

SECTION

PLAN

TRACER WIRE ACCESS VAULT

5' SECTION OF TRACER

(EACH DIRECTION)

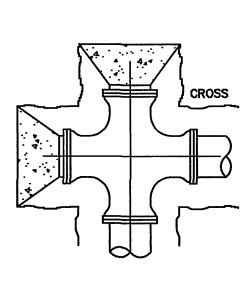
WIRE EXTENDED INTO VAULT,

-NEATLY ROLLED AND PLACED

ON STAINLESS STEEL HOOK

STANDARD MANHOLE

LID & FRAME_



GENERAL NOTES:

1. TRAFFIC BEARING BOX

REQUIRED IN TRAFFIC AREAS. 2. ALL PIPE AND FITTINGS SHALL BE OF SIMILAR MATERIAL.

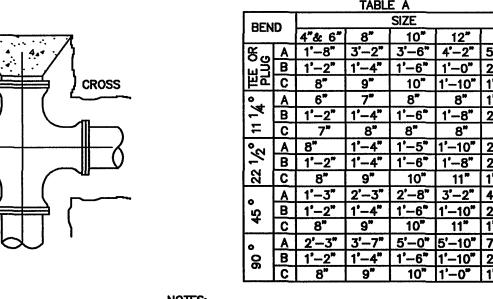
3. ALL PIPE SHALL BE OF SAME SIZE.

STACK WYE. (EXCEPT AS NOTED)

LATERALS SHALL BE THREE (3') FEET

5. MINIMUM COVER FOR ALL SEWER

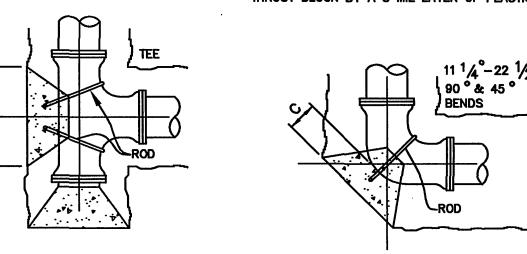
4. NO BENDS ARE ALLOWED IN THE LATERAL FROM THE MAIN TO THE CLEAN-OUT



NOTES:

- 1. ALL B&C DIMENSIONS TO BE AS REQUIRED TO REACH UNDISTURBED EARTH BUT NOT LESS THAN LISTED ON THRUST BLOCK TABLE.
- 2. CAST-IN-PLACE CONCRETE SHALL BE IN ACCORDANCE
- WITH THE PCI TYPE 1 PORTLAND, CEMENT 3,000 PSI. 3. DIMENSIONS A, B, C, APPLY TO ALL BEND CONDITIONS SHOWN.
- 4. INSTALL PLUGS AT ALL RUNS OR BRANCHES DISCONTINUED FOR FUTURE SERVICES.
- 5. ALL BENDS, TEES, PLUGS, FITTINGS OR OTHER SIGNIFICANT CHANGES SHALL BE BRACED WITH POURED CONCRETE THRUST BLOCK AS SHOWN ON THIS DETAIL.
- 6. ALL PLUGS SHALL BE SEPARATED FROM THE CONCRETE THRUST BLOCK BY A 5 MIL LAYER OF PLASTIC SHEETING.

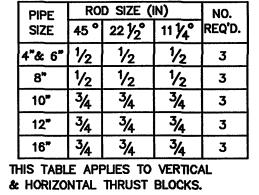
DETAIL NUMBER: A&E_SS15

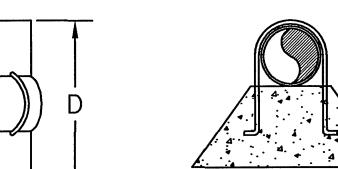


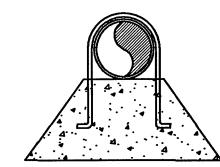
FOR HORIZONTAL ALIGNMENT

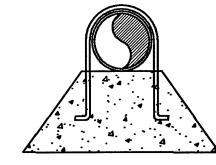
HORIZONTAL THRUST BLOCK

F 3'-0" 4'-0" 4'-6" 4'-9" 6'-6"









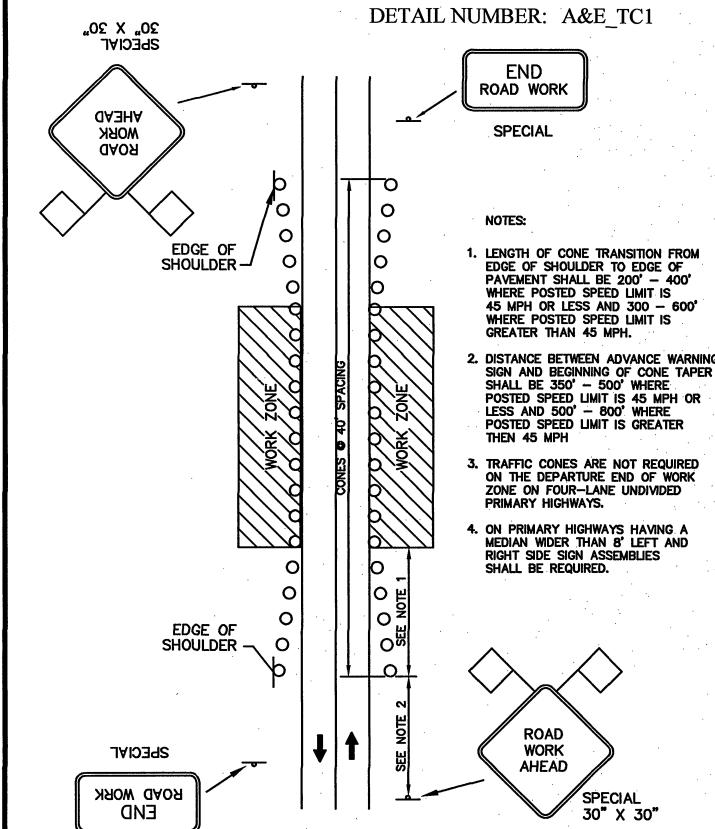
ROD DETAIL



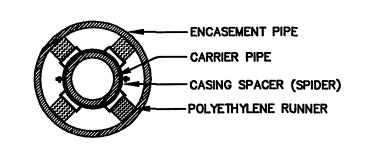
- 1. ALL POURED CONCRETE SHALL BE LAID ON UNDISTURBED EARTH AFTER **EXCAVATION ACCORDING TO DIMENSIONS** INDICATED ON THRUST BLOCK DIMENSION TABLE OR IT SHALL BE LAID THE FULL WIDTH OF TRENCH FROM UNDISTURBED WALL BUT NOT LESS THAN LISTED ON THRUST BLOCK TABLE.
- 2. CAST IN PLACE CONCRETE SHALL BE IN ACCORDANCE WITH THE PCI TYPE 1 PORTLAND CEMENT, 3,000 PSI.
- 3. ALL RODS TO BE 316 OR 304 STAINLESS STEEL.

FOR VERTICAL ALIGNMENT

VERTICAL THRUST BLOCK

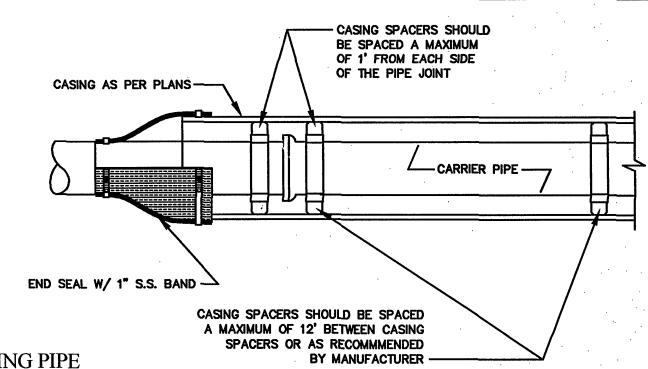


TYPICAL TRAFFIC CONTROL WORK BETWEEN PAVEMENT AND DITCH LINE ON PRIMARY HIGHWAYS



ALTERNATE PIPE SUPPORT IN CASING PIPE: 18" LONG TREATED TIMBER SKIDS OF APPROPRIATE WIDTH SO THAT BELLS OR FLANGES DO NOT REST ON CASING WITH MORE THAN 3/4" FREE PLAY. SKIDS TO BE PLACED AT 4"-0" O.C. AND SECURED WITH 2"x 1/4" GALV. STEEL STRAPS OR 1" S.S. BANDS. SOAP-BASED LUBRICANT MAY BE USED FOR SLIDING OF SKID WITH DUCTILE IRON PIPE AND FLAX-BASED LUBRICANT MAY BE USED FOR SLIDING OF SKID WITH PVC PIPE.

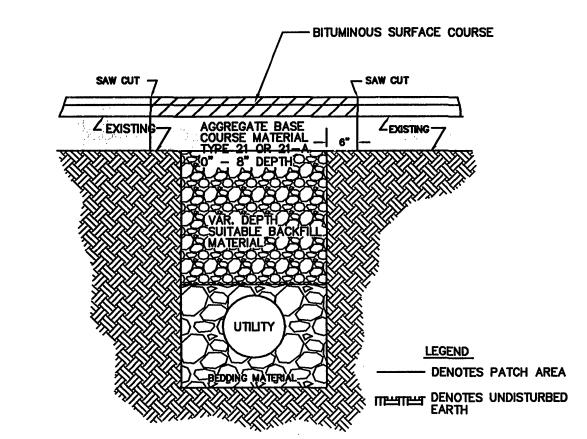
NOTE: A 1" DRAIN WILL BE REQUIRED ON THE LOWER END OF THE CASING IF THE CASING ENDS ARE SEALED WITH MORTER AND BRICK.



PIPE SUPPORT IN CASING PIPE

PRIVATE PROPERTY STATE RIGHT-OF-WAY OR EASEMENT LINE BRASS OR CAST IRON CAP WITH 1"
COUNTERSUNK HEAD TURNED UPWARD. FINISHED GRADE -PLASTIC BODY CLEAN-OUT - CLEAN-OUT TO EXTEND ABOVE GROUND A MIN. OF 3 FEET DURING INSTALLATION OF MAIN LINE. PLUMBER SHALL CUT STACK TO FIN. GRADE & REPLACE C.O. & PLUG WHEN PRIVATE FORCE MAIN IS CONNECTED TO LATERAL. 4" CLEANOUT STACK ----TEE, WYE, TEE/WYE OR COMBINATION OF WYE & PRIVATE FORCE MAIN -45 BEND FITTINGS SHALL BE SIZED AS PIPES REQUIRE. LONG SWEEP 90° BEND 1/4" PER 1'-0"-MIN. GRADE TEE, WYE, TEE/WYE OR COMBINATION OF WYE & 45° BEND FITTINGS SHALL BE SIZED AS REQUIRED

PRIVATE FORCE MAIN TO GRAVITY LATERAL CONNECTION



NOTES:

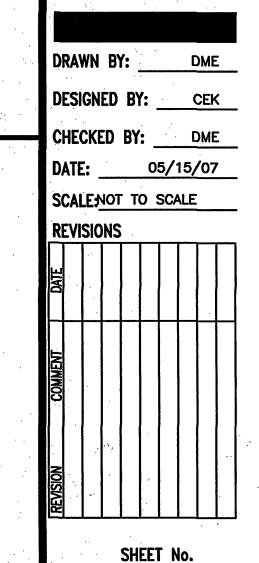
1. SURFACE AND BASE REPLACEMENT WILL GENERALLY BE REQUIRED TO MATCH EXISTING ASPHALT LAYERS AND SHALL BE COMPACTED IN LIFTS ACCORDING TO VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.

2. AGGREGATE BASE MATERIAL SHALL BE REPLACED TO A DEPTH GREATER THAN EXISTING STONE BASE TO ENSURE LOAD BEARING CAPACITY OF CUT RELATED TO UNDISTURBED EARTH AREAS. AGGREGATE BASE SHALL BE COMPACTED ACCORDING TO VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.

3. BEDDING MATERIAL SHALL BE ACCORDING TO REQUIREMENT OF EACH UTILITY (GENERALLY FROM BOTTOM OF REPAIR DITCH TO SIX INCHES ABOVE PIPE WITH MINIMUM OF FOUR INCHES BELOW PIPE).

4. SAW CUT TO BE MADE WITH MECHANICAL SAW AND SIDES TO BE TACKED WITH BITUMINOUS MATERIAL TYPE RC-250 OR EQUAL.

PAVEMENT CUTTING & REPLACEMENT



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