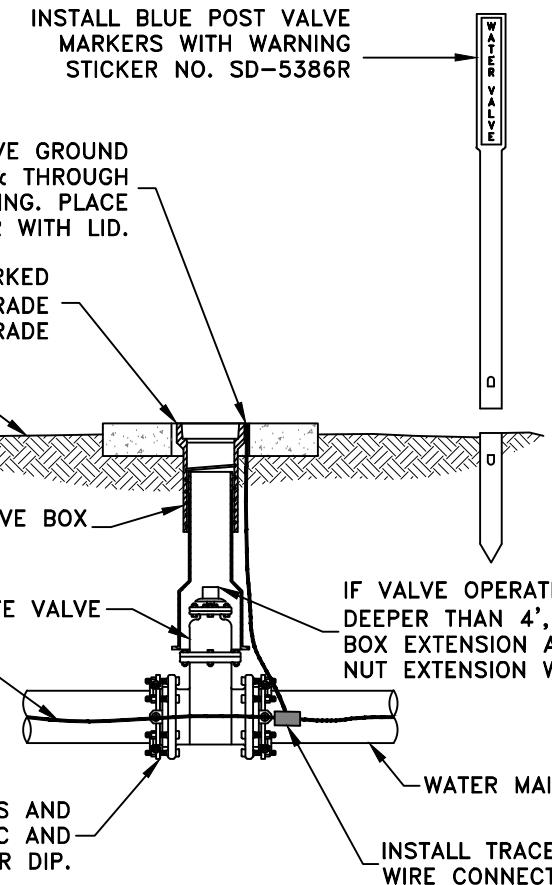
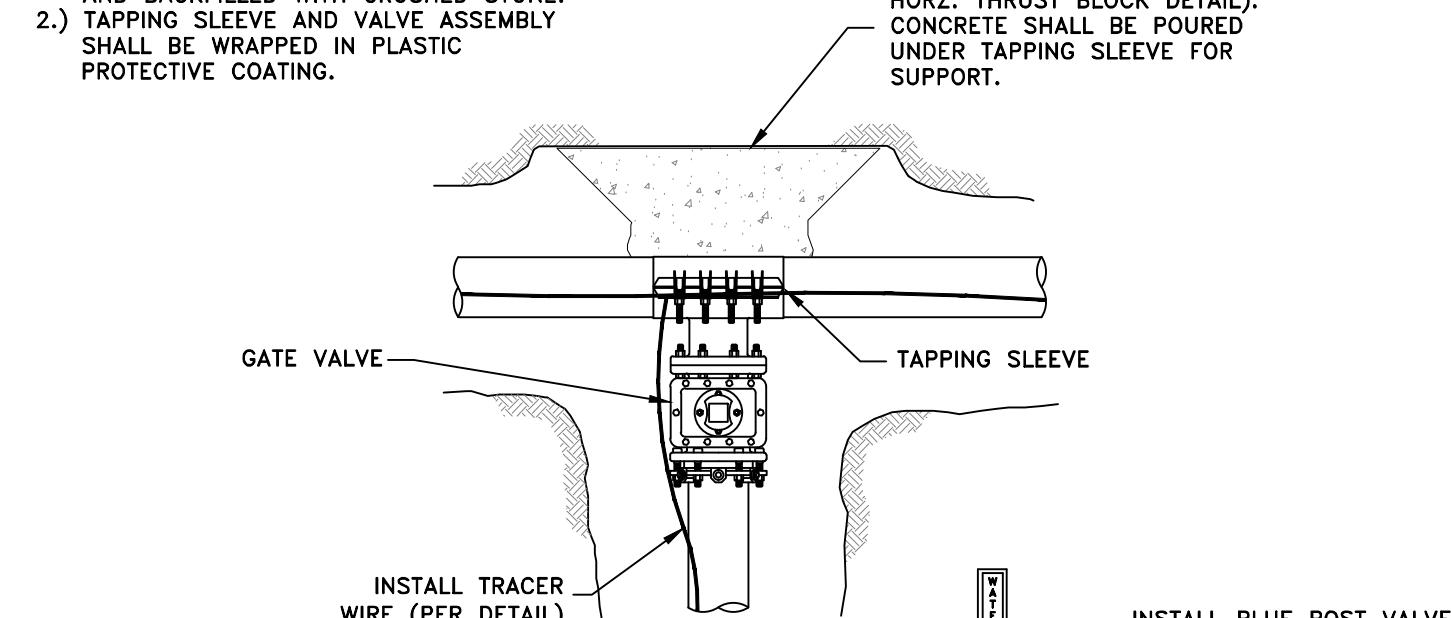


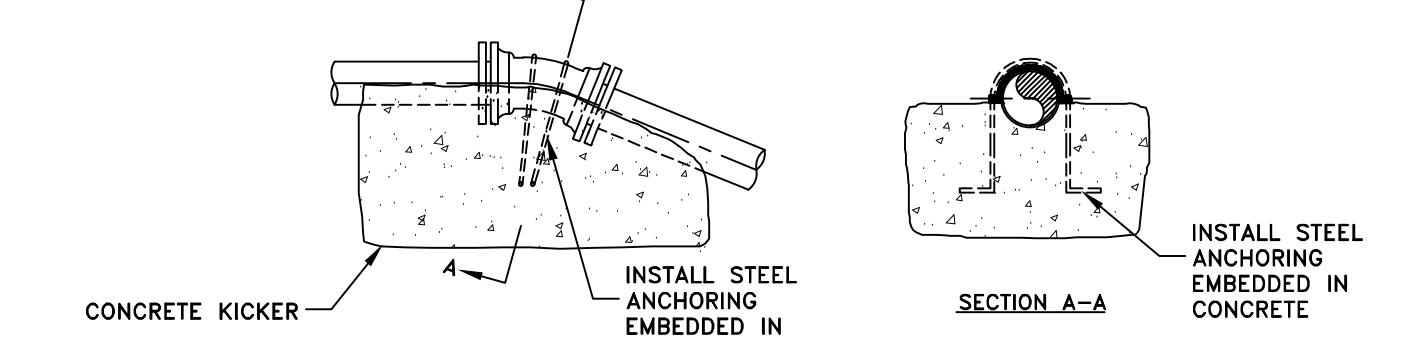
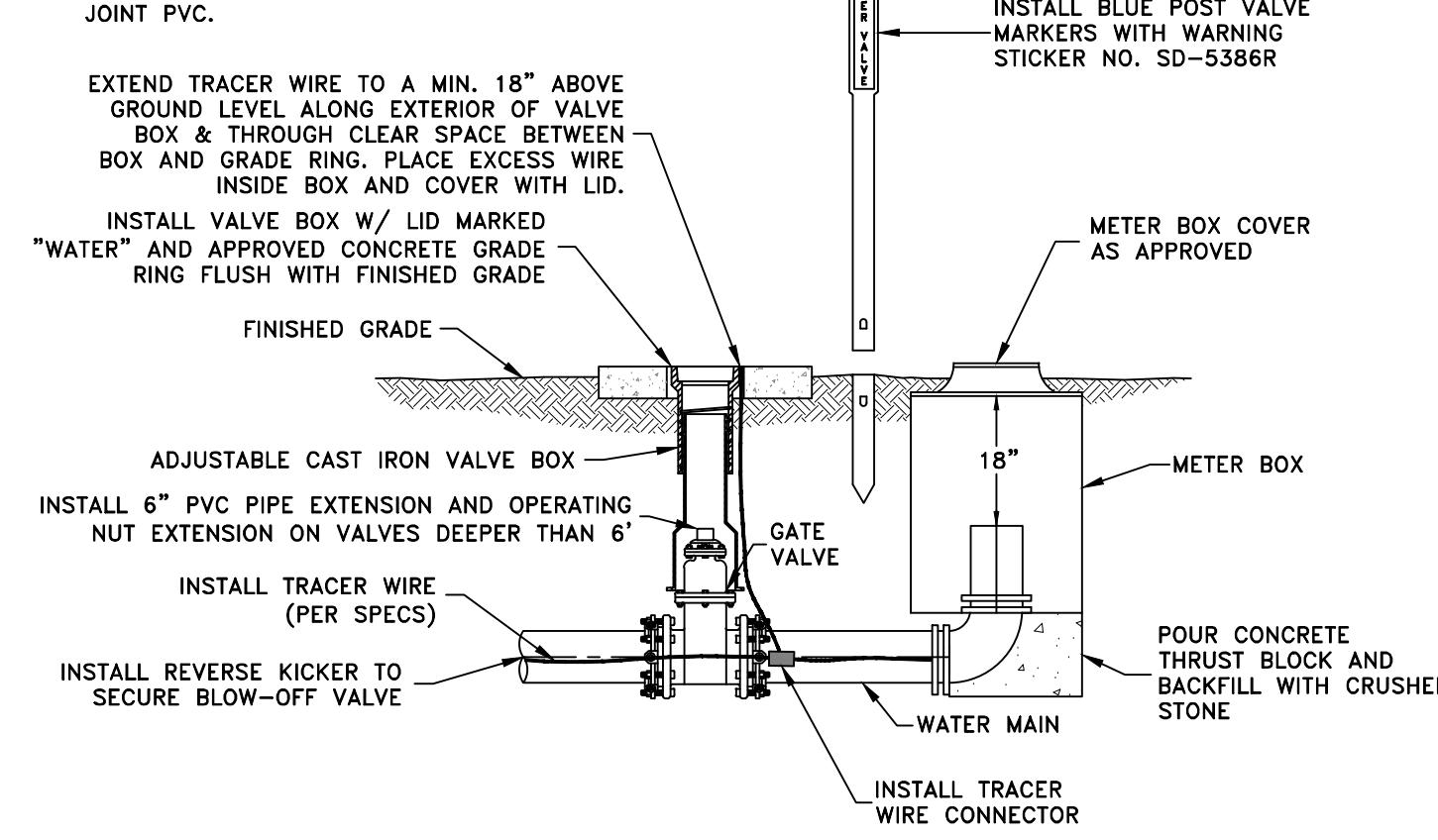
NOTES:
1.) VALVE INSTALLATIONS SHALL BE BEDDED AND BACKFILLED WITH CRUSHED STONE.



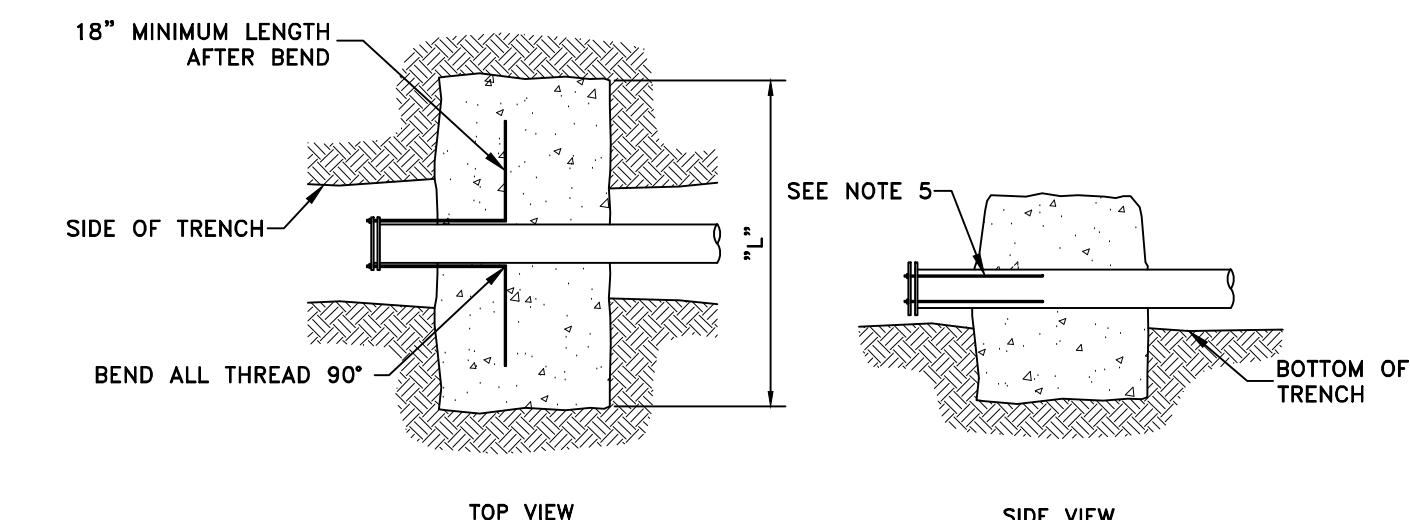
NOTES:
1.) VALVE INSTALLATIONS SHALL BE BEDDED AND BACKFILLED WITH CRUSHED STONE.
2.) TAPPING SLEEVE AND VALVE ASSEMBLY SHALL BE WRAPPED IN PLASTIC PROTECTIVE COATING.



NOTES:
1.) BLOW-OFF ASSEMBLY SHALL BE BEDDED AND BACKFILLED WITH CRUSHED STONE.
2.) BLOW-OFF ASSEMBLY ELBOW SHALL BE WRAPPED IN PLASTIC PROTECTIVE COATING UNLESS ELBOW IS SLIP-ON JOINT PVC.



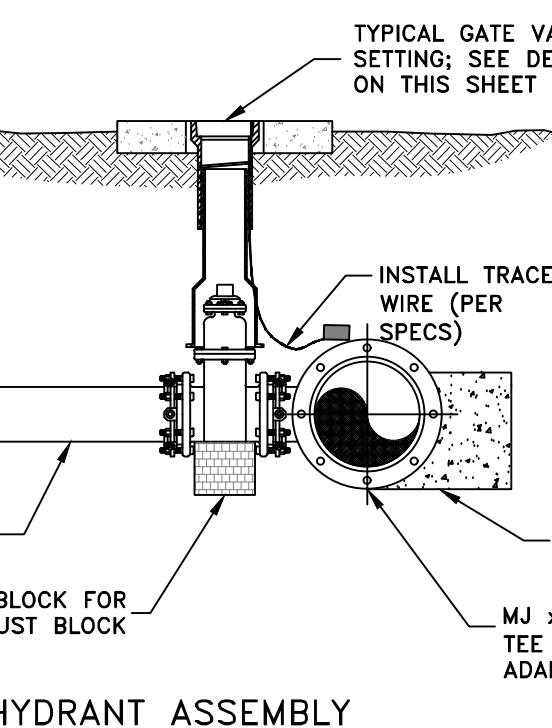
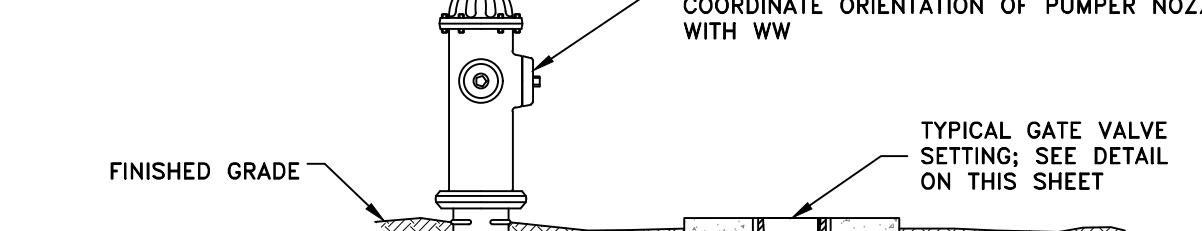
VERTICAL BEND PIPE ANCHOR DETAIL



CONCRETE REVERSE KICKER (DEADMAN) DETAIL

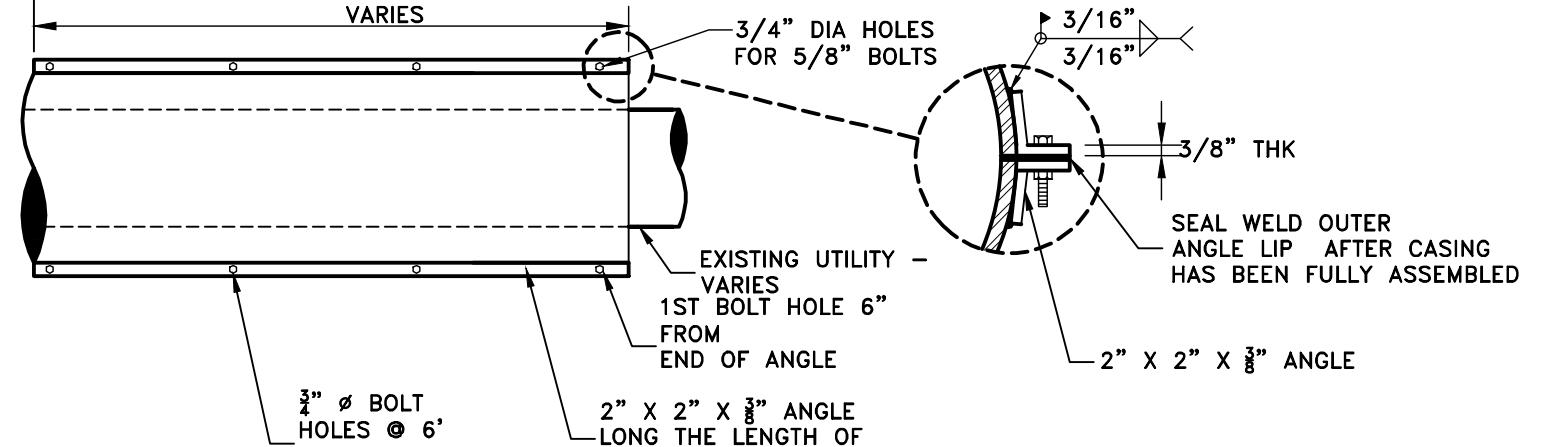
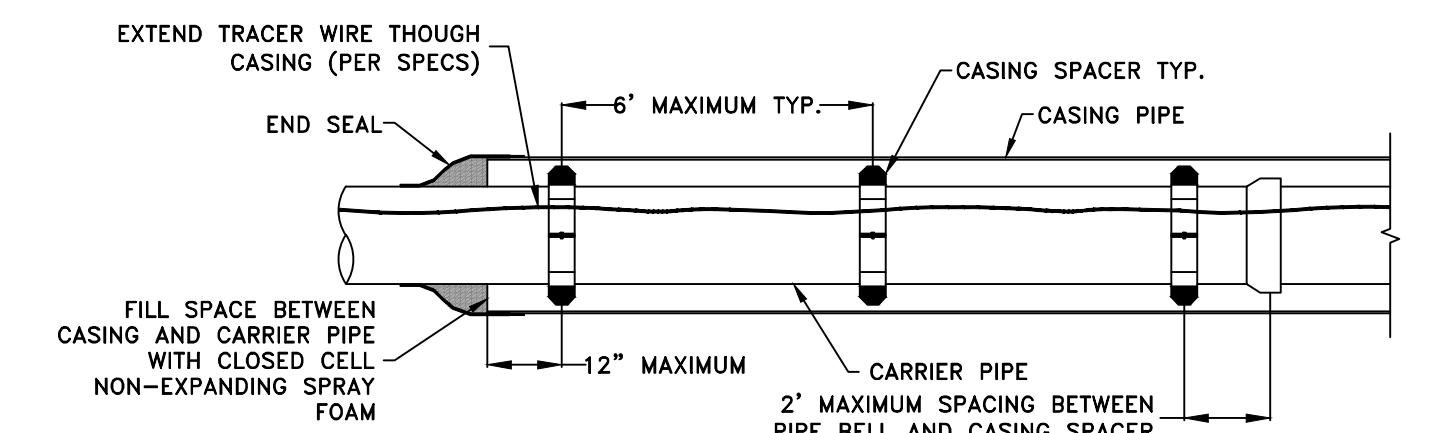
NOTES:
1.) HYDRANT ASSEMBLY SHALL BE BEDDED AND BACKFILLED WITH CRUSHED STONE.
2.) TEE OR TAPPING SLEEVE AND VALVE ASSEMBLY SHALL BE WRAPPED IN PLASTIC PROTECTIVE COATING.
3.) FOR INSTALLATIONS REQUIRING A LONGER HYDRANT LEAD, SOLID TEE ADAPTER WILL BE REPLACED WITH DIP LENGTH AS REQUIRED AND RESTRAINED WITH MEGALUG OR ROMAC GRIP RING.
4.) IF MULTIPLE JOINTS OF PIPE ARE PROPOSED BETWEEN THE VALVE AND HYDRANT ASSEMBLY, RESTRAINED FIELD LOCK GASKET SHALL BE UTILIZED AT EACH BELL TO RESTRAIN THE PIPE.

FINAL BONNET COLOR TO BE PAINTED ACCORDING TO FINAL FLOW CAPACITY OF HYDRANT



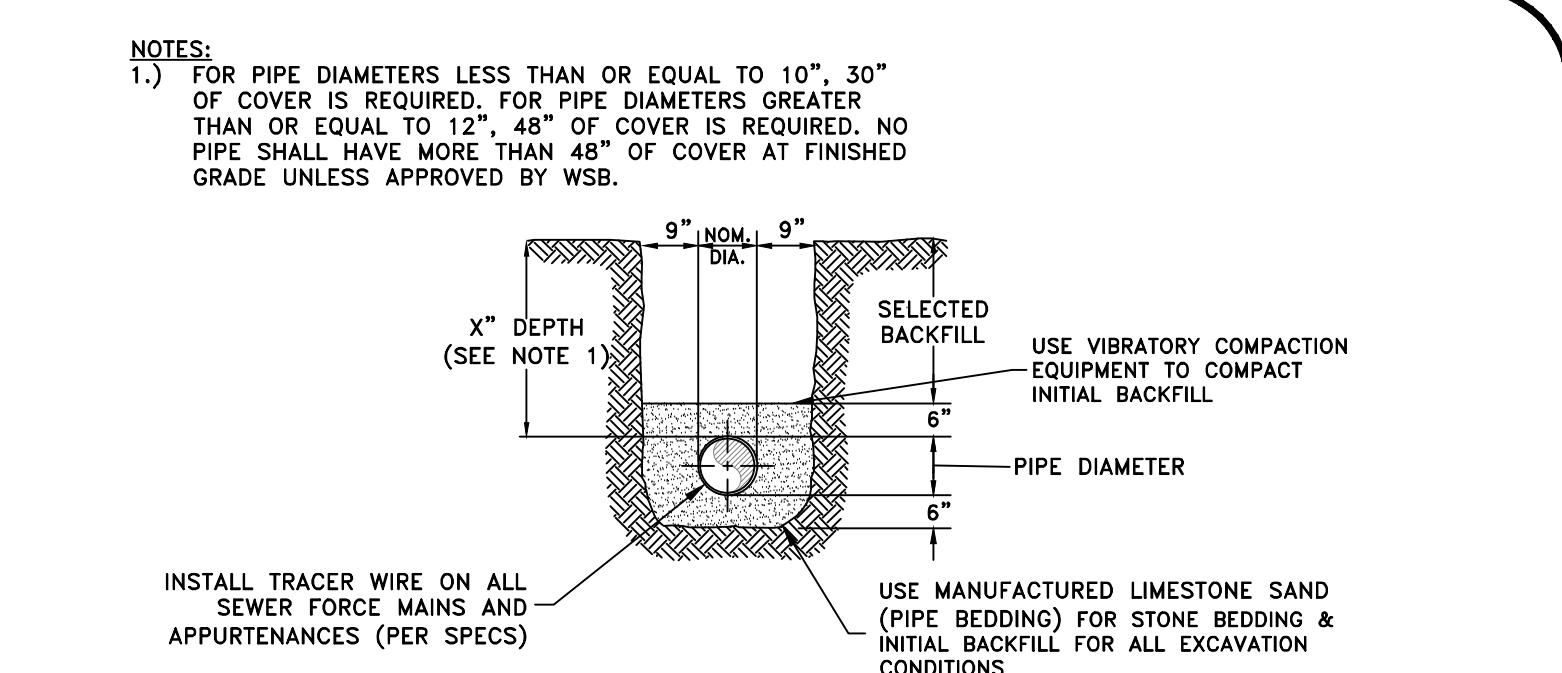
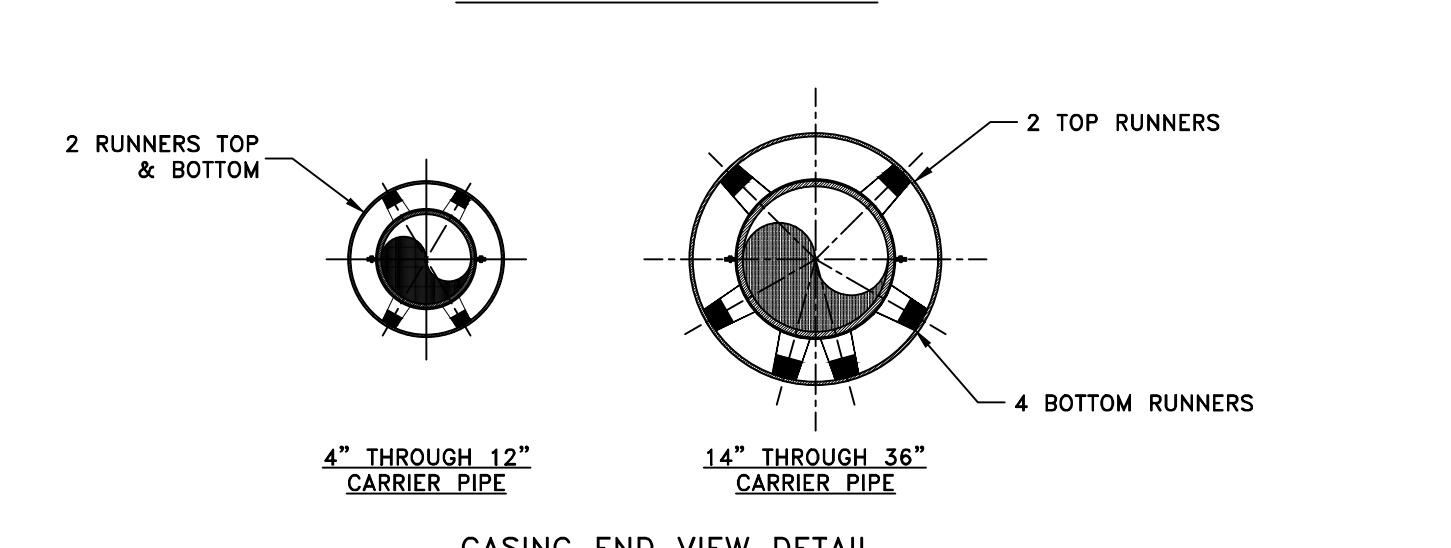
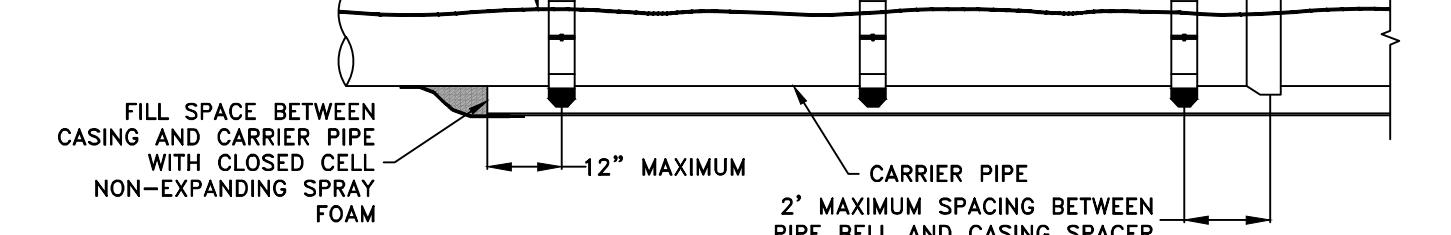
NOTES:
1.) HYDRANT ASSEMBLY SHALL BE BEDDED AND BACKFILLED WITH CRUSHED STONE.
2.) TEE OR TAPPING SLEEVE AND VALVE ASSEMBLY SHALL BE WRAPPED IN PLASTIC PROTECTIVE COATING.
3.) FOR INSTALLATIONS REQUIRING A LONGER HYDRANT LEAD, SOLID TEE ADAPTER WILL BE REPLACED WITH DIP LENGTH AS REQUIRED AND RESTRAINED WITH MEGALUG OR ROMAC GRIP RING.
4.) IF MULTIPLE JOINTS OF PIPE ARE PROPOSED BETWEEN THE VALVE AND HYDRANT ASSEMBLY, RESTRAINED FIELD LOCK GASKET SHALL BE UTILIZED AT EACH BELL TO RESTRAIN THE PIPE.

TAPPING SLEEVE AND VALVE INSTALLATION



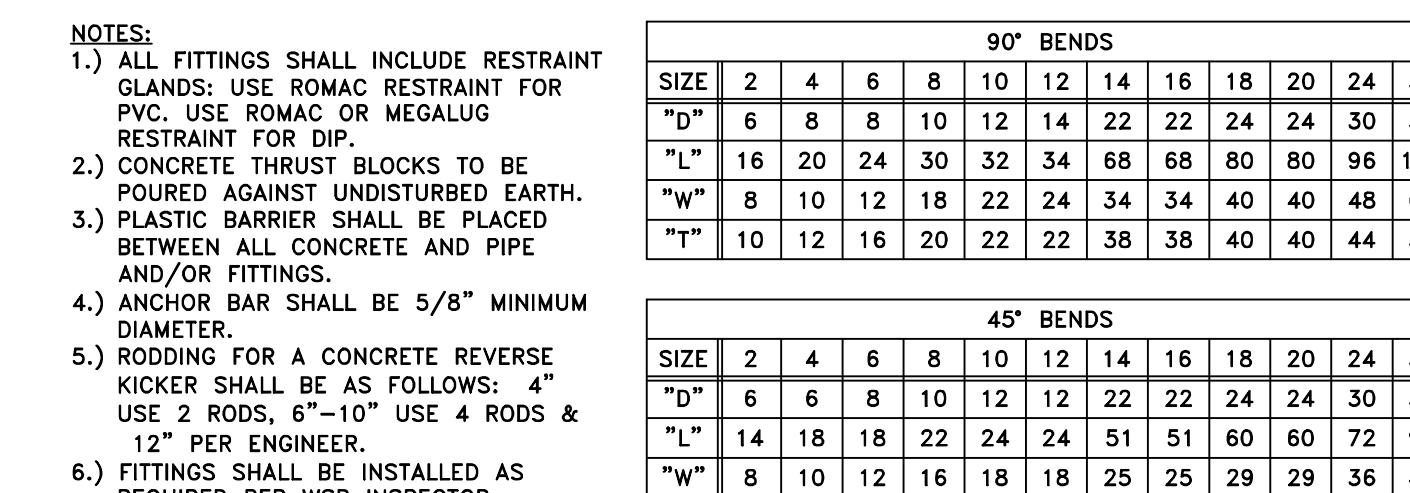
NOTES:
1.) SPLIT CASINGS ARE INTENDED FOR OPEN CUT INSTALLATIONS ONLY AND PRIMARILY FOR PROTECTING EXISTING UTILITIES.
2.) SPLIT CASING WILL NOT BE ACCEPTABLE FOR BORE AND JACK INSTALLATIONS.
3.) CASING SPACERS SHALL BE PROVIDED AS SPECIFIED FOR TYPICAL CASING INSTALLATIONS.
4.) SIZING AND SPACER CONFIGURATION PER TYPICAL CASING DETAIL.

TYPICAL SPLIT CASING DETAIL



TYPICAL STONE ENVELOPE - WATER

NOTES:
1.) FOR PIPE DIAMETERS LESS THAN OR EQUAL TO 10", 30" OF COVER IS REQUIRED, FOR PIPE DIAMETERS GREATER THAN OR EQUAL TO 12", 48" OF COVER IS REQUIRED. NO PIPE SHALL HAVE MORE THAN 48" OF COVER AT FINISHED GRADE UNLESS APPROVED BY WSB.



NOTES:

1.) FITTINGS SHALL INCLUDE RESTRAINT GLANDS; USE MEGALUG RESTRAINT FOR PVC; USE ROMAC OR MEGALUG RESTRAINT FOR DIP.
2.) CONCRETE THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED EARTH.
3.) PLATE BARRIER SHALL BE PLACED BETWEEN ALL CONCRETE AND PIPE AND/OR FITTINGS.
4.) ANCHOR BAR SHALL BE 5/8" MINIMUM DIAMETER.
5.) RODDING FOR A CONCRETE REVERSE KICKER SHALL BE AS FOLLOWS: 4" USE 2 RODS, 6"-10" USE 4 RODS & 12" PER ENGINEER.
6.) FITTINGS SHALL BE INSTALLED AS REQUIRED PER WSB INSPECTOR.

90° BENDS

SIZE	2	4	6	8	10	12	14	16	18	20	24	30
"D"	6	8	10	12	14	22	22	24	24	30	30	50
"L"	16	20	24	32	32	68	68	80	80	96	120	
"W"	8	10	12	18	22	34	34	40	40	48	60	
"T"	10	12	16	20	22	38	38	40	40	44	52	

45° BENDS

SIZE	2	4	6	8	10	12	14	16	18	20	24	30
"D"	6	6	8	10	12	12	22	22	24	24	30	30
"L"	14	18	18	22	24	51	51	60	60	72	90	
"W"	8	10	12	16	18	25	25	29	29	36	44	
"T"	10	12	16	18	18	38	38	40	40	44	52	

22 1/2° & 11 1/4° BENDS

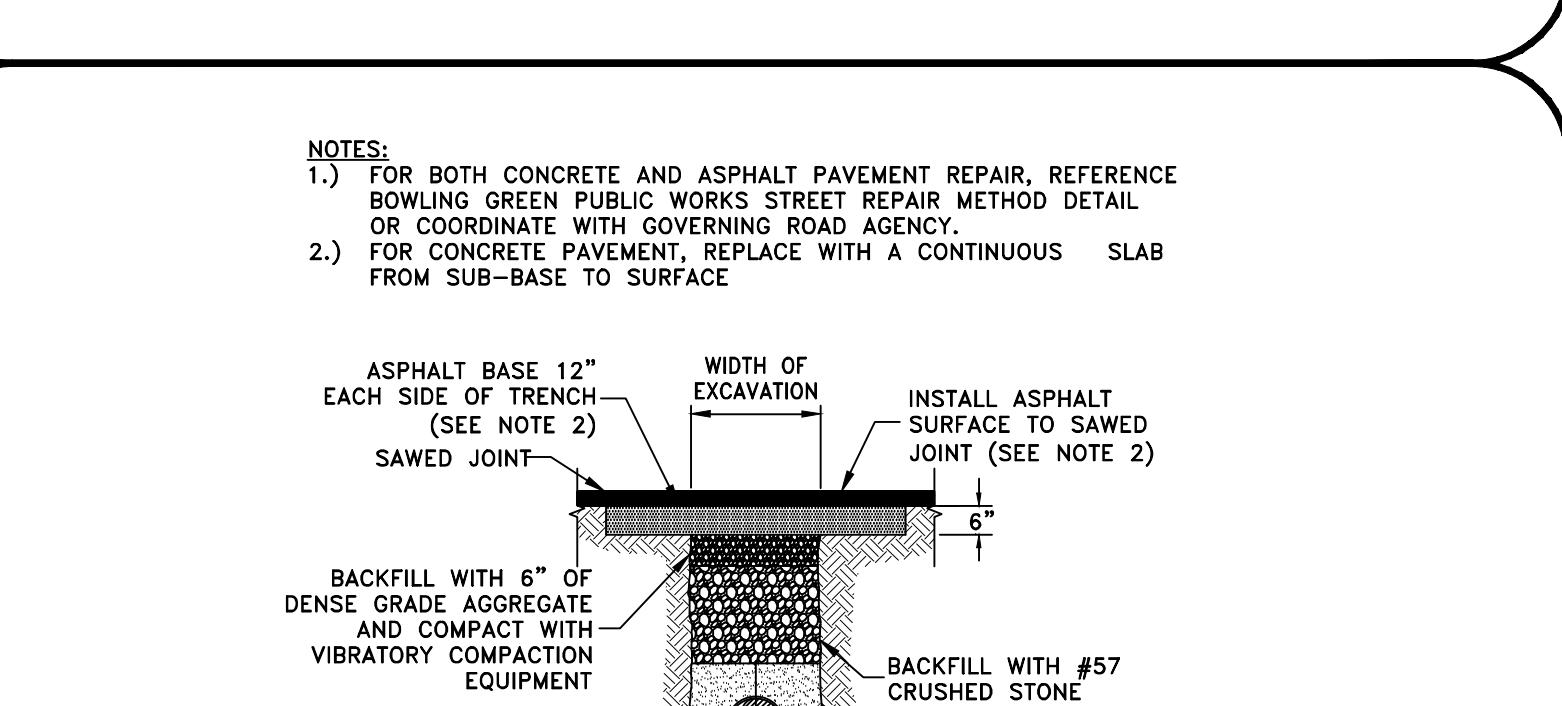
SIZE	2	4	6	8	10	12	14	16	18	20	24	30
"D"	6	10	14	18	20	22	22	24	24	30	30	50
"L"	20	24	28	28	32	36	42	42	54	66		
"W"	12	16	18	24	24	18	18	21	21	24	31	
"T"	12	14	16	18	18	38	38	40	40	44	52	

TEES, PLUGS & BLOWOFFS

SIZE	2	4	6	8	10	12	14	16	18	20	24	30
"D"	12	16	18	24	28	30	30	30	30	30	30	36
"L"	12	16	18	24	28	30	30	30	30	30	30	36
"W"	14	16	18	22	24	28	28	32	32	40	44	51
"T"	10	10	12	12	12	38	38	40	40	44	52	

*ALL DIMENSIONS ARE IN INCHES

MINIMUM CONCRETE BLOCKING FOR PIPE & FITTINGS



SURFACE RESTORATION
(FOR CROSSING OF ALL STREETS & HIGHWAYS)

