

# **SEWER SYSTEM MANAGEMENT PLAN**

## **Volume I**

FOR

SAN BERNARDINO COUNTY  
COUNTY SERVICE AREA 64  
SPRING VALLEY LAKE

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## LIST OF ACRONYMS

|          |                                                        |
|----------|--------------------------------------------------------|
| BMP      | Best Management Practice                               |
| CCTV     | Closed-Circuit Television                              |
| CFR      | Code of Federal Regulations                            |
| CIP      | Capital Improvement Plan or Program and/or Project     |
| CIWQS    | California Integrated Water Quality System             |
| CMMIS    | Computerized Maintenance Management Information System |
| CWEA     | California Water Environment Association               |
| CSA      | County Service Area                                    |
| Event ID | A unique Identifier Assigned by CIWQS Database         |
| FOG      | Fats, Oils, and Grease                                 |

|               |                                                                                              |
|---------------|----------------------------------------------------------------------------------------------|
| FM            | Force Main [Pressure Main]                                                                   |
| FROG          | Roots, Fats, Oils, and Grease                                                                |
| FSE           | Food Service Establishments                                                                  |
| General Order | SWRCB Order No. 2022-0103-DWQ adopted December, 2022                                         |
| GIS           | Geographical Information System                                                              |
| I/I           | Inflow / Infiltration                                                                        |
| LRO           | Legally Responsible Official                                                                 |
| MGD           | million gallons per day                                                                      |
| MRP           | Monitoring and Reporting Program 2013-0058EXEC effective 9/09/13                             |
| O&M           | Operation and Maintenance                                                                    |
| OERP          | Overflow Emergency Response Plan                                                             |
| RWQCB         | Regional Water Quality Control Board                                                         |
| SCADA         | Supervisory Control and Data Acquisition                                                     |
| SSMP          | Sewer System Management Plan                                                                 |
| SSO           | Sanitary Sewer Overflow                                                                      |
| SWRCB         | State Water Resources Control Board                                                          |
| TOC           | Table of Contents                                                                            |
| WDID          | Waste Discharge Identification Number                                                        |
| WDR           | Waste Discharge Requirements also referred to as General Waste Discharge Requirements (GWDR) |
| WWTP          | Wastewater Treatment Plant                                                                   |

## TERMS

Best Management Practices: The Best Management Practices [BMP] is a developed industry standard related to the operation and maintenance of grease interceptors/grease-trap and housekeeping operations associated with food preparation and cleanup at restaurants and other food service facilities. BMPs are not just guidelines for FSEs; they are enforceable when a FSE fails to implement one or more of the listed BMPs.

Blockage: Partially or fully blocked wastewater, preventing flow through a sewer pipeline. The blockage can be caused by debris in the sewer, grease buildup, root intrusion, or a partial or full collapse of the pipeline. If not caught in time, the blockage may cause an overflow. This is also called a stoppage.

California Water Environment Association (CWEA): CWEA is an association of 8,000-plus professionals in the wastewater industry. CWEA is committed to keeping California's water clean. CWEA trains and certifies wastewater professionals, disseminates technical information, and promotes sound policies to benefit society through protection and enhancement of the water environment. CWEA offers services at the state level and locally through 17 geographical local sections. Through their on-line bookstore, CWEA offers technical references for sewer system operation and maintenance. Website: <http://www.cwea.org/>.

Computerized Maintenance Management System (CMMS): is also known as Enterprise Asset Management and Computerized Maintenance Management Information System (CMMIS). A CMMS software package maintains a computer database of information about an organization's maintenance operations, i.e. CMMIS - computerized maintenance management information system. This information is intended to help maintenance workers do their jobs more effectively and to help management make informed decisions. CMMS data may also be used to verify regulatory compliance.

Collection System: Generic term for any system of pipes or sewer lines used to convey wastewater to a treatment facility.

Drainage Channel: For the purposes of complying with the Statewide Sanitary Sewer Order, (1) a man-made canal used to transport storm water as part of a municipal separate storm sewer system, or (2) an intermittent or perennial stream bed.

Enrollee: The legal public entity that owns a sanitary sewer system, as defined by the WDR, which has submitted a complete and approved application for coverage under the WDR. This is also called a sewer system agency or wastewater collection system agency.

Event ID: A unique identifier assigned by the SSO database to each reported SSO or private lateral sewage discharge.

Fats, Oils and Grease (FOG): Fats, oils, and grease that are discharged into the sanitary sewer collection system by Food Service Establishments (FSE), homes, apartments and other sources. FOG is a major cause of blockages leading to increased maintenance and sometimes spills. Grease can harden and cause floating "turtles" inside manholes and wet-wells that are hard to break down. These can easily clog pipe openings and cause serious problems if they make their way through the system.

Fats, Roots, Oils and Grease (FROG): Fats, oils, and grease that are discharged into the sanitary sewer collection system by FSEs attach to downstream roots that are protruding from lateral connections, pipe joints, manholes, etc., creating a more rock-solid blockage due to the combination of FOG and Roots that will lead to increased maintenance and sometimes spills.

Geographical Information System (GIS): A database linked with mapping, which includes various layers of information used by government officials. Examples of information found on a GIS can include a sewer map; sewer features such as pipe location, diameter, material, condition, last date cleaned or repaired. The GIS also typically contains base information such as streets and parcels.

Infiltration: The entry of groundwater into a sewer system, including service connections. Infiltration occurs through defects in the piping network including defective or cracked pipes, pipe joints, and through defects in manhole walls and joints.

Inflow: Stormwater runoff entry into a sewer system from such sources as roof leaders, cellars, yard and area drains, foundation drains, cooling water discharges, drains from springs and swampy areas, around manhole covers that are not properly sealed to the top of manholes or through holes in the covers, and cross connections from storm sewer systems and catch basins. Inflow differs from infiltration in that it is a direct discharge into the sewer rather than seepage of groundwater into the sewer.

Lateral: The portion of sewer that connects the waste plumbing from a home or business with the sewer main pipeline in the street. Some sewer system agencies own or maintain a portion of the lateral.

- a) Upper Lateral: Portion of lateral from building to property line (or easement line), usually privately owned and maintained.
- b) Lower Lateral: Portion of lateral from property line (or easement line) to sewer mainline in the street or easement. This portion of the lateral is sometimes privately owned and maintained and sometimes publicly owned

and maintained.

Legally Responsible Official: The person with authority to ensure compliance, authority over management of the entire sewer system, and authorized to make managerial decisions governing operations, capital improvements, and ensuring long-term environmental compliance.

Miles of Gravity Sewer: Amount of gravity sewer lines/pipes in an Enrollee's sanitary sewer system, expressed in miles.

Miles of Laterals: Amount of laterals in an Enrollee's sanitary sewer system, which the Enrollee is responsible for maintaining, expressed in miles.

Miles of Pressure Sewer: Amount of pressurized sewer lines/pipes in an Enrollee's sanitary sewer system, expressed in miles, also referred to as Force Mains.

Monitoring and Reporting Program: The Monitoring and Reporting Program established in the WDR that establishes monitoring, record keeping, reporting and public notification requirements for the WDR.

Overflow Emergency Response Plan: Identifies measures to protect public health and the environment. A plan must include the following: notification procedure, appropriate response plan, regulatory notification procedures, employee training plan, procedures to address emergency operations, a program that ensures all reasonable steps are taken to contain and prevent discharges.

Percent Reached Surface Water: Volume of sewage discharged from a sanitary sewer system or private lateral or collection system that reached surface water divided by the total volume of sewage discharged.

Percent Recovered: Volume of sewage discharged that was captured and returned to the sanitary sewer system or private lateral or collection system divided by the total volume of sewage discharged.

Private Lateral: That portion of the lateral that is owned and maintained by the private property owner that it serves. Based on an individual agency's ordinance, this may just be the upper lateral or can include the lower lateral.

Private Lateral Sewage Discharge (PLSD): Sewage discharges that are caused by blockages or other problems within privately owned laterals or collection systems which are tributary to the reporting Enrollee's sanitary sewer system. Reports of these events are submitted by Enrollees on a voluntary basis but are not their responsibility. This type of sewage discharge is the responsibility of the private lateral or collection system owner.

Rehabilitation and Replacement Plan (also referred to as a Capital Improvement Plan): Identifies and prioritizes system deficiencies and implements short-term and long-term rehabilitation actions to address each deficiency.

Sanitary Sewer Overflow (SSO): The Statewide WDR defines an SSO as any overflow, spill, release, discharge or diversion of untreated or partially treated wastewater from a sanitary sewer system, including overflows or releases that reach waters of the United States, overflows or releases that *do not* reach water of the United States, and backups into buildings and/or private property caused by conditions within the publicly owned portion of the sewer system.

Sanitary Sewer Overflow Categories:

**Category 1:** A spill of any volume of sewage from or caused by a sanitary sewer system regulated under the General Order that results in discharge to: a surface water, including a surface water body that contains no flow or volume of water; or a drainage conveyance system that discharges to surface waters when the sewage is not fully captured and returned to the sanitary sewer system or disposed of properly.

**Category 2:** A spill of 1,000 gallons or greater, from or caused by a sanitary sewer system regulated under the General Order that does not discharge to a surface water.

**Category 3:** A spill of equal to or greater than 50 gallons and less than 1,000 gallons, from or caused by a sanitary sewer system regulated under the General Order that does not discharge to a surface water.

**Category 4:** A spill of less than 50 gallons, from or caused by a sanitary sewer system regulated under the General Order that does not discharge to a surface water.

Sanitary Sewer System: Any system of gravity sewer pipelines, pump stations, force mains, or other facilities upstream of the headwork's of a wastewater treatment plant. The sanitary sewer system is used to collect and convey wastewater to the publicly owned treatment facility. Temporary storage and conveyance facilities are considered to be part of the sanitary sewer system and discharges into these temporary storage facilities are not to be considered spills.

Satellite Collection System: The portion, if any, of a sanitary sewer system owned or operated by a different public agency than the agency that owns and operates the

wastewater treatment facility to which the sanitary sewer system is tributary.

Sewage Lift Station: Lift stations are facilities designed to move raw sewage from a lower elevation to a higher elevation through pipes or pumps. Key elements of sewer lift stations include a receiving well (wet-well), often equipped with a bar screen or grinding pump to remove coarse materials; pumps and piping with associated valves; motors; a power supply system; an equipment control and alarm system; and an odor control system and ventilation system. The lift stations are equipped with redundant alarms and backup equipment to eliminate the potential for failures of mechanical and/or electrical equipment and appurtenances. Prime use of a lift station is inside a WWTP (screw pumps) or when two different elevations of a collection system join and sewage needs to be lifted and deposited back into a gravity pipe line simply feet away.

Sewer Pipe Blockage Control Program: Program that includes: public education program; plan and schedule for the disposal of FOG; legal authority to prohibit FOG related discharges; requirement to install grease removal devices; authority to inspect grease producing facilities; identification of sanitary sewer system sections subject to FOG blockages and the establishment of a cleaning schedule for each section; development and implementation of source control measures for all sources of FOG.

Sewer System Management Plan (SSMP): A series of written site specific programs that address how a collection system owner/operator conducts their daily business as is outlined in the WDR. Each SSMP is unique for an individual discharger. The plan includes provisions to provide proper and efficient management, operation, and maintenance of sanitary sewer systems, while taking into consideration risk management and cost benefit analysis. The plan must also contain a spill response plan. Certification is offered by technically qualified and experienced persons and provides a useful cost effective means for ensuring that SSMPs are developed and implemented appropriately.

Spill: Generic term referring to any sewage discharge (i.e., spill or private lateral sewage discharge) resulting from a failure in a sanitary sewer system or privately owned lateral or collection system.

SSO Database: Online reporting system developed, hosted, and maintained by the State Water Resources Control Board for compliance with the Monitoring and Reporting Program contained in Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (WQO No. 2022-0103-DWQ).

Storm Drainpipe: For the purposes of complying with the Statewide Sanitary Sewer Order, any pipe that is part of a municipal separate storm sewer system used for collecting or conveying storm water.



System Evaluation and Capacity Assurance Plan: A required component of an agency's SSMP and is an important part of any agency's overall Capital Improvement Plan that provides hydraulic capacity of key sanitary sewer system elements for dry weather peak flow conditions, as well as the appropriate design storm or wet weather event.

Total Volume Reached Surface Water: Amount of sewage discharged from a sanitary sewer system or private lateral or collection system that reaches a surface water.

Total Volume Recovered: Amount of sewage discharged that was captured and returned to the sanitary sewer system or private lateral or collection system.

WDID: Waste Discharge Identification number which is a unique identifier assigned by the State Water Board to each Enrollee for regulatory record and data management purposes.

WDR – Waste Discharge Requirements: A WDR is an authorization to discharge waste with certain conditions, which can be issued on an individual basis or to a group of dischargers. The Statewide General WDR for Sanitary Sewer Systems was adopted by the SWCRB and will be implemented by the Regional Water Boards and SWRCB.

## SECTION 1 – SEWER SYSTEM MANAGEMENT GOAL AND INTRODUCTION

### INTRODUCTION

This Goal and Introduction section provides background information on the goals of the Sewer System Management Plan (SSMP), purpose and organization of the SSMP, and provides a brief overview of the San Bernardino County (County) Special Districts Department (Department) County Service Area 64's (CSA 64) sanitary sewer system located in the community of Spring Valley Lake, CA.

### SSMP REQUIREMENT BACKGROUND

The San Bernardino County, Special Districts Department (Department), County Service Area 64 (CSA 64) is mandated to comply with the State Water Resources Control Board (SWRCB) Order No. 2022-0103-DWQ (General Order) **see Appendix I – SSMP Vol. II**. The General Order serves as statewide waste discharge requirements and supersedes the previous SWRCB Order No. 2006-0003-DWQ and amendments thereafter. The SWRCB and the local Regional Water Quality Control Boards (RWQCB) oversee the water quality of the waters in the State within their respective jurisdictions. CSA 64 lies within a portion of the State which is under the jurisdiction of the Lahontan Regional Board. For the General Order, a sanitary sewer system includes, but is not limited to, a combination of pipelines, valves, lift stations, manholes, siphons, wet wells, diversion structures, and/or other auxiliary pertinent infrastructure upstream of a wastewater treatment plant (WWTP) headworks. A sanitary sewer system includes:

- Laterals owned and/or operated by the Enrollee.
- Satellite sewer systems.
- Temporary conveyance and storage facilities, including but not limited to temporary piping, vaults, construction trenches, wet wells, impoundments, tanks, and diversion structures.

On December 6, 2022, the SWRCB adopted the Statewide Waste Discharge Requirements (WDR), applicable to all publicly owned sanitary sewer systems in California with more than one mile of sewer pipeline. The goal of this requirement is to have a consistent statewide approach for reducing Sanitary Sewer Overflows (SSOs) or sewage spills; therefore, these regulations apply directly to CSA 64.

Through the General Order, the SWRCB requires an Enrollee to:

- Comply with federal and state prohibitions of discharge of sewage to waters of the State, including federal waters of the United States.
- Comply with specifications, and notification, monitoring, reporting, and record keeping requirements in the General Order that implements the federal Clean Water Act (CWA), the California Water Code (CWC), and water quality control plans and policies (including Regional Water Board Basin Plans) and policies.
- Proactively operate and maintain resilient sanitary sewer systems to prevent spills.
- Eliminate discharges of sewage to waters of the State through effective implementation of an SSMP.
- Monitor, track, and analyze spills for ongoing system-specific performance improvements.
- Report noncompliance with this General Order per reporting requirements.

An Enrollee is a public or private entity that has obtained approval for regulator coverage under this General Order, including:

- A federal or state agency, municipality, special district, or other public entity that owns and/or operates one or more sanitary sewer systems:
  - Greater than one mile in length (each individual sanitary sewer system).
  - One mile or less in length where the State Water Board or a Regional Water Board requires coverage under this Order.
- A private company that owns and/or operates a sanitary sewer system of any size where the State Water Board or a Regional Water Board requires regulator coverage under this General Order.

## **REGULATORY REQUIREMENTS FOR SEWER SYSTEM MANAGEMENT GOAL AND INTRODUCTION ELEMENT**

The General Order requirements for the Introduction element of the SSMP are as follows:

*The goal of the Sewer System Management Plan (Plan) is to provide a plan and schedule to: (1) properly manage, operate, and maintain all parts of the Enrollee's sanitary sewer system(s), (2) reduce and prevent spills, and (3) contain and mitigate spills that do occur. The Plan must include a narrative Introduction section that*

*discusses the following items:*

- 1. Regulatory Context – The Plan Introduction section must provide a general description of the local sewer system management program and discuss Plan implementation and updates.*
- 2. Sewer System Management Plan Update Schedule – The Plan Introduction section must include a schedule for the Enrollee to update the Plan, including the schedule for conducting internal audits. The schedule must include milestones for incorporation of activities addressing prevention of sewer spills.*
- 3. Sewer System Asset Overview – The Plan Introduction section must provide a description of the Enrollee-owned assets and service area, including but not limited to:*
  - Location, including county(ies);*
  - Service area boundary;*
  - Population and community served;*
  - System size, including total length in miles, length of gravity mainlines, length of pressurized (force) mains, and number of pump stations and siphons;*
  - Structures diverting stormwater to the sewer system;*
  - Data management systems;*
  - Sewer system ownership and operation responsibilities between Enrollee and private entities for upper and lower sewer laterals;*
  - Estimated number or percent of residential, commercial, and industrial service connections; and*
  - Unique service boundary conditions and challenge(s).*

*Additionally, the Plan Introduction section must provide reference to the Enrollee's up-to-date map of its sanitary sewer system, as required in section 4.1 (Updated Map of Sanitary Sewer System) of this Attachment.*

San Bernardino County, Special Districts Department (Department) has initiated, completed, and submitted all required documentation and application forms to the SWRCB for the registration of this facility's WDR for the sanitary sewer system, including the Notice of Intent (NOI) to comply with the terms of the Statewide General Waste Discharge Requirements for sanitary sewer systems. The SWRCB issued a WDID, number 6SSO18104, for the CSA 64 sanitary sewer system.

The SSMP for the CSA 64 is described herein.

## GOALS DISCUSSION

The goal of this SSMP is to provide a living document, a written plan and schedule to properly manage, operate and maintain all elements of the CSA 64's collection system in order to diminish and prevent SSOs, as well as to mitigate any potential SSOs that may occur.

A copy of the General Order and certified SSMP is available to San Bernardino County Special Districts Department management, personnel, and contractors that are responsible for the Operation and Maintenance of the sanitary sewer system(s). Please refer to **Appendix I – SSMP Vol. II**.

The Department recognizes the importance of protecting water quality by minimizing and/or preventing raw sewage spills and is supplementing its existing Sewer System Management Program with the requirements of the new State regulations. The primary objectives of these regulations are:

- To properly manage, operate, and maintain all portions of the District's wastewater collection systems
- To provide adequate capacity to convey peak wastewater flows
- To minimize the frequency and magnitude of SSOs
- To prevent public health hazards
- To mitigate the impacts associated with any SSO that may occur
- To comply with all applicable regulatory notification and reporting requirements

## SEWER SYSTEM MANAGEMENT PLAN ELEMENT UPDATE SCHEDULE

Table 1-1 is the Department's schedule to update their MRP SSMP, conduct internal audits, annual submittals, and service area boundary map. Additionally, Table 1-1 schedule summarizes the milestones for incorporation of activities addressing prevention of sewer spills and completing areas of the SSMP that are deficient. Any updates made to the SSMP will be implemented once the report is finalized.

| <b>Table 1-1. SSMP Schedule<sup>(a)</sup></b>                                                                                                                                                                                                                                                                |             |                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------|
| Tasks                                                                                                                                                                                                                                                                                                        | Frequency   | Due Date                        |
| Annual Report                                                                                                                                                                                                                                                                                                | Annual      | April 1, 2025                   |
| Sanitary Sewer System Service Area Boundary Map <sup>(b)</sup>                                                                                                                                                                                                                                               | One Time    | December 31, 2025               |
| SSMP Update                                                                                                                                                                                                                                                                                                  | Six Years   | August 2, 2025                  |
| SSMP Audit                                                                                                                                                                                                                                                                                                   | Three Years | February 2, 2027 <sup>(c)</sup> |
| SSMP Audit                                                                                                                                                                                                                                                                                                   | Three Years | February 2, 2030 <sup>(d)</sup> |
| SSMP Update                                                                                                                                                                                                                                                                                                  | Six Years   | August 2, 2031                  |
| Notes:<br>(a) Sources: Section 5.4 of the General Order; Section 3.11 of Attachment E1 of the General Order.<br>(b) Electronic Sanitary Sewer System Service Area Boundary Map Specifications.<br>(c) Audit Period: August 3, 2024 to August 2, 2027.<br>(d) Audit Period: August 3, 2027 to August 2, 2030. |             |                                 |

## DISTRICT SERVICE AREA AND SEWER SYSTEM

The community of Spring Valley Lake is situated in an unincorporated area of San Bernardino County in the Mojave Desert located between the City of Victorville and the Town of Apple Valley and immediately north of the Sierra Madre Range and the San Bernardino Mountains (**Appendix F**). CSA 64 is located within the boundaries of County Service Area 70, of which the San Bernardino County Special Districts Department (Department) operates. The elevation of Spring Valley Lake is approximately 2,946 feet above sea level. CSA 64 encompasses approximately 2,076 acres of land and as of 2025 has a serving population of approximately 14,870 via 3,969 residential connections (98.5 percent of total), 53 commercial connections (1.3 percent of total), and 8 irrigation connections (0.2 percent of total).

### Sewer System Asset Overview

A major portion of the sanitary sewer system serving the community was built in the early 1970's and was transferred to CSA 64 when the district was formed. The Department currently provides for the operation, maintenance and management of the sewer collection system, consisting of 35.6 miles of 6"- 23" mainline pipe, approximately one mile of which is pressurized force main. The sewer collection system has a total of 774 manhole structures and cleanouts and is designed to convey an average daily flow of 900,000 gallons per day of wastewater. The gravity mainlines are generally located in public roads. The sewer collection system also consists of three (3) lift stations: Catalina Station, Spring Valley Parkway Station, and Lakeview Station. There are not any structures that divert stormwater into the sewer system. Refer to **Appendix I** for a map

of CSA 64's wastewater facilities.

The wastewater collected from CSA 64 is discharged into the Victor Valley Regional Wastewater Authority (VWRA) infrastructure for transport and disposal. In January 1984, the Regional Wastewater Reclamation Facility went into operation. The facility was constructed with funds derived from Federal and State clean water grants and assigned local share taxes. This facility provides interceptor capacity, wastewater treatment, and wastewater disposal for the Town of Apple Valley, the City of Hesperia, CSA 42, CSA 64 and the City of Victorville.

### **Data Management Systems**

The County currently uses a series of forms and data sheets to record and manage inspection data. Due to the size of the CSA 64 system, a complex data management is not required to be diligent with record keeping and data management; however, the County is planning to adopt and implement a CMMS in coming years to digitize their data management methods.

The County is currently building out their GIS database and is planning to transition to record drawing information (i.e., pipe alignment and characteristics) to their GIS database.

### **Ownership and Operation Responsibilities**

The San Bernardino County owns the collection system sewer mains, manholes, lift stations, and associated mains. The Special Districts Department Water and Sanitation Division operates, maintains, and manages the sewer systems. Property owners own and maintain their own laterals.

### **Unique Service Area Boundaries and Challenges**

There are not any unique service areas or boundary challenges within the CSA 64 system.

## **DOCUMENT ORGANIZATION**

The SSMP includes eleven mandatory elements, as listed below. Each of these elements forms a section of this document.

1. Sewer System Management Plan Goal and Introduction

2. Organization
3. Legal Authority
4. Operation and Maintenance Program
5. Design and Performance Provisions
6. Spill Emergency Response Plan
7. Sewer Pipe Blockage Control Program
8. System Evaluation, Capacity Assurance Capital Improvements
9. Monitoring, Measurement and Program Modifications
10. Internal Audits
11. Communication Plan

## SECTION 2 – ORGANIZATION

(SEE SSMP VOLUME II)

## SECTION 3 – LEGAL AUTHORITY

### REGULATORY REQUIREMENTS FOR LEGAL AUTHORITY ELEMENT

The General Order requirements for Legal Authority element of the SSMP are as follows:

*The Plan must include copies or an electronic link to the Enrollee's current sewer system use ordinances, service agreements and/or other legally binding procedures to demonstrate the Enrollee possesses the necessary legal authority to:*

- *Prevent illicit discharges into its sanitary sewer system from inflow and infiltration (I&I); unauthorized stormwater; chemical dumping; unauthorized debris; roots; fats, oils, and grease; and trash, including rags and other debris that may cause blockages;*
- *Collaborate with storm sewer agencies to coordinate emergency spill responses, ensure access to storm sewer systems during spill events, and prevent unintentional cross connections of sanitary sewer infrastructure to storm sewer infrastructure;*
- *Require that sewer system components and connections be properly designed and constructed;*

- *Ensure access for maintenance, inspection, and/or repairs for portions of the service lateral owned and/or operated by the Enrollee;*
- *Enforce any violation of its sewer ordinances, service agreements, or other legally binding procedures; and*
- *Obtain easement accessibility agreements for locations requiring sewer system operations and maintenance, as applicable.*

## **SUMMARY OF LEGAL AUTHORITY DOCUMENT**

Through the San Bernardino County Board of Supervisors' January 24, 1983 resolution establishing "Rules and regulations for Sewer Services for CSA 64" (Rules and Regulations) and the December 31, 1980 "Ordinance Regulating the Use and Construction of Public Wastewater Facilities" (Wastewater Ordinance), CSA 64 possesses the legal authority to furnish residents and businesses with wastewater collection, treatment, and the disposal of sanitary waste as required by the SWRCB. Refer to **Appendix A** of this report for the Rules and Regulations and **Appendix C – SSMP Volume II** for the Wastewater Ordinance.

### **Illicit Discharges into the Wastewater Collection System**

As established and approved by the San Bernardino County Board of Supervisors, CSA 64's Rules and Regulations shall: govern the quality and quantity of permissible discharges to the CSA's sewer system; provide limitations and prohibitions as to specified wastes such as grease, oil, and sand; require grease and sand interceptors and separators; regulate swimming pool discharges; and prescribe tests. Refer to Section 3.0 "General Use Regulations" of CSA 64's Rules and Regulations in **Appendix A** of this report for details regarding illicit discharges.

### **Sewer System Design and Construction Criteria**

Criteria for the design and construction of sewer lines and connections have been established in the June 1, 1982 San Bernardino County Special Districts Department, Standards for Sanitary Sewers, which was subsequently updated in 2012 (**Appendix D – SSMP Vol. II**). Additionally, building sewer requirements and sewer connection requirements must adhere to Section 1.8 and 1.9 of CSA 64's Wastewater Ordinance (**Appendix C – SSMP Vol. II**).

### **Access of Facilities Owned by Agency**

Per CSA 64's Wastewater Ordinance, Department representatives have access to all sanitary sewer facilities within the public right-of-way for maintenance and construction purposes with required permits. Where it is necessary to cross private property for maintenance and construction purposes, or to provide access for future sewers serving adjacent or upstream tributary land, easement documentation is to be obtained by the Department. Rules for the conformance to these procedures are outlined in Section 1.9 of the Wastewater Ordinance (**Appendix C – SSMP Vol. II**).

### **Limit Discharges of Fats, Oils and Greases (FOG)**

All FOG discharges are regulated in accordance with the Department's Sewer Pipe Blockage Control Program as outlined in **SECTION 7 (SSMP Volume II)**.

### **Enforcement of Any Violations of Sewer Ordinances**

Any person found to be in violation of any of the provisions in the Wastewater Ordinance, and failing to correct such violation within the time allowed, is to be penalized in accordance with Section 7.0 "Discontinuation of Service" of CSA 64's Rules and Regulations (**Appendix A**) and Section 1.12 and 1.13 of CSA 64's Wastewater Ordinance (**Appendix C – SSMP Vol. II**).

### **Stormwater Agency Coordination**

The County does not own, manage, or operate the stormwater infrastructure within the CSA 64 sewer service area. Communication and coordination with the local stormwater management agency, City of Victorville, is encouraged to manage the mitigate the potential consequences of a spill and prevent sewage from entering the storm drain conveyance system. Additionally, correspondence with the stormwater agency during the planning and design phase of projects helps prevent unintended cross connections between the sewer and storm drain infrastructure.

The storm drain conveyance infrastructure record drawings within the CSA 64 service area is provided in **Appendix H**. The storm drain conveyance infrastructure is also represented on CSA's updated map in **Appendix I**.

## SECTION 4 – OPERATION AND MAINTENANCE PROGRAM

### REGULATORY REQUIREMENTS FOR OPERATIONS AND MAINTENANCE PROGRAM ELEMENT

The General order requirements for the Operations and Maintenance Program element of the SSMP are as follows:

*The Plan must include the items listed below that are appropriate and applicable to the Enrollee's system:*

- 1. Updated Map of Sanitary Sewer System – An up-to-date map(s) of the sanitary sewer system, and procedures for maintaining and providing State and Regional Water Board staff access to the map(s). The map(s) must show gravity line segments and manholes, pumping facilities, pressure pipes and valves, and applicable stormwater conveyance facilities within the sewer system service area boundaries.*
- 2. Preventive Operation and Maintenance Activities – A scheduling system and a data collection system for preventive operation and maintenance activities conducted by staff and contractors.*

*The scheduling system must include:*

- Inspection and maintenance activities;*
  - Higher-frequency inspections and maintenance of known problem areas, including areas with tree root problems;*
  - Regular visual and closed-circuit television (CCTV) inspections of manholes and sewer pipes.*
- 3. Training – In-house and external training provided on a regular basis for sanitary sewer system operations and maintenance staff and contractors. The training must cover:*
    - The requirements of this General Order;*
    - The Enrollee's Spill Emergency Response Plan procedures and practice drills;*
    - Skilled estimation of spill volume for field operators; and*
    - Electronic CIWQS reporting procedures for staff submitting data.*

4. *Equipment Inventory – An inventory of sewer system equipment, including the identification of critical replacement and spare parts.*

## **SUMMARY OF OPERATIONS AND MAINTENANCE PROGRAM**

### **Existing Sewer Collection System**

The Department maintains an overview of CSA 64's sanitary sewer system, including the location of all gravity sewer mains, manholes, laterals, etc. The County is in the process of developing their GIS database for the CSA 64 system and producing GIS maps that displays sewer infrastructure, service area boundaries, and stormwater conveyance infrastructure within the service area. Any discrepancies between as-built drawings and field conditions will be flagged and rectified before entry into the GIS database.

Refer to **Appendix I** for an up-to-date map of CSA 64's wastewater facilities.

In accordance with Section 5.14 of the General Order, the LRO shall submit to the State and Regional Water Boards an up-to-date electronic spatial map of its sewer system service area boundaries, including the location of the wastewater treatment facility, using CIWQS.

### **Operations and Maintenance Program**

The Department maintains digital and hard copy maintenance records that contains a history of prior cleaning, televising, and corrective activity including: date work performed, time work performed, employee's name that provided maintenance, distance/footage cleaned, total time task completed, street location, line segment number, manhole number(s), size of pipeline, location of pipeline cleaned, justification for maintenance, condition of pipeline, amount of debris/roots/grease/other removed, whether or not follow-up is required, and the specific type of equipment used. The Department's maintenance program includes preventive, proactive, and corrective maintenance entries as well as the quality control measures used.

The sewer maintenance plan guides the frequency and required tasks for future sewer cleaning, televising and maintenance of all pumps/lift stations and related equipment. The frequency and assigned tasks are determined based on staff's operational and maintenance expertise, past equipment performance, manufacturer's recommendations and requirements, and all site-specific conditions and surroundings.

Problem sewer locations are identified, prioritized, and scheduled for maintenance based on a comprehensive review of the maintenance history and system characteristics, including: past SSOs, partial stoppages, disproportionate maintenance frequencies,

logistics, age, type of pipe, soil conditions, ground water tables, elevation (inclement weather factors), etc. Preventive maintenance activities are also scheduled for line segments with no prior cleaning history and/or no past excessive maintenance and/or cleaning issues. This preventive maintenance activity is based on a less frequent basis for "non-problem" branch and trunk sewers at a minimum interval of one cleaning or televising event every five years. A sample of the Department's cleaning record is attached as **Appendix E – SSMP Volume II**.

The Department has a proactive and preventive maintenance program for its sanitary sewer systems and is focused on critical and problematic areas. Preventive maintenance is performed by staff performing activities including, but not limited to, the following: high velocity sewer cleaning, root control, FOG source control, inspection of sewer manholes and facilities, sewer smoke testing, sewer pump/lift station maintenance and inspection, valve exercising, and customer complaint investigation. The Department's sewer main pipelines are divided into three (3) groups: trunk sewers (greater than 16 inches in diameter), branch sewers (16 inches or smaller in diameter), and outfall sewers (varying diameters from a WWTP to disposal site). In general, most sanitary sewer systems maintained by the Department are branch sewers. The CSA 64 sanitary sewer system consists of all branch sewer lines and building laterals that extend to Victor Valley Wastewater Reclamation Authority's sewer outfall or force-main.

For pipeline cleaning, the Department utilizes an evacuator type cleaning truck for removal of debris, roots, grease, and objects from sewer manholes, wet-wells, vaults, and other sewer facilities. Mechanical Roding machines and straight high velocity cleaners are also utilized in the cleaning process.

Overflows caused by blockages from fats, oils, and grease (FOG) are monitored for location and required cleaning frequency. The Department has increased the rotation of cleaning in sewers with repeated FOG related blockages or overflows.

New collection systems are televised through closed circuit television (CCTV) as a pre-acceptance requirement for the system.

The Department annually cleans and/or televises 20 percent of the sewer pipelines per year (i.e., utilizes a five year cycle); 100 percent of the sewer system is cleaned every 5 years. This general "Rule" is a set parameter and assumes that the sewer pipeline diameter is a minimum of 95 percent of the pipe's designed capacity. Any pipeline that falls below the Rule parameter will be re-cleaned and re-televised. If it is determined that the initial cleaning procedures were not conducted properly, the crew responsible for the initial cleaning will be re-trained and tested on equipment operations. Proficiency is the key to every successful program.

When sewer pipelines are cleaned and/or televised, a determination/observation is made on each future cleaning frequency for each line segment. In addition to the Department's routine maintenance activities, including mechanical root removal, the Department has on occasion used environmentally safe chemicals to control the growth of roots in sewer pipelines. The effectiveness of chemical root control treatment is carefully monitored and the frequency of treatment and application rates are adjusted, as required, to eliminate blockages caused by detached roots. Root intrusion issues are identified and addressed during routine cleaning and/or televising activities. The Department also identifies root intrusion issues during routine visual manhole inspections and during customer complaint investigations. Aggressive root control problems are mitigated through various methods. When mechanically addressed, a hydraulic root cutting tool is operated by way of a high velocity cleaner or a mechanical Roding machine. Other methods may call for pipeline replacement and/or pipeline lining to prevent re-growth. Chemical root control can be a viable alternative.

Pump and lift station maintenance: each sewage pump/lift station has a built-in backup emergency and redundancy system. The Department has installed Supervisory Control and Data Acquisition<sup>1</sup> (SCADA) at all lift stations. This assists with eliminating potential SSOs caused by power outages and/or mechanical failures. Staff schedule inspections and conduct preventive maintenance on control panels, alarms, pumps, motors, and appurtenances; conducting other related facility grounds maintenance as part of the routine preventive maintenance program. On average, each station is visited, inspected, and operated/maintained once every two days for approximately thirty (30) minutes.

Customer complaints are generally handled through the Division office. When a complaint is received the following minimum information is asked of the caller:

- Caller's name, call back number(s), home address, nature of the problem, location of the problem, cross street, Thomas Guide page number (if available), whether the problem is still occurring, the best time to call back, and the call time and date when the complaint was received.

Note: If field staff is contacted directly while working in the field, the same information is asked and documented, and the information is forwarded to the office.

- A service order (SO) is automatically created, documenting all relevant data for each customer complaint. Customer complaints include: sewer fee questions, possible sewer stoppages, manhole covers missing or defective, odor issues, and

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<sup>1</sup> SCADA is a computerized system that gathers and analyzes real time data. SCADA systems are used to monitor and control stations with emergency backup systems, generators, and other redundant systems.

occasionally a report of an SSO.

- Department staff is trained to appropriately and methodically respond to all service orders. The following service order procedures are conducted: time of contact is recorded; location of response; time of arrival; scene assessment; nature of the complaint recorded; actions/solutions recorded; and customer follow-up conducted (if appropriate).
- Service orders issued for known problem sewer locations are typically inspected through CCTV within forty-eight (48) hours. Sewer pipeline capacity is restored and all necessary repairs and/or replacements must be scheduled.

The Department is not responsible for sewage stoppages and/or SSOs within customer sewer building lateral.

### **Rehabilitation and Replacement Program**

Department staff assessed the CSA 64 sewer collection system with regard to sewer system capacity. In order to properly maintain and ensure that CSA 64's sewer facilities are in working order, the Department plans to have regular visual and CCTV inspection of manholes and sewer pipelines annually. A sample CCTV field data log is attached in this report for reference (**see Appendix E – SSMP Vol. II**).

### **Training Program**

Wastewater spill response and reporting procedure training is required annually for all staff assigned to collection system operations and maintenance. An overview of the WDR and Spill Emergency Response Plan is provided along with specific training on the roles and responsibilities of LROs and Data Submitters (e.g., CIWQS reporting procedures).

Mock SSO drills and emergency by-pass pumping drills are scheduled periodically to keep drill procedures fresh. Operators are trained on how to estimate spill volume. These drills are performed on an annual basis.

The California Water Environment Association's (CWEA) Technical Certification Program is a preferred certificate for Department staff assigned to collection system operations and maintenance. Currently, many employees hold this certificate at various levels.

A Commercial Drivers License (CDL) is required to be maintained in good standing by Department field staff at all times. The CDL must be a non-restricted Class "A" with tank endorsements (currently, hiring criteria dictates that all open field positions are required to possess a Class "A" non-restricted CDL with tank endorsements at the time of hire).

First-Aid/CPR Training is required for all Department field staff. This is a requirement per

CAL- OSHA; a competent person must be onsite and trained in First-Aid/CPR and to be able body to respond to an emergency when crews are performing a permitted Confined Space Entry that has the potential to become a Confined Space Rescue.

#### Additional Staff Training Programs

The Department pays/reimburses for the following training:

- Bi-Weekly Tail Gate Training
- California Water Environment Association (CWEA) Training
- Desert and Mountain Section (DAMS) Training
- Internal Weekly Technical Training – CEUs Provided Monthly Safety Training
- Southern California Alliance of Publicly Owned Treatment Works (SCAP) Training
- Specialty Courses Offered by Vendors
- SSO Emergency Response Drills – Semi-annual
- Spill-WDR Compliance Workshop: Electronic Reporting Requirements

The Department pays/reimburses for the following Memberships:

- American Water Works Association (AWWA)
- California Rural Water Association (CRWA)
- California Water Environment Association (CWEA)

Refer to **Appendix D** for current list of staff and respective positions.

#### **Equipment and Part Inventory**

The Department maintains an up-to-date inventory list of Emergency Vehicles (**Appendix F – SSMP Vol. II**) and Equipment. The Department maintains a general parts warehouse stocked with parts and materials that are distributed throughout contract service entities and county service areas; refer to **Appendix J – SSMP Volume II** for a flow chart depicting inventory control “Purchase Request Flowchart Process.”

## **SECTION 5 – DESIGN AND PERFORMANCE PROVISIONS**

(SEE SSMP VOLUME II)

## SECTION 6 – OVERFLOW EMERGENCY RESPONSE PLAN

(SEE SSMP VOLUME II)

## SECTION 7 – SEWER PIPE BLOCKAGE CONTROL PROGRAM

(SEE SSMP VOLUME II)

## SECTION 8 – SYSTEM EVALUATION, CAPACITY ASSURANCE AND CAPITAL IMPROVEMENTS

### **REGULATORY REQUIREMENTS FOR SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN ELEMENT**

The General Order requirements for System Evaluation and Capacity Assurance Plan element of the SSMP are as follows:

*The Plan must include procedures and activities for:*

- *Routine evaluation and assessment of system conditions;*
- *Capacity assessment and design criteria;*
- *Prioritization of corrective actions; and*
- *A capital improvement plan*

Other required components of the Plan include:

1. *System Evaluation and Condition Assessment – The Plan must include procedures to:*
  - *Evaluate the sanitary sewer system assets utilizing the best practices and technologies available;*
  - *Identify and justify the amount (percentage) of its system for its condition to be assessed each year;*
  - *Prioritize the condition assessment of system areas that:*

- i. *Hold a high level of environmental consequences if vulnerable to collapse, failure, blockage, capacity issues, or other system deficiencies;*
    - ii. *Are located in or within the vicinity of surface waters, steep terrain, high groundwater elevations, and environmentally sensitive areas;*
    - iii. *Are within the vicinity of a receiving water with a bacterial-related impairment on the most current Clean Water Act section 303(d) List;*
  - *Assess the system conditions using visual observations, video surveillance and/or other comparable system inspection methods;*
  - *Utilize observations/evidence of system conditions that may contribute to exiting of sewage from the system which can reasonably be expected to discharge into a water of the State;*
  - *Maintain documents and recordkeeping of system evaluation and condition assessment inspections and activities; and*
  - *Identify system assets vulnerable to direct and indirect impacts of climate change, including but not limited to: sea level rise; flooding and/or erosion due to increased storm volumes.*
2. *Capacity Assessment and Design Criteria – The Plan must include procedures to identify system components that are experiencing or contributing to spills caused by hydraulic deficiency and/or limited capacity, including procedures to identify the appropriate hydraulic capacity of key system elements for:*
- *Dry-weather peak flow conditions that cause or contributes to spill events;*
  - *The appropriate design storm(s) or wet weather events that causes or contributes to spill events;*
  - *The capacity of key system components; and*
  - *Identify the major sources that contribute to the peak flows associated with sewer spills.*

*The capacity assessment must consider:*

- *Data from existing system condition assessments, system inspections, system audits, spill history, and other available information;*

- *Capacity of flood-prone systems subject to increased infiltration and inflow, under normal local and regional storm conditions;*
  - *Capacity of systems subject to increased infiltration and inflow due to larger and/or higher-intensity storm events as a result of climate change;*
  - *Increases of erosive forces in canyons and streams near underground and aboveground system components due to larger and/or higher-intensity storm events;*
  - *Capacity of major system elements to accommodate dry weather peak flow conditions, and updated design storm and wet weather events; and*
  - *Necessary redundancy in pumping and storage capacities.*
3. *Prioritization of Corrective Action – The findings of the condition assessments and capacity assessments must be used to prioritize corrective actions. Prioritization must consider the severity of the consequences of potential spills.*
4. *Capital Improvement Plan – The capital improvement plan must include the following items:*
- *Project schedules including completion dates for all portions of the capital improvement program;*
  - *Internal and external project funding sources for each project; and*
  - *Joint coordination between operation and maintenance staff, and engineering staff/consultants during planning, design, and construction of capital improvement projects; and Interagency coordination with other impacted utility agencies.*

## **SYSTEM EVALUATION AND CONDITION ASSESSMENT**

Regular and systematic inspection and assessment of sanitary sewer system facilities provides a means to monitor the condition of the facilities and provides a basis for identifying and scheduling capital improvements. Inspections and assessments are prioritized by asset maintenance history and historical performance. Since all sewer infrastructure is within close proximity to the Spring Valley Lake and Mojave River, all infrastructure is highly critical to inspect and maintain.

The overall condition assessment includes utilizing CCTV to evaluate condition and recording of condition using the National Association of Sewer Service Companies (NASSCO) condition grading systems for pipelines and manholes. Approximately 20

percent of all pipelines and manholes are inspected per year on an annual basis. The County records all condition assessment inspections and activities and maintains a database inclusive of previous inspections. Refer to Section 4 for additional detail on condition assessment methods, procedures, and scheduling.

## **REPAIR AND REHABILITATION PROJECTS**

The Department has a proactive program to repair, rehabilitation, or replace the facilities appurtenances (pipes, pumps, fittings, motors, electrical, etc.) and system components (pipelines, manholes, etc.) as required. The San Bernardino County budgets a portion of their annual operating budget for rehabilitation and/or replacement of sewer lines located in their CSAs, including CSA 64.

Condition assessments are used to determine the funding required to repair, rehabilitate, and replace aging collection system and to prioritize the allocation of funds and optimizing the expenditure and efforts to operate a sewer collection system. Any pipeline that has evidence of exfiltration is prioritized for repair or rehabilitation due to the risk of the sewage discharging to waters of the State.

## **CAPACITY ASSESSMENT AND DESIGN CRITERIA**

Currently the population is at 90 percent of build-out. The Department has determined that CSA 64's sewage facilities are designed for buildout capacity. There have not been any capacity-related spills within the last ten years, and no increases in I/I has been detected. The Department has adopted an internal policy to routinely and systematically clean the sanitary sewer pipelines according to a schedule to maintain optimum system capacity.

## **PRIORITIZATION AND CORRECTIVE ACTIONS**

The findings from the condition assessments and capacity are used to determine which assets require corrective action to rectify defects. Corrective actions are prioritized based on the following:

- Severity and frequency of defect(s)
- Remaining existing and projected hydraulic capacity
- Historical performance (e.g., spill records)

## CAPITAL IMPROVEMENT PROGRAM

Capital improvement planning is a continual process that takes place year-round. The Department utilizes information collected from the various system evaluation methods described above to develop plans to identify and address capital improvement needs. Department engineering staff, operations staff, and consultants, as necessary, are included in the process of developing the projects from planning and design through implementation during construction.

A Capital Improvement Forecast is reviewed annually to identify anticipated project expenditures that will improve CSA 64's infrastructure and is inclusive of short-term and long-term capital projects. Key information within the Capital Improvement Forecast related to CSA 64's sanitary sewer system includes estimated budget, funding sources, timeline. Refer to Table 8-1 for a summary of current and upcoming capital improvement projects.

| <b>Table 8-1. Summary of Capital Improvements for CSA 64</b> |                    |           |                             |                                                                                                                                   |
|--------------------------------------------------------------|--------------------|-----------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Project Name                                                 | Schedule           | Budget    | Funding Source              | Description                                                                                                                       |
| Lakeview Lift Station Renovation                             | Q1 2025 to Q3 2025 | 1,537,000 | Funded from Operating funds | Renovation of Lift Station due to odors coming from the lift station, a history of screw pump failure, and malodorous conditions. |
| Sewer Line Replacement                                       | 2025-2027          | 412,000   | Funded from Operating funds | Replacement pipelines that have root intrusion.                                                                                   |

## SECTION 9 – MONITORING, MEASUREMENT, AND PLAN MODIFICATIONS

### REGULATORY REQUIREMENTS FOR MONITORING, MEASUREMENT, AND PLAN MODIFICATIONS ELEMENT

The General Order requirements for Monitoring, Measurement, and Plan Modifications element of the SSMP are as follows:

*The Plan must include an Adaptive Management section that addresses Plan-implementation effectiveness and the steps for necessary Plan improvement,*

*including:*

- *Maintaining relevant information, including audit findings, to establish and prioritize appropriate Plan activities;*
- *Monitoring the implementation and measuring the effectiveness of each Plan Element;*
- *Assessing the success of the preventive operation and maintenance activities;*
- *Updating Plan procedures and activities, as appropriate, based on results of monitoring and performance evaluations; and*
- *Identifying and illustrating spill trends, including spill frequency, locations and estimated volumes.*

## **MONITORING, MEASUREMENT, AND PLAN MODIFICATIONS DISCUSSION**

Since the implementation of SSMPs, the Department has utilized the following monitoring and performance goals to gauge the effectiveness of the program:

- A. On an annual basis, compare the number of sanitary sewer overflows for each County Service Area and contracted service entity.
- B. Compare the frequency and magnitude of sewer pump/lift station failures and SSOs in each County Service Area and contracted service entity.
- C. On an annual basis, monitor, document and evaluate SSOs for any potential impacts to human health or impacts to the immediate environment in each County Service Area and contracted service entity.
- D. On an annual basis, track the miles of sewer pipeline cleaned in each County Service Area and contracted service entity.
- E. The Department shall maintain a permanent log of complaints regarding collection system overflows and associated odors.
- F. The Department shall maintain a comprehensive cost accounting for all funds related to outside forces or contractors employed for activities required by the SSMP.
- G. The Department shall maintain annual records of Inflow and Infiltration (I/I) to evaluate, per the Environmental Protection Agency (EPA), whether certain portions of the collection system exceed allowable I/I flows per mile.
- H. On an annual basis, the Department shall maintain a separate and comprehensive record of the number of miles of rehabilitated and/or replaced sewer pipeline.

The Department's final performance measure is the overall reduction of SSOs in each County Service Area and contracted service entity, including the reduction of SSO

volume and magnitude and the impacts to water quality and the environment. Refer to **Appendix E** for CIQWS Report and No Spill Reports for CSA 64.

The Department is dedicated to mitigating and reducing SSOs at each County Service Area and contracted service entity, including CSA 64's sanitary sewer system. The Department tracks and evaluates budgetary requirements that may be needed to accomplish this goal. The San Bernardino County Board of Supervisors approves appropriate budgetary funding to assure that items required by the State of California comply with the regulations for implementation of the SSMP program.

The SSMP requires periodic updates to maintain current information and modify procedures and programs for improvements as needed. These changes are documented and tracked in the following SSMP Change Log.

**County Service Area 64 (Volume I)**  
**Spring Valley Lake**  
**San Bernardino County Special District Department**  
**Sewer System Management Plan Change Log**

| <b>Date</b> | <b>SSMP Element/Section</b> | <b>Page No.</b> | <b>Description of Change/Revision Made</b>                                                                                | <b>Change Authorized By:</b> |
|-------------|-----------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 3/23/17     | Cover Page                  | N/A             | Updated date of SSMP                                                                                                      |                              |
| 3/23/17     | Table of Contents           | ii              | Deleted Plates                                                                                                            |                              |
| 3/23/17     | Table of Contents           | iii             | Added Appendix D, Current List of Staff and Positions                                                                     |                              |
| 3/23/17     | Table of Contents           | iii             | Added Appendix E, CIQWS Reports for CSA 64                                                                                |                              |
| 8/17/17     | Table of Contents           | iii             | Added SSMP Vol. II Appendices N through S                                                                                 |                              |
| 8/23/17     | Table of Contents           | iii             | Added Appendix F, CSA 64 - Spring Valley Lake Location Map                                                                |                              |
| 8/23/17     | Table of Contents           | iii             | Added Appendix G, CSA 64 - Spring Valley Lake Wastewater System Map                                                       |                              |
| 3/23/17     | Acronyms                    | 1               | Updated MRP acronym                                                                                                       |                              |
| 3/23/17     | Acronyms                    | 2               | Added SSS WDR acronym                                                                                                     |                              |
| 3/23/17     | Terms                       | 6               | Updated and added sanitary sewer overflow categories                                                                      |                              |
| 3/23/17     | Introduction                | 9               | Updated fourth paragraph of SSMP Requirement Background to include explanation of SWRCB Order No. WQ 2013-0058-EXEC       |                              |
| 3/23/17     | Introduction                | 10              | Updated third paragraph of District Service Area and Sewer System to reference Appendix C, CSA 64's wastewater facilities |                              |
| 8/23/17     | Introduction                | N/A             | Deleted Plate 1, added as Appendix F                                                                                      |                              |
| 8/23/17     | Introduction                | N/A             | Deleted Plate 2, added as Appendix G                                                                                      |                              |
| 3/23/17     | Section 4, O & M Program    | 14              | Updated reference to Appendix C                                                                                           |                              |

| <b>Date</b> | <b>SSMP Element/Section</b>                                | <b>Page No.</b> | <b>Description of Change/Revision Made</b>                                                                          | <b>Change Authorized By:</b> |
|-------------|------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------|------------------------------|
| 3/23/17     | Section 4, O & M Program                                   | 18              | Added reference to Appendix D, current list of staff and respective positions                                       |                              |
| 3/23/17     | Section 4, O & M Program                                   | 18              | Updated reference to Appendix F-SSMP Vol. II to Emergency Vehicles Inventory                                        |                              |
| 3/23/17     | Section 4, O & M Program                                   | N/A             | Deleted Plate 3                                                                                                     |                              |
| 3/23/17     | Section 8, System Evaluation and Capacity Assurance Plan   | 19              | Updated last paragraph of this section with latest population and build-out data                                    |                              |
| 3/23/17     | Section 9, Monitoring, Measurement, and Plan Modifications | 20              | Updated Item E of the requirements                                                                                  |                              |
| 3/23/17     | Section 9, Monitoring, Measurement, and Plan Modifications | 20              | Updated first paragraph for more current statement                                                                  |                              |
| 3/23/17     | Section 9, Monitoring, Measurement, and Plan Modifications | 20              | Added reference to Appendix E, CIQWS Reports and No Spill Reports for CSA 64 to second paragraph                    |                              |
| 3/23/17     | Section 9, Monitoring, Measurement, and Plan Modifications | 21              | Added fourth paragraph regarding the change log                                                                     |                              |
| May 2025    | Elements I – XI, Appendices                                | 1 – 26          | All Elements and necessary appendices were updated to comply with the new General Order issued in December of 2022. | G. Snyder                    |

## SECTION 10 – INTERNAL AUDITS

### REGULATORY REQUIREMENTS FOR SSMP PROGRAM AUDITS ELEMENT

The General Order for SSMP Program Audits element of the SSMP are as follows:

*The Plan shall include internal audit procedures, appropriate to the size and performance of the system, for the Enrollee to comply with section 5.4 (Sewer System Management Plan Audits) of the General Order.*

*Per Section 5.4 of the General Order, at a minimum, an internal audit must:*

- *Evaluate the implementation and effectiveness of the Enrollee's Sewer System Management Plan in preventing spills;*
- *Evaluate the Enrollee's compliance with this General Order;*
- *Identify Sewer System Management Plan deficiencies in addressing ongoing spills and discharges to waters of the State; and*
- *Identify necessary modifications to the Sewer System Management Plan to correct deficiencies.*

*The Enrollee shall submit a complete audit report that includes:*

- *Audit findings and recommended corrective actions;*
- *A statement that sewer system operators' input on the audit findings has been considered; and*
- *A proposed schedule for the Enrollee to address the identified deficiencies.*

## **INTERNAL AUDITS DISCUSSION**

Audit programs are intended to provide controls for ensuring that all programs associated with the SSMP are being implemented as planned and managed appropriately. Audit outcomes should provide information about challenges and successes in implementing the SSMP by evaluating work practices and operations, documentation, procedure records, and staff for implementation effectiveness and consistency. The audit will identify any program or policy changes that may be needed to continually improve effective implementation. Information collected as part of an audit should be used to plan program or procedure revisions necessary to improve program performance.

The Department plans to take a proactive approach to auditing and updating the SSMP. The Department has established an internal policy to perform a comprehensive internal audit once every two years to evaluate the effectiveness of the SSMP elements and its compliance with the General Order Requirements. The audit will also include a report containing the results of the audits along with recommendations and suggested improvements to the State Water Resources Control Board. The SSMP document will be continuously updated and brought before the San Bernardino County Board of Supervisors for approval as needed or required.



The LRO is responsible for coordinating and compiling the major aspects of the program audit, including relevant interviews and data collection. The LRO may also designate key Department staff that are knowledgeable in the CSA 64's sewer system to assist with audits.

Upon completion of the information gathering, the Department must document the results in an audit report. The LRO will certify and submit an audit report to the CIWQS Sanitary Sewer System Database per the requirements in the General Order. The Department must retain the audit report on file in compliance with the General Order. A copy of the report must be submitted to the SWRCB.

The Audit for the 2017 SSMP was performed in 2025 as is provided in **Appendix J**.

## SECTION 11 – COMMUNICATION PROGRAM

(SEE SSMP VOLUME II)

# APPENDIX A: RULES AND REGULATIONS



# APPENDIX A:

## RULES AND REGULATIONS

RESOLUTION NO. 83-22

RESOLUTION OF THE BOARD OF SUPERVISORS  
OF THE COUNTY OF SAN BERNARDINO  
ACTING ON BEHALF OF

COUNTY SERVICE AREA 64

ESTABLISHING  
RULES AND REGULATIONS  
FOR SEWER SERVICE

January 24, 1983

COUNTY OF SAN BERNARDINO  
SPECIAL DISTRICTS DEPARTMENT

COUNTY SERVICE AREA 64

Rules and Regulations

for

SEWER SERVICE

RESOLUTION NO. 83-22

January 24, 1983

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COUNTY SERVICE AREA 64

COUNTY OF SAN BERNARDINO

RULES AND REGULATIONS FOR SEWER SERVICE

RESOLUTION NO. 83-22

RESOLUTION OF THE BOARD OF SUPERVISORS OF  
THE COUNTY OF SAN BERNARDINO ACTING IN ITS CAPACITY AS  
THE GOVERNING BODY OF COUNTY SERVICE AREA 64 ESTABLISHING  
RULES AND REGULATIONS FOR SEWER SERVICE.

----

BE IT RESOLVED by the Board of Supervisors of the County of San Bernardino, California, acting in its capacity as the governing body of County Service Area 64 as follows:

SECTION 1.0 - GENERAL PROVISIONS

- 1.1 Short Title - This Resolution shall be known and may be cited as Rules and Regulations, Sewer Service.
- 1.2 Words and Phrases - For the purpose of this Resolution, all words used herein in the present tense shall include the future; all words in the plural number shall include the singular number; and all words in the singular number shall include the plural number.
- 1.3 Sewer System - The District provides a Public Sewer System, including all parts of the system, all appurtenances to it, and lands, easements, rights to land, contract rights, other collection facilities and equipment for the collection of waste waters within the District; and contracts with Victor Valley Wastewater Reclamation Authority for the treatment, and disposal of waste waters from the District's System.
- 1.4 Separability - If any section, sub-section, sentence, clause, or phrase of this Resolution is for any reason adjudged to be invalid, such decision shall not affect the validity of the remaining portions of this Resolution.
- 1.5 Tampering with District System - No one, except an authorized employee or representative of the District, shall at any time and in any manner operate, interfere disrupt or tamper with the District's system or any related equipment.
- 1.6 Protection from Damage -All District property comes within the operation of Penal Code, Section 594, which provides in general that every person who maliciously injures or destroys any real or personal property not his own, in cases otherwise than such as are specified in this Code, is guilty of a misdemeanor."

SECTION 1.0 - GENERAL PROVISIONS  
(continued)

1.7 Penalty for Violation - If any Person fails to comply with all or any part of these Rules and Regulations, or any District resolution or order fixing rates and charges, the District may pursue any remedy provided to it by law, including, without limitation, Section 1.13 of the District Ordinance, a copy of which is on file and available for inspection at the business office of the District and at the office of the Clerk of the Board of Supervisors.

1.8 Variance - When any person, by reason of special circumstances, is of the opinion that a variance is necessary or that any provision of these Rules and Regulations is unjust or inequitable as applied to his facilities or property, that Person may make written application as specified in Section 1.12.10 of the District Ordinance, a copy of which is on file and available for inspection at the business office of the District and at the office of the Clerk of the Board of Supervisors.

## SECTION 2.0 - DEFINITIONS

2.1 Definitions - The meaning of terms used in these Rules and Regulations shall be as defined in the Uniform Plumbing Code except as specifically modified herein, or as inconsistent with the definitions contained herein or with the context thereof. The following definitions shall prevail in the event of any inconsistency with or omission from the Uniform Plumbing Code definitions:

2.1.01 APPLICANT - The person making application hereunder, who shall be the owner of the premises involved or his agent authorized as such in writing, or a plumber or contractor licensed as such by the State of California.

2.1.02 AGENT - The person authorized in writing to act on behalf of the Owner, or a plumber or Contractor acting at the direction of the Owner and licensed as such by the State of California.

2.1.03 BOARD - The Board of Supervisors of the County of San Bernardino, State of California, acting in its capacity as the governing body of the District.

2.1.04 BUILDING SEWER - That portion of sewer from the building sewer drain to the Public Sewer, including the sewer lateral and the cleanout.

2.1.05 COMMISSION - An Advisory Commission of the District appointed by the Board in accordance with its policies.

2.1.06 CONTRACTOR - An individual, firm, corporation, partnership, or association duly licensed by the State of California to perform the type of work to be done under the permit, contract or agreement.

2.1.07 COST - The cost of labor, material, transportation, supervision, engineering, and all other necessary overhead expenses.

2.1.08 COUNTY - The County of San Bernardino, State of California.

2.1.09 DISTRICT - Any county service area, improvement zone, or sanitation district which has adopted these Rules and Regulations and for which the Board is the governing body. Also, textual reference to "The District", shall mean the county service area, improvement zone or sanitation district which is administering or enforcing these Rules and Regulations.

2.1.10 DISTRICT ENGINEER - The Engineer appointed by the Board to support the District.

2.1.11 DISTRICT MANAGER - The person employed or appointed to act as manager for the District.

SECTION 2.0 - DEFINITIONS  
(continued)

- 2.1.12 DISTRICT ORDINANCE - Ordinance No. SD 80-9, adopted by the Board on December 1, 1980 to regulate the use and construction of Public Wastewater Facilities, as the same may be amended from time to time.
- 2.1.13 EQUIVALENT DWELLING UNITS (EDU) - The number of Equivalent Dwelling Units fixed and established for all the various classifications of types and uses of property by the Rules and Regulations of the District, as such classifications may be duly revised from time to time.
- 2.1.14 FIXTURE UNIT EQUIVALENTS - The fixture unit equivalent prescribed by the Uniform Plumbing Code or substantially equivalent provisions in subsequent plumbing codes adopted by the Board.
- 2.1.15 GARBAGE - Solid wastes from the preparation, cooking, and dispensing of food, and from the handling, storage and sale of produce.
- 2.1.16 INSPECTOR - An authorized District representative who performs inspection duties.
- 2.1.17 INDUSTRIAL WASTEWATER - Any and all liquid or water borne waste from industrial or commercial processes, except domestic sewage.
- 2.1.18 LIVING UNIT - A building or part of a building which contains one kitchen facility and/or one or more bathrooms, and which is normally used as a residence.
- 2.1.19 OWNER - The person or persons in whose name the legal title to property appears by deed duly recorded in the County Recorder's Office. Also, a person holding property pursuant to a Term Special Use or other permit issued by a governmental entity.
- 2.1.20 PERMIT - Any written authorization required pursuant to these Rules and Regulations, the District Ordinance, or any other rule or regulation of the Board.
- 2.1.21 PERSON - One or more individuals of either sex, or a company or other legal entity, including the heirs, assigns and successors in interest thereof.
- 2.1.22 PUBLIC SEWER - That portion of a sewer which is a common sewer and is owned or directly controlled by the District. It does not include any portion of a building sewer.
- 2.1.23 SEWAGE - Any liquid waste containing animal or vegetable matter in suspension or solution and may include liquids containing chemicals in solution.

SECTION 2.0 - DEFINITIONS  
(continued)

- 2.1.24 SEWER SYSTEM - A system which may include any combination of integrated facilities for collecting, transporting, pumping, treating and disposing of sewage, which are owned, directly controlled, or otherwise furnished by the District.
- 2.1.25 SEWER - A pipe or conduit for carrying sewage.
- 2.1.26 SPECIAL DISTRICTS DEPARTMENT - The department authorized by the Board to provide extended services to special districts functioning in the County.
- 2.1.27 SPECIAL DISTRICTS DIRECTOR - The person appointed by the Board to act as Director for the Special Districts Department.
- 2.1.28 UNIFORM PLUMBING CODE - The Uniform Plumbing Code as published by the International Association of Plumbing and Mechanical Officials and as adopted by the County as its plumbing code.
- 2.1.29 USER - The person or persons owning or controlling or entitled to possession of property or improvements to which the sewer facilities of the District are connected or available.
- 2.1.30 WASTEWATER FACILITIES - Any facility for the transportation, treatment, or disposal of sewage.

## SECTION 3.0 - GENERAL USE REGULATIONS

3.1 General - The construction of sewers and laterals and connections to the Sewer System shall be governed by the District's Standards for Sanitary Sewers and the Uniform Plumbing Code except as herein modified. Unless the context dictates otherwise, the technical terms used in Sections 3.6 through 3.12 of these Rules and Regulations (i.e. Biochemical Oxygen Demand- B.O.D., Dissolved Solids- D.S., Suspended Solids- S.S., etc.) shall be as defined in the latest adopted edition of "Standard Methods for the Examination of Water and Wastewater" as published by the American Public Health Association.

3.2 Installation Costs - All costs and expenses incident to the installation and connection of the Building Sewer shall be borne by the Owner. The Owner shall indemnify the District against any liability occasioned by the installation of the Building Sewer.

3.3 Notification of District - An Applicant for a Building Sewer Permit shall notify the District twenty four (24) hours in advance when the Building Sewer is ready for inspection. The Building Sewer and its connection to the Sewer System shall be consistent with the District's Standards, the Uniform Plumbing Code, and in accordance with Section 1.8 of the District Ordinance #SD 80-9.

3.4 Excavations - All excavations for Building Sewer installations shall be adequately guarded with barricades and lights to protect the public from hazard. Streets, sidewalks, and other public property disturbed in the course of the work shall be restored in a manner satisfactory to the District and the Owner of such property. All excavations shall comply with all applicable government safety codes and the Contractor or Owner shall secure all necessary permits.

3.5 Testing - A clean-out or two way test tee shall be installed at the point the Building Sewer exits the structure and at the point the Building Sewer crosses the property line. A length of 1/2" x 18" steel re-bar shall be buried horizontally 6" below the ground surface at the location of the clean-out at the property line. The connections to the Sewer System shall be water tested and inspected in the presence of the Inspector. The labor and materials for testing shall be furnished by the Person constructing the sewer. All lines showing leakage, poor workmanship not in conformance with all applicable codes and District Standards for Sanitary Sewers shall be repaired, reworked, or replaced at the expense of the Applicant or Person doing the work and to the satisfaction of the Inspector.

SECTION 3.0 - GENERAL USE REGULATIONS  
(continued)

3.6 Industrial Wastewater - Any Person desiring to discharge industrial wastewater into a Public Sewer of the District will be required, on request of the District, to submit a letter to the District Manager presenting information as to the kind and amount of industrial wastewater to be so discharged. No industrial wastewater shall be discharged into the Sewer System which will cause the effluent discharged from the sewage treatment facilities to violate any discharge requirements set by the California Regional Water Quality Control Board having jurisdiction.

No industrial wastewater shall be discharged to the Public Sewer which exceeds the following chemical, physical and/or bacteriological concentrations:

- a. Methylene Blue Active Substance, 1.0 mg/l.
- b. Dissolved sulfides, 0.1 mg/l.
- c. Five (5) day Biochemical Oxygen Demand, 700 mg/l.
- d. Total dissolved solids, 500 mg/l plus the yearly average total dissolved solids in the industry's water supply.
- e. Sodium-ion, 100 mg/l plus yearly average sodium-ion in the industry's water supply.
- f. Chloride-ion, 100 mg/l plus yearly average of the chloride-ion in the industry's water supply.

3.7 Types of Waste Prohibited - No Person shall discharge or cause to be discharged any of the following described liquids or other wastes to any Public Sewer:

3.7.01 Flammable, or Explosive Substances - Any gasoline, benzene, naptha, fuel oil, or other flammable, or explosive hydrocarbon as a liquid, solid or gas.

3.7.02 Toxic or Poisonous Substances - Any toxic or poisonous solids, liquids, or gases in sufficient quantity, either singly or by interaction with any other wastes, to injure or interfere with any sewage treatment process, constitute a hazard to humans or animals, create a public nuisance, or create any hazard to the receiving waters of the sewage treatment plant, including but not limited to cyanides in excess of two (2) mg/l as CN in the wastes as discharged to the Public Sewer.

3.7.03 pH Range and Corrosive Properties - Any liquid or other wastes having a pH lower than 5.5 or higher than 9.5 or having any other corrosive property capable of causing damage or hazard to person or to property.

SECTION 3.0 - GENERAL USE REGULATIONS  
(continued)

3.7.04 Solid or Viscous Substances - Solid or viscous substances in quantities or of such size capable of causing obstruction to the flow in sewers, or other interference with the proper operation of the sewage works, including but not limited to such substances as ashes, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastics, wood, unground garbage, whole blood, paunch, manure, hair and fleshings, entrails, and paper dishes, cups, milk containers, or other material, either whole or ground by garbage grinders.

3.7.05 High Temperature Limit - Any liquid or vapor having a temperature higher than one hundred fifty (150) degrees F (65 degrees C) at the Building Sewer.

3.7.06 Fats, Waxes, Grease or Oils - Any liquid or other waste containing fats, wax, grease, or oils, in excess of one hundred (100) mg/l, whether emulsified or not; or containing substances which may solidify or become viscous at temperatures between thirty-two (32) degrees F and one hundred fifty (150) degrees F (0 degrees C and 65 degrees C).

3.7.07 Heavy Metals or Excessive Chlorine Demand - Any liquid or other waste containing iron, chromium, copper, zinc, and similar objectionable or toxic substances, or wastes exerting an excessive chlorine requirement, to such degree, that any such material received in the composite sewage at the sewage treatment works exceed the limits established by local, State or Federal agencies for such materials.

3.7.08 Phenols, Odor or Taste Producing Substances - Any liquid or other waste containing phenols or other taste or odor-producing substances in concentrations exceeding limits which may be established by the District to meet applicable requirements of the local, State, or Federal agencies.

3.7.09 Suspended or Dissolved Solids - Materials which exist or cause unusual concentrations of Suspended Solids or of Dissolved Solids, which interfere with the treatment plant process or cause violations of applicable waste discharge requirements.

3.7.10 Radioactive Wastes - Any radioactive material or substance which exceeds the half life or concentration limits set by applicable State or Federal regulations.

3.7.11 Untreatable Wastes - Liquid or other wastes containing substances which are not amenable to treatment or reduction by the sewage treatment processes employed, or are not sufficiently amenable to treatment to permit the sewage treatment plant effluent to meet the requirements of other agencies having jurisdiction over discharge to the receiving waters.

SECTION 3.7 - GENERAL USE REGULATIONS  
(continued)

3.7.12 Pumpings from Septic Tanks, Cesspools, Leach Pits, Holding Tanks and Chemical Toilets - Pumpings from chemical toilets, septic tanks, holding tanks, and cesspools or leach pits.

3.7.13 Surface Runoff or Groundwater - Surface runoff or groundwater as indicated in Section 1.8.08 of the District Ordinance.

3.7.14 Water Softening Unit Wastes - Any waste discharge resulting from the charging, regeneration or operation of water softening equipment.

3.7.15 Damaging Substances - Any material or concentration of material which will cause damage, or abnormal maintenance or operation costs in respect to any part of the Sewer System.

3.8 Control of Prohibited Wastes - If any liquid or other waste is discharged, or is proposed to be discharged to the Public Sewers, which contains the substances or possesses the characteristics enumerated in Section 3.7 of these Rules and Regulations or which in the judgment of the District Manager or District Representative may have a deleterious effect upon the Sewer System or the processes, equipment, or receiving waters connected therewith, or which otherwise create a hazard to life or constitute a public nuisance, the District may invoke Section 1.12 and/or 1.13 of the District Ordinance, and in addition may take any of the following actions:

3.8.01 Pretreatment - Require pretreatment by the Owner to an acceptable condition for discharge to the Public Sewers. The design and installation of the plants and equipment shall be subject to the review and approval of the District and subject to the requirements of all applicable codes, ordinances, laws and regulations.

3.8.02 Quantities and Rates - Require that the Owner exercise specific control over the quantities and rates of discharges.

3.8.03 Grease and Sand Interceptors and Separators - Require the Owner to install, maintain, and use Grease and Sand Interceptors and Separators as specified in Sections 709, 710, 711, and 712 of the Uniform Plumbing Code, as modified and superseded by the District Ordinance or District Rules and Regulations.

3.8.04 Costs - Require payment from the Owner to cover the added cost to the District for handling and treating the wastes not covered by existing taxes or sewer charges.

SECTION 3.0 - GENERAL USE REGULATIONS  
(continued)

3.9 Maintenance of Flow Equalizing System - Where any fluid or other waste is undergoing preliminary treatment or flow-equalizing, the facilities for such processes shall be continuously maintained in satisfactory and effective operation by the Owner at his expense.

3.10 Tests and Measurements - All measurement, tests, and analyses of the characteristics of liquid and other waste to which reference is made in this Resolution shall be conducted in accordance with the latest adopted edition of "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association. The Applicant shall be responsible for all Costs incurred.

3.11 Swimming Pools - It shall be unlawful for any Person to discharge the contents of a swimming pool into the Public Sewer except in the manner specified herein. The rate of out-flow shall not exceed one hundred (100) gallons per minute. Each swimming pool discharging into the Public Sewer shall be equipped with a fixed air gap approved by the San Bernardino County Department of Building and Safety and Department of Environmental Health Services to preclude any possibility of a backflow of sewage into the swimming pool or piping system.

3.12 Pumped Waste - The discharge of pumpings from chemical toilets, septic tanks, holding tanks, and cesspools or leach pits is prohibited.

3.13 More Restrictive Provisions - The District may, by contract or operation of law be or become subject to discharge requirements which impose more restrictive discharge limitations than are set forth in this Regulation. All such discharge requirements are hereby incorporated into this Regulation. After due notice thereof, no Person shall discharge to the Sewer System or cause to be discharged thereto any wastewater or other substance which would violate or cause the District to be in violation of any discharge requirement, whether specifically set forth as incorporated herein or not.

SECTION 4.0 - APPLICATION FOR SEWER SERVICE  
AND CONNECTION TO SEWER SYSTEM

4.1 Application for Sewer Service - Application for sewer service from the District shall be made by an Applicant on a form prescribed by the District. The application form must be completed and signed by the Owner of the parcel requesting service. If an authorized agent of the Owner or the Owner's Contractor requests service to a parcel on behalf of the current Owner, and the Owner is not available to sign the application, the Owner's authorized agent or Contractor may make application for service by paying a \$50.00 deposit covering necessary fees. Upon receipt by the District of an application form signed by the Owner, the \$50.00 deposit will be refunded to the Owner's authorized agent or Contractor. The \$50.00 deposit will be forfeited if the District does not receive a completed application form signed by the Owner within 30 days after the Owner's authorized agent or Contractor makes application. In no case shall a sewer connection be inspected by the District unless the completed application form, signed by the Owner, has been received by the District. If sewer service is provided to the parcel and payment is not received for the User Charge due the District, the amount of the User Charge due the District may be deducted from the \$50.00 deposit.

4.2 Compliance-Intent of Applicant - Such application will signify the Owner's willingness and intention to comply with this and other ordinances or regulations relating to District sewer service and to make required payment for sewer service.

4.3 Payment for Previous Service - An application for sewer service or connection permit will not be granted unless all accounts or outstanding invoices due the District, either against subject property or by said Applicant, have been paid in full to the satisfaction of the District.

4.4 Application for Connection to Sewer System - An Applicant shall make application for connection to the Sewer System at the District office. The Applicant shall give a description of the character of the work proposed to be done, the legal description (Lot, Tract, Parcel #, and situs address) the location, ownership, occupancy, and use of the premises to be served, and the name and address of the Person who shall make the connection. The District may require plans, specifications, or drawings and such other information as may be deemed necessary to insure compliance with District's Rules and Regulations.

If the District determines that the plans, specifications, drawings, descriptions, or information furnished by the Applicant are in compliance with the District Ordinance and all other applicable laws, rules and regulations, the District shall issue the Permit applied for upon payment of the required fees pursuant to Section 10.0 hereof.

SECTION 4.0 - APPLICATION FOR SEWER SERVICE  
AND CONNECTION TO SEWER SYSTEM  
(continued)

4.5 Duration of Permit - Permits issued pursuant to these Rules and Regulations shall expire at the time stated upon the Permit, not to exceed six (6) months, and shall then be of no further force or effect. Fees paid under any Permit are not subject to refund or credit in the event that a Permit expires without completion of its entitlement.

4.6 Compliance with Permit - After approval of the application, evidenced by the issuance of a Permit, no change shall be made in the location of any sewer, or from the grade, materials, time limit ownership or legal description (Lot, Tract, Parcel #, and situs address), or other details described in the Permit or shown on the plans and specifications for which the Permit was issued, except with written permission from an authorized representative of the District. A Permit shall not be transferrable from one Owner to another or from one parcel to another.

4.7 Agreement - The Applicant's signature on a Permit shall constitute an agreement between the Owner and the District, in which the Owner agrees to comply with all applicable laws, rules and regulations, and ordinances, and with the plans and specifications if any, filed with the application, together with such modifications thereto as may be made or permitted by the District. Such agreement shall be binding upon the Applicant and the Owner and may be altered only by the District upon the Applicant's or Owner's written request for the alteration.

4.8 Inspection - All facilities proposed for acceptance into any part of the Sewer System must be inspected by the District, or by an Inspector acting for the District, to insure compliance with all requirements of the District. At least one (1) full working day notice of readiness for inspection shall be given for the required inspection.

4.9 Size and Location - The District reserves the right to determine the number and size of sewer laterals and their location with respect to any premises to be served. Building Sewers shall not be extended to a proposed point of connection until the point of connection has been determined and approved by the District. The District is not responsible, financially or otherwise, for the routing of the Building Sewer from the improvement to the connection, or for the location of the sewer connection in relationship to the property or its improvements.

4.10 Separate Connections Required - Each building shall be connected to the Sewer System through a separate connection. Where there are two or more dwellings, offices, units, etc. within a single building and owned by the same Owner, and the building is connected to the District Sewer Main through one (1) Building Sewer, that Building Sewer shall be no less than six (6) inches in diameter. The District, after reviewing the conditions, may specify the size of the Building Sewer and connection.

SECTION 4.0 - APPLICATION FOR SEWER SERVICE  
AND CONNECTION TO SEWER SYSTEM  
(continued)

4.11 Residential, Commercial, and Industrial Sewer Service Connection - It shall be unlawful to maintain a connection to the Sewer System except in conformity with the Uniform Plumbing Code, and the Districts Standards for Sanitary Sewers. When property provided with one (1) or more sewer connections is divided, each existing sewer connection shall be considered as belonging to the newly created lot or parcel of land which contains the building connected to the sewer. If any Building Sewer is not completely within the parcel it serves, the Owner must obtain and record any and all necessary easements for said Building Sewer.

4.12 Condemned Work - When any work subject to a Permit has been inspected and the work disapproved or condemned, and no certification of satisfactory completion given, a written notice to that effect will be given to the Applicant, instructing him to repair or remedy such work in accordance with the applicable District rules, regulations, or standards. When any work is disapproved or condemned, a re-inspection fee shall be applicable.

4.13 Liability for Costs - Both the Owner and the Person making the connection shall be liable to the District for all fees, Costs, and expenses incident to the installation and connection of any sewer or other work for which a Permit must be issued. The Owner and the Person making the connection shall indemnify the District for any loss or damage which may directly or indirectly be occasioned by their work.

4.14 Sewers Outside the District - Any lot or parcel of land, or portion thereof, outside of the District is prohibited from connecting to any portion of the Sewer System.

4.15 Sewer Service Feasibility Study - An Applicant wishing to connect a subdivision to the Public Sewer or to modify an existing system shall apply for a Feasibility Study as specified in Section 1.9.04 of the District Ordinance, and pay all applicable fees.

## SECTION 5.0 - USER/STANDBY CHARGES

5.1 User Charge - The Owner of each house, building, or property which is required to connect to the Public Sewer, as provided in Section 1.6.3 of the District Ordinance, shall be deemed a User, shall pay a User Charge whether or not such property is connected to the Public Sewer, shall pay a User Charge whether or not the improvement on that property is occupied or utilized, and shall pay that user charge specified in Section 5.2 hereof.

5.2 User Charge Classification - The user charges to be paid to the District by Users for sewer service within the boundaries of the District are hereby fixed as follows:

| <u>a. Residential:</u>                                                                  | <u>User Charge<br/>per month</u> |
|-----------------------------------------------------------------------------------------|----------------------------------|
| (1) Each single family dwelling on a lot*                                               | \$ 6.50                          |
| each additional living unit on same lot*                                                | \$ 6.50                          |
| (2) Each living unit in a duplex                                                        | \$ 6.50                          |
| (3) Each living unit in a motel building or multiple unit structure or group on one lot | \$ 6.50                          |

b. Commercial Industrial Users

The charge for all commercial and/or industrial users shall be seventy-five percent (75%) of the monthly water bill provided that all water used on the premises is from District facilities.

c. School:

Each school shall pay a sewer User Charge of two dollars (\$2.00) per monthly period during the school term for each one hundred (100) A.D.A., or part thereof, computed on the previous year's attendance.

5.3 User Contesting Classification - Users who are placed within a classification pursuant to Section 5.2 and who are dissatisfied with such classification may make a written request for a review of their classification in accordance with Section 1.12.10 of the District Ordinance.

SECTION 5.0 - USER/STANDBY CHARGES  
(continued)

5.4 User Charge Billing Period - Billing by the District for User Charges will be mailed to the Owner of the property at intervals fixed and established by the District.

5.5 Stand-by Charge - A charge of \$10.00 per year per acre and \$10.00 per year for any portion of a parcel exceeding one (1) acre and \$10.00 per year for parcels less than one (1) acre shall be charged to the Owner of all parcels within 200 feet of a sewer line and not connected to the Sewer System prior to July 1st of any year in which is levied. Delinquent Stand-by Charges may be added to the property tax bill and become a lien on the property.

## SECTION 6.0 - NOTICES

6.1 Notices to Owner or User - Notice from the District to an Owner or User will normally be given in writing and either delivered or mailed to the Owner's last known address. Where conditions warrant, and in emergencies, such notice may be given orally, by telephone or messenger.

6.2 Notices from Owner or User - Notice from the Owner or User to the District may be given in writing to the following places or persons.

- 6.2.01 Business office of the District.
- 6.2.02 Office of the District Manager.
- 6.2.03 Office of the Special Districts Director.

SECTION 7.0 - DISCONTINUANCE OF SERVICE

7.1 Service Refused or Discontinued - Sewer service may be refused or discontinued by the District as provided by Section 1.12.02 and 1.12.06 of the District Ordinance, for any one or more of the following reasons:

7.1.01. Unauthorized use of apparatuses or appliances which might endanger or disturb the service to other Users;

7.1.02. Non-compliance with this resolution or any other resolution, ordinance or regulation relating to the sewer service;

7.1.03. Protection of District facilities.

7.1.04. Delinquency of any fee or charge due the District by the Applicant or related to subject property.

7.2. Violation - In addition to discontinuation of sewer service, violation of District regulations or ordinances shall be a misdemeanor, as detailed in Section 1.13 of the District Ordinance.

## SECTION 8.0 - BILLING

8.1 Billing Period - The billing period shall be determined by the District.

8.2 User Charges - User Charges shall be due and payable at the Office of the District as noted in the billing statement (in person or by mail) on the date of mailing the bill to the Owner shown on the Application, and shall be delinquent 30 days thereafter. Service may be discontinued if payment is not made within 45 days of billing.

8.3 Rendering of Bills - Bills for User Charges shall be rendered in advance or arrears, at the determination of the District. Bills shall be payable upon presentation.

8.4 Billing of User Charge - Separate bills shall be rendered for each service connection.

8.5 Owner's Guarantee - The User Charge begins when the Building Sewer has been connected to the Sewer System and continues until the District has inspected and approved disconnection for the Building Sewer from the Sewer System. The Owner and the Applicant will be held jointly and severally liable for User Charges.

8.6 Owner-Tenant Agreement - Where the Owner leases his property and wishes to have the tenant billed for sewer service, a standard form provided by the District shall be completed and signed by the tenant and the Owner and returned to and approved by the District before becoming effective. Such an agreement does not relieve the Owner of the primary responsibility for paying User Charges.

8.7 Change of Ownership - Upon transfer of ownership of a property served by the District, the previous Owner is responsible for the payment of all User Charges due the District prior to the effective date of transfer, and the new Owner is responsible for all User Charges accruing after the effective transfer of ownership date.

## SECTION 9.0 - COLLECTION

9.1 Delinquent User Charges - Accounts not paid on or before the date in which they become delinquent will be subject to a penalty of ten percent (10%) effective upon the date of delinquency and thereafter subject to an interest charge of one half percent (0.5%) per month on the entire unpaid balance.

9.2 Suit Against Owner and Applicant - All unpaid fees, charges, and penalties herein provided may be collected by suit against the Owner or the Applicant, or both.

9.3 Costs of Suit - Defendant shall pay all costs of suit and a reasonable amount for attorney fees as fixed by the court in any judgment rendered in favor of the District.

9.4 Suit Against Property - Any and all bills rendered for User Charges, permit fees, connection fees, costs of suits, or any other debts owed the District shall be deemed to run with the property in addition to being the personal obligation of the Owner and the Applicant, and, at the option of the District, legal action may be taken, making any such debt a lien against the property.

9.5 Collection On Tax Roll - All User Charges, Permit Fees, Standby Charges, Connection Fees, and other fees or charges payable to the District may, at the option of the District, be added to the County Tax Roll for collection in accordance with procedures established by law.

## SECTION 10.0 - SCHEDULE OF FEES

### 10.1 Connection to Sewer System

10.1.01 Permit and Inspection Fee - For each connection of a Building Sewer to the Sewer System, there shall be a combined Permit and Inspection Fee of twenty-five dollars (\$25.00) due and payable at the time the Applicant applies for a Connection Permit.

Each time a connection has been inspected and the work is disapproved or condemned, a Re-inspection Fee of twenty-five dollars (\$25.00) must be paid by the Applicant to the District office prior to an Inspector re-inspecting any disapproved work.

10.1.02 Main Sewer Connection Charge - A Main Sewer Connection Charge shall be collected at the time the Applicant applies for a Connection Permit, in addition to all other fees herein set forth. The Main Sewer Connection Charge shall be determined by the District at the time of application for Connection Permit.

If a structure which is connected to the Sewer System is destroyed by fire, earthquake, or other natural disaster, or is demolished and removed from the property, and within one (1) year thereafter the Owner receives a Building Permit to construct a new structure on the property and completes such construction within the period initially provided by such Permit, there shall be no additional Main Sewer Connection Charge. If the Owner fails to obtain a Building Permit within one (1) year of the destruction or removal of the original structure (and fails to construct within the time stated in the Permit), the Owner shall pay the Main Sewer Connection Charge in effect at the time he obtains final inspection for the new structure.

10.1.03 Buy-in Charge - A property owner may be charged a "Buy-in" charge if the property is being or has been annexed to the District; was not assessed for the construction of the Public Sewer during Assessment District proceedings; or as otherwise necessary to pay for Public Sewer improvements which benefit the property.

SECTION 10.0 - SCHEDULE OF FEES  
(continued)

10.2     Plan Checking

10.2.01     Plan Checking Required - Plans for sewerage facilities to be designed and constructed by any Person other than District, where said facilities are to be conveyed to the District, shall submit the plans and specifications and all other documents required to the Special Districts Department for plan checking with the required plan checking fee as herein specified. The application for plan checking shall be made on the standard form furnished by the Special Districts Department.

10.2.02     Plan Check Fee Schedule

10.2.02.1 - Main line sewer length\* (includes manholes, cleanouts, tees) plus lateral length to the property line.

| <u>Quantity*</u> | <u>Checking Fee</u>                 |
|------------------|-------------------------------------|
| 1,000' or less   | \$300                               |
| 1,001' to 3,000' | \$300 plus \$0.20/ft. over 1,000'   |
| 3,001' to 5,000' | \$700 plus \$0.15/ft. over 3,000'   |
| 5,001' to 7,000' | \$1,000 plus \$0.10/ft. over 5,000' |
| 7,001' and up    | \$1,200 plus \$0.05/ft. over 7,000' |

10.2.02.2 -

Sewage treatment plants,  
sewage lift stations and  
specially designed sewer  
related facilities.

performed on a Cost basis;  
\$500 deposit required.

10.2.02.3 -

Rechecking: Rechecking of plans after plans have been approved, on behalf of County, due to design or quantity changes or modifications in specifications, will be performed on a Cost basis. Rechecking fee shall be paid prior to approval of changes.

10.2.02.4 -

In addition to the above fees, Special Districts Department will charge an application and processing fee in the amount of 5% of plan check fees with a minimum fee of \$25.00.

SECTION 10.0 - SCHEDULE OF FEES  
(continued)

10.3 Inspection Fees and Construction Permit

10.3.01 Inspection Required - Prior to the commencement of construction of sewage facilities for which plans have been approved, the Owner or his Agent shall make application for a Construction Permit to the Special Districts Department. The fees required for inspection shall accompany said application. The application for Construction Permit shall be made on the standard form furnished by the Special Districts Department.

In addition to the inspection fee listed below, the Owner or his Agent shall deposit with the Special Districts Department, along with said application, \$250 to cover the Cost of any reinspection, including time and mileage when a request is made by the Owner or his Agent for inspection and the work is not ready for inspection. The balance of any unused \$250 will be refunded at the time the work is accepted by the District. If the \$250 deposit is depleted before the work is completed, the Owner or his Agent shall deposit another \$250 with the Special Districts Department for this purpose before any more inspection will be performed by the District Representative.

10.3.02 Inspection Fee Schedule

10.3.02.1 - Main line sewer length\* (includes manholes, cleanouts, tees) plus lateral length to the property line.

| <u>Quantity*</u> | <u>Required<br/>Inspection Fee Deposit<br/>(performed on an actual<br/>cost incurred basis)</u> |
|------------------|-------------------------------------------------------------------------------------------------|
| 1' to 200'       | \$300                                                                                           |
| 201' to 1,000'   | \$400                                                                                           |
| Over 1,000'      | \$400 plus \$.40 per foot or<br>portion thereof over 1000'                                      |

10.3.02.2 -  
Sewage lift station, \$700  
sewage treatment plants  
and specially designed sewer  
related facilities.

10.3.02.3 -  
In addition to the above fees, Special Districts Department will charge an application processing fee of 5% of the total inspection fees with a minimum fee of \$25.00.

SECTION 10.0 - SCHEDULE OF FEES  
(continued)

10.3.02.4 - Saturday, Holiday and Overtime Inspection: Inspection for work on Saturday and holidays will be provided if Inspectors are available and a minimum of one week advance notification is given to the District by the Owner or his Agent. All Costs for Saturday, holiday and overtime inspection shall be paid by the Owner or his Agent at the actual Cost incurred. Advance deposit is required.

SECTION 11.0 - CRITERIA FOR DESIGN,  
TECHNICAL SPECIFICATIONS AND STANDARD DRAWINGS

11.1 Adoption - Criteria for design, technical specifications and standard drawings for the construction of Public Sewer Facilities shall be recommended by the District Engineer and approved by the Board of Supervisors. All approved criteria will be on file in the office of the District.

SECTION 12.0 - REPEAL OF PRIOR PROVISIONS

12.1 Repeal of Prior Provisions - In accordance with Section 5.0 of Ordinance No. SD 80-9 of the District, all rules, resolutions, and schedules of fees and charges now or heretofore in effect within the District which apply to the same subject matter as contained herein shall be of no further force or effect from and after the date of adoption of this Resolution.

-----  
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PASSED AND ADOPTED by the Board of Supervisors of  
San Bernardino County, State of California, by the following vote:

AYES: Joyner, McKenna, Townsend, Hammock, McElwain

NOES: None

ABSENT: None

STATE OF CALIFORNIA        )  
                                  )   ss.  
COUNTY OF SAN BERNARDINO )

I, ANDREE DISHAROON, Clerk of the Board of Supervisors of San Bernardino County, California, hereby certify the foregoing to be a full, true and correct copy of the record of the action as the same appears in the Official Minutes of said Board at its meeting of January 24, 1983.

ANDREE DISHAROON, Clerk of the Board  
of Supervisors of San Bernardino County

By

Barlene Sprout  
Deputy

January 24, 1983

*[Signature]*  
 FROM: VERNON KNOUREK, Director  
 SPECIAL DISTRICTS DEPARTMENT

SUBJECT: COUNTY SERVICE AREA 42 AND COUNTY SERVICE AREA 64  
 RESOLUTIONS ESTABLISHING RULES AND REGULATIONS  
 FOR SEWER SERVICE

RECOMMENDATION: Adopt Resolution No. 83-21 establishing the Rule  
 and Regulations for Sewer Service for County Service Area 42.

Adopt Resolution No. 83-22 establishing the Rule  
 and Regulations for Sewer Service for County Service Area 64.

BACKGROUND: The current Rules and Regulations for Sewer Service  
 for County Service Areas 42 and 64 were adopted by the Board  
 in 1972, and many portions are outdated. For the past year  
 the Special Districts Department, the District Manager, and  
 the District Engineer have been reviewing, updating and  
 standardizing the Rules and Regulations so they may adequately  
 address the current needs of County Service Areas 42 and 64.

The proposed Rules and Regulations will: state that a Person  
 damaging the Districts' Systems is guilty of a misdemeanor  
 (Section 1.6); state the procedure for testing a Building  
 Sewer Connection (Section 3.5); specify the requirements for  
 Grease and Sand Interceptors (Section 3.8.03); state the  
 procedure for making Application for Sewer Service and the  
 responsibility of the Owner (Sections 4.1-4.3); clarify the  
 Districts' requirement for separate connections (Section  
 4.10); state the Districts' policy for billing, delinquency,  
 collection, costs of suit, change of ownership, and the  
 Owner's responsibility regarding User Charges (Sections 8.1-  
 8.7); clarify the Districts' requirement for Inspection Fees  
 (Section 10.1.01); state the Districts' policy regarding a  
 building (served by a District) which is destroyed or  
 demolished and rebuilt (Section 10.1.02); and state the  
 Districts' requirements for a Buy-in Charge (Section 10.1.04).

Page 1 of 2

cc: EPWA  
Spec. Dist. w/res  
 CSA 42 w/res  
 CSA 64 w/res  
 File w/res

Action of the Board of Supervisors  
 RESOLUTIONS 83-21 & 83-22

**APPROVED** BOARD OF SUPERVISORS  
 COUNTY OF SAN BERNARDINO

| MOTION | X | X | X | S | N |
|--------|---|---|---|---|---|
|        | 1 | 2 | 3 | 4 | 5 |

ANDREE DISHAROON, CLERK OF THE BOARD

BY *[Signature]*

DATED: JAN 24 1983

January 24, 1983

AGENDA ITEM

SUBJECT: COUNTY SERVICE AREA 42 AND COUNTY SERVICE AREA 64  
RESOLUTIONS ESTABLISHING RULES AND REGULATIONS  
FOR SEWER SERVICE

CHANGE OF FEES: The proposed Rules and Regulations establish all fees at the same level as currently adopted by the Board.

REASON FOR RECOMMENDATION: The Board's adoption of the proposed resolutions is needed to assure the Districts' authority to properly regulate the use and construction of the County Service Area 42 and 64 Public Sewer Systems.

COORDINATION WITH OTHER DEPARTMENTS: The proposed Resolutions have been reviewed by Environmental Health Services, Planning, and Building and Safety.

County Counsel, Ed Duddy, has reviewed and approved the Resolutions.

RECOMMENDED FOR BOARD APPROVAL:

  
JACK E. PEDDY, EPWA Administrator

Michael Perry/3706

## **APPENDIX B: CSA 64 COMMUNITY MAP**



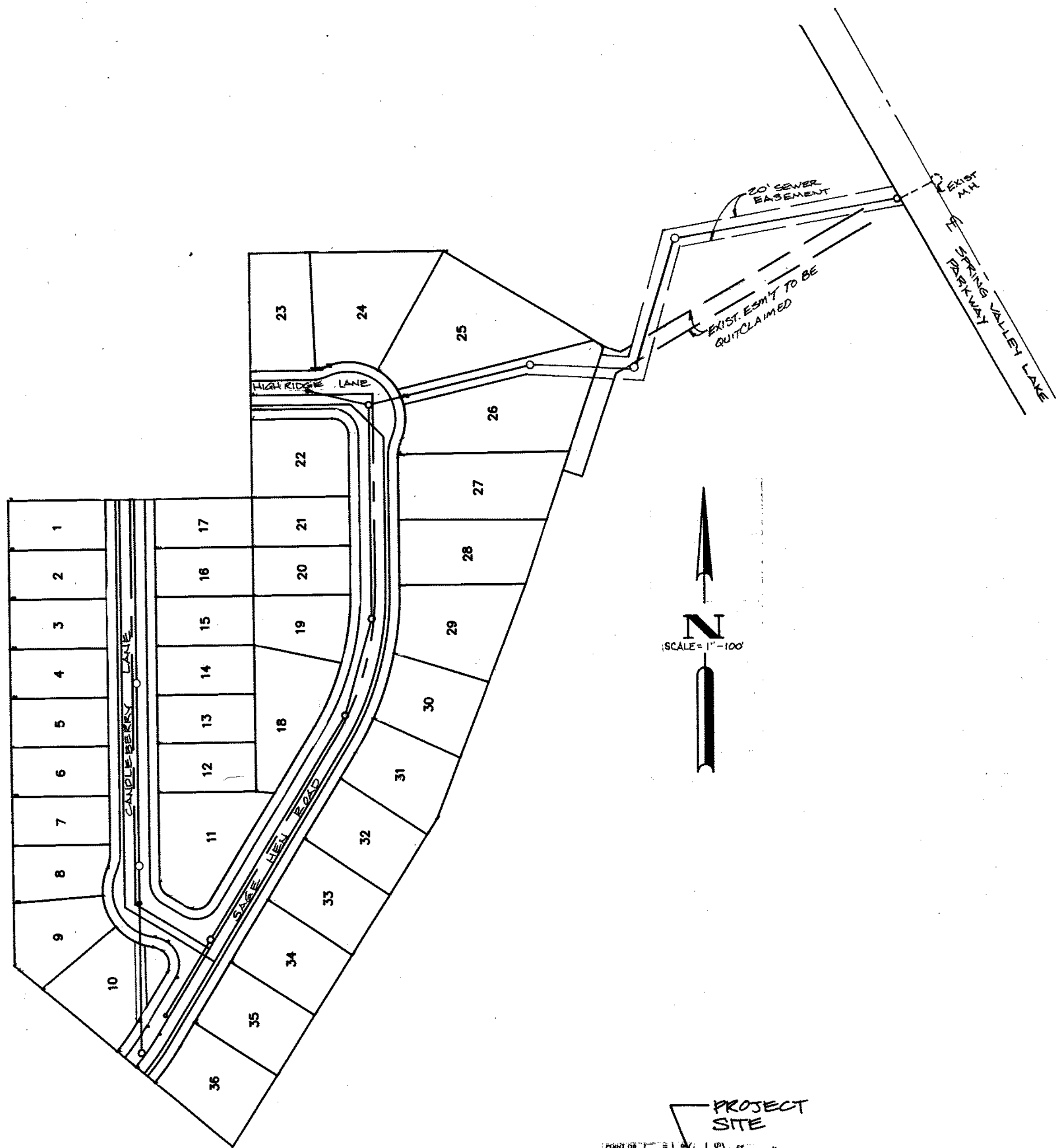
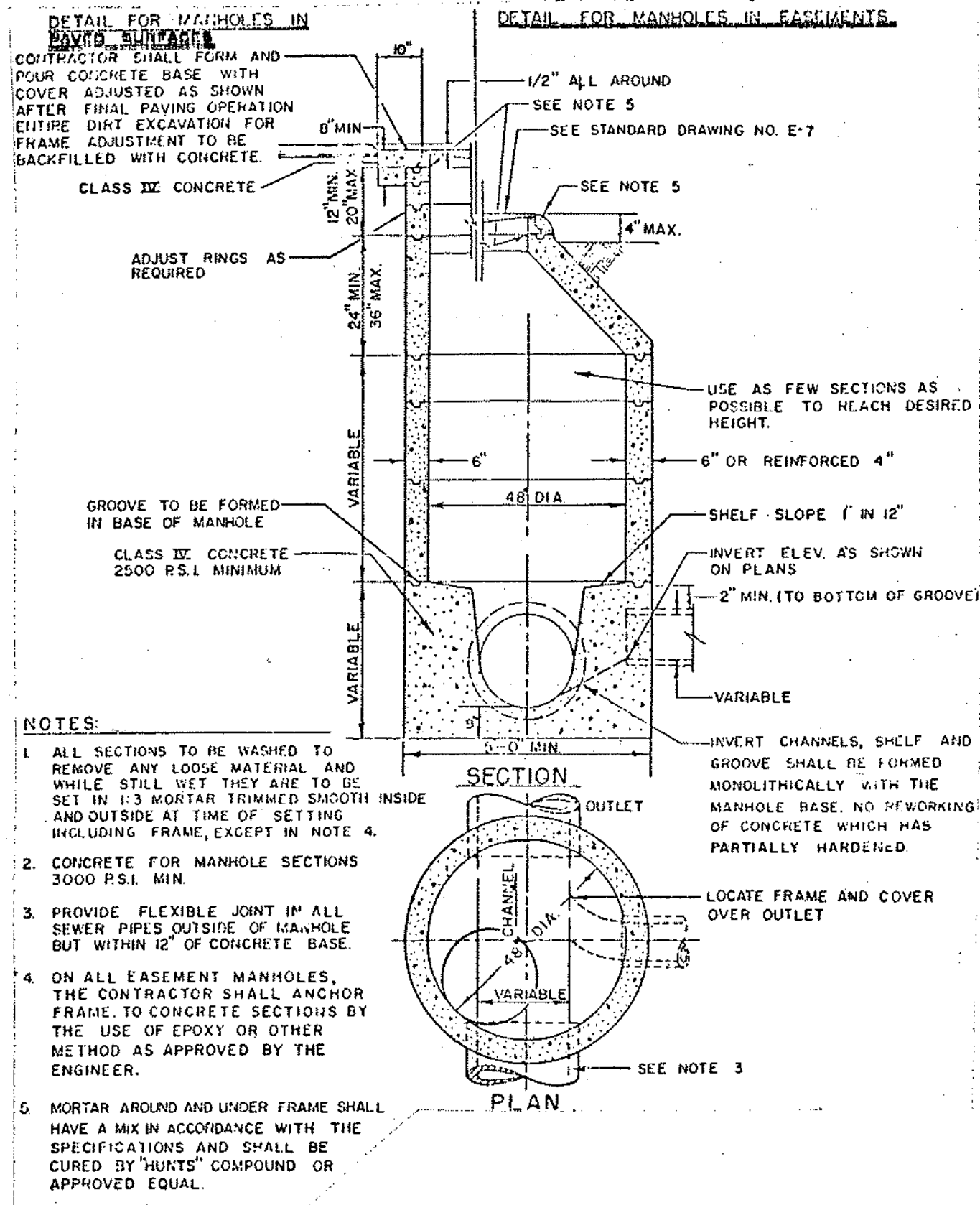
## APPENDIX B:



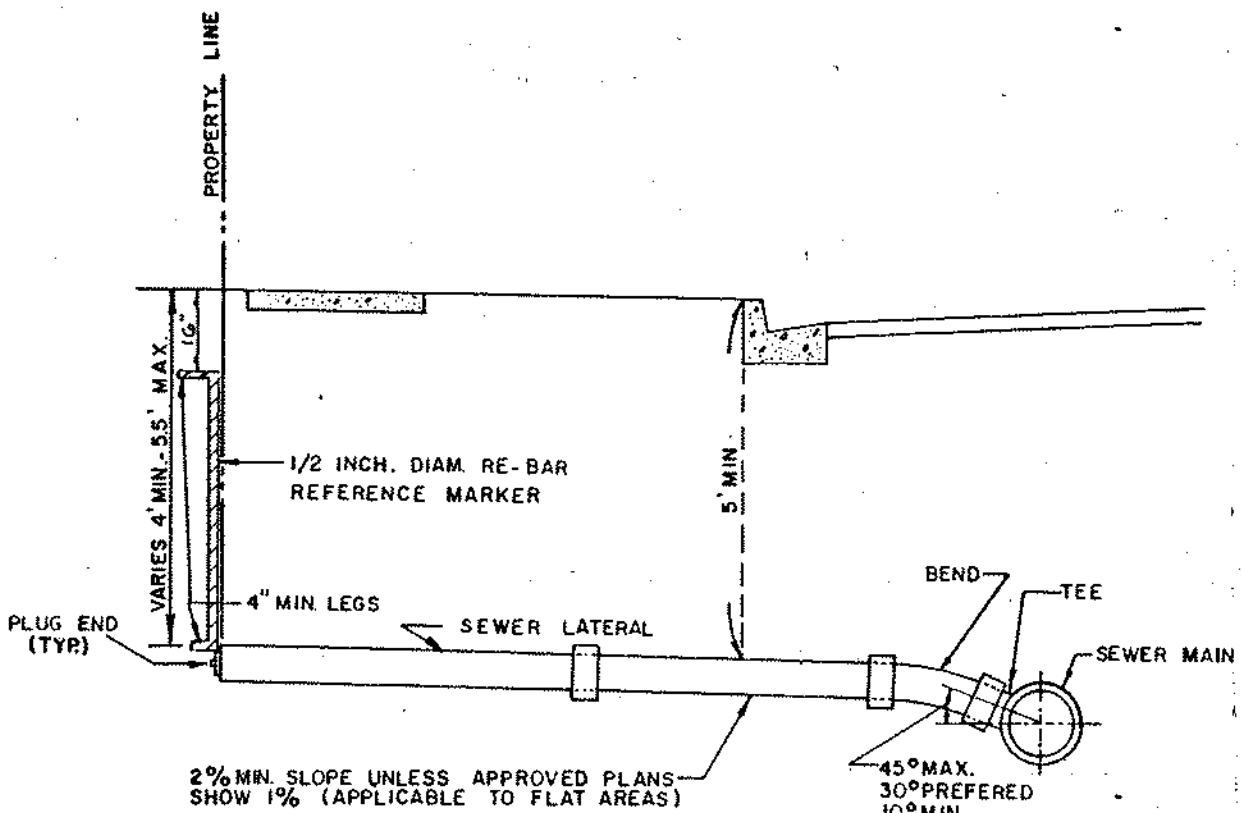
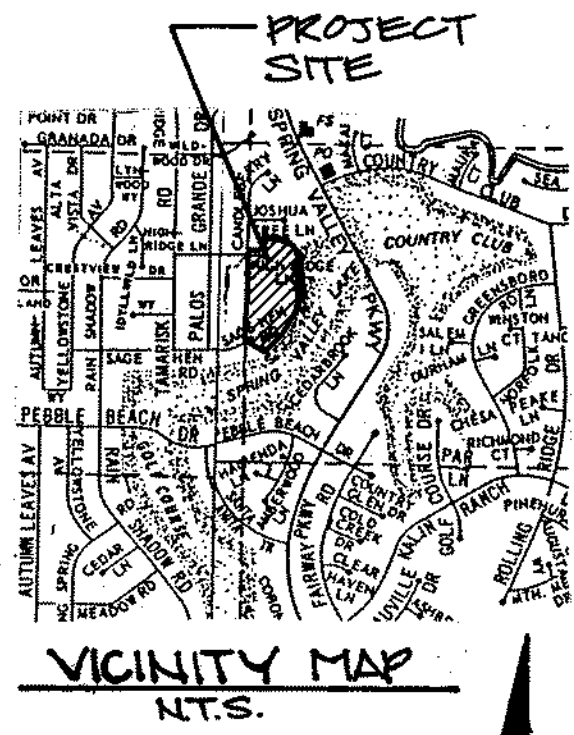
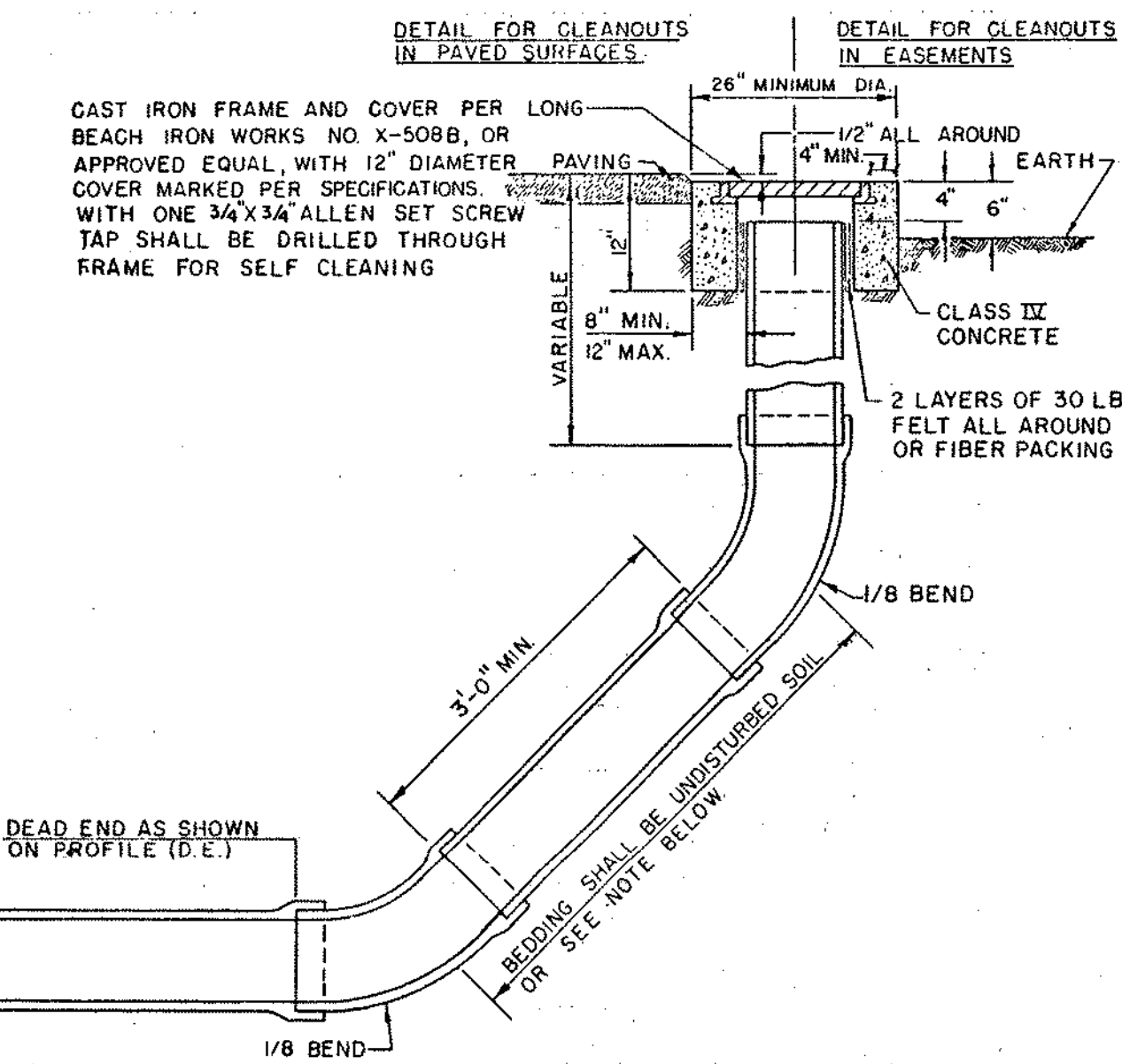
# APPENDIX C: CSA 64 SEWER TRACT MAP



# SEWER PLAN



- SEWER NOTES**
- ALL WORK WILL BE DONE IN ACCORDANCE WITH THE COUNTY SERVICE AREA TO STANDARD SPECIFICATIONS.
  - THE LOCATION OF ANY AND ALL UNDERGROUND UTILITIES MAY OR MAY NOT BE SHOWN ON THESE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE JOB SITE AND ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL AT HIS OWN EXPENSE AND COST CONSTRUCT ALL IMPROVEMENTS IN SUCH A MANNER AS TO PROTECT ALL UNDERGROUND UTILITIES. THE ENGINEER WILL NOT BE RESPONSIBLE FOR DAMAGE TO ANY UNDERGROUND UTILITY.
  - A CERTIFICATE OF COMPACTION SIGNED BY A REGISTERED CIVIL ENGINEER SHALL BE SUBMITTED FOR ALL TRENCH BACK-FILLS.
  - ADEQUATE STAKES SHALL BE SET BY THE ENGINEER TO ENABLE THE CONTRACTOR TO CONSTRUCT THE WORK TO PLAN AND GRADE.
  - FINISH GRADES OF MANHOLE RIMS SHALL BE ADJUSTED TO MATCH THE GRADE AND SLOPE OF A.C. PAVING.
  - NOTIFY UNDERGROUND SERVICE ALERT @ 1-800-422-4133, 48 HOURS PRIOR TO BEGINNING WORK.



- NOTES:**
- 4" PIPE FOR SINGLE DWELLINGS, 6" MIN FOR ALL OTHER LATERALS.
  - LATERAL LOCATIONS SHALL BE MEASURED AT RIGHT ANGLES TO STREET CENTERLINE FROM THE CENTERLINE OF THE NEAREST DOWNSTREAM MANHOLE COVER.
  - WHENEVER DEPTH OF COVER OVER LATERAL IS LESS THAN 4'-0", SPECIAL BEDDING OR CONCRETE CRADLE PER STANDARD DRAWING NO. E-2 SHALL BE USED.
  - CONTRACTOR SHALL REFERENCE EACH LATERAL IN THE FIELD WITH A REFERENCE MARKER WHICH SHALL BE PLACED AT TIME OF BACKFILLING. MARKER SHALL BE VERTICAL.
  - MAXIMUM LENGTH OF PIPE SECTIONS SHALL NOT EXCEED 6'-6".

**AS BUILT**

**SEWER IMPROVEMENT PLANS**

**TITLE SHEET**

**TRACT 14087 APN 481-051-11**

**FOR: INVEC INTERNATIONAL, INC.**

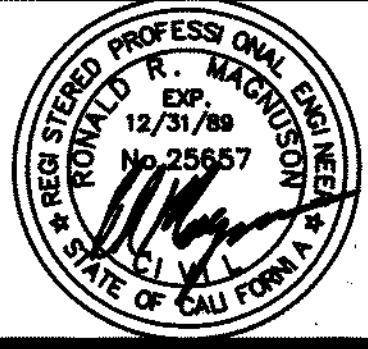
**W.O. NO.**

**88.0905**

**LIMITS**

**SHEET 1 of 4**

**FILE #2061**



**INLAND ENGINEERING, CORP.**

14350 Chic Dr., Suite 260  
Victorville, CA 92392

(619)241-0595

| MARK | REVISION | APPR | DATE |
|------|----------|------|------|
|      |          |      |      |
|      |          |      |      |
|      |          |      |      |
|      |          |      |      |
|      |          |      |      |

**C.S.A. 64**

COUNTY OF SAN BERNARDINO

DESIGNED BY: S.W. DRAWN BY: S.J.S.

CHECKED BY: J.A.B. DATE: 6-14-98

RECOMMENDED BY: DATE: 6-21-98

APPROVED BY: DATE: 6-21-98

DISTRICT ENGINEER: C.21651

**SEWER IMPROVEMENT PLANS**

**TITLE SHEET**

**TRACT 14087 APN 481-051-11**

**FOR: INVEC INTERNATIONAL, INC.**

**W.O. NO. 88.0905**

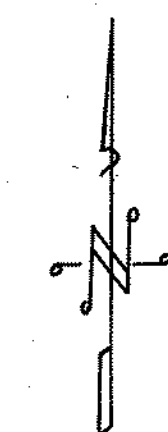
**LIMITS**

**SHEET 1 of 4**

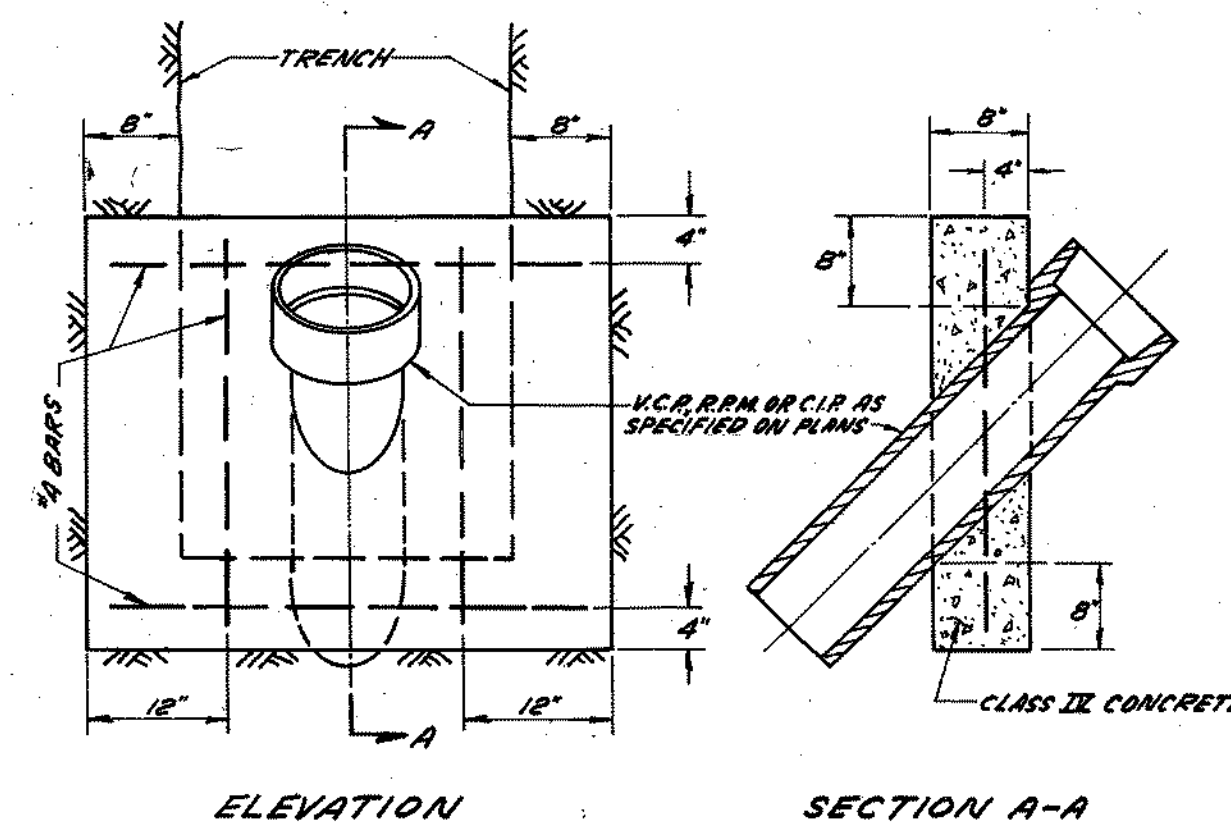
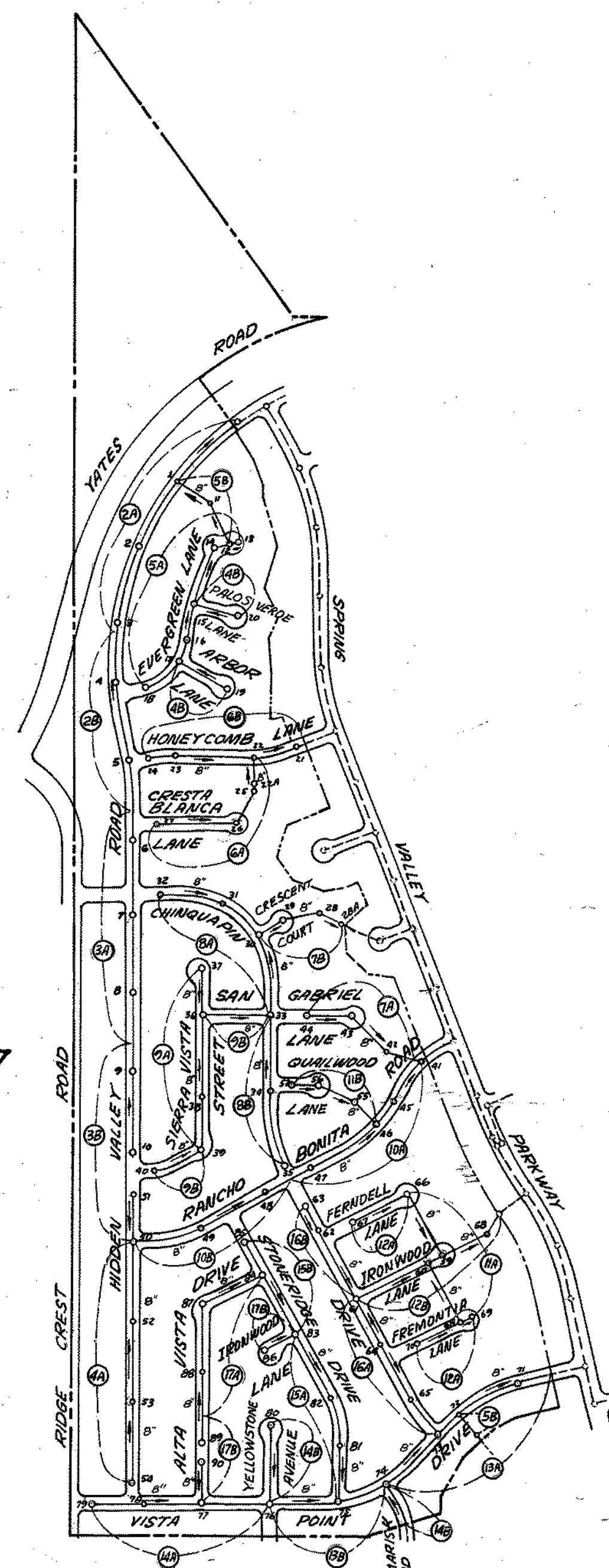
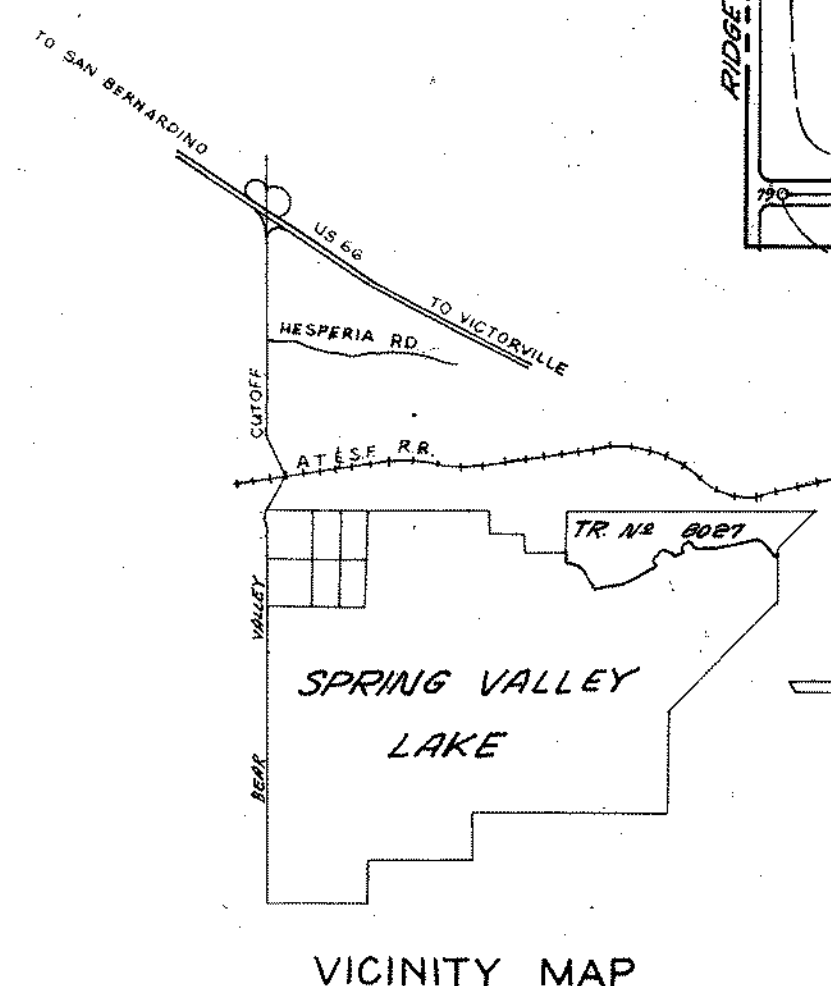
**FILE #2061**

BM(USC#65)M41 ELEV. 2983.144  
0.3 MILE SOUTH OF INT. BEAR VALLEY  
RD. AND AT 1/2 SF. R.R. 442 WEST  
OF WIRAIL OF W/IRACK, 11' SOUTH  
OF TEL. POLE 416E41.

NOTE:  
NUMBERS IN CIRCLES  
INDICATE PAGE NUMBERS



INDEX MAP  
TRACT N° 8027



DETAIL OF CONCRETE ANCHOR BLOCK  
NO SCALE

- AS BUILT NOTES**
1. HOUSE LATERALS ARE MEASURED FROM THE NEAREST DOWN STREAM MANHOLE EXCEPT WHERE NOTED.
  2. HOUSE LATERALS ARE 6.0' DEEP AT PROPERTY LINE MEASURED FROM TOP OF CURB, UNLESS OTHERWISE NOTED IN PARENTHESIS (5.0').

#### NOTES

1. The accuracy of the location of or the existence or non-existence of any utility pipe or structure within the limits of this project does not constitute responsibility by the engineer.
2. All work shall conform to specifications and requirements of San Bernardino County Service Area No. 64.
3. The contractor shall be responsible for coordinating his operations with other contractors and utility companies in the construction area.
4. The contractor shall notify the county service area, engineer, and inspector one week in advance of when he plans to start construction. At that time or any such time prior to that as may be specified by the engineer, the contractor shall submit a schedule of his work showing principal operations and their estimated starting dates. When inspections or engineering judgements become necessary as set forth in the specifications, the contractor shall give at least twenty-four (24) hours notice to the county service area and engineer.
5. No revisions shall be made in these plans without the approval of County Service Area No. 64.
6. Pipe may be vitrified clay pipe (V.C.P.) or reinforced plastic mortar (R.P.M.) conforming to County Service Area No. 64 standard specifications.
7. Maximum pipe lengths and minimum radii for curved sections of sewer shall be:

| V.C.P. - DIA. | LENGTH | RADIUS | R.P.M. - DIA. | LENGTH | RADIUS |
|---------------|--------|--------|---------------|--------|--------|
| 8"            | 5'     | 125'   | 8"            | 10'    | 125'   |
| 10"           | 5'     | 125'   | 10"           | 10'    | 125'   |
| 12"           | 5'     | 125'   | 12"           | 10'    | 125'   |
| 15"           | 6'     | 172'   | 15"           | 10'    | 125'   |
| 18"           | 6'     | 172'   | 18"           | 10'    | 145'   |
| 21"           | 6'     | 172'   | 21"           | 10'    | 145'   |
| 24"           | 6'     | 172'   | 24"           | 10'    | 145'   |
8. Manholes shall be precast concrete per specifications and standard drawings.
9. Contractor shall adjust all manholes in street to finished grade upon completion of paving.
10. "Y" or "T" branches shall be used for connection to main line sewer unless otherwise noted.
11. House laterals to be constructed with inverts at property line six (6.0) feet below curb grade to conform with maximum cover shown on standard drawing No. S 106, except as noted.
  - a) Where house lateral is shown thus, "2 + 20, Y-10", 2.00%, it means the lateral shall be constructed at or downstream of that station, with the "Y" laid at 10' and the minimum slope of 2.00% to the property line.
  - b) Where depth is shown, it shall be the invert depth at the property line below curb grade in streets or the finished surface in easements. (H.L.-6')
  - c) Where an elevation is shown, it shall be the invert elevation at the property line. (H.L. 2850.5)
12. All main line and house lateral sewers crossing under water lines shall comply with standard drawing S100. If encasement is used, it shall comply with standard drawing S104. If cast iron pipe is used, the joint between the cast iron pipe and vitrified clay pipe shall be made with a Calder Coupling or approved equal.
13. Alternate method of chimneys per standard drawing S107 may be used where chimneys are shown; where main line sewer is ten (10) feet or more in depth; or where ground water is present unless otherwise noted.

NICK CARO  
Construction Manager  
Boise Cascade  
Spring Valley Lake

**AS BUILT**  
DATE 8/14/70  
BY Nick Caro

NOTE  
EASEMENTS AND FACILITIES CONVEYED TO COUNTY  
SERVICE AREA NO. 64 BY DOCUMENTS RECORDED  
IN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_, O.R.

| N°                                                                                                        | DATE                               | APPROVED                                                                                                  | DESCRIPTION OF REVISION |
|-----------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------|
| COUNTY SERVICE AREA N° 64                                                                                 |                                    |                                                                                                           |                         |
| SANITARY SEWERS<br>IN<br>TRACT N° 8027                                                                    |                                    |                                                                                                           |                         |
| COUNTY APPROVAL<br>Name <i>William Colburn</i> Date <i>8/14/70</i><br>Title DIRECTOR OF BUILDING SERVICES |                                    | DISTRICT ENGINEER APPROVAL<br>Name <i>William A. White</i> Date <i>8/14/70</i><br>Title DISTRICT ENGINEER |                         |
| DESIGNED<br><i>AG</i>                                                                                     | APPROVED<br><i>William Colburn</i> | JOB N° 4695                                                                                               |                         |
| DRAWN<br><i>R.G.</i>                                                                                      | CHECKED<br><i>N.M.</i>             | DATE <i>8/14/70</i>                                                                                       | SHEET 1 OF 17           |
| SCALE: HORIZ. 1" = 40' VERT. 1" = 8' ALL SHEETS                                                           |                                    |                                                                                                           |                         |

0.3 MILE SOUTH OF INT. BEAR VALLEY  
RD. AND A.T. & S.F. R.R. 442' WEST  
OF W/RAIL OF W/TRACK, 11' SOUTH  
OF TEL. POLE 416E41

## NOTES

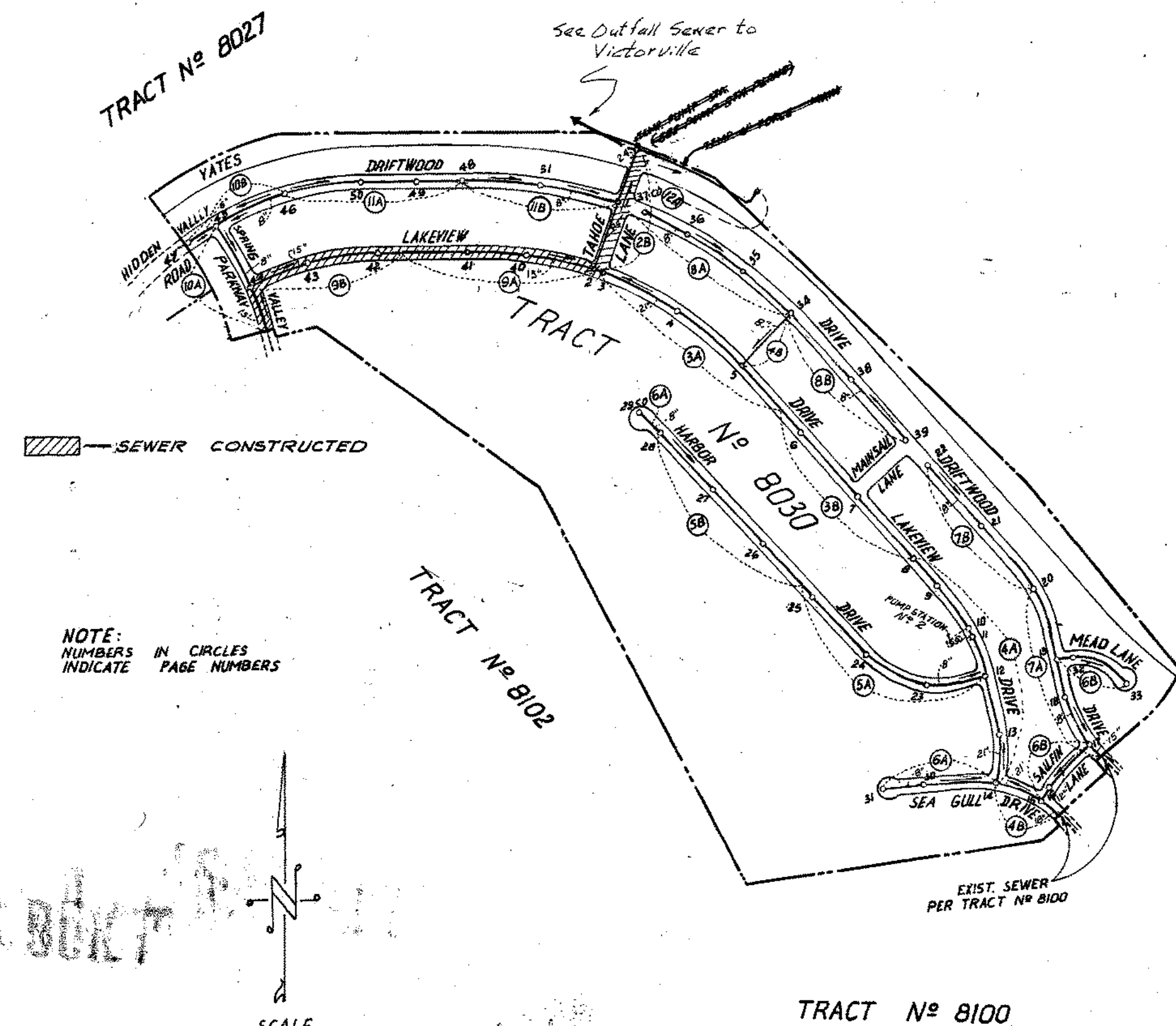
1. The accuracy of the location of or the existence or non-existence of any utility pipe or structure within the limits of this project does not constitute responsibility by the engineer.
2. All work shall conform to specifications and requirements of San Bernardino County Service Area No. 64.
3. The contractor shall be responsible for coordinating his' operations with other contractors and utility companies in the construction area.
4. The contractor shall notify the county service area, engineer, and inspector one week in advance of when he plans to start construction. At that time or any such time prior to that as may be specified by the engineer, the contractor shall submit a schedule of his work showing principal operations and their estimated starting dates. When inspections or engineering judgements become necessary as set forth in the specifications, the contractor shall give at least twenty-four (24) hours notice to the county service area and engineer.
5. No revisions shall be made in these plans without the approval of County Service Area No. 64.
6. Pipe may be vitrified clay pipe (V.C.P.) or reinforced plastic mortar (R.P.M.) conforming to County Service Area No. 64 standard specifications.

| V.C.P. - | DIA. | LENGTH | RADIUS | R.P.M. -DIA. | LENGTH | RADIUS |
|----------|------|--------|--------|--------------|--------|--------|
|          | 8"   | 5'     | 125'   | 8"           | 10'    | 125'   |
|          | 10"  | 5'     | 125'   | 10"          | 10'    | 125'   |
|          | 12"  | 5'     | 125'   | 12"          | 10'    | 125'   |
|          | 15"  | 6'     | 172'   | 15"          | 10'    | 145'   |
|          | 18"  | 6'     | 172'   | 18"          | 10'    | 145'   |
|          | 21"  | 6'     | 172'   | 21"          | 10'    | 145'   |
|          | 24"  | 6'     | 172'   | 24"          | 10'    | 145'   |

8. Manholes shall be precast concrete per specifications and standard drawings.
9. Contractor shall adjust all manholes in street to finished grade upon completion of paving.
10. "Y" or "T" branches shall be used for connection to main line sewer unless otherwise noted.
11. House laterals to be constructed with inverts at property line six (6.0) feet below curb grade to conform with minimum cover shown on standard drawing No. S106, except as noted:
  - a) Where house lateral is shown thus, "2 + 20, Y-10<sup>0</sup>, 2.00%", it means the lateral shall be constructed at or downstream of that station, with the "Y" laid at 10' and the minimum slope of 2.00% to the property line.
  - b) Where depth is shown, it shall be the invert depth at the property line below curb grade in streets or the finished surface in easements. (H.L.-6')
  - c) Where an elevation is shown, it shall be the invert elevation at the property line. (H.L. 2850.5)
12. All main line and house lateral sewers crossing under water lines shall comply with standard drawing S100. If encasement is used, it shall comply with standard drawing S104. If cast iron pipe is used, the joint between the cast iron pipe and vitrified clay pipe shall be made with a Calder Coupling or approved equal.
13. Alternate method of chimneys per standard drawing S107 may be used where chimneys are shown; where main line sewer is ten (10) feet or more in depth; or where ground water is present unless otherwise noted.

12/11/77

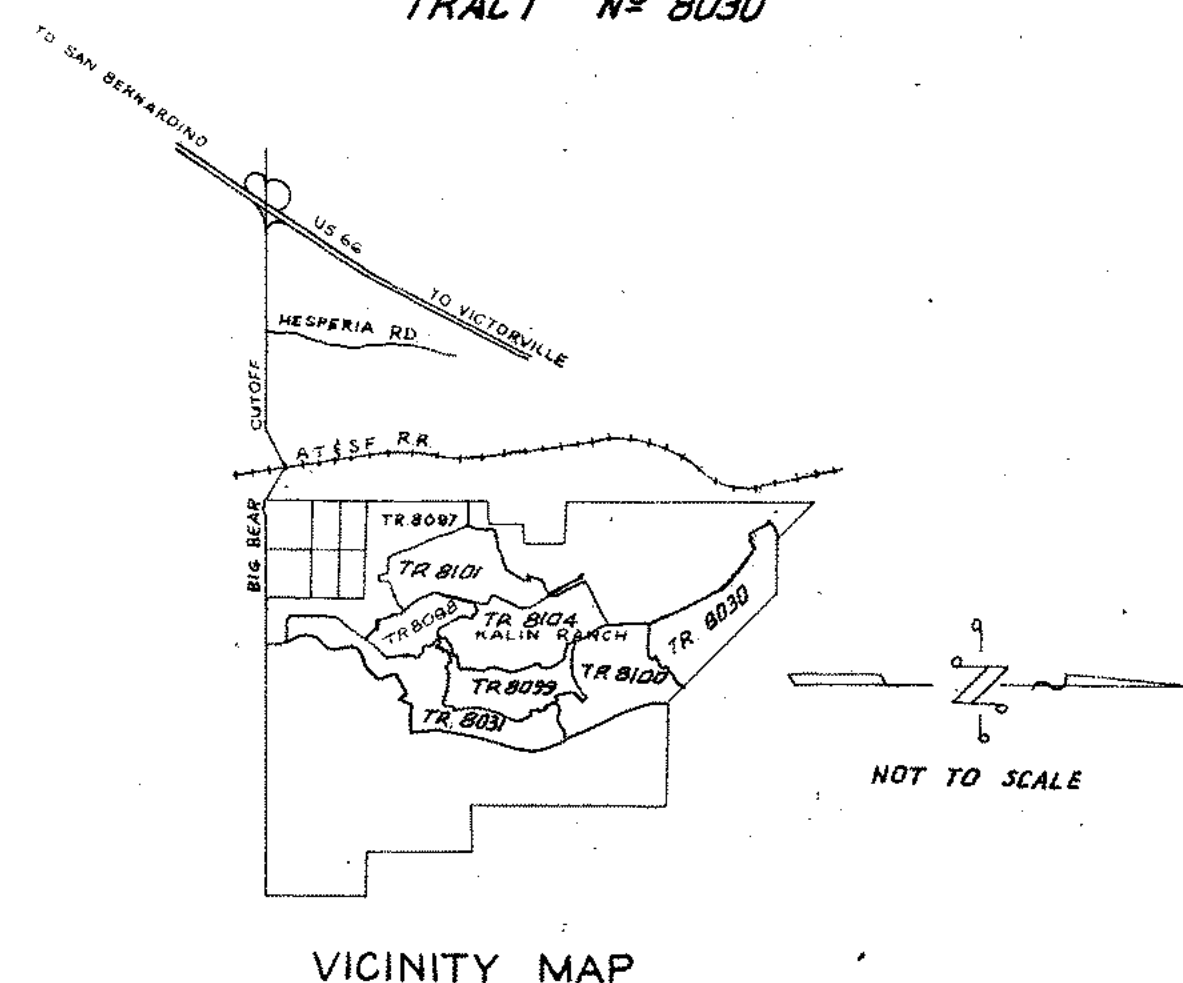
2011



NOTE:  
NUMBERS IN CIRCLES  
INDICATE PAGE NUMBERS

SCALE  
1" = 500'

INDEX MAP  
TRACT N<sup>o</sup> 8030



VICINITY MAP

NOT TO SCALE

100-443886-100

APPROVED FOR CONSTRUCTION

## AS BUILT

DATE APR 5 1973  
BY Rich Caro

*AS BUILT*

AS BUILT NOTES

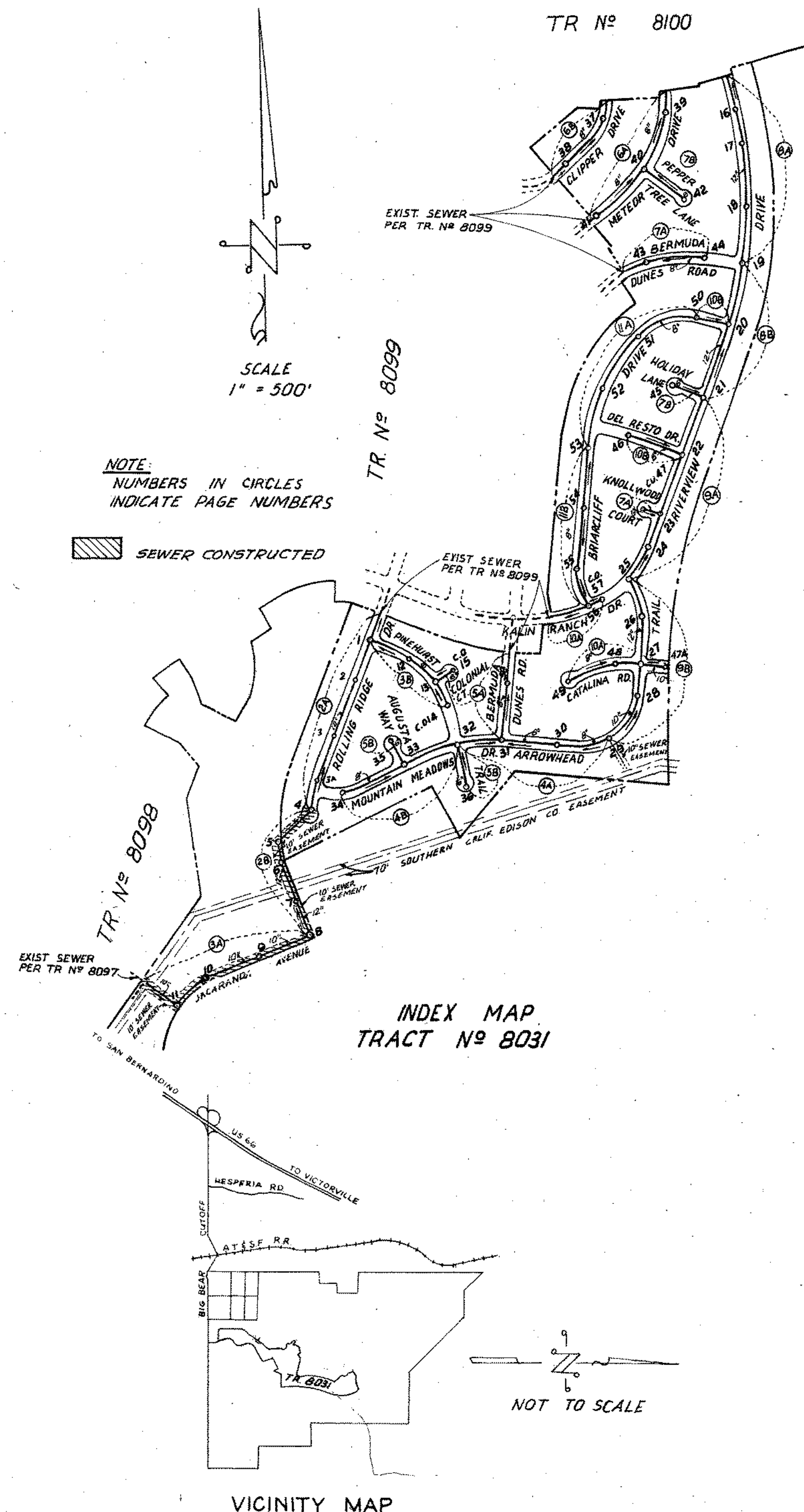
1. HOUSE LATERALS ARE MEASURED FROM THE NEAREST DOWN STREAM MANHOLE EXCEPT WHERE NOTED.
2. HOUSE LATERALS ARE 60± DEEP AT PROPERTY LINE MEASURED FROM TOP OF CURB UNLESS OTHERWISE NOTED IN PARENTHESIS. (56±)

**NOTE**

EASEMENTS AND FACILITIES CONVEYED TO COUNTY  
SERVICE AREA NO. 64 BY DOCUMENTS RECORDED  
IN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_, O.R.

|                             |                          |          |                               |         |                           |                 |        |                   |  |
|-----------------------------|--------------------------|----------|-------------------------------|---------|---------------------------|-----------------|--------|-------------------|--|
| △                           | 5-7-71                   | Man      | SHEET 4                       | 5/12/71 |                           |                 |        |                   |  |
| △                           | 1-22-71                  | Man      | SHEETS 2 & 6; 11 & 12         |         |                           |                 |        |                   |  |
| △                           | 8-26-70                  | Man      | SHEET 12                      |         |                           |                 |        |                   |  |
| △                           | 7-20-70                  | Man      | SHEETS 2 & 12                 |         |                           |                 |        |                   |  |
| Nº                          | DATE                     | APPROVED | DESCRIPTION OF REVISION       |         |                           |                 |        |                   |  |
| COUNTY SERVICE AREA Nº 64   |                          |          |                               |         |                           |                 |        |                   |  |
| SANITARY SEWERS             |                          |          |                               |         |                           |                 |        |                   |  |
| IN                          |                          |          |                               |         |                           |                 |        |                   |  |
| TRACT Nº 8030               |                          |          |                               |         |                           |                 |        |                   |  |
| COUNTY APPROVAL             |                          |          | DISTRICT L.S.G. NEER APPROVAL |         |                           |                 |        |                   |  |
| Name                        | <i>W. J. [Signature]</i> | Date     | 9/1/70                        | Name    | <i>Wm. A. [Signature]</i> | Date            | 9/1/70 |                   |  |
| Title                       |                          |          | DIRECTOR OF BUILDING SERVICES |         | Title                     |                 |        | DISTRICT ENGINEER |  |
| DESIGNED <i>S.D.</i>        |                          |          | APPROVED <i>[Signature]</i>   |         |                           | JOB Nº 4695     |        |                   |  |
| DRAWN <i>P.T.C.-J.B.-AM</i> |                          |          |                               |         |                           | SHEET           |        |                   |  |
| CHECKED <i>N.M.</i>         |                          |          | CALIF. R.C.E. 14297           |         |                           | DATE 1-30-70    |        |                   |  |
| SCALE                       |                          |          | VERT. 1" = 30'                |         |                           | HORIZ. 1" = 30' |        |                   |  |
|                             |                          |          |                               |         |                           | 1 OF 12         |        |                   |  |

BM (USC 65) M41 ELEV. 2983.44  
0.3 MILE SOUTH OF INT. BEAR VALLEY  
RD AND AT 1/2 SE. R.R. 442 WEST  
OF W/RAIL OF W/TRACK, 11' SOUTH  
OF TEL. POLE 41641.



NOTE:  
NUMBERS IN CIRCLES  
INDICATE PAGE NUMBERS

SEWER CONSTRUCTED

INDEX MAP  
TRACT N° 8031

VICINITY MAP

NOT TO SCALE

- AS BUILT NOTES**
1. HOUSE LATERALS ARE MEASURED FROM THE NEAREST DOWN STREAM MANHOLE EXCEPT WHERE NOTED.
  2. HOUSE LATERALS ARE 6" DEEP AT PROPERTY LINE MEASURED FROM TOP OF CURB UNLESS OTHERWISE NOTED IN PARENTHESES. (5.6')

**NOTE**  
EASEMENTS AND FACILITIES CONVEYED TO COUNTY  
SERVICE AREA NO. 64 BY DOCUMENTS RECORDED  
IN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_, O.R.

APPROVED FOR CONSTRUCTION

#### NOTES

1. The accuracy of the location of or the existence or non-existence of any utility pipe or structure within the limits of this project does not constitute responsibility by the engineer.
2. All work shall conform to specifications and requirements of San Bernardino County Service Area No. 64.
3. The contractor shall be responsible for coordinating his operations with other contractors and utility companies in the construction area.
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7. Maximum pipe lengths and minimum radii for curved sections of sewer shall be:

| V.C.P. - DIA. | LENGTH | RADIUS | R.P.M. - DIA. | LENGTH | RADIUS |
|---------------|--------|--------|---------------|--------|--------|
| 8"            | 5'     | 125'   | 8"            | 10'    | 125'   |
| 10"           | 5'     | 125'   | 10"           | 10'    | 125'   |
| 12"           | 5'     | 125'   | 12"           | 10'    | 125'   |
| 15"           | 6'     | 172'   | 15"           | 10'    | 145'   |
| 18"           | 6'     | 172'   | 18"           | 10'    | 145'   |
| 21"           | 6'     | 172'   | 21"           | 10'    | 145'   |
| 24"           | 6'     | 172'   | 24"           | 10'    | 145'   |
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  - a) Where house lateral is shown thus, "2 + 20, Y-10", 2.00%, it means the lateral shall be constructed at or downstream of that station, with the "Y" laid at 10' and the minimum slope of 2.00% to the property line.
  - b) Where depth is shown, it shall be the invert depth at the property line below curb grade in streets or the finished surface in easements. (H.L.-6')
  - c) Where an elevation is shown, it shall be the invert elevation at the property line. (H.L. 2850.5)
12. All main line and house lateral sewers crossing under water lines shall comply with standard drawing S100. If encasement is used, it shall comply with standard drawing S104. If cast iron pipe is used, the joint between the cast iron pipe and vitrified clay pipe shall be made with a Calder Coupling or approved equal.
13. Alternate method of chimneys per standard drawing S107 may be used where chimneys are shown; where main line sewer is ten (10) feet or more in depth; or where ground water is present unless otherwise noted.

**AS BUILT**

DATE NOV 5, 1973  
BY Nick Caro

NICK CARO  
Construction Manager  
Boise Casande  
Spring Valley Lake

**AS BUILT**

| NO | DATE    | APPROVED | DESCRIPTION OF REVISION |
|----|---------|----------|-------------------------|
| 1  | 1-22-71 | YLM      | SEE SHEET 7             |
| 2  | 4-27-70 | YLM      | SEE SHEET 10            |

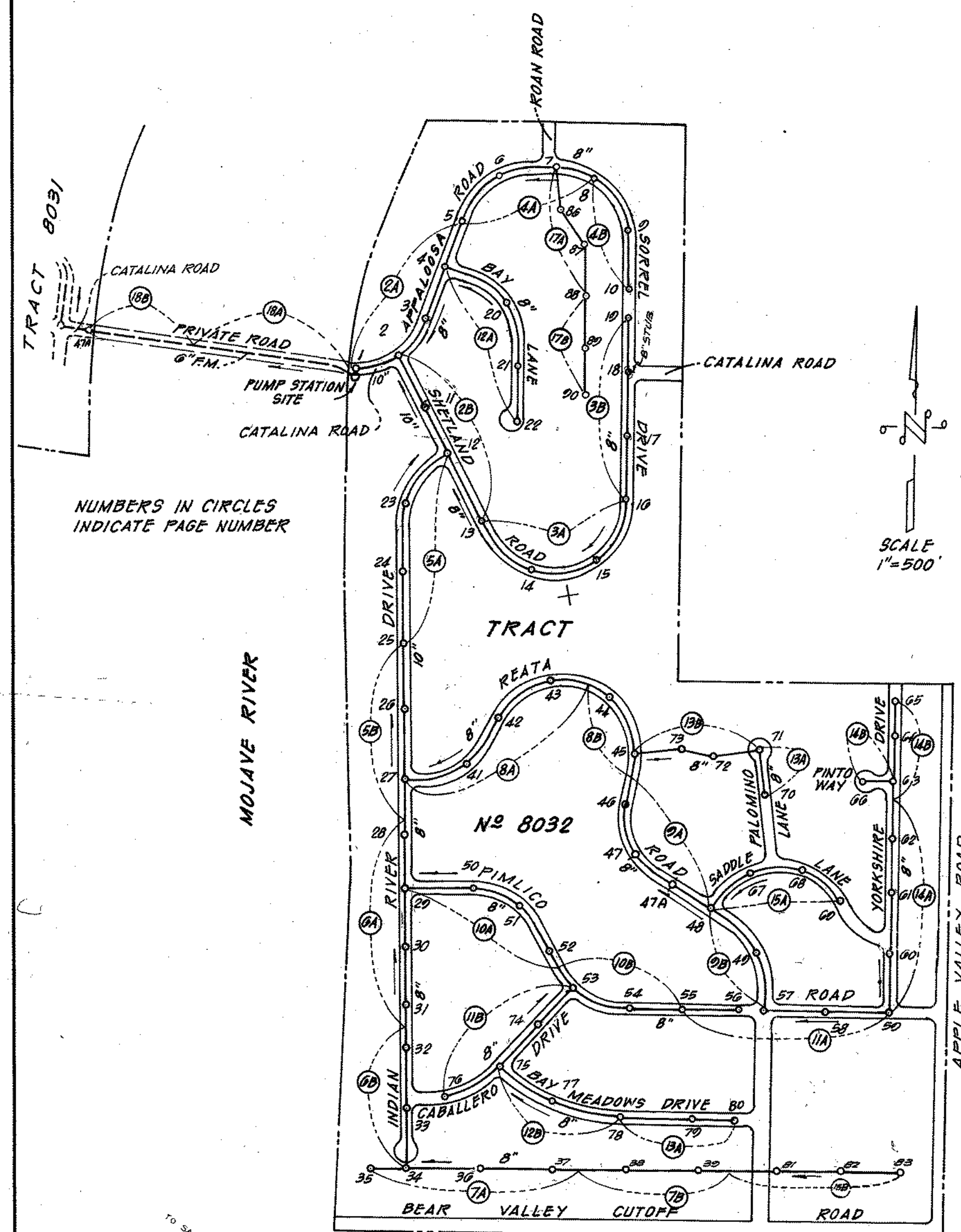
COUNTY SERVICE AREA N° 64

**SANITARY SEWERS**  
IN  
**TRACT N° 8031**

| COUNTY APPROVAL                      |                | DISTRICT ENGINEER APPROVAL |                |
|--------------------------------------|----------------|----------------------------|----------------|
| Name                                 | Date           | Name                       | Date           |
| <u>William Collings</u>              | <u>1/21/70</u> | <u>John A. ...</u>         | <u>1/21/70</u> |
| Title: DIRECTOR OF BUILDING SERVICES |                | Title: DISTRICT ENGINEER   |                |

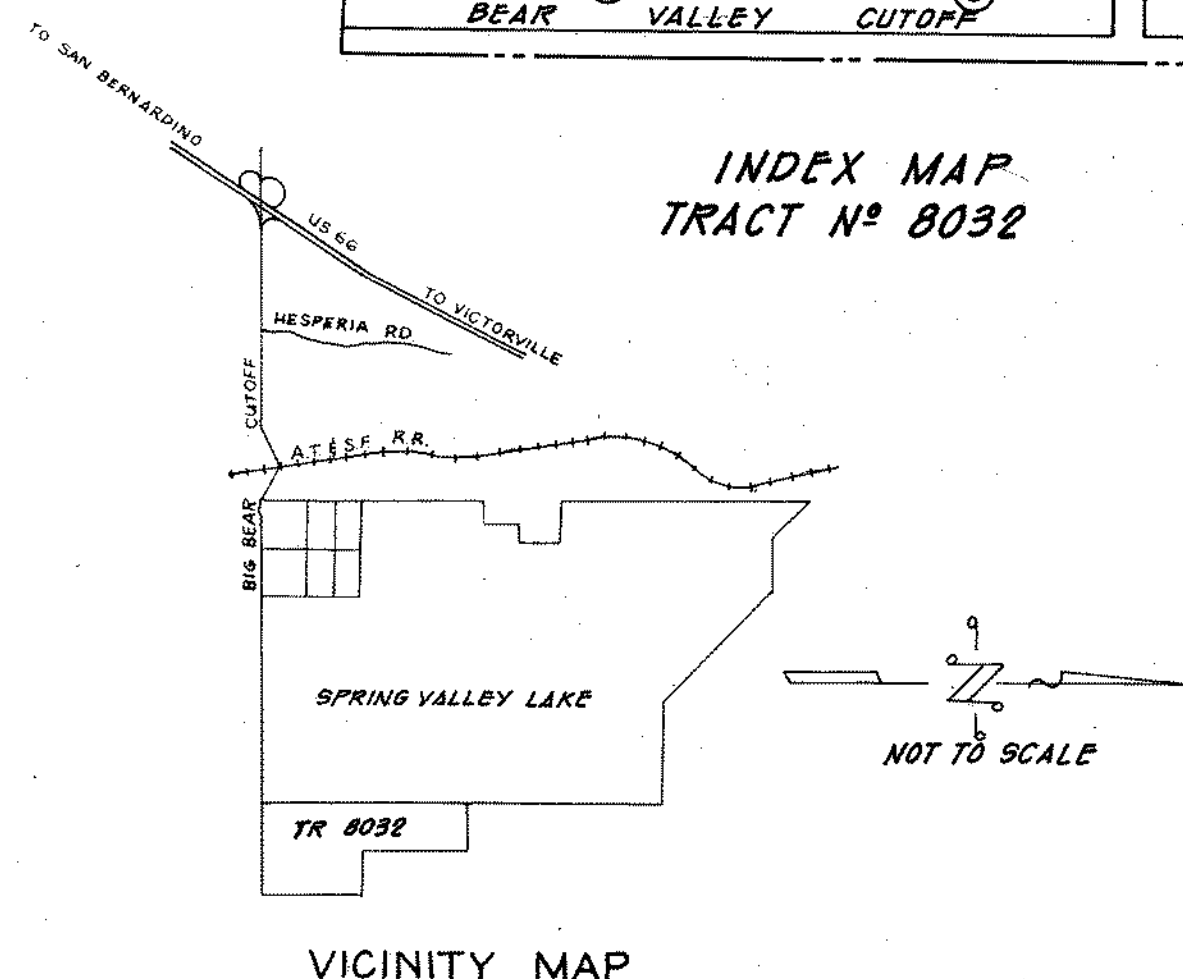
| DESIGNED               | APPROVED                   | JOB N°               |
|------------------------|----------------------------|----------------------|
| <u>Q.E.V.</u>          | <u>[Signature]</u>         | <u>4695</u>          |
| DRAWN <u>Q.E.V.</u>    |                            | SHEET                |
| CHECKED                | CALIF. R.C.E. <u>14227</u> | DATE <u>11/20/69</u> |
| SCALE: HORIZ. 1" = 40' | VERT. 1" = 8'              | ALL SHEETS           |

BM (USC&GS) M41 ELEV. 2983.144  
0.3 MILE SOUTH OF INT. BEAR VALLEY  
RD AND AT 1/2 SF R.R. 442' WEST  
OF W/RAIL OF W/TRACT, 11' SOUTH  
OF TEL. POLE 416E41.



NUMBERS IN CIRCLES  
INDICATE PAGE NUMBER

INDEX MAP  
TRACT N° 8032



VICINITY MAP

- The accuracy of the location of or the existence or non-existence of any utility pipe or structure within the limits of this project does not constitute responsibility by the engineer.
- All work shall conform to specifications and requirements of San Bernardino County Service Area No. 64.
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- Pipe may be vitrified clay pipe (V.C.P.) or reinforced plastic mortar (R.P.M.) conforming to County Service Area No. 64 standard specifications.
- Maximum pipe lengths and minimum radii for curved sections of sewer shall be:

| V.C.P. - DIA. | LENGTH | RADIUS | R.P.M. - DIA. | LENGTH | RADIUS |
|---------------|--------|--------|---------------|--------|--------|
| 8"            | 5'     | 125'   | 8"            | 10'    | 125'   |
| 10"           | 5'     | 125'   | 10"           | 10'    | 125'   |
| 12"           | 5'     | 125'   | 12"           | 10'    | 125'   |
| 15"           | 6'     | 172'   | 15"           | 10'    | 125'   |
| 18"           | 6'     | 172'   | 18"           | 10'    | 145'   |
| 21"           | 6'     | 172'   | 21"           | 10'    | 145'   |
| 24"           | 6'     | 172'   | 24"           | 10'    | 145'   |

- Manholes shall be precast concrete per specifications and standard drawings.
- Contractor shall adjust all manholes in street to finished grade upon completion of paving.
- "Y" or "T" branches shall be used for connection to main line sewer unless otherwise noted.
- House laterals to be constructed with inverts at property line five and one-half (5.5) feet below grade of flow line to conform with minimum cover shown on standard drawing No. S106, except as noted:
  - Where house lateral is shown thus, "2 + 20, Y-10", 2.00%, it means the lateral shall be constructed at or downstream of that station, with the "Y" laid at 10' and the minimum slope of 2.00% to the property line.
  - Where depth is shown, it shall be the invert depth at the property line below flow line in streets or the finished surface in easements. (H.L. - 6')
  - Where an elevation is shown, it shall be the invert elevation at the property line. (H.L. 2850.5)
- All main line and house lateral sewers crossing under water lines shall comply with standard drawing S100. If encasement is used, it shall comply with standard drawing S104. If cast iron pipe is used, the joint between the cast iron pipe and vitrified clay pipe shall be made with a Calder Coupling or approved equal.
- Alternate method of chimneys per standard drawing S107 may be used where chimneys are shown; where main line sewer is ten (10) feet or more in depth; or where ground water is present unless otherwise noted.

**AS BUILT**  
DATE 5/19/73  
BY Nick Caro

NICK CARO  
Construction Manager  
Boise Cascade  
Spring Valley Lake

**AS BUILT**

**AS BUILT NOTES**

- HOUSE LATERALS ARE MEASURED FROM THE NEAREST DOWN STREAM MANHOLE EXCEPT WHERE NOTED.
- HOUSE LATERALS ARE 5.5'± DEEP AT PROPERTY LINE MEASURED FROM FLOW LINE UNLESS OTHERWISE NOTED IN PARENTHESIS (5.4'±)

**NOTE**

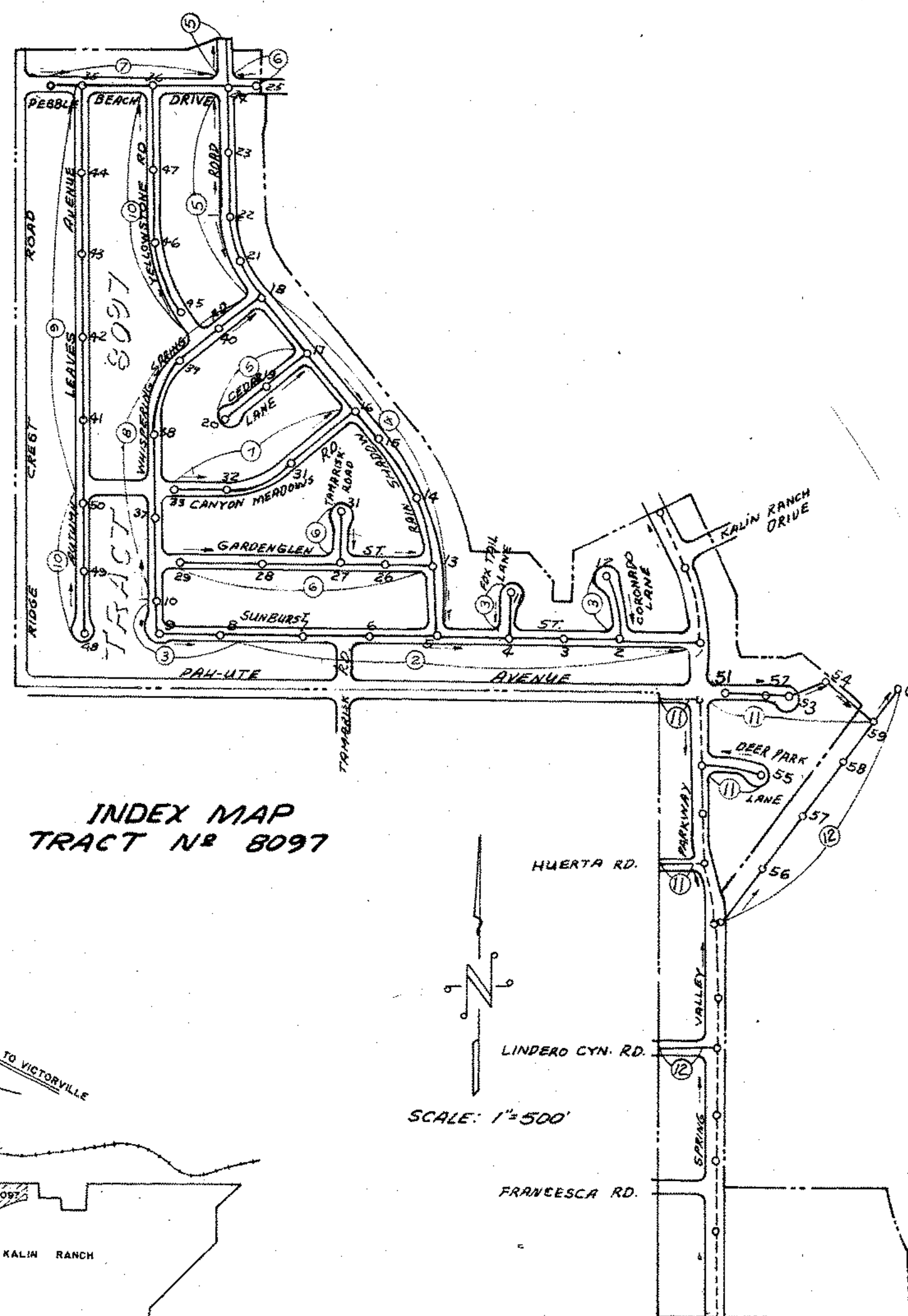
EASEMENTS AND FACILITIES CONVEYED TO COUNTY  
SERVICE AREA NO. 64 BY DOCUMENTS RECORDED  
IN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_, O.R.

APPROVED FOR CONSTRUCTION

|                                                                                                  |                              |                                                                                                 |
|--------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------|
| 7-12-71                                                                                          | H&M                          | SHT. No. 2 & No. 3                                                                              |
| 7-22-71                                                                                          | H&M                          | SHT. No. 7 & No. 16 & No. 15                                                                    |
| 8/22/70                                                                                          | H&M                          | SHT. N° 2, 3, 4, 17                                                                             |
| N°                                                                                               | DATE                         | APPROVED                                                                                        |
| COUNTY SERVICE AREA N° 64                                                                        |                              |                                                                                                 |
| SANITARY SEWERS<br>IN<br>TRACT N° 8032                                                           |                              |                                                                                                 |
| COUNTY APPROVAL<br>Name: <i>John M. ...</i> Date: 8/7/72<br>Title: DIRECTOR OF BUILDING SERVICES |                              | DISTRICT ENGINEER APPROVAL<br>Name: <i>John M. ...</i> Date: 8/6/72<br>Title: DISTRICT ENGINEER |
| DESIGNED: A.Y.N.                                                                                 | APPROVED: <i>John M. ...</i> | JOB N° 4695                                                                                     |
| DRAWN: A.Y.N.                                                                                    | CHECKED: N.M.                | SHEET                                                                                           |
| CALIF. R.C.E. 19227                                                                              | DATE 2/6/73                  | 1 OF 18                                                                                         |
| SCALE: HORIZ. 1"=40' VERT. 1"=8' ALL SHEETS                                                      |                              |                                                                                                 |

BM (USCGS) M41 ELEV. 2983.144  
0.3 MILE SOUTH OF INT. BEAR VALLEY  
RD. AND A.T. 35 R.R. 442' WEST  
OF W. RAIL OF W. TRACK, 11' SOUTH  
OF TEL. POLE 419241.

NOTE:  
Numbers in circles  
indicate page numbers



VICINITY MAP

#### NOTES

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|---------------|--------|--------|---------------|--------|--------|
| 8"            | 5'     | 115'   | 8"            | 10'    | 115'   |
| 10"           | 5'     | 115'   | 10"           | 10'    | 115'   |
| 12"           | 5'     | 115'   | 12"           | 10'    | 115'   |
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NICK CARO  
Construction Manager  
Boise Cascade  
Spring Valley Lake

**AS BUILT**  
DATE 7/20/51  
BY [Signature]

#### AS BUILT NOTES

- HOUSE LATERALS ARE MEASURED FROM THE NEAREST DOWN STREAM MANHOLE EXCEPT WHERE NOTED.
- HOUSE LATERALS ARE 5.5' DEEP AT PROPERTY LINE BELOW TOP OF CURB UNLESS NOTED OTHERWISE.

#### NOTE

EASEMENTS AND FACILITIES CONVEYED TO COUNTY  
SERVICE AREA NO. 64 BY DOCUMENTS RECORDED  
IN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_, O.R.

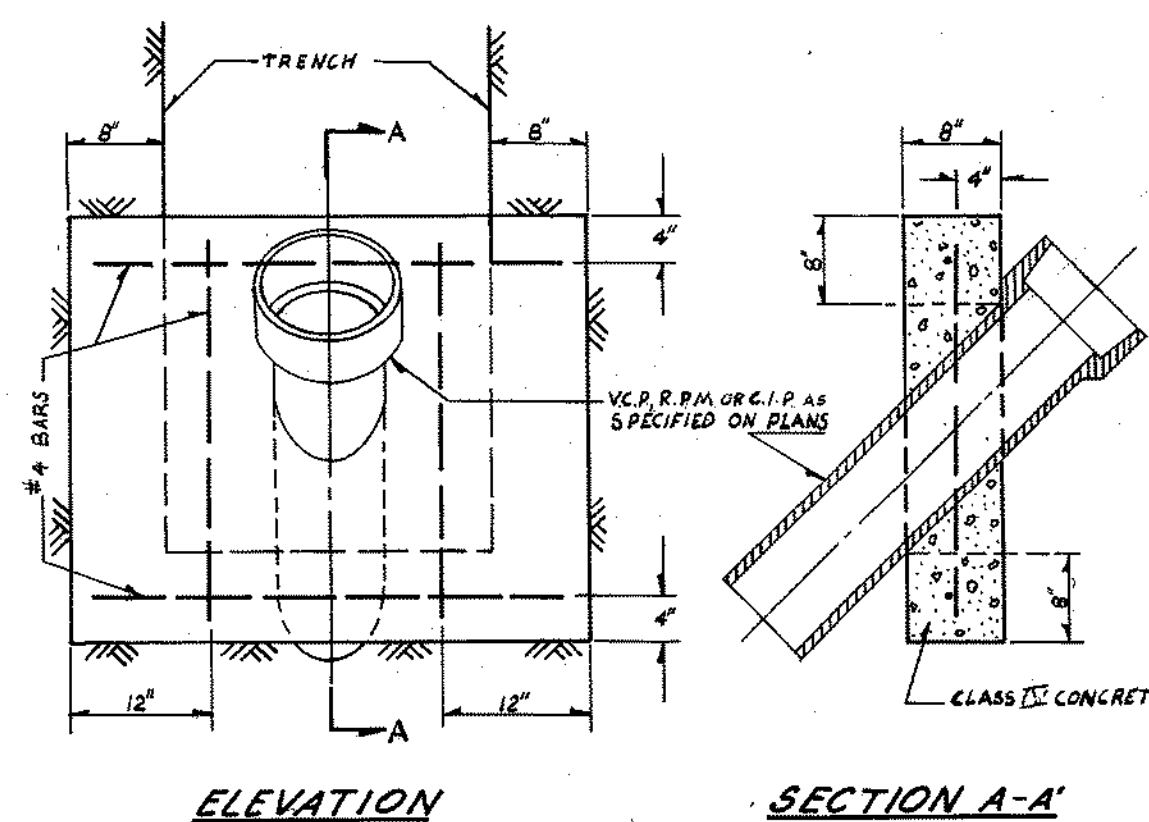
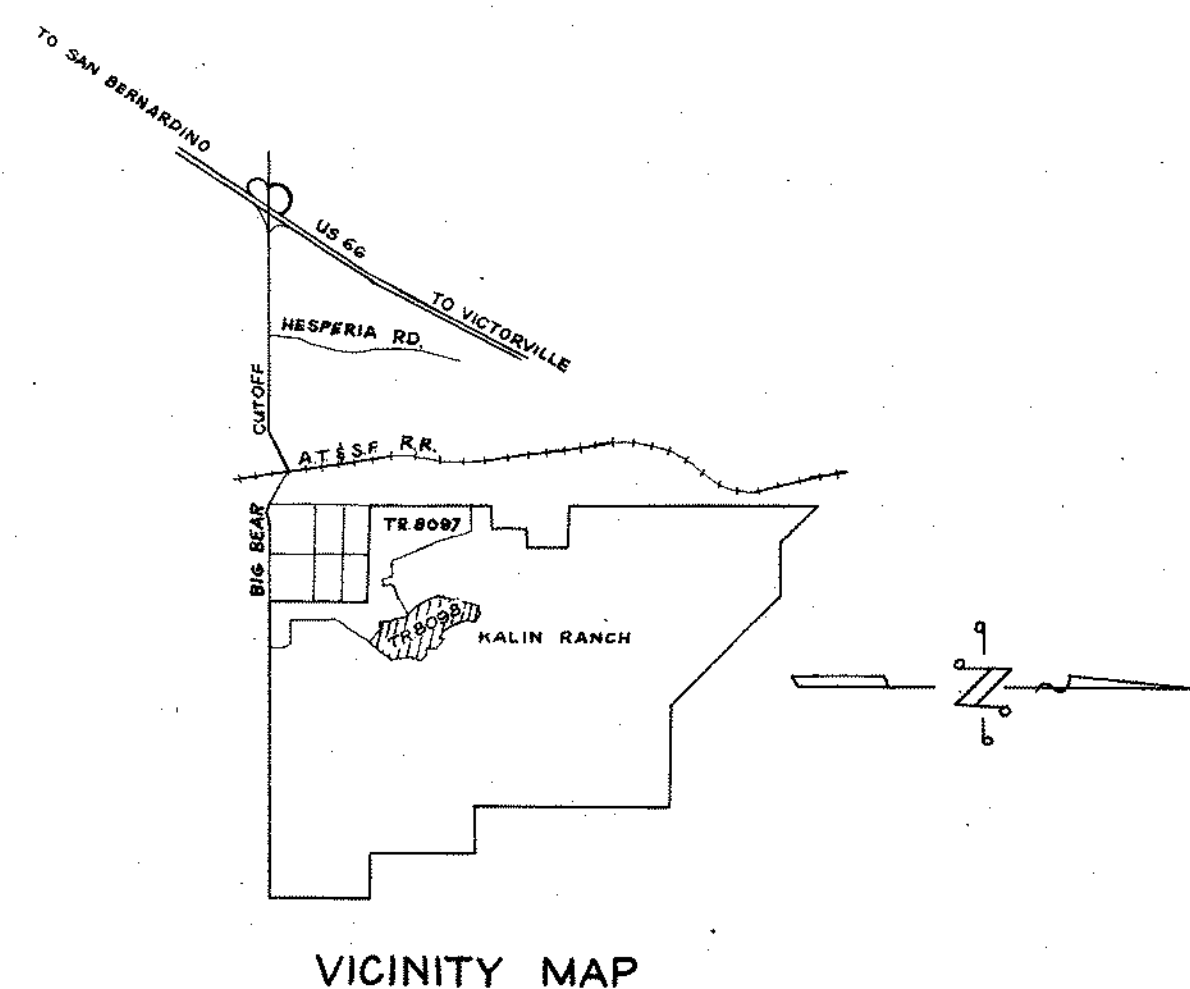
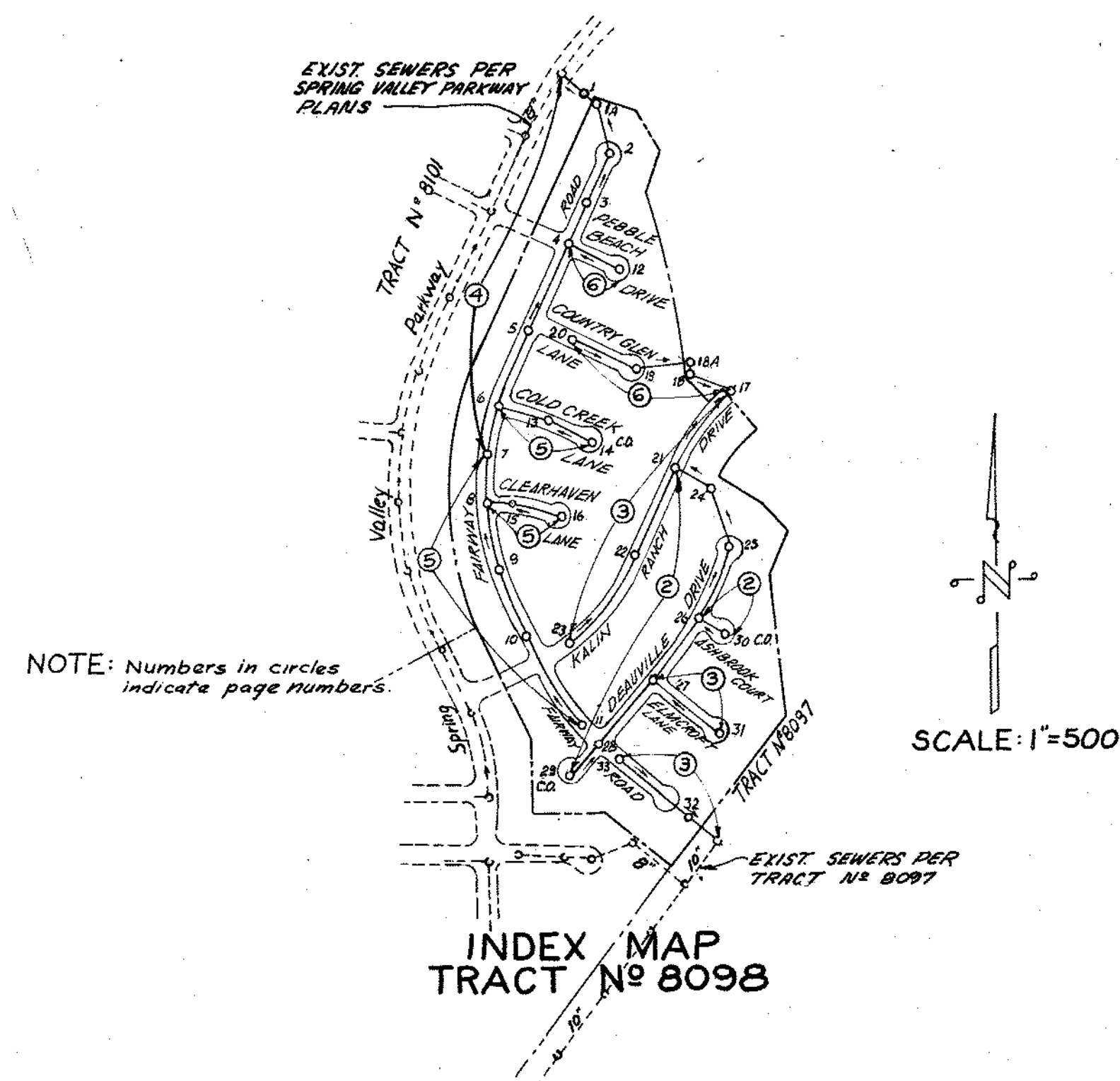
COUNTY SERVICE AREA N° 64

**SANITARY SEWERS**  
IN  
**TRACT N° 8097**

COUNTY APPROVAL: Name Wm. J. [Signature] Date 9/21/51  
DISTRICT ENGINEER APPROVAL: Name Norman O. [Signature] Date 9/21/51  
Title Director of Building Services Title District Engineer

DESIGNED A.G. APPROVED [Signature] JOB N° 4695  
DRAWN A.G. & Y.P.T. SHEET  
CHECKED CALIF. R.C.E. DATE 8/28/51 1 OF 12  
SCALE: HORIZ. 1"=40' VERT. 1"=8' ALL SHEETS

BM (USC 65) M41 ELEV. 2983.144  
0.3 MILE SOUTH OF INT. BEAR VALLEY  
RD. AND A.T. & S.F. R.R. 442' WEST  
OF W/RAIL OF W/TRACT, 11' SOUTH  
OF TEL. POLE 416E41.



DETAIL OF CONCRETE ANCHOR BLOCK  
NO SCALE

AS BUILT NOTES

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NOTE

EASEMENTS AND FACILITIES CONVEYED TO COUNTY  
SERVICE AREA NO. 64 BY DOCUMENTS RECORDED  
IN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_, O.R.

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| 10"           | 5'     | 115'   | 10"           | 10'    | 115'   |
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- Where an elevation is shown, it shall be the invert elevation at the property line. (H.L. 2850.5)

- All main line and house lateral sewers crossing under water lines shall comply with standard drawing S100. If encasement is used, it shall comply with standard drawing S104. If cast iron pipe is used, the joint between the cast iron pipe and vitrified clay pipe shall be made with a Calder Coupling or approved equal.

- Alternate method of chimneys per standard drawing S107 may be used where chimneys are shown; where main line sewer is ten (10) feet or more in depth; or where ground water is present unless otherwise noted.

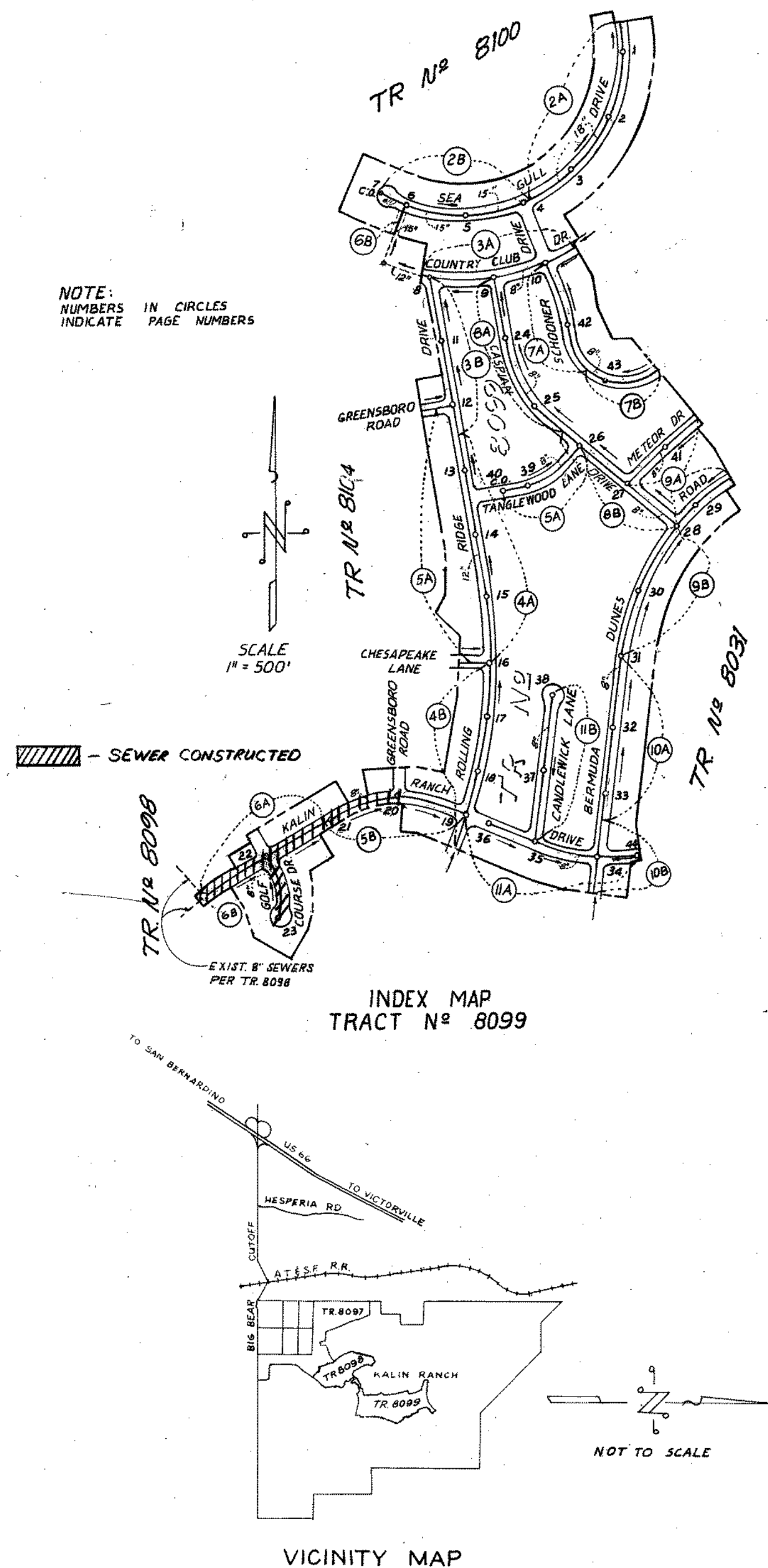
NICK CARO  
Construction Manager  
Boise Cascade  
Spring Valley Lake

AS BUILT  
DATE 5/1/83  
BY Nick Caro

|                                                                                                  |                                                                                                |                                  |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------|
| 4-8-70                                                                                           | nan                                                                                            | SHT. N° 2                        |
| 4-3-70                                                                                           | nan                                                                                            | SHT. N° 2, 6                     |
| N°                                                                                               | DATE                                                                                           | APPROVED DESCRIPTION OF REVISION |
| COUNTY SERVICE AREA N° 64                                                                        |                                                                                                |                                  |
| SANITARY SEWERS<br>IN<br>TRACT N° 8098                                                           |                                                                                                |                                  |
| COUNTY APPROVAL<br>Name <i>Annell</i> Date <i>10/1/87</i><br>Title DIRECTOR OF BUILDING SERVICES | DISTRICT ENGINEER APPROVAL<br>Name <i>Donna</i> Date <i>11/1/87</i><br>Title DISTRICT ENGINEER |                                  |
| DESIGNED A.G.                                                                                    | APPROVED                                                                                       | JOB N° 4695                      |
| DRAWN A.G. E.Y.P.T.                                                                              |                                                                                                | SHEET                            |
| CHECKED                                                                                          | CALIF. R.C.E. DATE                                                                             | 1 OF 6                           |
| SCALE: HORIZ. 1"=40'                                                                             | VERT. 1"=8'                                                                                    | ALL SHEETS                       |

BM (USC&GS) M41 ELEV. 2983.144  
0.3 MILE SOUTH OF INT. BEAR VALLEY  
RD. AND AT 1/2 SE. R.R. 442 WEST  
OF W/RAIL OF W/TRACT, 11' SOUTH  
OF TEL. POLE 416E41.

NOTE:  
NUMBERS IN CIRCLES  
INDICATE PAGE NUMBERS



#### NOTES

- The accuracy of the location of or the existence or non-existence of any utility pipe or structure within the limits of this project does not constitute responsibility by the engineer.
- All work shall conform to specifications and requirements of San Bernardino County Service Area No. 64.
- The contractor shall be responsible for coordinating his operations with other contractors and utility companies in the construction area.
- The contractor shall notify the county service area, engineer, and inspector one week in advance of when he plans to start construction. At that time or any such time prior to that as may be specified by the engineer, the contractor shall submit a schedule of his work showing principal operations and their estimated starting dates. When inspections or engineering judgments become necessary as set forth in the specifications, the contractor shall give at least twenty-four (24) hours notice to the county service area and engineer.
- No revisions shall be made in these plans without the approval of County Service Area No. 64.
- Pipe may be vitrified clay pipe (V.C.P.) or reinforced plastic mortar (R.P.M.) conforming to County Service Area No. 64 standard specifications.
- Maximum pipe lengths and minimum radii for curved sections of sewer shall be:

| V.C.P. - DIA. | LENGTH | RADIUS | R.P.M. - DIA. | LENGTH | RADIUS |
|---------------|--------|--------|---------------|--------|--------|
| 8"            | 5'     | 115'   | 8"            | 10'    | 115'   |
| 10"           | 5'     | 115'   | 10"           | 10'    | 115'   |
| 12"           | 5'     | 115'   | 12"           | 10'    | 115'   |
| 15"           | 6'     | 172'   | 15"           | 10'    | 115'   |
| 18"           | 6'     | 172'   | 18"           | 10'    | 145'   |
| 21"           | 6'     | 172'   | 21"           | 10'    | 145'   |
| 24"           | 6'     | 172'   | 24"           | 10'    | 145'   |
- Manholes shall be precast concrete per specifications and standard drawings.
- Contractor shall adjust all manholes in street to finished grade upon completion of paving.
- "Y" or "T" branches shall be used for connection to main line sewer unless otherwise noted.
- House laterals to be constructed with inverts at property line five and one-half (5.5) feet below curb grade to conform with minimum cover shown on standard drawing No. S106, except as noted:
  - Where house lateral is shown thus, "2 + 20, V-10", 2.00%, it means the lateral shall be constructed at or downstream of that station, with the "Y" laid at 10' and the minimum slope of 2.00% to the property line.
  - Where depth is shown, it shall be the invert depth at the property line below curb grade in streets or the finished surface in easements. (H.L. - 6')
  - Where an elevation is shown, it shall be the invert elevation at the property line. (H.L. 2850.5)
- All main line and house lateral sewers crossing under water lines shall comply with standard drawing S100. If encasement is used, it shall comply with standard drawing S104. If cast iron pipe is used, the joint between the cast iron pipe and vitrified clay pipe shall be made with a Calder Coupling or approved equal.
- Alternate method of chimneys per standard drawing S107 may be used where chimneys are shown, where main line sewer is ten (10) feet or more in depth, or where ground water is present unless otherwise noted.

AS BUILT

DATE 11/17/69  
BY [Signature]

#### NOTE

EASEMENTS AND FACILITIES CONVEYED TO COUNTY  
SERVICE AREA NO. 64 BY DOCUMENTS, RECORDED  
IN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_, O.R.

AS BUILT

- AS BUILT NOTES
- HOUSE LATERALS ARE MEASURED FROM THE NEAREST DOWN STREAM MANHOLE EXCEPT WHERE NOTED.
  - HOUSE LATERALS ARE 4.0' ± DEEP AT PROPERTY LINE MEASURED FROM TOP OF CURB, UNLESS OTHERWISE NOTED IN PARENTHESIS (5.6' ±)

| NO. | DATE    | APPROVED | REVISION |
|-----|---------|----------|----------|
| 1   | 4-19-71 | NAN      | SHEET 2  |

COUNTY SERVICE AREA N° 64

SANITARY SEWERS  
IN  
TRACT N° 8099

COUNTY APPROVAL: 11/17/69  
Name: [Signature] Title: DIRECTOR OF BUILDING SERVICES

DISTRICT ENGINEER APPROVAL: 11/17/69  
Name: [Signature] Title: DISTRICT ENGINEER

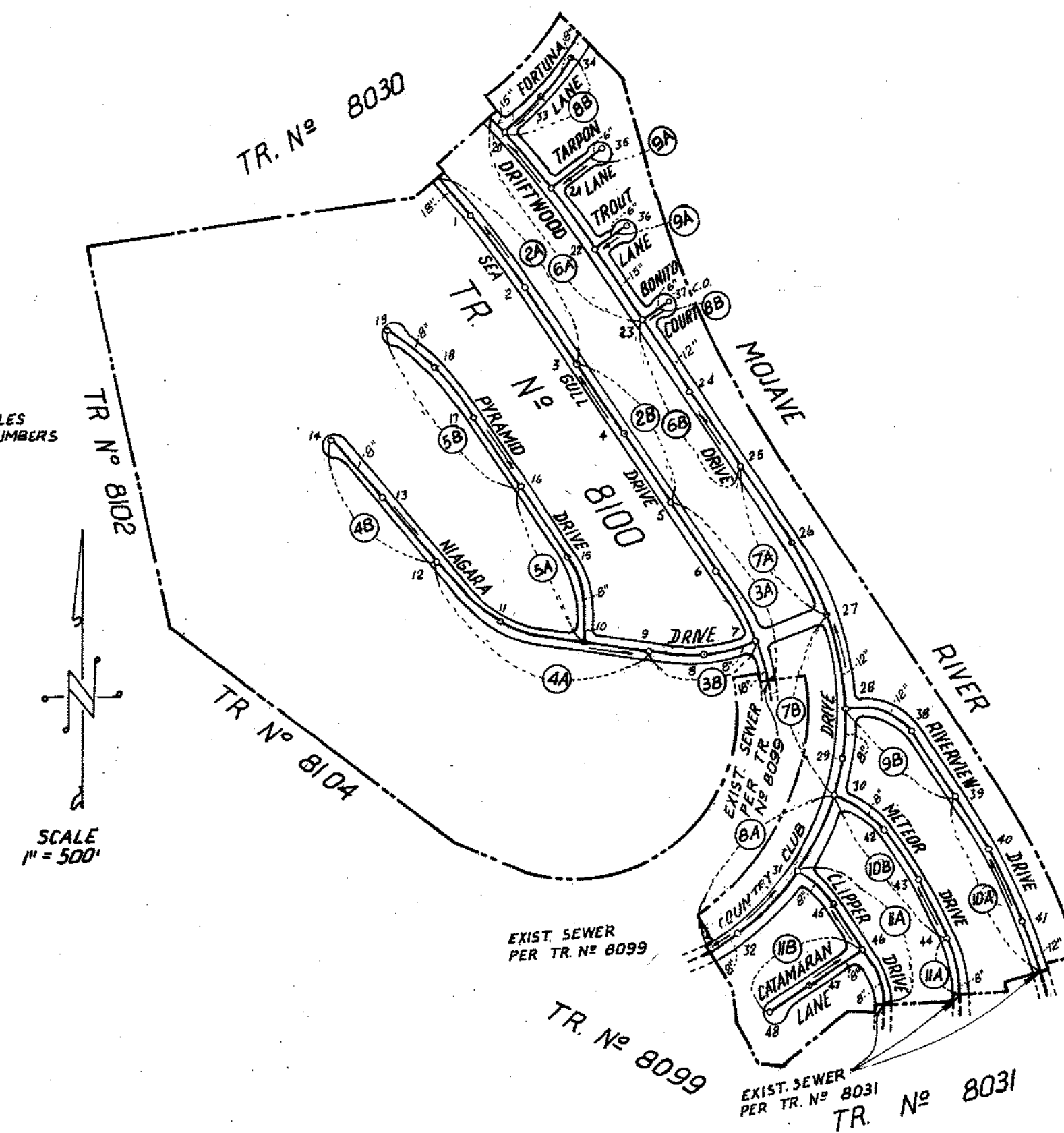
DESIGNED: DEW  
DRAWN: DEW  
CHECKED: CALIF RCE  
SCALE: HORIZ: 1"=40' VERT: 1"=8' ALL SHEETS

APPROVED: [Signature]  
DATE: 11/17/69

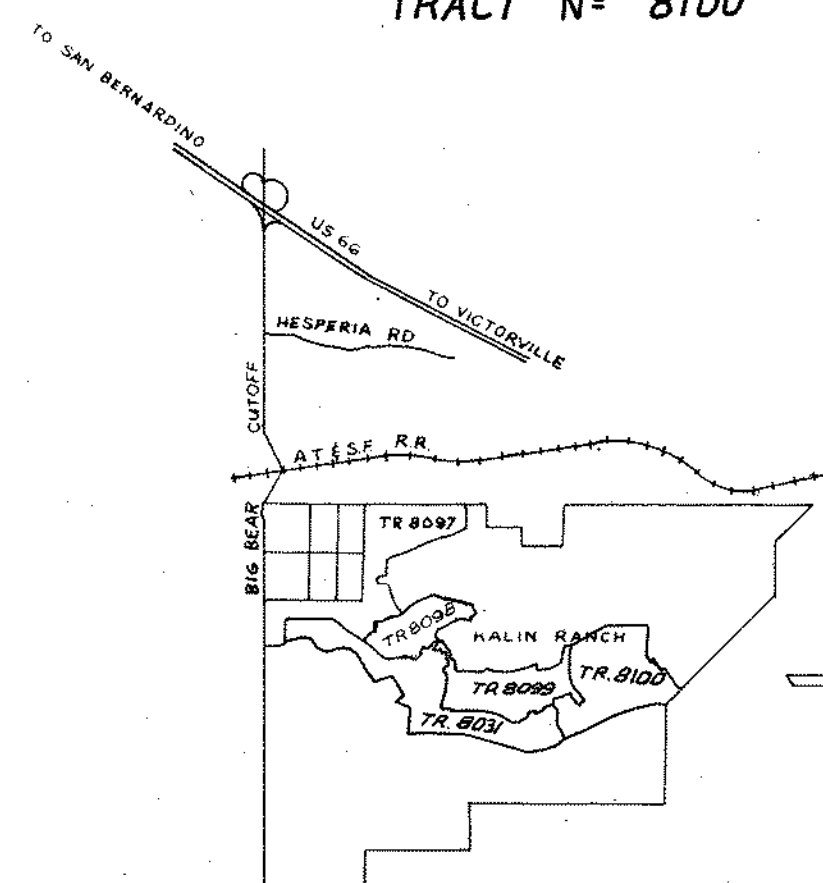
JOB N° 4695  
SHEET 1 OF 11

BM (USC&GS) M41 ELEV. 2983.144  
0.3 MILE SOUTH OF INT. BEAR VALLEY  
RD. AND AT 5<sup>TH</sup> RR. 442 WEST  
OF W. RAIL OF W. TRACK, 11' SOUTH  
OF TEL. POLE 416E41.

NOTE:  
NUMBERS IN CIRCLES  
INDICATE PAGE NUMBERS



INDEX MAP  
TRACT No. 8100



VICINITY MAP

- The accuracy of the location of or the existence or non-existence of any utility pipe or structure within the limits of this project does not constitute responsibility by the engineer.
- All work shall conform to specifications and requirements of San Bernardino County Service Area No. 64.
- The contractor shall be responsible for coordinating his operations with other contractors and utility companies in the construction area.
- The contractor shall notify the county service area, engineer, and inspector one week in advance of when he plans to start construction. At that time or any such time prior to that as may be specified by the engineer, the contractor shall submit a schedule of his work showing principal operations and their estimated starting dates. When inspections or engineering judgements become necessary as set forth in the specifications, the contractor shall give at least twenty-four (24) hours notice to the county service area and engineer.
- No revisions shall be made in these plans without the approval of County Service Area No. 64.
- Pipe may be vitrified clay pipe (V.C.P.) or reinforced plastic mortar (R.P.M.) conforming to County Service Area No. 64 standard specifications.
- Maximum pipe lengths and minimum radii for curved sections of sewer shall be:

| V.C.P. - DIA. | LENGTH | RADIUS | R.P.M. - DIA. | LENGTH | RADIUS |
|---------------|--------|--------|---------------|--------|--------|
| 8"            | 5'     | 125'   | 8"            | 10'    | 125'   |
| 10"           | 5'     | 125'   | 10"           | 10'    | 125'   |
| 12"           | 5'     | 125'   | 12"           | 10'    | 125'   |
| 15"           | 6'     | 172'   | 15"           | 10'    | 125'   |
| 18"           | 6'     | 172'   | 18"           | 10'    | 145'   |
| 21"           | 6'     | 172'   | 21"           | 10'    | 145'   |
| 24"           | 6'     | 172'   | 24"           | 10'    | 145'   |

- Manholes shall be precast concrete per specifications and standard drawings.
- Contractor shall adjust all manholes in street to finished grade upon completion of paving.
- "Y" or "T" branches shall be used for connection to main line sewer unless otherwise noted.
- House laterals to be constructed with inverts at property line **SIX (6.0)** feet below curb grade to conform with minimum cover shown on standard drawing No. S106, except as noted:
  - Where house lateral is shown thus, "2 + 20, Y-10<sup>0</sup>, 2.00%", it means the lateral shall be constructed at or downstream of that station, with the "Y" laid at 10' and the minimum slope of 2.00% to the property line.
  - Where depth is shown, it shall be the invert depth at the property line below curb grade in streets or the finished surface in easements. (H.L. - 6')
  - Where an elevation is shown, it shall be the invert elevation at the property line. (H.L. 2850.5)
- All main line and house lateral sewers crossing under water lines shall comply with standard drawing S100. If encasement is used, it shall comply with standard drawing S104. If cast iron pipe is used, the joint between the cast iron pipe and vitrified clay pipe shall be made with a Calder Coupling or approved equal.
- Alternate method of chimneys per standard drawing S107 may be used where chimneys are shown; where main line sewer is ten (10) feet or more in depth; or where ground water is present unless otherwise noted.

**AS BUILT**

DATE 7/8/1973  
BY [Signature]

NICK CARO  
Construction Manager  
Boise Cascade  
Spring Valley Lake

**AS BUILT**

**AS BUILT NOTES**

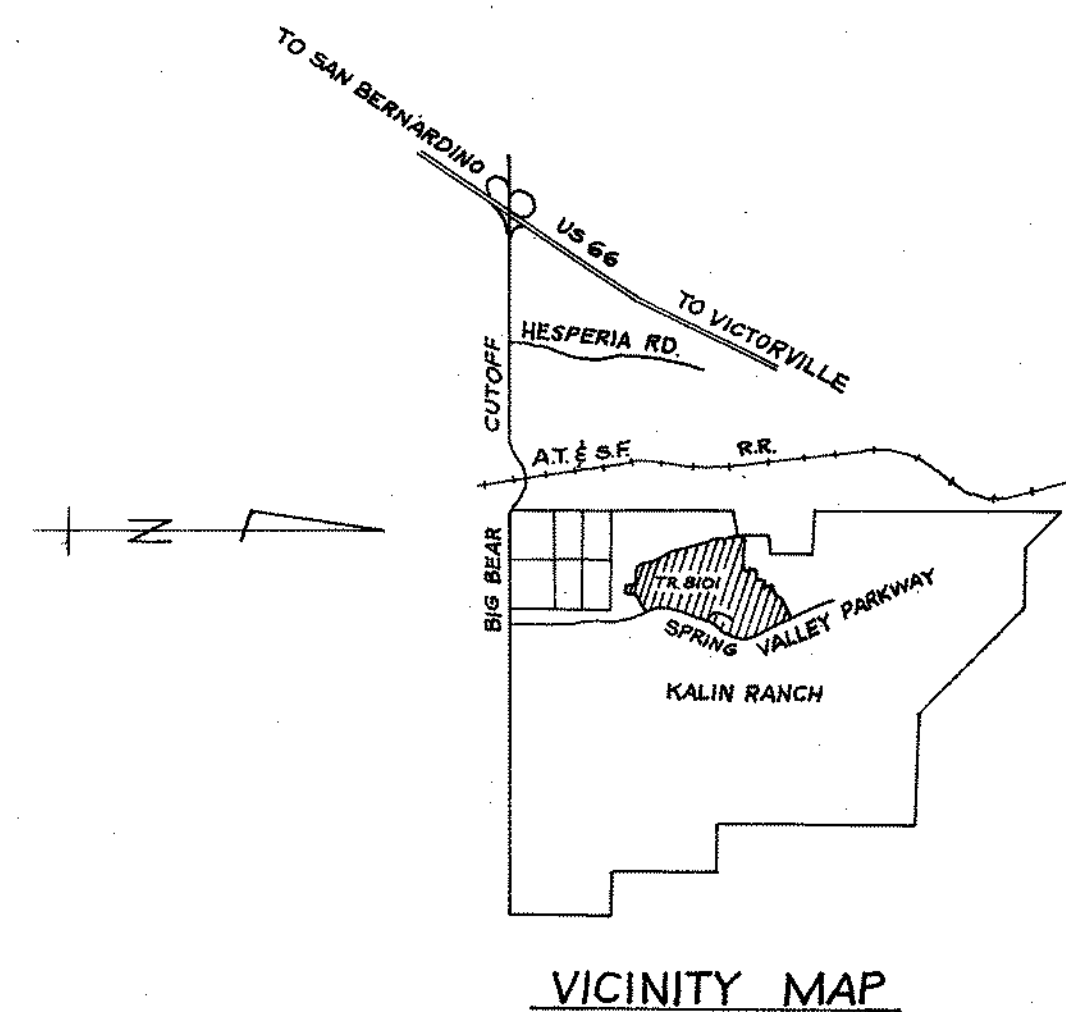
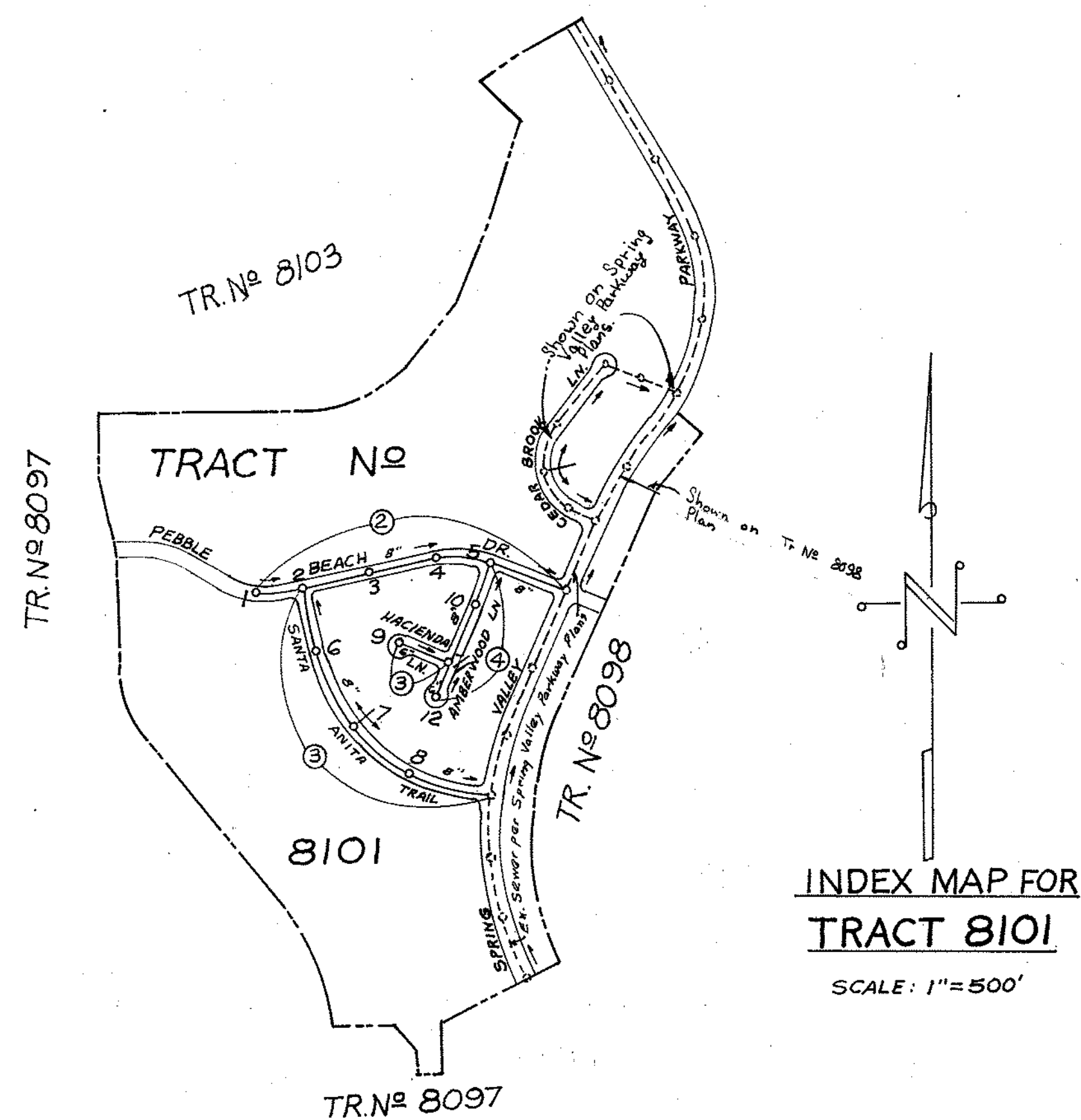
- HOUSE LATERALS ARE MEASURED FROM THE NEAREST DOWN STREAM MANHOLE EXCEPT WHERE NOTED
- HOUSE LATERALS ARE 6.0' DEEP AT PROPERTY LINE MEASURED FROM TOP OF CURB, UNLESS OTHERWISE NOTED IN PARENTHESIS (5.6').

**NOTE**

EASEMENTS AND FACILITIES CONVEYED TO COUNTY  
SERVICE AREA NO. 64 BY DOCUMENTS RECORDED  
IN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_, O.R.

|                                         |      |                      |               |
|-----------------------------------------|------|----------------------|---------------|
| 4-10-71                                 | DATE | APPROVED             | SHEETS 2 of 3 |
| 19                                      | DATE | APPROVED             | REVISION      |
| COUNTY SERVICE AREA No. 64              |      |                      |               |
| SANITARY SEWERS<br>IN<br>TRACT No. 8100 |      |                      |               |
| DESIGNED D.E.V.                         |      | APPROVED [Signature] |               |
| DRAWN D.E.V. 4 J.B.                     |      | JOB No. 4695         |               |
| CHECKED [Signature]                     |      | SHEET                |               |
| CALIF R.C.E. 11297                      |      | DATE 1/12/70         |               |
| SCALE: HORIZ. 1" = 40'                  |      | VERT. 1" = 8'        |               |
| ALL SHEETS                              |      | 1 OF 11              |               |

B.M. (U.S.C. & G.S.) M 41 ELEV. 2983.144  
0.3 MI. S/o INT. BEAR VALLEY RD. AND  
AT & SF. R.R. 442' W/o W/RAIL OF  
W/TRACK, 11' S/o TEL. POLE 41GE41.



- The accuracy of the location of or the existence or non-existence of any utility pipe or structure within the limits of this project does not constitute responsibility by the engineer.
- All work shall conform to specifications and requirements of San Bernardino County Service Area No. 64.
- The contractor shall be responsible for coordinating his operations with other contractors and utility companies in the construction area.
- The contractor shall notify the county service area, engineer, and inspector one week in advance of when he plans to start construction. At that time or any such time prior to that as may be specified by the engineer, the contractor shall submit a schedule of his work showing principal operations and their estimated starting dates. When inspections or engineering judgements become necessary as set forth in the specifications, the contractor shall give at least twenty-four (24) hours notice to the county service area and engineer.

- No revisions shall be made in these plans without the approval of County Service Area No. 64.

- Pipe may be vitrified clay pipe (V.C.P.) or reinforced plastic mortar (R.P.M.) conforming to County Service Area No. 64 standard specifications.

- Maximum pipe lengths and minimum radii for curved sections of sewer shall be:

| V.C.P. - DIA. | LENGTH | RADIUS | R.P.M. - DIA. | LENGTH | RADIUS |
|---------------|--------|--------|---------------|--------|--------|
| 8"            | 5'     | 115'   | 8"            | 10'    | 115'   |
| 10"           | 5'     | 115'   | 10"           | 10'    | 115'   |
| 12"           | 5'     | 115'   | 12"           | 10'    | 115'   |
| 15"           | 6'     | 172'   | 15"           | 10'    | 115'   |
| 18"           | 6'     | 172'   | 18"           | 10'    | 145'   |
| 21"           | 6'     | 172'   | 21"           | 10'    | 145'   |
| 24"           | 6'     | 172'   | 24"           | 10'    | 145'   |

- Manholes shall be precast concrete per specifications and standard drawings.
- Contractor shall adjust all manholes in street to finished grade upon completion of paving.
- "Y" or "T" branches shall be used for connection to main line sewer unless otherwise noted.
- House laterals to be constructed with inverts at property line five and one-half (5.5) feet below curb grade to conform with minimum cover shown on standard drawing No. S106, except as noted:
  - Where house lateral is shown thus, "2 + 20, Y-10", 2.00%, it means the lateral shall be constructed at or downstream of that station, with the "Y" laid at 10' and the minimum slope of 2.00% to the property line.
  - Where depth is shown, it shall be the invert depth at the property line below curb grade in streets or the finished surface in easements. (H.L. -6')
  - Where an elevation is shown, it shall be the invert elevation at the property line. (H.L. 2850.5)
- All main line and house lateral sewers crossing under water lines shall comply with standard drawing S100. If encasement is used, it shall comply with standard drawing S104. If cast iron pipe is used, the joint between the cast iron pipe and vitrified clay pipe shall be made with a Calder Coupling or approved equal.
- Alternate method of chimneys per standard drawing S107 may be used where chimneys are shown; where main line sewer is ten (10) feet or more in depth; or where ground water is present unless otherwise noted.

NOTE  
EASEMENTS AND FACILITIES CONVEYED TO COUNTY  
SERVICE AREA NO. 64 BY DOCUMENTS RECORDED  
IN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_, O.R.

NICK CARO  
Construction Manager  
Boise Cascade  
Spring Valley Lumber  
**AS BUILT**  
DATE NOV 5 1973  
BY Nick Caro

## AS BUILT NOTES

- HOUSE LATERALS ARE MEASURED FROM THE NEAREST DOWN STREAM MANHOLE EXCEPT WHERE NOTED.
- HOUSE LATERALS ARE 5.5'± DEEP AT PROPERTY LINE BELOW TOP OF CURB UNLESS NOTED OTHERWISE.

COUNTY SERVICE AREA No 64

SANITARY SEWERS  
FOR  
TRACT No 8101

COUNTY APPROVAL  
Name Curtis Callegre Date 9/16/69 Title DIRECTOR OF BUILDING SERVICES  
DISTRICT ENGINEER APPROVAL  
Name Norman Allen Date 10/6/69 Title DISTRICT ENGINEER

DESIGNED A.G. APPROVED W. David Dwyer JOB NO. \_\_\_\_\_  
DRAWN A.G. & Y.P.T. DATE 9/16/69 SHEET \_\_\_\_\_  
CHECKED \_\_\_\_\_ CALIF. R.C.E. 14372 DATE 9/16/69 1 OF 4  
SCALE: HORIZ: 1"=40' VERT: 1"=8' ALL SHEETS

0.3 MILE SOUTH OF INT. BEAR VALLEY  
RD. AND A.T. & S.F. R.R. 44.2' WEST  
OF W/RAIL OF W/TRACK, 11' SOUTH  
OF TEL. POLE 416E41.

HONEYCOMB LAM

PORTSIDE LANE-

STANDARD

RANCHO BONITA DRIVE

SCALE  
1"=500'

 Sewer Line Constructed

INDEX MAP  
TRACT No 8102

VICINITY MAP

NOT TO SCALE

1. The accuracy of the location of or the existence or non-existence of any utility pipe or structure within the limits of this project does not constitute responsibility by the engineer.
2. All work shall conform to specifications and requirements of San Bernardino County Service Area No. 64.
3. The contractor shall be responsible for coordinating his operations with other contractors and utility companies in the construction area.
4. The contractor shall notify the county service area, engineer, and inspector one week in advance of when he plans to start construction. At that time or any such time prior to that as may be specified by the engineer, the contractor shall submit a schedule of his work showing principal operations and their estimated starting dates. When inspections or engineering judgements become necessary as set forth in the specifications, the contractor shall give at least twenty-four (24) hours notice to the county service area and engineer.

5. No revisions shall be made in these plans without the approval of County Service Area No. 64.

6. Pipe may be vitrified clay pipe (V.C.P.) or reinforced plastic mortar (R.P.M.) conforming to County Service Area No. 64 standard specifications.

7. Maximum pipe lengths and minimum radii for curved sections of sewer shall be:

| V.C.P. - | DIA. | LENGTH | RADIUS | R.P.M.- | DIA. | LENGTH | RADIUS |
|----------|------|--------|--------|---------|------|--------|--------|
|          | 8"   | 5'     | 125'   |         | 8"   | 10'    | 125'   |
|          | 10"  | 5'     | 125'   |         | 10"  | 10'    | 125'   |
|          | 12"  | 5'     | 125'   |         | 12"  | 10'    | 125'   |
|          | 15"  | 6'     | 172'   |         | 15"  | 10'    | 125'   |
|          | 18"  | 6'     | 172'   |         | 18"  | 10'    | 145'   |
|          | 21"  | 6'     | 172'   |         | 21"  | 10'    | 145'   |
|          | 24"  | 6'     | 172'   |         | 24"  | 10'    | 145'   |

8. Manholes shall be precast concrete per specifications and standard drawings.

9. Contractor shall adjust all manholes in street to finished grade upon completion of paving.

10. "Y" or "T" branches shall be used for connection to main line sewer unless otherwise noted.

11. House laterals to be constructed with inverts at property line six (6.0) feet below curb grade to conform with minimum cover shown on standard drawing No. S106, except as noted:

a) Where house lateral is shown thus, "2 + 20, Y-10<sup>0</sup>, 2.00%", it means the lateral shall be constructed at or downstream of that station, with the "Y" laid at 10' and the minimum slope of 2.00% to the property line.

b) Where depth is shown, it shall be the invert depth at the property line below curb grade in streets or the finished surface in easements. (H.L.-6')

c) Where an elevation is shown, it shall be the invert elevation at the property line. (H.L. 2850.5)

12. All main line and house lateral sewers crossing under water lines shall comply with standard drawing S100. If encasement is used, it shall comply with standard drawing S104. If cast iron pipe is used, the joint between the cast iron pipe and vitrified clay pipe shall be made with a Calder Coupling or approved equal.

13. Alternate method of chimneys per standard drawing S107 may be used where chimneys are shown; where main line sewer is ten (10) feet or more in depth; or where ground water is present unless otherwise noted.

NICK CARO  
Construction Manager  
Boise Cascade  
Spring Valley Lake

# AS BUILT

DATE APR 5, 1973  
BY Dick Cow

**NOTE**

EASEMENTS AND FACILITIES CONVEYED TO COUNTY  
SERVICE AREA NO. 64 BY DOCUMENTS RECORDED  
IN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_, O.R.

AS BUILT NOTES

1. HOUSE LATERALS ARE MEASURED FROM THE NEAREST DOWN STREAM MANHOLE EXCEPT WHERE NOTED.
2. HOUSE LATERALS ARE 60% DEEP AT PROPERTY LINE MEASURED FROM TOP OF CURB, UNLESS OTHERWISE NOTED IN PARENTHESIS (56%)

COUNTY SERVICE AREA No 64

SANITARY SEWERS  
IN  
TRACT N<sup>o</sup> 8102

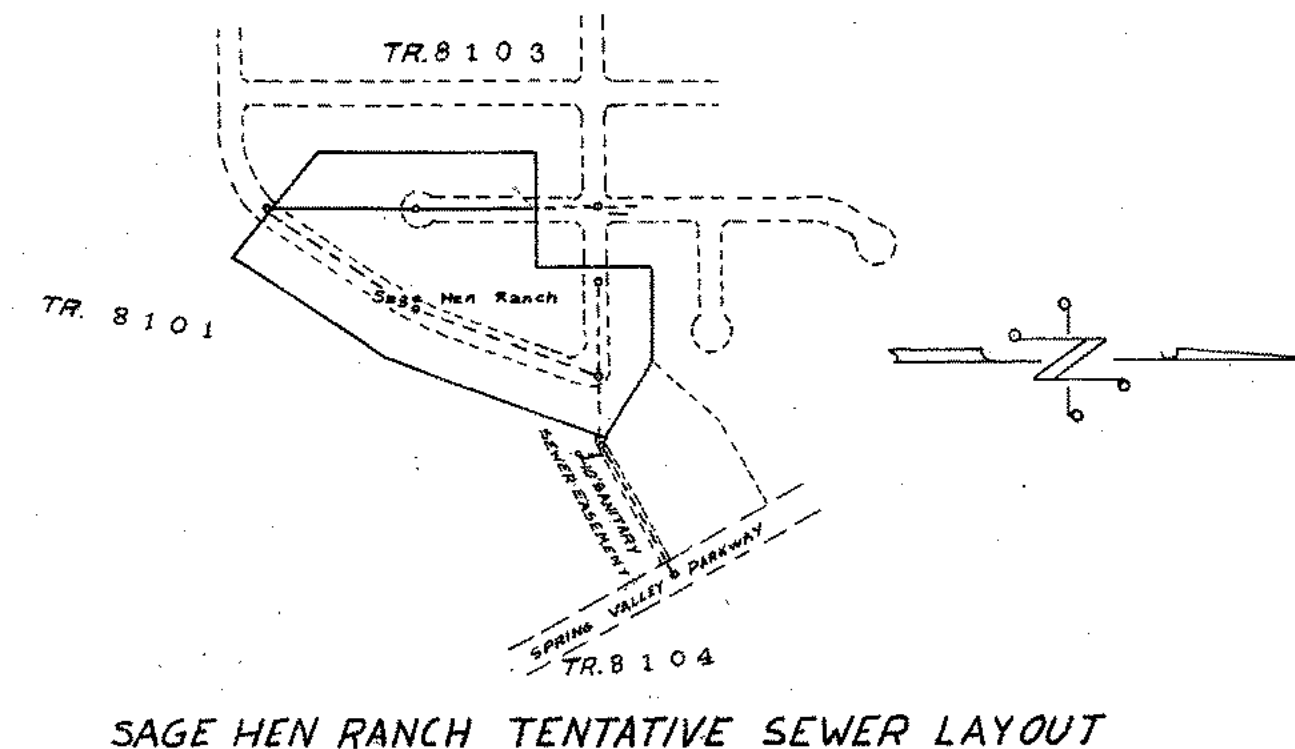
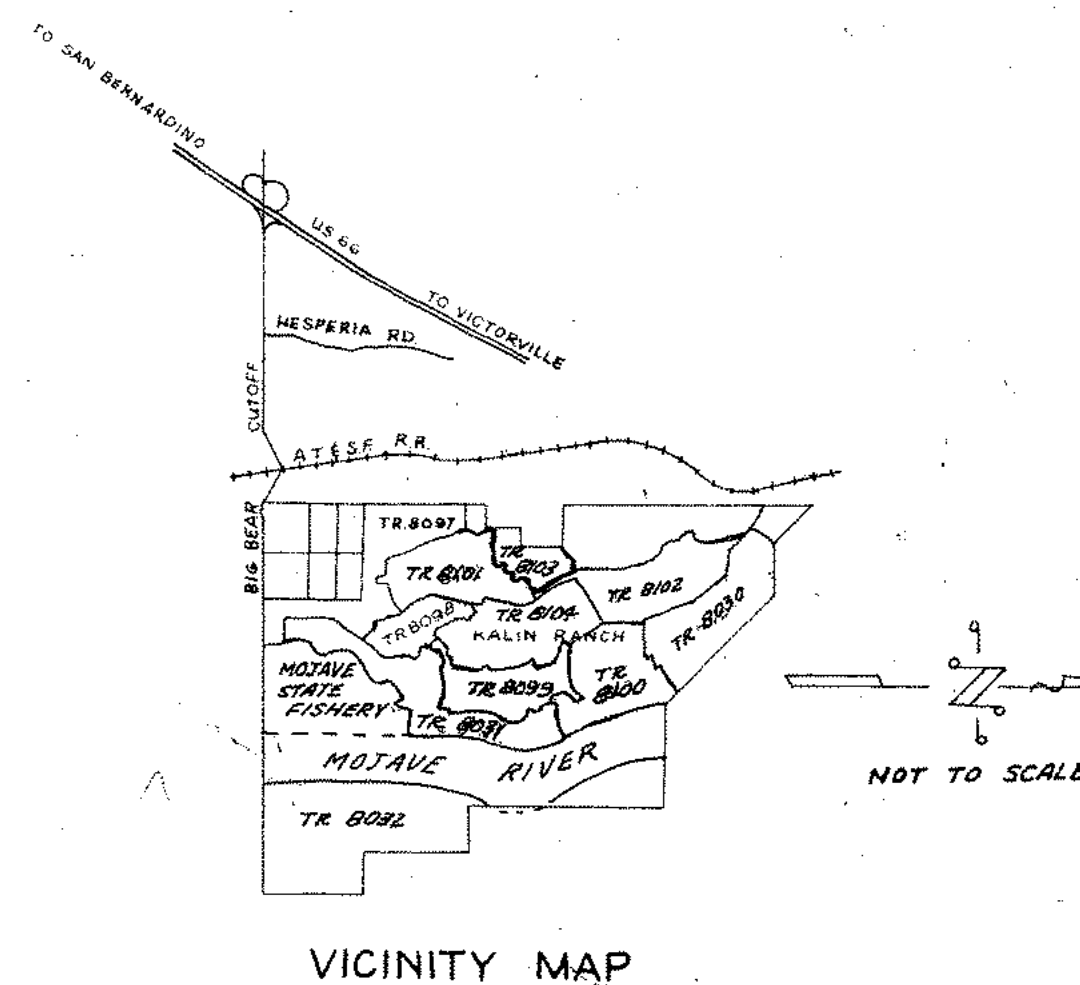
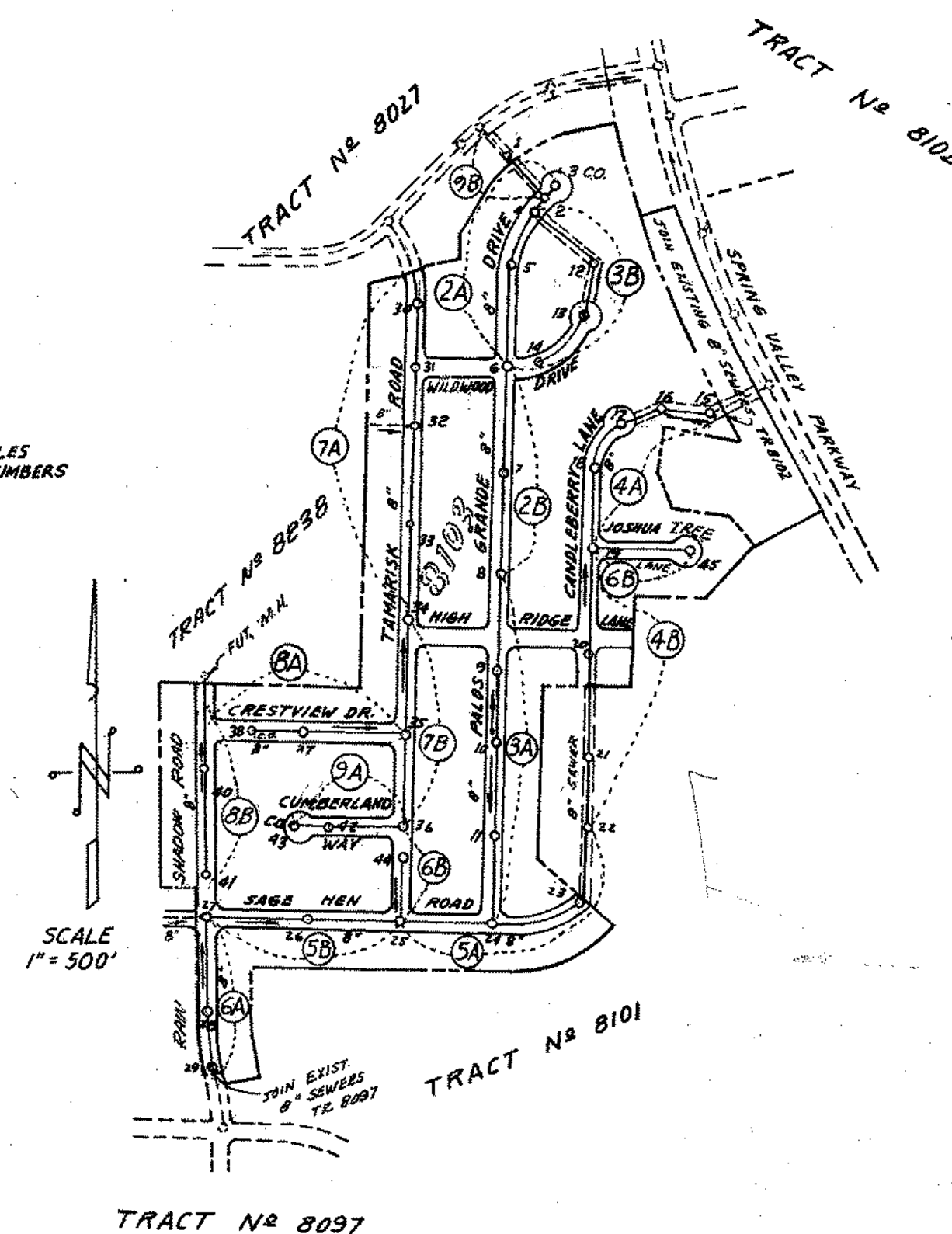
COUNTY APPROVAL  
 Name: C. W. Calhoun Date: 3/24/70  
 Title: DIRECTOR OF BUILDING SERVICES

DISTRICT ENGINEER APPROVAL  
 Name: Norman A. Nish Date: 3/24/70  
 Title: DISTRICT ENGINEER

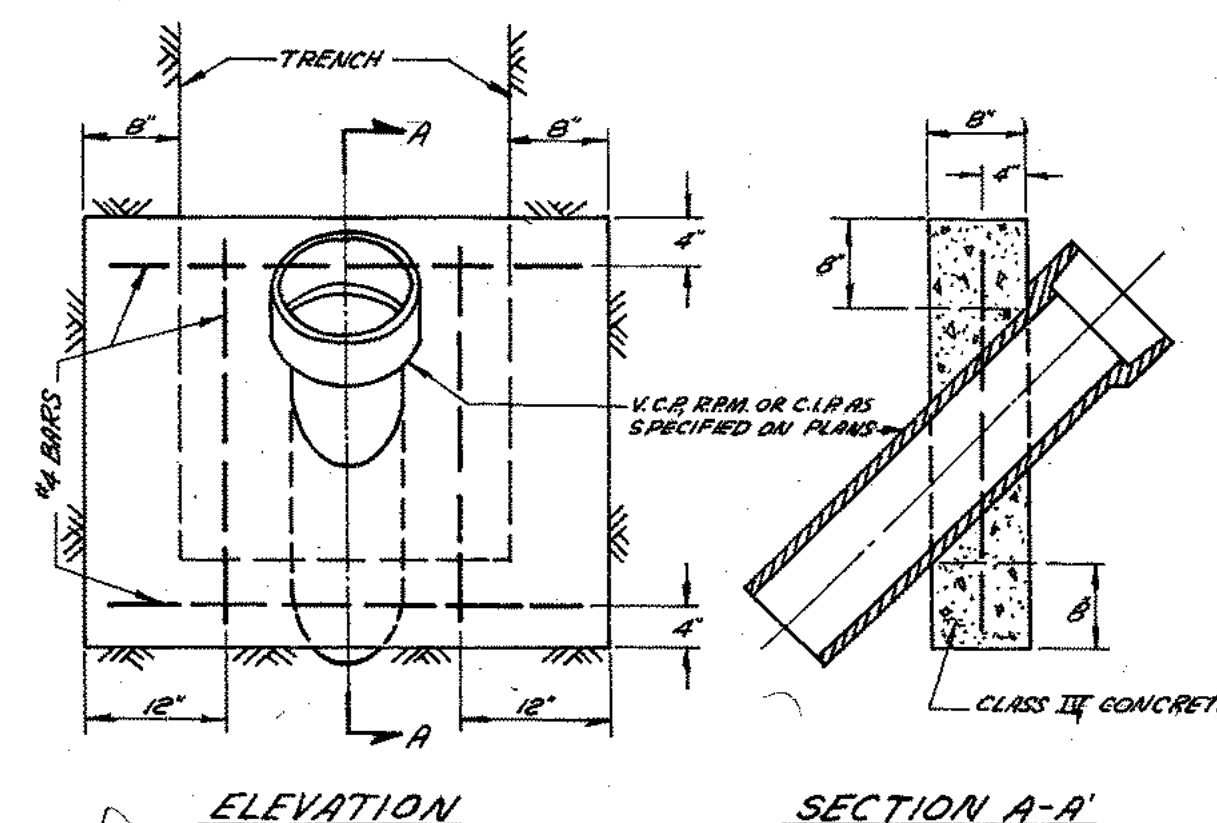
|                                                 |                                                                                                                                |                     |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|---------------------|
| DESIGNED <i>A.N.</i>                            | <br>APPROVED<br>CALIF R.C.E. <i>14297</i> | JOB NO <b>4695</b>  |
| DRAWN <i>A.N.</i>                               |                                                                                                                                | SHEET               |
| CHECKED <i>A.G.</i>                             |                                                                                                                                | DATE <i>2/23/70</i> |
| SCALE: HORIZ: 1" = 40' VERT: 1" = 8' ALL SHEETS |                                                                                                                                | OF                  |

BM (USC 65) M41 ELEV. 2983.144  
0.3 MILE SOUTH OF INT. BEAR VALLEY  
RD. AND AT 45° E. R.R. 442' WEST  
OF W. RAIL OF W. TRACK, 11' SOUTH  
OF TEL. POLE 416E41.

NOTE: IN CIRCLES  
NUMBERS  
INDICATE  
PAGE NUMBERS



SAGE HEN RANCH TENTATIVE SEWER LAYOUT



DETAIL OF CONCRETE ANCHOR BLOCK  
NO SCALE

AS BUILT NOTES

- HOUSE LATERALS ARE MEASURED FROM THE NEAREST DOWN STREAM MANHOLE EXCEPT WHERE NOTED.
- HOUSE LATERALS ARE 6.0' DEEP AT PROPERTY LINE MEASURED FROM TOP OF CURB, UNLESS OTHERWISE NOTED IN PARENTHESIS (5.6').

NOTE  
EASEMENTS AND FACILITIES CONVEYED TO COUNTY  
SERVICE AREA NO. 64 BY DOCUMENTS RECORDED  
IN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_, O.R.

NOTES

- The accuracy of the location of or the existence or non-existence of any utility pipe or structure within the limits of this project does not constitute responsibility by the engineer.
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  - The contractor shall be responsible for coordinating his operations with other contractors and utility companies in the construction area.
  - The contractor shall notify the county service area, engineer, and inspector one week in advance of when he plans to start construction. At that time or any such time prior to that as may be specified by the engineer, the contractor shall submit a schedule of his work showing principal operations and their estimated starting dates. When inspections or engineering judgements become necessary as set forth in the specifications, the contractor shall give at least twenty-four (24) hours notice to the county service area and engineer.
  - No revisions shall be made in these plans without the approval of County Service Area No. 64.
  - Pipe may be vitrified clay pipe (V.C.P.) or reinforced plastic mortar (R.P.M.) conforming to County Service Area No. 64 standard specifications.
  - Maximum pipe lengths and minimum radii for curved sections of sewer shall be:
- | V.C.P. - DIA. | LENGTH | RADIUS | R.P.M. - DIA. | LENGTH | RADIUS |
|---------------|--------|--------|---------------|--------|--------|
| 8"            | 5'     | 125'   | 8"            | 10'    | 125'   |
| 10"           | 5'     | 125'   | 10"           | 10'    | 125'   |
| 12"           | 5'     | 125'   | 12"           | 10'    | 125'   |
| 15"           | 6'     | 172'   | 15"           | 10'    | 125'   |
| 18"           | 6'     | 172'   | 18"           | 10'    | 145'   |
| 21"           | 6'     | 172'   | 21"           | 10'    | 145'   |
| 24"           | 6'     | 172'   | 24"           | 10'    | 145'   |
- Manholes shall be precast concrete per specifications and standard drawings.
  - Contractor shall adjust all manholes in street to finished grade upon completion of paving.
  - "Y" or "T" branches shall be used for connection to main line sewer unless otherwise noted.
  - House laterals to be constructed with inverts at property line ~~5'x~~ (6.0) feet below curb grade to conform with minimum cover shown on standard drawing No. S106, except as noted:
    - Where house lateral is shown thus, "2 + 20, Y-10", 2.00%, it means the lateral shall be constructed at or downstream of that station, with the "Y" laid at 10' and the minimum slope of 2.00% to the property line. (See Note 14 listed below).
    - Where depth is shown, it shall be the invert depth at the property line below curb grade in streets or the finished surface in easements. (H.L.-6')
    - Where an elevation is shown, it shall be the invert elevation at the property line. (H.L. 2850.5)
  - All main line and house lateral sewers crossing under water lines shall comply with standard drawing S100. If encasement is used, it shall comply with standard drawing S104. If cast iron pipe is used, the joint between the cast iron pipe and vitrified clay pipe shall be made with a Calder Coupling or approved equal.
  - Alternate method of chimneys per standard drawing S107 may be used where chimneys are shown; where main line sewer is ten (10) feet or more in depth; or where ground water is present unless otherwise noted.
  - Where Y's are shown to be laid at 10', the first three pipe lengths beginning at the "Y", shall be one foot each with 2-1/2" maximum per joint in the transition from 10' to 2.00%.

AS BUILT  
DATE 4/17/72  
BY Nick Caro

NICK CARO  
Construction Manager  
Boise Casco  
Spring Valley Lake

| COUNTY SERVICE AREA NO. 64                           |  |                                                      |  |
|------------------------------------------------------|--|------------------------------------------------------|--|
| SANITARY SEWERS<br>IN<br>TRACT NO. 8103              |  |                                                      |  |
| Name: <i>William J. Carroll</i> Date: <i>4-17-72</i> |  | Name: <i>William J. Carroll</i> Date: <i>4-17-72</i> |  |
| Title: DISTRICT ENGINEER                             |  | Title: DISTRICT ENGINEER                             |  |
| DESIGNED: <i>William J. Carroll</i>                  |  | APPROVED: <i>William J. Carroll</i>                  |  |
| DRAWN: <i>William J. Carroll</i>                     |  | JOB NO. 4695                                         |  |
| CHECKED: <i>William J. Carroll</i>                   |  | SHEET                                                |  |
| SCALE: HORIZ. 1" = 40' VERT. 1" = 8'                 |  | DATE 4-17-72                                         |  |
|                                                      |  | 1 OF 9                                               |  |

0.3 MILE SOUTH OF INT. BEAR VALLEY  
RD. AND A.T. & S.F. R.R. 442' WEST  
OF W/RAIL OF W/TRACK, 11' SOUTH  
OF TEL. POLE 41GE41.

NOTE: TH  
NUMBERS IN CIRCLES  
INDICATE PAGE NUMBERS

SCALE  
1"=500'

 SEWER CONSTRUCTED

INDEX MAP  
TRACT N<sup>o</sup> 8104

VICINITY MAP

NOT TO SCALE

NOTES

1. The accuracy of the location of or the existence or non-existence of any utility pipe or structure within the limits of this project does not constitute responsibility by the engineer.
2. All work shall conform to specifications and requirements of San Bernardino County Service Area No. 64.
3. The contractor shall be responsible for coordinating his operations with other contractors and utility companies in the construction area.
4. The contractor shall notify the county service area, engineer, and inspector one week in advance of when he plans to start construction. At that time or any such time prior to that as may be specified by the engineer, the contractor shall submit a schedule of his work showing principal operations and their estimated starting dates. When inspections or engineering judgements become necessary as set forth in the specifications, the contractor shall give at least twenty-four (24) hours notice to the county service area and engineer.
5. No revisions shall be made in these plans without the approval of County Service Area No. 64.
6. Pipe may be vitrified clay pipe (V.C.P.) or reinforced plastic mortar (R.P.M.) conforming to County Service Area No. 64 standard specifications.

| V.C.P. - | DIA. | LENGTH | RADIUS | R.F.M.-DIA. | LENGTH | RADIUS |
|----------|------|--------|--------|-------------|--------|--------|
| 8"       | 5'   | 125'   |        | 8"          | 10'    | 125'   |
| 10"      | 5'   | 125'   |        | 10"         | 10'    | 125'   |
| 12"      | 5'   | 125'   |        | 12"         | 10'    | 125'   |
| 15"      | 6'   | 172'   |        | 15"         | 10'    | 125'   |
| 18"      | 6'   | 172'   |        | 18"         | 10'    | 145'   |
| 21"      | 6'   | 172'   |        | 21"         | 10'    | 145'   |
| 24"      | 6'   | 172'   |        | 24"         | 10'    | 145'   |

8. Manholes shall be precast concrete per specifications and standard drawings.
9. Contractor shall adjust all manholes in street to finished grade upon completion of paving.
10. "Y" or "T" branches shall be used for connection to main line sewer unless otherwise noted.
11. House laterals to be constructed with invert at property line ~~5'4"~~ **(6'0")** feet below curb grade to conform with minimum cover shown on standard drawing No. S106, except as noted:
  - a) Where house lateral is shown thus, "2 + 20, Y-10<sup>0</sup>, 2.00%", it means the lateral shall be constructed at or downstream of that station, with the "Y" laid at 10' and the minimum slope of 2.00% to the property line. (See Note 14 listed below).
  - b) Where depth is shown, it shall be the invert depth at the property line below curb grade in streets or the finished surface in easements. (H.L.-6')
  - c) Where an elevation is shown, it shall be the invert elevation at the property line. (H.L. 2850.5)
12. All main line and house lateral sewers crossing under water lines shall comply with standard drawing S100. If encasement is used, it shall comply with standard drawing S104. If cast iron pipe is used, the joint between the cast iron pipe and vitrified clay pipe shall be made with a Calder Coupling or approved equal.
13. Alternate method of chimneys per standard drawing S107 may be used where chimneys are shown; when main line sewer is ten (10) feet or more in depth; or where ground water is present unless otherwise noted.
14. Where Y's are shown to be laid at 10°, the first three pipe lengths beginning at the "Y", shall be one foot each with 2- $\frac{1}{4}$ " maximum per joint in the transition from 10° to 2.00%.

# AS BUILT

DATE 10/5/97  
BY D. A. Co.

AS BUILT

AS BUILT NOTES

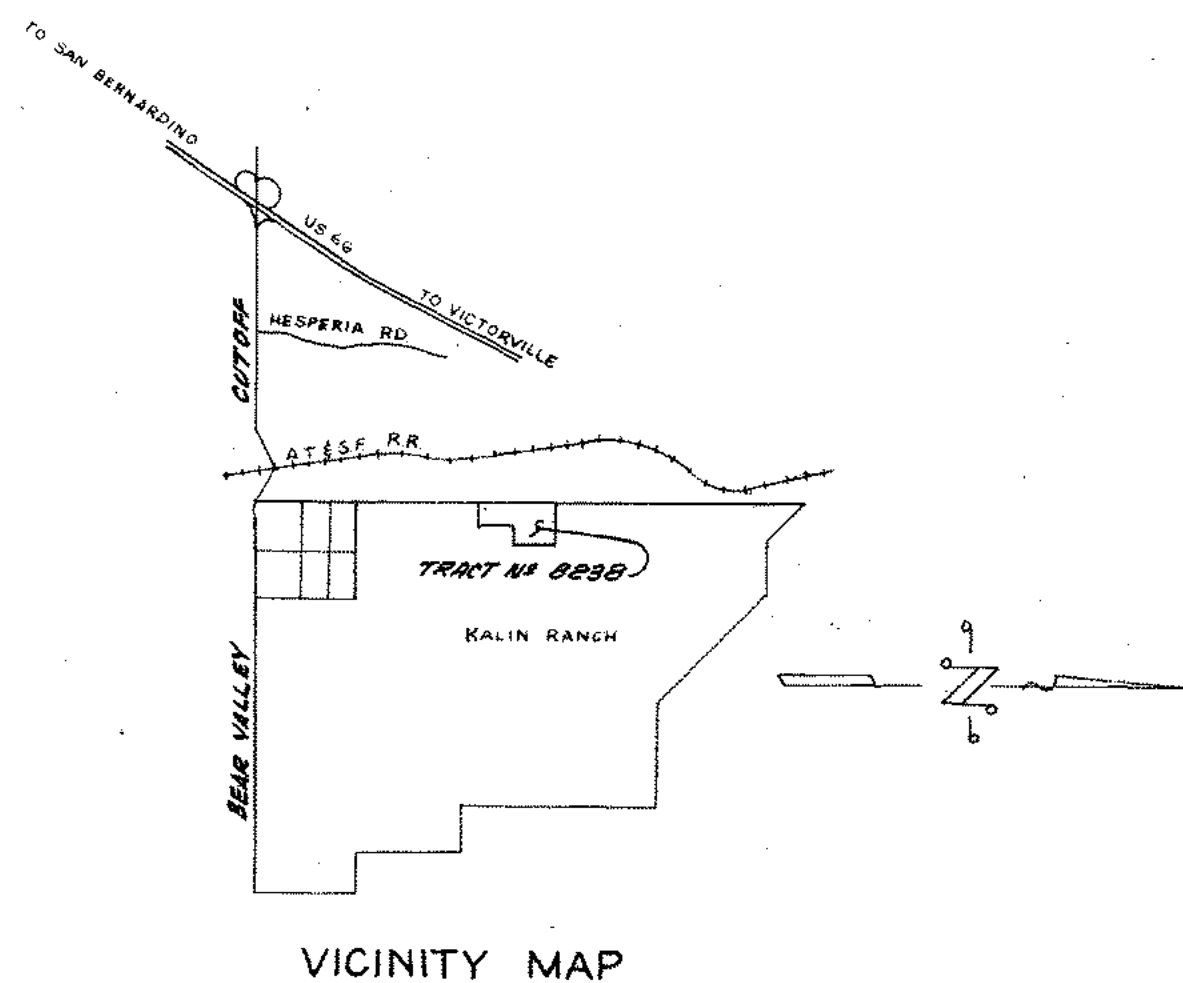
- HOUSE LATERAL NOTES
1. HOUSE LATERALS ARE MEASURED FROM THE NEAREST DOWN STREAM MANHOLE EXCEPT WHERE NOTED.
  2. HOUSE LATERALS ARE 6.0' ± DEEP AT PROPERTY LINE MEASURED FROM TOP OF CURB UNLESS NOTED OTHERWISE IN PARENTHESIS (5.6' ±)

**NOTE**

EASEMENTS AND FACILITIES CONVEYED TO COUNTY  
SERVICE AREA NO. 64 BY DOCUMENTS RECORDED  
IN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_ O.R. \_\_\_\_\_

|                                                                                       |                            |                             |                     |
|---------------------------------------------------------------------------------------|----------------------------|-----------------------------|---------------------|
|  | 5-3-71                     | NAN                         | SHEETS 3, 4, 5 & 16 |
|  | 4-21-71                    | NAN                         | SHEETS 2 & 3        |
| Nº                                                                                    | DATE                       | APPROVED                    | REVISION            |
| COUNTY SERVICE AREA Nº 64                                                             |                            |                             |                     |
| SANITARY SEWERS                                                                       |                            |                             |                     |
| IN                                                                                    |                            |                             |                     |
| TRACT Nº 8104                                                                         |                            |                             |                     |
| COUNTY APPROVAL                                                                       |                            | DISTRICT ENGINEER APPROVAL  |                     |
| Name <i>John G. Jones</i>                                                             | Date <i>4/14/70</i>        | Name <i>Domènec R. Rios</i> | Date <i>4/14/70</i> |
| Title DIRECTOR OF BUILDING SERVICES                                                   |                            | Title DISTRICT ENGINEER     |                     |
| DESIGNED O.E.V.                                                                       |                            | APPROVED                    | JOB Nº <b>4695</b>  |
| DRAWN O.E.V. & J.B.                                                                   | <i>[Signature]</i>         |                             | SHEET               |
| CHECKED N.M.                                                                          | CALIF. R.C.E. <b>14297</b> | DATE <b>1-30-70</b>         | OF <b>8</b>         |
| SCALE: HORIZ. 1" = 40' VERT. 1" = 4' ALL SHEETS                                       |                            |                             |                     |

BM (USCGS) M41 ELEV. 2983.144  
0.3 MILE SOUTH OF INT BEAR VALLEY  
RD. AND AT #5 F R.R. 442' WEST  
OF W/RAIL OF W/TRACK, 11' SOUTH  
OF TEL. POLE 416E41.



NOTES  
NUMBERS IN CIRCLES INDICATE  
PAGE NUMBERS

LOTS 80-87 INCL. ON RAIN SHADOW RD.  
ARE SERVED BY H.I.'S CONSTRUCTED  
BY TRACT NO 8103

1. HOUSE LATERALS ARE MEASURED FROM THE NEAREST DOWN STREAM MANHOLE EXCEPT WHERE NOTED.
2. HOUSE LATERALS ARE 6"± DEEP AT PROPERTY LINE MEASURED FROM TOP OF CURB UNLESS OTHERWISE NOTED IN PARENTHESIS (5.6"±).

1. The accuracy of the location of or the existence or non-existence of any utility pipe or structure within the limits of this project does not constitute responsibility by the engineer.
2. All work shall conform to specifications and requirements of San Bernardino County Service Area No. 64.
3. The contractor shall be responsible for coordinating his operations with other contractors and utility companies in the construction area.
4. The contractor shall notify the county service area, engineer, and inspector one week in advance of when he plans to start construction. At that time or any such time prior to that as may be specified by the engineer, the contractor shall submit a schedule of his work showing principal operations and their estimated starting dates. When inspections or engineering judgements become necessary as set forth in the specifications, the contractor shall give at least twenty-four (24) hours notice to the county service area and engineer.
5. No revisions shall be made in these plans without the approval of County Service Area No. 64.
6. Pipe may be vitrified clay pipe (V.C.P.) or reinforced plastic mortar (R.P.M.) conforming to County Service Area No. 64 standard specifications.
7. Maximum pipe lengths and minimum radii for curved sections of sewer shall be:

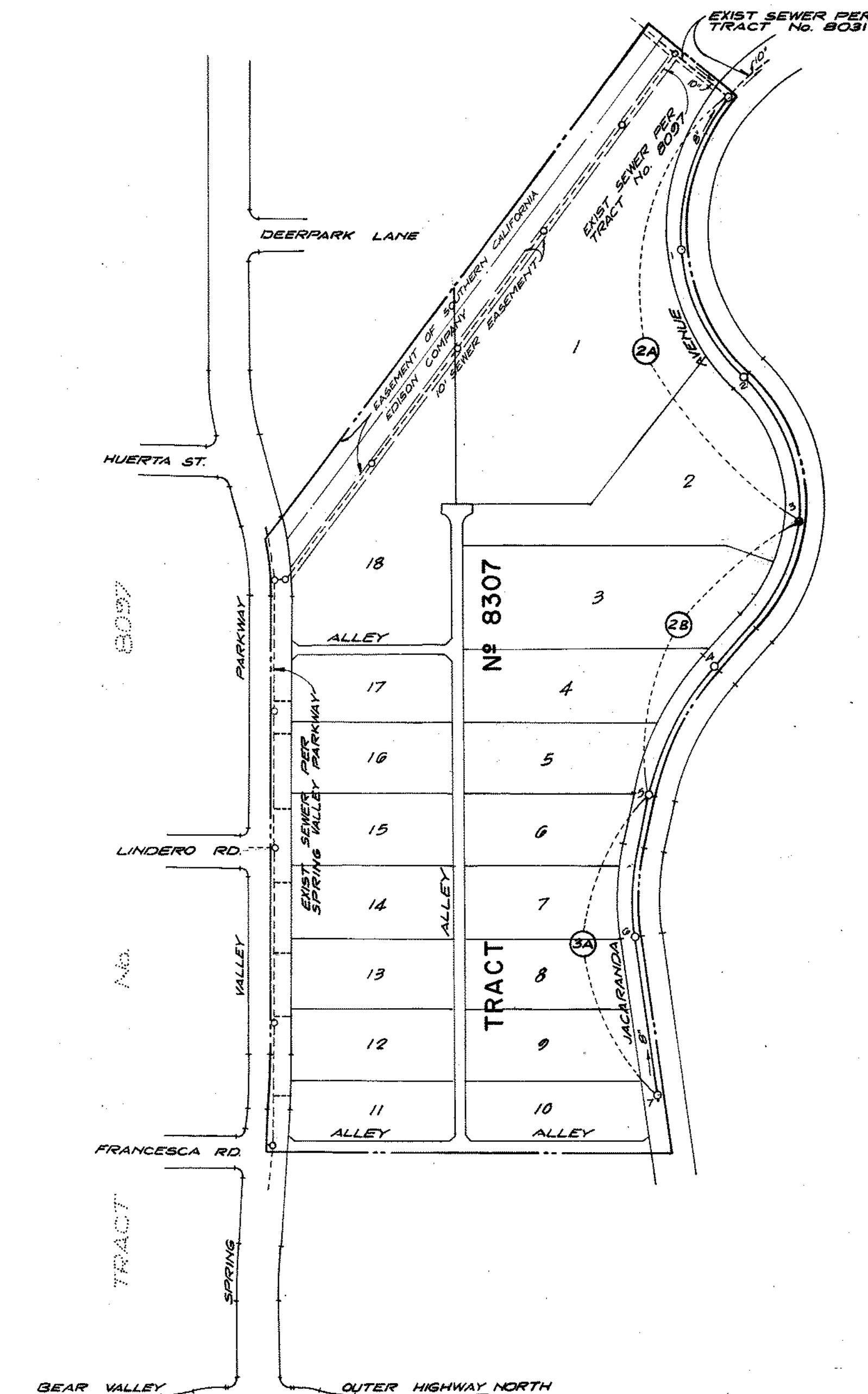
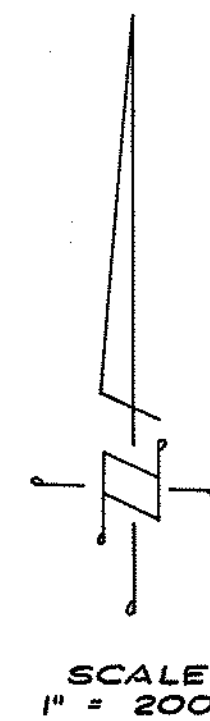
8. Manholes shall be precast concrete per specifications and standard drawings.
9. Contractor shall adjust all manholes in street to finished grade upon completion of paving.
10. "Y" or "T" branches shall be used for connection to main line sewer unless otherwise noted.
11. House laterals to be constructed with inverts at property line six (6.0) feet below curb grade to conform with minimum cover shown on standard drawing No. S 106, except as noted.
  - a) Where house lateral is shown thus, "2 + 20, Y-10", 2.00%", it means the lateral shall be constructed at or downstream of that station, with the "Y" laid at 10 and the minimum slope of 2.00% to the property line.
  - b) Where depth is shown, it shall be the invert depth at the property line below curb grade in streets or the finished surface in easements. (H.L.-6')
  - c) Where an elevation is shown, it shall be the invert elevation at the property line. (H.L. 2850.5)
12. All main line and house lateral sewers crossing under water lines shall comply with standard drawing S100. If encasement is used, it shall comply with standard drawing S104. If cast iron pipe is used, the joint between the cast iron pipe and vitrified clay pipe shall be made with a Calder Coupling or approved equal.
13. Alternate method of chimneys per standard drawing S107 may be used where chimneys are shown; where main line sewer is ten (10) feet or more in depth; or where ground water is present unless otherwise noted.

EASEMENTS AND FACILITIES CONVEYED TO COUNTY  
SERVICE AREA NO. 64 BY DOCUMENTS RECORDED  
IN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_, O.R.

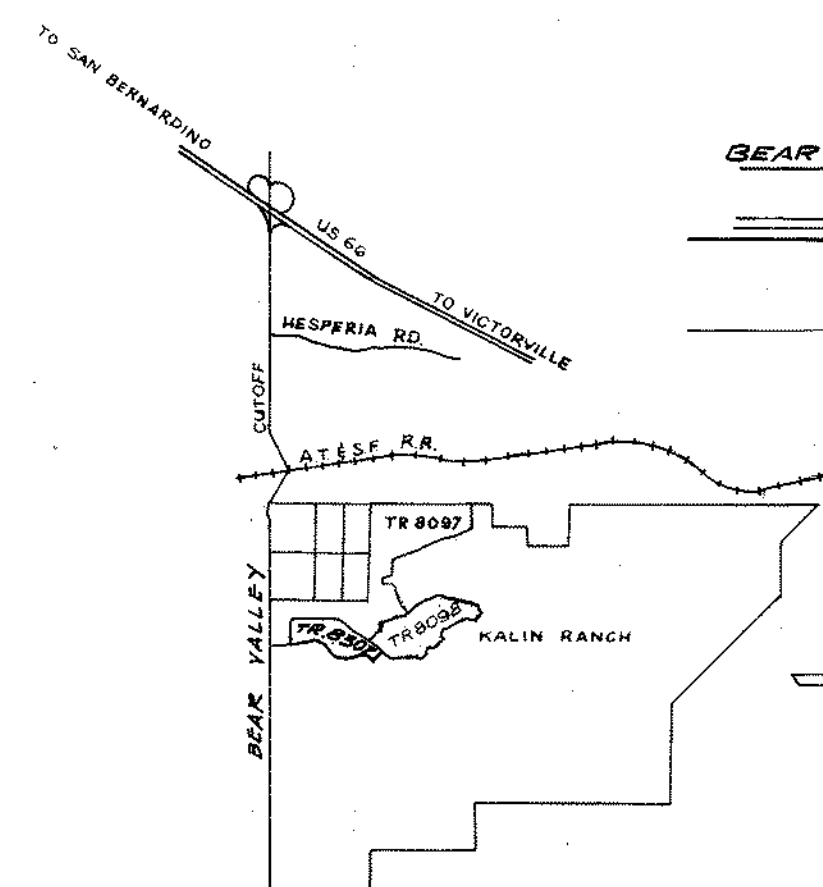
NICK CARO  
Construction Manager  
Boise Cascade  
Spring Valley Lake

|                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                                            |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------|--|
| COUNTY SERVICE AREA N° 64                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                                                            |  |
| <h1 style="text-align: center;">SANITARY SEWERS</h1> <h2 style="text-align: center;">IN</h2> <h2 style="text-align: center;">TRACT N° 8238</h2>                                                                                                                                                                                                                                                               |  |                                                                                                            |  |
| COUNTY APPROVAL<br>Name: <i>W. D. Galloway</i> Date: <i>11/30/70</i><br>Title: DIRECTOR OF BUILDING SERVICES                                                                                                                                                                                                                                                                                                  |  | DISTRICT ENGINEER APPROVAL<br>Name: <i>Norman Albert</i> Date: <i>11/30/70</i><br>Title: DISTRICT ENGINEER |  |
| <div style="display: flex; justify-content: space-between;"> <div> <p>DESIGNED <i>RS</i></p> <p>DRAWN <i>RG</i></p> <p>CHECKED <i>NM</i></p> <p>SCALE: HORZ. 1" = 40' VERT. 1" = 8'</p> </div> <div> <p>APPROVED</p> <p><i>W. David Wagner</i></p> <p>CALIF. R.C.E. <i>14375</i></p> <p>DATE <i>2-17-70</i></p> </div> <div> <p>JOB N° <i>5241</i></p> <p>SHEET</p> <p><i>1</i> OF <i>9</i></p> </div> </div> |  |                                                                                                            |  |

BM (USC&GS) M41 ELEV. 2983.144  
0.3 MILE SOUTH OF INT. BEAR VALLEY  
RD. AND AT 1/2 SE. R.R. 442 WEST  
OF W/RAIL OF W/TRACT, 11' SOUTH  
OF TEL. POLE 416E41.

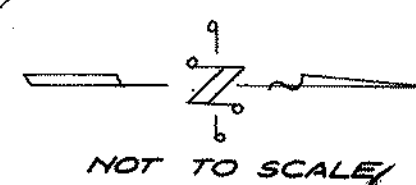


NOTE:  
LOTS 11-18 INCL., ARE SERVED BY  
EXISTING SEWERS CONSTRUCTED  
UNDER SPRING VALLEY PARKWAY  
AND TRACT NO. 8037 SEWER PLANS.



VICINITY MAP

INDEX MAP  
TRACT NO 8307



NOT TO SCALE

AS BUILT NOTES

1. HOUSE LATERALS ARE MEASURED FROM THE NEAREST DOWN STREAM MANHOLE EXCEPT WHERE NOTED.
2. HOUSE LATERALS ARE 6'± DEEP AT PROPERTY LINE MEASURED FROM TOP OF CURB UNLESS OTHERWISE NOTED IN PARENTHESIS. (5.6'±)

NOTE

EASEMENTS AND FACILITIES CONVEYED TO COUNTY  
SERVICE AREA NO. 64 BY DOCUMENTS RECORDED  
IN BOOK \_\_\_\_\_ PAGE \_\_\_\_\_, O.R.

NOTES

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5. No revisions shall be made in these plans without the approval of County Service Area No. 64.
6. Pipe may be vitrified clay pipe (V.C.P.) or reinforced plastic mortar (R.P.M.) conforming to County Service Area No. 64 standard specifications.
7. Maximum pipe lengths and minimum radii for curved sections of sewer shall be:

| V.C.P. - | DIA. | LENGTH | RADIUS | R.P.M. - | DIA. | LENGTH | RADIUS |
|----------|------|--------|--------|----------|------|--------|--------|
| 8"       | 5'   | 125'   | 125'   | 8"       | 10'  | 125'   | 125'   |
| 10"      | 5'   | 125'   | 125'   | 10"      | 10'  | 125'   | 125'   |
| 12"      | 5'   | 125'   | 125'   | 12"      | 10'  | 125'   | 125'   |
| 15"      | 6'   | 172'   | 172'   | 15"      | 10'  | 115'   | 115'   |
| 18"      | 6'   | 172'   | 172'   | 18"      | 10'  | 145'   | 145'   |
| 21"      | 6'   | 172'   | 172'   | 21"      | 10'  | 145'   | 145'   |
| 24"      | 6'   | 172'   | 172'   | 24"      | 10'  | 145'   | 145'   |

8. Manholes shall be precast concrete per specifications and standard drawings.
9. Contractor shall adjust all manholes in street to finished grade upon completion of paving.
10. "Y" or "T" branches shall be used for connection to main line sewer unless otherwise noted.
11. House laterals to be constructed with inverts at property line six (6.0) feet below top of curb grade to conform with minimum cover shown on standard drawing No. S106, except as noted:
  - a) Where house lateral is shown thus, "2 + 20, Y-10", 2.00%, it means the lateral shall be constructed at or downstream of that station, with the "Y" laid at 10' and the minimum slope of 2.00% to the property line.
  - b) Where depth is shown, it shall be the invert depth at the property line below curb grade in streets or the finished surface in easements. (H.L.-6')
  - c) Where an elevation is shown, it shall be the invert elevation at the property line. (H.L. 2850.5)
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13. Alternate method of chimneys per standard drawing S107 may be used where chimneys are shown; where main line sewer is ten (10) feet or more in depth; or where ground water is present unless otherwise noted.

AS BUILT

DATE 5/18/71  
BY Nick Caro

NICK CARO  
Construction Manager  
Boise Cascade  
Spring Valley Lake

AS BUILT

COUNTY SERVICE AREA NO 64

SANITARY SEWERS  
IN  
TRACT NO 8307

|                                                                                                            |                |                                                                                                     |                                 |
|------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------|---------------------------------|
| COUNTY APPROVAL<br>Name: <i>William J. Boschetti</i> Date: 5/18/71<br>Title: DIRECTOR OF BUILDING SERVICES |                | DISTRICT ENGINEER APPROVAL<br>Name: <i>Norman A. Galt</i> Date: 5/18/71<br>Title: DISTRICT ENGINEER |                                 |
| DESIGNED J. G. BOSCHETTI                                                                                   | DRAWN J. G. B. | CHECKED N. M. SINNIS                                                                                | APPROVED <i>J. G. Boschetti</i> |
| CALIF. R.C.E. 12297                                                                                        |                | DATE 5/18/71                                                                                        |                                 |
| SCALE: HORIZ. 1" = 40'                                                                                     |                | VERT. 1" = 8'                                                                                       |                                 |
| JOB NO 5578                                                                                                |                | SHEET 1 OF 3                                                                                        |                                 |

# **APPENDIX D: CURRENT LIST OF STAFF AND POSITIONS**



## COLLECTIONS

| EMPLOYEE NAME     | GRADE | CERT. #   | EXP. DATE |
|-------------------|-------|-----------|-----------|
| Green, John       | IV    | 4072279   | 3/31/2018 |
| Bon, Randy        | III   | 4012303   | 1/31/2018 |
| Green, Lisa       | III   | 4012307   | 1/31/2018 |
| Renison, Robert   | III   | 541       | 7/31/2017 |
| Sacks, Lance      | II    | 60722003  | 7/31/2017 |
| Samaras, Stephen  | II    | 70122070  | 1/31/2018 |
| Sanders, Tracy    | II    | 100422006 | 4/30/2018 |
| Aguilera, Eduardo | I     | 80721112  | 7/31/2018 |
| Bishop, Chris     | I     | 80721048  | 7/31/2018 |
| Fish, John        | I     | 80721073  | 7/31/2018 |
| Mcneill, Dennis A | I     | 80721113  | 7/31/2018 |
|                   |       |           |           |

## Water Treatment Operator

| EMPLOYEE NAME     | GRADE | CERT. # | EXP. DATE |
|-------------------|-------|---------|-----------|
| Huss, Kerry       | T4    | 15802   | 4/1/2020  |
| Samaras, Stephen  | T4    | 16331   | 12/1/2019 |
| Aguilera, Eduardo | T2    | 27492   | 1/1/2018  |
| Bishop, Chris     | T2    | 22087   | 7/1/2020  |
| Coleman, Chad     | T2    | 34066   | 1/1/2018  |
| Eleasaro, Akeimo  | T2    | 30951   | 2/1/2019  |
| Fish, John        | T2    | 28546   | 7/1/2018  |
| Green, Lisa       | T2    | 30602   | 7/1/2019  |
| Mcneill, Dennis A | T2    | 28438   | 2/1/2019  |
| Murphy, Ryan      | T2    | 30190   | 6/1/2019  |
| Nolan, Michael    | T2    | 24197   | 1/1/2020  |
| Palmer, Gerald    | T2    | 21450   | 1/1/2020  |
| Renison, Robert   | T2    | 22987   | 10/1/2018 |
| Sanchez, Ricardo  | T2    | 33046   | 7/1/2020  |
| Sanders, Tracy    | T2    | 31243   | 4/1/2019  |
| Welch, Kevin      | T2    | 19766   | 11/1/2017 |
| Galvin, Timothy   | T1    | 11481   | 10/1/2019 |
| Gerke, Brian      | T1    | 27937   | 8/1/2018  |
| Heaton, Don       | T1    | 26510   | 7/1/2017  |
| Moore, John Tim   | T1    | 26575   | 4/1/2019  |
| Olguin, Gus       | T1    | 31871   | 6/1/2019  |
|                   |       |         |           |

## Water Distributon Operator

| EMPLOYEE NAME     | GRADE | CERT. # | EXP. DATE |
|-------------------|-------|---------|-----------|
| Samaras, Stephen  | D5    | 7692    | 1/1/2020  |
| Aguilera, Eduardo | D4    | 30042   | 1/1/2018  |
| Bishop, Chris     | D4    | 9015    | 5/1/2020  |
| Fish, John        | D4    | 33100   | 12/1/2017 |
| Green, Lisa       | D4    | 35576   | 4/1/2019  |
| Huss, Kerry       | D4    | 14291   | 8/1/2020  |

|                   |    |       |           |
|-------------------|----|-------|-----------|
| Eleasaro, Akeimo  | D4 | 35693 | 3/1/2019  |
| Gerke, Brian      | D3 | 17658 | 1/1/2018  |
| Mcneill, Dennis A | D3 | 22223 | 3/1/2020  |
| Murphy, Ryan      | D3 | 30163 | 5/1/2019  |
| Sanders, Tracy    | D3 | 35464 | 6/1/2018  |
| Cabel, Teodulo    | D2 | 40977 | 4/1/2018  |
| Coleman, Chad     | D2 | 14137 | 5/1/2018  |
| Moore, John Tim   | D2 | 29532 | 5/1/2018  |
| Nolan, Michael    | D2 | 16612 | 4/1/2019  |
| Palmer, Gerald    | D2 | 22227 | 8/1/2019  |
| Renison, Robert   | D2 | 9434  | 10/1/2018 |
| Sanchez, Ricardo  | D2 | 38865 | 3/1/2020  |
| Welch, Kevin      | D2 | 9987  | 8/1/2018  |
| Olguin, Gus       | D2 | 38861 | 11/1/2019 |
| Bon, Randy        | D1 | 41737 | 11/1/2018 |
| Galvin, Timothy   | D1 | 28625 | 12/1/2019 |
| Heaton, Don       | D1 | 28208 | 12/1/2016 |
| Ledesma, Gabriel  | D1 | 37155 | 11/1/2018 |
| Martin, Cynthia   | D1 | 37563 | 5/1/2019  |
|                   |    |       |           |

#### Plant Operator

| EMPLOYEE NAME   | GRADE | CERT. # | EXP. DATE  |
|-----------------|-------|---------|------------|
| Huss, Kerry     | G V   | 7446    | 12/31/2018 |
| Renison, Robert | G IV  | 4417    | 6/30/2017  |
| Olguin, Gus     | G II  | 8765    | 6/30/2018  |
|                 |       |         |            |

#### Electrician

| EMPLOYEE NAME | GRADE | CERT. # | EXP. DATE |
|---------------|-------|---------|-----------|
| Welch, Kevin  | C-10  | 674918  | 7/31/2019 |
|               |       |         |           |

#### General Electrician

| EMPLOYEE NAME  | GRADE | CERT. # | EXP. DATE  |
|----------------|-------|---------|------------|
| Mieras, Daniel |       | 110535  | 12/10/2018 |
|                |       |         |            |

#### Mechanical Technologist

| EMPLOYEE NAME   | GRADE | CERT. # | EXP. DATE |
|-----------------|-------|---------|-----------|
| Renison, Robert | 1     | 289     | 7/31/2017 |
|                 |       |         |           |

#### Electrical/Instrumentation Technologist

| EMPLOYEE NAME   | GRADE | CERT. # | EXP. DATE |
|-----------------|-------|---------|-----------|
| Renison, Robert | 1     | 33      | 1/31/2018 |
|                 |       |         |           |

#### Backflow Prevention

| EMPLOYEE NAME     | GRADE | CERT. # | EXP. DATE |
|-------------------|-------|---------|-----------|
| Aguilera, Eduardo | 0     | 32512   | 3/31/2020 |

|                  |   |         |            |
|------------------|---|---------|------------|
| Bon, Randy       | 0 | 482/500 | 12/31/2018 |
| Green, Lisa      | 0 | 32532   | 3/31/2020  |
| Green, John      | 0 | 32526   | 3/31/2020  |
| Samaras, Stephen | 0 | 32436   | 12/31/2018 |
| Coleman, Chad    | 0 | 32964   | 6/31/2020  |
|                  |   |         |            |

### Cross Connection Specialist

| EMPLOYEE NAME     | GRADE | CERT. #       | EXP. DATE |
|-------------------|-------|---------------|-----------|
| Aguilera, Eduardo | 0     | BMI-12-0103-S | 12/1/0000 |
| Bon, Randy        | 0     | BMI-12-0101-S | 12/1/0000 |
| Green, Lisa       | 0     | BMI-12-0102-S | 12/1/0000 |
| Samaras, Stephen  | 0     | BMI-12-0100-S | 12/1/0000 |
| Coleman, Chad     | 0     | 2215          | 12/1/0000 |

# APPENDIX E: CIWQS REPORTS FOR CSA 64




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You are logged-in as: Randybon68 . If this account does not belong to you, please log out.

**SSO - No Spill Certification** [?](#) [SSO Menu](#)

**Regional Water Board:** Region 6B - Victorville  
**Agency:** San Bernardino Cnty Special Districts  
**Sanitary Sewer System:** CSA 64 CS (Spring Valley Lake)  
**WDID:** 6SSO11379

**No Spill Certification:**

I certify under penalty of law that no spills occurred for the month specified below. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine or imprisonment, for knowing violations. Clicking the "Certify" button below indicates my certification of this report and my understanding of the above conditions.

Month/Year Without Spills: \*  - Select Month -  - Select Year -

Certifier Name: \*

Certifier Title: \*

Executed On: \*  08/28/2017

Executed At: \*

**Previously Submitted Months with "No Spill Certification"**

| Confirmation Number | No Spill Certificate for the Month of | Entered Date/Time   | Certified UserID | Certified Name |
|---------------------|---------------------------------------|---------------------|------------------|----------------|
| 2493728             | July 2017                             | 2017-08-28 09:17:13 | Randy Bon        | Randy Bon      |
| 2491710             | June 2017                             | 2017-08-01 07:42:09 | Randy Bon        | Randy Bon      |
| 2488283             | May 2017                              | 2017-06-16 14:39:33 | Randy Bon        | Randy Bon      |
| 2484762             | April 2017                            | 2017-05-10 08:13:58 | Randy Bon        | Randy Bon      |
| 2482453             | March 2017                            | 2017-04-10 11:41:59 | Randy Bon        | Randy Bon      |
| 2480752             | February 2017                         | 2017-03-20 14:00:07 | Randy Bon        | Randy Bon      |
| 2478359             | January 2017                          | 2017-02-23 07:15:36 | Randy Bon        | Randy Bon      |
| 2473900             | December 2016                         | 2017-01-06 15:07:00 | Randy Bon        | Randy Bon      |
| 2473946             | November 2016                         | 2017-01-09 08:45:53 | Randy Bon        | Randy Bon      |
| 2473947             | October 2016                          | 2017-01-09 08:46:23 | Randy Bon        | Randy Bon      |
| 2467599             | September 2016                        | 2016-10-13 07:26:07 | Steve Samaras    | Steve Samaras  |
| 2465694             | August 2016                           | 2016-09-26 15:31:38 | Greg Snyder      | snydal         |
| 2465693             | July 2016                             | 2016-09-26 15:30:57 | Greg Snyder      | snydal         |
| 2465692             | June 2016                             | 2016-09-26 15:30:06 | Greg Snyder      | snydal         |
| 2465691             | May 2016                              | 2016-09-26 15:29:12 | Greg Snyder      | snydal         |
| 2456558             | April 2016                            | 2016-05-23 13:47:59 | Greg Snyder      | snydal         |
| 2456556             | March 2016                            | 2016-05-23 13:47:39 | Greg Snyder      | snydal         |
| 2456555             | February 2016                         | 2016-05-23 13:47:16 | Greg Snyder      | snydal         |
| 2456554             | January 2016                          | 2016-05-23 13:46:55 | Greg Snyder      | snydal         |
| 2456553             | December 2015                         | 2016-05-23 13:46:39 | Greg Snyder      | snydal         |
| 2456552             | November 2015                         | 2016-05-23 13:46:25 | Greg Snyder      | snydal         |
| 2456551             | October 2015                          |                     | Greg Snyder      | snydal         |

|         |                |                        |               |                |
|---------|----------------|------------------------|---------------|----------------|
|         |                | 2016-05-23<br>13:46:09 |               |                |
| 2456550 | September 2015 | 2016-05-23<br>13:45:50 | Greg Snyder   | snydal         |
| 2456549 | August 2015    | 2016-05-23<br>13:45:31 | Greg Snyder   | snydal         |
| 2456548 | July 2015      | 2016-05-23<br>13:45:09 | Greg Snyder   | snydal         |
| 2432799 | June 2015      | 2015-07-21<br>17:42:55 | Greg Snyder   | Gregory Snyder |
| 2432798 | May 2015       | 2015-07-21<br>17:42:27 | Greg Snyder   | Gregory Snyder |
| 2428387 | April 2015     | 2015-05-15<br>11:44:31 | Greg Snyder   | Gregory Snyder |
| 2428386 | March 2015     | 2015-05-15<br>11:44:09 | Greg Snyder   | Gregory Snyder |
| 2422038 | January 2015   | 2015-02-27<br>13:12:29 | Steve Samaras | Steve Samaras  |
| 2417078 | December 2014  | 2015-01-02<br>14:37:19 | Steve Samaras | Steve Samaras  |
| 2417077 | November 2014  | 2015-01-02<br>14:36:46 | Steve Samaras | Steve Samaras  |
| 2413397 | October 2014   | 2014-12-01<br>09:51:45 | Steve Samaras | Steve Samaras  |
| 2407748 | September 2014 | 2014-10-02<br>10:36:57 | Steve Samaras | Steve Samaras  |
| 2407747 | August 2014    | 2014-10-02<br>10:36:23 | Steve Samaras | Steve Samaras  |
| 2402150 | July 2014      | 2014-08-02<br>07:26:29 | Steve Samaras | Steve Samaras  |
| 2402149 | June 2014      | 2014-08-02<br>07:25:58 | Steve Samaras | Steve Samaras  |
| 2396330 | May 2014       | 2014-06-04<br>07:41:12 | Steve Samaras | Steve Samaras  |
| 2392255 | April 2014     | 2014-05-02<br>06:45:08 | Steve Samaras | Steve Samaras  |
| 2392254 | March 2014     | 2014-05-02<br>06:44:28 | Steve Samaras | Steve Samaras  |
| 2388680 | February 2014  | 2014-03-28<br>07:42:49 | Steve Samaras | Steve Samaras  |
| 2388679 | January 2014   | 2014-03-28<br>07:42:20 | Steve Samaras | Steve Samaras  |
| 2380756 | December 2013  | 2014-01-05<br>09:24:31 | Steve Samaras | Steve Samaras  |
| 2380755 | November 2013  | 2014-01-05<br>09:23:55 | Steve Samaras | Steve Samaras  |
| 2375607 | October 2013   | 2013-11-03<br>08:05:25 | Steve Samaras | Steve Samaras  |
| 2372782 | September 2013 | 2013-10-03<br>11:52:20 | Steve Samaras | Steve Samaras  |
| 2370246 | August 2013    | 2013-09-03<br>07:45:55 | Steve Samaras | Steve Samaras  |
| 2367048 | July 2013      | 2013-08-01<br>15:53:48 | Steve Samaras | Steve Samaras  |
| 2364662 | June 2013      | 2013-07-07<br>07:12:13 | Steve Samaras | Steve Samaras  |
| 2359539 | April 2013     | 2013-05-06<br>17:20:55 | Steve Samaras | Steve Samaras  |
| 2356357 | March 2013     | 2013-04-01<br>07:53:00 | Steve Samaras | Steve Samaras  |
| 2356356 | February 2013  | 2013-04-01<br>07:51:41 | Steve Samaras | Steve Samaras  |
| 2356355 | January 2013   | 2013-04-01<br>07:50:32 | Steve Samaras | Steve Samaras  |
| 2350202 | December 2012  | 2013-01-11<br>09:44:35 | Steve Samaras | Steve Samaras  |
| 2348759 | November 2012  | 2012-12-21<br>13:13:26 | Steve Samaras | Steve Samaras  |
| 2345472 | October 2012   | 2012-11-06<br>06:58:16 | Steve Samaras | Steve Samaras  |
| 2342546 | September 2012 | 2012-10-03<br>05:38:59 | Steve Samaras | Steve Samaras  |
|         |                |                        |               |                |

|         |                |                        |               |                   |
|---------|----------------|------------------------|---------------|-------------------|
| 2339611 | August 2012    | 2012-09-01<br>07:34:30 | Steve Samaras | Steve Samaras     |
| 2339610 | July 2012      | 2012-09-01<br>07:33:33 | Steve Samaras | Steve Samaras     |
| 2331482 | June 2012      | 2012-07-05<br>07:43:57 | Steve Samaras | Steve Samaras     |
| 2328377 | May 2012       | 2012-06-07<br>06:03:14 | Steve Samaras | Steve Samaras     |
| 2326859 | April 2012     | 2012-05-28<br>05:43:16 | Steve Samaras | Steve Samaras     |
| 2321611 | March 2012     | 2012-04-06<br>06:28:34 | Steve Samaras | Samaras,<br>Steve |
| 2318587 | February 2012  | 2012-03-08<br>06:57:10 | Steve Samaras | Steve Samaras     |
| 2315588 | January 2012   | 2012-02-06<br>10:59:54 | Steve Samaras | Steve Samaras     |
| 2312561 | December 2011  | 2012-01-10<br>07:08:13 | Steve Samaras | Steve Samaras     |
| 2308414 | November 2011  | 2011-12-05<br>07:43:56 | Steve Samaras | Steve Samaras     |
| 2305939 | October 2011   | 2011-11-08<br>05:44:18 | Steve Samaras | Steve Samaras     |
| 2303038 | September 2011 | 2011-10-05<br>14:42:33 | Steve Samaras |                   |
| 2300124 | August 2011    | 2011-09-08<br>07:37:00 | Steve Samaras |                   |
| 2296944 | July 2011      | 2011-08-08<br>07:47:37 | Steve Samaras |                   |
| 2293251 | June 2011      | 2011-07-01<br>10:15:31 | Steve Samaras |                   |
| 2289777 | May 2011       | 2011-06-02<br>06:09:34 | Steve Samaras |                   |
| 2286674 | April 2011     | 2011-05-10<br>07:16:51 | Steve Samaras |                   |
| 2282853 | March 2011     | 2011-04-07<br>06:16:16 | Steve Samaras |                   |
| 2279340 | February 2011  | 2011-03-10<br>06:10:05 | Steve Samaras |                   |
| 2274903 | January 2011   | 2011-02-07<br>08:29:15 | Steve Samaras |                   |
| 2271803 | December 2010  | 2011-01-12<br>06:40:11 | Steve Samaras |                   |
| 2268707 | November 2010  | 2010-12-10<br>08:10:53 | Steve Samaras |                   |
| 2263445 | October 2010   | 2010-11-12<br>06:28:30 | Steve Samaras |                   |
| 2260846 | September 2010 | 2010-10-19<br>13:08:08 | Steve Samaras |                   |
| 2255720 | August 2010    | 2010-09-03<br>16:04:54 | Steve Samaras |                   |
| 2251528 | July 2010      | 2010-08-03<br>11:07:44 | Steve Samaras |                   |
| 2247713 | June 2010      | 2010-07-07<br>20:45:38 | Steve Samaras |                   |
| 2244111 | May 2010       | 2010-06-08<br>16:30:55 | Steve Samaras |                   |
| 2240772 | April 2010     | 2010-05-11<br>06:36:27 | Steve Samaras |                   |
| 2235951 | March 2010     | 2010-04-02<br>07:11:34 | Steve Samaras |                   |
| 2232529 | February 2010  | 2010-03-05<br>06:35:50 | Steve Samaras |                   |
| 2229178 | January 2010   | 2010-02-10<br>06:07:16 | Steve Samaras |                   |
| 2218642 | November 2009  | 2009-12-18<br>08:15:22 | Bill Stone    |                   |
| 2211896 | October 2009   | 2009-11-02<br>15:26:43 | Bill Stone    |                   |
| 2207571 | September 2009 | 2009-10-09<br>10:26:30 | Bill Stone    |                   |
| 2200602 | August 2009    | 2009-09-03<br>12:11:08 | Bill Stone    |                   |
|         |                |                        |               |                   |

|         |                |                        |               |  |
|---------|----------------|------------------------|---------------|--|
| 2195094 | July 2009      | 2009-08-06<br>18:09:40 | Bill Stone    |  |
| 2183819 | June 2009      | 2009-07-06<br>10:37:08 | Bill Stone    |  |
| 831404  | May 2009       | 2009-06-03<br>16:02:51 | Bill Stone    |  |
| 825235  | April 2009     | 2009-05-04<br>16:18:15 | Bill Stone    |  |
| 821443  | March 2009     | 2009-04-06<br>14:35:59 | Bill Stone    |  |
| 818790  | February 2009  | 2009-03-17<br>09:26:03 | Bill Stone    |  |
| 813923  | January 2009   | 2009-02-05<br>14:14:04 | Bill Stone    |  |
| 811286  | December 2008  | 2009-01-15<br>12:10:20 | Bill Stone    |  |
| 807878  | November 2008  | 2008-12-16<br>15:11:38 | Kathy Whalen  |  |
| 803565  | October 2008   | 2008-11-14<br>15:00:29 | Kathy Whalen  |  |
| 800748  | September 2008 | 2008-10-20<br>15:22:43 | Kathy Whalen  |  |
| 796862  | August 2008    | 2008-09-18<br>10:25:39 | Kathy Whalen  |  |
| 791402  | July 2008      | 2008-08-13<br>15:41:23 | Kathy Whalen  |  |
| 780172  | June 2008      | 2008-07-07<br>11:03:56 | Kathy Whalen  |  |
| 758406  | May 2008       | 2008-06-04<br>13:14:05 | Kathy Whalen  |  |
| 750145  | April 2008     | 2008-05-09<br>11:35:41 | Kathy Whalen  |  |
| 742984  | March 2008     | 2008-04-08<br>16:00:24 | Kathy Whalen  |  |
| 734714  | February 2008  | 2008-03-05<br>11:35:32 | Kathy Whalen  |  |
| 726045  | January 2008   | 2008-02-11<br>14:19:22 | Kathy Whalen  |  |
| 726044  | January 2008   | 2008-02-11<br>14:18:52 | Kathy Whalen  |  |
| 692368  | November 2007  | 2007-11-07<br>09:40:22 | Kathy Whalen  |  |
| 699959  | October 2007   | 2007-12-03<br>13:37:23 | Kathy Whalen  |  |
| 2269537 | September 2007 | 2010-12-20<br>06:51:45 | Steve Samaras |  |

# **APPENDIX F: SPRING VALLEY LAKE LOCATION MAP**



## APPENDIX F – CSA 64 - Spring Valley Lake Location Map



# **ATTACHMENT G: CSA 64 SPRING VALLEY LAKE WASTEWATER MAP**

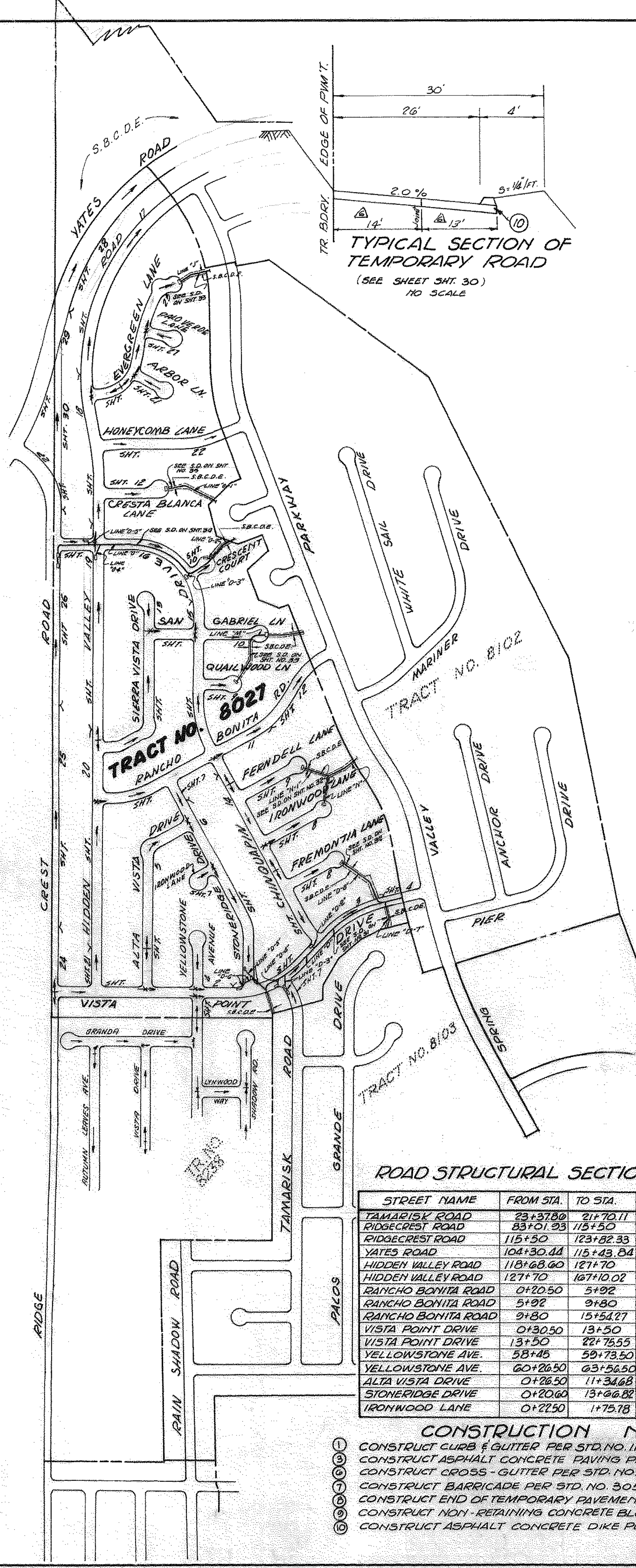


APPENDIX G – CSA 64 - Spring Valley Lake Wastewater System Map

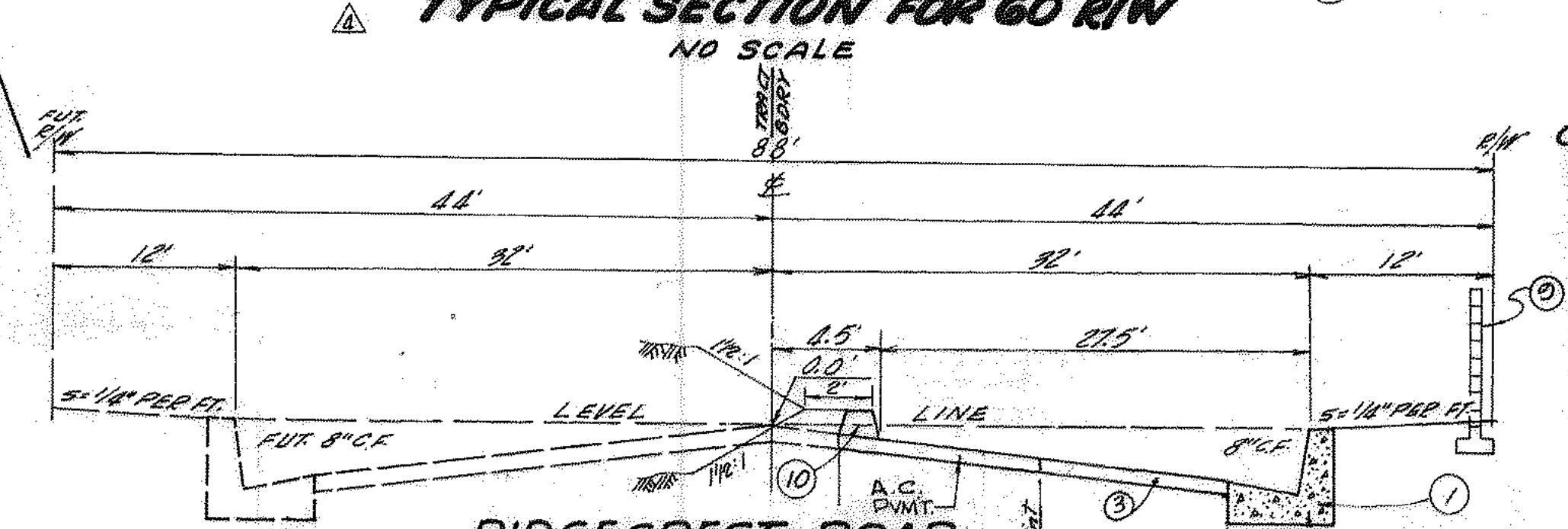
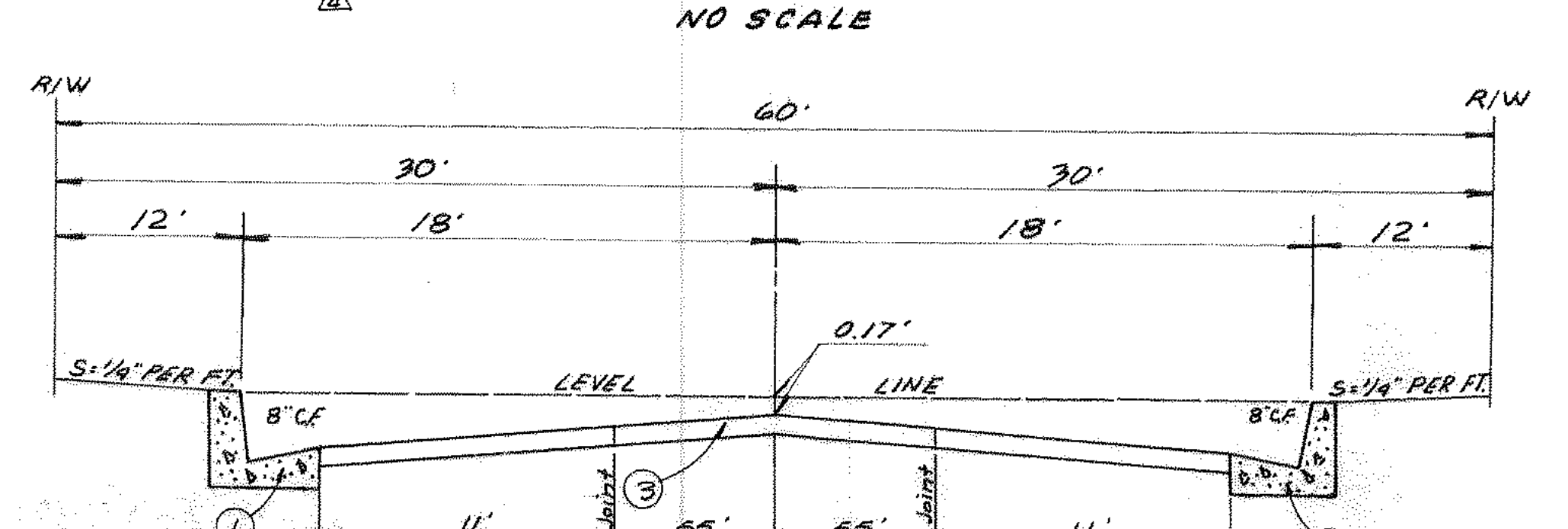
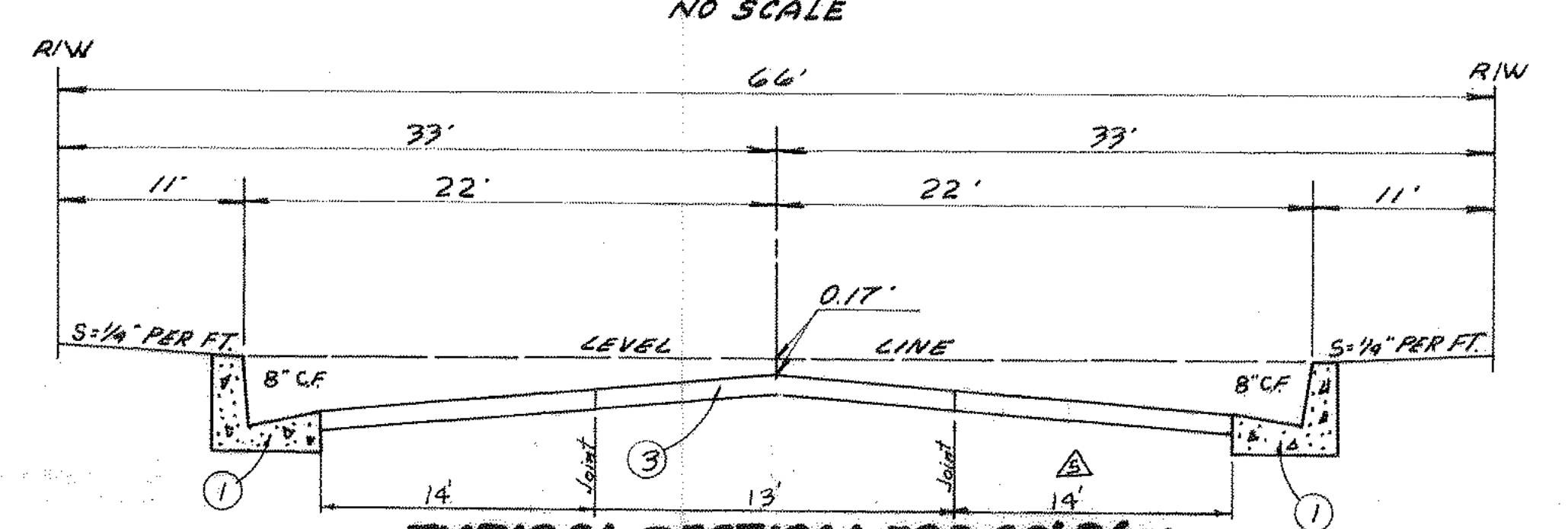
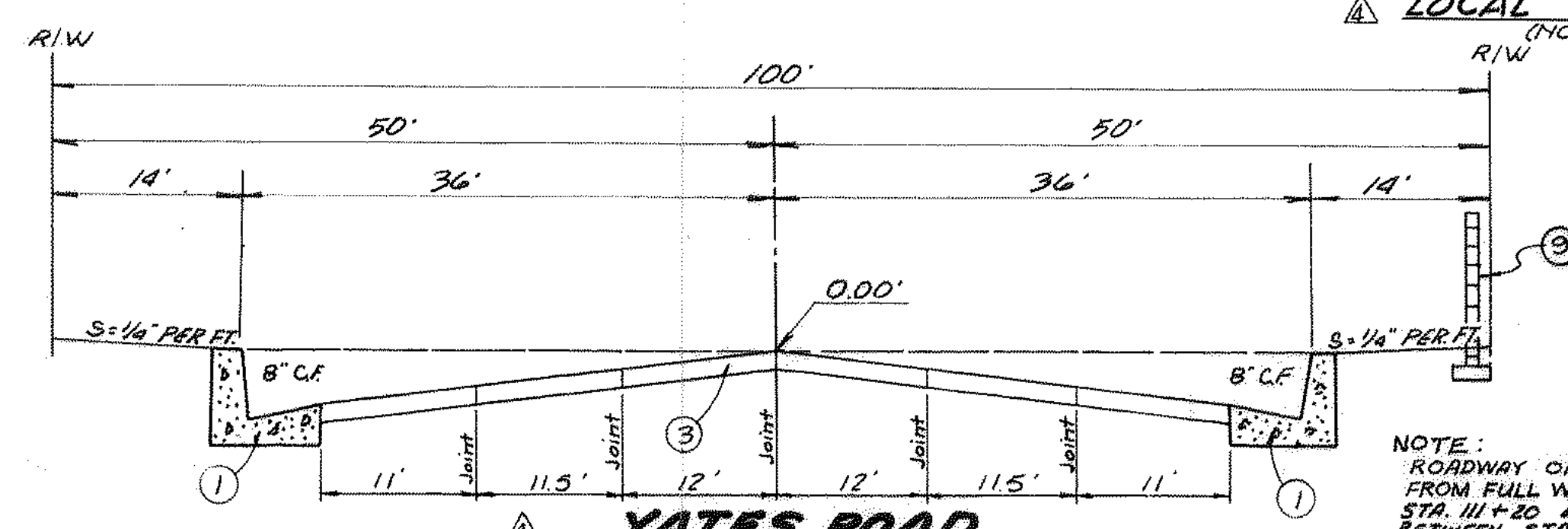


# **APPENDIX H: STORMWATER CONVEYANCE INFASTRUCTURE**





TYPICAL SECTION OF TEMPORARY ROAD  
(SEE SHEET SHT. 30)  
NO SCALE



ROAD STRUCTURAL SECTION TABLE

| STREET NAME        | FROM STA. | TO STA.   | A.C. | A.B. | CLASS | NATIVE R-VALUE |
|--------------------|-----------|-----------|------|------|-------|----------------|
| TAMARISK ROAD      | 23+37.80  | 21+70.11  | 0.17 | 0    |       |                |
| RIDGECREST ROAD    | 83+01.93  | 115+50.0  | 0.25 | 0    |       |                |
| RIDGECREST ROAD    | 115+50.0  | 123+82.33 | 0.25 | 0.30 | 3     |                |
| YATES ROAD         | 104+30.44 | 115+43.84 | 0.25 | 0    |       |                |
| HIDDEN VALLEY ROAD | 118+68.60 | 121+70    | 0.17 | 0    | 3     |                |
| HIDDEN VALLEY ROAD | 121+70    | 167+10.02 | 0.17 | 0    |       |                |
| RANCHO BONITA ROAD | 0+20.50   | 5+92      | 0.17 | 0    |       |                |
| RANCHO BONITA ROAD | 5+92      | 9+80      | 0.17 | 0.35 | 3     |                |
| RANCHO BONITA ROAD | 9+80      | 15+54.27  | 0.17 | 0    |       |                |
| VISTA POINT DRIVE  | 0+30.50   | 13+50     | 0.21 | 0    |       |                |
| VISTA POINT DRIVE  | 13+50     | 22+75.55  | 0.25 | 0    |       |                |
| YELLOWSTONE AVE.   | 58+45     | 59+73.50  | 0.17 | 0    |       |                |
| YELLOWSTONE AVE.   | 60+26.50  | 63+56.50  | 0.17 | 0    |       |                |
| ALTA VISTA DRIVE   | 0+26.50   | 11+34.68  | 0.17 | 0    |       |                |
| STONERIDGE DRIVE   | 0+20.60   | 13+66.82  | 0.17 | 0    |       |                |
| IRONWOOD LANE      | 0+22.50   | 1+75.18   | 0.17 | 0    |       |                |

RIDGECREST ROAD  
NO SCALE

| STREET NAME      | FROM STA. | TO STA.  | A.C. | A.B. | CLASS |
|------------------|-----------|----------|------|------|-------|
| CHINQUAPIN DR.   | 30+02.76  | 32+22.76 | 0.17 | 0    |       |
| PERNELL LANE     | 0+16.50   | 2+46.50  | 0.17 | 0    |       |
| IRONWOOD LANE    | 0+16.50   | 2+46.50  | 0.17 | 0    |       |
| FREMONTIA LANE   | 0+16.50   | 2+46.50  | 0.17 | 0    |       |
| QUAILWOOD LANE   | 0+16.50   | 2+36.50  | 0.17 | 0    |       |
| CHINQUAPIN DR.   | 0+20.50   | 11+80    | 0.17 | 0    |       |
| SAN GABRIEL LANE | 0+16.50   | 6+91.78  | 0.17 | 0    |       |
| SIERRA VISTA DR. | 0+20.50   | 3+84     | 0.17 | 0.35 | 3     |
| SIERRA VISTA DR. | 3+84      | 11+55.02 | 0.17 | 0    |       |
| CRESCENT COURT   | 0+10.50   | 1+68.50  | 0.17 | 0    |       |
| CRESCENT COURT   | 0+20.50   | 2+76.50  | 0.17 | 0    |       |
| HONEYCOMB LANE   | 0+20.50   | 7+76.57  | 0.17 | 0    |       |
| ARBOR LANE       | 0+22.50   | 2+68.50  | 0.17 | 0    |       |
| PALO VERDE LANE  | 0+22.50   | 2+37.50  | 0.17 | 0.35 | 3     |
| EVERGREEN LANE   | 0+26.50   | 6+31     | 0.17 | 0    |       |
| EVERGREEN LANE   | 6+31      | 9+21.28  | 0.17 | 0.60 | 3     |
| CHINQUAPIN DR.   | 11+80     | 12+41.80 | 0.17 | 0    |       |
| CHINQUAPIN DR.   | 12+41.80  | 15+75.18 | 0.17 | 0    |       |
| CHINQUAPIN DR.   | 15+75.18  | 18+35.18 | 0.17 | 0    |       |

- CONSTRUCTION NOTES
- 1. CONSTRUCT CURB & GUTTER PER STD. NO. 115
  - 2. CONSTRUCT ASPHALT CONCRETE PAVING PER TYPICAL SECTIONS THIS SHT.
  - 3. CONSTRUCT CROSS-GUTTER PER STD. NO. 119
  - 4. CONSTRUCT BARRICADE PER STD. NO. 305
  - 5. CONSTRUCT EMBANKMENT PAVEMENT PER STD. NO. 305
  - 6. CONSTRUCT NON-RETAINING CONCRETE BLOCK WALL PER STD. NO. 301
  - 7. CONSTRUCT ASPHALT CONCRETE DIKE PER STD. NO. 117

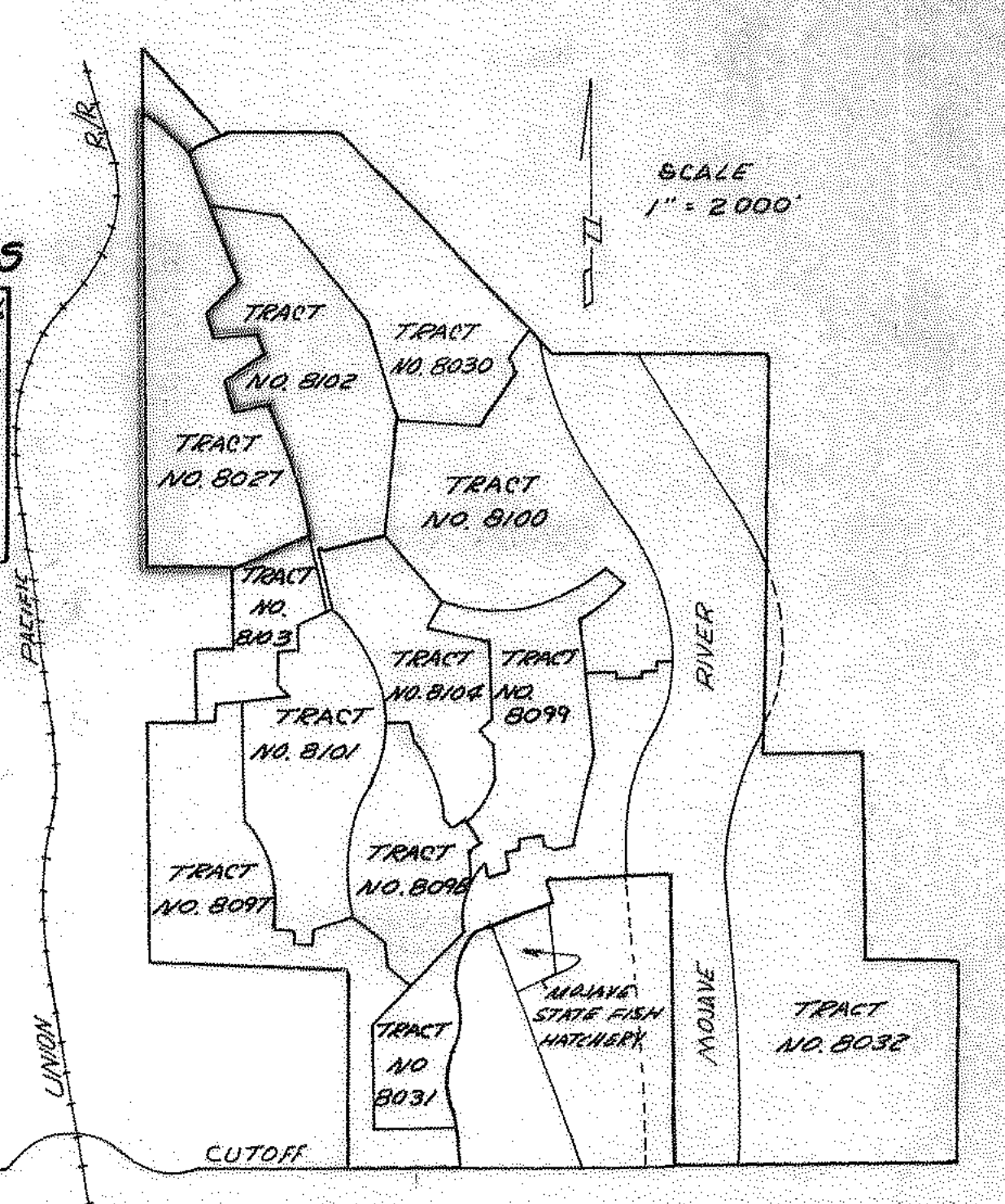
PLANS PREPARED BY:  
McINTIRE & QUIROS INC.  
670 MONTEREY PASS RD.  
MONTEREY PARK, CALIF.

BY: G. M. CUMBEY  
SIGNATURE: [Signature]  
R.E. No. 14997

CLASS III AGG. BASE SPECIFICATIONS

- 1. AGGREGATE GRADATION: \*2 1/2 100% \*4 50-95% \*30 20-65% \*200 3-20%
- 2. SAND EQUIVALENT: 30 MIN.
- 3. R-VALUE: 70 MIN.
- 4. BASE SHALL BE OF SUCH CHARACTER THAT WHEN WET IT WILL COMPACT TO FORM A FIRM, STABLE BASE

- GENERAL NOTES
- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND THE 1966 STANDARD SPECIFICATIONS OF THE COUNTY OF SAN BERNARDINO.
  - 2. PRIMARY BENCH MARK: 0.9 MILE SOUTH OF INTERSECTION OF BEAR VALLEY ROAD AND A.T. & S.F. R.R. 14.2 WEST OF W/RAIL OF W/ TRACK, 11.5' S OF TELEPHONE POLE #1 GE. #1 ELEV. 2983.144
  - 3. AT THE COMPLETION OF PAVING, A MATERIALS REPORT SHALL BE SUBMITTED TO THE CONTRACTS ENGINEER OF THE SAN BERNARDINO COUNTY ROAD DEPT. LISTING ALL TESTS OR DETERMINATIONS COMPLETED TO VERIFY:  
(a) R-VALUE, SIEVE ANALYSIS AND SAND EQUIVALENT OF AGGREGATE BASES.  
(b) STABILITY, OIL CONTENT AND SIEVE ANALYSIS OF ASPHALT SURFACING.
  - 4. A PERMIT WILL BE REQUIRED FROM THE SAN BERNARDINO COUNTY ROAD DEPARTMENT PRIOR TO ANY ENCROACHMENT OR CONSTRUCTION WITHIN THE ROAD DEPARTMENT'S EASEMENTS OR RIGHT OF WAYS.
  - 5. WHEN THE ROADBED HAS BEEN GRADED TO THE APPROXIMATE ELEVATION AND CROSS SECTION AND IS TO RECEIVE A.C. PAVING ONLY, ALL ROCKS AND LUMPS OF EARTH OVER 2 1/2" IN SIZE AND OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM THE UPPER 6" OF THE ROADBED AND DISPOSED OF "IN LIEU OF THE ABOVE REQUIREMENT, THE CONTRACTOR MAY FURNISH AS AN ALTERNATE 2 1/2" OF CLASS 2 AGG. BASE AS A COVER UPON WHICH TO PREPARE THE SUBGRADE
  - 6. WHEN THE BASEMENT MATERIAL IS TO RECEIVE A.C. PAVING ONLY, THE BASEMENT MATERIAL SHALL HAVE A MINIMUM R-VALUE OF --- (FOR THOSE ROADS WITH A.T.I. BETWEEN 4 AND 5, R-VALUE = 70 MINIMUM; ON THOSE ROADS WITH A.T.I. EQUAL TO 5.5 OR GREATER, R-VALUE = 75 MINIMUM.)
  - 7. ALL LOTS SHALL BE GRADED TO PRECLUDE PONDING.
  - 8. STREET MARKERS PER SAN BERNARDINO COUNTY STD. NO. 303 AND NO. 303A SHALL BE CONSTRUCTED AT EACH INTERSECTION.
  - 9. ALL PIPELINES OR SUBSTRUCTURES OF ANY KIND (AND TELEPHONE OR POWER LINES, WATER MAINS, VALVES, HYDRANTS, ETC. SHOWN ON THE PLANS) SHALL BE REMOVED OR RELOCATED AS REQUIRED AT NO COST TO THE SAN BERNARDINO COUNTY ROAD DEPARTMENT.
  - 10. WHEN CURB DEPRESSIONS ARE PROVIDED FOR DRIVEWAYS, COMPLETE DRIVEWAY CONSTRUCTION WILL BE REQUIRED IN ACCORDANCE WITH COUNTY ROAD DEPARTMENT STANDARD DRAWING NO. 128 AND RELATED SPECIFICATIONS.
  - 11. COMPACTION TESTS OF EMBANKMENT CONSTRUCTION, TRENCH BACKFILL, AND ALL SUBGRADES SHALL BE PERFORMED AT NO COST TO SAN BERNARDINO COUNTY; AND A WRITTEN REPORT SHALL BE SUBMITTED TO THE CONTRACTS ADMINISTRATION DIVISION OF THE COUNTY ROAD DEPARTMENT FOR APPROVAL PRIOR TO THE PLACEMENT OF BASE MATERIALS AND/OR SURFACING.
  - 12. TEMPORARY BENCH MARK: TOP 2" P. NORTHEAST CORNER LOT 73 IN TRACT NO. 8097 ELEV. 2878.79
  - 13. R.C.P. WITH RUBBER GASKET JOINTS SHALL CONFORM TO STATE OF CALIFORNIA STANDARD SPECIFICATIONS 65-106.
  - 14. FLOOR OF CATCH BASIN SHALL SLOPE FROM ALL WALLS TO THE OUTLET SLOPE PARALLEL WITH CURB SHALL BE 10 TO 1 FOR X > 10' UNLESS OTHERWISE SHOWN ON PLAN. FOR X < 10' THE UPSTREAM END "V" DEPTH SHALL BE EQUAL TO THE CURB FACE PLUS 12 INCHES UNLESS OTHERWISE SHOWN ON PLAN.
  - 15. TEMPORARY PIPE CLOSURES AT THE ENDS OF LINES "D" & "D-1" WILL BE CONNECTED TO TRACT # 8238 & TRACT # 8103 FUTURE STORM DRAIN SYSTEMS RESPECTIVELY.



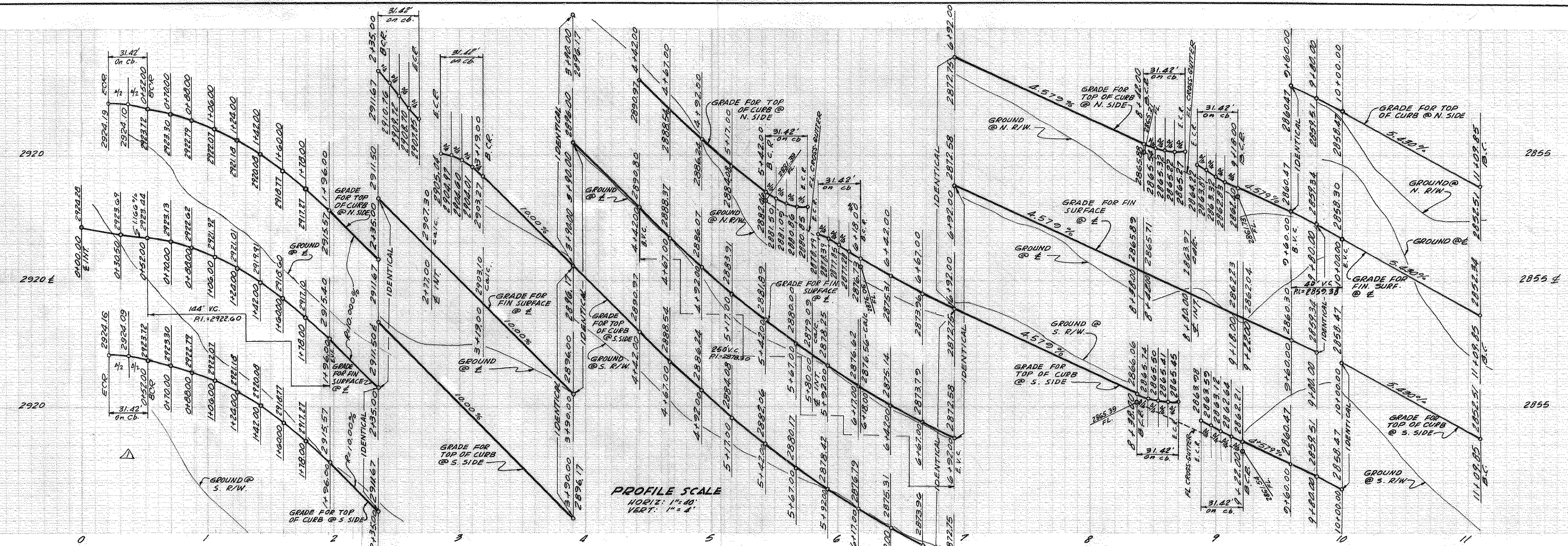
COUNTY OF SAN BERNARDINO  
ROAD DEPARTMENT

DESIGNED BY: [Signature]  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
RECOMMENDED BY: [Signature]  
DATE: [Date]

APPROVED BY: [Signature]  
DATE: [Date]

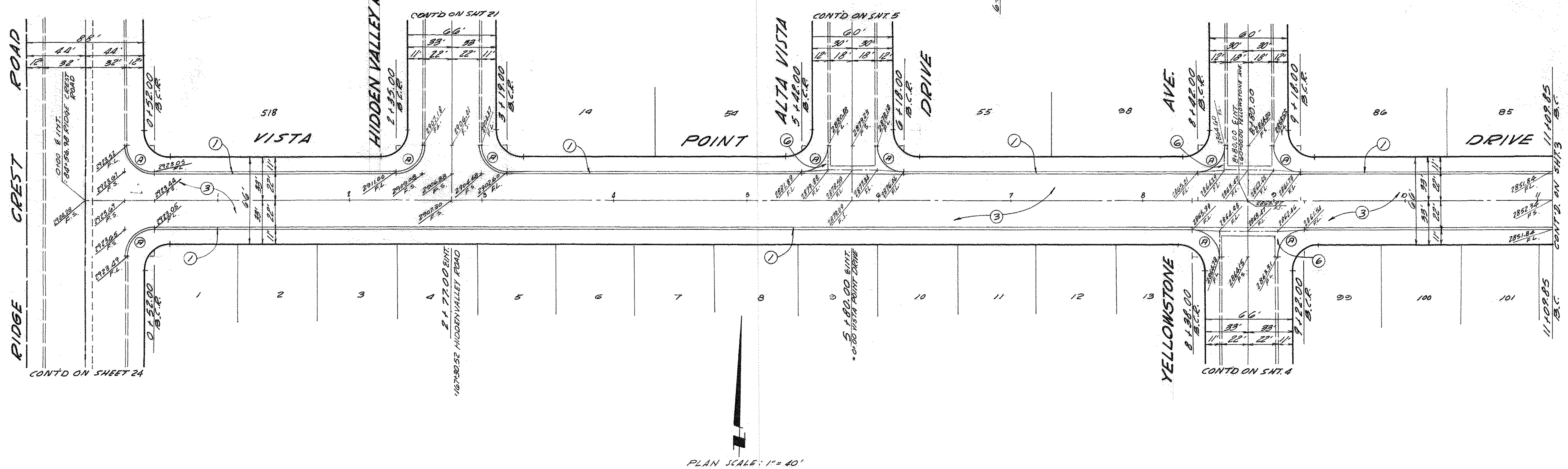
IMPROVEMENT PLANS  
TRACT NO. 8027  
TITLE SHEET

W. O. NO.  
ROAD NO.  
FILE NO.  
SHEET 1 of 35



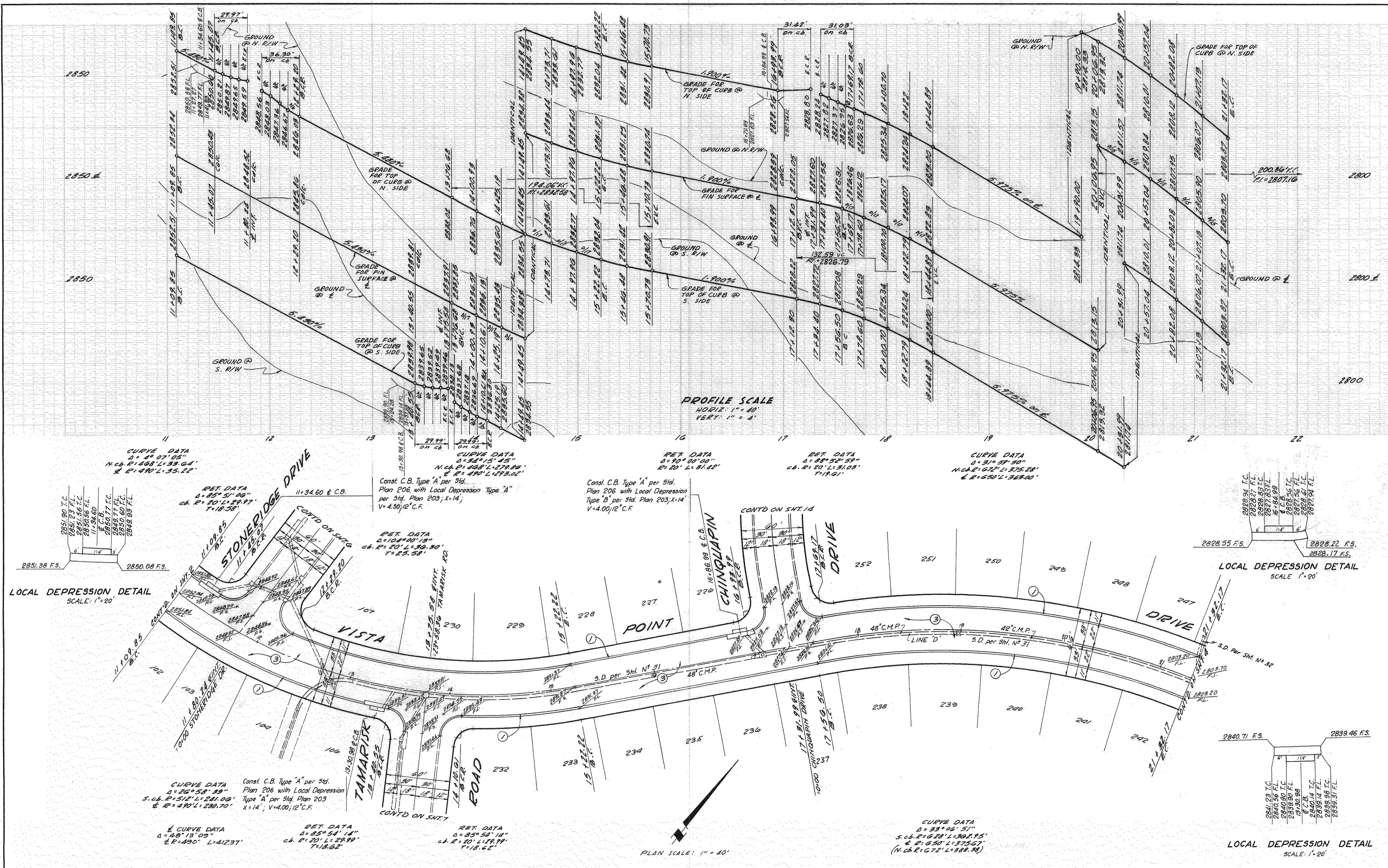
PROFILE SCALE  
HORIZ: 1"=40'  
VERT: 1"=4'

RET. DATA  
Δ = 90° 00' 00"  
cb. R = 20' L = 31.42'



PLAN SCALE: 1"=40'

|                                                                                                                                                                                         |                                                              |           |                                                    |  |                                                                        |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------|----------------------------------------------------|--|------------------------------------------------------------------------|-----------------------------|
| PLANS PREPARED BY:<br><b>McINTIRE &amp; QUIROS INC.</b><br>670 MONTEREY PASS RD. MONTEREY PARK, CALIF.<br><br>BY: <b>G.M. CUMBEY</b><br><br>SIGNATURE: <i>G.M. Cumbe</i> R.E. No. 14297 | FIELD BOOK REF.<br>Δ Revised intersection elevations 2/27/12 |           | COUNTY OF SAN BERNARDINO<br><b>ROAD DEPARTMENT</b> |  | IMPROVEMENT PLANS<br><b>TRACT NO. 8027</b><br><b>VISTA POINT DRIVE</b> | W. O. NO.                   |
|                                                                                                                                                                                         | DESIGNED BY: <i>G.M. Cumbe</i>                               |           | APPROVED BY: <i>G.M. Cumbe</i>                     |  |                                                                        | ROAD NO.                    |
|                                                                                                                                                                                         | CHECKED BY: <i>G.M. Cumbe</i>                                |           | ASSIST. ROAD COMMISSIONER-ENGR. DATE               |  |                                                                        | FILE NO.                    |
|                                                                                                                                                                                         | RECOMMENDED BY: <i>G.M. Cumbe</i>                            |           | COUNTY ENGINEER DATE                               |  |                                                                        | SHEET <b>2</b> of <b>35</b> |
| MARK                                                                                                                                                                                    |                                                              | REVISIONS | APPR. DATE                                         |  |                                                                        |                             |



LOCAL DEPRESSION DETAIL  
SCALE: 1" = 20'

LOCAL DEPRESSION DETAIL  
SCALE: 1" = 20'

LOCAL DEPRESSION DETAIL  
SCALE: 1" = 20'

|                                                                                                        |  |                                                                                                                               |  |                                                                        |  |                                            |  |                             |  |
|--------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------|--|--------------------------------------------|--|-----------------------------|--|
| PLANS PREPARED BY:<br><b>McINTIRE &amp; QUIROS INC.</b><br>670 MONTEREY PASS RD. MONTEREY PARK, CALIF. |  | FIELD BOOK REF.                                                                                                               |  | COUNTY OF SAN BERNARDINO<br><b>ROAD DEPARTMENT</b>                     |  | IMPROVEMENT PLANS<br><b>TRACT NO. 8027</b> |  | W. O. NO.                   |  |
| BY: <b>G.M. CUMBEX</b><br>SIGNATURE: <i>G.M. Cumbex</i> R.E. No. 14297                                 |  | DESIGNED BY: <i>G.M. Cumbex</i><br>CHECKED BY: <i>G.M. Cumbex</i><br>RECOMMENDED BY: <i>G.M. Cumbex</i> CHIEF DESIGN ENGINEER |  | APPROVED BY: <i>[Signature]</i><br>ASST. ROAD COMMISSIONER-ENGR. DATE: |  | <b>VISTA POINT DRIVE</b>                   |  | ROAD NO.                    |  |
| MARK                                                                                                   |  | REVISIONS                                                                                                                     |  | APPR. DATE                                                             |  | COUNTY ENGINEER                            |  | DATE                        |  |
|                                                                                                        |  |                                                                                                                               |  |                                                                        |  |                                            |  | SHEET <b>3</b> of <b>35</b> |  |