

Design Manual Volume 1 contains *procedural topics*, including project documentation, permitting and hearings, site data, project investigation, and guidance for coordination with specialty group functions such as traffic, right of way, bridge and structures, and geotechnical design.

Design Manual Volume 2 addresses *design criteria and geometrics*. The design matrices are included in this volume because they communicate expectations for which elements are included in projects.

Most chapter numbers are changed, as shown in this table.

The old number is shown with a strikethrough: ~~325~~ and its new number like this 1100.

VOLUME 1 PROCEDURES	VOLUME 2 DESIGN CRITERIA
Division 1 – General	Division 11 – Project Design Criteria
100 Manual Description	325 - <u>1100</u> Design Matrix Procedures
110 Design-Build Projects	340 - <u>1110</u> Minor Operational Enhancements
120 Planning	410 - <u>1120</u> Basic Design Level
450 - <u>130</u> Project Development Sequence	430 - <u>1130</u> Modified Design Level
Division 2 – Hearings, Environmental, and Permits	440 - <u>1140</u> Full Design Level
200 (reserved)	Division 12 – Geometrics
210 Public Involvement and Hearings	1200 (reserved)
220 Project Environmental Documentation	620 - <u>1210</u> Geometric Plan Elements
240 - <u>230</u> Environmental Permits and Approvals	630 - <u>1220</u> Geometric Profile Elements
Division 3 – Project Documentation	640 - <u>1230</u> Geometric Cross Section
330 - <u>300</u> Design Documentation, Approval and Process Review	641 - <u>1240</u> Turning Roadways
315 - <u>310</u> Value Engineering	642 - <u>1250</u> Superelevation
610 - <u>320</u> Traffic Analysis	650 - <u>1260</u> Sight Distance
Future chapters: space for cost estimation guidance and other similar products here	1010 - <u>1270</u> Auxiliary Lanes
Division 4 – Surveying	Division 13 – Interchanges and Intersections
1440 - <u>400</u> Surveying and Mapping	1300 (reserved) for Intersection Control (currently on hold.)
1450 - <u>410</u> Monumentation	910 - <u>1310</u> Intersections at Grade
Division 5 – Right of Way and Access Control	915 - <u>1320</u> Roundabouts
500 (reserved)	850 - <u>1330</u> Traffic Control Signals
1410 - <u>510</u> Right of Way Considerations	920 - <u>1340</u> Road Approaches
1420 - <u>520</u> Access Control	930 - <u>1350</u> Railroad Grade Crossings
1430 - <u>530</u> Limited Access	940 - <u>1360</u> Traffic Interchanges
1435 - <u>540</u> Managed Access	960 - <u>1370</u> Median Crossovers
1425 - <u>550</u> Interchange Justification Report	Division 14 – HOV & Transit
1460 - <u>560</u> Fencing	1400 (reserved)
Division 6 – Soils and Paving	1050 - <u>1410</u> High Occupancy Vehicle Facilities
600 (reserved)	1055 - <u>1420</u> HOV Direct Access
510 - <u>610</u> Investigation of Soils, Rock, and Surfacing Materials	1060 - <u>1430</u> Transit Facilities
520 - <u>620</u> Design of Pavement Structure	Space here for future chapters if needed (HOT Lanes, etc.)
530 - <u>630</u> Geosynthetics	Division 15 – Pedestrian and Bicycle Facilities
Division 7 – Structures	1500 (reserved)
141 - <u>700</u> Project Dev. Roles and Responsibilities for Projects with Structures	1025 - <u>1510</u> Pedestrian Design Considerations
1110 - <u>710</u> Site Data for Structures	1020 - <u>1520</u> Bicycle Facilities
1120 - <u>720</u> Bridges	Division 16 – Roadside Safety Elements
1130 - <u>730</u> Retaining Walls and Steep Reinforced Slopes	700 - <u>1600</u> Roadside Safety
1140 - <u>740</u> Noise Barriers	710 - <u>1610</u> Traffic Barriers
Division 8 – Hydraulics	720 - <u>1620</u> Impact Attenuator Systems
1210 - <u>800</u> Hydraulic Design	Division 17 – Roadside Facilities
Division 9 – Roadside Development	1700 (reserved)
1300 - <u>900</u> Roadside Development	1030 - <u>1710</u> Safety Rest Areas and Traveler Services
1310 - <u>910</u> Contour Grading	1040 - <u>1720</u> Weigh Sites
1320 - <u>920</u> Vegetation	Space here for future chapters if needed (other roadside facilities)
1330 - <u>930</u> Irrigation	
1350 - <u>940</u> Soil Bioengineering	
1360 - <u>950</u> Public Art	
Division 10 – Traffic	
1000 (reserved)	
810 - <u>1010</u> Work Zone Safety and Mobility	
820 - <u>1020</u> Signing	
830 - <u>1030</u> Delineation	
840 - <u>1040</u> Illumination	
860 - <u>1050</u> Intelligent Transportation Systems	