVE

TOP OF PIPE.

FEET SHALL HAVE STONE BEDDING

A.	N 1: IF GRADE ADJUSTMENT IS NOT REQUIRED: CONNECTOR PIPE MAY BE APPROVED D.I. OR P.V.C. PIPE. IF ALL JOINTS FROM HYDRANT TEE TO HYDRANT ARE RESTRAINED WITH APPROVED JOINT RESTRAINT D THRUST BLOCKING BEHIND HYDRANT NOT REQUIRED.
Å.	N 2: IF GRADE ADJUSTMENT IS REQUIRED: THE CONNECTOR PIPE SHALL BE OF THE OFFSET DESIGN SO THAT THE FIRE HYDRANT CAN BE ADJUST TO ENSURE PLACEMENT AT THE PROPER GRADE. WHEN THE CONNECTOR PIPE IS THE OFFSET DESIGN SHALL HAVE AN ANCHORING FEATURE AT BOTH ENDS SO THAT WHEN USED WITH M.J. SPLIT GLANDS A RESTRAINED JOINT IS PROVIDED.
B.	IF ALL JOINTS FROM HYDRANT TEE TO HYDRANT ARE RESTRAINED WITH APPROVED JOINT RESTRAINT DEVICE, THRUST BLOCKING BEHIND HYDRANT NOT REQUIRED.



TYPICAL FIRE HYDRANT DETAIL

OWNER AND DEVELOPER: P.O. BOX 207 PRINCE GEORGE, VA 23875

(804) 862-1921

3. NUMBER OF LOTS:

4. TAX MAP NUMBER:

EROSION CONTROL NOTES

. ALL DISTURBED AREAS TO BE SEEDED WITHIN 15 DAYS AFTER ROUGH GRADING IS COMPLETED.

2. ALL STREETS WILL BE STABILIZED WITH BASE STONE WITHIN 30 DAYS AFTER FINAL GRADING.

THE PRINCE GEORGE ENGINEERING OFFICE WILL BE NOTIFIED 24 HOURS IN ADVANCE OF ANY PLANS TO BEGIN CLEARING AND GRADING OPERATIONS.

I. THE PRINCE GEORGE COUNTY ENGINEERING DEPARTMENT AND ALL OTHER INTERESTED COUNTY AGENCIES SHALL MAKE A CONTINUING REVIEW AND EVALUATION OF THE METHOD USED AND THE OVERALL APPROVED CONTROL MEASURES ARE NOT EFFECTIVE IN CONTROLLING EROSION AND SEDIMENTATION OR BECAUSE OF CHANGED CIRCUMSTANCES THE APPROVED PLAN CANNOT BE CARRIED OUT.

CONSTRUCTION NOTES

JANUARY 1. 1993 EDITION OF ROAD AND BRIDGE SPECIFICATIONS AND JANUARY 1, 1993 EDITION OF THE ROAD DESIGNS AND STANDARDS OF THE VIRGINIA DEPARTMENT OF HIGHWAYS SHALL GOVERN THE FOLLOWING: . POURING, CURING, FORMS, WORKMANSHIP, ETC. OF ALL CONCRETE USED ON THIS PROJECT.

B. STABILIZED BASE COURSE MATERIAL. . MATERIALS AND INSTALLATION OF ALL PIPE CULVERTS.

VOOT 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.

4. OWNER WILL FURNISH SURVEY CONTROL OFF SET HUBS FOR ALL ROADS AND EASEMENTS FOR ALIGNMENT AND GRADE. ROADS WILL BE STAKED ON ONLY ONE SIDE. REPLACEMENT OF THESE HUBS AND ANY OTHER STAKING WILL BE DONE BY THE CONTRACTOR AT HIS EXPENSE. THE CONTRACTOR SHALL INSPECT THE CONTROL STAKING MENTIONEL ABOVE AND VERIFY BEFORE CONSTRUCTION.

5. ALL GRADE STAKES DESTROYED BY THE CONTRACTOR, SHALL BE REPLACED AT HIS EXPENSE.

MARKERS DANAGED SHALL BE REPLACED AT HIS EXPENSE.

. CLEARING AND GRUBBING SHALL BE COMPLETE WITHIN THE RIGHT OF WAYS AS INDICATED ON LAYOUT PLAN.

8. ALL DRAINAGE EASEMENTS TO BE CLEARED, GRUBBED, AND GRADED TO CONTAIN WATER FROM PIPE CULVERTS AND TO EXTEND TO A NATURAL WATERCOURSE.

10. ALL FILLETS AT INTERSECTIONS TO HAVE 35' RADII UNLESS OTHERWISE NOTED.

. GRADE LINES ON PROFILES DENOTE FINISHED GRADE OF CENTER LINE OF ROAD.

2. BASE MUST BE APPROVED BY VOOT 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. 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).

SEWER AND WATER NOTES

ALL MATERIALS FOR THE SEWER SYSTEM SHOWN SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST APPLICABLE SPECIFICATION OF PRINCE GEORGE COUNTY.

ALL MATERIALS FOR WATER SYSTEM TO RIGHT OF WAY LINE SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH THE LATEST APPLICABLE SPECIFICATIONS OF VIRGINIA AMERICAN WATER COMPANY.

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.

PRIOR TO CONSTRUCTION OF A 6' SEWER SERVICE.

5. SEWER PIPE SHALL BE CL 52 D.I. 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 U.S.C.G.S. DATUM . CONTRACTOR SHALL INSTALL 6" SEWER SERVICE CONNECTIONS TO ALL LOTS (R/W LINE OR EDGE OF EASEMENT) AS

(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.) IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXCAVATED MATERIAL SUITABLE FOR BACKFILL FROM SAID CONTAMINATES OR ANY INCREASE IN MOISTURE CONTENT.

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.

THE ENGINEER WILL CERTIFY THAT THE ROADS ARE WITHIN 6" OF SUBGRADE BEFORE WATERLINE CONSTRUCTION CAN

14. WATER AND SEWER ALIGNMENT HAVE NOT BEEN TESTED FOR THE PRESENCE OF ROCK.

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 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. ALL WATERLINE VALVES MUST BE LOCATED ON THE TEE OR CROSS WHEN APPLICABLE.

19. USE OF HEIGHT ADJUSTMENT RINGS WILL NOT BE ALLOWED EXCEPT UNDER PAVED SURFACES WHERE A MAXIMUM OF ONE RING IS PERMITTED.

20. ALL FIRE HYDRANTS SHALL BE O.S.H.A. RED IN COLOR.

21. 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.

22. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING THE BACKFLOW PREVENTERS AND CHECK VALVE ASSEMBLIES.

DRAWN BY

DESIGNED BY

s. BROOKS

. BROOKS

JOHNSON

CHECKED BY