

SCHEDULE "J" PAVEMENT

THE FOLLOWING TABLES ARE TO BE USED TO DETERMINE THE SCHEDULE "J" PAVEMENT DESIGN SECTIONS FOR STREETS, ALLEYS, PARKING LOTS FOR PUBLIC FACILITIES, AND DRIVEWAYS. THESE DESIGNS SHALL BE USED IN THE PUBLIC RIGHT-OF-WAY.

1. RESISTANCE VALUES (R-VALUES) WILL BE DETERMINED FROM SAMPLES TAKEN FROM THE 12" MATERIAL LOCATED IMMEDIATELY BELOW THE FIRST LAYER OF SUBBASE, BASE OR PAVEMENT. THIS 12" SECTION SHALL REPRESENT THE TOP 36 INCHES OF UNIFORM SOILS BELOW THE SUBBASE, OR PAVEMENT. IF A LOWER BEARING SOIL IS ENCOUNTERED IN THIS 36" SECTION, THE R-VALUE WILL BE DETERMINED FROM THE LOWEST BEARING SOIL. DETERMINATION OF THE R-VALUE SHALL BE IN ACCORDANCE WITH CALTRANS TEST METHODS 301-F AND 301-G.
2. AVERAGE DAILY TRAFFIC (ADT) IS THE MAXIMUM AVERAGE ANNUAL ADT EXPECTED AT BUILDOUT. FUNCTION SHALL ALSO BE CONSIDERED WHEN DETERMINING THE MINIMUM SCHEDULE "J" PAVEMENT SECTION PER THE ENGINEER.
3. RIGID PAVEMENTS: THE DESIGN THICKNESS SHOWN IN THE TABLES ARE BASED ON A MODIFIED PORTLAND CEMENT ASSOCIATION (PCA) DESIGN. PROJECTS REQUIRING CALTRANS REVIEW SHOULD UTILIZE THE DESIGN METHODS PRESCRIBED IN THE CALTRANS HIGHWAY DESIGN MANUAL.
4. CONCRETE PAVEMENT SHALL BE CONSTRUCTED IN STREETS ON GRADES GREATER THAN 12.0 PERCENT AND IN ALLEYS AND IN ALLEY INTERSECTIONS. THE PAVEMENT SHALL BE CLASS 560-B-3250 CONCRETE WITH A MINIMUM MODULES OF RUPTURE (MOR) OF 600.
5. WHEN NEW PAVEMENT NARROWS TO SLIVERS OR WEDGES LESS THAN 18", EXISTING PAVEMENT SHALL BE CUT SO THE MINIMUM WIDTH OF NEW PAVEMENT BEING INSTALLED IS 18" WIDE. THE EQUIVALENT SECTION OF FULL DEPTH ASPHALT CONCRETE MAY BE USED WHEN PAVEMENT WIDTH IS LESS THAN 6' AND IT IS IMPRACTICAL TO PLACE CTB.
6. PERSONNEL FROM THE CITY'S MATERIALS TESTING LABORATORY (MTL) SHALL MEET A REPRESENTATIVE OF A PRIVATE CERTIFIED LABORATORY OR GEOTECHNICAL FIRM TO ENSURE CONDITIONS OF NOTE 1 ABOVE ARE MET AND TO INDICATE LOCATIONS OF R-VALUE SAMPLES. MTL STAFF WILL PERFORM FIELD ASSESSMENT OF SOIL SAMPLES AND ASSIGN AN ANTICIPATED RANGE OF R-VALUES FOR EACH SAMPLE TAKEN. R-VALUE REPORTS AND PAVEMENT SECTION RECOMMENDATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR MTL'S REVIEW FOR CONSISTENCY WITH ANTICIPATED R-VALUE RANGE. REPORTS SHALL INCLUDE SAND EQUIVALENT RESULTS, TEST RESULTS, AND EXUDATION CHARTS. R-VALUES DIVERGING MORE THAN ONE SCHEDULE "J" R-VALUE RANGE MAY REQUIRE RETESTING BY THE ENGINEER. R-VALUES CONSISTENT WITH ANTICIPATED R-VALUE RANGE WILL BE STAMPED APPROVED AND FORWARDED TO ENGINEER FOR CONCURRENCE OR WITH COMMENTS ON PROPOSED PAVEMENT SECTIONS.

SHEET 1 OF 4

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING  <b>PAVEMENT DESIGN STANDARDS SCHEDULE "J"</b>	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE   12/18/19 COORDINATOR R.C.E. 56523 DATE
ORIGINAL		M.ROLLINGER	0592		
NOTES		G. PARKINSON	0295		
UPDATED	KA	J. NAGELVOORT	01/12		
REDRAFTED	CD	J. NAGELVOORT	0918		
UPDATED	JN	J. NAGELVOORT	1219		
				DRAWING NUMBER	SDG-113

STREET CLASSIFICATION	MAX ADT	MAX TRAFFIC INDEX	"R" VALUE	STANDARD SECTIONS		CONCRETE M.O.R. 600 MIN		FULL DEPTH A.C. (IN)
				A.C. (IN)	CTB (IN)	CONC (IN)	CTB (IN)	
CUL-DE-SAC	200	5.0	50.0 OR GREATER	3.0	5.0	6.0	—	4.5
LOCAL (L.V.R.)	700	5.5		3.0	5.0	6.5	—	5.0
LOCAL (RES.)	1200	6.0		3.0	5.0	6.5	—	5.5
LOCAL (RES.)	2200	6.5		3.0	5.0	6.5	—	6.0
LOCAL (IND.)	2000	8.5		3.0	7.5	7.5	—	8.5
COLLECTOR (RES.)	3500	7.0		3.0	5.0	7.0	—	6.5
COLLECTOR (RES.)	5000	7.5		3.0	5.5	7.0	—	7.5
COLLECTOR (COMM.IND.)	5000	9.5		3.0	8.5	7.5	—	9.0
COLLECTOR (NO FRT)	7500	8.0		3.0	6.5	7.0	—	8.0
COLLECTOR	15000	9.0		3.0	7.5	7.5	—	8.5
MAJOR (4-LANE)	30000	10.5		3.0	10.0	8.0	—	10.5
MAJOR (6-LANE)	40000	11.0		3.5	10.5	8.0	—	11.0
PRIMARY ARTERIAL	50000	11.5		3.5	11.5	8.0	—	11.5
EXPRESSWAY	60000	12.0		3.5	11.5	8.5	—	12.0
EXPRESSWAY	80000	12.5		4.0	12.0	8.5	—	12.5
EXPRESSWAY	100000	13.0		4.0	12.5	9.0	—	13.0

STREET CLASSIFICATION	MAX ADT	MAX TRAFFIC INDEX	"R" VALUE	STANDARD SECTIONS		CONCRETE M.O.R. 600 MIN		FULL DEPTH A.C. (IN)
				A.C. (IN)	CTB (IN)	CONC (IN)	CTB (IN)	
CUL-DE-SAC	200	5.0	40.0 TO 49.9	3.0	5.0	6.5	—	5.0
LOCAL (L.V.R.)	700	5.5		3.0	5.0	6.5	—	6.0
LOCAL (RES.)	1200	6.0		3.0	5.5	7.0	—	6.5
LOCAL (RES.)	2200	6.5		3.0	6.0	7.0	—	7.0
LOCAL (IND.)	2000	8.5		3.0	9.5	7.5	—	9.5
COLLECTOR (RES.)	3500	7.0		3.0	6.5	7.0	—	8.0
COLLECTOR (RES.)	5000	7.5		3.0	7.5	7.5	—	8.5
COLLECTOR (COMM.IND.)	5000	9.5		3.0	11.0	8.0	—	11.0
COLLECTOR (NO FRT)	7500	8.0		3.0	8.5	7.5	—	9.0
COLLECTOR	15000	9.0		3.0	10.5	8.0	—	10.0
MAJOR (4-LANE)	30000	10.5		3.5	12.5	8.5	—	12.0
MAJOR (6-LANE)	40000	11.0		4.0	12.5	8.5	—	12.5
PRIMARY ARTERIAL	50000	11.5		4.0	13.5	9.0	—	13.0
EXPRESSWAY	60000	12.0		4.5	13.5	9.0	—	13.5
EXPRESSWAY	80000	12.5		4.5	14.5	9.5	—	14.0
EXPRESSWAY	100000	13.0		5.0	15.0	10.0	—	15.0

SHEET 2 OF 4

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE  12/18/19 COORDINATOR R.C.E. 56523 DATE
ORIGINAL		M.ROLLINGER	05/92		
NOTES		G. PARKINSON	02/95		
UPDATED	KA	J. NAGELVOORT	01/12		
REDRAFTED	JN	J. NAGELVOORT	12/19		
<b>PAVEMENT DESIGN STANDARDS SCHEDULE "J"</b>				DRAWING NUMBER	<b>SDG-113</b>

STREET CLASSIFICATION	MAX ADT	MAX TRAFFIC INDEX	"R" VALUE	STANDARD SECTIONS		CONCRETE M.O.R. 600 MIN		FULL DEPTH
				A.C. (IN)	CTB (IN)	CONC (IN)	CTB (IN)	
CUL-DE-SAC	200	5.0	30.0 TO 39.9	3.0	5.0	6.5	—	6.0
LOCAL (L.V.R.)	700	5.5		3.0	5.5	7.0	—	6.5
LOCAL (RES.)	1200	6.0		3.0	6.5	7.0	—	7.0
LOCAL (RES.)	2200	6.5		3.0	7.5	7.0	—	8.0
LOCAL (IND.)	2000	8.5		3.0	11.5	8.0	—	10.5
COLLECTOR (RES.)	3500	7.0		3.0	8.5	7.5	—	8.5
COLLECTOR (RES.)	5000	7.5		3.0	9.5	7.5	—	9.0
COLLECTOR (COMM.IND.)	5000	9.5		3.5	13.0	8.5	—	12.0
COLLECTOR (NO FRT)	7500	8.0		3.0	10.5	7.5	—	10.0
COLLECTOR	15000	9.0		3.5	12.0	8.0	—	11.0
MAJOR (4-LANE)	30000	10.5		4.0	14.5	8.5	—	13.5
MAJOR (6-LANE)	40000	11.0		4.5	15.0	9.0	—	14.0
PRIMARY ARTERIAL	50000	11.5		5.0	15.5	9.0	—	14.5
EXPRESSWAY	60000	12.0		5.0	16.5	9.5	—	15.0
EXPRESSWAY	80000	12.5		5.5	17.0	9.5	—	16.0
EXPRESSWAY	100000	13.0	6.0	17.0	10.0	—	17.0	

STREET CLASSIFICATION	MAX ADT	MAX TRAFFIC INDEX	"R" VALUE	STANDARD SECTIONS		CONCRETE M.O.R. 600 MIN		FULL DEPTH
				A.C. (IN)	CTB (IN)	CONC (IN)	CTB (IN)	
CUL-DE-SAC	200	5.0	20.0 TO 29.9	3.0	5.5	7.0	—	6.5
LOCAL (L.V.R.)	700	5.5		3.0	7.0	7.0	—	7.5
LOCAL (RES.)	1200	6.0		3.0	8.0	7.0	—	8.0
LOCAL (RES.)	2200	6.5		3.0	9.0	7.5	—	8.5
LOCAL (IND.)	2000	8.5		3.5	13.0	8.0	—	11.5
COLLECTOR (RES.)	3500	7.0		3.0	10.0	7.5	—	9.0
COLLECTOR (RES.)	5000	7.5		3.0	11.5	7.5	—	10.0
COLLECTOR (COMM.IND.)	5000	9.5		4.0	15.0	8.5	—	13.0
COLLECTOR (NO FRT)	7500	8.0		3.5	12.0	8.0	—	11.0
COLLECTOR	15000	9.0		4.0	13.5	8.5	—	12.0
MAJOR (4-LANE)	30000	10.5		5.0	16.0	8.5	5.0	14.5
MAJOR (6-LANE)	40000	11.0		5.0	17.0	8.5	5.0	15.5
PRIMARY ARTERIAL	50000	11.5		5.5	17.5	9.0	5.0	16.0
EXPRESSWAY	60000	12.0		6.0	18.0	9.0	5.0	17.0
EXPRESSWAY	80000	12.5		6.0	19.5	8.5	5.0	17.5
EXPRESSWAY	100000	13.0	6.5	20.0	10.0	5.0	18.5	

SHEET 3 OF 4

REVISION	BY	APPROVED	DATE
ORIGINAL		M.ROLLINGER	05/92
NOTES		G. PARKINSON	02/95
UPDATED	KA	J. NAGELVOORT	01/12
REDRAFTED	JN	J. NAGELVOORT	12/19

CITY OF SAN DIEGO – STANDARD DRAWING

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**PAVEMENT DESIGN STANDARDS**

**SCHEDULE "J"**

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

*Chungpa* 12/18/19

COORDINATOR R.C.E. 56523 DATE


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DRAWING NUMBER **SDG-113**

STREET CLASSIFICATION	MAX ADT	MAX TRAFFIC INDEX	"R" VALUE	STANDARD SECTIONS		CONCRETE M.O.R. 600 MIN		FULL DEPTH
				A.C. (IN)	CTB (IN)	CONC (IN)	CTB (IN)	
CUL-DE-SAC	200	5.0	10.0 TO 19.9	3.0	7.0	7.0	--	7.5
LOCAL (L.V.R.)	700	5.5		3.0	8.0	7.0	--	8.0
LOCAL (RES.)	1200	6.0		3.0	9.0	7.5	--	8.5
LOCAL (RES.)	2200	6.5		3.0	10.5	7.5	--	9.0
LOCAL (IND.)	2000	8.5		4.0	14.5	8.0	5.0	12.5
COLLECTOR (RES.)	3500	7.0		3.0	12.0	7.5	--	10.0
COLLECTOR (RES.)	5000	7.5		3.5	12.5	8.0	--	11.0
COLLECTOR (COMM.\IND.)	5000	9.5		4.5	16.5	8.5	5.0	14.0
COLLECTOR (NO FRT)	7500	8.0		3.5	14.0	8.0	--	11.5
COLLECTOR	15000	9.0		4.5	15.0	8.0	5.0	13.0
MAJOR (4-LANE)	30000	10.5		5.5	18.0	8.5	6.0	15.5
MAJOR (6-LANE)	40000	11.0		6.0	18.5	9.0	6.0	16.5
PRIMARY ARTERIAL	50000	11.5		6.0	20.0	9.0	6.0	17.5
EXPRESSWAY	60000	12.0		6.5	20.5	9.0	6.0	18.5
EXPRESSWAY	80000	12.5		7.0	21.5	9.5	6.0	19.0
EXPRESSWAY	100000	13.0		7.5	22.5	10.0	6.0	20.0

STREET CLASSIFICATION	MAX ADT	MAX TRAFFIC INDEX	"R" VALUE	STANDARD SECTIONS		CONCRETE M.O.R. 600 MIN		FULL DEPTH
				A.C. (IN)	CTB (IN)	CONC (IN)	CTB (IN)	
CUL-DE-SAC	200	5.0	0.0 TO 9.9	3.0	8.0	7.0	--	8.5
LOCAL (L.V.R.)	700	5.5		3.0	9.5	7.5	--	9.0
LOCAL (RES.)	1200	6.0		3.0	10.5	7.5	--	9.5
LOCAL (RES.)	2200	6.5		3.0	12.5	7.5	--	10.5
LOCAL (IND.)	2000	8.5		4.5	16.0	8.0	5.0	14.0
COLLECTOR (RES.)	3500	7.0		3.5	13.0	7.5	--	11.5
COLLECTOR (RES.)	5000	7.5		3.5	14.5	8.0	--	12.5
COLLECTOR (COMM.\IND.)	5000	9.5		5.0	18.5	8.5	6.0	15.5
COLLECTOR (NO FRT)	7500	8.0		4.0	15.5	8.0	5.0	13.0
COLLECTOR	15000	9.0		5.0	17.0	8.5	5.0	14.5
MAJOR (4-LANE)	30000	10.5		6.0	20.0	9.0	6.0	17.5
MAJOR (6-LANE)	40000	11.0		6.5	21.0	9.0	6.0	18.5
PRIMARY ARTERIAL	50000	11.5		7.0	22.0	9.0	6.0	19.5
EXPRESSWAY	60000	12.0		7.0	23.0	9.5	6.0	20.5
EXPRESSWAY	80000	12.5		7.5	24.0	10.0	6.0	21.5
EXPRESSWAY	100000	13.0		8.0	25.0	10.5	6.0	22.0

SHEET 4 OF 4

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING  <b>PAVEMENT DESIGN STANDARDS</b> <b>SCHEDULE "J"</b>	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE   12/18/19 COORDINATOR R.C.E. 56523 DATE
ORIGINAL		M.ROLLINGER	05/92		
NOTES		G. PARKINSON	02/95		
UPDATED	KA	J. NAGELVOORT	01/12		
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					DRAWING NUMBER <b>SDG-113</b>