VIRGINIA DEPARTMENT OF TRANSPORTATION NOTES:

QUALITY CONTROL

STREETS TO BE GRADED, PAVED AND ALL STRUCTURAL COMPONENTS ERECTED IN ACCORDANCE WITH CURRENT VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS AND ROAD DESIGN STANDARDS AND COUNTY DESIGN STANDARDS AND SPECIFICATIONS. ALL MATERIALS USED SHALL BE TESTED IN ACCORDANCE WITH STANDARD POLICIES. THE DEVELOPER MUST CONTACT THE OFFICE OF THE RESIDENT ENGINEER, PRIOR TO BEGINNING ANY CONSTRUCTION AT WHICH TIME AN INSPECTION AND TESTING PROCEDURE POLICY WILL BE DRAWN. THE DEVELOPER WILL PRODUCE TEST REPORTS FROM APPROVED INDEPENDENT LABORATORIES AT THE DEVELOPER'S

THE PAVEMENT DESIGNS SHOWN ARE BASED ON A SUBGRADE CBR VALUE OF 10 OR GREATER. THE SUBGRADE SOIL IS TO BE TESTED BY AN INDEPENDENT LABORATORY AND THE RESULTS SUBMITTED TO THE VIRGINA DEPARTMENT OF TRANSPORATION PRIOR TO BASE CONSTRUCTION. SHOULD THE SUBGRADE CBR VALUES BE LESS THAN 10, THEN ADDITIONAL BASE MATERIAL WILL BE REQUIRED IN ACCORDANCE WITH DEPARTMENTAL SPECIFICATIONS.

THE SUBGRADE MUST BE APPROVED BY VIRGINIA DEPARTMENT OF TRANSPORTATION PRIOR TO PLACEMENT OF THE BASE. BASE MUST BE APPROVED BY VIRGINIA DEPARTMENT OF TRANSPORTATION FOR DEPTH, TEMPLATE AND COMPACTION BEFORE SURFACE IS APPLIED.

ALL NECESSARY UTILITY LATERALS ALONG WITH PROVISIONS FOR CONDUITS (I.E. WATER, SEWER, STORM, GAS AND TELEPHONE) WILL BE CONSTRUCTED PRIOR TO PLACEMENT OF BASE MATERIAL.

GAS OR PETROLEUM TRANSMISSION LINES WILL NOT BE PERMITTED WITHIN THE PAVEMENT OR SHOULDER ELEMENT (BACK OF CURB TO BACK OF CURB) OF THIS DEVELOPMENT. SERVICE LATERALS CROSSING AND PIPE LINES LOCATED OUTSIDE THE PAVEMENT BUT INSIDE THE RIGHT OF WAY WILL BE CONSTRUCTED IN CONFORMITY WITH ASA B 31.8 SPECIFICATIONS AND SAFETY REGULATIONS. DISTRIBUTION LINES WITH PRESSURES LESS THAN 120 LBS. ARE UNAFFECTED BY THE ABOVE.

PERMITS WILL BE REQUIRED FOR ALL UTILITIES WITHIN STREET RIGHT OF WAY PRIOR TO ACCEPTANCE INTO THE SECONDARY HIGHWAY SYSTEM.

ANY EASEMENTS GRANTED TO A UTILITY COMPANY FOR PLACEMENT OF POWER, TELEPHONE, ETC. MUST BE RELEASED PRIOR TO ACCEPTANCE.

MODIFIED CG-9D GUTTER WILL BE PROVIDED AT ALL ENTRANCES TO PRIVATE LOTS WHERE STANDARD CG-6 CURB AND GUTTER IS APPROVED FOR USE.

DRIVEWAYS CONNECTING TO ROADS WITHOUT CURB & GUTTER SHALL CONFORM TO THE PAVEMENT, SHOULDER & SLOPE

PERMITS WILL BE REQUIRED FOR ALL PRIVATE ENTRANCES CONSTRUCTED ON STREET RIGHTS OF WAY AFTER ACCEPTANCE INTO THE SECONDARY HIGHWAY SYSTEM.

4. EROSION CONTROL AND LANDSCAPING

CARE MUST BE TAKEN DURING CONSTRUCTION TO PREVENT EROSION, DUST AND MUD FROM DAMAGING ADJACENT PROPERTY, CLOGGING DITCHES, TRACKING PUBLIC STREETS AND OTHERWISE CREATING A PUBLIC OR PRIVATE NUISANCE TO SURROUNDING AREAS.

THE ENTIRE CONSTRUCTION AREA INCLUDING DITCHES, CHANNELS, BACK OF CURBS AND OR PAVEMENT ARE TO BE BACKFILLED AND SEEDED AT THE EARLIEST POSSIBLE TIME AFTER FINAL GRADING.

DRAINAGE EASEMENTS MUST BE DEFINED BY EXCAVATED DITCHES OR CHANNELS FOR THEIR FULL LENGTH TO WELL DEFINED EXISTING NATURAL

THE ROAD WILL BE REVIEWED DURING CONSTRUCTION FOR THE NEED OF PAVED DITCHES. IF EROSION IS ENCOUNTERED IN ANY DRAINAGE EASEMENT, IT WILL BE THE RESPONSIBILITY OF THE DEVELOPER TO SOD, RIP RAP, GROUT, PAVE OR TO DO WHATEVER IS NECESSARY TO

ALL VEGETATION AND OVERBURDEN TO BE REMOVED FROM SHOULDER TO SHOULDER PRIOR TO THE CONDITIONING (CUTTING AND/OR PREPARATION) OF THE SUBGRADE.

5. INTERSECTION PAVEMENT RADIUS

MINIMUM PAVEMENT RADIUS OF 25 FEET IS REQUIRED AT ALL STREET INTERSECTION.

6. CONNECTIONS TO STATE-MAINTAINED ROADS

WHILE THESE PLANS HAVE BEEN APPROVED, SUCH APPROVAL DOES NOT EXEMPT CONNECTIONS WITH EXISTING STATE-MAINTAINED ROADS FROM CRITICAL REVIEW AT THE TIME PERMIT APPLICATIONS ARE MADE. THIS IS NECESSARY IN ORDER THAT THE PREVAILING CONDITIONS BE TAKEN INTO CONSIDERATION REGARDING SAFETY ACCOMPANIMENTS SUCH AS TURNING LANES.

GUARDRAILS

STANDARD GUARDRAIL WITH SAFETY END SECTIONS MAY BE REQUIRED ON FILLS AS DEEMED NECESSARY BY THE RESIDENT ENGINEER. AFTER COMPLETION OF ROUGH GRADING OPERATIONS, THE OFFICE OF THE RESIDENT ENGINEER, SHALL BE NOTIFIED SO THAT A FIELD REVIEW MAY BE MADE OF THE PROPOSED LOCATIONS.

WHERE GUARDRAILS ARE TO BE INSTALLED THE SHOULDER WIDTH SHALL BE INCREASED IN ACCORDANCE WITH VDOT ROAD AND BRIDGE

8. STORM DRAINAGE

FIELD REVIEW WILL BE MADE DURING CONSTRUCTION TO DETERMINE THE NEED AND LIMITS OF PAVED DITCHES AND/OR DITCH STABILIZATION TREATMENTS, AND TO DETERMINE THE NEED AND LIMITS OF ADDITIONAL DRAINAGE EASEMENTS. ALL DRAINAGE EASEMENTS MUST BE CUT AND MADE TO FUNCTION TO A NATURAL WATERCOURSE. ANY EROSION PROBLEMS ENCOUNTERED IN AN EASEMENT MUST BE CORRECTED BY WHATEVER MEANS NECESSARY PRIOR TO SUBDIVISION ACCEPTANCE.

DITCH SLOPES ARE TO BE FOUR TO ONE (4:1) FOR SHOULDER WIDTHS OF SIX FEET (6') OR GREATER AND THREE TO ONE (3:1) FOR SHOULDER WDTHS OF FOUR FEET (4') OR FIVE FEET (5'), UNLESS OTHERWISE SPECIFIED IN THE PLANS.

CONTRACTOR SHALL OBTAIN ENTRANCE PERMIT TO THE EXISTING VIRGINIA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY FROM RESIDENT ENGINEER PRIOR TO ROAD CONSTRUCTION.

AN INSPECTOR WILL NOT BE FURNISHED EXCEPT FOR PERIODIC PROGRESS INSPECTION, THE ABOVE MENTIONED FIELD REVIEWS AND CHECKING FOR REQUIRED STONE DEPTHS. THE DEVELOPER WILL BE REQUIRED TO POST A SURETY TO GUARANTEE THE ROAD FREE OF DEFECTS FOR ONE YEAR AFTER ACCEPTANCE BY THE DEPARTMENT OF TRANSPORTATION.

11. STREET MAINTENANCE

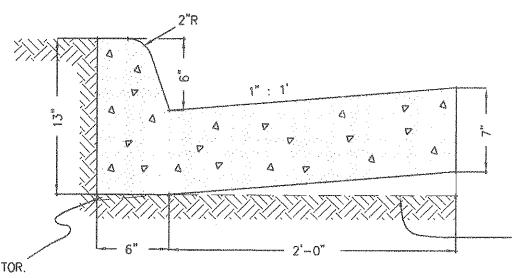
THE STREETS MUST BE PROPERLY MAINTAINED UNTIL ACCEPTANCE. AT SUCH TIME AS ALL REQUIREMENTS HAVE BEEN MET FOR ACCEPTANCE, ANOTHER INSPECTION WILL BE MADE TO DETERMINE THAT THE STREET HAS BEEN PROPERLY MAINTAINED.

THIS AREA MAY BE CONCRETE

CONTRACTOR SHALL VERIFTY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON THE PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK BY CONTACTING MISS UTILITY. CONTACT SITE ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLANS. IF THERE APPEARS TO BE A CONFLICT, AND UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THIS PLAN. CALL "MISS UTILITY" OF CENTRAL VIRGINIA AT 1-800-552-7001.

13. REVISIONS OF SPECIFICATIONS AND STANDARDS

APPROVAL OF THESE PLANS WILL BE BASED ON SPECIFICATIONS AND STANDARDS IN EFFECT AT THE TIME OF APPROVAL AND WILL BE SUBJECT, UNTIL COMPLETION OF THE ROADWAY AND ACCEPTANCE BY THE DEPARTMENT, TO FUTURE REVISIONS OF THE SPECIFICATIONS AND STANDARDS.



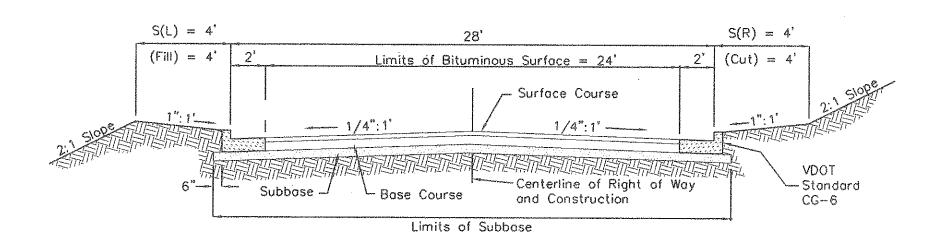
AT THE OPTION TO THE CONTRACTOR.

THIS ITEM MAY BE PRECAST OR CAST IN PLACE. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF

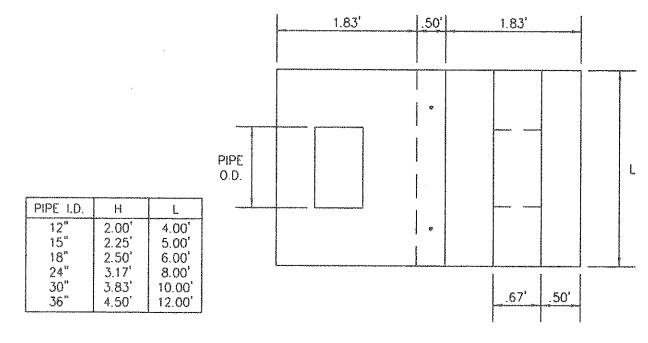
PRECAST.

THE BOTTOM OF THE CURB AND GUTTER MAY BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUB-SURFACE COURSES PROVIDED A MINIMUM DEPTH OF 7" IS MAINTAINED.

CONCRETE CURB AND GUTTER (CG-6)

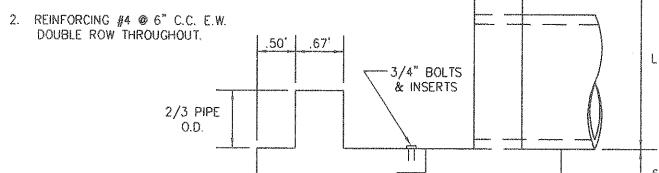


20/20/20/20/20/20			
ROAD NAME	STATION TO STATION	PAVEMENT DESIGN	RIGHT-OF-WAY WIDTH
KNIGHTSBRIDGE DRIVE	10+00 TO 13+00	8" 21-B; 2" SM-2A	40'
KNIGHTSBRIDGE DRIVE	13+00 TO CUL-DE-SAC	6" 21-B: 2" SM-2A	40'
PADDINGTON COURT	30+14 TO CUL-DE-SAC	6" 21-B; 2" SM-2A	40'



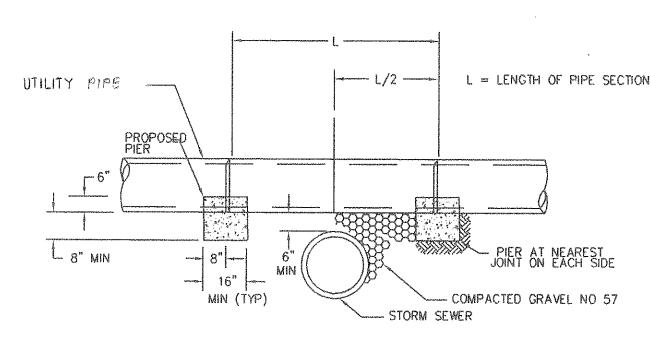
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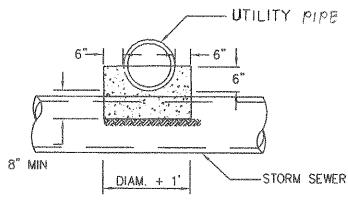
1. CONCRETE 4,000 P.S.I.



EW-1 MODIFIED WITH ENERGY DISSIPATOR

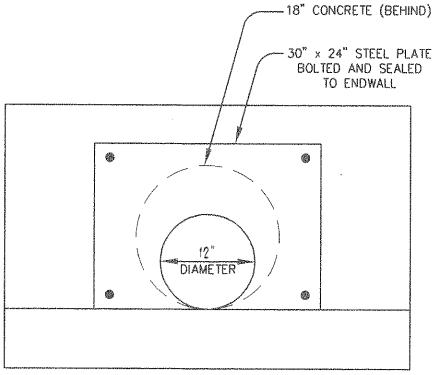
NO SCALE

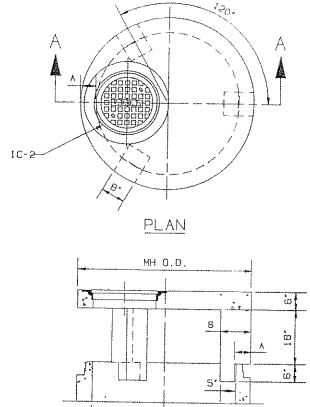


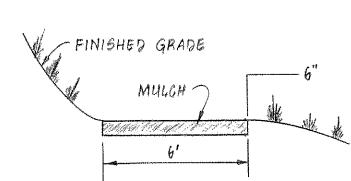


1. PIER TO BE BUILT ON UNDISTURBED EARTH. 2. CONCRETE TO BE READY MIX, CLASS A3.

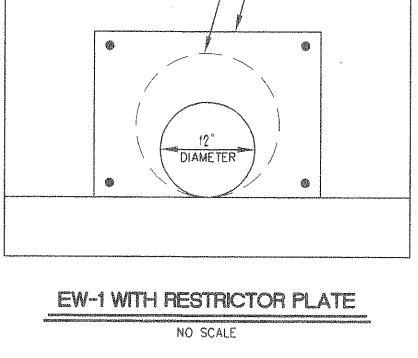
> CONCRETE PIER NO SCALE

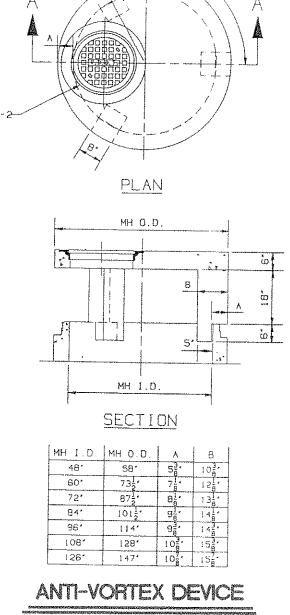






PEDESTRAIN WALKWAY NOT TO SCALE





NO SCALE

MICHAEL S. WEBB

9-14-77

REVISION DATE DESCRIPTION NOTES AND DETAILS DESIGNED: TCD SUMMERPLACE DRAWN: TCD PREPARED FOR JOE R. BLACKSTOCK CHECKED: MSW CAVE SPRING MAGISTERIAL DISTRICT ROANOKE COUNTY, VIRGINIA

ADHERE TO SEWER MAIN.

ANCHOR BLOCK

NO SCALE

DIAMETER + 2'-0"

ROANOKE. VIRGINIA

GENERAL NOTES:

1. THE PROPERTY SHOWN ON THESE PLANS IS LOCATED AT ROANOKE

2405 CAROLINA AVENUE

ROANOKE, VIRGINIA 24014

5. THE PROPERTY SHOWN ON THESE PLANS IS TO BE SERVED BY PUBLIC

6. THE DEVELOPMENT SHOWN ON THESE PLANS SHALL BE ACCESSED BY

BY LUMSDEN ASSOCIATES, P.C. THE CONTOUR INTERVAL = 2'.

7. PLANIMETRIC DATA PROVIDED BY PHOTOGRAMMETRIC DATA SERVICES WITH

HORIZONTAL & VERTICAL CONTROL SUPPLIED BY FIELD SURVEY PERFORMED

COUNTY TAX ASSESSMENT MAP 97.01-1-5.

THE ASSESSED AREA IS APPROXIMATELY 35.69 ACRES. 4. NO TITLE REPORT FURNISHED FOR THIS PROPERTY.

2. DEVELOPER: MR. JOE R. BLACKSTOCK

WATER AND PUBLIC SEWER.

SITE AND ZONING TABULATIONS

SITE ACREAGE - 35.69 ACRES

MINIMUM FRONTAGE REQUIRED

MINIMUM REQUIRED SETBACKS:

MAXIMUM HEIGHT ALLOWED - 45"

FRONT - 30'

SIDE YARD - 10'

CONSTRUCTION NOTES

REAR - 25'

PROPOSED NUMBER OF LOTS - 29

PROPOSED USE - SINGLE FAMILY DETACHED

MINIMUM LOT AREA REQUIRED - 7,200 SQ. FT.

(MEASURED AT THE R.O.W. LINE) - 60°

CORNER LOTS - SIDE YARD ABUTTING A STREET - 30'

BUILDINGS & 7% FOR ACCESSORY BUILDINGS

MAXIMUM LOT COVERAGE - 50% OF TOTAL LOT AREA

ROANOKE STANDARDS AND SPECIFICATIONS.

MAXIMUM BUILDING COVERAGE - 30% OF TOTAL LOT AREA FOR ALL

1. ALL CONSTRUCTION SHALL CONFORM TO THE CURRENT COUNTY OF

PERMITS OBTAINED FROM ANY AUTHORITY ISSUING PERMITS.

4. THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY EXISTING

CONDITIONS PRIOR TO STARTING CONSTRUCTION.

SEDIMENT CONTROL PLAN PRIOR TO CONSTRUCTION.

FINISHED GRADE

PRIOR TO STARTING CONSTRUCTION.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER

AND THE ENGINEER OF ANY CHANGES OR CONDITIONS ATTACHED TO

3. NO SUBSOIL INVESTIGATIONS HAVE BEEN MADE BY THE DESIGNING ENGINEER.

5. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES

6. ALL AREAS TO BE GRADED SHALL BE STRIPPED OF PAVEMENT AND ORGANIC

MATTER. ALL MATERIAL NOT SUITED FOR USE AS FILL MATERIAL SHALL BE

BE CLEAN EARTH AND PLACED IN 8-INCH LIFTS. FILL MATERIAL SHALL BE

7. ANY BORROW OR WASTE SITE MUST HAVE AN APPROVED EROSION AND

COMPACTED TO AT LEAST 95% MAXIMUM DRY DENSITY, STANDARD PROCTOR.

NO.4 REBAR

NO.4 REBAR ·

VARIABLE SIZE

SEWER PIPE

UNDISTURBED SOIL

REMOVED FROM THE SITE AND DISPOSED OF PROPERLY. FILL MATERIAL SHALL

PROPOSED ZONING - R-1

PUBLIC ROADS.

SCALE: NONE COMM: 97-054 DATE: 25 MARCH 1998 | SHEET 4 of 14

READY MIX CONCRETE 3000 PSI IN 28 DAYS 1. GRADES FROM 20% TO 35% -- 36 FEET ON CENTER GRADES FROM 35% TO 50% -- 24 FEET ON CENTER GRADES FROM 50% TO 60% -- 16 FEET ON CENTER 2. INSTALL WATER STOP AROUND PVC PIPE PRIOR TO POURING ANCHOR BLOCK TO ALLOW CONCRETE TO