FINAL

MASTER ENVIRONMENTAL IMPACT REPORT

for the

TRACY INDUSTRIAL AREAS SPECIFIC PLAN

Prepared for the

CITY OF TRACY

by

EDAW, Inc.

in association with

Wilsey & Ham DKS Associates Bartle-Wells Associates

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RESPONSE TO COMMENTS

This section presents formal response to comments made regarding the Draft Environmental Impact Report (Draft EIR) for the proposed Tracy Industrial Areas Specific Plan. This section, combined with the text produced for the Draft EIR, represent the Final EIR.

The following pages contain comments on the Draft which have been extracted from letters submitted by public agencies and individuals during the review period. These comments are identified by numbers which correspond to the text of the letter originals; these originals are provided in their complete form in Appendix B. The comments are followed by responses which have been prepared in association with City of Tracy staff.

Correspondence was received from the following agencies, organizations, and individuals. The numbers assigned before each respondent's name refer to the code assigned to each letter for identification purposes.

- 1. The Resources Agency of California, Department of Conservation, December 9, 1987.
- 2. State of California Department of Transportation (CalTrans), December 9, 1987.
- 3. Department of Transportation, Division of Aeronautics, December 14, 1987.

Comments and Responses

1.1 "The proposal would establish a specific plan for approximately 643.46 acres of agricultural land in the south and east portion of the City of Tracy, none of which is under Williamson Act contract. Part of the land is fallow and part is being used to grow crops. The site is contiguous to development.

The Final Environmental Impact Report (FEIR) should provide information on the number of acres of agricultural land to be developed, the potential agricultural value of the site, the impact of the conversion of that land and possible mitigation actions.

Specifically, we recommend that the FEIR contain information which quantifies the types and relative yields of the crops grown on the portion of the site which is currently being farmed. Information on crop values can be obtained from the County of San Joaquin's Department of Agriculture.

In addition, the Department is concerned with the loss of prime agricultural land as a result of development. The DEIR states on Page 3-23 that soil surveys show the land within the Industrial Specific Plan is "not the most fertile in the area". However, the Soil Conservation Service's District Office in Stockton has indicated that the land in the Plan area is classified Capay Clay (Land Capability IIS-5 when irrigated), which is considered prime agricultural land by San Joaquin County. The California Environmental Quality Act (CEQA) in Appendix G (y) states that a project will normally have a significant effect on the environment it is converts prime agricultural land to non-agricultural use or impairs the agricultural productivity of prime agricultural land. We recommend that the Soil Conservation Service in Stockton be contacted to correctly determine the agricultural quality of the soil in the plan area."

Response: The City of Tracy General Plan and Environmental Impact Report, prepared in 1982, specifically addresses the impacts on agricultural lands and soils from development in the Industrial Specific Plan areas. The Industrial Areas Specific Plan is an implementation tool of the General Plan and is consistent with its policies. It was assumed that the adopted EIR for the General Plan adequately addressed the consequences of development in these areas.

- 1.2 "Recently, the County of San Joaquin has experienced the development of large amounts of agricultural land, mostly prime land. Also, conversion of agricultural land usually leads to growth-inducing impacts on other farmland in the neighboring areas. We recommend that the cumulative and growth-inducing impacts of the Specific Plan be assessed, and mitigation measures be identified in the Specific Plan that will mitigate these impacts to the point of insignificance. Some possibilities are:
 - Direct urban growth to lower-quality soils in order to protect prime agricultural land.

- Protect other, existing farmland of equivalent, or better, quality through the use of Williamson Act contracts.
- Establish buffers such as setbacks, berms, greenbelts and open-space areas to separate farmland from urban uses.
- Implement right-to-farm ordinances to diminish nuisance impacts of urban uses on neighboring agricultural operations, and vice-versa.

Also, farmland trusts, which have been established by other counties, such as the Sonoma Farmland Trust, can effectively preserve agricultural land and should be considered in the analysis of mitigation alternatives."

Response: The stated policy of the Tracy General Plan is to direct primary city expansion to the south and west, where the soils are not of prime quality and will not significantly affect the viability of agriculture in the area. The location of the Industrial Areas, along with the Army Depot are intended to form an eastern buffer from additional residential expansion, and to direct any future development to the west. Furthermore, the cumulative and growth-inducing effects of the Specific Plan are discussed in Sections 5 and 6 of the DEIR.

2.1 "CalTrans has been working with the San Joaquin County Council of Governments, the City of Tracy and others on completion of several traffic studies for the Tracy area and I-205. The fact that these studies are in progress indicates a high level of concern about the quality of highway facilities and services for this area."

Response: Comment acknowledged.

2.2 "This project itself will cause some impacts on the traffic in the project area. The number of recent residential development proposals indicates a cumulative growth impact that may go beyond the levels projected by the current area traffic studies. These studies should include current and projected traffic analysis on streets and highways from all of the proposed developments. Mitigation measures should be adequately planned for

locations where the Level of Service (LOS) is expected to deteriorate to an unacceptable level."

Response: The DEIR noted (p. 4-27) that it is vital for the City of Tracy and other communities in the I-205 corridor to work with the Department of Transportation to develop measures to mitigate all projected growth in the I-205 corridor. However, at the time the DEIR was written traffic impact analyses had not been completed for much of the development projected in the corridor.

2.3 "The current Average Daily Tripends (ADTs) on Route I-205 are 40,800 which is projected to increase to 93,700 ADT by the year 2005.

The existing facility is expected to decline to a LOS of F-2 in ten years, and F-3 in twenty years. If two lanes are added to the facility a LOS of D-43 can be expected in ten years, and F-1 after twenty years. Our route concept is to provide a LOS of D-40. Maintenance of this LOS will require six lanes within ten years and eight lanes within twenty years. Page 8-11 states that 'widening I-205 to six lanes would mitigate the traffic development in Tracy...'. This comment appears to satisfy this need only for the next ten years."

Response: Comment acknowledged. The DEIR traffic analysis indicates that six lanes could accommodate potential development in Tracy only, but also notes that other cumulative development outside Tracy will be added during the same timeframe. Mitigation measures to offset the impacts of this additional cumulative development should be determined once the cumulative development scenario is better quantified and analyzed.

2.4 "On Pages 4-18 the discussion of trip distribution should include traffic on I-5. Use of 25% of the trip distribution on I-205 from the north would include traffic from the I-5 and Stockton areas."

Response: Comment acknowledged. The text has been revised to indicate that the 25 percent of project trips presumed to use I-205 do include traffic using I-5 to and from the Stockton area.

2.5 "Pages 4-24 utilize data from 1976 and 1980. If no other data is available, ramp studies should be performed to get current data. Significant population and traffic increases have occurred since 1980 and should be reflected in the projections for I-205."

Response: The 1980 ramp counts by CalTrans were the most recent available. 1986 ramp volumes were estimated by extrapolating the annual rate of increase between 1976 and 1980 to 1986. The ramp volumes thus calculated are approximately 70% higher than the 1980 observed volumes.

2.6 "Pages 4-25 peak hour traffic volumes for I-205 appear to conflict with the data shown in the 1985 or 1986 Traffic Volume Books. The source of the data use needs to be identified and any variations reconciled."

Response: Volumes were taken from the 1985 <u>Traffic Volumes</u> book, but were erroneously transcribed into the text of the DEIR. The correct base volumes are now indicated on Page 4-25. Pages 8-9, 8-10 and 8-11 have been corrected as well.

2.7 "I-205 mitigation measures discussed on Pages 4-27 need to have specific time frames developed. Mitigation generally should be completed before the project is developed and the traffic impacts are created. More specific planning for I-205 traffic mitigation needs to be displayed throughout the study."

Response: Comment acknowledged. Specific timing of I-205 mitigations must await additional studies of other development in the I-205 corridor.

2.8 "Conditions at Grant Line Road and Tracy Boulevard at I-205 are already creating serious safety concerns. Tracy Boulevard in the areas adjacent to I-205 should be widened to five lanes under the bridge structure to handle traffic storage problems."

Response: Comment acknowledged. The City of Tracy is currently examining possible interchange improvements at these locations. The Tracy Boulevard Widening Study

currently underway will specifically examine widening Tracy Boulevard to five lanes under I-205.

2.9 "The ramps at Grant Line Road need to be realigned to provide for traffic flow. To eliminate serious accident concerns at the intersection of Grant Line Road and the traffic from the east bound off ramp this realignment needs to be addressed early in the project."

Response: The City of Tracy is currently evaluating possible improvements at the Grant Line Road/I-205 interchange.

2.10 "Consideration should be given to mitigation of traffic volumes and air quality concerns through traffic reduction measures. Development of commute management facilities including Park and Ride lots, employer incentives and carpool locations would reduce traffic congestion during all phases of the project's development and into the future."

Response: Comment acknowledged. On Page 4-27 of the DEIR a similar recommendation is made.

2.11 "Specific identification of funding sources and responsible entities to improve State
Highway facilities as mitigation for development in the specific plan needs to be identified.
These responsibilities should also be made part of the conditions for approval of individual developments."

Response: The City of Tracy is considering different funding mechanisms such as builder fees and/or an increase in sales tax by which Specific Plan developers and users would contribute towards needed State Highway improvements. Participation in the funding mechanism, once finalized, would become a condition of development.

3.1 "Portions of the industrial plan area appear to be located within the Tracy Municipal Airport overlay zone. Projects within the Airport area of influence should be reviewed by the San Joaquin County Airport Land Use Commission to determine compatible land uses."

Response: Comment acknowledged. Provisions in Section 4.1.1.4 of the Draft Industrial Areas Specific Plan, February 1988, require projects within the Airport Overlay Zone to comply with those regulations.

ADDENDUM: PAGES FROM DEIR WITH CORRECTED TEXT

- 25 percent: To and from cities to the east reached via Interstate 205 (e.g., Manteca and Ripon) and Interstate 5 North (e.g. Stockton).
- 15 percent: To and from cities to the south reached via I-580 or State Route 132 (e.g., Patterson and Modesto).
- 10 percent: To and from the Bay Area via I-205 and I-580.

It should be noted that the freeway-oriented traffic includes most of pick-up, delivery, office visitor and other non-commute traffic.

Traffic Assignment

Once the trip distribution was determined, new trips were assigned to the Tracy street network and the regional highway system. In general, the shortest path from origin to destination was used, but the routings developed tend to avoid, when possible, areas where heavy traffic is anticipated even without the Industrial Areas Specific Plan. Such heavy traffic areas include segments of Tracy Boulevard, Central Avenue and Eleventh Street.

Analysis of Traffic Impacts - Preserred Alternative (50 percent build-out)

The traffic impacts of the Industrial Areas Specific Plan Preferred Alternative were calculated using an expanded version of the Tracy City-wide TRACS model. In addition to the seven new TAZ's, nine additional intersections--potential points of traffic congestion--were selected for analysis:

- East Street/Grant Line Road
- East Street/Eleventh Street
- MacArthur Drive/Grant Line Road
- MacArthur Drive/Eleventh Street
- MacArthur Drive/Valpico Road
- MacArthur Drive/Linne Road
- Corral Hollow Road/Valpico Road
- Corral Hollow Road/Linne Road
- Tracy Boulevard/Linne Road

Table 4.8

I-205 and I-580 Mainline Volumes - PM Peak Hour
(50 Percent Build-Out)

Location	1985* Existing Volume	Volumes Added by Specific Plan Including Residential	Total <u>Volumes</u>
<u>I-205</u>			
West of Eleventh Street Interchange			
Westbound Eastbound Total	4,100	720 1,190 1,910	 6,010
East of MacArthur Drive Interchange			
Westbound Eastbound Total	 3,450	390 860 1,250	 4,700
<u>I-580</u>			
West of Corral Hollow Interchange			
Westbound Eastbound Total	 1,900	170 80 250	 2,150
East of Chrisman Road Interchange	· ·		
Westbound Eastbound Total	 730	130 60 190	 920

^{*}CalTrans, 1985 Traffic Volumes

Table 8.5

I-205 and I-580 Mainline Volumes - PM Peak Hour
(70 Percent Build-Out)

	<u>ocation</u> :	1985 Existing Volume	Volumes Added by Specific Plan Including <u>Residential</u> *	Total Volumes
<u>I-205</u>				
	of Eleventh Street nterchange			
E	Vestbound Eastbound Total	4,100	790 1,220 2,040	 6,140
	f MacArthur Boulevard nterchange			
E	Vestbound astbound 'otal	 3,450	550 1,200 1,750	 5,200
<u>I-580</u>				
	of Corral Hollow nterchange			
E	/estbound astbound otal	 1,900	240 120 360	 2,260
	f Chrisman Road iterchange			
E	estbound astbound otal	 730	90 180 270	1,000

[:] *CalTrans, 1985 <u>Traffic Volumes</u>

Table 8.6

I-205 and I-580 Mainline Volumes - PM Peak Hour
(100 Percent Build-Out)

Location	1985 Existing <u>Volume</u>	Volumes Added by Specific Plan Including <u>Residential</u> *	Total Volumes
<u>I-205</u>			
West of Eleventh Street Interchange			
Westbound Eastbound Total	 4,100	900 1,260 2,160	 6,250
East of MacArthur Boulevard Interchange			
Westbound Eastbound Total	3,450	780 1,720 2,500	 5,950
<u>I-580</u>			
West of Corral Hollow Interchange			
Westbound Eastbound Total	 1,900	340 170 510	 2,410
East of Chrisman Road Interchange			
Westbound Eastbound Total	 730	260 130 390	 1,120

^{*}CalTrans, 1985 <u>Traffic Volumes</u>

build-out and 50 percent over capacity under the 100 percent build-out scenario. While some traffic may divert to either the Tracy Boulevard interchange to the west or use Grant Line Road to access I-5 interchanges at Berry Road and Kasson Road to the east, demand at the MacArthur/I-205 eastbound ramp will likely approach capacity (approximately 1500 vehicles per hour) during the p.m. peak. It may be necessary to develop a higher capacity interchange at this location.

Mainline I-205 volumes would be between 5,500 and 6,500 both east and west of the City under the two alternative scenarios. (See Tables 8.4 and 8.5). Under the 100 percent build-out scenario, the current two eastbound lanes I-205 would likely be at capacity in the p.m. peak hour east of the MacArthur interchange. Widening I-205 to six lanes would mitigate the traffic of development in Tracy; however, developments in communities east of Tracy will be adding additional traffic during the same timeframe as the Tracy Residential and Industrial Specific Plans. Such cumulative development in the I-205 corridor needs to be assessed before planning improvements on I-205.

In contrast to I-205, I-580 ramps and mainline lanes in the study area will have considerable excess capacity, even under the 100 percent build-out scenario.

AGENDA SPECIAL MEETING TRACY CITY PLANNING COMMISSION JUNE 1, 1988 7:30 P.M. TRACY COMMUNITY CENTER 300 E. TENTH STREET

ROLL CALL

MINUTES APPROVAL

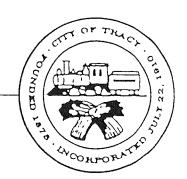
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- 1. OLD BUSINESS
 - A. REVIEW OF THE INDUSTRIAL AREAS SPECIFIC PLAN TEXT AND FINAL ENVIRONMENTAL IMPACT REPORT FOR THE CITY OF TRACY
- 2. <u>NEW BUSINESS</u> None
- 3. ITEMS FROM THE AUDIENCE
- 4. <u>DIRECTOR'S REPORT</u>
- 5. ITEMS FROM THE COMMISSION
- 6. <u>ADJOURNMENT</u>

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PLANNING COMMISSION Staff report



OLD BUSINESS NO. 1-A

June 1, 1988

APPLICATION NO./APPLICANT:

#10-88-GPA City of Tracy

I. INTRODUCTION

A. REQUEST

The City, in cooperation with industrial landowners, hired EDAW, Inc., a planning consultant, to prepare an Industrial Specific Plan. A draft of this plan and an EIR were prepared in October, 1987. After repeated review and discussion with industrialists and others, a revised draft plan and Final EIR is presented for your review.

Bill Clark and Shelly Poticha of EDAW will present the plan to the Commission.

II. DISCUSSION

The proposed Specific Plan implements the City General Plan goals of balancing residential development with new local jobs, improving traffic circulation, especially of trucks, and enhancing the quality and compatibility of land uses.

The plan sets thresholds of 50%, 75%, and 100% of the buildout of 685 acres of industrial development including 5,608,000 square feet of various industrial development at 50% buildout (see Page 2-11 of the EIR.) Beyond the 50% threshold, additional environmental review will be needed as well as the improvement of traffic circulation on MacArthur Drive.

The Plan calls for amendments to the Airport Overlay Zone and establishment of a sand and gravel reclamation ordinance, to facilitate industrial development (page 4-3 & 4). Chapter 4 sets forth standards for design that emphasize the appearance of development visible from the public street through landscaping and architectural criteria.

The cost of implementing the plan is listed in Chapter five. The mechanisms available to finance these costs are identified. Determination of which finance vehicles to use is being discussed with industrialists.

III. RECOMMENDATION

Staff recommends that the Planning Commission:

- 1) Recommend that the City Council certify that the Final EIR has been completed in compliance with the California Environmental Quality Act, and that the information containd in the Final EIR was reviewed and considered prior to approving the Industrial Areas Specific Plan for Tracy and that the Final EIR is adequate to address the environmental impacts of the approval of the Industrial Areas Specific Plan as an amendment to the Tracy General Plan.
- 2) Recommend that the City Council approve and adopt the Industrial Areas Specific Plan and recommend that the City Council amend the Tracy General Plan to incorporate the Industrial Areas Specific Plan as an addendum.

Attachment:

Final Environmental Impact Report

(The Industrial Specific Plan and Draft EIR previously delivered to the Commission under separate cover should accompany this staff report)

02-0527.88

DRAFT

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Introduction & Summary of Impacts

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1. INTRODUCTION AND SUMMARY

1.1 Introduction

In conformance with the California Environmental Quality Act (CEQA) as well as the State CEQA Guidelines and City of Tracy procedures, this document has been prepared to facilitate an objective assessment of the individual and collective environmental impacts associated with the proposed project: <u>Tracy Industrial Areas Specific Plan</u> (Industrial Specific Plan). This Environmental Impact Report (EIR) is intended to inform governmental decision-makers and the public of:

- Existing conditions on and near the proposed planning area including the recently adopted Tracy Residential Areas Specific Plan;
- Potential environmental impacts resulting from implementation of the proposed plan;
- Actions which could mitigate any <u>significant</u> environmental impacts.

The existing General Plan and Zoning Ordinance for the proposed planning area reflect a similar combination of land use types as is proposed. However, specific locations of land uses do differ. According to California Governmental Laws, a Specific Plan must be consistent with the community's General Plan. Therefore, the first step toward adopting the Industrial Areas Specific Plan will be an amendment to the City of Tracy General Plan Map and Text, requiring approval by the City Council. This action, along with the required review of potential impacts from implementation of the Industrial Areas Specific Plan fall under the guidelines of CEQA and necessitate the preparation of an EIR.

The proposed Specific Plan will establish guidelines for numerous projects which will be undertaken by public and private developers over an extended period of time. Section 15165 of the State EIR Guidelines requires an EIR for such a proposal to consider the cumulative effects of all development to be allowed by the proposed Specific Plan. This EIR will act as an umbrella for all future projects within the Specific Plan area which comply with its guidelines.

This document is to be considered a Master Focused Environmental Impact Report due to the reasons stated above, and also because the environmental analysis focuses on the effects determined to be potentially significant in the Initial Study.

Information on this study has been given to the public through a formal scoping meeting, which was open to both governmental agencies and individuals. Upon completion, this and future documents will be circulated to local, state, and federal agencies, as well as public libraries.

In this Draft EIR, references to the "proposed project" shall refer to the Tracy Industrial Areas Specific Plan. References to the "project proponent" shall refer to the City of Tracy.

1.2 Summary of Impacts

Impacts	Mitigable	Comments	
1. Geology and Soils			
Some soils may have slow water permeability and high shrink-swell capacity.	Yes	Foundations which divert water runoff will mitigate this impact.	
Low to moderate earthquake threat.	Yes	Buildings must be in compliance with standard California building codes.	
2. Hydrology and Water Quality			
Delta-Mendota Canal surface water allocation must be used at maximum and will be exceeded. Treatment Plant does not have sufficient capacity.	Yes	Expand water allotment to maximum. Expand Water Treatment Plant or Increase use of groundwater as an additional water source.	
Drainage patterns will be altered due to the increase in impervious surfaces.	No	Storm Drainage Master Plan provides a system of conveyance to limit this impact.	
Decrease in groundwater recharge within the planning areas.	No	Based on historic patterns, this impact is expected to be minimal.	
Increased water-borne pollutants as a result of urban water runoff.	No	Design features in the storm drainage system, such as constant minimum flows and catch basins will mitigate this impact to a level of insignificance.	
Groundwater from existing wells is high in total Dissolved Solids and sulfate concentrations.	Yes	Upgrade and/or abandon existing wells. New wells will avoid this problem.	
3. Air Quality			
The proposed development will result in increased emissions of various air pollutants, primarily from mobile sources.	No	Providing local employment may reduce current trend and extent of commuting to the Bay Area, thus reducing mobile source pollution.	

4. Biotic Resources

Loss of existing vegetation and wildlife and introduction of ornamental plants.

No

Loss of existing vegetation and wildlife is a normal consequence of development. Introduction of new species can be limited through selective planting.

5. Land Use and Land Use Planning

Existing land uses will be converted to urban uses.

No

In the 1982 General Plan EIR, the City found socioeconomic considerations justified the conversion of agricultural land for the provision of jobs and a balanced community. Although the permanent change may be unavoidable, it is assumed that this impact will be an adverse one to some, and a positive improvement to others.

Land must be acquired for off-site infrastructure improvements.

Yes

The Financing Plan establishes guidelines for financing these improvements.

Proposed land uses are not consistent with those designated on the General Plan Map.

Yes

Approval of the proposed General Plan amendment will mitigate this impact.

6. Transportation

Three off-site intersections will be impacted by traffic generated from the Specific Plan.

Ycs

Off-site improvements will mitigate this impact.

Traffic on existing city streets will increase.

Ycs

On- and off-site improvments will mitigate this impact.

Mainline traffic on I-205 will significantly increase from development in the Specific Plan areas, as well as from nearby communities.

Yes

Local governments should work to secure funding for widening I-205. Paratransit programs could also reduce this impact.

7. Noise

Noise levels will increase within the Specific Plan areas.

Yes

Setbacks and soundwalls along proposed arterial streets will mitigate

impacts. Adherence to Uniform Building Codes will also reduce noise impacts within nearby dwellings.

8. Utility Systems

The existing water supply and treatment system is not sufficient to service the Specific Plan areas.

Yes

Increasing the treatment plant
capacity and expanding groundwater
sources and the water distribution
system as planned, will mitigate this

impact.

Temporary interim storm drainage systems will be required prior to completion of the main storm drainage network.

Yes Guidelines for interim systems are proposed. Studies of the hydraulic design of the main system should be made prior to any development within the Specific Plan areas.

Existing solid waste facilities do not have sufficient capacity to provide service to the Specific Plan areas at build-out.

A new waste disposal site shall be selected and developed.

9. Public Services

Police staff and facilities must be expanded.

Ycs

Yes

Mitigable

The Plan recommends that the existing police facility should be expanded at its present site.

Additional staff for governmental departments will be required.

Yes

Studies should be made to determine stuffing needs. Funds are available.

Additional maintenance facilities will be required to maintain the new public works infrastructure.

Yes

Studies should be made to determine maintenance facility needs.

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Project Description

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2. PROJECT DESCRIPTION

2.1 Site Location

The City of Tracy is located on the western edge of the San Joaquin Valley, along the Interstate 580/205 Corridor, approximately 25 miles southwest of Stockton and 20 miles east of Livermore (Figure 2.1).

The land addressed by the proposed Industrial Areas Specific Plan abuts existing urban development along the east and south edges of the City of Tracy. All 643 acres of the proposed project area are within the city limits (Figure 2.2).

2.2 Site Conditions and Planning Designations

Presently, the proposed project area is primarily made up of active and dormant agricultural lands in the northeastern and southern portions of the City. Most of the northeastern parcels form the outer edge of the community, bounded on the east by heavy residential development. Uses adjacent to the southern parcels include smaller residential communities, active industrial areas and the Tracy Municipal Airport.

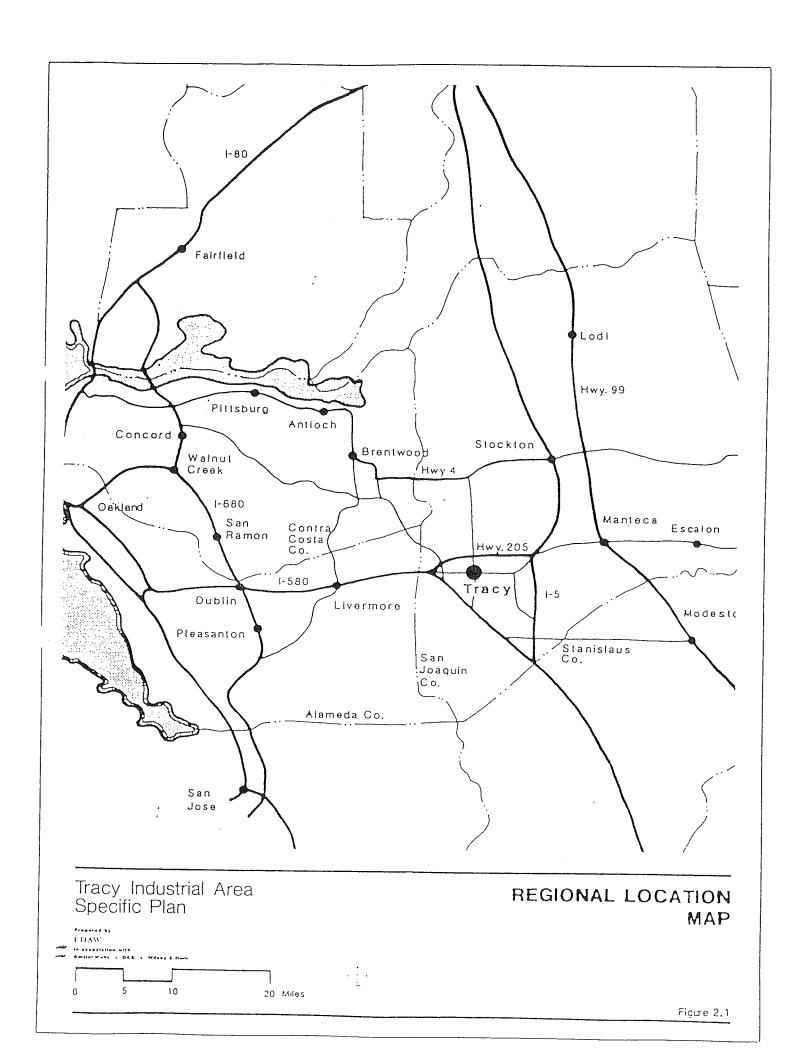
Irrigation district channels and railroad tracks cross some parcels, dividing the land and creating certain constraints to its development. A portion of the channels, however, are no longer actively used for irrigation and are often not connected with the main irrigation system.

The existing transportation network within the area consists almost exclusively of rural roads. However, arterial streets run adjacent to many of the parcels, providing easy access to downtown Tracy which is less than two miles from most portions of the proposed project and contains a variety of local-serving retail businesses.

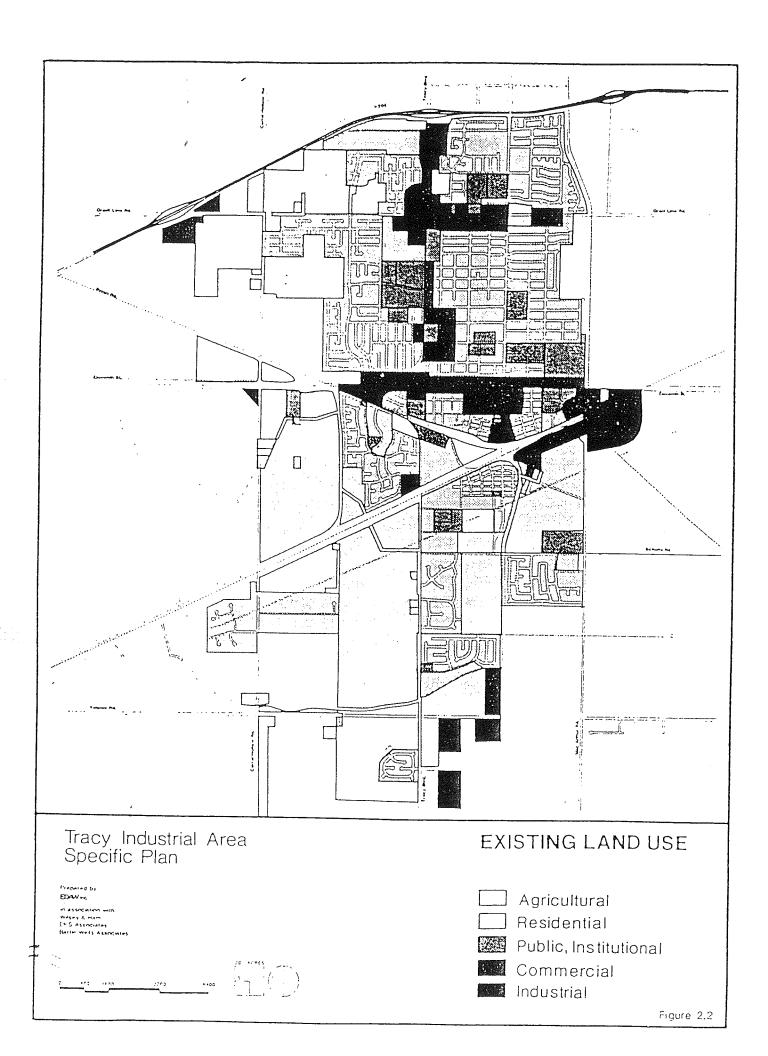
All of the land within the proposed Industrial Specific Plan area is designated by the General Plan as either Limited Industrial (LI) or General Industrial (GI) (Figure 2.3). With the exception of parcel seven, all parcels are zoned as Light Industrial (M-1). Parcel nine additionally falls within the Tracy Municipal Airport overlay zone (Figure 2.4).

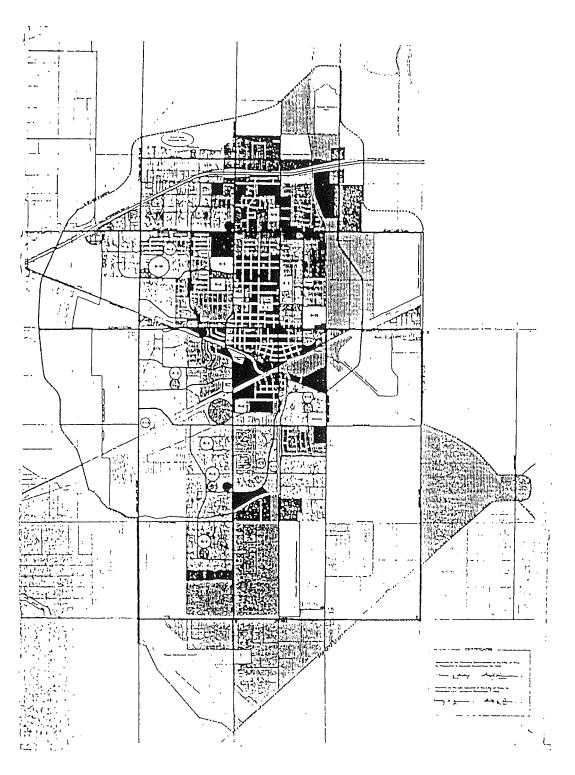
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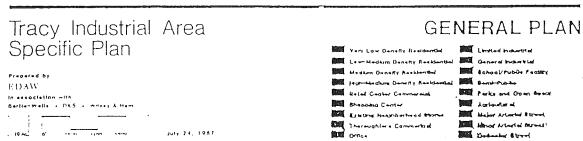
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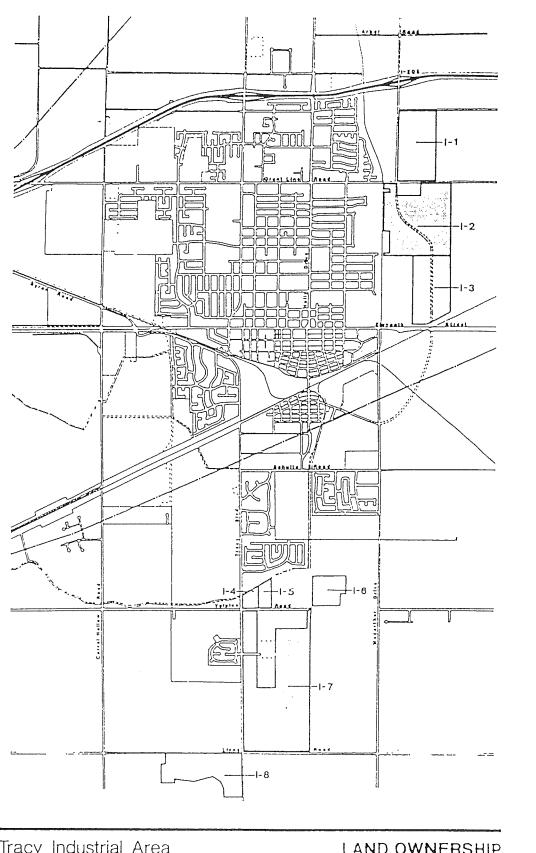
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Tracy Industrial Area Specific Plan

LAND OWNERSHIP

[-1] Reference Number

Figure 24

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In 1984, Sewer Assessment District 84-1 was established which financed the expansion of the City's existing wastewater treatment facility and construction of sewer lines to the Specific Plan areas as well as to other areas of the City. These improvements were completed in early-1987.

2.3 Project Description

In 1982, during the process of updating the General Plan, the City of Tracy identified the land within the currently proposed Industrial Areas Specific Plan as land to be targeted for industrial development. The acreage was subsequently annexed to the City and Assessment District 84-1 was created to finance sewer improvements for both the industrial areas and certain residential areas. An industrial specific plan, predicated on the recently adopted Residential Areas Specific Plan, was then proposed for the expansion areas as a mechanism to prepare a comprehensive land use program, coordinate the development plans of the individual property owners, and provide a strategy for constructing essential public improvements.

Because it is expected that additional residential development will occur within Tracy before the Industrial Specific Plan areas are fully developed (Figure 2.5), and therefore sewer, water, storm drainage and roadway capacity will be both used and needed in quantities that cannot be estimated at this time, this EIR assesses the potential impacts associated with 50 percent build-out of the Industrial Areas Specific Plan. At that time, additional plans will be available concerning the proposed location and amount of future residential development, and a subsequent EIR would be better able to assess the cumulative impacts associated with the next increment of community growth. The potential impacts that can be currently estimated with 70 and 100 percent build-out are discussed in the alternatives analysis (Section 8).

2.3.1 The Development Plan

2.3.1.1 Land Use Concept

The overall land use concept the Tracy Industrial Specific Plan is intended to provide a framework for land development which coordinates public improvements, yet allows flexibility in land use choices to respond to future market conditions. In order to accomplish this, two zoning categories, Limited and General Industrial, are designated for the areas addressed by the

Figdate 2.5

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20 years	100%			
15 years	70% 111111111111111111111111111111111111			
10 years	50% 70% 100% 100% 100% 100% 100% 100% 100	100%		
5 years				
	Industrial Areas Specific Plan (Assessment District 84-1)	Residential Areas Specific Plan (Assessment District 84-1)	Phase II Residential Development	Phase II Industrial Development

Specific Plan (Figure 2.6). These categories allow a variety of office, industrial and warehousing uses. Heavy industrial uses are allowed in areas with a General Industrial designation and may require additional environmental review if environmental performance standards will not be achieved. Design guidelines are provided in the plan which pertain to site development requirements, parking and on-site circulation, building architecture, lighting, signage and landscaping. Standards are also given for design and development of the roadway and storm drainage systems.

Two tables are provided to supplement the Industrial Areas Specific Plan Land Use Map (Figure 2.6). Table 2.1 describes the land use designations and sewer allocations for each parcel covered by the plan. Table 2.2 represents a typical development scenario at 50 percent build-out. While future development patterns may not result in these exact proportions of land use types and gross square footages, this scenario indicates what is likely to occur given current industrial development trends and the Specific Plan's development guidelines.

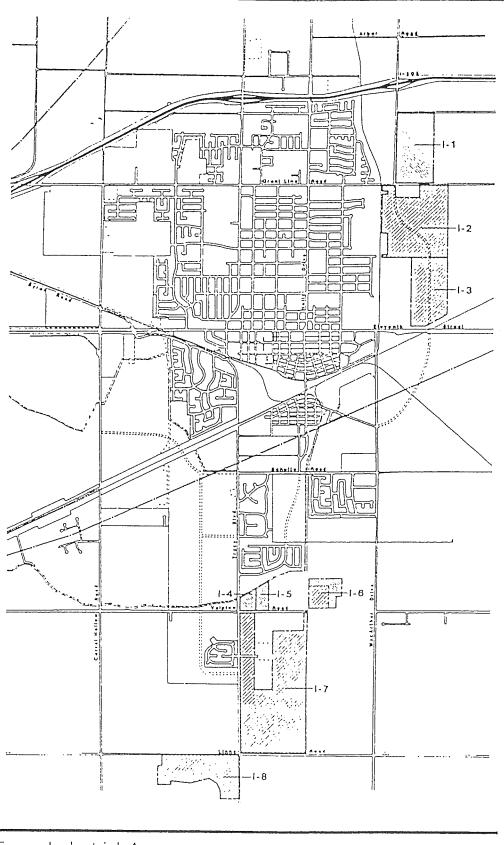
A unique feature of the Industrial Specific Plan are the "Environmental Performance Standards" and "Threshold Guidelines." These guidelines establish limits on the amount and type of industrial uses, based upon the availability of infrastructure capacity and the potential for environmental pollutants.

2.3.1.2 <u>Circulation Concept</u>

As the Specific Plan is implemented, Tracy's roadway network will change from a system of rural roads to a network of improved arterial and collector streets capable of providing continuous access throughout the Specific Plan area, and to and from the existing community. The proposed plan specifies the existing roads which will be improved and new roads that are necessary to complete this network. Truck routes will be limited to streets adjacent to industrial areas. Table 2.3 lists the arterial streets which will make up the basic roadway network within the Specific Plan areas and identifies which of these will be part of the truck route system (Figure 2.7).

Since it is predicted that a large proportion of the areas business traffic will be transporting goods to surrounding cities, the local circulation system will be improved to provide better links with regional transportation routes.

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Tracy Industrial Area Specific Plan

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LAND USE

Limited industrial

General industrial 1-1 Reference Number 1.1111 Proposed Roadways

Figure 26



Table 2.1

Industrial Areas Specific Plan

Land Use Program

Development Parcel	Property Owner:	Total <u>Acres</u>	General Industrial <u>Acres</u>	Light Industrial <u>Acres</u>
I-1	Interland	76.42	0	76.42
I-2	Santa Fe Pacific	142.13	142.13	0
I-3	Pombo	74.29	74.29	0
I-4	Murphy	10.00	0	10.00
I-5	Murphy	10.00	()	10.00
I-6	Cosc	34.09	16.53	17.56
I-7	Union Pacific	221.58	221.58 a	0
1-8	Teichert	74.95	74.95 b	0
	Totals	643.46	529.48	113.98

a 48.21 acres within this designation are within a Design Review Overlay Zone.

b 74.95 acres within this designation are within the Airport Overlay Zone.

Table 2.2 TRACY INDUSTRIAL AREAS SPECIFIC PLAX ALTERNATIVE PROGRAM SUMMARY TABLES

501 Build-out/ Preferred Alternative

	*****	· · · · · ·		OFFICE		BENERAL	/ LIGHT IND	RISIS	WAREHO	USE / DISTR	I BUT LOX	TOTAL	TOTAL
PARCEL ACREAGE	MET ACREAGE	1	s.f.	Xet Acres	ī	5.8.	Met Acres	1	S.F.	ket Acres	5.1.	[sployers	
1-1	76.42	41.94	101	66,320	5.25	471	279,651	21.86	481	325,175	79.86	671,146	1,135
1-2	142.13	120.B1	101	126,324	10.00	121	318.843	55.40	481	407,304	55.40	1,248,473	2,118
1-3	74.29	43.15	81	50,530	1.00	431	271,029	29.58	501	322,126	29.58	619,681	1,073
1-4	10.00	8.50	251	22,738	1.80	351	31,374	3.35	401	36,432	3.35	90,591	179
1-5	10.00	8.50	221	21,475	1.70	01	. 0	0.00	781	74.052	4.80	95,527	166
1-1	34.09	78.98	51	15,791	1.25	111	174,373	13.28	531	160.519	14.74	300,682	178
1-7	221.58	188.34	01	0	0.00	461	881,940	91.17	511	1.025.511	91.17	1,907,451	2,869
1-8	74.95	63.71	01	0	0:00	461	298,382	31.86	511	344,955	31.84	645,337	971
Totals	812.18	546.94	101	303,178	21.00	371	2,411,591	257.50	221	2,894,126	265.76	5,608,895	8,989

PLANKING FACTORS:

- * IST of gross acreage to roads and drainageways
- * Net acreage * gross acreage less roads and drainageways
- * I * percentage of parcel's total square-footage
- + Parling factors:

 - 1/300 s.f. office 1/600 s.f. light industrial
 - 1/800 s.f. warehouse / disribution
- + Site Utilization factors:
 - Office: 2 story, 291 building, S&I parting, 151 landscaping/circulation
- Light industrial: 1 story, 431 building, 241 parking, 331 landscaping/circulation
 Warehouse/Distribution: 1 story, 501 building, 211 parking, 291 landscaping/circulation
- + Parking coverage analyzed at 330 s.1. per car

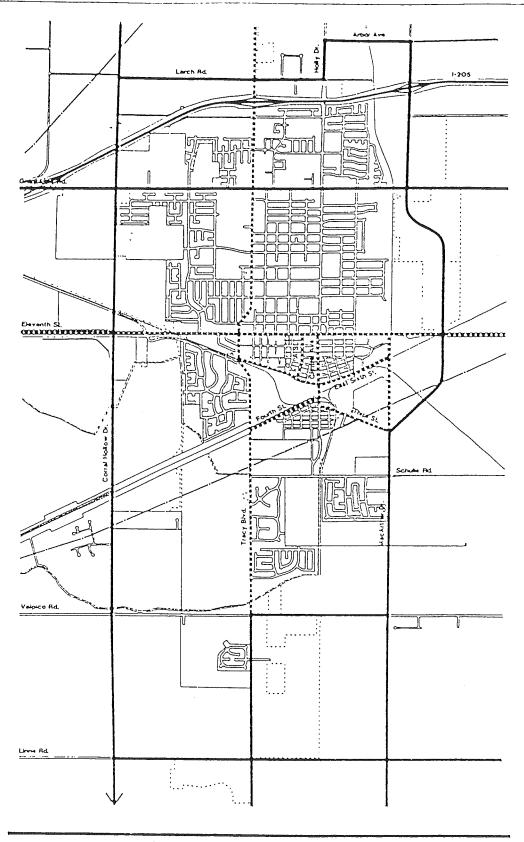
Table 2.3

Specific Plan Major Arterial Streets

Roadway	Segment
Grant Line Road	Chrisman Road to I-205
Corral Hollow Road	Grant Line Road to Schulte Road
Tracy Boulevard	Centre Court to Linne Road
MacArthur Drive	Schulte Road to I-205
Schulte Road	Corral Hollow Road to MacArthur Drive
Valpico Road	Corral Hollow Road to Chrisman Road
Linne Road	Corral Hollow Road to Chrisman Road

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Tracy Industrial Area Specific Plan

TRUCK ROUTES

EDAW

in accordation with Burtlet with a Did to Winney & Ham

Truck Routes

..... Temporary Truck Routes

Figure 2.7

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This EIR only assesses the potential transportation impacts associated with roadway improvements required to provide adequate capacity for 50 percent of the total potential build-out of the Industrial Specific Plan areas. These improvements include:

- Widening MacArthur Drive to four lanes from I-205 south to Schulte Road.
- Construct the extension of Valpico Road west of MacArthur Drive as a two-lane facility.

2.3.1.3 Storm Drainage Concept

The system proposed in the Industrial Areas Specific Plan will implement the adopted Storm Drainage Master Plan. The proposed system divides presently unserviced areas of the City into two drainage areas. The west side system will drain the lands north of Linne Road and west of Central Avenue. All flows will drain to a basin, which will be located north of Interstate-205, and eventually flow easterly to Sugar Cut. The east side system will drain the parcels adjacent to MacArthur Drive, collect in a temporary basin at Eleventh Street and MacArthur Drive, and flow northerly to Sugar Cut. The parcels below Linne Road will provide their own on-site drainage facilities.

An additional feature of the system is its use as an open space and recreational amenity. Storm drainage channels will be landscaped and their rights-of-way will include pedestrian and bicycle paths.

2.3.1.4 Utilities

The primary objective of the Industrial Areas Specific Plan, as it pertains to utility systems, is to ensure that new industrial development is provided with adequate service prior to development. The utilities concept refers to sewer, water, solid waste, electric and natural gas systems.

Wastewater System

The City of Tracy is currently implementing capital improvements to the existing sewer plant and wastewater collection system to expand treatment capacity. This expansion is being financed by

the 84-1 Assessment District and will be completed prior to development in the Specific Plan areas. The 84-1 Assessment District also provides capacity to the Residential Specific Plan areas and infill parcels within the City.

Municipal Water System

The City maintains its own municipal water and treatment facilities. Currently, the treatment plant is operating at capacity, able to process only 70% of its annual entitlement from the Delta-Mendota Canal.

In addition to this more immediate need for increased treatment capacity, long range forecasts indicate that as the Industrial and Residential Specific Plan areas grow, another water supply source will need to be found as well.

Solid Waste

The solid waste disposal site currently used by the City of Tracy is a joint operation between Tracy and San Joaquin County. The site is located at the southeasterly corner of Corral Hollow Road and Interstate-580. All solid waste generated within the Specific Plan areas will be sent to this site or a new waste disposal site, once selected.

Gas and Electric

Natural gas and electric power will be provided to the users within the Industrial Specific Plan areas by Pacific Gas and Electric.

2.4 Proposed General Plan Amendment

The City of Tracy is proposing a General Plan Amendment to allow the Industrial Areas Specific Plan to conform to the General Plan as required by Government Code Section 65450. The adoption of the Specific Plan will simultaneously effect an amendment to the General Plan map and text.

The General Plan Map would be amended to reflect the land use designations identified on the Specific Plan Preferred Alternative Land Use Map. The goals and policies of the current General Plan would remain unchanged.

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Environmental Setting

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3. ENVIRONMENTAL SETTING

3.1 Physical Elements

3.1.1 Geology and Soils

Tracy lies in the upland valley portion of the Central Valley geomorphic province. From the edges of the Delta, the upland valley rises gradually in elevation toward the west and the southwest. Most of the area lies at elevations between sea level and 100 feet (30 meters) above sea level. The upland valley, flat and featureless in most places, is broken by the bottomlands of the major rivers and the smaller streams. It has been extensively leveled and graded in the course of cultivation and urban development.

The soils of the upland valley consist of mineral alluvium, produced through the crosion of rocks in the surrounding mountains and foothills and transported to the valley floor by rivers and streams.

A number of systems are presently in use for classifying soils on the basis of their usefulness for agriculture. The two most widely used in California are the Storie Index, developed by the University of California, and the Land Use Capability System, developed by the Soil Conservation Service of the United States Department of Agriculture.

The Storic Index classifies soils on a 0-100 numerical scale on the basis of the number of types of crops that they can support. The Land Use Capability System assigns soils to Classes I through VIII on the basis of the number of problems they present for plant growth, with Class I soils presenting the fewest problems. Class I and II soils under the Land Use Capability System and soils rated 80-100 under the Storic Index are usually considered prime. Prime soils within the Tracy Sphere of Influence are generally located southeast of the city.

A majority of the soils south of the railroad tracks are a mix of Los Robles gravelly Clay Loam and Rincon Clay Loam. These soils have moderate to slow permeability of water and moderate to high shrink-swell capacity.

The northern portions of the Specific Plan areas are characterized by some Rincon Clay Loam soils and Capay Clay soils. Permeability of the Capay soil is slow and available water capacity is high. This soil type also has a high shrink-swell capacity.

Due to the nature of these soils, potential impacts from water crosion are unlikely.

3.1.1.1 Geologic Hazards

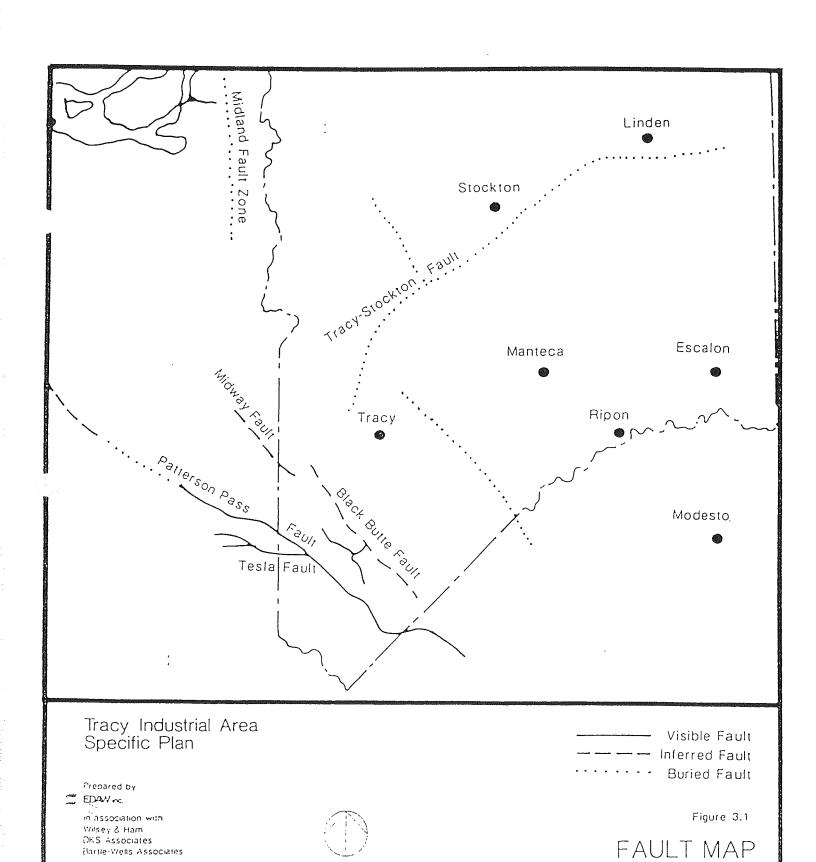
During the tectonic development of California, numerous faults were developed in the bedrock of both the Coast Range to the west and the Sierra Nevada to the east. A few faults have also been delineated as cutting sediments of the Central Valley. Faults which have historically been the source of earthquakes felt in Tracy include the San Andreas, Calaveras, Hayward, Midland, Green Valley and Tracy-Stockton.

The Tracy area itself has a low to moderate seismic history. In the past it has been subject mainly to ground motions from several earthquakes at moderate to great distances, perhaps up to more than 100 miles. None of these earthquakes had a magnitude greater than 3.9 on the Richter Scale within Tracy.

Figure 3.1 illustrates the faults which are most important to the proposed project site. They include the Tracy-Stockton Fault and the San Joaquin Fault.

Subsurface data indicate that no appreciable movement has occurred on the Tracy-Stockton Fault for five million years or more. Ordinarily, this would indicate that the fault is inactive, and therefore poses no threat. However, inconclusive evidence of activity was found at the eastern edge of the fault in 1881 and 1940. Therefore, it is not certain whether this is an active fault, although experts indicate the possibility of a 5.0 magnitude earthquake should one occur.

The San Joaquin Fault extends from Tracy to Los Banos, paralleling the I-5 freeway. Geologic studies show that the zone has sustained activity during the Quarternary period, but no significant earthquakes have been felt in Tracy.



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3.1.2 Hydrology and Water Quality

3.1.2.1 Hydrology

Surface Hydrology

Within the project area, the irrigation canals and drainage systems are the sole sources of surface oriented water. There are no lakes, streams, vernal ponds or other water resources on any parcel in the plan areas. Currently the City is working to integrate these networks into a Storm Drainage Master Plan as part of its effort to both consolidate the system and facilitate service to the Industrial and Residential Specific Plan areas.

Ground Water Resources

The foothills southwest of Tracy is the watershed area for the City's water system. Surface water percolates through superficial alluvial deposits into a groundwater basin of the Tulare Formation and Corcoran clay. This lower clay level effectively divides the basin into two aquifers, an upper zone which is subject to contamination from Delta water and thus produces water of poor quality and a lower zone yielding higher quality fresh water. However, at depths above 900 feet the lower aquifer may become brackish because of mixing with recharge from the San Joaquin River System. This system is the principal source of groundwater recharge for the upper aquifer. No part of it lies within the Specific Plan areas (Tracy General Plan).

Storm Drainage

The topography of the greater Tracy area is such that there is no inflow of surface water from outside the study area. Lands to the north and east drain northerly toward the San Joaquin River. Corral Hollow and the foothill areas drain in generally easterly directions. Land to the west drain generally northeasterly and do not contribute to storm flow within the study area.

The prevalent drainage pattern is overland flow in a generally northern direction to interception by a conveyance system. This conveyance system can be categorized as follows:

- a. Gravity flow
- b. Pumped flow
- c. Detention basins
- d. Retention ponds

One portion of the existing gravity collection system flows to the City's outfall channel which extends northerly from Grant Line Road to Sugar Cut, between Holly Drive and MacArthur Road. A second gravity outlet utilized for stormflow is the Westside Irrigation District (WSID), Main Drain, which flows northwesterly to the WSID main intake canal at the Old San Joaquin River.

The pumped drainage flow area generally lies north of Grant Line Road and west of Balboa Avenue. Under the Tracy Boulevard Assessment District (TBAD) project in 1979 a new major pumping station was installed on Larch Road.

Until 1978, only the older portions of the City had a continuous storm drainage system. With new development in the southern areas, a temporary system of detention basins was built. There are seven retention basins currently scattered throughout the southern portion of the City. The City, however, has expressed dissatisfaction with the retention basin concept and desires to ultimately eliminate these facilities.

The conduit system within the presently developed areas is adequate to handle a 10-year storm with temporary ponding. The present capacity of the Main Drain discharge point is limited by the size of several downstream culverts and siltation in some reaches. Present capacity is approximately 45 cfs. With minor improvements, capacity of the drain could be increased to nearly 200 cfs. An agreement between the City and WSID permits a discharge rate to the Main Drain of 20 cfs. This is presently the limiting peak flow in the storm drain system. Any additional tributary flow would increase the peak, and the City would have to incorporate a detention system in order to meter discharge into the existing system or negotiate with the WSID for increased capacity.

To expand and coordinate the city-wide storm drainage system, the City has adopted a multiple criteria policy, as discussed in the Storm Drainage Master Plan, for future drainage system design. The policies are as follows:

- a. The 100-year storm is to be contained within the right-of-way of the public street.
- b. The 10-year storm is to be contained within the top of the street curb.
- c. Storm drain facilities will be required where either of the above conditions cannot be satisfied.

The adopted criteria are intended primarily for new construction and make use of the surface capacity of the streets as a part of the detention/discharge system.

The Tracy area, historically, is an agricultural community, and therefore contains numerous irrigation systems, including canals and pipelines, being served by the Westside Irrigation District, Banta-Carbona Irrigation District and El Pescadero Irrigation District. As development occurs, more land is removed from agricultural uses, which also reduces the need for irrigation systems. It is the City's intent, as stated in the Storm Drainage Master Plan, to utilize the irrigation canals as drainage channels where physically possible.

The Storm Drainage Master Plan, as adopted, and revised for both the Industrial and Residential Specific Plans, includes only one permanent detention basin which is to be located north of I-205 on an extension of the Corral Hollow Road alignment. A temporary retention basin is located near Eleventh Street at the extension of MacArthur Drive. This basin will be phased out when the downstream conveyance channel is constructed.

The Master Plan, as adopted, indicates development of a system that would discharge all increased flow due to new development through this detention facility to Sugar Cut Canal. Negotiation with the WSID continue, however, for rights to discharge additional runoff to the Main Drain.

3.1.2.2 Water Quality

Ground water quality in the Tracy area is generally considered poor for two reasons. First, the level of total dissolved solids found is often more than twice the 500 parts per million (ppm) desired maximum and seems to be increasing. Secondly, the levels of calcium carbonate, which measure water hardness, are often more than three times as high as the 100 ppm desired maximum. Additional problems, as suggested earlier, stem from contamination from Delta water (Tracy General Plan).

3.1.3 Climate and Meteorology

The Tracy planning area shares the Mediterranean-type climate of the Great Central Valley, with its hot, rainless summers and cool, moist winters.

The mean temperature at Tracy is 94.7F for July and 43.5F for January. Summer nighttime temperatures usually drop to the low sixties Fahrenheit, resulting in summer daily temperature ranges of as much as 35F. Temperatures often drop to or slightly below freezing on winter nights, rising to the low fifties Fahrenheit during the days.

Mean annual precipitation in Tracy is approximately 10 inches. Over 90 percent of the precipitation is brought on by northwesterly Pacific storms between November and April. Infrequent spring and summer thunderstorms, usually from the south, bring most of the remainder. Prevailing winds are from the northwest.

Dense radiation fogs ("tule fogs") are a prominent characteristic in fall and winter. They normally form at night and dissipate during the day, but under stagnant atmospheric conditions in January and February, fogs may persist for four to five weeks with only brief clearings.

San Joaquin County has the longest average growing season in the Central Valley, with an average period of approximately 280 days between killing frosts in the vicinity of Tracy (Tracy General Plan, 1982).

3.1.4 Air Quality

3.1.4.1 Air Quality Factors

Climate may be the single most important factor influencing smog concentrations in the San Joaquin Valley air basin. Violations of smog standards in the basin have historically occurred between April and October, with the worst violations occurring when the temperature approached or exceeded 100F. There are several meteorological factors characteristic of the San Joaquin Valley which combine to create high smog concentrations:

- The San Joaquin Valley experiences high summertime temperatures, which accelerate the rate of smog formation.
- The valley is dominated by high pressure in the summer, creating stable air with low wind speeds. As a result, there is very little atmospheric mixing and pollutants do not readily disperse.
- Temperature inversions (an increase in temperature with height) frequently trap pollutants close to the ground, thereby increasing the pollutant concentrations and further inhibiting dispersion.

Tracy is located approximately in the middle of the Sacramento/San Joaquin Valley, which is about 500 miles long and 100 miles wide. The trough-like configuration of the Valley forms an ideal trap for pollutants. Mountain ranges surrounding the Valley restrict the horizontal airflow and often present temperature inversions which prevent the air from rising vertically above the height of the mountains. Despite the northwesterly prevailing winds, the area's geographical features, in effect, form a bowl and the inversions act as a lid on the bowl, preventing the escape of pollutants that enter the Valley's atmosphere. As the level of the inversion lowers, the pollutants are trapped in smaller volume of air, increasing their concentration, (Tracy General Plan, 1982).

3.1.4.2 Air Quality Standards and Management Plans

San Joaquin County has been identified by the California Air Resources Board and the U.S. Environmental Protection Agency as an area with an air pollution problem, and is designated as being within the San Joaquin-Stanislaus County Air Quality Maintenance Area (AQMA), established in an effort to meet the National Ambient Air Quality Standards (NAAQS).

These national standards have been established as a result of the Clean Air Act. They are divided into primary standards which are designed to protect the public health and secondary standards which are intended to protect the public welfare from effects such as visibility reduction, soiling, nuisance, and other forms of damage. The State of California has also adopted its own ambient air quality standards. Table 3.1 summarizes these National and California air quality standards.

Table 3.1

Ambient Air Quality Standards

			Concentrations	
	****		National	Standards ^a
Pollutant	Averaging Time	California Standards ^b	Primary ^C	Secondary ^d
Oxidant ^e	l hour	0.10 ppm (200 ug/m³)	_	
Ozone	l hour		0.12 ppm (235 ug/m³)	Same as primary standard
Carbon monoxide	8 hours	9 ppm	10 mg/m ³ (9 ppm)	Same as primary standards
	I hour	20 ppm	40 mg/m ³ (35 ppm)	
Nitrogen dioxide	Annual average		100 ug/m ³ (0.05 ppm)	Same as primary standard
	l hour	0.25 ppm (470 ug/m³)	_	
Sullur dioxide	Annual average	_	80 ug/m ³ (0.03 ppm)	_
	24 hours	0.05 ppm ^f (131 ug/m ³)	365 ug/m ³ (0.14 ppm)	
	3 hours			1,300 ug/m ³ (0.5 ppm)
,	l hour	0.50 ppm (1310 ug/m ³)	_	
Suspended particu- late matter	Annual geometric mean	g	75 ug/m ³	60 ug/m ³
	24 hours	-g	260 ug/m ³	150 ug/m ³

Source: California Air Resources Board.

- National standards, other than those based on annual averages or annual geometric means, are not to be exceeded more than once per year.
- b California standards are values that are not to be equaled or exceeded.
- National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- e Measured as ozone.
- At locations where the state standards for oxidant and/or suspended particulate matter are violated. National standards apply elsewhere.
- The California Air Resources Board has adopted an "inhalable" particulate standard for PM 10 of 50 ug/m³ 24-hour average and 30 ug/m³ annual geometric mean.

Note: ppm—parts per million by volume; ug/m³—micrograms per cubic meter; mg/m³—milligrams per cubic meter.

Concentrations are expressed first in units in which standards were promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25 degrees C and a reference pressure of 760 millimeters of mercury.

The San Joaquin County Planning Department prepared the County's first Air Quality Maintenance Plan in 1979. The plan was revised in 1982 for attaining national standards on ozone, carbon monoxide, and particulate concentrations, by 1987.

3.1.4.3 Ambient Air Quality

As discussed above, San Joaquin County is designated, by the U.S. Environmental Protection Agency, as a non-attainment area for ozone, carbon monoxide, and suspended particulates. Data for each of these factors is reviewed below. The only air monitoring station in San Joaquin County which has been operating consistently since 1977 is the Stockton/Hazelton Station. Several other stations have been operating periodically at various locations within the County. Therefore, to show air quality trends, only the data from the Stockton/Hazelton station are used throughout this section.

Ozone

Ozone is a regional pollutant which is not emitted directly to the atmosphere by any source, but is the result of a chemical reaction in the atmosphere in the presence of sunlight. The major pollutants involved in this reaction, known as ozone precursors, are reactive organic gases and oxides of nitrogen. The sources of these precursor pollutants are numerous and widespread and include vehicles, industrial processes, combustion, solvents, and paints.

Because of the time delay of several hours involved in the formation of ozone, ozone concentrations are much more uniform over an area, with the highest concentrations found downwind of an urban area. Ozone also can be transported long distances by wind, so that ozone created in one region may affect other regions.

Air quality in San Joaquin County shows that the National Ambient Air Quality Standards (NAAQS) have had periodic violations since 1979. As shown in Table 3.2, ozone levels have fluctuated since 1977. The number of violation days has, however, declined in recent years (Table 3.3). The County's "1983/1984 Preliminary Progress Report" notes that fluctuations in pollutant levels are being reestablished in a downward trend after a rise in levels during the three year period ending in 1983. The data is in three year periods to comply with EPA requirements for determining whether an area meets air pollution standards.

Table 3.2 May - October Data for Ozone

<u>Period</u>	Number of Days at 12 pphm ^a or <u>Greater</u>	Fourth Highest Hourly Concen. pphm	Mean Daily Max. Hourly Conc. pphm
1977, 78*, 79 1978*, 79, 80 1979, 80, 81 1980, 81, 82 1981, 82, 83 1982, 83, 84	7 7 11 9 12 9	13 12 14 13 13	6.3 6.6 6.4 6.2 6.1 5.7

Parts per hundred million No data available for 1978.

Source:

Preliminary Drast 1983/1984 Reasonable Further Progress Report of Air Quality, August 1985.

Table 3.3 Mean May-October Data for Ozone

Calendar Year	Mean Daily Max. Hourly <u>Conc., pphm</u> a	Max. Surface Temperature Fb	Morning Temp. at 5.000 Ft. ,F ^c
1977	5.8 .	82.7	60.5
1978	No Data	89.2	64.5
1979	6.7	90.2	62.7
1980	6.4	87.6	60.7
1981	6.2	90).3	64.2
1982	5.9	86.5	59.7**
1983	5.3	87.5	62.2**
1984	5.0	87.4	62.2**

- Parts per hundred million
- b Temperature at Stockton Metropolitan Airport
 c Temperature at Sacramento
 **Combined data from Sacramento and Davis

Source: Preliminary Draft 1983/1984

Reasonable Further Progress Report of Air Quality, August 1985.

Carbon Monoxide

Carbon monoxide (CO) is a local pollutant in that high concentrations are found only very near the source. The major source of carbon monoxide, a colorless, odorless, poisonous gas, is automobile exhaust. Elevated concentrations, therefore, usually are found near areas of high traffic volumes.

On a daily basis, CO levels usually track with increasing and decreasing traffic flows during shallow and persistent inversion periods. Typically, morning and early evening rush hour traffic levels correspond closely to elevation of CO levels. The morning CO peak usually dissipates as the inversion weakens and/or is broken by solar heating at the surface. The evening peak normally persists into the later evening and CO levels decline to pre-rush hour levels at approximately midnight.

Exceedances of CO usually occur during periods when shallow temperature inversions are strong. The Central Valley is notorious for strong temperature inversions during the fall and early winter, and all San Joaquin County CO violations have occurred during this period.

Federal standards for carbon monoxide are slightly higher than state standards. The federal NAAQS for CO is 9 ppm for an eight hour average or 35 ppm for one hour. The 9 ppm/8 hour average standard has been occasionally violated in San Joaquin County.

As shown on Tables 3.4 and 3.5, the number of days during which the NAAQS was reached or exceeded has dropped steadily since the three-year period ending with 1981. There were only three days in 1983 during which the NAAQS was reached or exceeded. During the reporting year 1984, there were no days during which the NAAQS was reached or exceeded.

Suspended Particulates

Until recently, ambient particulate levels were measured as total suspended particulates (TSP) and both the state and national ambient air quality standards were for TSP. However, the state has recently adopted a fine particulate standard, and EPA is in the process of developing a similar type of standard. The reason for the change in standards is that the fine particulates are inhalable and thus can be detrimental to human health.

Table 3.4 Jan, Feb, and Oct-Dec Data for CO

<u>Period</u>	Number of Days at 9 PPM ^a or <u>Greater</u>	Fourth Highest Hourly Concen. PPM	Mean Daily Max. Hourly Conc. PPM
1977, 78, 79	15	12.1	3.4
1978, 79, 80	18	12.1	3.5
1979, 80, 81	13	11.6	3.3
1980, 81, 82	8	8.9	3.1
1981, 82, 83	4	9.1	2.4
1982, 83, 84	4	9.1	2.3

Parts per million

Source:

Preliminary Draft 1983/1984 Reasonable Further Progress Report of Air Quality, August 1985.

Table 3.5 Mean Jan, Feb, and Oct-Dec Data for CO

Calendar <u>Year</u>	Mean Daily Max. 8-Hourly <u>Conc., PPM</u> a
1977	3.9
1978	2.9
1979	3.4
1980	4.1
1981	2.3
1982	2.8
1983	2.1
1984	2.0

Temperature at Stockton Metropolitan Airport

Parts per million

Source:

Preliminary Draft 1983/1984 Reasonable Further Progress Report of Air Quality, August 1985.

The national primary TSP standard is 75 micrograms per cubic meter. Recent data in San Joaquin County shows that this standard is being exceeded and is frequently violated (Table 3.6). The particulates were, in fact, a Central Valley-wide problem and violations of the standards are observed yearly at all locations in the San Joaquin Valley Air Basin.

Summary of Findings

Air quality for ozone and carbon monoxide has shown no deterioration since 1978. Ozone standards are still occasionally violated each ozone season (May through October). The County is very close to meeting the carbon monoxide standard and should be able to show attainment 1987. The federal ozone standard allows for no more than an average of one hour of exceedance of the 0.12 ppm concentration per year. Several federal carbon monoxide standards exist (for one hour and eight hour average concentrations), and San Joaquin County has occasionally violated the 8-hour standard (which requires that the 8-hour average not exceed 9.0 ppm carbon monoxide).

3.2 Biological Environment

3.2.1 Vegetation

There is little native vegetation in the Industrial Specific Plan areas. Most has been disturbed through continuous cultivation over many years. Active agricultural lands generally are planted in row crops and alfalfa. Isolated areas of ruderal or weedy vegetation are scattered throughout the proposed project site.

Caper fruited tropidocarpum (Tropidocarpum Capparideum) is a rare species identified by the California Natural Diversity Data Base (CNDDB) as potentially existing within the Industrial Specific Plan areas. The CNDDB priority of this plant is B1.2. This priority is ranked fifth among the CNDDB priorities, and compares with that assigned to a species considered rare and threatened or a rare and endangered subspecies. These priorities do not give any special legal status to this species. The plant is, however, a candidate for federal listing, Category 2, and will be given full protection by the federal government if located on-site (Bob Mapes, personal communication). The continuous cultivation of the land in the project area most likely indicates absence of this plant type.

Table 3.6

Total Suspended Particulate Data for San Joaquin County

1979-80, 1983-84 Stockton Station

	Number of Observations	<u>High</u>	Second <u>High</u>	Geometric <u>Mean</u>
1979	55	150	143	75.0
1980	53	298	236	84.6
1983	59	254	218	69.8
1983	58	186	181	81.9

Source: California Air Quality Data, 1979, 1980, 1983, 1984, Air Resources Board

322 Wildlife

Wildlife in the study area is primarily limited to small animals, such as rabbits, mice and game birds, typically found in cultivated lands and requiring habitat with little cover. Use of this habitat type is regularly disrupted by planting and harvesting, which limits nesting and burrowing opportunities for many species. Vegetation along fence lines, irrigation ditches, or unused land do provide appropriate habitat for these animals, but weed abatement programs often continually remove the vegetation.

The San Joaquin Kit Fox (Vulpes Macrotis Mutica), is known to exist in the foothills south of Tracy, and as a roaming animal, has no specific habitat boundary. While it is listed by the CNDDB as B2.1 priority, meaning an uncommon or threatened species, it is listed as a federal endangered species and a California threatened species. Recent sitings indicate the Kit Fox limits its habitat to the area between the foothills and the California Aqueduct. It most likely does not exist in the Industrial Specific Plan area because its habitat needs are not met by an increasingly urban environment (Bob Mapes, personal communication).

The Swainson's hawk (Buted Swainsoui) has been sited nesting at the intersection of Grant Line Road and Tracy Blvd. The Swainson's hawk is a CNDDB B1.2 priority (a rare and threatened species), a candidate for federal listing, Candidate 2, and a California threatened species. Swainson's hawks formerly nested over much of lowland California, except for the Mojave and Colorado Deserts. California breeding populations are only found now in portions of the Central Valley and Klamath Basin. Although scarce in California, they are the most common hawk of the Canadian prairie (LSA, 1986). The most recent siting of the hawk in Tracy was in 1981. No adults or nest were found in 1983. Since that time the land use at the intersection of Grant Line Road and Tracy Blvd. has changed from agricultural to commercial uses. This transition has probably displaced the hawk.

3.3 Sociocultural Environment

3.3.1 Cultural Characteristics

The City of Tracy and San Joaquin County as a whole have grown steadily since 1960, experiencing a surge of growth as the country pulled out of its economic recession in the mid-1980's. In June 1987, the City adopted the Residential Areas Specific Plan which, over the next 8 to 10 years, will add approximately 7,540 new households to the community. Additionally, the proposed Industrial Areas Specific Plan is expected to ultimately increase the City's employment base by over 18,000 jobs. An overview of aspects describing existing conditions in Tracy before this increase in its growth rate and employment base is important to understanding the impact of residential developments on its future. The statistics in Table 3.7 present a general portrait of the community.

Historic Population Trends

Statistics on historic population growth for San Joaquin County and Tracy are shown in Table 3.7. Tracy has grown more quickly than has the county as a whole for the twenty-five year period from 1960 to 1985. The population increased by 26.9 percent in the 1960's and 22.7 percent in the 1970's. The county experienced an increases of only 15.3 percent and 17.8 percent for the same periods. During the five-year period of 1980-1985, both the city and county populations jumped dramatically: from 18,428 to 23,400 in Tracy (48.9 percent), and from 347,342 to 407,500 (32.5 percent) in San Joaquin County.

Employment

Table 3.8 summarizes pertinent employment characteristics for the City of Tracy in 1980. Technical, sales and support work made up the largest occupational group of employed persons, with operators, fabricators and laborers as a group accounting for only a few hundred less jobs. Similarly, by industry, the largest sectors were services (26.8 percent of the employed work force); and manufacturing (20.3 percent).

Table 3.7

Historic Population Growth

					Percer	itage Cha	angc**
	1960	<u>1970</u>	<u>1980</u>	<u>1985</u>	60-70	<u>70-80</u>	80-85
Tracy	11,289	14,724	18,428	23,400*	26.9	22.7	48.9
San Joaquin County	249,989	291,073	347,342	407,500*	15.3	17.8	32.5

^{*}Department of Finance estimates

Source: U.S. Census of Population, California Department of Finance, EDAW

^{**}EDAW estimates

Table 3.8

Employment: 1980

Population	18,428
Persons 16 and Over	13,344
Labor Force Civilian Labor Force Employed Unemployed	8,293 8,269 7,385 884
Occupations of Employed Persons Managerial, Professional Technical, Sales and Support Services Farming, Forestry and Fishing Precision Production, Crafts, Repair Operators, Fabricators, Laborers	1,085 21,164 971 293 996 1,876
Employment by Sclected Industries Mining Construction Manufacturing Transportation, Communication, Utilities Wholesale Trade Retail Trade Retail Trade Finance, Insurance, Real Estate Banking and Credit Agencies Services Public Administration Agriculture	4 307 1,499 788 277 1,107 106 127 1,980 891 299
Class of Worker Private Wage and Salary Government: State and Federal Government: Local Self-Employed	4,888 1,214 776 480

Source: U.S. Census, 1980

Census figures show that, in 1980, San Joaquin County had a larger number of people employed within its area than it had residing there implying an in-commute of workers. Only 7.1 percent of county residents travelled to jobs outside of the county.

Income

In 1979, the median yearly household income in Tracy was \$16,630, a figure \$1,613 below the state median (Table 3.9). Median family income stood at \$19,358 for Tracy in 1979 which, along with median household income, was higher than corresponding figures for San Joaquin county as a whole. The lower per capita income in Tracy indicates that the higher relative medians for families and households may be attributed to larger average family sizes in Tracy than in the county.

3.3.2 Historic Resources

According to the files of the Central California Information Center, which catalogues data on cultural resources in the San Joaquin Valley, no historic sites have been located within the Industrial Specific Plan areas and no cultural resource surveys have been conducted.

Because virtually all acreage within the study area is disturbed agricultural land, it is unlikely that there are any historic sites remaining.

3.3.3 Land Use and Land Use Planning

3.3.3.1 <u>Land Use</u>

The Industrial Specific Plan areas abut existing urban development along the west and south edges of the City of Tracy. Presently, the entire 675 acres scheduled for development are either active or dormant agricultural land and are accessible by local-serving rural roads.

Soil surveys listed in the 1982 Tracy General Plan, indicate that the land within the Industrial Specific Plan is not the most fertile in the area. The objective of that plan was to target the industrial growth to areas adjacent to existing development and away from prime soils.

Table 3.9
Income: 1980

	City of <u>Tracy</u>	San Joaquin <u>County</u>	State of California
Total Households	6,625	125,039	8,644,633
Household Income Less than \$10,000 \$10,000 to \$19,999 \$20,000 to \$24,999 \$25,000 to \$34,999 \$35,000 to \$49,999 Over \$50,000	1,907 2,023 973 1,177 391 154	39,538 36,361 15,244 19,393 9,779 4,724	2,270,644 2,425,961 1,045,319 1,429,229 923,669 549,811
Median Household Income	\$16,630	\$16,071	\$18,23
Median Family Income	\$19,358	\$19,116	\$21,537
Per Capital Income	\$6,719	\$7,016	\$8,295

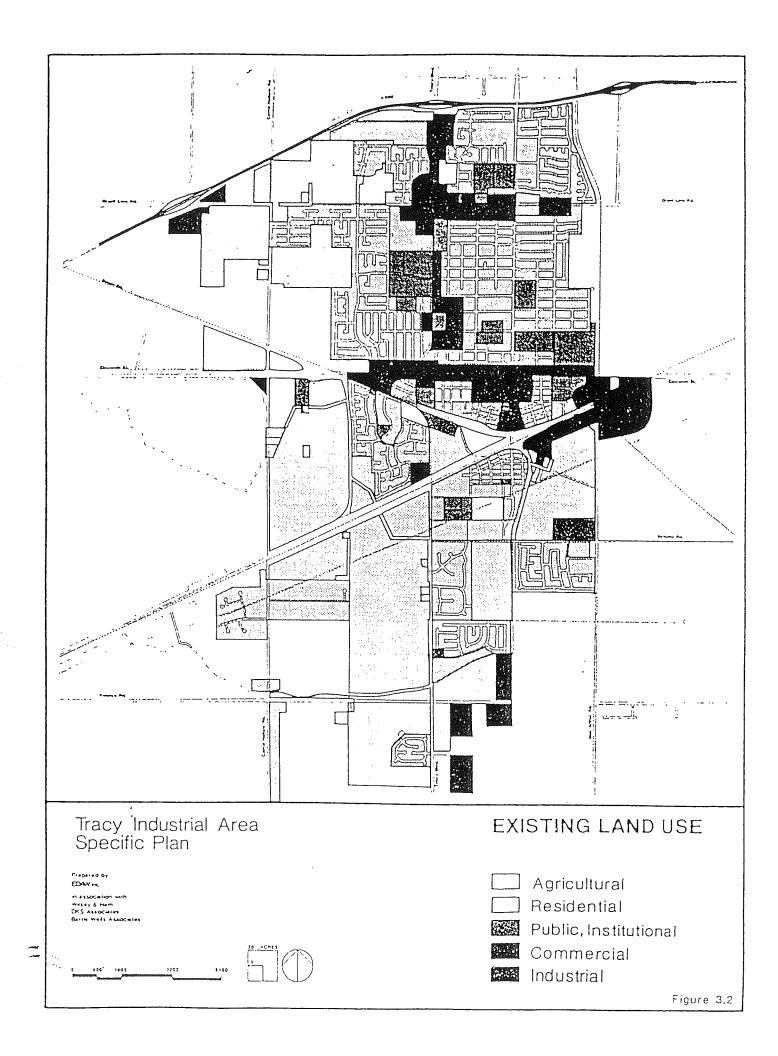
Railroad lines criss-cross the city and the Specific Plan areas, forming divisions of the land but, they are also sources of noise, and have created pockets of underutilized land.

The City itself is mainly characterized by established single-family neighborhoods crossed by tree lined streets. While some of the recent subdivisions do not have the extensive landscaping which makes the older neighborhoods so attractive, the City has reinforced its policies and currently requires street trees in new subdivisions. Several of the newest areas are lined with concrete walls which form barriers to the adjacent community. The central downtown district is composed of one- and two-story buildings which contain local-serving retail businesses. Eleventh Street is also a growing highway-serving commercial strip hosting a number of new shopping centers and fast-food restaurants. At the intersection of Tracy Blvd. and Grant Line Road, a complex of highway-serving restaurants and community oriented retail stores, including a K-Mart, forms another community focal point (Figure 3.2).

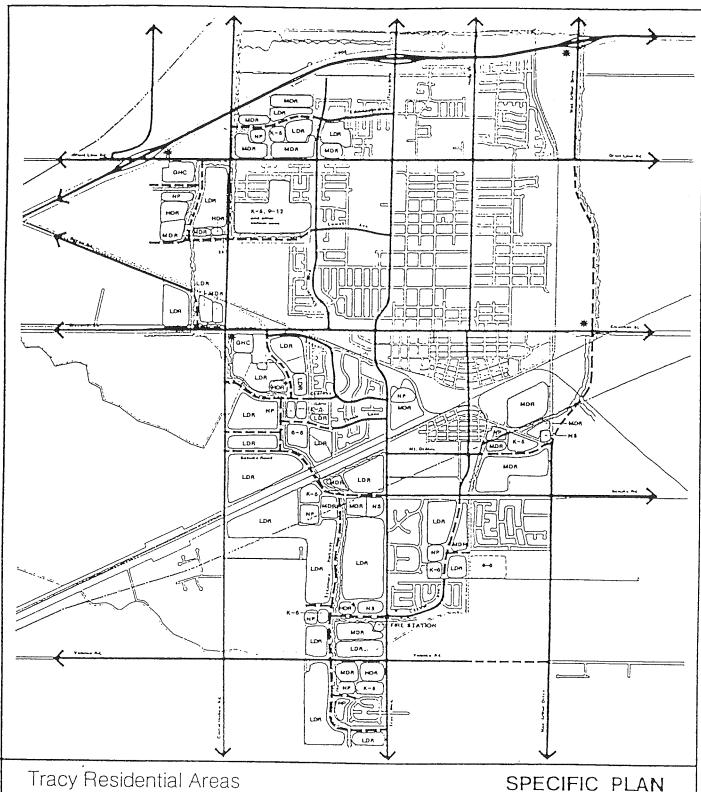
In addition to the land currently being considered for industrial development, a significant portion of the City's land was recently allocated to the residential sector. In 1982, during the process of updating the General Plan, the City of Tracy identified land within the recently adopted Residential Areas Specific Plan as areas to be targeted for future urban expansion. This plan is intended to provide a planned community that expands and enhances the amenities of the city. In order to accomplish this, the plan allows a variety of residential product types, commercial complexes, school facilities, parks, recreation and open space amenities and an improved circulation system. This plan promises to figure prominently in future land use decisions, and so the effects of its implementation have been included in the current document. Figure 3.3 illustrates the land use designations of the parcels included in the Residential Areas Specific Plan.

3.3.3.2 Land Ownership

The approximately 643 acres within the proposed Specific Plan are owned by eight separate parties. Table 3.10 and Figure 3.4 list these property owners and the location of their parcels.



: .*



Specific Plan

Procesed by EDAVIN

en association with Wissey & Ham CKS Association Barber-Wells Association



Retention Basin

Existing Arterials and Collectors

LDR Low Density Residential MOR Residential

HOR High Density

9-12 High School

6-8 Middle School

K-5 Elementary School

Storm Drain/Open Space Corridor Proposed Arterials and Collectors NP Nelghborhood Park

GHC General Highway Commercial Neighborhood Shopping Center

Gateway Treatment

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Table 3.10
Tracy Industrial Areas Specific Plan
Existing Land Use Data

Development Parcel	Property Owner	Total Acres	General Plan Designation
I-1	Interland	76.42	LI
I-2	Santà Fe Pacific	142.13	GI
I-3	Pombo	74.29	LI
I-4	Murphy	10.00	LI
I-5	Murphy	10.00	LI
I-6	Cosc	34.09	GI
I-7	Union Pacific	221.58	GI
I-8	Teichert	74.95	GI
TOTALS		643.46	

The second secon

-



Tracy Industrial Area Specific Plan

LAND OWNERSHIP

Fragment by
E.D.A.W
In executation with
Admitted Market , O.K.E. + Warrey & Ham

[NAM & American | 1995 | July 24, 1887

Percele Included

[1-1] Reference Number

Figure 3.4

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3.3.3.3 Land Use Planning

All of the land within the proposed Industrial Specific Plan area is designated by the General Plan as either Limited Industrial (LI) or General Industrial (GI). With the exception of parcel seven, all parcels are zoned as Light Industrial (M-1) (Figure 2.3). Parcel nine additionally falls within the Tracy Municipal Airport overlay zone.

Permitted uses under such zoning include, but are not limited to, commercial amusement and entertainment establishments, contract construction, warehousing and storage, and light industrial uses. Conditionally permitted uses include but are not limited to mining and quarrying, general consumer and business services, wholesale, trade establishments and intermediate and heavy manufacturing uses.

3.3.4 Transportation

3.3.4.1 Highway Access to Tracy

The City of Tracy is well served by intercity freeways. Interstate 5 (I-5), California's primary north-south freeway, passes within five miles of Tracy to the east. I-205, an east-west freeway link connecting I-5 to I-580, passes through northern Tracy. I-580, which extends from I-5 to the San Francisco-Oakland Bay Bridge, passes within five miles of Tracy to the southwest. I-205 and I-580 together constitute the main accessway between Tracy and the San Francisco Bay Area. I-205 is a four-lane facility. I-580 is also four lanes until it is joined by I-205 near the Altamont Pass; west of this point, I-580 has eight lanes.

Two non-freeway roads which provide access to Tracy are San Joaquin County Routes J2 and J4. Route J2 (which becomes Corral Hollow Road within the City of Tracy) is a two-lane facility connecting Tracy to State Route 4 (S. R. 4) ten miles to the north. Route J4, also known as Byron Road, is a two-lane facility connecting Tracy and the community of Byron and other communities in eastern Contra Costa County.

3.3.4.2 Key Roadways Within Tracy

The Tracy street system is essentially a grid system with arterials (major traffic streets) spaced at intervals of approximately one mile. Key existing and planned arterials and average daily traffic volumes are shown on Figure 3.5 and include:

Central Avenue

Central Avenue is a north-south roadway in central Tracy extending approximately one mile south from Eleventh Street through Tracy's Central Business District (CBD) to Schulte Road. After a discontinuity of approximately three-quarters of a mile south of Schulte Road, Central Avenue resumes, turning west to a terminus at Tracy Boulevard.

Central Avenue currently has two travel lanes plus parking between Eleventh and First Streets, and for an 800-foot segment between Mt. Oso Avenue and Schulte Road. Elsewhere, Central Avenue is a four-lane arterial. Ultimately, Central Avenue is planned for four travel lanes for its entire length south of First Street.

The alignment of Central Avenue is straight. There is a traffic signal at the Central-Holly/Eleventh Street intersection and stop signs on Central Avenue at Schulte Road and at Tracy Boulevard. Other side streets are stop sign controlled.

Corral Hollow Road

Corral Hollow Road is currently a two-lane north-south roadway at the western edge of Tracy. It is planned to become a major four-lane arterial serving future development in west Tracy. The alignment of Corral Hollow is straight as it passes through the planned development area.

East Street

East Street is a north-south roadway serving Tracy's east side. It extends approximately 1.3 miles from Sixth Street to Grant Line Road. It serves two lanes of moving traffic. North of Eleventh Street, East Street carries about 6,300 vehicles daily.

Eleventh Street

Eleventh Street is the major east-west arterial roadway serving central Tracy. To the west, Eleventh Street has an interchange connection to I-205. Some 2.3 miles are within the City limit. Eleventh Street serves four lanes of traffic.

The alignment of Eleventh Street is straight. Traffic control includes traffic signals at Tracy Boulevard, at Lincoln Boulevard, at Parker Avenue, at Holly Drive, and at East Street. All other side streets are stop sign controlled. Speed limit signs are used to indicate the speed limits varying between 30 MPH and 50 MPH. The highest traffic volumes along Eleventh Street occur between Central Avenue and Parker Avenue where daily volumes exceed 15,000. West of Lincoln Boulevard, the average daily traffic (ADT)¹ is about 9,200 and to the east of MacArthur Drive it reaches 12,100 vehicles per day. Eleventh Street is a designated truck route.

Grant Line Road

Grant Line Road is an east-west arterial roadway in the northern part of Tracy. To the west, Grant Line Road has an interchange connection to I-205. Some 3.4 miles of Grant Line Road is within the City limit. Grant Line Road serves two lanes of traffic with a central two-way left-turn lane between Tracy Boulevard and East Street. Between Holly Drive and East Street, a second eastbound lane is present. Ultimately, Grant Line Road will be widened to serve four lanes of through traffic.

The alignment of Grant Line Road is straight. Traffic control includes traffic signals at Tracy Boulevard, at Holly Drive at East Street, and at Lincoln Boulevard. All other side streets are stop sign controlled. Speed limit signs are used to indicate the 35 MPH speed limit between Tracy Boulevard and MacArthur Drive and 45 MPH to the west of the 35 MPH speed limit. Daily traffic volume along Grant Line Road west of Corral Hollow Road is about 4,400 and about 3,600 east of MacArthur Drive. The highest volumes along Grant Line Road occur between Tracy Boulevard and MacArthur Drive. Grant Line Road is a designated truck route.

^{1/} All ADT figures are from 1983.

Holly Drive

Holly Drive is a north-south roadway in the central part of Tracy extending some 2.1 miles between Eleventh Street and the northerly City limits. Holly Drive serves two lanes for its entire length. Between Eleventh Street and Clover Road, Holly Drive is 40 to 48 feet wide. North of Clover Road, the pavement width narrows to 24 to 30 feet.

The alignment of Holly Drive is straight. Traffic control includes traffic signals at Grant Line Road and at Eleventh Street. Other side streets are stop sign controlled. Speed limit signs are used to indicate the 25 MPH speed limit between Eleventh Street and I-205. Daily traffic volume along Holly Drive south of Beverly Place is about 6,200 and about 5,600 north of Grant Line Road. Daily volume north of Clover Road is about 1,300 and this drops to about 950 per day near Arbor Avenue.

Linne Road

Linne Road is a two-lane, east-west roadway at the southern edge of Tracy and passes just north of the Tracy Municipal Airport. It extends from Corral Hollow Road (County Road J2) to County Road J4.

MacArthur Drive

MacArthur Drive is a 2.4-mile-long north-south roadway in the eastern part of Tracy providing two lanes of traffic between the southerly City limits and Eleventh Street and between Grant Line Road and the northerly City limits. The width of MacArthur Drive typically varies between 25 and 35 feet with most of its length yet to be fully improved.

The alignment of MacArthur Drive is straight. Traffic control includes stop signs at Grant Line Road and at Eleventh Street. Side streets are stop sign controlled. Speed limit signs are used to indicate the speed limit. Daily traffic volume along MacArthur Drive is about 4,100 north of Grant Line Road and 900 immediately to the south of Arbor Avenue. The daily volume north of Schulte Road is about 2,700 and about 2,400 south of Schulte Road. MacArthur Drive is a designated truck route.

Tracy Boulevard

Tracy Boulevard is the major north-south arterial providing a continuous route between the northerly and southerly City limits. Tracy Boulevard serves as a two-lane street north of I-205 and to the south of Tennis Lane. Tracy Boulevard has four traffic lanes between Grant Line Road and Tennis Lane. Localized widening also occurs at Kavanaugh Avenue and at Grant Line Road.

The alignment of Tracy Boulevard is basically straight with curves in the vicinity of Twelfth Street and south of the railroad crossing of the Southern Pacific tracks. Traffic control include traffic signals at Eleventh Street, Lowell Avenue, Grant Line Road, Kavanaugh Avenue and Clover Road. A traffic signal is currently under construction at West Central Avenue, Tracy Boulevard is stop sign controlled at Linne Road. All other intersecting side streets are stop sign controlled. Daily traffic volume along Tracy Boulevard exceeds 11,600 per day immediately south of Grant Line Road and has been measured as high as 13,800 near Eaton Street. Daily traffic volumes decrease to about 1,100 at Linne Road and to about 1,400 north of Larch Road. Tracy Boulevard is a designated truck route.

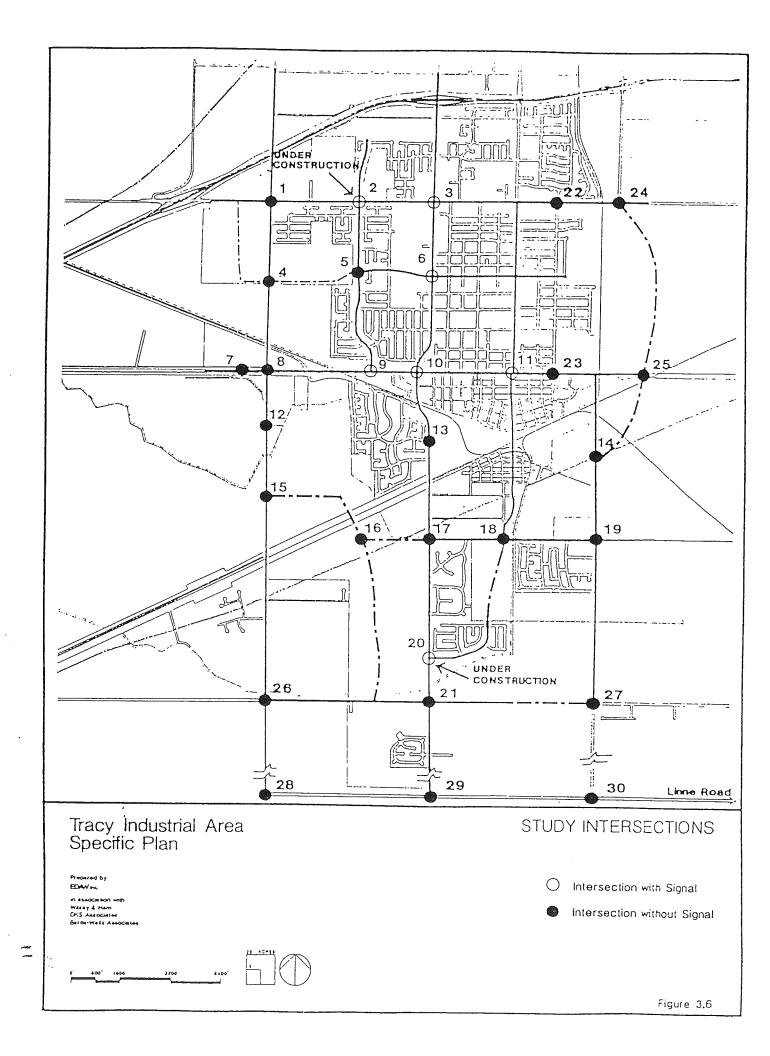
Valpico Road

Valpico Road is currently a two-lane roadway which passes through southern Tracy. It extends 4.3 miles from Chrisman Road to Lammers Road except for a missing one-half-mile segment immediately west of MacArthur Drive. The City of Tracy plans to develop Valpico as a four-lane arterial.

3.3.4.3 Existing Traffic Volumes

For purposes of analyzing intersection design and performance, peak-hour turning volumes are much more useful than Average Daily Traffic (ADT) volumes (Figure 3.5)(Table 3.11). DKS Associates collected afternoon peak-hour turning volumes for 18 key intersections in January and March, 1986 (Figure 3.6). For 7 other intersections, 1984 afternoon peak-hour counts were extrapolated to 1986 levels by assuming four percent growth in the intervening two years. These existing afternoon peak-hour volumes together with information on existing intersection

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Parameter Section (1994) Section (1994)

Table 3.11

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Table Industrial Specific Plans

Existing Conditions--1986

Report of Total Volumes by Turning Movement, Volume/Capacity Ratios and Level of Service

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	Intersection	Corral Hollow & Grant Line Rd.	Lincoln Blvd. & Grant Line	Tracy Blvd. & Grant Line	Corral Hollow & Lowell Ave.	Lincoln Blvd. & Lowell Ave.	Tracy Blvd. & Lowell Ave.	Byron Rd. & Eleventh St.	Corral Hollow & Eleventh St.	Lincoln Blvd, & Eleventh St.	Tracy Blvd. & Eleventh St.	Holly-Central & Eleventh St.	Corral Hollow & Cypress Drive	Tracy Blvd. & Centre Court	MacArthur Dr. & Third St.	Corral Hollow & Schulte Rd.	Sycamore & Schulte	Tracy Blvd. & Schulte	Central Ave. & Schulle	MacArthur & Schulle	Tracy Blvd. & Central	Tracy Blvd. & Valpico Rd.	East St. & Grant Line Rd.	Fast St. & Eleventh St.	MacArthur Dr. & Grant Line Rd.	MacAnhur Dr. & Eleventh St.	Corral Hollow & Valpico Idd.	MacArthur Dr. & Valpico Rd.	Corral Hollow & Linne Rd.	Tracy Blvd. & Linne Rd.	MacArthur Dr. & Linne Rd.
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- Not Applicable

geometrics (lane stripings) were used to calculate the existing traffic volume-to-capacity (V/C) ratios and associated level of service (LOS) grades for the 25 key existing intersections. Capacity utilization was calculated using the planning method of the Transportation Research Board's Circular 212 update of the 1965 Highway Capacity Manual. Existing V/C ratios and LOS grades are shown in Table 3.11. Table 3.12 characterizes different intersection levels of service.

Existing Transit Service

Tracy Transit, a dial-a-ride para-transit service, currently serves all parts of the City including the Specific Plan areas. The operation consists of five vans, four of which are in service during hours of operation (7 a.m. to 7 p.m.). The service is available to all Tracy residents. Fares are 75 cents per ride (50 cents for senior citizens and handicapped persons). Annual ridership was approximately 47,000 in 1985.

3.3.5 Noise

Noise levels within the City of Tracy, on the major street network, were measured in 1981 and reported in the General Plan. The data showed that on residential streets, the noise levels were between 60 and 65 LDN within 50 feet of the roadway, making the noise levels conditionally acceptable for residential use. Noise levels along commercial streets were higher, but generally acceptable.

The 1981 data gave information for several streets within the Specific Plan areas. Findings were consistent with those for the city as a whole, however, several streets within the planning areas were not measured.

Trains are also noise producers within Tracy. The two Southern Pacific Railroad lines which cross the City, together average 11 trains per day (Tracy General Plan). The rail spur which extends to the Owens-Corning plant southwest of the City is used infrequently. A Western Pacific Railroad line runs southeast of Tracy. Noise from this line does not affect the Specific Plan areas.

Table 3.12

LEYEL OF SERVICE INTERPRETATION - SIGNALIZED INTERSECTIONS

Level of Service	<u>Description</u>	Average Vehicle Delay (Seconds)	Volume to Capacity Ratio
А	Free Flow. No approach phase is fully utilized by traffic and no vehicle waits longer than one red indication. Insignificant delays.	0-5	0.0-0.59
В	Stable Operation. An occasional approach phase is fully utilized. Many drivers begin to feel somewhat restricted within platoons of vehicles. Minimal delays.	5-15	0.60-0.69
С	Stable Operation. Major approach phase may become fully utilized. Most drivers feel somewhat restricted. Acceptable delays.	15-25	0.70-0.79
D	Approaching Unstable. Drivers may have to wait through more than one red signal indication. Queues may develop but dissipate rapidly, without excessive delays.	25-40	0.80-0.89
E	Unstable Operation. Volumes at or near capacity. Vehicles may wait through several signal cycles. Long queues form upstream from intersection. Significant delays.	40-60	0.90-0.93
F	Forced Flow. Represents jammed conditions. Intersection operates below capacity with low volumes. Queues may block upstream intersections.	60 or greater	n/a

Source: "Highway Capacity Manual," Highway Research Board, Special Report No. 87, Washington D.C., 1965.

DKS Associates.

[&]quot;Interim Materials on Highway Capacity," Transportation Research Board, Circular No. 212, Washington, D.C., January 1980.

3.4 Public Facility Considerations

3.41 Utilities

3.4.1.1 Municipal Water Systems

The City of Tracy has as its primary source of water, the Delta-Mendota Canal, running south and west of the City. Tracy's present entitlement will provide for 10,000 acre-fect of water, equivalent to an annual consumption rate of 8.9 mgd. However, its present water treatment plant can only provide up to 7,000 acre-fect annually of treated water. Additional elements of the water treatment plant, originally deferred, are planned to permit the City to take its maximum entitlement from the canal.

In order to provide for a secondary water source, in the event of an emergency, the City must continue to maintain its system of wells and pumping facilities, and/or look to the California Aqueduct for alternate supplies. Of the City's eight wells, two have been recently abandoned due to deterioration of casings and other operational problems leaving six actively operable. The California Aqueduct is located 3,800 feet southwest of the City's present turn-out from the Delta-Mendota Canal, which is located south of the Tracy Municipal Airport, and just west of Tracy Boulevard.

Present surface water supplied as of good to acceptable quality and can be adequately treated by the water treatment plant which is located east of Tracy Boulevard just south of the Tracy Municipal Airport. The present treatment plant capacity is 7.0 MGD with a peak 10 hour capacity of 10.0 MGD.

The water supply network consists of a looped system of mains that adequately serve the existing areas of the City. Service is divided into three pressure areas as indicated in Figure 4.3.

The City of Tracy currently maintains a Class 3 fire rating and has four of its existing well pumps powered by diesel engines that can adequately provide for fire protection and domestic needs on a limited basis. Fire hydrants are located at appropriate spacing throughout the City.

The City has two existing elevated water towers or reservoirs in its public water system. Both tanks are vintage steel tanks with cage-steel legs. One is located on the south side of Tenth Street, across the street from City Hall and the second is located in the City utility yard property, east of Tracy Boulevard and south of the railroad tracks. Both of these tanks are unused except for brief periods of time when the Delta-Mendota Canal is shut down for cleaning and/or repair. The balance of the time, the City uses the clear-well at the water treatment plant for developing head and as a reservoir.

There is a water pressure booster station located at the corner of Valpico Road and Tracy Boulevard. This includes a fire booster pump on the southeast corner and a domestic booster pump on the southwest corner. There are also pumps located at each City well site from which water is pumped directly into the water mains.

The West Side Irrigation District provides irrigation water to the agricultural areas west of town. The Banta-Carbona Irrigation District provides irrigation water to the area from Valpico road southerly and from Banta Road easterly. Numerous irrigation ditches exist around the agricultural perimeters of the developed areas. These channels will either generally be phased out as the areas develop, or they will be converted into drainage ditches.

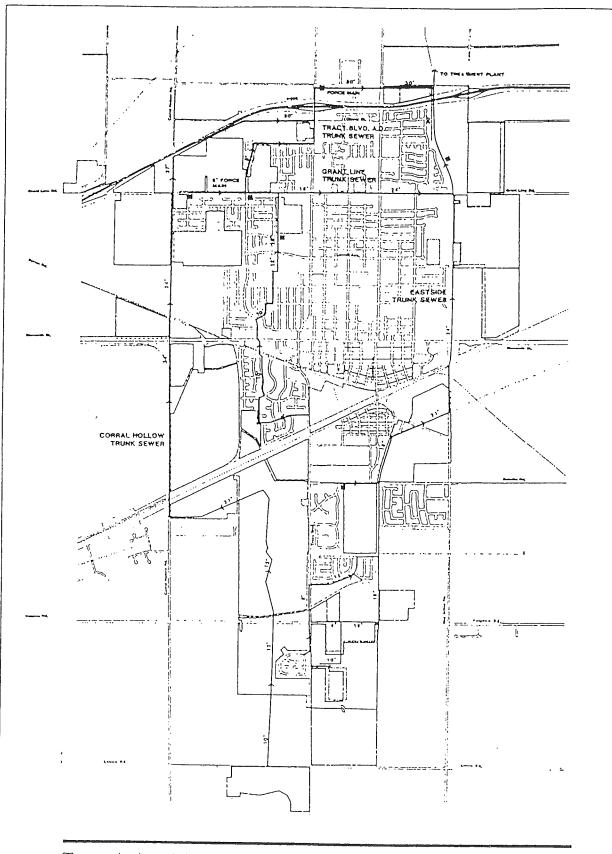
3.4.1.2 Municipal Wastewater

The existing wastewater collection system consists of both a gravity flow system and a pumped flow system. The sewer plant is located in the northeast quadrant of Tracy, fronting Holly Drive and Arbor Avenue (Figure 3.7). Existing capacity of the plant is 6.0 million gallons per day (m.g.d.)

A treatment plant and collection system expansion is currently under construction and is funded, as explained earlier, by Assessment District 84-1. These improvements will be completed prior to residential and industrial development. For the purpose of this report, these new improvements are considered part of the existing system.

Under the current phase of treatment plant construction, the project will provide for an increased average domestic plant flow of 3.5 m.g.d. The major items include: a primary effluent

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Tracy Industrial Area Specific Plan

Promoted by EDAW in detectable with Sautherward - OKE + Wavey & Ham May 22, 1987

EXISTING WASTEWATER SYSTEM

- Existing Truck Lines
- # Existing Lift Stations
- --- Assessment District 84-1 Boundary

Figure 3.7

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المحتجد محتجد المحتجد مراجع المحتجد pipeline, a secondary clarifier over sizing, anaerobic digester oversizing, domestic primary clarifiers, effluent pump modifications, and a chlorine contact basin. This phase of construction was approximately 50 percent complete as of March 1986. A capacity of 0.15 m.g.d. has been slated for urban infill, therefore, the net available capacity for continued residential, commercial and industrial growth is 3.35 m.g.d.

Currently there are four main trunk lines serving the City. They are:

- 1. Tracy Boulevard Assessment District (TBAD) Trunk Sewer
- 2. Grant Line Trunk Sewer
- 3. Eastside Trunk Sewer
- 4. Corral Hollow Trunk Sewer

The TBAD Trunk Sewer serves the areas north of Grant Line Road. The maximum pipe capacity at the downstream end is 3.8 m.g.d.

The Grant Line Trunk Sewer primarily services the inner-city. This area includes lands bounded by Grant Line Road on the north, the railroad on the south, MacArthur Drive on the east, and Lincoln Boulevard on the west. The maximum pipe capacity at the downstream end is 4.4 m.g.d.

The Eastside Trunk sewer serves, for the most part, the industries on the east side of MacArthur Drive, north of the railroad. The trunk sewer also serves most of the lands south of the railroad, north of Linne Road, west of MacArthur Drive, and east of Tracy Boulevard. The maximum pipe capacity on the downstream end is 5.1 m.g.d.

The Corral Hollow Trunk Sewer serves most of the lands between Grant Line Road to the north, Southern Pacific Railroad to the south, Chester Drive to the east, and Lincoln Boulevard to the west. In addition, it serves a portion of the lands between the railroads to the north and south, and Hickory Avenue and Tracy Boulevard to the east and west. The maximum pipe capacity at the downstream end is 2.3 m.g.d.

There are a total of six existing lift stations in the wastewater collection system located as indicated on Figure 3.7.

3.4.1.3 Solid Waste

Solid waste collection within the City of Tracy is presently handled by the Tracy-Delta Disposal Service of Tracy. Their operation is comprised of 6 trucks and 18 staff in the field plus a small office staff with billing and payment collections handled by the City of Tracy.

The City has 6,927 billing entities for collection. They contribute approximately 30,000 cubic yards of solid waste monthly to a 20-acre joint city/county solid waste disposal site located at the southeasterly corner of Corral Hollow Road and I-580. This is a landfill operation operated by the City Department of Public Works.

3.4.1.4 Electric Power

Pacific Gas and Electric presently serves the entire City of Tracy including both Specific Plan areas. There is a set of electric transmission towers owned by PGandE, which runs across the City, parallel to the railroad in a southwesterly to northeasterly direction. Their substation is located on their transmission tower line in the vicinity of Chrisman Road and West Eleventh Street.

3.4.1.5 Natural Gas

Gas is presently served to the densely developed portions of the City by Pacific Gas and Electric. Extension of gas service is readily available and will be provided under the normal State Public Utilities Commission regulations.

3.4.1.6 Telephone/Cable Television

Telephone service to the entire area is provided by Pacific Bell, headquartered in Stockton.

3.4.2 Public Services

3.4.2.1 Police Service

Facilities and Staffing

The City of Tracy Police Facility was occupied in 1979, and is located within the City Hall complex at 400 East Tenth Street. Originally built to provide space for 39 employees, the current full-time staff of 45 and reserve and volunteer staff of 35 has filled the facility to capacity. The building includes a jail which sleeps six prisoners and it was built to federal correctional facility standards.

The Police Department has a total of 45 full-time employees (33 sworn officers and 12 civilian) in the following positions:

25 patrol officers (including two beginning January 1, 1986 and 6 investigators)

5 scrgeants

9 communications personnel

1 records supervisor

1 secretary

12 aides

3 administrative personnel (2 lieutenants, 1 chief)

Additionally, the Department has ten adult crossing guards, 13 volunteer Reserve Officers, and 12 volunteer Cadets.

While new staff hiring is presently evaluated by the workloads of existing officers, the ratio of the community population to officers is essentially 1 officer/1000 population.

Organizationally, the Department is divided into two major divisions: the Operations Division and the Investigations Division. Each is headed by a Lieutenant under the direction of the Chief of Police.

Police service is carried out with the use of 7 marked patrol vehicles, 5 unmarked vehicles, 1 van, 1 parking enforcement 3-wheel Cushman, and 2 Honda 125 motorcycles.

Tracy was among the first cities in California to implement a 911 Emergency System. The present police facility features a modern two station communications console allowing two operators to simultaneously receive incoming calls and dispatch emergency units. The dispatch center is equipped with a dictaphone dual 24-hour taping of all incoming and outgoing calls through the center. It allows the operator to visually monitor the booking area of the jail, as well as the inside corridor. The dispatch operator is also able to perform audio monitoring of all cells within the jail, and has electronic control of all jail doors, as well as the primary entrance doors to the facility.

The City of Tracy is patrolled using a beat system. The City is divided into four beat areas with one officer assigned to each beat.

In 1985, the department responded to 17,054 calls and made 2,951 arrests. The number of calls increased approximately 12 percent over 1984 (15,194). Response time to emergency calls is still between two to three minutes, however, non-emergency calls, at times, have to be prioritized, and frequently responses cannot be made for 30 to 45 minutes.

3.4.2.2 Fire Protection

Facilities and Staffing

The Tracy Fire Department currently conducts operations out of three fire stations: Station No. One is located at Ninth Street and Central Avenue; Station No. Two is located at Parker Avenue and Grant Line Road (at the entrance to El Pescadero Park); and Station No. Three is located at Tracy Boulevard and West Central Avenue. The latter is an interim facility, to be in use until a permanent facility is built in this area.

The Fire Department operation consists of three twenty-four hour shifts. The Tracy Fire Department is service oriented and responds to all fire, first aid, and rescue incidents, as well as citizen service calls.

Currently the Standard Fire Insurance Rating for the department is a three, (using a scale of 1 to 10, one being the highest). The department was reevaluated in April 1986 resulting in a promotion from Class 4 to Class 3.

The Fire Department has a mutual aid agreement with all Fire Departments in San Joaquin County, along with Livermore Radiation Lab, in which fire or rescue equipment and personnel are available in case of a major emergency. The Department also has an agreement with the State of California in which it will assist in an emergency anywhere in the State in exchange for the use of a fire pumper as a reserve apparatus for City use.

The Tracy Fire Department is headed by the Fire Chief and has 18 firefighters, six shift officers, two 40-hour administrators and one secretary. The firefighter staffing for each station is as follows:

Main Station (9th and Central)

Maximum: 4 firefighters plus two administrators

Minimum: 3 firefighters

North Station (Grant Line Road and Parker Avenue)

Two firefighters on duty at all times

Temporary South Station (Tracy Blvd. and West Central)

Two firefighters on duty at all times.

90 percent of the fire force are trained as Emergency Medical Technicians.

Fire service is carried out with the following equipment:

Station #1	1977 1968 1972 1975 1985 1980 (Emerg	1500 gpm pumper 1500 gpm snorkel (elevated platform) 1250 gpm Reserve pumper Rescue Squad Utility truck Dodge pickup gency Communications Trailer)
Station #2	1982 1968	1500 gpm pumper 1000 gpm reserve pumper - State rig (OES)
Station #3	1985	1500 gpm pumper
Chiess Car	1983	Dodge

The hospital dispatches all ambulance calls. Ambulance service is provided by "Mobile Life Support," a private firm.

Fire Programs

Tracy Fire Department programs consist of fire prevention inspections of commercial, industrial and residential properties, weed abatement and auto abatement programs, a smoke detector program for senior, C.P.R. instruction, school fire prevention programs and public education.

3.4.2.3 Department of Public Works

Responsibilities of the Department

The Department of Public Works is responsible for providing a variety of physical facilities and public services needed to support urban development, including those items more recently referred to as infrastructure: such as streets and highways, public buildings, water supply, wastewater treatment, street lighting and traffic control, transportation, parks and open space, storm drainage, airports and equipment services.

Engineering Services

The services of this division include the design, inspection and consultant coordination for all capital improvement and private development projects.

Public Works Administration

This division provides support services to manage and coordinate all public maintenance and engineering activities.

Street Maintenance

This division is responsible for patching, paving and repairing the City's streets and for the replacement of curbs and sidewalks damaged by street trees. Other responsibilities include maintenance of all traffic control devices, (including signs, pavement markings, traffic signals and street lighting), and street sweeping services for all city streets.

Storm Drainage System Maintenance

The primary responsibility of this division is to maintain the ability of the City's storm drainage system to effectively drain the City's streets.

Water Distribution System

This division maintains the City's water distribution system to ensure the provision of adequate fire protection and customer service needs. It is responsible for repair of damages to the system of water mains, water services and water meters which distribute the water supply to customers and to the fire protection system.

Sewage Collection System

The Public Works Department also maintains the sewage collection system.

Park and Street Tree Maintenance

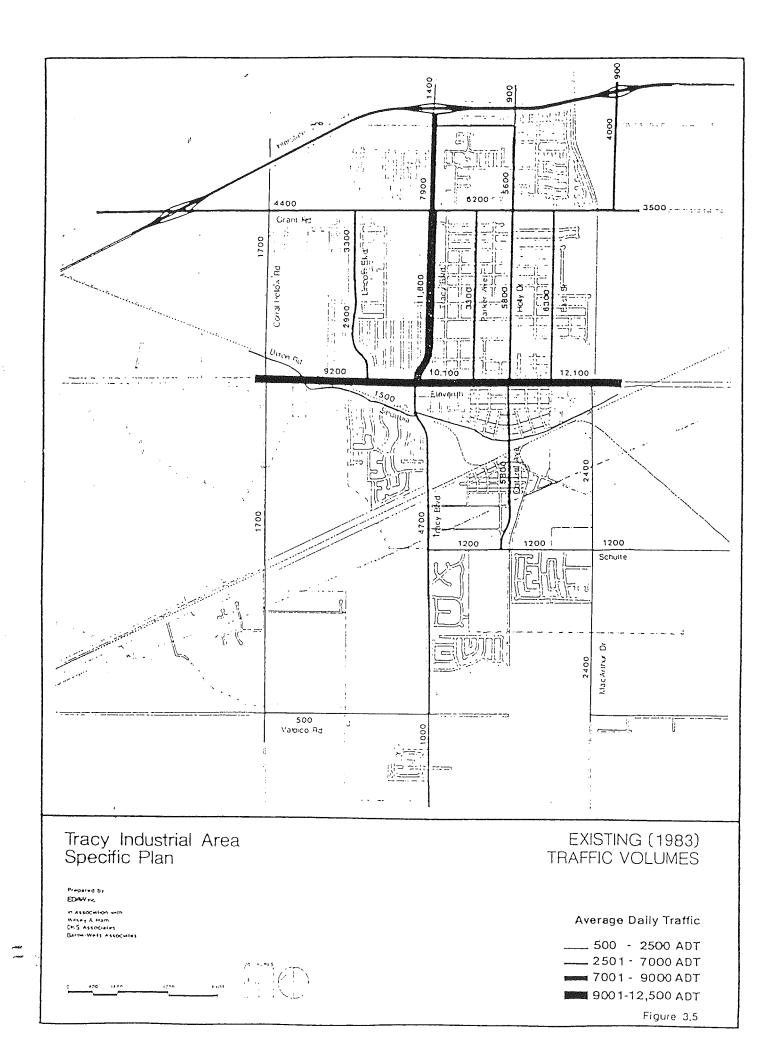
The division provides maintenance of all parks and open space within the City, as well as periodic street tree pruning and maintenance.

3.4.2.4 General Government

The departments discussed in this section include: Community Development, Finance, Personnel and the City Manager's staff. Each of these departments currently has its office within City Hall, which is located at 400 East 10th Street.

City Hall has recently been expanded to consolidate existing departments into one building. Portions of the Community Development Department, however, are still in temporary facilities adjacent to the main building. No additional office space is presently available within City Hall.

The Community Development Department is organizing a "one-stop" permitting process. Once in place, this system will streamline the procedure for obtaining subdivision, zoning and building permits. A Planning Technician position has been created which will give advice to inquiring developers and review plans that are submitted.



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Impacts & Mitigation

Andrew Stage

4. IMPACTS AND MITIGATION

4.1 Physical Environment

4.1.1 Geology and Soils Impacts and Mitigation

4.1.1.1 Impacts

While some soils within the Industrial Specific Plan areas are characterized by slow water permeability and moderate to high shrink-swell capacity, properly designed building foundations which divert runoff to the proposed storm drainage system should avoid potential impacts.

4.1.1.2 Mitigation

Building in compliance with standard California building codes will most likely mitigate impacts associated with soils and earthquake hazards.

4.1.2 Hydrology and Water Quality Impacts and Mitigation

4.1.2.1 <u>Impacts</u>

Surface Hydrology

No impacts are anticipated.

Groundwater Resources

The groundwater basin has in the past met the City's additional demands for potable water. However, this water is of a lower quality than that received from the Delta-Mendota Canal. The groundwater in the Tracy area has historically been high in Total Dissolved Solids (TDS) and calcium carbonate concentrations. It is expected that approximately 35 percent of the maximum daily demand will have to be supplied by groundwater at ultimate build-out of the Specific Plans.

Historically the drawdown on existing wells has had little impact on the groundwater supply in Tracy. During winter months the groundwater table has been relatively high in northern areas of the City. With existing municipal wells being greater than 200 feet deep, it appears that any resulting impacts will be inconsequential.

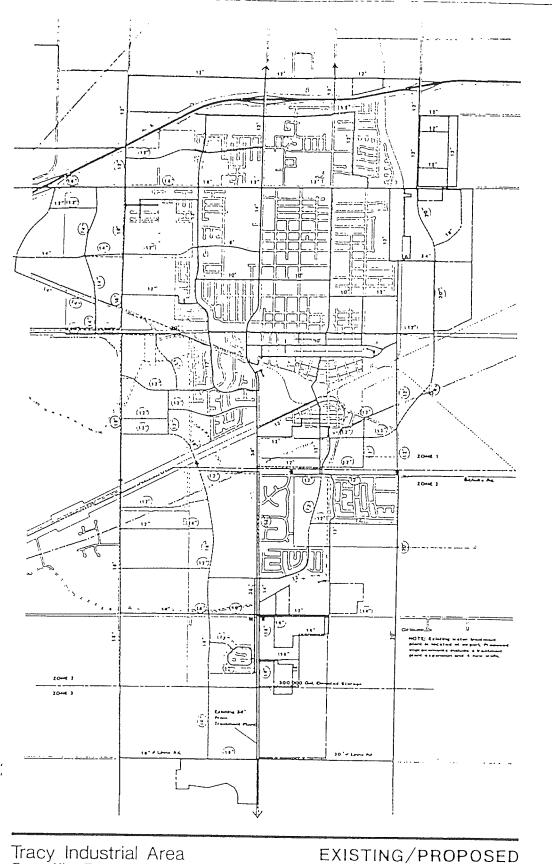
Storm Drainage

The Specific Plan designates the type and size of a storm drainage network that will carry the anticipated storm runoff. In some areas it replaces and/or relocates some portions of the drainage network adopted in the Storm Drainage Master Plan (Figure 4.1).

The Master Plan will require revisions to account for these changes. In general, these changes relocate the west branch of the system in the reach between Eleventh Street and Valpico Road. The new location will parallel the proposed Sycamore Parkway as indicated in Figure 4.1. The east branch of the system will essentially remain as proposed in the Master Plan. These deviations will not impact the overall performance of the system.

Two alternative concepts were considered for storm drainage discharge. The first alternative considers running the outfall along Corral Hollow to a basin north of Larch Road as indicated in Figure 4.1. The outfall for this basin would be an open channel running easterly to Sugar Cut. The second alternative considers utilizing the facilities of the Westside Irrigation District as the outfall of the system. The existing facility runs westerly along Grant Line Boulevard. The first of these alternatives have been used in determining a drainage system for the Specific Plan Area. Both alternatives are under active consideration by the City of Tracy.

During most of the year the channel networks will have water running in them. The channels, for the most part, will be in a flow condition (i.e., less than one foot depth), and hence, will not pose any hazard to persons within the Specific Plan areas. During the few times when the channels are in high flow conditions, there may be some hazard, and in order to mitigate these hazards, the channels will be designed to have a maximum velocity of four to six feet per second and side slopes planned to allow a person who has accidentally fallen into the channel to be able to escape without major difficulty.



Tracy Industrial Area Specific Plan

WATER DISTRIBUTION SYSTEM

FIGURE ST 7 (......

- Existing Water Main
 & Size

 Proposed
 Proposed Required
 for Specific Plan
- ___ Pressure Zone
- · o Existing/Proposed Pump
- Existing/Proposed
 ** Water Tank
- C Proposed Reservoir
- + Pressure Reducing Valve

Figure 4.1

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Since 1984, the City has been working towards implementing the adopted Storm Drainage Master Plan. Historically, however, new developments in the southern areas have been built with temporary systems of retention basins on site. The Specific Plan subdivisions will also be required to develop interim systems (i.e., retention basins) if all segments of the storm drainage network are not constructed concurrently. This could become an impact, especially in the southern areas of the City, where the better quality groundwater system. A set of criteria for mitigating these potential impacts from numerous interim systems is included in the Specific Plan.

Additionally, the Specific Plan area development will alter existing drainage patterns and may increase the water surface runoff in localized areas beyond that which was estimated in the Master Storm Drainage Plan. Any increased water surface runoff would invariably mean an increase in water-borne pollutants caused by development. These pollutants could be, but not limited to, various kinds of oils and detergents. As an example, oils or detergents from road parking lot and industrial surfaces could be introduced into the storm drainage system. They in turn could be transported to a retention basin allowing infiltration into the groundwater or transported to local river basins causing an increase in the concentration of pollutants.

Water Quality

It is estimated that at buildout of the Industrial and Residential Specific Plan areas water demand will have increased 70 percent. To meet this demand, the Kennedy Jenks Report dated July 1985, suggests combining groundwater with the current water supply. The resulting mixture would be higher in both TDS and calcium carbonate levels. The quality of water, however, is still expected to meet health standards (see Section 4.2.1.1, Municipal Water for more information).

4.1.2.2 Mitigation

In addition to the measures addressed below, further actions, if necessary, will fall under the "Threshold Guidelines," which establish limits on the amount and type of industrial uses based on then-current infrastructure capacity (see Section 2.3.1.1).

Surface Hydrology

The decision to convert irrigation channels to storm drainage channels was made during the preparation of the Storm Drainage Master Plan. Any necessary mitigation measures will be implemented in conjunction with that document. Expansion plans of the treatment plant should be initiated to accommodate the maximum allowable allotment by Delta-Mendota Canal.

Ground Water Resources

In order to mitigate the impacts of high TDS and sulfates, some wells will be upgraded or abandoned to lower or climinate these levels. Studies of the water supply options for the City of Tracy's water system have indicated which existing wells will be upgraded or abandoned. These recommendations are outlined in the Final Report on the Evaluation of Water Supply Options by Kennedy/Jenks Engineers dated July 1985.

Storm Drainage

In order to properly implement the storm drainage plan proposed by the Specific Plan, the hydraulic design of the system must be verified prior to any development within the Specific Plan areas. Construction of the storm drainage system could be performed in stages, starting at the outfall and working its way upstream. Development not yet served by the channel network could be allowed to develop provided that the intact drainage systems are designed to the hydraulic gradient of the channel. Temporary retention basins will be used until the construction of the channel reaches these developments. The temporary basins will then be phased out and proper connections made to the channel.

During low flow conditions in the channel, there could potentially be unacceptable levels of pollutants in the water. In order to mitigate this problem, several measures can be taken to lower the pollutant levels to acceptable standards. These measures could be incorporated into the final design of the channel system. One possibility might be to provide a constant minimum flow in the channel system. The other might be to incorporate a series of "trapped" catch basins. In either case, the final solution would be dependent upon the requirements of the various governing agencies involved.

Water Quality

In order to mitigate the impacts of high TDS and sulfates, some wells will be upgraded or abandoned to lower or eliminate these levels. Studies of the water supply options for the City of Tracy's water system have indicated which existing wells will be upgraded or abandoned. These recommendations are outlined in the Final Report on the Evaluation of Water Supply Options by Kennedy/Jenks Engineers dated July 1985.

4.1.3 Air Quality Impacts and Mitigation

Air Quality

4.1.3.1 Impacts

The only potentially significant air quality impacts associated with the Specific Plan are the direct result of increased motor travel. Using an average work-based trip length of ten miles, the estimated 10,851 average daily vehicle trips associated with the plan result in 108,510 additional vehicle miles of travel per day. Using the 1995 Vehicle Emission Factors and assuming that vehicles are operated from a cold start condition 21 percent of the time, a hot start condition 27 percent of the time, and a hot stabilized condition 52 percent of the time, the following emission levels for an average speed of 25 miles per hour: \(^1\)

POLLUTANT	EMISSION RATE	TOTAL EMISSIONS
Carbon Monoxide	14.84 gm/mi	1.80 tons/day
Hydrocarbons	1.46 gm/mi	0.18 tons/day
Nitrogen Oxides	1.25 gm/mi	0.15 tons/day
Sulfur Oxides	0.24 gm/mi	0.03 tons/day
Particulates	0.32 gm/mi	0.04 tons/day

^{1/} EMFACGC Emission Factors, California Statewide Mix of Vehicles 1980-2000. The Air Resources Board. 1981

The earbon monoxide emissions are 1 percent of the 1987 projected emissions for San Joaquin County, while the hydrocarbon and nitrogen oxide emissions are 1 and 5 percent, respectively.²

4.1.3.2 Mitigation

Mitigation measures in addition to those prescribed by the San Joaquin County Air Quality Management Plan could include implementation of the proposed bikeway plan and increased transit programs.

4.2 Biological Environment

4.2.1 Vegetation and Wildlife Impacts and Mitigation

4.2.1.1 Impacts

Vegetation

Existing vegetation will be removed and replaced with ornamental landscaping, structures and other improvements.

Due to the primarily agricultural use and low habitat significance of the on-site vegetation, these changes would not be significant impacts.

Wildlise

Wildlife currently found on the site would be significantly reduced. Most of the little wildlife habitat on the site would be eliminated and replaced with urban habitat. Most species currently on the site would decline in numbers, and species associated with urban habitats would increase.

^{2/ &}quot;San Joaquin County 1982 Air Quality Management Plan", the San Joaquin County Planning Department, June 22, 1982.

4.2.1.2 Mitigation

Reduction in on-site vegetation and wildlife is considered unavoidable, but not a significant impact. If any evidence of an endangered plant or animal is found, a qualified biologist should be consulted. As a mitigation measure, drainage channels and parkways could be designed partly as a wildlife habitat.

4.3 Sociocultural Environment

4.3.1 Cultural Characteristics Impacts and Mitigation

4.3.1.1 Impacts

Fifty percent build-out of the Industrial Areas Specific Plan is expected to generate approximately 9,000 additional jobs within Tracy. These jobs will be primarily available in manufacturing, transportation and service industries. Temporary construction employment may be available.

While this increment of industrial development is planned to coincide with full build-out of the Residential Areas Specific Plan, only 30 percent of the 10,300 employed residents are expected to work in Tracy. Assuming one-half of those employed residents work in the industrial areas, approximately 1,545 jobs would be held by local residents living in the Residential Specific Plan areas. Additionally, a portion of the industrial areas' employees may be derived from existing community residents. With a high estimate of 15 percent of the total available jobs (1,360 jobs), plus the employees from the Residential Areas, local-based employees could be approximately 2,900, or 32 percent at fifty percent build-out of the plan.

As the industrial areas continue to develop, the proportion of workers from outside the community may lessen and Tracy will evolve into a community with a balance of jobs and housing.

4.3.1.2 Mitigation

No mitigation measures are necessary.

4.3.2 Historic Resource Impacts and Mitigation

4.3.2.1 <u>Impacts</u>

Due to the disturbed nature of the lands within the Industrial Areas Specific Plan and the absence of previous historic site documentation, no historic resource impacts are anticipated.

4.3.2.2 Mitigation

If an historic site is located during any on-site excavation, a qualified archaeologist should be retained to oversee the excavation process.

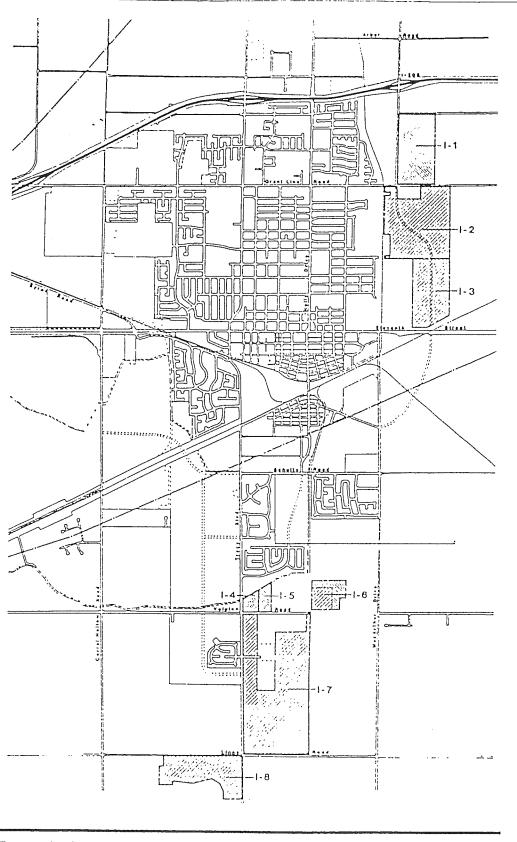
433 Land Use and Land Use Planning Impacts and Mitigation

4.3.3.1 Impacts

Land Usc

The overall land use concept the Tracy Industrial Specific Plan is intended to provide a framework for land development which coordinates public improvements, yet allows flexibility in land use choices to respond to future market conditions. In order to accomplish this, two zoning categories, Limited and General Industrial, are designated for the areas addressed by the Specific Plan (Figure 4.2). These categories allow a variety of office, industrial and warehousing uses. Heavy industrial uses are allowed in areas with a General Industrial designation and may require additional environmental review if environmental performance standards will not be achieved. Design guidelines are provided in the plan which pertain to site development requirements, parking and on-site circulation, building architecture, lighting, signage and landscaping. Standards are also given for design and development of the roadway and storm drainage systems.

Two tables are provided to supplement the Industrial Areas Specific Plan Land Use Map (Figure 4.2). Table 4.1 describes the land use designations and sewer allocations for each parcel covered by the plan. Table 4.2 represents a typical development scenario at 50 percent build-out.



Tracy Industrial Area Specific Plan

LAND USE

MANUAL AND THE LAND THE STATE OF THE STATE O

Limited industrial

General industrial

1-1 Reference Number

Proposed Roedweys

Figure 4.2

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Table 4.1
Industrial Areas Specific Plan
Land Use Program

Development Parcel	Property Owner	Total <u>Acres</u>	General Industrial <u>Acres</u>	Estimated Industrial <u>Acres</u>
I-1	Interland	76.42	0	76,42
I-2	Santa Fe Pacific	142.13	142.13	()
I-3	Pombo	74.29	74.29	0
I-4	Murphy	10.00	()	1().()()
I-5	Murphy	1(),()()	()	10.00
I-6	Cose	34.09	16.53	17.56
I-7	Union Pacific	221.58	221.58 ^a	
I-8	Teichert	74.95	74.95b	()
	Totals	643.46	529.48	113.98

^a 48.21 acres within this designation are within a Design Review Overlay Zone.

b 74.95 deres within this designation are within the Airport Overlay Zone.

TRACY IXCUSTRIAL AREAS SPECIFIC PLAX ALTERNATIVE PROSPAR SURFARY TABLES

501 Build-out/ Preferred Alternative

	22093	DC T		OFFICE		SEXERAL	/ LIGHT IKD	USTRIAL	WAREHO	USE / DISTR	TOTAL	TOTAL	
PARCEL	ACREAGE	ACREAGE	1	S.F.	Wet Acres	ī	S.F.	Nel Acres	1	٤.۶.	Net Acres	S.F.	Emplayers
1-1	74.42	44.94	101	44,320	5.25	421	279,651	29.86	481	375,175	29.86	671,146	1,135
1-2	142.13	170.81	101	124,324	10.∞	121	518,843	55.40	481	401,304	55.10	1,248,473	2,118
1-7	74.29	63.15	81	50,530	1.00	431	277.029	29.58	501	322,126	29.58	149,484	1,073
1-4	10.00	8.50	251	22,738	1,90	351	31,374	3.35	401	36,482	3,35	90,594	179
1-5	10.∞	8.50	221	21,475	1.70	01	, 0	0.00	781	74.052	4.80	95.527	166
1-6	34.09	28.98	51	15,791	1.25	411	124.373	13.28	531	160,519	14.74	300.482	478
1-7	221.58	188.34	01	. 0	0.00	461	881,940	94.17	541	1.025.511	94.17	1,907,151	2,869
1-8	71.95	17.24	01	0	0.00	161	298,382	31.86	541	346,955	31.86	615,337	971
Totals	643.46	546.94	101	303,178	- 21,00	371	2,411,591	257.50	531	2,894,128	265.76	5,608,895	8,989

PLANNING FACTORS:

- 4 ISI of gross acreage to roads and drainageways
- * Net acreage * gross acreage less roads and drainageways
- * I = percentage of parcel's total square-footage
- + Parting lactors:
 - 1/300 s.f. office
 - 1/600 s.f. light industrial
 - 1/800 s.f. warehouse / disribution
- · Site Utilization factors:

 - Office: 2 story, 291 building, S&I parking, ISI landscaping/circulation Light Industrial: 1 story, 431 building, 241 parking, 331 landscaping/circulation
 - Warehouse/Distribution: 1 story, 501 building, 211 parting, 291 landscaping/circulation
- 4 Parking coverage analyzed at 330 s.f. per car

While future development patterns may not result in these exact proportions of land use types and gross square footages, this scenario indicates what is likely to occur given current industrial development trends and the Specific Plan's development guidelines.

A unique feature of the Industrial Specific Plan are the "Environmental Performance Standards" and "Threshold Guidelines." These guidelines establish limits on the amount and type of industrial uses, based upon the availability of infrastructure capacity and the potential for environmental pollutants.

Development in the Specific Plan areas will have the effect of extending the city's urban edge and permanently converting agricultural lands to industrial uses. Approximately ten percent of this land is currently used for a variety of row crops. Taking this minimal amount of land out of active production does not appear to represent a significant impact on agricultural production in the County. Furthermore, several of the parcels are presently surrounded by existing urban development or development scheduled by the Residential Areas Specific Plan. Converting these lands will represent infill development, will reduce the discomforts caused by farming activities to adjacent residents and the resulting impacts on valuable agricultural land use are considered, as stated in the 1982 General Plan EIR, to be overridden by the social and economic benefits of the provision of jobs and a balanced community. The remaining agricultural lands have been dormant for some time. Their conversion has been planned since adoption of the 1982 General Plan and EIR and does not represent a negative impact.

Land Ownership

Numerous privately owned parcels must be acquired to provide land for storm drainage and roadway rights-of-way. The Specific Plan requires owners to set aside land for facilities designated on their property. While some rights-of-way may require on-site land dedication, in most cases, owners will be reimbursed for property reserved for public facilities. The Specific Plan implementation section (Section 5.0) establishes guidelines for property dedication and financing strategies for reimbursement.

Certain capital improvements, such as roads and the storm drainage system, will require off-site land acquisition to complete the network of facilities. In particular, the improvements to

MacArthur Drive, the segment of the storm drainage system which is proposed between the railroad line and Lowell Avenue, and the storm drainage channel to Sugar Cut will necessitate the City to negotiate land acquisition through a process of eminent domain. These parcels are currently owned by private parties which are not participants in the 84-1 Assessment District. Land acquisition could possibly be limited to acquisition of development rights. Appraised value of these lands is unknown.

Land Use Planning

The proposed Specific Plan is consistent with the goals and objectives of the Tracy General Plan. Section 2.0 of the Specific Plan document includes goals and objectives taken directly from the general plan which pertain to the proposed project.

The proposed Specific Plan land use map differs from the current general plan map for its designated locations of General Industrial and Limited Industrial. The land identified for industrial use is, however, the same land planned for by the Industrial Areas Specific Plan.

Land uses allowed by the Industrial Areas Specific Plan are not consistent with the permitted uses under the current Tracy Zoning Code standards for M-1 and M-2 zones. However, the uses allowed by the Specific Plan are generally more limited than those permitted by the Zoning Code.

4.3.3.2 Mitigation

Land Use

If the design guidelines of the Specific Plan are followed, no additional mitigation measures are required.

Land Ownership

Specific details for off-site improvements land acquisition should be developed. If land cannot be acquired, the infrastructure systems must be redesigned.

Land Use Planning

The following mitigation measures are suggested to mitigate impacts associated with Land Use Planning:

- Approval of the proposed General Plan amendment.
- Amendment of the Zoning Ordinance to be consistent with both the Specific Plan and the General Plan, as required by Government Code Section 65455.

4.3.4 Transportation Impacts and Mitigation

Summary

Within the City of Tracy, the traffic impacts of the combined development of the Residential Areas Specific Plan and the Industrial Area Specific Plan at 50 percent of build-out (the Preferred Alternative) are largely mitigated by roadway improvements incorporated into the Specific Plan itself. However, there will be significant additional impacts to the regional freeway system, particularly Interstate 205. Cooperative efforts to find solutions to the problem of rising travel demand in the I-205 corridor become all the more important given development of the industrial areas.

4.3.4.1 <u>Impacts</u>

To facilitate the traffic impact analysis of the Industrial Areas Specific Plan, seven new traffic analyses zones (TAZ's) were added to the Tracy City-wide TRACS model originally created to study the Residential Areas Specific Plan's traffic impacts. Table 4.3 indicates the correspondence between Development Parcels and TAZ's, as well as traffic generation by TAZ.

Trip Generation

Table 4.3 indicates the expected trip generation of each TAZ under the Industrial Areas Specific Plan Preferred Alternative. Trip generation rates assumed for the three major types of uses within the industrial areas are as shown in Table 4.4

Table 4.3

Trip Generation by Traffic Analysis Zone (TAZ)

50% Buildout (Preferred Alternative)

TAZ#	Land Usc	Quantity	PM Peak Volumes	ADT Volumes	Equivalent Development Parcel
16	Office Lt. Industrial Warehouse Total Zone 16	66.3 KSF 279.7 KSF 325.2 KSF 671.1 KSF	142 229 <u>237</u> 608	792 1,522 <u>1,587</u> 3,901	I-1
17	Office Lt. Industrial Warchouse Total Zone 17	176.9 KSF 795.9 KSF 925.5 KSF 1,898.2 KSF	389 653 <u>676</u> 1717	2,176 4,330 4,516 11,022	I-2, I-3
18	Office Lt. Industrial Warehouse Total Zone 18	15.8 KSF 124.4 KSF 160.5 KSF 300.7 KSF	35 102 <u>117</u> 259	194 677 <u>783</u> 1,654	I-6
19	Office Lt. Industrial Warchouse Total Zone 19	44.2 KSF 31.4 KSF 110.6 KSF 186.1 KSF	97 26 <u>81</u> 204	544 171 539 1,253	I-7
20	Office Lt. Industrial Warehouse Total Zone 20	0 KSF 955.2 KSF 1,110.7 KSF 2,065.9 KSF	80 783 <u>811</u> 1,574	0 5,196 <u>5,420</u> 10,617	I-7
21	Office Lt. Industrial Warchouse Total Zone 21	0 KSF 298.4 KSF 347.0 KSF 645.3 KSF	0 245 253 498	0 1,623 1693 3,317	I-8
	TOTALS	5,895.3 KSF	5.001	32,542	

Note: KSF = Thousands of square feet

Table 4.4
Project Trip Generation Rates

	Daily Trips	PM I	Peak Hor	ur Trips
	Per 1,000 Sq. Ft.	In	Out	Total
Warchouse	4.88	0.24	0.49	0.73
Lt. Industrial	5.43	0.27	0.54	0.81
Office	12.30	0.40	1.80	2.20

These rates were developed based on surveys of these uses by the Institute of Transportation Engineers (ITE) and the California Department of Transportation CalTrans).³

Trip Distribution

Trip distribution entails determining destinations for trips generated by the project. Since the vast majority of trips generated by the industrial uses during the afternoon peak hour represent employee commute trips, the distribution of Industrial Areas Specific Plan trips is largely a function of where Industrial Areas Specific Plan employees will live. A smaller proportion of trips generated by industrial area uses will represent non-commute trips: pick-up and deliveries, office visitor trips, etc.

Based on discussions with City of Tracy staff and the types of land uses involved, the following trip distribution was assumed for the Industrial Areas Specific Plan:

•	15 percent:	To and from existing residential areas or the Residential Specific Plan Areas.
•	30 percent:	To and from the "Phase 2" residential areas generally west of the current Specific Plan Residential Area. Tracy's Sewer System Master Plan indicates that this area could support on the order of

• 5 percent: To and from potential new residential areas south and east of the current limit of urban development.

5,000 dwelling units.

^{3/} ITE <u>Trip General</u> (1982) and CalTrans District 4, <u>Progress Reports</u> on Trip Ends General Research Counts. (Various dates).

• 25 percent: To and from cities to the east reached via Interstate 205 (e.g.,

Manteca and Ripon).

15 percent: To and from cities to the south reached via I-580 or State Route 132

(c.g., Patterson and Modesto).

• 10 percent: To and from the Bay Area via I-205 and I-580.

It should be noted that the freeway-oriented traffic includes most of pick-up, delivery, office visitor and other non-commute traffic.

Traffic Assignment

Once the trip distribution was determined, new trips were assigned to the Tracy street network and the regional highway system. In general, the shortest path from origin to destination was used, but the routings developed tend to avoid, when possible, areas where heavy traffic is anticipated even without the Industrial Areas Specific Plan. Such heavy traffic areas include segments of Tracy Boulevard, Central Avenue and Eleventh Street.

Analysis of Traffic Impacts - Preferred Alternative (50 percent build-out)

The traffic impacts of the Industrial Areas Specific Plan Preferred Alternative were calculated using an expanded version of the Tracy City-wide TRACS model. In addition to the seven new TAZ's, nine additional intersections--potential points of traffic congestion--were selected for analysis:

- East Street/Grant Line Road
- East Street/Eleventh Street
- MacArthur Drive/Grant Line Road
- MacArthur Drive/Eleventh Street
- MacArthur Drive/Valpico Road
- . MacArthur Drive/Linne Road
- Corral Hollow Road/Valpico Road
- Corral Hollow Road/Linne Road
- Tracy Boulevard/Linne Road

In the model, street improvements under the "with project" scenario were assumed to be the same as those assumed for the Residential Areas Specific Plan, with two important additions.

- MacArthur Drive is assumed to be developed as a four-lane major arterial from Eleventh Street to Schulte Road.
- The one-half mile "missing link" of Valpico Road west of MacArthur Drive is presumed to be built as a two-lane facility.

Table 4.5 summarizes all Specific Plan Arterial Improvements.

Afternoon peak-hour volume-to-capacity (V/C) calculations were performed at a total of 25 existing and five future intersections. Table 4.6 compares 1986 baseline conditions with those which will prevail given development of the Industrial Areas Specific Plan Preferred Alternative, the Residential Areas Specific Plan and the roadway improvements associated with these Plans. Volume/capacity ratios were calculated using the planning methodology described in the Transportation Research Board's Circular 212, (1980). Refer to Level of Service Table in the "Setting" section for a description of the concepts of intersection volume/capacity ratio and levels of service (LOS).

All intersections in the study area currently exhibit LOS "A" - excellent operations. Given development of both the Residential Areas Specific Plan and the Industrial Specific Plan Preferred Alternative service levels would degrade, but with three exceptions, no intersection would exhibit a LOS worse than LOS "C" (LOS "C" has been adopted as the limit of acceptability for the Specific Plan areas). Potential improvements to the three intersections with unacceptable service levels (Tracy/Eleventh, Holly-Central/Eleventh and Corral Hollow/Schulte) are discussed in the "Mitigation" section below.

Figure 4.3 presents Average Daily Traffic volumes projected to occur under the Preferred Alternative.

Table 4.5

Specific Plan Arterial Street Improvements Assumed in Traffic Model

Residential Areas Specific Plan:

Roadway	Segment	Improvement
Grant Line Road Corral Hollow Road Tracy Boulevard MacArthur Drive Lowell Avenue Schulte Road Central Avenue Sycamore Parkway	Tracy Blvd. to I-205 Grant Line to E. Schulte Centre Court to Linne Schulte Road to 11th St. Corral Hollow to Lincoln Corral Hollow to MacArthur Dr. N. of Schulte to Tracy Blvd. Corral Hollow to Tracy Blvd.	Widen to 4 lanes + median Widen to 4 lanes + median Widen to 4 lanes Widen to 4 lanes + median Build 4-lane arterial Extend road and widen to 4 lanes Extend road to 4-lane arterial Build 4-lane arterial

Industrial Areas Specific Plan

Roadway	Segment	<u>Improvement</u>
MacArthur Drive	11th Street to I-205	Build 4-lane arterial
Valpico Road	West of MacArthur Dr.	Extend roadway

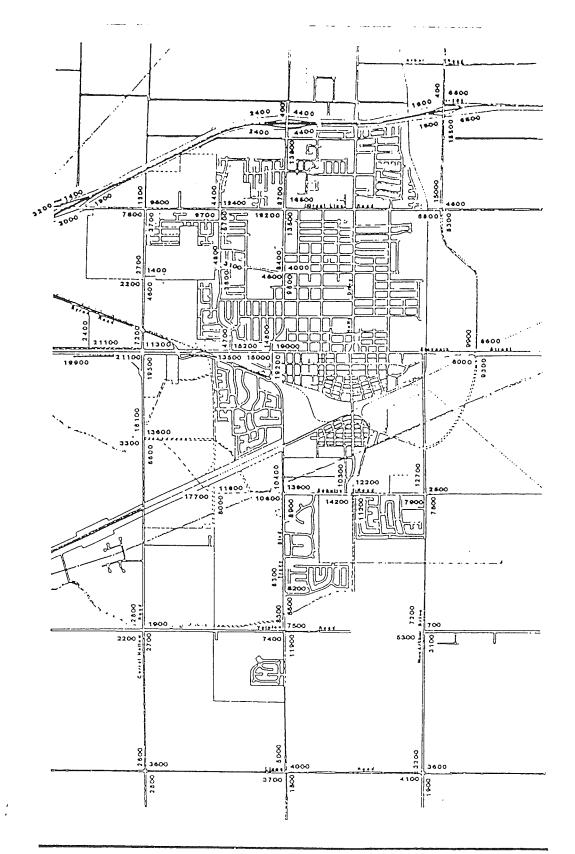
Table 4.6

Volume/Capacity Ratios and Service Levels at Key Intersections

	Intersection	Existing	With Preferred Alt. (Residential and Industrial) + 550 Units Infill
1.	Corral Hollow/Grant Line	0.28A	0.36A
2.	Lincoln Boulevard/Grant Line	0.43A	0.45A
3.	Tracy/Grant Line	0.59A	0.67A
4.	Corral Hollow/Lowell	N/A	0.18A
5.	Lincoln/Lowell	0.09A	0.1074 0.20A
6.	Tracy/Lowell	0.22A	0.51A
7.	Bryon/Eleventh	N/A	0.50A
8.	Corral Hollow/Eleventh	0.30A	0.69B
9.	Lincoln/Eleventh	0.35A	0.42A
10.	Tracy/Eleventh	0.49A	0.91E*
11.	Holly-Central/Eleventh	0.50A	0.86D*
12.	Corral Hollow/Cypress	N/A	0.40A
13.	Tracy/Centre Court	0.24A	0.44A
14.	MacArthur/Third-Mt. Diablo	0.10A	0.37A
15.	Corral Hollow/Schulte	N/A	0.80D*
16.	Sycamore/Schulte	N/A	0.53A
17.	Tracy/Schulte	0.31A	. 0.54A
18.	Central/Schulte	0.21A	0.71C
19.	MacArthur/Schulte	0.14A	0.43A
20.	Tracy/Central	0.16A	0.38A
21.	Tracy/Valpico	0.13A	0.65B
22.	East/Grant Line	0.33A	0.34A
23.	East/Eleventh	0.34A	0.37A
24.	MacArthur/Grant Line	0.38A	0.62B
25.	MacArthur/Eleventh	0.20A	0.47A
26.	Corral Hollow/Valpico	0.09A	0.26A
27.	MacArthur/Valpico	0.11A	0.60B
28.	Corral Hollow/Linne	0.09A	0.36A
29.	Tracy/Linne	0.12A	0.45A
30.	MacArthur/Linne	0.12A	0.36A

^{*}Intersection requiring mitigation.

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Tracy Industrial Area Specific Plan

PROJECTED TRAFFIC VOLUMES

New York by
EDAW
h terrestriction with
Section Wide - OCE - Widney & Han

New York Was - OCE - Widney & Han

Average Daily Traffic (ADT) Levels at 50 percent build-out

Figure 4.3

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Freeway Impacts

Table 4.7 summarizes the Industrial and Residential Areas Specific Plans' combined impact on key freeway ramps. Table 4.8 summarizes impacts to mainline freeway volumes. Ramp impacts of the Industrial Areas Specific Plan will be substantial on I-205, particularly at the eastbound on-ramp of the MacArthur Drive interchange, where 860 new trips can be expected during the p.m. peak hour due to industrial development. This added traffic will bring total peak hour traffic on the ramp to about 1,080 or 72 percent of capacity (approximately 1,500 vehicles per hour). Mainline freeway volumes will also increase substantially on I-205 with most of the traffic added by the Industrial Areas Specific Plan occurring to the east of the MacArthur Drive interchange.

Public Transit

Although Tracy's existing paratransit service (Tracy Transit) is open to all Tracy residents, in practice most patrons do not use its service for journey-to-work and journey-from-work trips. Thus, the impact of industrial development on existing services should not be as extensive as that of the Residential Areas Specific Plan.

4.3.4.2 Mitigation

Additional Intersection Improvements

The majority of transportation impacts of the Industrial Areas Specific Plan Preferred Alternative are pre-mitigated by roadway improvements incorporated into the Specific Plan itself. Table 4.9 indicates additional off-site improvements at three intersections. The cost for all of these improvements is estimated to be on the order of \$150,000.

Table 4.7

Freeway Ramp Volumes-PM Peak Hour
(50 Percent Build-Out)

	Ramp Location	1986 Existing <u>Volume</u>	Volumes Added by Specific Plan Including <u>Residential</u> *	Total <u>Volumes</u>
<u>I-2</u>	05			
1.	Eleventh St. Interchange Westbound on Eastbound off	250 250	410 830	660 1,080
2.	Grant Line Interchange Eastbound on Westbound off Westbound on Eastbound off	150 150 100 80	20 40 140 280	170 190 240 360
3.	Tracy Bl. Interchange Eastbound on Westbound off Westbound on Eastbound off	370 370 220 220	30 60 10 10	400 430 230 230
4.	MacArthur Interchange Eastbound on Westbound off Westbound on Eastbound off	220 210 70 70	860 390 160 70	1,080 600 230 140
<u>I-58</u>	<u>30</u>			
5.	Corral Hollow Interchange Eastbound on Westbound off Westbound on Eastbound off	30 30 20 20	0 0 170 80	30 30 190 100
6.	Chrisman Interchange Eastbound on Westbound off Westbound on Eastbound off	50 90 0	130 60 0 0	180 150 0 0

^{*}Estimated based on CalTrans volumes in 1976 and 1980.

Table 4.8

I-205 and I-580 Mainline Volumes - PM Peak Hour
(50 Percent Build-Out)

Location	1986 Existing <u>Volume</u>	Volumes Added by Specific Plan Including Residential*	Total <u>Volumes</u>
<u>I-205</u>			
West of Eleventh Street Interchange			
Westbound Eastbound Total	 3,150	720 1,190 1,910	 5,060
East of MacArthur Drive Interchange			
Westbound Eastbound Total	 2,950	390 860 1,250	4,200
<u>I-580</u>			
West of Corral Hollow Interchange			
Westbound Eastbound Total	1,900	170 80 250	 2,150
East of Chrisman Road Interchange			
Westbound Eastbound Total	 730	130 60 190	 920

^{*}CalTrans, 1985 Trassic Volumes

Table 4.9

Additional Off-Site Intersection Improvements

	Intersection	Improvement	V/C an <u>Before</u>	d LOS <u>Aster</u>
1.	Holly-Central/Eleventh*	Add lest turn pockets east-west	.87D	.76C
2.	Tracy/Eleventh*	. Add northbound, eastbound and southbound right turn pocket	.91E	.79C
3.	Corral Hollow/Schulte	Add second southbound left turn pocket	.80D	.60B

^{*}Note: These improvements supersede the mitigation measures developed for the Residential Areas Specific Plan development only.

Intersection Signalizations

Analysis of projected average daily traffic (ADT) volumes given build-out of the Residential Areas Specific Plan and the Industrial Areas Specific Plan Preferred Alternative indicates that signals will be required at the following intersections:

Industrial Areas Specific Plan	Residential Areas Specific Plan
Eleventh/Corral Hollow Mt. Diablo/MacArthur Drive Schulte/MacArthur Drive Valpico/Tracy Boulevard Eleventh/MacArthur Drive Grant Line/MacArthur Drive Grant Line/Corral Hollow	Corral Hollow/Lowell Avenue Lincoln/Lowell Corral Hollow/Cypress Drive Corral Hollow/Schulte Sycamore/Schulte Tracy Boulevard/Centre Court Tracy Boulevard/Tennis Lane Tracy Boulevard/Schulte Central/Schulte West Eleventh/New Byron Road Eleventh/Fabian

I-205 Mitigation

While freeway ramps serving Tracy have adequate capacity to accommodate 50 percent build-out of the Industrial Areas Specific Plan, the freeway impacts identified in the preceding section are substantial. Development of the Industrial and Residential Areas Specific Plans, plus continuing development in Manteca, Ripon and other communities dependent upon I-205, make it important for these communities to work with each other and with CalTrans to increase the capacity of this freeway link. City of Tracy officials should adopt a policy to pursue funding for the widening of I-205. Local officials should also work to promote traffic mitigation measures throughout the I-205 corridor to delay this need for widening.

Paratransit and Transit Mitigations

Although demand for paratransit services is more a function of residential rather than industrial growth, development of the Industrial Areas Specific Plan will spur further residential growth in Tracy. Furthermore, by creating large new employment concentrations, industrial development could generate demand for fixed route transit service. These new employment concentrations will certainly create new markets for car and vanpool services, particularly among employees living outside of Tracy. Employers and landowners in the Industrial Areas Specific Plan should work with local government agencies to help plan and promote an appropriate mix of transit and paratransit services as the City grows and changes.

43.5 Noise Impacts and Mitigation

4.3.5.1 Impacts

The primary source of noise associated with the Specific Plan will be directly related to increases in highway traffic. In order to assess the noise impacts associated with the Specific Plan, increases in highway generated noise⁴ were estimated using the traffic volumes depicted in Section 3.3.5, and the 1981 Noise Contours in the 1982 Tracy General Plan. For selected major

^{4/ &}quot;Highway Noise Generation and Control," The Transportation Research Board, NCHRP Report 173. 1976.

arterial or freeway segments, an increase in noise level was first calculated on the basis of projected increases in traffic volumes resulting from the Specific Plan. Subsequently, the 1981 noise contours were adjusted to reflect the higher calculated noise levels. The results of this analysis appear in Table 4.10.

All of the projected impacts are less than two decibels—the level at which the change in noise level would begin to become perceptible. The segment from Tracy to East Street on Grant Line Road ((+3.12 dB) is an exception, however, the distance to the Ldn 65dB contour is less than 130 feet, which is reasonable for urban arterial streets. Ldn 65db contour distances exceed 200 feet along I-205, and 150 feet on Eleventh Street between Lincoln and Holly Boulevard, and Central Avenue between Eleventh and Third Streets.

The Southern Pacific and Western Pacific Railroads are also significant sources of noise in Tracy, but trail frequency is not expected to change as a result of the Tracy Specific Plan. The 1981 and 1995 Noise Contours reported in the Tracy General Plan are therefore applicable to the Tracy Specific Plan, with the maximum Ldn 65db contour distances reaching 130 feet on the Tracy to Lathrop Line of the Southern Pacific Railroad and 180 feet along the Western Pacific Railroad.

4.3.5.2 Mitigation

The Industrial Areas Specific Plan addresses the issue of noise in Sections 4.1.2, Environmental Standards and 4.2.8, Noise Standards. The former prohibits uses which create a sound pressure level in violation of any regulation of any public body having jurisdiction. The latter provides design guidelines including berms, noise insulation, landscaping and setbacks to minimize noise impacts. It also proposes to, where possible, avoid locating other noise-sensitive uses on sites with an exterior noise level greater than 60 dBA Ldn.

^{5/ &}quot;Public Health and Welfare Criteria for Noise", U. S. Environmental Protection Agency Report No. 55019-73-002. 1973.

Table 4.10

Noise Impacts and Contour Distances
Resulting from Implementation of the
Tracy Specific Plan

Road	Road Segment	Increase Over 1983 Levels (Ldn)	of t	tance fro he Road 70Ldn	dway (Fo	eci)
I-205	Corral Hollow to Tracy Blvd. East of Tracy Blvd.	+ 0.70dB + 1.52dB	56 63	120 136	256 290	548 620
Grant Line Rd.	Corral Hollow to Lincoln Blvd. Lincoln to Tracy Blvd. Tracy to East St.	+ 1.74dB + 1.71dB + 3.12dB	22 21 27	46 45 57	99 98 122	213 211 261
Tracy Blvd.	I-205 to Grant Line Rd. Grant Line Rd. to Lowell Lowell to Eleventh St.	+ 0.16dB + 0.85dB + 1.51dB	17 19 21	36 40 45	78 86 95	166 185 204
Eleventh Street	Corral Hollow to Lincoln Blvd. Lincoln St. to Tracy Blvd. Tracy Blvd. to Holley St.	+ 0.50dB + 1.00dB + 1.51dB	30 33 36	65 70 76	139 151 163	299 322 349

4.4 Public Facilities

4.4.1 Utility System Impacts and Mitigation

4.4.1.1 Impacts

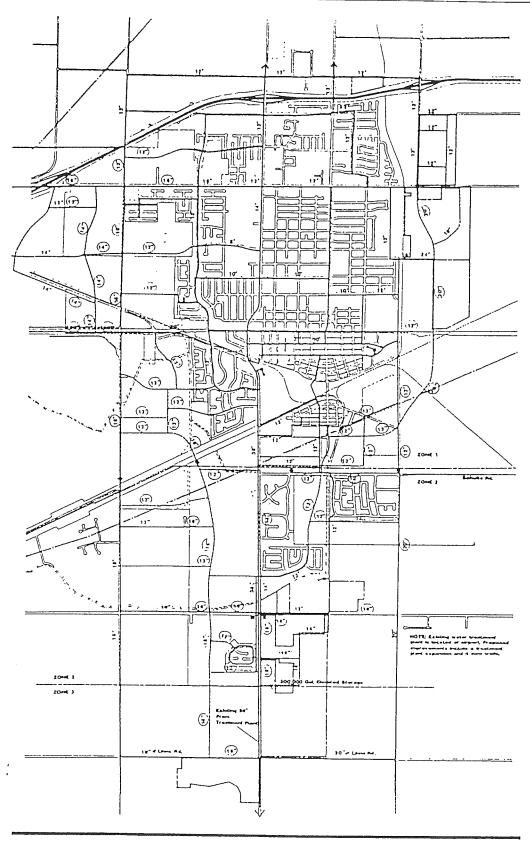
Municipal Water

Presently the City of Tracy has the available water supply and distribution system to meet its current demand. However, future growth cannot be accommodated by the system unless an expansion plan is undertaken.

It is estimated that the Industrial and Residential Specific Plan areas will increase the demand on the existing system by approximately 70 percent at ultimate build-out. Based on the projected growth rate of these areas and infill development, the current allocation will be exceeded by the year 1989. Thus a second source of potable water must be found.

While possible sources include (1) an increased entitlement from the Delta-Mendota Canal, (2) acquisition of an entitlement from the California Aqueduct and (3) new wells drilled where ground water of better quality exists, it was concluded from the Kennedy/Jenks report dated July 1985, that the most viable solution to expanding the water supply would be for the City to combine groundwater with the treated water from Delta-Mendota Canal. Thus as the Specific Plan areas grow, the percentage of groundwater in the system increases to meet this demand. Being that the groundwater has high TDS and sulfate levels, the net result would be a slight lowering of the overall quality of potable water. It is anticipated, however, that the overall quality of water delivered to the City will be within the Department of Health Service's Secondary Drinking Water Standards for TDS and sulfates.

The Kennedy/Jenks report additionally calls for increasing the capacity of the treatment plant to 15 mgd, upgrading and abandoning certain existing wells, and drilling new wells in areas of lower TDS and sulfate levels. These measures, along with the addition of an elevated storage tank and new primary and secondary transmission mains would meet the needs of the future growth of the community. The proposed Specific Plan would provide for these mitigation measures, with the exception of several water mains which are not considered necessary to the Plan (Figure 4.4).



Tracy Industrial Area Specific Plan

EXISTING/PROPOSED WATER DISTRIBUTION SYSTEM

EDAW <u>...</u> () #., 12, 10.,

- Existing Water Main &Size

 Proposed
- Proposed, Required for Specific Plan ___ Pressure Zone
- u a Existing/Proposed Pump
- • Existing/Proposed
 • Water Tank
- C Proposed Reservoir
 - + Pressure Reducing Valve

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Wastewater

Construction is presently underway to expand the wastewater treatment plant to accommodate the increased demand included in Assessment District 84-1. The Specific Plan areas are all located within this district. Therefore, the necessary sewer services have been allowed for. The Specific Plan guidelines take this into account and densities have been, in part, based on these allocations.

Solid Waste

The planned growth within the Specific Plan areas will increase the requirements for solid waste disposal. The present remaining capacity of the disposal site is estimated to be approximately 800,000 cubic yards. This is roughly equivalent to a remaining service life of four to five years at the present volume of wastes received.

The Specific Plan areas annual projected growth will reduce the service life of the disposal site to approximately three years. This reduced service life will encourage the City and County to accelerate their efforts to find new alternative sites for continued waste disposal services.

Electrical and Natural Gas

Existing electrical and natural gas lines may require relocation within the roadway for roads that are specified to be improved as outlined by the Specific Plan. Service may temporarily be disrupted during the relocations of these facilities.

Telephone

Telephone lines and facilities may require relocation within the roadway template for roads that are to be improved by the Specific Plan. Service may temporarily be disrupted during the relocation of these lines and facilities.

4.4.1.2 Mitigation

Municipal Water

The Specific Plan does not provide any mitigation measures to lower the TDS and sulfates introduced into the water system, other than providing locations for new wells that have minimum levels of these contaminates. A detailed engineering analysis and report on the proposed water system improvements will be needed to verify the pipe sizes and the configuration of the system proposed by the Kennedy/Jenks report.

Solid Waste

In order to mitigate the impacts of the solid waste disposal, efforts must be accelerated to find a new disposal site for Tracy. Final selection of the site should be made at least one year prior to the existing site reaching its capacity.

To mitigate the increased cost for equipment and operations, the City should make every effort to review on an annual basis its user fees, franchise fees and transfer station revenues. Any cost increases should be distributed appropriately.

4.4.2 Public Service Impacts and Mitigation

4.4.2.1 <u>Impacts</u>

Police Services

While the need for increased police services is readily apparent, the extent of such services will be largely dependent upon the specific amount of growth ultimately generated. It is anticipated that services will increase incrementally as needed. Demand for support staff, including communications personnel, record supervisors, secretaries, and aides, will increase proportionally with the demand for officers.

The police department is rapidly approaching the need to establish a fifth beat within the city. The determination of a fifth beat incorporates two factors, the estimated number of calls for service and the size of the area to be covered. As Tracy continues to expand southward, the ability of one unit to adequately cover the area decreases. The addition of a fifth beat would also require additional personnel for proper beat management (Tracy Police Department, January 17, 1986).

The increased demand for police department staff also generates a demand for office space at the station. The department would prefer to remain centrally located in one facility.

Fire Protection

The Residential Areas Specific Plan has designated a site in the southwest quadrant of the intersection of Tracy Blvd. and West Central Avenue for a permanent South Station. This station will serve the south industrial area and will replace the nearby interim station and will have the capacity to house a 1,500 gpm Pumper Truck, an 85-foot Aerial Snorkel Truck, and support vehicles. It will also provide space for three firefighters and a shift officer. The eastern industrial area will be served by the main station.

In addition to the proposed staff at the new station, the Fire Department estimates a need for another firefighter position at the North Station and an Administrative Captain position at the Main Station. Support staff may be required as well.

The department has also estimated a need for an updated dispatch system and a training tower.

Public Works

Additional staff and equipment will be required to operate the new capital facilities required by the Specific Plans, and to maintain the additional roads, utility systems, street trees, and parks. Estimates of the required number of new positions was not available at the time of this writing, however, staff can in some instances be reduced through economies of scale.

The proposed financing mechanisms will have the ability to provide funds for a portion of these costs. The remainder will be generated from tax revenues funneled to the General Fund.

General Government

As the community expands, additional staff and possibly new departments may be necessary. For instance, as the City government staff increases, the alternative of a separate personnel department which coordinates all personnel related issues may need review. Precise estimates of these staffing needs cannot be made until individual workloads begin increasing.

4.4.2.2 Mitigation

Police Services

Funds for police staff and building expansion could be generated either through the proposed Mello Roos Community Facilities District or impact fees. Matching funds from either state or federal sources should be pursued.

Expansion of police headquarters should be coordinated with the plans of the entire governmental complex.

Fire Protection

Funding mitigation is identical to that specified for the Police Department.

Public Works

Precise staffing and equipment estimates should be prepared, so that specific funds can be generated over time.

General Government

Precise staffing and equipment estimates should be prepared, so that specific funds can be generated over time.

Growth-Inducing Impacts

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5. GROWTH INDUCING IMPACTS

The Tracy Industrial Areas Specific Plan, under the 50 percent build-out scenario, proposes approximately 5.6 million sq. ft. of office, general and light industrial and warehousing and distribution uses. The areas targeted for this development are within the City's first planned expansion ring, identified as "Phase I" by the Tracy General Plan.

Implementation of the Industrial Areas Specific Plan, as well as the Residential Areas Specific Plan, will cause the local infrastructure, specifically the roadway network, the water, sewer, and storm drainage systems, and the utility lines, to be expanded. While land outside the City must be annexed prior to any provision of municipal service, the excess capacities and location of these new infrastructure systems will inevitably make it easier and more efficient to develop outside the existing city boundaries. For example, the Industrial Areas Specific Plan's proposed extension of Valpico Road from Tracy Boulevard through to MacArthur Drive could induce growth both to the north and south of that segment. Additionally, ultimate widening of MacArthur Drive to a six-lane arterial, with storm drainage and water system improvements, could provide sufficient excess capacity to induce growth to the east. While the land south of Valpico Road to Linne Road and portions of the land between MacArthur Drive and Chrisman Road are designated as Phase II Industrial Development Areas, and uncontrolled transfer of sewer capacity from Assessment District 84-1 could result in isolated development surrounded by vacant land, growth beyond these areas would be contrary to current General Plan policies.

To mitigate these potential growth inducing impacts, the City could adopt a policy pertaining to sewer capacity transfers outside the 84-1 Assessment District, which would limit transfers to areas which when developed will be orderly, compact, contiguous, logical, planned growth of the City well-served by municipal services. Such a policy is currently being considered for adoption by the City. However, it is expected that additional phases of capacity expansion for the sewage treatment plant will be underway before the increment of development allowed by this EIR is completed. Therefore, additional infrastructure capacity may be available for further industrial and residential development and similar capacity transfer policies should be adopted in the future.

The growth inducing impacts of the proposed plan may be considered from two points of view: (1) the plan is responding to the regional demand for industrial development which is being generated by economic, employment and housing growth in the Tri-Valley subregion and in San Joaquin County; and (2) the Industrial Areas Specific Plan could help the City of Tracy realize its stated General Plan goal of establishing a balance of jobs and housing in the community.

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Cumulative Impacts

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6. CUMULATIVE IMPACTS

The Tracy Industrial Areas Specific Plan represents a large portion of the nonresidential development potential within the current City limits. This 643-acre project accounts for all of the City's land targeted for Phase I industrial development. Other projects affecting the natural and built environment include: infill development within the City, the Residential Areas Specific Plan, Phase II industrial development and a proposed mixed use development along I-205 within San Joaquin County jurisdiction.

Infill development within the City is presently limited to 550 equivalent dwelling units by Sewer Assessment District 84-1. The Residential Areas Specific Plan proposes approximately 7,540 new residential units. Future utility demands from both of these programs have been included in the master planning for each utility system. These units were also added into the transportation model during the assessment of traffic impacts. The results of this analysis are discussed in Section 4.3.4.1. No other additional cumulative impacts are anticipated as a result of the combined Specific Plan and infill development.

The 1982 General Plan identified approximately 475 acres within the City's sphere of influence as areas for Phase II Industrial Development. These lands do not have sewer, water or storm drainage service at this time. Future sewage treatment plant expansions and additional water sources, as well as certain roads, would be required to provide infrastructure service to these parcels. There are no plans by the City, at this time, to provide such improvements.

Cumulative impacts from development along I-205 also cannot be estimated due to the preliminary nature of this project. A market study is currently being prepared to determine the scope of future commercial growth in this area. However, once the project is defined, an Environmental Impact Report will be prepared.

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Unavoidable Adverse Impacts

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7. UNAVOIDABLE ADVERSE IMPACTS

The environmental impacts discussed in Sections 4.0, 5.0, 6.0, and 9.0 consist of short-term, long-term and cumulative effects which may be associated with implementation of the proposed Specific Plan. Those impacts which would be unavoidable or potentially unavoidable despite mitigation measures are summarized below under the headings as presented in Section 4.0 where they are discussed in greater detail.

7.1 Physical Environment

7.1.1 Geology and Soils

No unavoidable adverse impacts relating to geology and soils are anticipated to result from the proposed Industrial Areas Specific Plan.

7.1.2 Hydrology and Water Quality

Unavoidable adverse hydrology and water quality impacts include: (1) alteration of existing drainage patterns, (2) a decrease in groundwater recharge over the planning areas, (3) an increase in water-borne pollutants as a result of runoff from urbanized areas.

713 Air Quality

As a result of project implementation, there will be an unavoidable increase in the emissions of carbon monoxide, ozone, and suspended particulates, primarily associated with mobile sources.

7.2 Biotic Resources

7.2.1 Vegetation

Unavoidable adverse impacts on botanical resources include: (1) loss of existing vegetation and associated wildlife habitat; (2) loss of productive agricultural land; (3) introduction of ornamental plants, both weedy and horticultural.

7.2.2 Wildlife

Unavoidable adverse impacts on wildlife include loss or displacement of wildlife through removal or alteration of habitat.

7.3 Sociocultural Environment

7.3.1 Cultural Characteristics

No unavoidable adverse impacts are anticipated.

7.3.2 Historic Resources

No unavoidable adverse impacts are anticipated.

7.3.3 Land Use and Land Use Planning

Unavoidable adverse impacts on existing land use include conversion of existing active and dormant agricultural lands to urbanized uses. It is assumed that, in general, this impact may be an adverse one to some and a positive improvement to others.

7.3.4 Transportation

No unavoidable adverse impacts are anticipated.

7.3.5 Noise

No unavoidable adverse impacts are anticipated.

7.4 Public Facilities

No unavoidable adverse impacts are anticipated.

7.4.1 Utility Systems

No unavoidable adverse impacts are anticipated.

7.4.2 Public Services

No unavoidable adverse impacts are anticipated.

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Alternatives



8. ALTERNATIVES

Four land use alternatives were considered for the areas within the Specific Plan:

- No Project Alternative
- Preferred Alternative (50 percent build-out)
- 70 percent Build-out Alternative
- 100 percent Build-out Alternative

The following sections describe each alternative and assess their potential impacts. The discussion of impacts is generalized and is intended to be used in conjunction with the more detailed analysis provided in Section 4.0. A final section compares the alternatives in terms of their estimated traffic impacts.

No Project Alternative

This alternative assumes that no development will occur within the Industrial Specific Plan areas. It is an unlikely scenario because the program to expand the wastewater system is already under construction and sewer allocations have been purchased by the area's landowners. Prohibiting development would require the City to return the funds which have been paid to the project; a prohibitively costly undertaking.

The municipal water system improvements would have to be implemented regardless of no development because the State has requested the City to develop alternative water resources in the event of a disaster. Most segments of the Storm Drainage Master Plan would be constructed in order to serve the Industrial Specific Plan areas. Expansions to the public service departments would not be needed.

In summary, the No Project Alternative, while retaining several active agricultural parcels, would require significant capital outlays by the City without obvious opportunities for generating revenues. Impacts on the City budget would most likely be significant.

Preferred Alternative (50 Percent Build-out)

This alternative assumes fifty percent of the land within the Industrial Areas Specific Plan will be developed in a ten-year period according to the land use program shown previously in Figure 2.6. The impacts associated with this alternative have been assessed in Section 4: Impacts and Mitigation. It is assumed that prior to approval of the next increment of industrial growth in these areas, additional environmental analysis will be required.

70 Percent Build-out Alternative

In this alternative, 70 percent of the land within the Industrial Areas Specific Plan will be developed over a 15-year period. Implementation of this alternative will require improvement of several intersections, as well as expansion of MacArthur Drive to a six-lane arterial. All other infrastructure systems (water, sewer, storm drainage) will be built to full capacity prior to 50 percent build-out.

Because it is expected that additional residential development will occur in the vicinity of the Industrial Specific Plan areas following 50 percent build-out of the plan, impacts on these areas and cumulative transportation impacts cannot be estimated.

100 Percent Build-out Alternative

This alternative assumes full build-out of the development potential of the Industrial Areas Specific Plan. Build-out is expected to occur over a 20-year period. Implementation of this alternative will not only require improvement of MacArthur Drive to a six-lane arterial, but will also require expansion of an on-ramp to Interstate 205 (either at MacArthur Drive or at Eleventh Street) and possible mainline I-205 improvements.

Comparison of Traffic Impacts

The traffic impacts of two alternative levels of industrial development--70 percent and 100 percent build-out--were modeled in addition to the Preferred Alternative (50 percent). As with the Preferred Alternative, the traffic impacts of the two other alternatives were modeled in

TRACY INDUSTRIAL AREAS SPECIFIC PLAN ALTERNATIVE PROSRAM SUMMARY TABLES

501 Build-out/ Preferred Alternative

				OFFICE		BENERAL	\ FIEKL IKD	JSTRIAL	WAREHO	USE / DISTRI	BUTION	1014	TOTAL
PARCEL	eross Adreage	NET ACREAGE	ĭ	5.F.	Net Acres	1	S.F.	Net Acres	1	S.F.	Het Acres	S.F.	Employees
1-1	76.42	64.96	101	66,320	5, 25	421	277,651	29.86	481	325,175	29.86	671,146	1,135
1-2	142.13	120.81	101	126,324	10.00	421	518,843	55.40	481	403,306	55,40	1,248,473	2,118
1-3	74.29	63.15	18	50,530	4.00	431	277,029	29.58	501	322,126	29.58	649,634	1,073
1-4	10.00	8,50	251	22,738	1,80	351	31,374	3.35	401	36,482	3.35	90,591	179
1-5	10.00	8.50	221	21,475	1.70	01	. 0	0.00	781	74,052	6.80	95,527	166
1-6	34.09	28.98	51	15,791	1.25	411	124.373	13.28	531	160,519	14.74	300,652	478
1-7	221.58	188.34	01	. 0	0.00	461	881.940	91.17	541	1,025,511	94.17	1,907,151	2,869
1-8	74.95	63.71	01	0	0.00	461	298,382	31.86	541	346,955	31.86	645,337	971
Totals	643.46	546.94	101	303,178	21.00	371	2,411,591	257.50	531	2,894,126	265.76	5,603,895	8,989

PLANNING FACTORS:

- * 15% of gross acreage to roads and drainageways
- 4 Net acreage * gross acreage less roads and drainageways
- 1 1 * percentage of parcel's total square-footage
- Parking factors:
 - 1/300 s.f. office
 - 1/600 s.f. light industrial
 - 1/800 s.f. warehouse / disribution
- 4 Site Utilization factors:
 - Office: 2 story, 291 building, 561 parking, 151 landscaping/circulation
 - Light Industrial: 1 story, 431 building, 241 parking, 331 landscaping/circulation Warehouse/Distribution: 1 story, 501 building, 211 parking, 291 landscaping/circulation
- # Parking coverage analyzed at 330 s.f. per car

TABLE 8.1 COATLANDS
TRACY INDUSTRIAL AREAS SPECIFIC PLAN
ALTERNATIVE PROGRAM SUMMARY TABLES

701 Build-out Alternative

				OFFICE		BEKERAL	\ FIEHL INDO	ISTRIAL	WAREHO	OUSE / DISTRI	IBUIIOX	TOTAL	TOTAL
PARCEL	eross Acrease	NET ACREAGE	ı	S.F	Wet Acres	1	S.F.	Net Acres	1	s.f.	Net Acres	S.f.	Employees
1-1	76.42	64.96	101	92,848	5.25	121	391,511	29.86	481	155,246	29.86	939,605	1,581
1-2	142.13	120.81	101	176,854	10.00	121	726.380	55.40	481	844,628	55.40	1,747,862	2,965
1-3	74.21	63.15	81	70,741	4.00	431	387,840	29.58	501	450,977	29.58	909,558	1,502
1-4	10.00	8.50	251	31,834	1.50	351	43,924	3.35	401	51,074	3.35	126,831	251
1-5	10.00	8,50	221	30,065	1.70	01	. 0	0.00	781	103,673	6.80	133,738	523
1-6	34.09	28.98	51	27,107	1.25	411	174,122	13.28	531	224,726	14.74	120,954	644
1-7	221.58	188.34	01	. 0	0.00	461	1,234,716	91.17	541	1,435,716	94.17	2,670,431	4,017
1-8	74.95	63.71	01	0	- 0.00	461	417,734	31.86	541	485,738	21.86	903,472	1,359
lotals	643.46	546.94	101	424,449	21.00	371	3,376,227	257.50	531	4,051,777	265.76	7,852,452	12,585

1001 Build-out Alternative

			OFFICE		GENERAL	GENERAL / LIGHT INDUSTRIAL		WAREHOUSE / DISTRIBUTION			101AL	107	
	GROSS Acreage	NET ACREAGE	1	S.F.	Het Acres	1	S.F.	Net Acres	1	S.F.	Het Acres	S.F.	Employers
1-1	76.42	64.96	101	132,640	5.25	121	559,302	29.86	491	450,351	29.86	1,342,293	2,271
1-2	142.13	120.81	101	252,648	10.00	421	1,037,686	55.40	481	1,206,617	55.40	2,496,946	1,235
1-2	74.29	63.15	81	101,059	4.00	431	554,057	29.58	501	644,252	29.58	1,299,369	2,146
1-4	10.00	8.50	251	45,477	1.80	351	62,748	3.35	401	72,963	3.35	181,188	359
1-5	10.00	8.50	221	42,950	1.70	01	. 0	0.00	781	148,104	6.80	191,054	331
1-6	34.09	28.98	51	31,581	1.25	411	248,745	13.78	531	321,037	14.74	601,363	956
1-7	221.58	188.34	01	` 0	0.00	461	1,763,879	94.17	541	2,051,023	94.17	3,814,902	5,739
1-8	74.95	63.71	01	0	0.00	461	596,763	31.86	541	119,294	31.86	1,290,674	1,942
lotals	643.46	546,94	51	606,355	24	431	4,823,181	258	521	5,788,253	266	11,217,789	17,979

conjunction with full development of the Residential Areas Specific Plan and 550 infill development units. The trip distribution and traffic assignment assumed for the Preferred Alternative was also assumed for the 70 percent build-out and 100 percent build-out scenarios. The same trip generation rates were also used for all three alternatives.

A comparative analysis of the impacts of the Preferred Alternative (50 percent build-out) and the two alternatives' impacts on intersection service levels is presented in Table 8.2.

Analysis of Traffic Impacts

Both the 70 percent build-out and the 100 percent build-out scenarios would require additional traffic mitigation measures. Examining Table 8.2, it is evident that under the 70 percent build-out scenario a total of five intersections show unacceptable service levels (LOS "D" or worse) compared with three intersections under the Preferred Alternative (50 percent build-out). Given 100 percent build-out of the industrial areas, the traffic forecast model indicates the number of intersections at LOS "D" or worse would climb to ten.

For the significantly impacted intersections south of Eleventh Street, it will be possible under either of the alternatives to develop fairly simple and inexpensive mitigations that can be implemented within planned rights of way (ROW), e.g., turn pockets and auxiliary lanes not more than a few hundred feet in length. At the intersections of Eleventh Street with Tracy Boulevard and Holly-Central, the mitigations identified in Table 4.9 will be marginally adequate under the 70 percent build-out scenario and possibly adequate under the 100 percent build-out scenario.

On MacArthur Drive above Eleventh Street, more substantial mitigations appear warranted. Under the 70 percent build-out scenario it would be desirable to develop MacArthur as a six-lane facility; under the 100 percent build-out scenario it would be imperative to do so.

Freeway ramp and mainline freeway impacts may be of even greater significance than impacts to local streets. Examination of Table 8.3 and 8.4 indicates that under either Industrial Areas Specific Plan alternative, the eastbound on ramp at the MacArthur interchange on I-205 will be close to or above theoretical capacity--within ten percent of capacity under the 70 percent

Table 8.2

Comparison of Volume/Capacity Ratios and Service Levels at Key Intersections - Preferred Industrial Alternative and 70 Percent and 100 Percent Build-Out of Industrial Areas

	Intersection	50% <u>Build-Out</u>	70% Build-Out	100% Build-Out
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28.	Corral Hollow/Grant Line Lincoln Bl./Grant Line Tracy/Grant Line Corral Hollow/Lowell Lincoln/Lowell Tracy/Lowell Byron/Eleventh Corral Hollow/Eleventh Lincoln/Eleventh Tracy/Eleventh Holly-Central/Eleventh Corral Hollow/Cypress Tracy/Centre Court MacArthur/Third-Mt. Diablo Corral Hollow/Schulte Sycamore/Schulte* Tracy/Schulte Central/Schulte MacArthur/Schulte Tracy/Central Tracy/Central Tracy/Central Tracy/Valpico East/Grant Line East/Eleventh MacArthur/Grant Line MacArthur/Grant Line MacArthur/Eleventh Corral Hollow/Valpico MacArthur/Valpico Corral Hollow/Linne			
29. 30.	MacArthur/Linne MacArthur/Linne	0.45A 0.36A	0.60B 0.46A	0.83D* 0.61B

^{*}Intersection requiring mitigation.

Note: All three scenarios assume full development of the Residential Areas Specific Plan Preferred Alternative and 550 infill development units.

Table 8.3
Freeway Ramp Volumes-PM Peak Hour
(70 Percent Build-Out)

	Ramp Location	1986 Existing Volume*	Volumes Added by Specific Plan Including <u>Residential</u>	Total <u>Volumes</u>
<u>I-20</u>	<u>)5</u>			
1.	Eleventh St. Interchange Westbound on Eastbound off	250 250	410 830	660 1,080
2.	Grant Line Interchange Eastbound on Westbound off Westbound on Eastbound off	150 150 100 80	20 40 140 280	170 190 240 360
3.	Tracy Bl. Interchange Eastbound on Westbound off Westbound on Eastbound off	370 370 220 220	30 60 20 10	400 430 240 230
4.	MacArthur Interchange Eastbound on Westbound off Westbound on Eastbound off	220 210 70 70	1,200 550 230 100	1,420 760 300 170
<u>I-58</u>	<u>80</u>			
5.	Corral Hollow Interchange Eastbound on Westbound off Westbound on Eastbound off	30 30 20 20	0 0 240 120	30 30 260 140
6.	Chrisman Interchange Eastbound on Westbound off Westbound on Eastbound off	50 90 0 0	180 90 0	230 180 0

^{*}Estimated based on CalTrans counts in 1976 and 1980.

Table 8.4

Freeway Ramp Volumes-PM Peak Hour
(100 Percent Build-Out)

	Ramp Location	1986 Existing <u>Volume</u> *	Volumes Added by Specific Plan Including <u>Residential</u>	Total <u>Volumes</u>
<u>I-2</u>	:			
1.	Eleventh St. Interchange Westbound on Eastbound off	250 250	410 830	660 1,080
2.	Grant Line Interchange Eastbound on Westbound off Westbound on Eastbound off	150 150 100 80	20 40 140 280	170 190 240 360
3.	Tracy Bl. Interchange Eastbound on Westbound off Westbound on Eastbound off	370 370 220 220	30 60 20 10	400 430 240 230
4.	MacArthur Interchange Eastbound on Westbound off Westbound on Eastbound off	220 210 70 70	1,720 780 330 140	1.940 990 400 210
<u>I-58</u>	<u>30</u>			
5.	Corral Hollow Interchange Eastbound on Westbound off Westbound on Eastbound off	30 30 20 20	0 0 340 170	30 30 360 190
6.	Chrisman Interchange Lastbound on Westbound off Westbound on Eastbound off	50 90 0 0	260 130 0	34() 220 0 0

^{*}Estimated based on CalTrans counts in 1976 and 1980.

Table 8.5

I-205 and I-580 Mainline Volumes - PM Peak Hour
(70 Percent Build-Out)

I-2(Location :	1986 Existing Volume	Volumes Added by Specific Plan Including Residential*	Total Volumes
	— st of Eleventh Street Interchange			
	Westbound Eastbound Total	3,150	790 1,220 2,040	5,160
Eas	t of MacArthur Boulevard Interchange			
	Westbound Eastbound Total	 2,950	550 1,200 1,750	 4,700
<u>I-58</u>	0			
Wes	st of Corral Hollow Interchange			
	Westbound Eastbound Total	1,900	240 120 360	 2,260
East	of Chrisman Road Interchange			
	Westbound Eastbound Total	 730	90 180 270	1,000

^{*}CalTrans, 1985 <u>Traffic Volumes</u>

Table 8.6

I-205 and I-580 Mainline Volumes - PM Peak Hour
(100 Percent Build-Out)

<u>Location</u>	1986 Existing <u>Volume</u>	Volumes Added by Specific Plan Including <u>Residential</u> *	Total Volumes
<u>I-205</u>	· ·		
West of Eleventh Street Interchange			
Westbound Eastbound Total	3,150	900 1,260 2,160	 5,300
East of MacArthur Boulevard Interchange			
Westbound Eastbound Total	 2,950	780 1,720 2,500	 5,450
<u>I-580</u>			
West of Corral Hollow Interchange			
Westbound Eastbound Total	 1,900	340 170 510	2,410
East of Chrisman Road Interchange			
Westbound Eastbound Total	73()	260 130 390	1,120

^{*}CalTrans, 1985 Traffic Volumes

build-out and 50 percent over capacity under the 100 percent build-out scenario. While some traffic may divert to either the Tracy Boulevard interchange to the west or use Grant Line Road to access I-5 interchanges at Berry Road and Kasson Road to the east, demand at the MacArthur/I-205 eastbound ramp will likely approach capacity (approximately 1500 vehicles per hour) during the p.m. peak. It may be necessary to develop a higher capacity interchange at this location.

Mainline I-205 volumes would be between 5,000 and 6,000 both east and west of the City under the two alternative scenarios. (See Tables 8.4 and 8.5). Under the 100 percent build-out scenario, the current two eastbound lanes I-205 would likely be at capacity in the p.m. peak hour east of the MacArthur interchange. Widening I-205 to six lanes would mitigate the traffic of development in Tracy; however, developments in communities east of Tracy will be adding additional traffic during the same timeframe as the Tracy Residential and Industrial Specific Plans. Such cumulative development in the I-205 corridor needs to be assessed before planning improvements on I-205.

In contrast to I-205, I-580 ramps and mainline lanes in the study area will have considerable excess capacity, even under the 100 percent build-out scenario.

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Short-Term Long-Term Productivity

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9. SHORT-TERM USE OF MAN'S ENVIRONMENT VERSUS THE MAINTENANCE AND ENHANCEMENT OF LONG-TERM PRODUCTIVITY

In terms of current overall productivity, the primary value of the project area focuses upon its passive status as partially productive agriculture and open space. By anticipating significant urban development, the proposed project places strong emphasis upon socially and economically productive long-term uses. As the project is implemented, values related to the provision of housing, commercial services, employment and an expansion of the local economic base would be realized. At the same time the inherent productivity of the project area as agricultural land and open space would be reduced. From a local perspective, the potential for implementing the proposed urban development while retaining existing values is slight. Provisions within the proposed plan which mandate open space (e.g., buffers, parkways, and storm drainage channels) will aid in maintaining important environmental quality values. A general change from the current perception of expansive open space to one of urban development would, however, be unavoidable.

Development as proposed for Tracy presents tradeoff considerations similar to most urban development in the region. To some extent (dependent upon response to mandatory and optional guidelines for the project), existing visual, open space and biological productivity will be lost in favor of the social and economic productivity of urban development and growth. In this case, significant existing values may be retained and integrated while growth is accommodated in an area not characterized by high agricultural productivity. A long-term overall commitment of the project area to an urban focus will result.

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Energy Supplies *:*

10. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF ENERGY SUPPLIES AND OTHER RESOURCES

Implementation of the proposed project would commit the project area, as a land resource, to long-term industrial use. Industrial facilities and office complexes would be built, utilities installed and a network of roadways constructed, all comprising a portion of an urban community. At that point, the likelihood of reversion to a less intense or significantly different set of uses would become highly improbable because of the large labor and capital investments already committed. As previously discussed, to the extent that open space is preserved through adherence to proposed planning policies and development standards, some conservation of these existing resources can be achieved.

As in any urban development project, implementation of the proposed project will require commitment of several types of limited resources both for actual construction and long-term operation. Obviously, facility construction overall will require relatively large commitments of such resources as lumber and other forest products, sand and gravel, asphalt, petrochemical construction materials, various metals, equipment fuel, and other building materials manufactured from natural resources. In addition, the project would require an irreversible commitment of labor, capital and social and public maintenance services.

Alternative energy sources, such as solar energy, are presently not in widespread use and it will probably be some time before a real savings in finite energy supplies, e.g., oil and natural gas, can be realized through widespread solar planning and design. Therefore, the proposed project, if approved and implemented, will result in an irretrievable commitment of finite energy resources. Although urban development on the site will comply with all applicable state and local insulation, building and conservation standards, the increase in the intensity of land uses will result in a concomitant increase in energy consumption. Inasmuch as fossil fuels are the principal source of energy, project implementation will involve increased consumption of fuel oil (electricity), natural gas and gasoline for transportation of future residents.

11.C

List of Preparers, Bibliography & Persons Contacted

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11. BIBLIOGRAPHY AND LIST OF PREPARERS

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Appendices

DETAILED REPORT FOR DITERSPETION 1

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APPENDIX A

TRAFFIC DATA

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TRACY RESIDENTIAL SPECIFIC PLANS EXISTING CONDITIONS -- 1208 DRS ASSOCIATES

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HIRECTION	NORTHDOUND SOUTHNOUND EASTBOUND RESTIOUND	TOTAL PER LANE CAPACITY -KAN- V/C EATIO LOSS HUC TO NINIHUM PCN TINE VOLHEC - CAPACITY RATIO SERVICE LEVEL
SIRCET	Traca Blod, Traca Blod, Centre Court Centre Court	TOTAL PER LANE CAPACIT FANT VAC RATIO LUSS HUE TO HINI VOLUME CAPACIT SURVICE LEVEL

TRACT RESIDENTIAL SPECIFIC FLANS EXISTING CONDITIONS---1986 RKS ASSOCIATES

DETAILED REPORT FOR THIERSECTION 14

Hacarthur Dr. & 3rd/Ht. Diablo

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TOTAL VOLUMES	o Î				0
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CAPACITY PER LANE	1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
HJHJNUN GREEN	0000	0 4
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HINIHUH LEFT TURH LAHE LEHGTH (TT PER LAHE)	0000	כאה
TOTAL APPEDACH VOLUBE	933 94 0	21.2
GRITIGAL VOLUNE PER LANE	1 6 6 F	1555 1500 0.10 0.00 0.10
STREET NIRECTION	Hararthur Dr. HORTHDOUND Hararthur Dr. SOUTHHOUND 3rd/HL Diabla CASTBOUND 3rd/HL Diabla HESTBOURD	TOTAL. PER LAME CAPACITY -RAH- VC RATIO LUSS NUE TO MIMINUM PEN TIME VOLUME CAPACITY MATIO

DETAILED REPORT FOR INTERSECTION IN

Contrat. A Schulle

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CAPACJIY PCK LANC	1300 1300 1300 1300	
NININUH GREEN	0000	0 %
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HIHIHUH LEFT TURN LANG LEHSTH GFT PER LAND)	ଠଜଗଠ	נאניו
TOTAL APPROACH VOLUNG	104 204 140	438
ERITICAL VOLUNE PER LANE	2013 0	312 1800 0.31 0.00 0.20
, njrection	HORTHUGHID SOUTHHOUNI CASTBOUNI HESTNOUNI	TOTAL. PER LANE CAPACITY FEANT USC RATIO LOSS FUE TO HITHIUM PED FINE VOLUNE " CAPACITY RATIO STRUCT LEVEL
STRECT	Gentral Gentral Schulte Schulte	TOTAL, PER LANE CAPACIT FAM - V/C RATIO LOSS HOG TO HINI VOLUNG - CAPACIT STRVIGT LEVEL

TRACY RESIDENTIAL SPECIFIC PLANS EXISTING CONDITIONS--1984 DES ASSOCIATES

PETATLEB REPORT FOR INTERSECTION 19

Hacarthur & Schulle

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HINTHUN LEFT TURN LANG LENGTH CTT PER LAND)	11 1 3 0 0 0	
TOTAL APPROACH VOLUNE	1000 128 5.4 4.4	338
CRITICAL VALIBIE PIR LABE	32 120 12 12	218 1500 0.14 0.00 0.14
, 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NORTHBOUND SOUTHBOOM EASTBOUND HESTWOUND	TOTAL PER LANE CAPACITY -RANT V/C RATIO LOSS HUE TO RIPHIMH PER TINE VOLUNE - CAPACITY KATIO SERVICE LEVEL
51 <i>n</i> cc1	Hoenethur Hagnethur Scholte Scholte	101AL PER LANE CAPAL -RAH - VAC RATI 1,055 PUE TO HE VOLUNE CAPAC SERVICE LEVEL

TEACY ECSIDENTIAL SPECIFIC FLANS EXISTING CONFLICIONS --1988 OKS ASSOCIATES

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CAPACITY PER LANG	1500 1500 1500 1500	
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HIMINUM LEFT TURN LANE LEMBTN (FT PER LANE)	0 13.4 0 1.4	. כאנו
TOTAL. APPROACH VOLUNG	174 219 0 0	438
CRITICAL VOLUNE PER LANG	ηγ 120 0 3.6	243 1500 0.16 0.16 0.18
, DIRECTION	HORTHOUNID SOUTHHOUND EASTBOUND RESTHOURD	TOTAL, PER LAME CAPACITY -EAH" UZC RATIO LUSS POE TO MINIMUM PEN TIME VOLUME - CAPACITY RATIO SERVICE LEVEL
STREET	Tracy Blvd. Tracy Blvd. Central	TOTAL PUR LANE CAPAC FRAT UZ RATI LOSS BUE TO HI VOLUME - CAPAC SERVICE LEVEL

DETAILED REPORT FOR INTERSECTION 21

Tracu Blod & Valrico Rd

LAME COMFIBURATION		0
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OTAL VOLUBES	<u> </u>	< <u>6</u>
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CAPAGITY PCR LANG	11 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	
HIHIHUR GREEN	0000	0,4
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HINTHUN LEFT TURN - LANG LEHGTH GFT PER LANG)		טאכ
TOTAL APPROACH VOLUNE	1111 9.8 2.18 6.0	27.5
CRTTTCAL VOLUME PER LANE	105	1500 0.130 0.00 0.00 0.13
, MIRECTION	HORTHOOUND SOUTHNOUND EASTBOUND HESTROUND	TOTAL PER LANE CAPACITY FRAT V/C RATIU LOSS DUE TO MINIMUM PED TIME VOLUME - CAPACITY RATIO SERVICE LEVEL
STREET	Traca Blod Traca Blod Valrica Rd Valrica Rd	TOTAL PER LANE CAPAG FRAH V/C RATI LOSS BUE TO HI VULLINE - CAPAG SERVICE LEVEL

TRALY SPECIFIC PLANS PH PEAK HOUR MACKGROUND FACTOR = 1.00. 1966 RASE; YOLUMES - INTERSECTIONS NOT INCLUDED IN RESIDENTIAL PLAN MODEL

THIERSECTION CAPACITY CALCULATION

HITERSECTION

LAST ST. A GRANT LINE RD.

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SIGNAL OPERATION
NOKTH/SOUTH EAST/HEST
SIGNAL COUE 4/4 1/1
SIGNAL TYPE SINGLE Phase SINGLE Phase
MINIMUM GREEN 0 Seconds
CYCLE LEMOTH 0 Seconds

HINIMUM LEFT TURN RITICAL LANE LENGTH		500 0.12 500 0.04 0.00 0.16
וכט	1 1	0.16
MINIMUM GREEN G/C RATIO	00.00	0.00
FRAFFIC V/C RATIO	0.14	0.12
CAPACITY AUJUSTED FRAFFI FOR YELLOH V/C TIME LOSS RATIO	1500	
UNSIC A CAPACITY F PER LANE T	1500	1500
AL CRITICAL RUACH VOLUME UME PER LANE	208 20	3 100
TOTAL APPROACH VOLUME		415
GRITICAL HOVEHENT	2	sattound Through sattound Left Subtotal East-Work
DIRECTION	# 55 55 55	už į
STRECT		GRANT LINE RD.

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SERVICE LEVEL

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INTERSECTION CAPACITY CALCULATION

THICKSECTION

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TOTAL VOLUMES		: : : : : : : : : : : : : : : : : : :)	: =	>		46		2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	=
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CRITICAL V/C RATIO	0.14	0.18	0.32
HINIHU GREEN G/C RATIO	00.0	00.0	
(1)	0.12	0.13 0.05 0.18	
CAFACITY SIC AUJUSTED TRAFFIU PACITY FOR YELLON V/C R LANE TIME LOSS RATIO	1500	1500	1395 476 0.32
E P P E	i i	1500	
(1	1.83	191 7.3	478
UTAL PPROACH OLUME	200	416	1385
CRITICAL MOVEMENI	rthbound Throush uthbound Left Subtotal Horth-South	stbound Through stbound Left Subtotal East-Most	
T CRITICAL A PERENTION NOVEMENT V	Northbound Through Southbound Left Subtotal North-Si	111N SI, Eastbound Ihrough Mestbound left Sobtotal East-Mast	TOTAL.
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HERSECTION CAPACITY CALCULATION

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NACARTHUR UR. GRANI LINE RD.

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ERATION EAST/HEST	. v.	spu
SIGNAL OPERATION NOKTH/SOUTH EAST/	GNAL CODE. 1/1 GNAL TYPE Single Phase Single Pha	o Seconds
	SIGNAL CODE SIGNAL TYPE SIGNAL TYPE HINIHUM GREEN	CYCLE LENGIH

HINIMUN LEFI TURN LANE LENGTH (FT PER LANE)		00	воти в 532 0.36
CRITICAL LUVC KATIO (0 0 0 1 5	0.21	0.36
NINIHUH GREEN G/C RATIO	00.0	0.00	
C)	0.00 0.15 0.15	0.15	
CAFACITY ADJUSTED TRAFFI FOR YELLOM V/C TIME LOSS RATIO	1500 0.15 0.15 0.15	1500	
DASIC CAFACITY PER LANE	1500	1500	
	218	223	533
TOTAL CRITICAL APPROACH VOLUME VOLUME PER LAME	248	371 182	3
CRITICAL HOVENENT	II.	istbound Left istbound Through gubletel Esst-Hest	инсинатистительного поражения в в в в в в в в в в в в в в в в в в в
11 RECT 10N	Morthbound Left Southbound Kight Subtotal North-	m =	unenssusseur TOTAL
1.54415	HACARINUR UR. Morthbound Left Southbound Right Subtotal Horth-South	звант стнЕ КВ.	

DKS ASSUCIATES TRACS 4.2 10/9/87 10:47:30

INTERSECTION CAPACITY CALGULATION

TRACY SPECIFIC PLANS FN FEAK HOUR MACKGROUND FACTOR # 1.00 1706 DASE VOLUMES - INTERSECTIONS NOT INCLUDED IN RESIDENTIAL PLAN HODEL

INTERSECTION

HACARTHUR DR. A 11TH STREET

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SIGNAL OPERATION NOFIH/SOUTH EASI/H

HORTH/SOUTH EAST/HEST
SIGNAL COURT
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SIGNAL TYPE
CYCLE LUNGIH
O Seconds Single Phase Single Phase o Seconds o Seconds

HINIHUH LEFT TURN LANE LENGTH (FT PER LANE			
CRITICAL V/C RATIO	40.0	0.14	0.18 0.18 ×
HINIHUH GREEN G/C RATIU	1	00.0	
TRAFFIC U/C RATIO	0.00	0.11	
CAPACIIY CRITICAL VASIC AUJUSTEN TRAFFIC VOLUME CAFACIIY FOR YELLOM V/C PER LAME FER LAME TIME LOSS RATIO	1500	1500	
DASIC CAPACITY PER LANE	1500	1 1 1	1 1 1
TOTAL CRITICAL AFFROACH VOLUME VOLUME PER LANE	67	165	273
TOTAL APPROACII VOLUME	1.27	330	748
CRITICAL. HOVENENT	gh Slouth	stbound Through stbound Left Subtotal East-Hest	
UTRECTION	200	크로	TUTAL
STREET	HACARTHUR DR.	LITH STREET	

IMACY SPECIFIC PLANS FN FEAK HOUR BACKGROUND FACTOR = 1.00 1988 BASG VOLUMES - INTERSECTIONS NOT INCLUDED IN RESIDENTIAL PLAN HOUEL

INTERSEÉTION CAFACITY CALCULATION

INTERSECTION

CORRAL HOLLOM 3 VALFICO RO.

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LANE CONFIGURATION	0	
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TOTAL VOLUMES	65 65 71. HOI	,
UTAL	65 65 65 65 65	
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	1/1 Single Phase O Seconds nds
	1/1 Single Phase O Seconds O Second
11	SIGNAL CODE SIGNAL TYPE MINIMUM GREEN CYCLE LENGIH

n IGTH LANE)			:: :: ::
HJHJHUH LEFT TURH LANE LENGTH (FT PER LANE)	:1	90	
CKITICAL V/C RATIO	0.0	;; c	::
ИТИТИЧИ БЖЕН БХС КАТ10	0.00	00.0	
CAFACITY ADJUSTED TRAFFIC FOR YELLOW V/C THE LOSS RATIO	1500 0.05 1500 0.01 0.06 0.00	0.00	
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CKITICAL MASIC VOLUME CAPACITY FEE LAME PEE LAME	1500	1500	
CRITICAL VOLUME PER LAME	1 00 T	30	123
TOTAL CKITICAL APPROACH VOLUME VOLUME PER LAME	08 08	800	190
CRITICAL MOVEMENT	orthbound Through outhbound Left Subtotal North-South	stbound Left stbound Through Bublotal Exatilinat	
- 11	Northbound Through Southbound Left Subtotal North-Sc	Eastbound Left Hestbound Through Subtatal East-No.	TOTAL
STATEST	כטגנגאר אטררטא	UALFIED RD. Eastbound Left Hestbound Through Bublotal East-Nost	

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IKACY SPECIFIC PLANS FM FEAK HOUR DACKGROUND FACTOR = 1.00 1788 DASE VOLUMES -- INTERSECTIONS NOT INCLUDED IN RESIDENTIAL PLAN HODEL

INTERSEM'IUM CAPACITY CALCULATION

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HACARTHUR UR. A VALFICO RD.

LANE COMFIGURATION	0	(((((((((((((((((((
LANE	0	
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TOTAL VOLUMES	o >	A ! ! GO 1 MACARTHUR DR
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	5 6	O VALFICO KD.

SIGNAL OFERATION

NORTH/SOUTH EAST/MEST

SIGNAL CODE

SIGNAL TYPE

HITHWA GREEN

O Seconds

CYCLE LENGTH

C:	II st		2
MINIMUM LEFT TURN LANE LENGTH (FT PER LANE)	0 0 0 0 0	00	
1 CRITICAL V/C RATIO	0.07	ć	0.10
HIHIMU GREEH G/C RATIO	00.0	c	LEVEL
Ü	0.06 0.01 0.07	00.00	SERVICE LEVEL
CAFACITY ADJUSTED TRAFFI FOR YELLOW V/C TIME LOSS RATIO	1500 0.04 1500 0.01 0.07	1500	
UASIC CAPACITY PER LANE	1500	1500	
L CRITICAL OACH VOLUME HE PER LANE	10	00	130
7 H H H H H H H H H H H H H H H H H H H	<u> </u>	30	230
Ck171CAL HOVEMENT	rthbound Through uthbound Left Subtotal North-South	stbound Left stbound Through Subletal East-Hest	***************************************
DIRECTION	Northbound Through Southbound Left Subtotal North-Si	Eastbound Left Nestbound Throw Subletal East.	101AL
CKITICAL AF STREET DIRECTION HOVEMENT VOI	HAČARTHUR DR.	VALPICO RD.	HINTHIAN WITH THE TOTAL 230 150 SERVICE LEVEL A SERVICE LEVEL A

IRACY SPECIFIC FLANS FN FCAK HOUR DACKGROUND FACYOR # 1.00 1785 DASCY VOLUMES # INTERSECTIONS NOT INCLUDED IN RESIDENTIAL PLAN HODEL

INTERSECTION CAPACITY CALCULATION

INTERSECTION

CORRAL HOLLON A LINNE RD.

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CONFIGURATION	HINDHUH GREEN G/C RATIO	0.00	00.0	:: :: :: :: :: :: ::
LANE CONFIC	0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.04 0.03 0.06	0.00	
LA	A () 0) 1) 0) 0) 1) 1	1500 1500 1500	1500	
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	NOK1 Sing OCTITICA	11 12 12 13 13 13 13 13 13 13 13 13 13 13 13 13	4 0 t4	nnunnunun 120
ຜ	33.)	33 33 33		168
TOTAL VOLUMES	A0 323 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	rthbound Throush uthbound Left Subtotal North-South	Left Through East-Nest	
i.	A	Northbound Throush Southbound Left Subtotal North-S	Eastbound Westbound Subtate	TUTAL
		כסענער אטררטא	LINNE RD. Eastbound Left Nestbound Through Subtotal East-Nest	

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SERVICE LEVEL

IKACY SFECIFIC PLANS FU PEAK HOUR BACKGROUND FACTOR # 1.00 1285 UASE POLUMES - INTERSECTIONS NOT INCLUDED IN RESIDENTIAL PLAN HODEL

HINERSECTION CAPACITY CALCULATION

UNTERSECTION

TRACY BLVD. A LIMME RD.

LANE CONFIGURATION	
	152 123 143 153 153 153 153 153 153 153 153 153 15
татаг. Valuhes	(
	188

SIBAAL OPERATION
NONTH/SBUTH EAST/WEST
SIBAAL CODE 1/1
SIGNAL TYPE SINGLE Phase Single Pt
HINIHUM GREEN O Seconde

CA PEROACH VOLUME CAFACITY FO AD
Eastbound Left EGATICAL TOTAL APPROACH VOLUME TOTAL APPROACH VOLUME TOTAL APPROACH VOLUME TOTAL AND TANGEN TOTAL TOTA
INTAL CRITICAL FIRECTION HOVEMENT VOLUME PER LANE Northbound Through 100 100 Southbound Left 65 7 Ubbotal North-South
Estbound Left Estbound Left Estbound Left Estbound Left Estbound Left Estbound Left
ERITICAL DIRECTION HOVEMENT ====================================
CRITICAL DIRECTION MOVEMENT SERVE SERVE SERVE Southbound Through Subtotal North-South Eastbound Left Hwithbound Left
CRITICAL DIRECTION HOVEMENT ====================================

TRACY SPECIFIC PLANS FN FEAK HOUR INCKGROUND FACTOR # 1,00 1985 DASIN VOLUMES -- INTERSECTIONS NOT INCLUDED IN RESIDENTIAL PLAN HOUEL

THTERSECTION CAPACITY CALCULATION

INTERSECTION

HACARTHUR DR. A LIMME RD.

-----> LANE CUNFIGURATION :-- : --- : ·-----(----0 -> σ <(===== 40 10 MACARTHUR DR. TOTAL VOLUMES -- 0 **~** ! 2: <u>1</u> n UTHER RO.

SIGNAL UPERATION
HURTH/SOUTH EAST/HESI
SIGNAL CODE 1/1
SIGNAL TYPE Single Phase Single Phase
HINTHUM GREEN 0 Seconds 0 Seconds
UYCLE LENGTH 0 Seconds

HINIMUH LEFT TURN CRITICAL LANE LFNGTH V/C RATIO (FT PER LANE)	0 0.07	0 0	испинительний приняминий приняминий принципринципринципринципринципринципринципринципринципринципринципринципр 1018———————————————————————————————————
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CAFACITY ADJUSTED TRAFFI FOR YELLUN V/C TIME LOSS RATIO	100 100 1500 1500 84 7 1500 1500	1500	***************************************
DASIC CAPACITY FER LANE	1500	1500	***************************************
CRITICAL VOLUNE PER LANE	100	15	unusunuun 172
TOTAL CRITICAL AFFROACH VOLUME PER LAME	100	N W 0 0	284
CKITICAL HOVEHENT	Through Left North-Sout	Eastbound Left Aestbound Through Sublotal Exat-Weat	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
DISECTION	Northbound Through Southbound Left Subtotal North-S	Eastbound Left Hestbound Throu Sublotal Exat:	TOTAL
SIMEET	HACARTHUR DR.	C. PRICE RD.	

CHALT CHECKFILMS

FINE FORE, MACKGROUND FACTOR # 1.07, (INCLUDES 1 (ILL DEVELOPMENT)

CAS FEAR HOUR FAITES FOR MARCHOUSE & LT. INDUSTRIAL

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INTERSECTION	6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	V/C	HORTHI LEFT	BOUND LURU F	RIGHT	SOUTH LEFT	SOUTHROUMD LEFT THRU F	RIGHT	EASTDOUNT LEFT THR	_ = !	RIGHT	HEST LEFT	UMB THRU	RIGHT	BNGD FACTN
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2 tinento Blod	Grant	. 35	26	16	143	11	10	- -	21	304	62	143	141	17	1.07
		0.50 A	173	175	137	94	203	74	71	383	240	147	331	7.7	1.9.
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ו יוחבטון	Long	0.1.	0	147	30	213	102	0	0	0	0	27	0	32	0.
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		. 1%	၁	0	O	С	0	٥	0	575	O	0	1.67	٥	1.0.
3 Merral Hollon	Eleventh	.26	10	30	១០	17	13:	۲)	งา	545	13.51	58	154	7	1.07
	F. Leventh	.31	3.7	41	52	7.5	37	25	67	176	53	33.0	298	142	1.07
	Fleventh		128	301	5.3	183	250	610	7.1	375	115	83	289	210	1.07
	Lievent	0.53 A	150	180	116	99	17.1	วเ	45	3.59	127	44	537	83	1.07
	(327655		C	127	٥	∵	7.0	၁	ີ	0	၁	0	0	O	1.07
	Contro C		43	321	0	၁	428	53	43	0	jr)	0	0	0	1.03
			33	99	0	0	9.0	Ü4	4	٠.	100	0	S	0	1.67
TO COLLOS HOLLOS		0.0%	0	127	ଦ	O	87	0	0	0	o	O	0	0	1.5.
· DYCHROPE			0	0	0	0	C	С	С	0	0	٥	0	0	1.07
			0	171	42	173	227	Ö	0	Ö	0	14	٥	80	1.07
		0.12 A	.~	c	0	73	С	35	36	153	Ф	0	9.4	56	1.07
HacAr			4 7.	ሪዓ	4	ç	7.4	34	ব	17	1.3	13	17	17	1.07
וישרצ	Central		0	180	9	128	106	0	0	Ċ	0	10	0	39	1.07
	Valeico Rd		-0	104	٠,	10	83	10	77	~	9	•	1.5	4.2	1.07
	(: I eventh	0.36 A	٥	Ö	26.3	c	C	c	0	O	O	267	0	0	1.07
	<u></u>		0	O	8.8	0	0	107	0	٥	0	107	٥	150	1.0%
	A 1-205		100	O	376	¢.	C	၁	0	၁	235	396	0	0	1.67
	- ∠		0	0	0	٥	0	Ö	٥	0	0	٥	0	0	1.67
			٥	C	c	၁	ဝ	0	o	٥	٥	0	0	Ċ	1.07
T.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E.E	& BRANT LINE RU.	0.33 A	170	57 74	7.7	21	44	17	53	2.76	83	. 63	256	87	1.5'
EAST ST.			18	147	48	31	72	110	35	253	43	73	259	194	1.07
HALLARTHUR	1-205		71	0	232	0	0	0	0	O	71	225	0	0	1.07
HACAR THUR		9×.	=	c	0	33	၁	233	522	158	0	0	174	30	1.67
HACARIMUR		07.	7.7	0	5.4	0	0	ن	٥	321	35	7 7	287	ی	1.03
		.03	Ŋ	70	11	1.5	7.0	25	_	9	, ⊣	• •	บา	16	1.67
	א טאורוכח אח.		٥	13.4	11	1.1		ు	0	0	0	io.	4.3	⊌ ⊃	1.0.1
-	1, 114141.	, o .	c	4 81	i,	ภ	43	0	0	0	0	7.4	၁	31	1.0.1
35 TRACY PLUE.	LIME	. 12	7.7	99	11	٠.	S S S	7	1.3	9	l'i	13	.77	16	1.07
		. 12	17	96	11	^	75	7	16	32	เก	¥⊃	43	ኔን	1.07
		.07	0	O	o	ις [4]	0	Ŕ	21	0	o	Ö	٥	32	
AN CHRISHAM RD.	A 1-500	0.10 A	0	٥	၁	53	0	0	0	6	0	:	Ö	9.1	1.07
39 SPECIFIC PLAN	& DUHHY	00.	0	0	0	0	0	0	0	Ö	S	٥		0	1.07

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FARTY SPECIFIC PLANS PM PEAK HOUR, DACKGROUND FACTOR # 1.07, (INCLUDES THFILL DEVELOPMENT) ... PEAK MOUR TRIF RATES FOR MAREHOUSE & LT. THOUSTRIAL

HASE VOLUMES - APPROACH AND DEPARTURE

E 8 5 4 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6	SUUTHBUUND LEG TUTAL ENTER LEA BERESSESSESSESSESSESSESSESSESSESSESSESSES
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THARD SPECIFIC PLANS - PREFERRED RESIDENTIAL ALTER TOE PLUS SOZ INM. ALT B PLAK HOUR, DACKGROUND FACTOR = 1.02, CHCLODECS ... FILL DEVELOPMENT)
15% PEAR HOUR TRIP RATES FOR MAREHOUSE & LT. INDUSTRIAL

THE TOTAL HERE BY TURNING MOVEMENT

INTERSECTION		HORT LEFT	THRU	RIGHT	SOUTH THRU	ŧ	RIGHT	EASTBOUND LEFT THR	#	RIGHT	HESTROUND LEFT THR	יי כ	RIGHT
Corral Nollow &	A Grant, Line		22	t I	0	11	•	0	:	0	-	9.6	٥
. incoin Blod	A Grant Line	O	111	0	44	SS	22	45	170	0	၁	228	88
3 Tracy RIvd	& Grant Line	6.5	28	O	٥	62	32	14	211	4 4	0	308	0
' Curral Hollow	A Lowell Ave.	19	20	[-] [-]	0	120	٥	۲۰,	Ω	sa sa	46	20	ی
5 Lincoln Mivd.	! Louell Ave.	18	0	0	33	0	22	45	45	37	i	43	67
		0	7.8	34	၁	158	٥	O	78	0	70	115	0
		٥	0	a	57	၁	0 13	40	794	0	0	393	112
		358	346	0	33	341	24	12	72	164	၁	0.6	67
9 Lincoln filvd.	& Eleventh St.	٥	0	0	37	0	6	4	153	c	0	283	18
		44	110	155	C	228	20	7	100	77	313	235	0
	Eleventh	62	125	13	0	117	\$.5	32	141	41	ز.: ۱۰۰	202	٥
	Cypress [0	614	0	751	514	0	ဂ	Ç	0	0	0	132
		٥	185	၁	59	367	173	95	17	0	O	7	23
" HacArthur Ur.		0	653	٥	0	704	200	100	0	0	0	0	0
15 Corral Hollow	Shulte	33	137	20	639	232	43	18	122	17	25	268	457
		436	0	42	0	0	0	0	486	400	7.1	642	0
マント語 かいりょし たい		45	909	7.7	32	0.0	1.28	52	36.3	CI	145	208	27
		137	208	106	C	335	158	8.5	223	133	222	337	0
		0	470	0	٥	350	400	3.83	47	O	٥	96	0
		48	81	136	0	4.4	24	12	5.6	7.4	212	15.4	ی
21 Tracy Blvd	& Valeico Rd	212	210	348	0	134	11.5	50	145	167	201	324	0
	& Eleventh St.	0	354	833	c	311	0	0	၁	0	412	O	c
	5	0	7.3	281	41	172	0	0	0	0	139	0	50
		0	10	57	0	28	تہ	n	2.0	స	รอ	204	0
	ئ	٥	0	0	103	0	12	25	Ö	c	٥	0	51
	ચ	0	0	40	255	0	0	0	47	cı	20	43	128
27 EAST ST.	& GRANT LINE RD.	0	0	0	0	٥	O	0	3.5	o	0	ນ ຄ	0
	A 11TH ST.	0	0	0	0	0	0	0	33	0	0	120	0
25 HAUGHTHUR DR.	A 1-205	1.53	ยา	838	23	14	0	0	O	70	383	0	ಐ
30 NACARINUR DR.	A GRANT LINE RD.	0	ፀ5ን	0	78	410	9 9	36	0	O	O	0	۲., دء
HACARTHUR	& 11TH STREET	0	547	0	180	S. 140	120	52	0	ی	٥	O	77
L.DRRAL, HUL		33.	99	0	٥	33	43	18	52	17	0	133	c
33 HACARIMUR DR.		20	8.3	0	۵	42	287	398	0	4.3	0	0	٥
		၁	0	83	50	С	0	0	၁	٥	172	0	6.5
		0	0	O	157	0	147	MO MO	132	0	٥	67	80
35 HACARTHUR DR.	LIMME	0	0	0	49	O	4.2	03	205	0	0	105	20
37 CURRAL HOLLOH		0	0	Q	O	0	172	83	0	٥	0	0	0
SE CHRISHAN RD.	A 1-580	0	0	0	257	0	0	c ·	0	c	0	C	125
39 SPECIFIC PLAN	ል ኮሀሐዝፕ	0	32	202	IJ	78	O	n	0	Ö	433	c;	O

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TEFOY SPECIFIC PLANS - PREFERRED RESIDENTIAL ALTERNATIVE PLUS SOZ IND. ALT DES TRIBLE DEVELOPMENT).
THE PEAK HOUR TRIP RATES FOR HAREHOUSE & LT. IHMUSTRIAL.

ANTER POLUBES - APPROACH AND DEPARTURE

		NORTHBOU LEG	UND		SOUTH REDUKE	ฉีนกก		EAST BOURD	เปรเม		HEST BOUND	ūNī	
THYERSECTION	0 0 0 0 0 0 0 0 0 0 0 0 0 0	YER	EAUE	TUTAL.	H. H.	LEAVE	TOTAL.	ENTER	LEAVE	TUTAL.	ENTER	LEAVE	
1 Corral Notion	& Grant Line	107	196	303	11	22	33.	197	= = 8 8 8 8	295 295	ennnnn 283	263	
	Grant	111	55	166	121	245	365	215	250	4 6 5	317	714) to
		117	106	223	5.4	4.5	136	269	425	867	308	211	1 0 10
	Louell	172	224	376	127	7. 5	202	80	1,30	425	96	40	4
		18	37	:J	3 2	112	167	127	ឧភ	215	115	7.8	193
	A Leuell Ave.	110	228	333	158	7.5	234	78	115	193	185	112	227
		0	9	0	25	159	2.50	934	413	1247	512	853	1365
	Lieventh	746	1110	1856	378	427	823	853	512	1365	701	101) ()) ()) ()
	(: leventh	0	9	၁	45	22	67	157	277	434	287	190	477
		309	618	927	238	114	3.0	185	287	47.5	5413	263	811
		(4 (1 (1 (1	195	420	103	157	340	214	450	564	575	159	7.7.7
		415	714	1528	1110	74.5	1856	0	Ċ	٥	132	17.5	321
	Centre	100	367	55.52 57.52	617	308	\$2E	110	200	. 310	36	74	110
	& 3rd/At. Distilo	553	704	1357	1204	753	1557	150	200	300	0	0	0
		220	274	4%4	714	6.14	13520	137	344	201	752	011	1563
		478	471	747	0	0	٥	674	1078	1774	713	538	1251
		177	257	434	250	149	388	447	673	1126	678	46.7	1145
		451	15.70	1141	533	308	1337	4:4	672	1.123	353	323	333
		490	350	6140	750	676	1426	233	496	728	3.6	47	143
7.36.7	\overline{z}	265	300	565	ដាខ	ንን	.181	132	2.5.5	378	40.5	232	638
TI Track Block	A Valeico Rd	0.27	472	1242	300	266	266	308	13.83°	7.60	525	493	1018
	Lieven	1187	7.73	1710	311	354	500	0	٥	0	412	83.3	1245
	しらし	35.4 415.	311	665	213	5.3	308	0	ن	0	159	322	481
Tracy DI.	k 1-205	3.7	6.5	1.25	37	13	19	93	213	303	282	117	.331
	~c ·	0	۵	c	115	26	191	23.5	12	3,7	ئ 1	103	154
THILKHAL		40	50	0 ý:	ないな	128	364	77	413	1.43	193	37.3	200
	A GRANI LIME, KD.	0	0	၁	C	0	0	36	ກອ	121	33	36	121
1951 51.		0	c	0	0	٥	0	52	120	172	1.20	ผ	172
	1-205	1004	467	1471	37	1.3	30	0;	163	233	391	828	1250
		เรา	410	1237	573	627	1300	3.5	หร	121	32	713	110
	& 11TH STREET	267	530	1097	020	769	1526	S	120	172	77	180	257
		66	30	147	7.5	13.4	1.50	3.00	202	20%	133	,3	1.73
	VAL.F.10	103	91	154	325	401	810	447	307	754	0	0	0
		83	172	255	50	4.6	147	0	0	0	271	133	404
	LIMME	0	0	၁	308	163	469	215	214	423	147	271	430
33 HACARTHUR DR.	-	٥	0	O	77	1.03	174	292	147	437	125	0000	383
	A 1-580	0	၁	٥	172	63	255	вз	172	255	0	0	0
		0		0	252	1.25	382	0	O	ی	125	757	382
ST SPECIFIC PUAL	A DUMMY	7.34	316	750	73	: ** : **	110	0	0	0	430	202	047

TRACT SPECIFIC PLANS - PREFERRED RESIDENTIAL ALTER TIVE FLUS 30% IND. ALT BESTEAM HOUR, RACKGROUND FACTOR = 1.0%, CINCLUDES >-/ILL DEVELOPHENT)
15% FEMAR HOUR TRIP RAIES FOR HAREHOUSE & LT. INDUSTRIAL

ТОТАЦ ФОЦИНЕЯ ВУ ТИВИТИЯ НОУЕНЕНТ

INIERSECTION	# # # # # # # # # # # # # # # # # # #		HURTH LEFT	NOUND THRU	RIGHT	SOUTHBOUNE LEFT THRU	EUTHE THRU	RIGHT	EASTBOUND LEFT THE	_ ≘ !	RIGHT	HESTBOUND LEFT THR	_ = !	K11311
Corral Holley	& Brant, Line	· <	12		i !	[21	11	13	427	44	177	198	13
	r an t	0.45 A	22	127	143	45	51	77.7	99	473	. 62	143	369	106
	Grant L		282	203	138	74	317	1,05	13.4	:	283	143	633	1.1
Terra!			67.	112	23	0	186	÷	n	97 13	58	46	ဗ	٥
	Lowell		1 ዓ	148	2.3	40	101	22	45	マ	77	26	48	99
1.1001	Louell Ave		7.8	134	29	•>	467	25.50	26	9.0	44	73	139	16
		0.30 A	0	0	0	22	0	20	40	1336	o	O	537	11.7
	Eleventh		407	377	87	30 00 00	353	E,	17	616	231	57	244	74
	Eleventh		3.6	40	52	111	37	32	20	523	หา	57	565	140
	Eleventh		173	410	248	162	このい	1)[1	5.4	486	192	397	523	209
			201	304	133	55	272	123	3 G	510	158	101	839	₹ 2
Corral Hollow			0	741	O	186	1000	c	0	0	o	o	0	132
	Centre Cour		42	202	0	33	7.74	245	137	13	li?	0	7	23
			33	715	0	٥	803	202	104	၁	27	0	0	٥
15 Corral Hollow	& Shulte		33	254	30	537	318	43	13	122	17	25	268	457
S Sycamore			436	0	42	0	C	၁	0	446	400	71	642	0
TOTAL RUBEL KI	& Schulte		45	231	113	205	318	128	62	363	22	153	208	107
.3 Sentral			137	308	106	72	335	236	127	415	133	222	431	10 10
MacAr	t Schulte	0.43 A	3.4	5.58	4	œ	444	434	170	71.	7.7	13	113	17
Do Tracy Died.	ن		48		142	128	169	24	근	3.6	4 [4	221	194	38
	Val.		216		354	ç	252	125	76	146	113	207	340	41
	 		0		1100	0	311	c	c	0	0	673	0	0
	ວ		0		355	41	172	10.5	0	ی	0	245	0	180
	-		17 17 17		474	0	77 13	;~	n	30	235	453	204	0
	٠.		0		۵	103	0	12	ы ы	o	0	٥	0	. 51
JIII E.RNAL			0	0	40	256	<u>-</u>	÷	0	33	0	20	48	120
EAST	_		170	22	7.7	21	4,	17	58	332	ลถ	5	342	83
EAST ST.			© ∓	146	4.7	31	7.1	117	35	419	42	7.9	410	193
HACARTHUR	1-205		233	٠-،	1063	23	1.4	0	o	٥	140	202	0	ಟ
MACARTHUR	_		0	មនទ	0	110	410	316	174	5.0	٥	٥	174	رن رز
31 MACARTHUR DR.			71	587	,54	1.00	533	120	32.22	3.50	32	43	267	7.1
32 CORRAL HOLLCA	A VALFICO RD.		38	135	10	12	102	77	(-	71	10	0	138	16
33 MAGARTHUR DR.			20	138	10	10	127	287	323	0	47	יי	42	ยา
34 CORRAL HOLLOR			0	48	5.1	n u	42	0	0	0	٥	185	0	130
	LINNE	0.45 A	10	8: S:	1.0	16.5	เร	154	93	1.51	เก	1.2	7.3	56
SS MACARINEM DR.			10	an an	10	٠ م	7.4	4.2	66	241	ษา	เก	147	23
	A 1.500	0.24 A	0	٥	0	32	0	173	104	0	0	0	0	32
THRISHAN	_		0	၁	0	310	0	၁	0	0	٥	0	0	215
32 SPECIFIC PLAN	& DUHHY		0	32.	202	0	78	٥	0	0	٥	4313	ی	0

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TLACY SPECIFIC PLANS - PREFERRED RESIDENTIAL ALTERNATIVE PLUS SOZ IND, ALT B PH FEAK HOUR, DACKGROUND FACTOR = 1.07, (INCLUDES INFILL DEVELOPHENT) -5% PEAK HOUR INTE RATES FOR HARCHDUSE & LT. INDUSTRIAL

TUTAL VULUMES - APPROACH AND DEPARTURE

		NCIRTHROUN LEG	anno		SOUTHEOUND LEG	ūNi		EAST DUUTE	ana		MEST BOUND	מאו	
INTERSECTION		EN1ER BEEFFE	LEAUE	TUTAL	14 14 14 14 14 14 14 14 14 14 14 14 14 1	LEAVE	TOTAL	ENTER	LEAVI.	101 AL	ENTER		TOTAL
Corral Hollow	A Grant Line	150	24.4	414	เก	65	120		221	######################################	410	619	1025
2 Lincoln Blod		275	267	564	141	297	440	.501	4:7	1018	613	870	1286
	& Grant Line	601	750	1351	518	36.6	884	\$98	1005	1570	598	828	1653
	1.000.1	214	292	508	1.77	1.15	312	38	138	224	96	48	1.44
l.incol	& Louell Ave.	195	164	358	183	27.2	475	127	ອ	215	173	134	307
Tracy	& Louell Ave.	377	583	9.5.3	588	278	13.4.4	138	312	430	230	167	397
		0	0	0	31.	159	238	1408	575	1787	678	1427	2105
	Eleventh	871	1205	2076	432	4.56	960	1425	373	2104	373	753	1128
	Eleventh	130	147	277	180	25.0	470	772	\$3.55 \$5.55	1407	702	772	1574
		123	1097	1928	778	71.3	1471	772	7154	1553	1127	21.4	2045
	A Eleventh St.	829	561	1159	474	484	558	774	1163	1937	1024	702	1724
	Cypress	741	1000	1741	1195	873	20.57	0	0	0	132	194	328
	Centre C	547	651	1346	1099	671	1770	157	25.53	452	36	14	110
		752	827	1581	1004	823	1827	1, 5.1	577	356	0	٥	0
		347	360	707	1000	741	1741	157	344	501	752	611	1563
		478	471	747	0	0	0	898	1678	1.774	713	538	1251
-		308	493	807	651	400	1051	447	529	1124	771	681	1452
	n	451	670	1141	643	370	1033	675	804	1477	708	573	1301
HACArt.	ນ	296	463	1064	888	597	1651	300	581	381	142	110	252
Trans	Central	450	414	G S 4	321	31.0	531.	132	2.5.5	378	453	366	817
11 Tracy Blod	Valr	283	587	1474	401	434	:: ::	337	683	1020	នមន	20%	107
22 1-205	Eleventh	1454	9.30	2444	311	354	. 555	0	0	o	878	1100	1777
	Gran	439	417	928	318	17 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	572	o	106	106	425	407	032
	k 1-205	687	716	1385	37	13	50	326	446	778	657	514	1.171
INTERNAL	4	0	0	0	115	27	171	24 125	17	37	51	103	154
INTE		40	20	80	25.5	128	384	7.7	46	145	1.96	393	583
	A GRANT LINE RD.	565	194	493	81	198	278	478	323	1001	493	430	523
EAST ST.		213	191	404	217	374	593	496	553	1647	689	477	1188
HACARTHUR		1306	761	2087	37	13	C	140	233	373	615	1091	1706
HACARTHUR	A GRANT 1.1NE RD.	857	410	1267	មុខភ	1.185	2023	432	472	724	22.5	2.68	474
		705	605	1307	930	696	1526	404	458	862	387	564	951
		183	130	313	1.50	170	330	1.08	222	330	154	23	257
	VALITE	178	161	375	424	571	29%	447	349	176	52	20	72
		133	227	364	1.27	1.713	303	0	0	0	315	17.5	471
SS TRACT BLUD.	LINNE	105	75	100	370	274	655	259	257	516	201	337	538
		105	84	10%	179	20%	388	345	206	551	177	307	434
	1-58	0	0	0	225	136	361	104	193	297	32	32	64
B CHRISHAN		С	0	o	310	215	525	0	O	0	215	310	525
37 SPECIFIC PLAN	& DUHIIY	234	515	750	73	35	110	٥	0	C	438	202	047

*...

TRACY SPECIFIC PLANS - PREFERRED RESIDENTIAL ALIF VIIVE PLUS 70% IND. ALT. B PT PLAN HOUR, DACKGROUND FACTOR = 1.07) CHICLDHES LIFTLE DEVELOPMENTY 15% PEAN HOUR TRIP RATES FOR WAREHOUSE & LT. DIDUSTRIAL

 $\lambda/\mu \nu \epsilon p$ Volumes by тивнинь номенент

INTERSECTION .	NORT LEFT	NORTH	THRU	RIGHT	<u></u>	DUND		31 D FT	– ,	RIGHT	HEST LEFT	ROUMD THRU	RIGHT
1 Corred Hollow	A Brant Ling	0	 N N	101	0	11		## 0 ## 0 ## 0	197		======================================	******	C
Vincaln plyd		0	111	c	44	33	22	45	186	0	0	267	818
		13.7		С	0	63	35	1.6	22.5	44	0	343	0
		75	0.5	233		155	13	เก	r:	รง ย	46	20	0
	& Louvil Ave.	อา	0	0	33	0	22	3,5	45	37	0	48	67
		0	e.	34		166	0	0	73	0	70	115	0
		0	C	0	. 57	0	20	40	794	٥	0	393	112
		320	431	0		407	24	11	72	769	ە .	0.6	67
	& Eleventh St.	0	0	0		0	9	4	173	0	0	317	18
		41	113	155	0	235	Ð	4	123	7.7	313	283	0
		250	1.15	រន	0	1.1.9	55	33	162	41	37	350	0
		O	:4.9	С	186	782	0	0	0	0	0	0	132
		0	167	0	59	374	193	95	2.5	0	0	7	2.5
		Э	880	0	0	916	200	100	0	•	0	0	0
15 Correl Nollon		4.5	157	်	666	258	60	2.5	170	23	25	375	514
	97 1048 X	547	C	42	0	0	0	0	518	453	7.1	694	0
		57	Ş	72	M M	17.4	132	63	363	[시 [시	1.45	554	27
		137	209	116	0	337	198	9 B	244	133	246	385	0
		0	613.5	0	0	470	472	217	47	0	0	9.6	0
プロロレー		43	53	136	0	99	24	12	9.5	24	212	194	0
		757	21.0	487	0	1.84	117	57	203	150	281	453	٥
		0	303	033	0	300	0	0	0	0	412	0	0
		0	1.02	281	41	241	0	0	0	٥	139	0	20
	& 1-205	C	14	50	0	39	13	มา	118	0	58	270	0
INTERNAL	~5 -	:D	0	٥	1.03	0	. 12	หห	0	0	0	0	ខ្ម
	1	c	0	40	256	0	0	0	6.6	0	20	48	128
	A GRANT LINE RD.	0	0	0	0	0	0	0	51	٥	0	120	O
		0 !	01	0	0	0	0	0	72	0		168	0
		51.213	` '	1.171	32	1.5	0	0	0	9.8	538	0	1.2
		0	1202	0	110	57.4	120	51	0	0	0	0	45
		0	754	0	252	742	138	72	0	٥	0	0	108
		40		0	0	47	60	55	9.1	23	0	186	0
		5 5	11.6		0	58	402	557	0	68	0	0	0
	3	0	С	117	70	0	0	0	0	0	240	0	139
SO TERCY BLOD.	LTAPLE	0	0	0	223	٥	208	117	185	0	0	63	112
		0	0	٥	a,	0	58	116	ころご	0	0	147	28
		co	٥	٥		0	240		0	0	0	0	0
	A 1-500	0	0	0	360	0	0	0	0	0	0	0	175
39 SPECIFIC PLAN	t, nunhy	0	٠ ئ	283	0	110	0	0	0	0	613	0	0

36.5 ACCHARGES 4.2 TRACS 4.2 37.39.144

FOLCHUM FLAND FRUTERKED RESTDENTAL ALTERNATIVE PLUS 20% JHU, ALT. B FM PEAK HOUR, MACKGROUND FACTOR = 1.07, CHOLODES INFILL DEVELOPHENT) F. PEAK HOUR TRIP RATES FOR MAREHOUSE & LT. INDUSTRIAL.

аннев - антвиасн дерактике

		NORTHBOU LEG	นกกา		5.00 (1) 2(0) (1) I	delac		EAST BOUND FEB	ואים		HESTEGUND	HID.	
INTERSECTION		ENTER	LEAVE	TOTAL	t:	LEAVE	TUIAL	TER		TUTAL.	ENTER		T01AL
Corral Hallan	A Urant Line	123	233	358	; ! !	ı	33	197	84.	275	K H E	u	1
	Grant	111	ಚಬ	1.55	121	245	366	231	235	520	355	230	588
	& Grant Line	120	113	233	104	47	757	386		753	343	226	569
	Lenell	187	255	446	1.513	20	258	38	142	230	9.6	45	144
Stintuln Rivd.	A Louett Ave.	1.8	37	3. 2.	เก เก	112	3.67	127	ប្រធ	215	115	78	173
		112	233	348	1.5.4	7. 2.	244	73	115	193	185	:12	297
		0	0	0	32	15.7	230	523	413	1247	512	# KUH	1365
		1329	11713	2007	454	210	97.5	853	512	1355	153	105	25.2
	A Eleventh St.	0	0	0	45	7.7	6.3	1.7.7	323	202	335	210	343
		31.2	625	937	243	117	.\$60	210	335	24.5	594	284	13 B O
		225	18.7	422	185	157	342	235	493	733	387	180	567
12 Correl Hellen		577	582	1579	1178	823	2007	٥	0	٥	133	19.5	328
	ပ	187	374	561	525	311	25.3	110	200	310	36	7.4	110
		0818	916	1795	1113	780	2098	100	700	300	0	0	0
	A Shulte	253	304	557	786	169	1675	219	481	700	914	908	1800
		583	524	1113	0	٥	٥	771	1241	2212	7.65	550	1325
かつしつ かっかした だっ		179	261	440	258	152	410	49H	731	1199	726	487	1213
		4.52	718	11713	525	307	10 A 10 11 A 10	475	720	11.95	631	340	971
		989	490	1176	296	503	1365	264	588	832	96	47	143
17.2に9		797	304	571	92	95	167	132	26.5	378	40.5	232	634
		466	615	1609	303	247	いこう	410	84.9	1279	734	069	1424
22 1-205		1214	792	2008	380	383	1.53	Ö	٥	Ċ,	412	833	1245
23 1-208	ت	583	300	7.63	282	122	404	0	c	o	159	322	481
	k 1-205	43	77	1.40	สร	1.7	7.1.	123	203	404	328	147	475
	- €	၁	0	0	115	2.6	191	25	13	37	51	103	154
		40	70	99	255	1.28	384	47	413	1.45	193	393	287
		C	0	٥	0	0	છ	51	120	171	120	51	171
LAST ST.		0	o	၁	٥	0	٥	, 1 , 1	1.53	240	1.58	7.5	240
	1-205	1408	653	2005		19	20	9.5	229	326	540	1203	1751
MAICARTHUR		1202	574	1773	¥08	1273	27.62	51	110	171	4.5	110	155
	& 111H SIREET	154	742	1536	1162	3/4	2136	[:	163	240	108	252	360
		137	70	202	107	115	223	140	292	.432	186	77	277
		144	124	2:0	460	673	1133	529	430	1055	0	0	.0
_	7:55	111	240	355	70	139	202	0	ی		377	107	556
SS TRACY BLOD.		С	0	O	427	328	658	302	657	601	205	403	613
		Ö	0	0	736	1,44	コソじ	4013	50 N	513	175	3.50	500
		С	0	0	240	117	353	117	045	357	٥	0	0
	& 1-5go	0	0	0	340	175	25.0	ی	O	٥	175	360	2.23
SPECIFIC PLAN	ላ ቦሀዘዘኘ	328	723	1051	110	45	155	C	٥	٥	613	283	978

MASSUCIATO: 1840S 4.2 8/18/87 2137:44

TOTAL VOLUMES BY TURNTHS HOVEMENT

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	& Grant Line	0.17 A		i 					H H H H H H H H H H H H H H H H H H H				11 12 12 14 14	n
" Lincoln Blyd	Grant	4	1 5°	107	7.4.6	0 4	1,	11	1.5	4.7.7	4	238	173	1.3
3 Tracy Hivd		0.53	5.5	200	7 -	7 4	٠ ٥ ٦	Y: 7	•0 ·	483	52	143	408	108
* Cornal Motton) ÷) : }	1 7) : 1	r (0 7 7	an T	G.S	613	283	148	573	7.7
5 Lincoln Blvd.	11404			7 7 7) () (<u> </u>	44.5	13	นา	25	s B	46	50	بي
COLUMN MINISTER	2 2 3 3		ກ ເ	٦ : 2 : 3 :	7.7	\$0	101	건	**	45	37	25.5	ië •F	;; ;~
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			467	44.0	37	<u>ဗ</u>	423	7.2	17	\$1.5	1.54	, . , .		
Control Mary.	コンじゅつショコ	. 4.	d B	40	32	111	37	32	30	2.4.5) M		7 -	7 3
	i. I eventh	,	1:13	¥; 	248	162	315	88	9.4	202	0.0	, 07		7) () () ()
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	2 2 2 4 2 5	. 4.	0	470	0	196	1048	Ó	0	2		4 0	3	: :
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			45	233	M	100	CCL	7	þ	מין מין מין	200	/1	574	0
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17 MacArthur			7 7	2 : 1	٥ ‹	4 (700	23.5	127	. 438	133	246	475	Š
		1 2	ר כ זי	7 7	Ŧ ;	න :	1. E.	S)	221	98	77	12	113	17
P L S L L			1 C	707	ि । ज	128	173	4	=======================================	95	4.5	155	194	38
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			<u>:</u> د	707	365	41	241	10%	0	0	ی	245	· 0	130
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FAST GT	TWAST - TWAST) !	<u>ت</u> :	40	256	0	ٯ	0	63	٥	20	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
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HALLA	1 1.055	٠. : در :	D :	-) : T	<u> </u>	31	ĸ	117	33	439	7.5	: 2	7.74	
TO MATARIAN TO	11200		578	/	1403	32	18	۵	ప	0	158	755	, io) <u>-</u>
HALABTHIR			ا	12021	۰	142	574	555	289	150	ō	3	1.74	: v'
	_		/1	7.7.4	·> 4	252	7.42	1.613	72	320	3.5	 •‡		
			51	133	10	17	116	63	7.5	6.5	7,0			
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		4 (-)	10	S	10	7.5	5.6	\$ ⁷	1.43	· · · · · · · · · · · · · · · · · · ·) b	ય ક	7.1.7	ул (Ч)
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SY SPECIFIC PLAN	& DUMMY	0.63 11	ت	t: 7	M. W. C.			י כ	> (، د	>	0	n	.;
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DNS ASSOCIATES TRACS 4.2 3/18/87 7:39:44

TECT CATECUTIC PLENS - PREPENDED FLAGUENTIAL ALTERNATIVE PLUS 76% 3MB. ALT. B FY PEAR HOUR, BACKGROUND FACTOR = 1.67, CHICLUDES THFILL DEVELOPHENT: SX PEAR HOUR TRIP RATES FOR WANCHOUSE & LT. THOUSTRIAL

TILLAL VOLUMES - AFFROACH AND DEPARTURE

		NCIRTHEOUND FIR	OUIND		THOUSELLINGS	บเมหม		Lestabl	2ME		MEST SEA	<u> </u>	
		R 1	LEAVE	TUTAL	THER	LEAVE:	TOTAL.	LLG UHTER	3615.3	TOTAL.	LEG	3093	137.117
		166	102	######################################	6 5 6 5 6 6 6 6 6 6	11 11 11 11 11 11 11 11 11 11 11 11 11							
TALL GLODELY T		295	28.9	475		7 (0)	071	200 400	F:::	175	44%	635	1034
		407	757	1361	4 & & & & & & & & & & & & & & & & & & &	177	4 C	617	453	2073	733	685	1343
s Lorrai Hollon		22.9	327	() () ()	5 4 7 F	1/0	7.62	111.6	1643	2025	300	843	1743
	& Louell Ave.	195	16.4) \$\frac{1}{2} \text{\$\frac{1}{2}\$}	2 2 2	V (200	:: :::::::::::::::::::::::::::::::::::	N	230	9%	40	1.44
	& Louell Ave.	37.9	44.5		100	7 67	7	127	613	215	5:3	134	307
	& Eleventh St.		,) (2	80.5 40.5	1.68	313	0814	230	1.63	398
		4.0	+127			5 i	0.5.c	1408	573	1297	4.7 C	1427	2016
		13.0	777	/ H H H	000	T : : : :	1651	1.423	476	23.04	\$0.00 (1)	55.7	1 1 2 2
	Eleventh	13.14	11.74	4070	0000	0	4 . ()	222	683	1475	330	0.13	1643
	& Eleventh St.	630	. K	1201	(B)	٠٢\ • • • • • • • • • • • • • • • • • • •	1501	793	632	1828	1177	737	2114
	& Cypress In.	624	1658	13.2.2	0 4 7 7	7 2 4	750		12113	2005	1.072	723	1775
S Tracy Livel.		いない	600	17.00	F 40 + +	???	0777	ن	0	S	132	1.76	328
	& 3rd/Ht. Diablo	975	1041	0000	0011	· · · · · · · · · · · · · · · · · · ·	1,7,7	7. 73 74	17.68 17.68 18.68	45.22	23	7.4	110
	Shulte	380	70X	010	3 T T T	0007	2286	171	7. 10) 24	999	0	0	0
16 Sycarore	& Shulte	200) () () () () () () () () () () t	8961	4 % 5	1892	217	401	200	914	988	1800
	A Schulte		r ()	21.1	0 6	0 :	ల	771	1241	2212	7.55	0.80	1305
16 Central		7.7	1 - 1		\\ \\	NO7	1062	(1) (1) (1)	731	1199	6.10	105	000
7. Hacarthur	A Schulte	4 7 2 7 7 7	617	1174	543	351	1033	39.5	3 3 3 3	1545	780	4 44 2 75 4 44	201
20 Tracs Bled.		· · ·	n :	1400	1070	11.67	2020	331	17.77	584	. 9 -		r : : : : : : : : : : : : : : : : : : :
	A Uplaine Col	٠ ١٠	415	670	323	312	537	132		305	1 F 5 4	077	भ द ति - भ द
2011 - 110		7 7 7 7	017	1621	404	430	039	432	00%	15.59	767	9 6	
		0014	7001	25.42	380	302	763	٥	c	0	67.4		0000
24 11 202 101.	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100	4 0 0	47.	90%	292	677	O	106	1 ت	1.1.7	407	()) T
PS INTERNAL 1		^ c	171	1400	22	1.7	71	325	07.00	878	7.75	671	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	: 40) () ()	o c	٥,	11.5	~? ~~	173	R	21	33		10.1) (1) (1) (1)
	A GRANT LINE RD.	0 0	, 4 , 4 , 4 , 4	0 h	·9 ·	۳ : د :	700	177	40	145	19.5	193	1000
	117H ST.	100		/; < > C		1.73	5.1.2	863	26.4	400t	& 	7.44	973
		1208	1 7 4	F 10 7 C	7.1.7	3/4	· · ·	51.5	.01	1.1.17	737	513	1954
	A SEANT LINE RU.	1200	47.7	1.5.7	T 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	;-: t	9:	163	:2:	454	772	1435	2002
		30.6	: :	2	1001	٠ ١	in Na Pi	447	527	474	23.3	300	92.50
32 CURRAL HOLLON		100	, i, i	2	, e	474	2136	70.0	506	930	418	53.5	1024
33 HAI ARTHUR DR.	A VO: 1100 EU	1 0		7 . 7	7.7	203	39.5	143	305	403	217	113	7.7.7.
34 CURRAL HOLLON		10.1	0 6 4 6 4 7	D 0	() () ()	7.6.	1418	59	4.7.1	1097	S. C.	20	
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~	LIMME) i) <	007	10:0 10:0 10:0 10:0 10:0 10:0 10:0 10:0	340	041	345	3.4%	202	652	4 1 4	2.52
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		; 4 1	, 1	1001	110	4 11	5	C	0	၁	613	263	960

TRACY SPECIFIC PLAMS - PREFENREN RESTDENTIAL ALTERM TVE PLUS 100% IND. ALT. B FM FFAK HOUR, BACKGROUND FACTOR = 1.0% (INCLUDES , TLL DEVELOPMENT) 15% FFAK HOUR TRIP RATES FOR HAREHOUSE & LT. INDUSTRIAL

липер общинея ву тивнина наченент

																					• ·				•	·•	•												
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EST DO EFT	281	0	0	46	0	20	0	0		313		0	o	0	25	7	145	282	0	212	402	412	139	58	0	20	0	0	766	0	0	0		343	~	Q	0	0	8 3
RIGHT		0	44	г В	37	0	0	769	0	17	41	0	0		33	533	22	133	0	N	214	0	0	0	0	0	0		140	0	0	33	77	0	0	0	0	0	0
D RU	11 🖎	210	4	23	43	78	794	72	204	160	193	0	17	0	243	851 1	414	275	47	9.6	270	0	0	160	0	47	^	103	0	0		129	0		265	₩.	٥	0	0
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IGACY SPECIFIC PLANS - PREFERRED RESIDENTIAL ALTERNATIVE PLUS 100% IND. ALT. B FH PEAK HOUR, DACKGROUND FACTOR = 1.07, (INCLUDES INFILL BEVELOPHENT) 15% PEAK HOUR, TRIF RATES FOR MAKEHDUSE & LT. INDUSTRIAL

ADDED VOLÚMES - APPROACH AND DEPARTURE

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TRACY SPECIFIC PLANS - PREFERRED RESIDENTIAL ALTERNATIVE PLUS 100% IND. ALT. B FA FEAK HOUR, BACKGROUND FACTOR = 1.0% (INCLUDES INFILL DEVELOPHENT) 15% PEÁK HOUR TRIP RATES FOR HAREHOUSE & LT. INDUSTRIAL

TOTAL VOLUMES BY TURNING HOVEHENT

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TUTAL VOLUHES - APPROACH AND DEPARTURE

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