

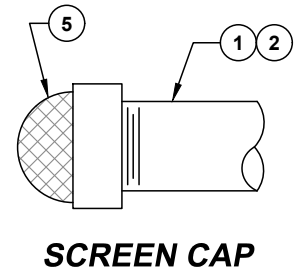
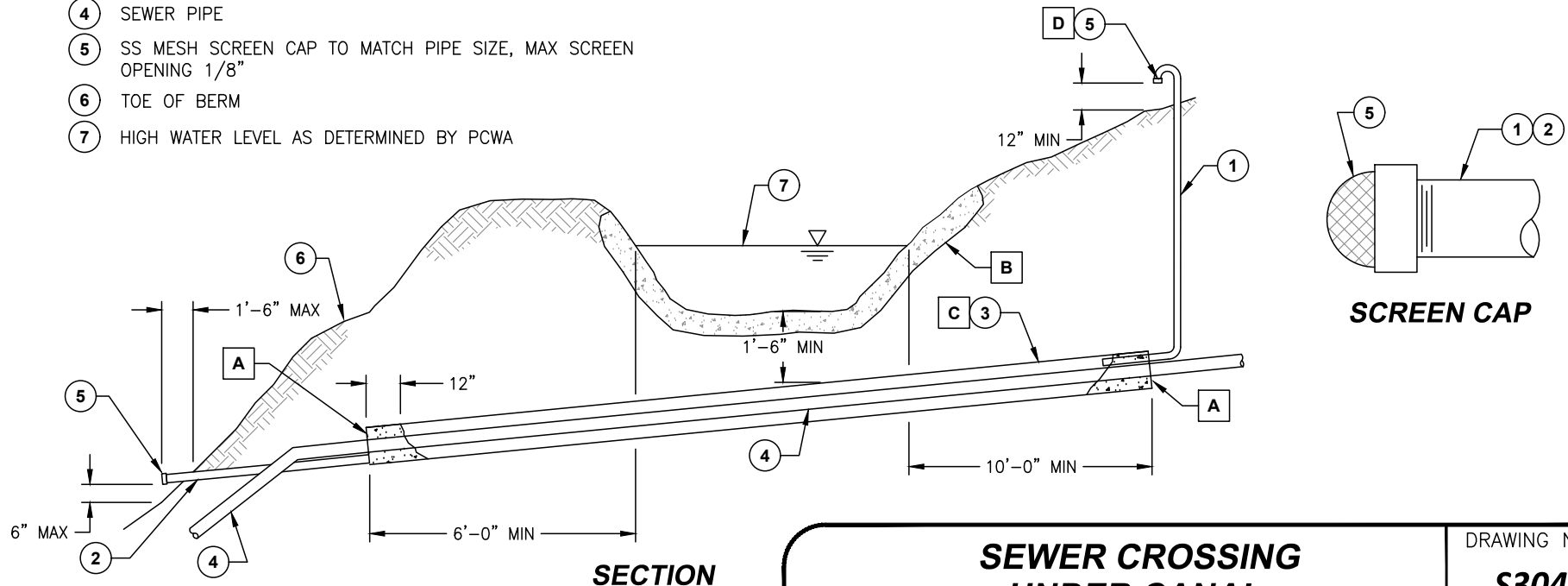
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| ITEM | DESCRIPTION |
| ① | 1" GALVANIZED STEEL VENT PIPE W/180° RETURN ELBOW AND SCREENED CAP |
| ② | 1-1/2" GALVANIZED STEEL OR SCH 80 PVC DRAIN PIPE AND SCREEN CAP |
| ③ | RESTRAINED DUCTILE IRON PIPE. SIZE CASING PER TABLE |

MIN. CASING SIZES	
NOM. CARRIER SIZE	MIN. NOM. CASING SIZE
≤4"	6"
6"	8"
8"	10"
12"	14"
>12"	SPECIAL DESIGN

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|---|--|
| ④ | SEWER PIPE |
| ⑤ | SS MESH SCREEN CAP TO MATCH PIPE SIZE, MAX SCREEN OPENING 1/8" |
| ⑥ | TOE OF BERM |
| ⑦ | HIGH WATER LEVEL AS DETERMINED BY PCWA |

NOTES:

- A** ENGINEER SHALL SUBMIT CASING PIPE, SPACER/INSULATOR, AND END SEAL INFORMATION TO AGENCY FOR APPROVAL. ACCEPTABLE MANUFACTURES CAN BE FOUND IN THE PRE-APPROVED MATERIALS LIST IN APPENDIX D UNDER "CASING INSULATORS". END SEALS SHALL BE SUPPLIED BY SAME MANUFACTURER AS CASING SPACERS/INSULATORS.
- B** THE CANAL CROSS SECTION MUST BE RECONSTRUCTED TO ITS ORIGINAL SHAPE AFTER THE CROSSING IS INSTALLED. BACKFILL MATERIAL MUST BE SIMILAR TO THE EXCAVATED MATERIAL AND BE COMPACTED TO 95% MAXIMUM DRY DENSITY. THE CANAL SHALL BE GUNITE LINED 20' ON EITHER SIDE OF THE PIPELINE. GUNITE SHALL EXTEND TO THE TOP OF THE BERM. GUNITE PER DIV. 3, SEC. 9.
- C** THE AGENCY MAY REQUIRE THE CASING PIPE TO EXTEND BEYOND THE PRESENT CANAL CROSS SECTION IF IT IS ANTICIPATED THAT THE CANAL WILL BE ENLARGED.
- D** ADD CARSONITE MARKER POST 4 FT. ABOVE GRADE, LABEL SEWER CROSSINGS.
- E** SEWER PIPES ARE NOT ALLOWED TO BE INSTALLED OVER OPEN CANALS.



SEE APPENDIX D FOR A PRE-APPROVED MATERIALS LIST.

SEWER CROSSING UNDER CANAL		DRAWING NO. S304
	APPROVED: D R. BRENT SMITH, P.E. DIRECTOR OF TECHNICAL SERVICES	REVISION DATE JUNE 12, 2020