

| SUBSYSTEM   | SYMBOL                             | HYDROGEOLOGIC UNIT                    | DESCRIPTION  |   |
|---|------------------------------------|---------------------------------------|--|---|
| UPPER SEDIMENTARY<br>(Quaternary and Pleistocene) | US                                 | UNCONSOLIDATED<br>SEDIMENTARY AQUIFER | Alluvium along major rivers and<br>Pleistocene catastrophic flood deposits<br>that mantle much of the basin.   |   |
|   | TG                                 | TROUTDALE GRAVEL<br>AQUIFER           | Centric sand and gravel deposits of<br>the Troutdale Formation. Also includes<br>Cascadian volcanic conglomerates<br>(Gresham, Springwater, and Walters Hill<br>Formations), Pleistocene terrace gravel<br>locally along rivers, Boring Lava and<br>High Cascade volcanic lavas. |   |
| LOWER SEDIMENTARY<br>(Pliocene)                   | UNDIFFERENTIATED FINE-GRAINED UNIT | C1                                    | CONFINING UNIT 1   | Mudstone, siltstone, and claystone with<br>some vitric sandstone. Considered<br>Troutdale Formation, however, where<br>the Troutdale sandstone aquifer is not<br>present, it cannot be distinguished from<br>Sandy River Mudstone.      |
|   |                                    | TS                                    | TROUTDALE<br>SANDSTONE AQUIFER   | Vitric sandstone and conglomerate.<br>Correlative with Troutdale Formation.   |
|   |                                    | C2                                    | CONFINING UNIT 2   | Mudstone, siltstone, and claystone<br>mapped as Sandy River Mudstone.   |
|   |                                    | SG                                    | SAND AND GRAVEL<br>AQUIFER (Upper subunit)   | Silty to gravelly sand within Sandy<br>River Mudstone.  |
|   |                                    | SF                                    | SAND AND GRAVEL<br>AQUIFER (Lower subunit)   | Silt and clay with interbedded sand.  |
|   |                                    | OR                                    | OLDER ROCKS  | Includes Skamania Volcanics, Goble<br>Volcanics, marine sediments of<br>the Pribilof Reef and Scappoose<br>Formations, basalts of Waverly<br>Height, Columbia River Basalt<br>Group and volcanic rock of the<br>Rhosodendron Formation. |

EXPLANATION

— CONTACT—Approximately located

— ANTICLINAL FOLD—Dashed where  
approximately located; Arrows  
show direction of plunging

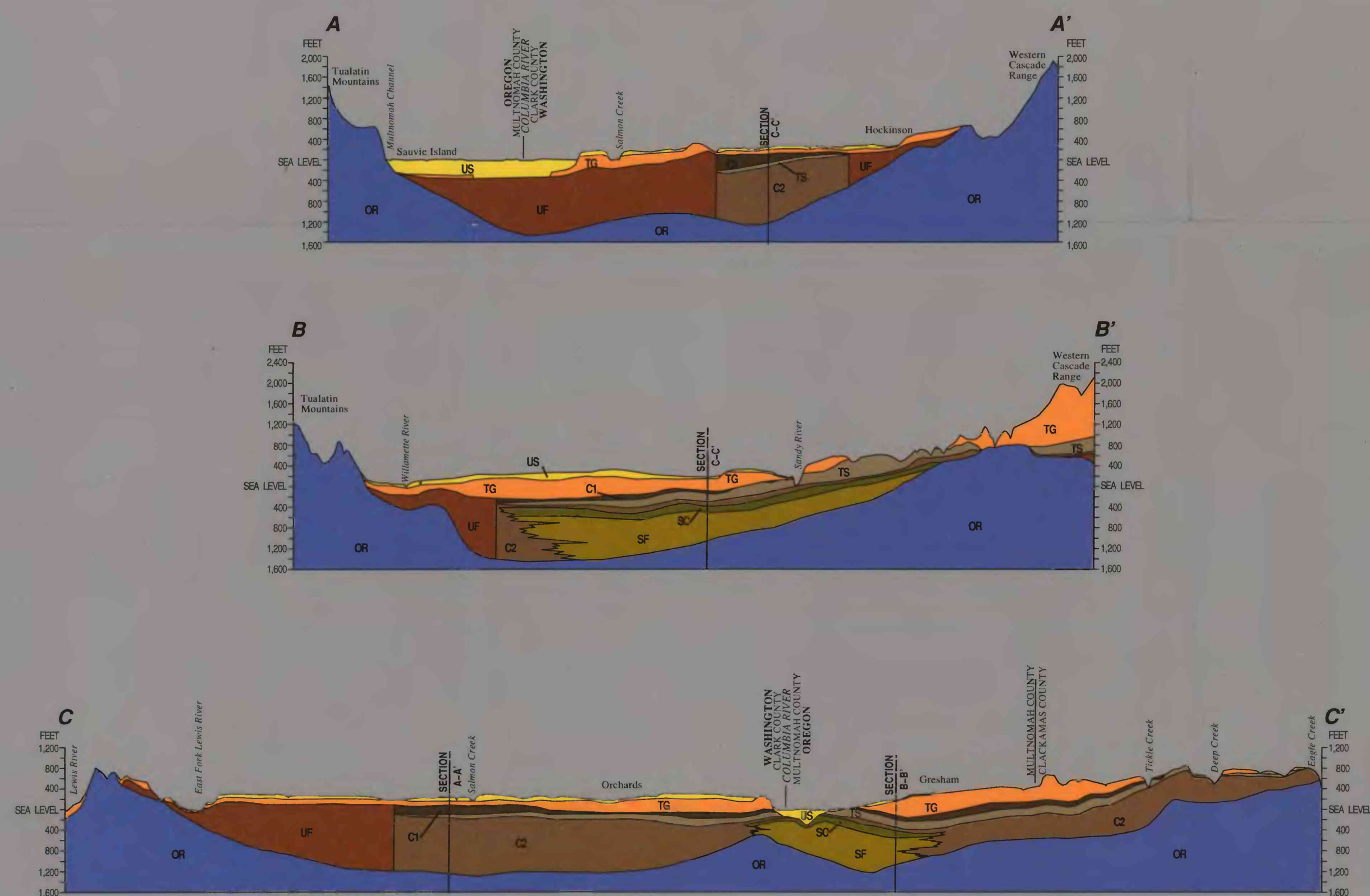
A—A' LINE OF HYDROGEOLOGIC SECTION

D—D' LINE OF GROUND-WATER MODEL SECTION

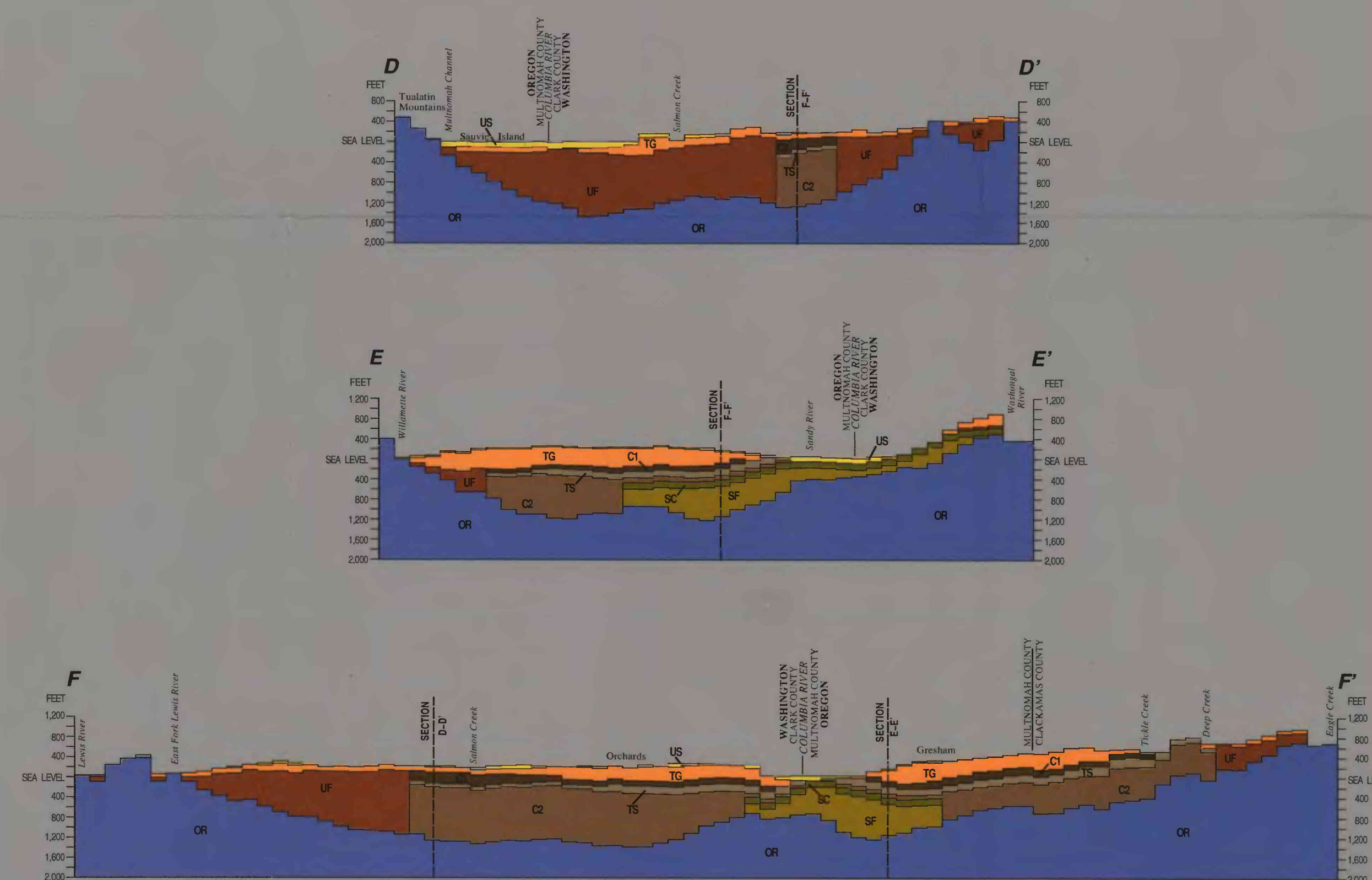
— MODEL-GRID BOUNDARY

▲ 40 STREAMFLOW MEASUREMENT SITE WITH NUMBER

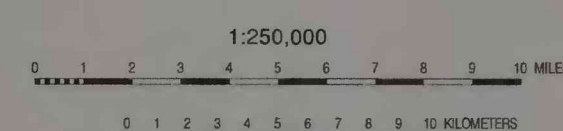
HYDROGEOLOGIC MAP AND STREAMFLOW MEASUREMENT SITES



HYDROGEOLOGIC SECTIONS  
(shows total thickness of units)  
VERTICAL EXAGGERATION X 10



GROUND-WATER MODEL SECTIONS  
(shows only saturated thickness of units)  
VERTICAL EXAGGERATION X 10



MAP SHOWING HYDROGEOLOGY WITH LOCATION OF STREAMFLOW MEASUREMENT SITES, AND HYDROGEOLOGIC AND GROUND-WATER MODEL SECTIONS  
IN THE PORTLAND BASIN, OREGON AND WASHINGTON

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