

ITEM MATERIALS:



- ① STEEL CASING
- ② CARRIER PIPE JOINT BELL, BEYOND
- ③ CARRIER PIPE WITH ALL JOINTS RESTRAINED
- ④ STAINLESS STEEL CASING SPACERS WITH UHMW POLYETHYLENE RUNNERS.
- ⑤ GROUT FITTING @ 8' O.C. PER DETAIL HEREON. FOR ALL CASINGS 24" IN DIA. AND LARGER, INSTALL ONE (1) COUPLING IN 6 O'CLOCK POSITION @ 8' O.C.; STAGGER COUPLINGS BETWEEN 10 O'CLOCK AND 2 O'CLOCK POSITIONS EVERY FOUR (4) LINEAR FEET ALONG CASING AXIS
- ⑥ 2" NPT THREADED STEEL PLUG WITH RAISED HEAD
- ⑦ 2" NPT STANDARD WEIGHT STEEL PIPE HALF COUPLING
- ⑧ EPDM CASING END SEAL, WITH STAINLESS STEEL WORM-SCREW BAND CLAMPS

NOTES:

1. Casing shall be installed by the bore, jack and/or tunnel method.
2. Size and thickness of casing shall be as shown in steel casing schedule hereon. For long bores or special situations greater wall thickness than shown in schedule may be required.
3. All steel casing pipe field joints shall be welded full-circumference.
4. Carrier pipe shall be pressured tested prior to sealing ends of casing.
5. Each end of casing shall be sealed with approved rubber casing end seals.
6. Backfill for casing in open cut shall be per EVWD Std. Dwg. W-121 or local agency having jurisdiction.
7. Number and placement of spacers on carrier pipe per Manufacturer's Specifications.
8. All carrier pipe joints inside the casing and a minimum 5' outside the steel casing shall be restrained.

STEEL CASING SCHEDULE		
NOMINAL CARRIER PER SIZE	MINIMUM CASING SIZE	MINIMUM WALL THICKNESS
6"	16" O.D.	5/16"
8"	16" O.D.	5/16"
10"	18" O.D.	5/16"
12"	20" O.D.	3/8"
16"	24" O.D.	3/8"
18"	30" O.D.	1/2"
24"	42" O.D.	1/2"

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STEEL CASING FOR WATER PIPE		
 EAST VALLEY WATER DISTRICT	EAST VALLEY WATER DISTRICT, ENGINEERING DEPARTMENT APPROVED BY:  JEFF NOELTE, P.E. 67924 DIRECTOR OF ENGINEERING & OPERATIONS	EVWD STD. DWG. W-120 SHEET 1 OF 1
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