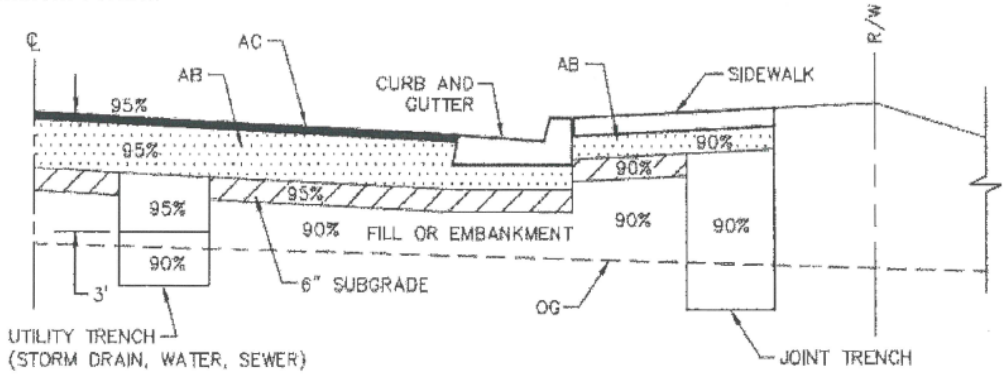
SECTION 201.00

DENSITY REFERENCE GUIDELINE

NOTE: This detail applies to infrastructure installed within the City of Redding's jurisdiction. For installations installed within Shasta County's jurisdiction, specific requirements are provided within the project – specific County Encroachment Permit.



TYPICAL HALF SECTION

DENSITY REFERENCES:

The following criteria shall apply to the compaction of street subgrade and base materials:

Fills/Embankments	(90%)	-	City of Redding's Page 700.00 & 705.10, Greenbook Section 300-6.5
Subgrade	(90% - 95%)	-	This Section & Greenbook Section 301-1.3
Aggregate Base	(90% - 95%)	-	This Section & Greenbook Section 301-2.3
Asphalt Concrete	(95%)	-	This Section & Greenbook Section 302-5.6.2
Joint Trench	(90% - 95%)	-	Section 220.00
Utility Trench	(90% - 95%)	-	Section 210.00

- Maximum density and optimum moisture relationships (Compaction tests) will be determined in accordance with the Standard Specifications (Greenbook), Section 211-2.1.

MINIMUM TESTING FREQUENCY

Results for the following tests shall be taken by an independent geotechnical engineer and shall be provided to the District Inspector prior to any subsequent layer of mater being placed.

Trenches – One (1) Test for every 500 feet of trench length and for every three (3) foot of trench depth with a minimum of three (3) tests per project, or as determined necessary by the geotechnical engineer.
Subgrade & Aggregate Base – One (1) test for every 300 feet of street length with a minimum of three (3) tests per project.

Asphalt Paving – One (1) test for every 200 feet of pavement pass with a minimum of ten (10) tests per project.

Re-Testing – Any tested area failing to meet the specified compaction requirement shall be reworked and/or re-compacted until a minimum of two (2) passing tests are achieved.

The above frequencies may be altered upon the recommendation of the District's Engineer.

The requirements for maximum density-optimum moisture relationships for all other fills (as specified in the grading ordinance) shall apply to those fills placed on private properties outside of street rights-of-way.

Approved :

District Manager