



SAN JOAQUIN COUNTY FIRE CHIEFS ASSOCIATION

Fire Apparatus Access Road Standards

The California Fire Code, adopted by S.J.Co. Ordinance No. 4178 effective as of November 8, 2002 requires that fire apparatus access roads shall be provided for every facility, building or portion of a building constructed or moved into or within the jurisdiction when any portion of the facility or any portion of an exterior wall of the first story of the building is located more than 150 feet from fire apparatus access as measured by an approved route around the exterior of the building or facility. The fire apparatus access road must be in accordance with attached exhibits "A, B, C, and D" of these standards.

All fire apparatus access roads must be detailed on Building Permit construction drawings. The site plan will be reviewed and approved by the San Joaquin County Fire Prevention Bureau Staff for the Fire Districts. An approval of the completed fire road from the Fire District having Authority is required prior to granting occupancy or conducting a final inspection by the Building Department, **or any electric or gas utilities release on mobile homes, modular homes, or moved structures.**

The Fire Jurisdiction having Authority may make modifications to the fire road requirements when there are 2 or less dwelling units or Group U occupancies to be served by the access road or driveway.

If you should have any questions about these requirements, please contact the appropriate agency that has jurisdiction of your project area. If you have any other questions call the number listed at the bottom of the page.

Fire District	Address	Phone Number
Clements	18901 E. Hwy. 88	759-3371
Collegeville	13225 E. Mariposa Rd.	941-2339
Eastside (City of Stockton)	345 N. El Dorado	937-8271
Escalon	1749 Coley Ave.	838-7500
Farmington	25474 E. Hwy. 4	886-5321
French Camp-McKinley	310 E. French Camp Rd.	982-0592
Liberty Fire District	24124 N. Bruella Rd.	339-1329
Lincoln (City of Stockton)	345 N. El Dorado	937-8271
Linden-Peters	17725 E. Hwy 26	887-3710
Lathrop-Manteca	800 East. J St.	858-2331
Mokelumne	13157 E. Brandt Rd	727-0564
Montezuma	2405 South B St.	464-5234
Ripon	142 S. Stockton Ave.	599-4209
Thornton	25999 N. Thornton Rd.	794-2460
Tracy	432 E. 11 th St.	831-6700
Tuxedo-C. Club (City of Stockton)	345 N. El Dorado	937-8271
Waterloo Morada	6925 E. Foppiano Ln.	931-3107
Woodbridge	400 E. Augusta	369-1945

San Joaquin County Community Development Department
Fire Prevention Bureau, 1810 E. Hazelton Avenue
Stockton, Ca. 95205-6232
209-468-3380

EXHIBIT "A"

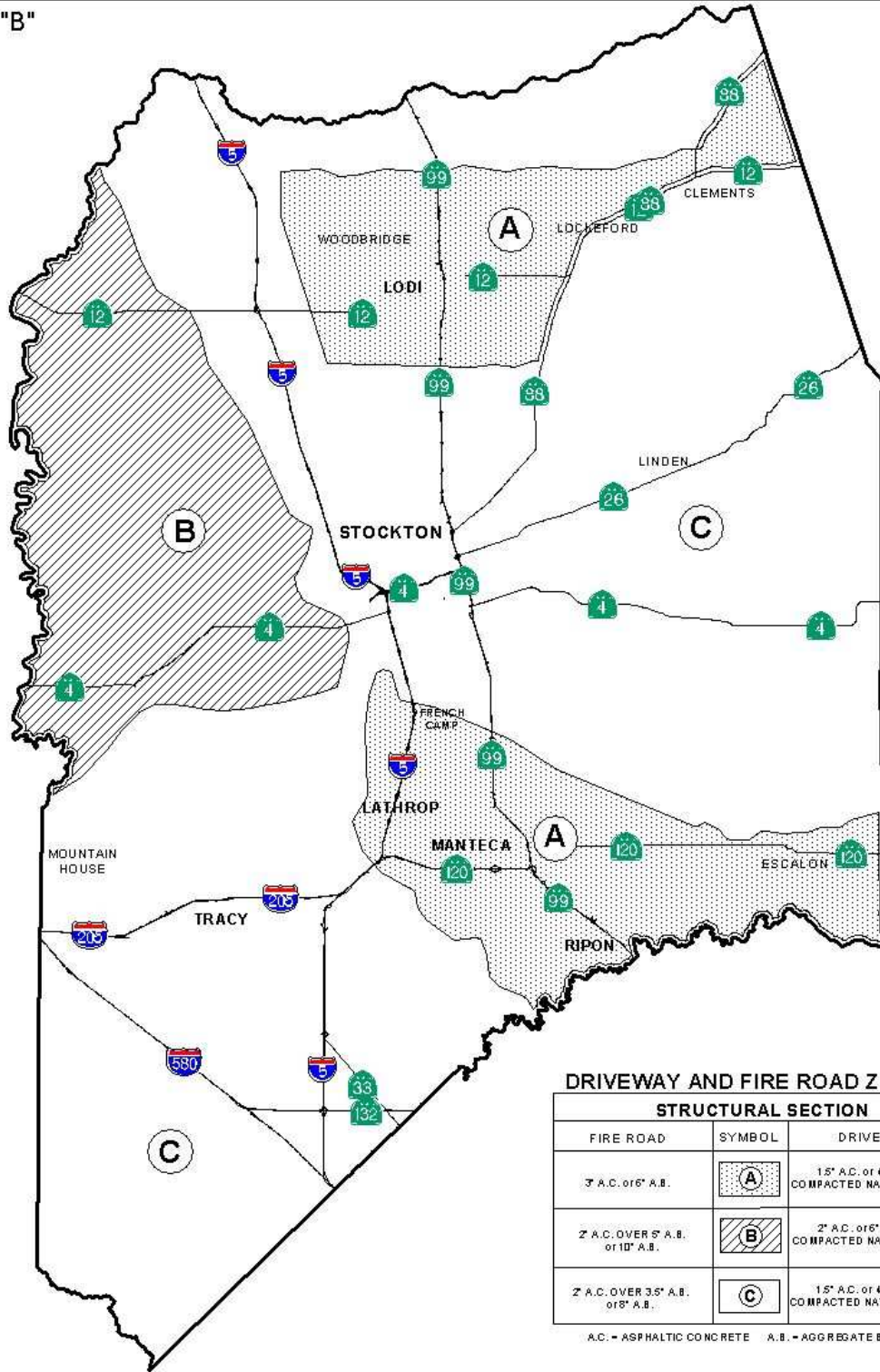
San Joaquin County Fire Chiefs Association Standards Roads or driveways serving 2 or less dwellings or structures on a single parcel

On additions of less than 750 square feet or 50% of the existing structure; or accessory structures less than 750 square feet; or non-habitable structures requiring a permit; no additional fire access road requirement will be necessary.

1. Definition: Fire apparatus access roads or driveways are roads that are designed and constructed to provide vehicular access to two (2) or less structures on a single parcel and are greater than 150 feet in length from the edge of the public or private right-of-way road surface. Three (3) or more structures or dwelling units on one or more parcels shall comply with "Exhibit D".
2. Surface: Fire apparatus access roads shall be designed and maintained to support the imposed loads of fire apparatus with a relative compaction of not less than ninety (90) percent and shall be provided with a surface as to permit all weather driving capabilities. *The Chief in some jurisdictions may require a compaction test by a registered professional soils engineering firm.*
3. Public Way: Public way is any street, alley, or similar parcel of land essentially unobstructed from the ground to the sky, which is deeded, dedicated, or otherwise permanently appropriated to the public for public use.
4. Refer to "Exhibit B" (Fire Apparatus Access Road Zones) for structural section.
5. All roads shall have 20' minimum unobstructed width with all weather surfacing. Gates shall not project into the required minimum width and shall have approved fire department opening capabilities, knox box, etc.
6. Adequate drainage shall be provided and be shown on the roadway plan.
7. Minimum vertical clearance over all roadway surfaces shall be maintained at 13 feet, 6 inches.
8. The turning radius on dead end roads may be greater than 41' and need to be designed to handle the turning radius of the largest fire apparatus. The Fire Chief of the district shall make this determination.
9. A turnaround shall be provided no further than 150 feet from the dead end of a fire road. See "Exhibit C" for details.
10. Turnouts: Dead-end roads shall have turnouts spaced at a maximum of 1320-foot intervals.
11. All materials shall be aggregate road base, class 2 minimum, or an approved equivalent.
12. All parking is prohibited on minimum width fire access roadways. The local fire district may require that "No Parking" signs be posted.
13. Bridges, box culverts, or low water crossings shall be designed for HS20-44 loading by a civil or structural engineer.

When a fire apparatus access road or driveway is required for structures, it shall be constructed and approved prior to receiving a final inspection or occupancy being granted by the Building Department, or utilities being released for modular homes, mobile homes, or moved structures.

EXHIBIT "B"



DRIVEWAY AND FIRE ROAD ZONES

STRUCTURAL SECTION		
FIRE ROAD	SYMBOL	DRIVEWAY
3' A.C. or 6" A.B.	(A)	1.5' A.C. or 4" A.B. Over COMPACTED NATIVE MATERIAL
2' A.C. OVER 6" A.B. or 10" A.B.	(B)	2" A.C. or 6" A.B. OVER COMPACTED NATIVE MATERIAL
2' A.C. OVER 3.5" A.B. or 8" A.B.	(C)	1.5' A.C. or 4" A.B. Over COMPACTED NATIVE MATERIAL

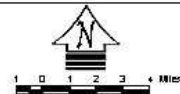
A.C. - ASPHALTIC CONCRETE A.B. - AGGREGATE BASE C.L. 2



Fire Apparatus Access Road Zones

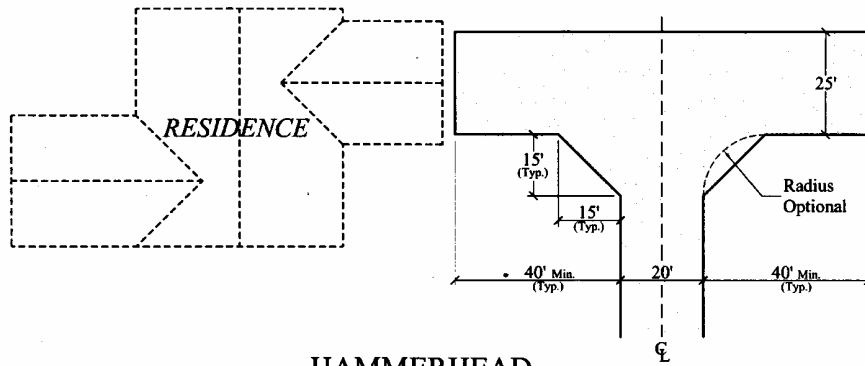
San Joaquin County Geographic Information System
 610 East Hazelton Avenue, Stockton, CA 95206

This boundary or other information on this map is for informational purposes only. It is not intended to be used for legal purposes. The user of this map is responsible for verifying the accuracy of the information.

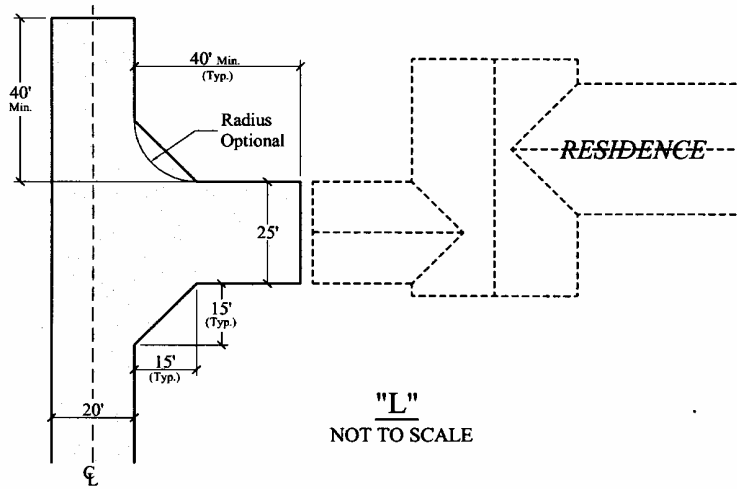


January 2, 2003 GIS

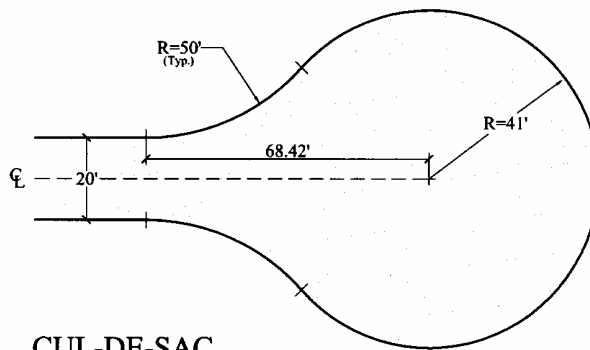
EXHIBIT "C"



HAMMERHEAD
NOT TO SCALE



"L"
NOT TO SCALE



CUL-DE-SAC
NOT TO SCALE

Fire Apparatus Access Road Turnaround Details

EXHIBIT “D”

San Joaquin County Fire Chiefs Association Standards Fire Road Requirements for Planned Unit Developments.

1. Definition: A planned unit development or a planned residential unit development is a residential subdivision or portion of land resulting in Three (3) or more dwelling units as approved and recorded in accordance with local planning and zoning regulations.
2. Private Road: A private road is any roadway or street serving one or more parcels and is not deeded, dedicated or otherwise appropriated to a public agency for use by the general public.
3. Public Way: Public way is any street, alley, or similar parcel of land essentially unobstructed from the ground to the sky, which is deeded, dedicated, or otherwise permanently appropriated to the public for public use.
4. Roads installed per this standard shall be named and the appropriate County department shall apply addresses. Public roads shall comply with the requirements of S.J.Co. Public Works and the signage shall be installed accordingly. Private roads shall be named and the signage shall be green with white lettering and reflective in nature with the letters (PVT) in yellow with black at the end of the road name . These private signs will be purchased from, and installed by the S. J. Co. Public Works Department. Road names and addresses shall be approved by Community Development Department.
5. Surface: All requirements of "Exhibit B" (Fire Apparatus Access Road Zones) for surface requirements, structural sections, and material specifications shall apply and additionally the compaction requirements shall be ninety-five (95) percent for P.U.D.'s and the finished surface shall be asphaltic concrete pavement or equivalent.
 - 5.1. Private roadways in P.U.D.'s shall have an agreement delineating maintenance and repair responsibilities by the landowners utilizing the access roadway(s) for ingress and egress and such document shall be recorded in the Official Records of the County of San Joaquin.
6. Road widths shall be as approved by the Chief or as follows:
 - 6.1. 20-foot minimum unobstructed width when parking is not allowed and may be so posted when required by the Chief.
 - 6.2. 28-foot minimum unobstructed width when parking is allowed on one side of the street and may be so posted when required by the Chief.
 - 6.3. 36-foot minimum unobstructed width when parking is unrestricted.
 - 6.3.1. Rollover curbs are acceptable and preferable.
7. Minimum vertical clearance over all roadway surfaces shall be maintained at 13 feet, 6 inches.
8. The turning radius on dead end roads may be greater than 41' and need to be designed to handle the turning radius of the largest fire apparatus. The fire chief of the district shall make this determination.
9. A turnaround shall be provided no further than 150 feet from the dead end of a fire road. See “Exhibit C” for details. Turnouts. Dead-end roads shall have turnouts spaced at a maximum of 1320-foot intervals.
10. Access-control devices: when the required fire department access is restricted by the installation of a gate or other means, the Chief shall approve of the device and may require the installation of a knox box of similar device to gain emergency access.
11. Bridges, box culverts, or low water crossings shall be designed for HS20-44 loading by a civil or structural engineer.
12. When a fire apparatus access road is required for a P.U.D., it shall be constructed and approved by the local fire authority before the County Surveyors office will file the map for record.