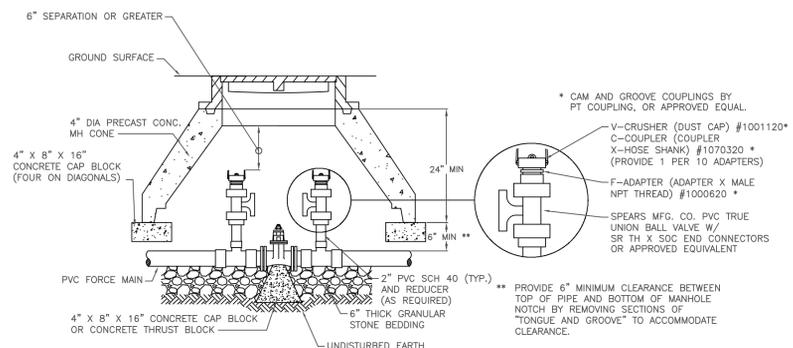
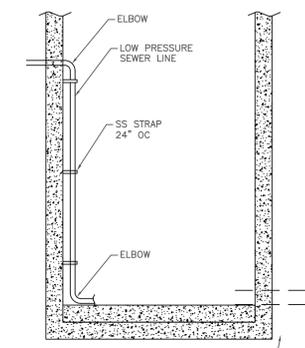


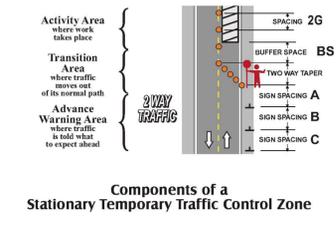
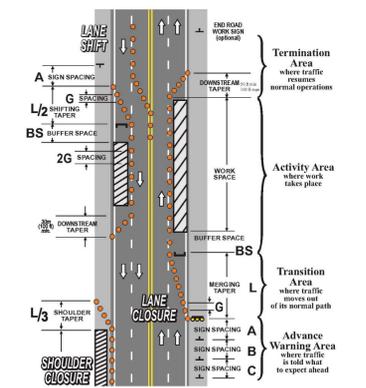
SERVICE CONNECTION  
NOT TO SCALE



IN-LINE FLUSHING CONNECTION (IN-LINE FC)  
NOT TO SCALE



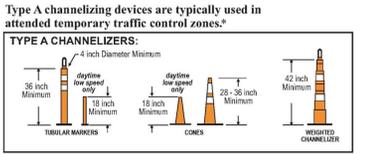
TYPICAL DROP CONNECTION  
LPSS IN EXISTING MANHOLE  
NOT TO SCALE



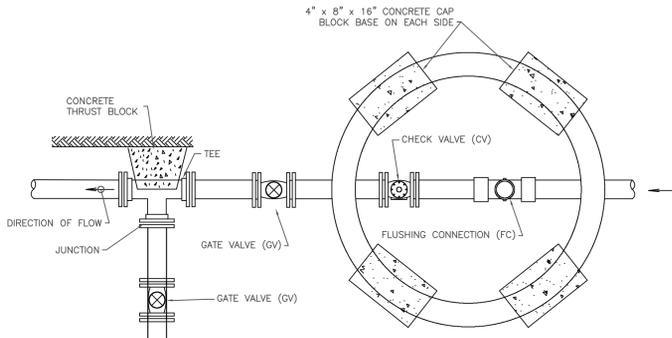
- NOTES:
- CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL.
  - FOR LANE CLOSURES ON TN STATE ROUTES, A TRAFFIC CONTROL IS REQUIRED AND MUST BE SUBMITTED TO TDOT.
  - ALL TRAFFIC CONTROL SET-UPS SHALL BE APPROVED BY THE CITY (LOCAL STREETS) AND BY TDOT (STATES ROUTES).
  - ALL TRAFFIC CONTROL SET-UPS SHALL COMPLY WITH ALL MUTCD REQUIREMENTS AND GUIDELINES.

**Temporary Traffic Control Distance Charts**

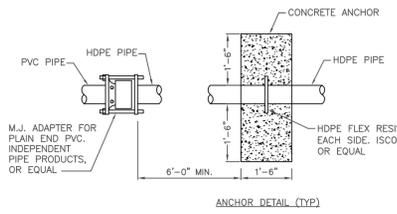
Posted Speed Limit Prior to Work Starting (mph)	Advance Warning Sign Spacing (A, B, C) (ft)	Taper Length (L) (ft)			Shifting Taper (L/2) (ft)	Typical Shoulder Taper (L/3) (ft)
		(L1)	(L2)	(L3)		
0-30	100	500	500	500	250	100
35-40	150	500	500	500	325	175
45-50	250	500	500	500	400	300
55	350	500	500	500	475	350
60-65	450	500	500	500	550	425
70-75	550	500	500	500	625	500



\* See the MUTCD, Part 6F for more details on application restrictions.

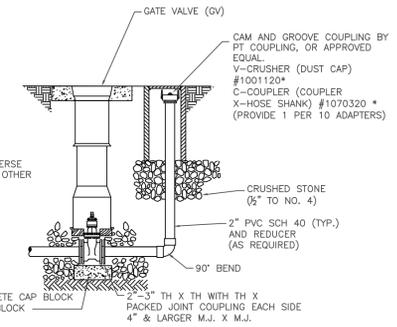


PLAN

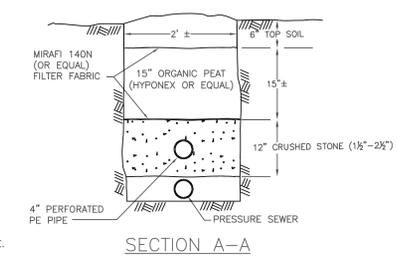


- NOTES:
- ALLOW HDPE PIPE TO RELAX FOR 48 HOURS (MIN.) BEFORE INSTALLING ANCHORS AND COUPLING TO PVC.
  - MECHANICALLY RESTRAIN ADJOINING PVC PIPE FOR DISTANCE REQUIRED FOR A DEAD END LINE.

DIRECTIONAL BORE CROSSING ANCHOR AND PIPE TRANSITION DETAIL  
NOT TO SCALE

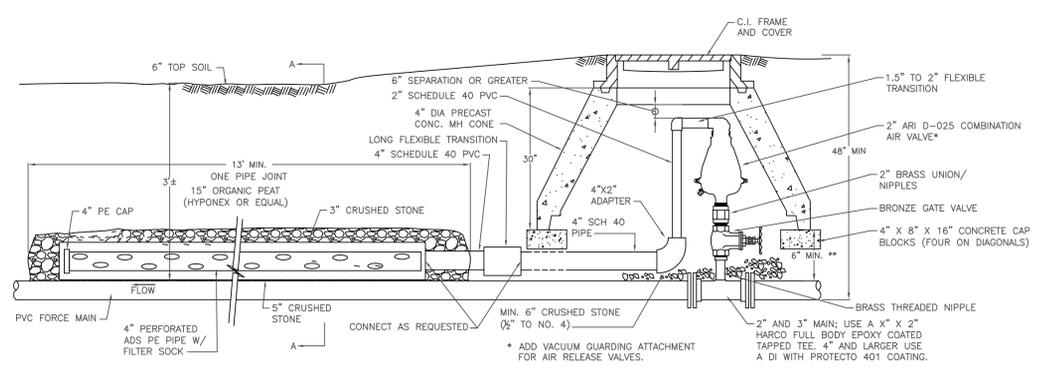


TERMINAL FLUSHING CONNECTION (TFC)  
NOT TO SCALE



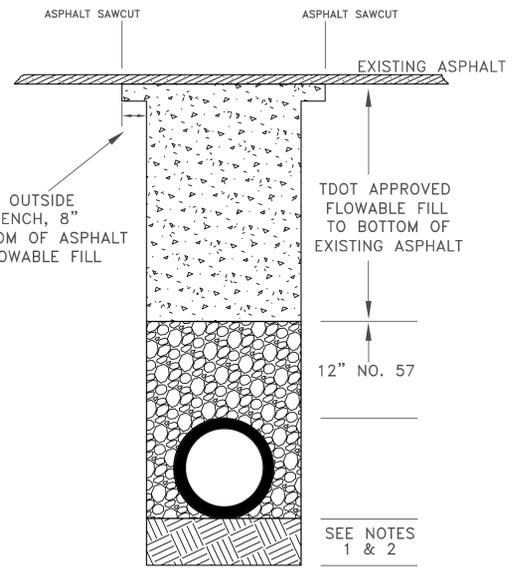
SECTION A-A

- NOTES:
- PLACE DOWN STREAM OF AIR/VACUUM VALVE.
  - LOCATE ENTIRELY WITHIN MAINTAINED RIGHT-OF-WAY.



SEWAGE COMBINATION AIR VALVE WITH ODOR CONTROL SOIL BED  
(TO BE CONNECTED TO AIR RELEASE OR COMBINATION AIR VALVES)  
NOT TO SCALE

TRAFFIC CONTROL (CITY & STATE ROADS)  
NOT TO SCALE



- NOTES:
- UNDISTURBED EARTH FOR WATER UNLESS UNDERCUTTING IS REQUIRED. IF REQUIRED, CONTRACTOR SHALL EXCAVATE TO SOLID EARTH AND BACKFILL AND COMPACT IN 6" LIFTS TO BOTTOM OF PIPE ELEVATION.
  - FOR SEWER INSTALLATION, THE PIPE SHALL BE BEDDED ON 6" OF COMPACTED NO. 57 STONE.
  - ALL PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
  - ASPHALT REPLACEMENT SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

FLOWABLE FILL (CITY & STATE ROADS)  
NOT TO SCALE

LOW PRESSURE SEWER GENERAL NOTES

- NOTES:
- USE DUCTILE IRON M.J. FITTINGS ON ALL 3-INCH AND LARGER PVC MAINS.
  - ALL IN-LINE GATE VALVES SHALL BE DUCTILE IRON WITH PROTECTO 401 COATING. USE MECHANICALLY RESTRAINED M.J. X M.J. ENDS FOR VALVES 3-INCH AND LARGER. USE PUSH ON ENDS AND MECHANICAL RESTRAINTS (MAY REQUIRE DUC LUGS OR 90° EYE BLOTS AND EXTENDED RODS TO ALLOW RESTRAINING VALVE BETWEEN PIPE SECTIONS) FOR VALVES LESS THAN 3-INCH.
  - CONTRACTOR MAY NEED TO KEEP LOW PRESSURE SEWER DEEPER AS HE APPROACHES AIR RELEASE VALVE TO ACCOMMODATE THE HEIGHT OF THE AIR RELEASE VALVE.