

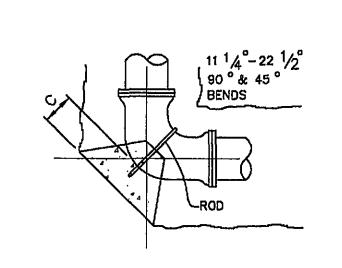
- THRUST BLOCK TABLE.

 2. CAST—IN—PLACE CONCRETE SHALL BE IN ACCORDANCE WITH THE PC! TYPE 1 PORTLAND CEMENT 3,000 PS!.
- 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
- THRUST BLOCK AS SHOWN ON THIS DETAIL.

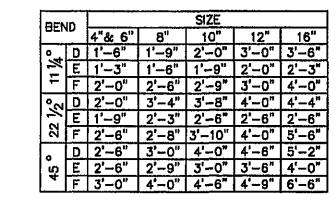
 6. ALL PLUGS SHALL BE SEPARATED FROM THE CONCRETE

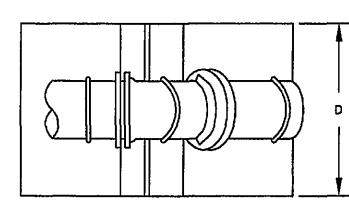
THRUST BLOCK BY A 5 MIL LAYER OF PLASTIC SHEETING.

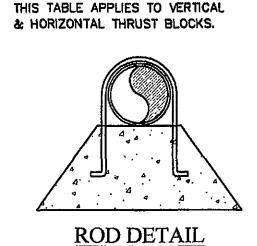
CHANGES SHALL BE BRACED WITH POURED CONCRETE



HORIZONTAL THRUST BLOCK
FOR HORIZONTAL ALIGNMENT





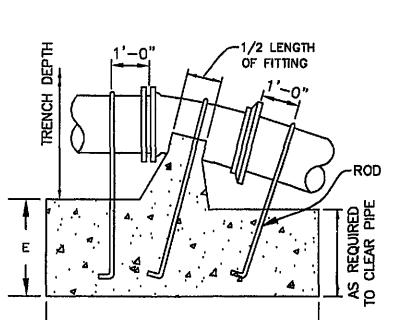


12" 3/4 3/4 3/4 3

16" 34 34 34 3

ROD SIZE (IN) NO.

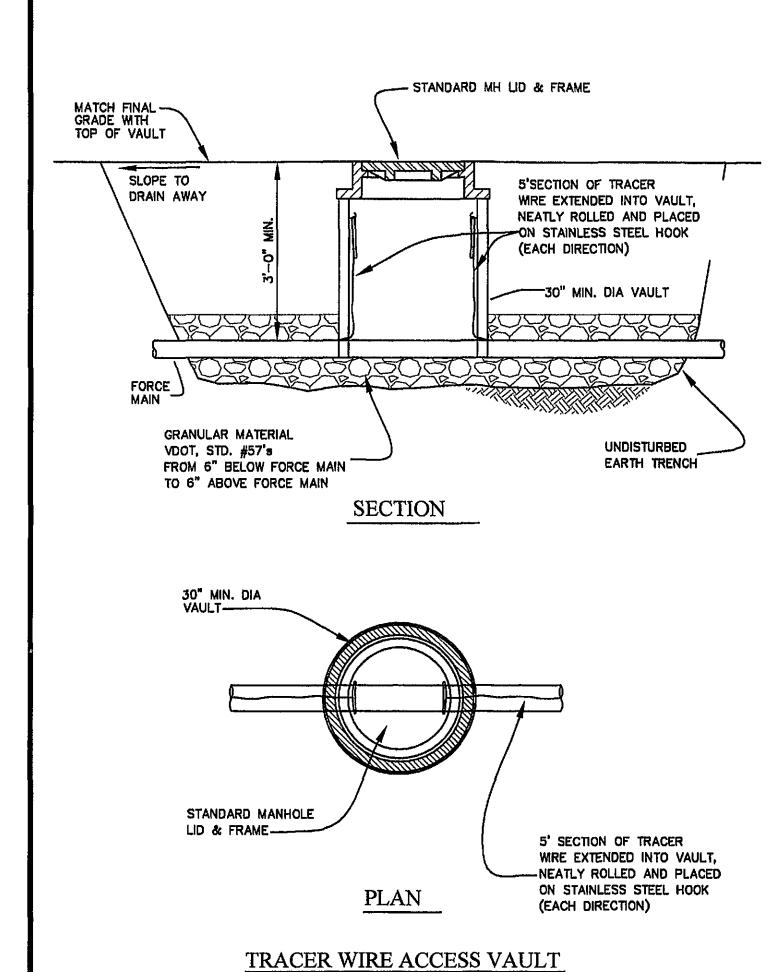
45 ° 22 1/2° 11 1/4° REQ'D.



1. ALL POURED CONCRETE SHALL BE PLACED ON UNDISTURBED EARTH AFTER EXCAVATION ACCORDING TO DIMENSIONS INDICATED ON THRUST BLOCK DIMENSION TABLE OR IT SHALL BE PLACED THE FULL WIDTH OF TRENCH FROM UNDISTURBED WALL BUT NOT LESS THAN LISTED ON THRUST BLOCK TABLE.

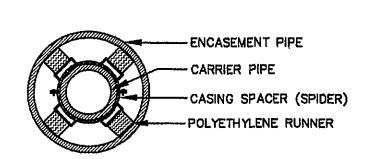
- 2. CAST IN PLACE CONCRETE SHALL BE IN ACCORDANCE WITH THE PCI TYPE 1 PORTLAND CEMENT, 3,000 PSI.
- 3. ALL RODS TO BE 316 OR 304 STAINLESS STEEL.





NO SCALE

30" X 30"

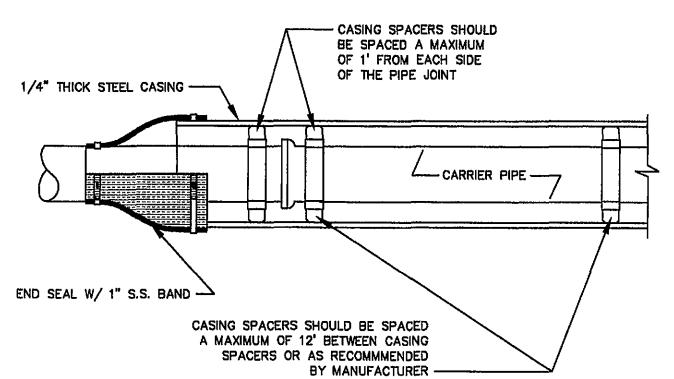


ALTERNATE PIPE SUPPORT IN CASING PIPE:

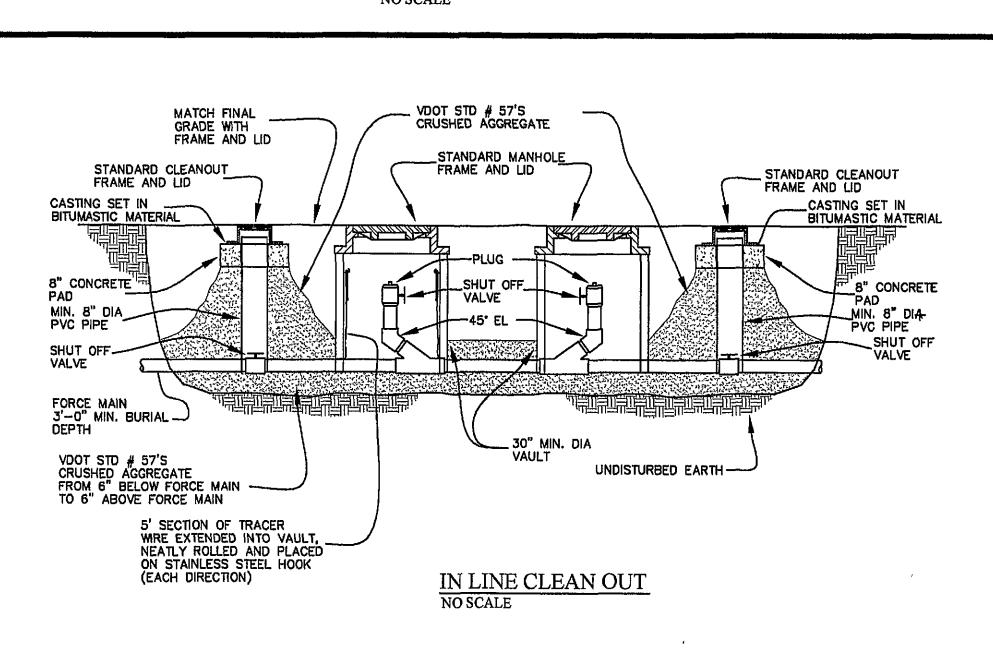
18" LONG TREATED TIMBER SKIDS OF APPROPRIATE WIDTH SUCH THAT BELLS OR FLANGES DO NOT REST ON CASING WITH MORE THAN 3/4" FREE PLAY. SKIDS TO BE PLACED AT 4'-0" O.C. AND SECURED WITH 2"x 1/4" GALV. STEEL STRAPS OR 1" S.S. BANDS. SOAP-BASED LUBRICANT MAY BE USED FOR SLIDING OF SKID WITH DUCTILE IRON PIPE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

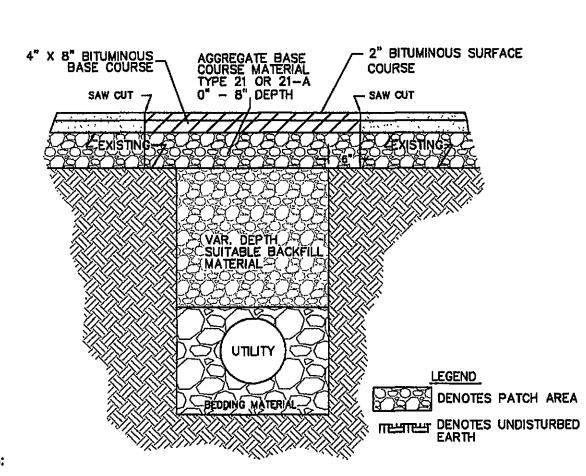
NOTE: 1. A 1" DRAIN WILL BE REQUIRED ON THE LOWER END OF THE CASING IF THE CASING ENDS ARE SEALED WITH MORTER AND BRICK.

2. ALL STEEL ENCASEMENT PIPES WITHIN THE VDOT RIGHT OF WAY MUST BE IN ACCORDANCE WITH "2001 VDOT ROAD AND BRIDGE STANDARDS. CONCRETE AND STEEL ENCASEMENT PIPE (STD. 1404.1)



PIPE SUPPORT IN CASING PIPE NO SCALE





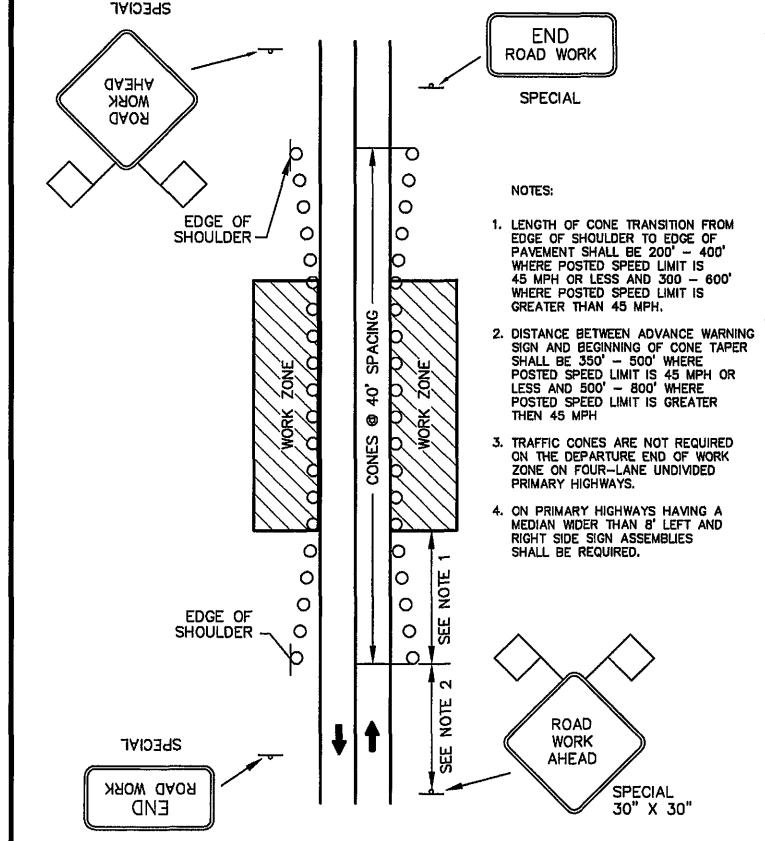
1. SURFACE AND BASE REPLACEMENT WILL GENERALLY BE REQUIRED TO MATCH EXISTING ASPHALT LAYERS AND SHALL BE COMPACTED IN LIFTS ACCORDING TO VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.

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 NO SCALE



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

NO SCALE

DANIEL, M. EARLY No. 031787

POR SIONAL ENGLISH

AGS

AGS

DESIGN

ENGINEERING - SURVEYING

LANDSCAPE ARCHITECTURE

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CONSTRUCTION MANAGEMENT

Z

LAKEWATCH PLANTATION
WATER AND SEWER EXTENSION
FRANKLIN COUNTY, VIRGINIA

DRAWN BY: CEK
DESIGNED BY: CEK
CHECKED BY: DME
DATE: 31 AUG. 2006
JOB NUMBER: 06090a

REVISIONS:
No. 1 8/31/06
REV. PER SMLGP
No. 2

No. 3

SHEET NO.: **C4.2**

FORCEMAIN DETAILS